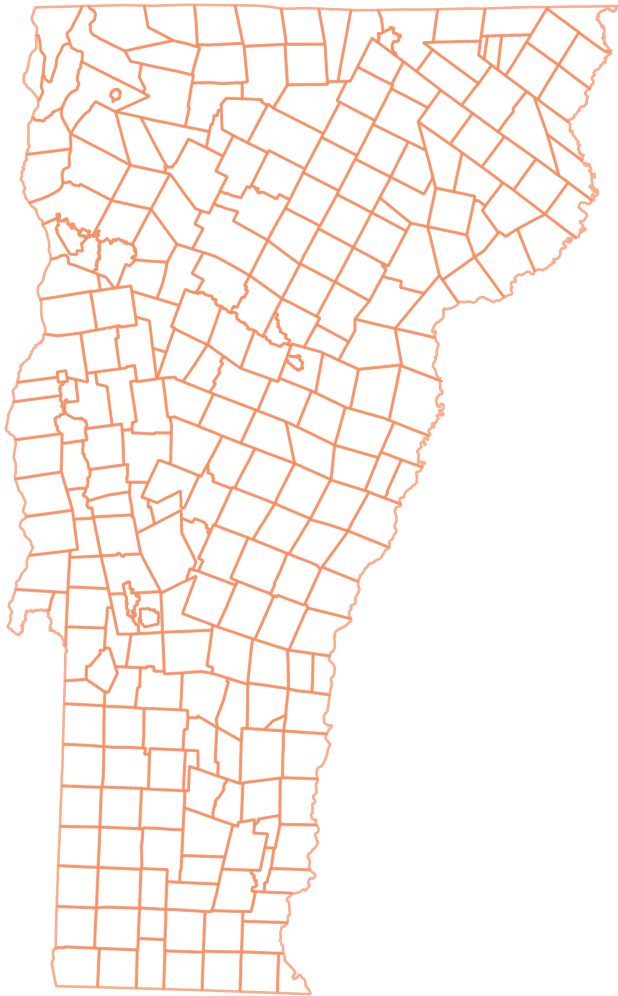


# AT-THE-READY

2020 Consultant Engineering  
Services for Municipalities



# CONSTRUCTION INSPECTION



626234X  
March 9, 2020

Nydia Lugo, Technical Development Engineer  
Municipal Assistance Bureau  
Agency of Transportation  
219 North Main Street  
Barre, VT 05641

**Subject: VTrans At-the-Ready Consultant Engineering Services for Municipalities – Construction Phase Services**

Dear Ms. Lugo and Members of the Selection Committee,

DuBois & King (D&K) is pleased to submit ten (10) paper copies and one (1) electronic copy of our Technical Proposal in response to your February 6, 2020, Request for Qualifications for At-the-Ready Consultant Engineering Services for Municipalities (ATR). Please consider the following information as you review our proposal.

For more than 100 projects, D&K has provided scoping, design, municipal project management, and/or construction phase services for Municipal Assistance Bureau projects since the program's inception in the 1990s. D&K regularly leads projects receiving grants from the State of Vermont, FHWA, FEMA, FAA, and EPA throughout Vermont and New England.

D&K's staff of 130 engineering professionals, based primarily in Vermont, are available to serve this contract. D&K has a clear understanding of the requirements of federally-funded, municipally-managed transportation projects and the needs of municipal governments ranging in size from Vermont's smallest town to its largest city. Our staff maintain positive working relationships with Vermont's regional planning commissions and the regulatory community. We are committed to providing qualified, well-equipped, experienced, and responsible professionals who provide high-quality services on a consistent basis.

D&K has dedicated planning, design, and construction professionals who have provided services on hundreds of projects throughout Vermont over our 58-year history. Our construction management experience includes roadway/highway reconstruction, paving and pavement management, bridges, intersections, culverts, dams, water/wastewater, sidewalks/pathways, historic facilities, utility reconstruction and replacement, stormwater, riverbank and slope stabilization, vertical construction, and site improvements.

D&K's team includes multidisciplined in-house personnel supported by familiar specialty firms that address the needs of municipal projects. We appreciate your consideration of our qualifications and look forward to continuing to support Vermont municipalities on state and federally-funded transportation and infrastructure improvement projects. We would be pleased to answer any questions you may have. Please do not hesitate to give me a call at 802.728.3376 or contact me via email at [cgoodling@dubois-king.com](mailto:cgoodling@dubois-king.com).

Sincerely,  
**DuBois & King, Inc.**

Charles K. Goodling, PE  
Contract Manager



# Introduction to the Consultant Firm

Established in 1962, DuBois & King (D&K) is a Vermont-based consulting engineering firm with 130 professional engineers, planners, designers, surveyors, technicians, environmental and permitting specialists, and support personnel. As described in the following pages, the firm maintains an experienced Construction Department with staff who have provided observation and administration for dozens of MAB projects and numerous additional federally-funded transportation and infrastructure projects with identical construction requirements and standards.

## Contact Information

DuBois & King, Inc., 28 North Main Street, Randolph, VT 05060; Chuck Goodling, PE, 802.728.3376, [cgoodling@dubois-king.com](mailto:cgoodling@dubois-king.com)



# Construction Inspection

Contract Administration | Receipt of Bids | Construction Administration | Construction Observation | Change Orders | Submittals | Records Maintenance | Field Directives | Periodic Progress/Budget Reports | Substantial and Final Completion | Cost Estimating | Grant Administration | Record Drawings | Testing Oversight



D&K provides construction administration, bid phase, and observation/resident engineering services for projects designed by the firm and for projects designed by others. As the owner's representative, D&K field staff operate as the liaison between the owner and the contractor to obtain contractor adherence to project design, schedule, and budget. Services are provided to municipal, federal, state, institutional, and commercial clients for a range of projects including roadways, sidewalks, bridges, dams, wastewater facilities, airports, stormwater, and site improvements.



# Subconsultant Partners

## WSP Global, Inc.

**Construction Observation.** D&K is partnering with WSP to provide Vermont municipalities with a deep bench of qualified and experienced resident project representatives who will be available to provide full- and part-time construction observation services as required.



D&K collaborated with WSP's Gordy Eastman on recent rail culvert replacement projects in the Champlain Valley.

**Public Outreach.** D&K's subconsultant partner, WSP, brings a team of highly skilled public outreach professionals to serve projects of varying size and scope across Vermont. WSP's comprehensive public outreach approach focuses on providing accurate and timely project information to stakeholders and the general public. To achieve this, the firm creates targeted stakeholder and media lists, coordinates with local officials, and distributes weekly Construction Updates, media alerts and intermittent project announcements, as needed. To enhance public understanding of projects, WSP's team creates flyers, presentations, fact sheets, maps and brochures and has extensive experience developing user-friendly websites and social media content. The team will coordinate, plan, promote and facilitate stakeholder and public meetings. For projects requiring these services, WSP will serve as the first point of contact for the public and coordinate with the project team to address any questions and concerns promptly.

The team members from WSP are trusted and local and have a history of successful project communication across Vermont. Recent VTrans projects include Colchester I-89 Bridges, Waterbury-Stowe Route 100 Reclamation, and Exit 16 Diverging Diamond Interchange.

As MPM for Burlington's Champlain Parkway, D&K is working with WSP staff who are providing public involvement and construction phase services for this project. WSP is also providing Public Involvement Services on the Smugglers' Notch Scenic Highway project for which D&K is the prime consultant.

## S. W. Cole Engineering, Inc.

**Materials Testing.** Established in 1979 in Bangor, Maine, S. W. Cole is a geotechnical engineering, geo-environmental consulting, and construction materials testing firm with offices in Vermont, New Hampshire, Maine, and Massachusetts. S. W. Cole's team of engineers, scientists, and technicians provides services on more than 1,800 projects each year. S. W. Cole's certified technicians provide field and laboratory testing for soil, concrete, masonry, steel, fireproofing and asphalt construction materials, including:

- Construction QA/QC Programs and Monitoring
- Earthwork Observations and Compaction Testing
- Reinforced Concrete Testing and Special Inspections
- Soil/Aggregate Sampling and Testing
- Structural Masonry Testing and Special Inspections
- Structural Steel Testing and Special Inspections
- Spray-Applied Fireproofing Testing and Special Inspections
- Pavement Evaluation and Testing
- IBC Special Inspection Coordination
- Slab Flatness and Moisture Testing

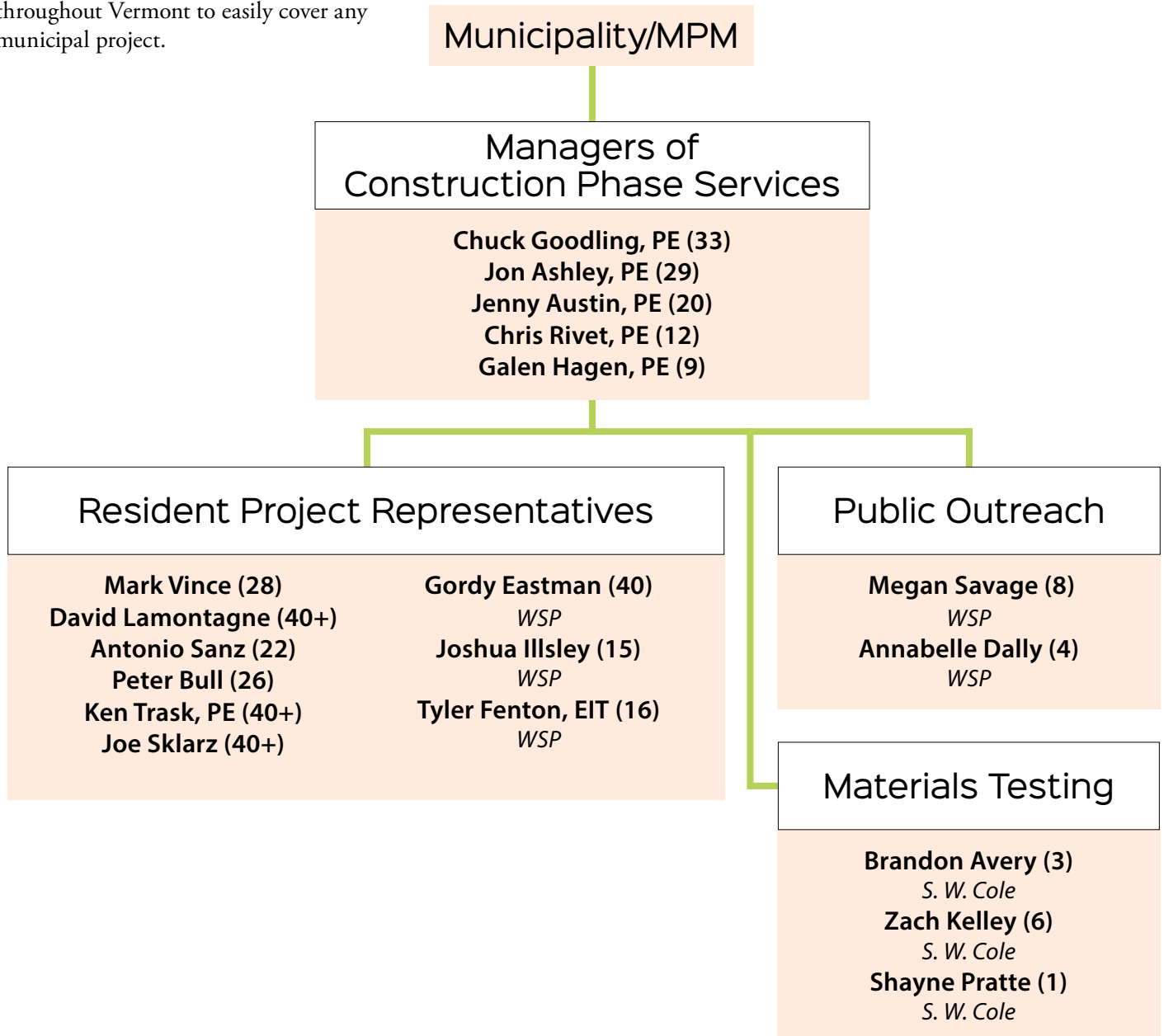


S. W. Cole and D&K worked closely together on the recent \$20M US Route 7 Segment 6 project in downtown Brandon.

# Organizational Chart

Following are the key staff available for municipal projects. Years of experience are listed in parentheses following each staff member's name.

The D&K team's RPRs are located throughout Vermont to easily cover any municipal project.



## Availability Chart

Below is an overview of staff availability based on typical levels of effort for construction projects. Typically, field staff will be dedicated to the project throughout its duration (up to 100% of time). The assigned manager of construction phase services will typically provide administration services up to 25% of the time. These levels will be adjusted to suit the needs of a particular project.

The Resident Project Representatives presented typically work on Vermont municipal infrastructure projects 100% of the time.

Staff Member Name	Position	Availability %
Charles Goodling, PE	Manager, Construction Phase Services	25
Jon Ashley, PE	Manager, Construction Phase Services	25
Jenny Austin, PE	Manager, Construction Phase Services	25
Chris Rivet, PE	Manager, Construction Phase Services	25
Galen Hagen, PE	Manager, Construction Phase Services	25
Mark Vince	Resident Project Representative	100
Peter Bull	Resident Project Representative	100
Antonio Sanz, Jr.	Resident Project Representative	100
Ken Trask, PE	Resident Project Representative	100
Joe Sklarz	Resident Project Representative	100
Gordy Eastman	Resident Project Representative	100
Joshua Illsley	Resident Project Representative	100
Tyler Fenton, EIT	Resident Project Representative	100
Megan Savage	Public Information Officer	10
Annabelle Dally	Public Information Officer	10
Brandon Avery	Materials Testing Technician	10
Zach Kelley	Materials Testing Technician	10
Shayne Pratte	Materials Testing Technician	10

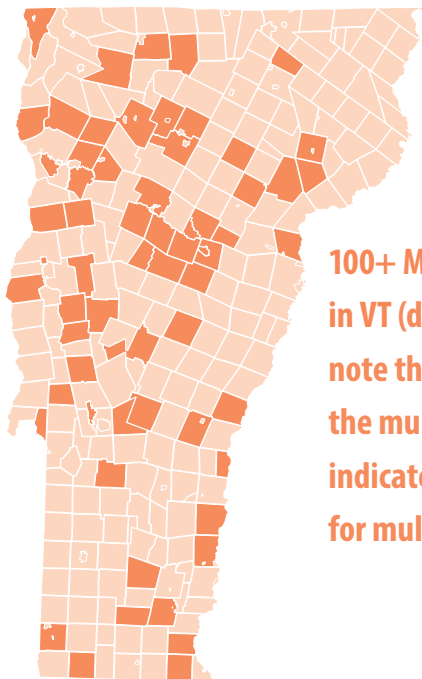




## Qualification and Experience of the Firm

DuBois & King (D&K) has been providing construction administration, resident engineering and related services to VTrans for many years, including dozens of successful projects administered through the Municipal Assistance Bureau (MAB) since the program's inception. Over this period, D&K's Construction Department has developed and expanded a team of qualified Resident Project Representatives (RPRs) who have practical experience with the specific requirements of the MAB program as identified in the "Construction (Phase C)" section of the MAB Local Projects Guidebook. D&K has a clear understanding of the requirements and expectations for delivering construction inspection services on MAB projects. A description of our understanding follows.

### Municipal experience:



**100+ MAB projects in VT (dark shading, note that many of the municipalities indicated selected D&K for multiple projects)**

- **50+ federally-funded municipal projects in New Hampshire and Maine.**
- **Municipal projects constitute the largest share of D&K's work.**

## Construction Phase Services Understanding

**Upon selection**, D&K will: initiate the following activities:

- **Review the Contract Documents.** Obtain and review a copy of the Contract Documents in order to understand the scope and duration of the project, the type of construction activities involved, materials testing requirements, and any special conditions or permit-related requirements specific to this project.
- **Draft a Scope of Services.** Develop a draft scope of services and corresponding budget for review with the client, Municipal Project Manager (MPM), and VTrans representative.
- **Select the most qualified RPR.** D&K will review its list of inspectors and match the experience and skills of an individual with the project-specific requirements.

Once concurrence has been reached with all parties and the engineering services agreement has been executed, D&K will initiate services. The MAB Local Projects Guidebook requires the construction inspection firm to be on board prior to the preconstruction meeting.

Based on our experience on past MAB and transportation improvement projects, D&K has a strong understanding of construction-related items that we will manage right from the onset of the construction phase through to successful project completion:

**Project Communications and Documentation.** D&K's approach to a successfully constructed project stresses good documentation and clear lines of communication. A typical scope of work includes biweekly Construction Status Meetings during the construction period to review project status and address current issues. Our RPR will attend these meetings along with our Construction Manager, the contractor, representatives from the municipality, and other interested project parties. D&K's RPR will record and distribute meeting minutes. It is expected that less formal project coordination meetings, which will be attended by our RPR will occur on site on a more frequent basis.

**Schedule.** The D&K RPR will make sure that the project schedule is updated by the contractor on a biweekly basis and will maintain frequent communications with the MPM.

### Erosion Prevention and Sediment Control (EPSC).

Our RPR will become familiar with any project-specific erosion/sediment control requirements. The contractor will be instructed to address deficient erosion control measures observed as construction proceeds.

**Vehicular and Pedestrian Traffic Control.** Most projects are located in or near roads, intersections, and/or pedestrian areas, and will temporarily impact the traveling public. The Contract Documents will require the contractor to maintain vehicular traffic during the construction period, monitoring and limiting pedestrian movement through the construction site, and maintaining access to adjacent properties. The safety of pedestrians, cyclists, and motorists during construction will be addressed through the implementation, maintenance, and monitoring of the contractor's pedestrian and traffic control plan. Traffic control is to be accomplished through the implementation of MUTCD and VTrans standards.

**Materials Sampling and Testing.** D&K's RPR is responsible for arranging the required testing for the project by an independent qualified laboratory. The D&K team includes the services of S. W. Cole Engineering to provide the required materials testing services which are typically outlined in the Contract Documents. Our RPR will observe required testing and review test results in accordance with the VTrans Material Sampling Manual.

**Field Measurements.** Calculations and verification of final contract quantities will be accomplished by actual field measurements. D&K's RPR will make field measurements of all appropriate pay items. We will assist in making sure that quantities/costs are being tracked properly to allow efficient review and contractor payment. These are to be a daily responsibility of the RPR with direct communication with the contractor.

**Contractor Applications for Payment:** The Contract Documents provide for contractor payment for installed and accepted work on a biweekly interval. Reviewing payment applications is important and requires careful review and oversight by D&K. Our RPR will work with the contractor's superintendent to reach concurrence on the quantity installed for each pay item during the payment period. These quantities are summarized on an application for payment form and include a statement from the contractor that the work covered in the application for payment has been performed in accordance with the Contract Documents. Each payment application will be accompanied by a cover sheet documenting that Materials Acceptance Requirements have been satisfied for each pay item. Chuck Goodling will confirm that the appropriate

certifications have been received, that material testing indicates conformance, and/or if a particular item appears on the Pre-Approved Products List. Once everything is in order, D&K will forward the payment application to the MPM with the D&K's recommendation for payment.

**Record Drawings.** D&K's RPR will maintain a set of plans for the project to record changes in the design and record drawing conditions, to reflect field conditions encountered and approved change orders. These plans will be maintained on site, with record information from the contractor, to be presented to the municipality as a record of the constructed project upon completion.

**Responsibilities of the Design Engineer.** It is important that the Design Engineer be involved during the construction phase to provide engineering services as needed.

## Selected on-call experience:

### At-The-Ready Design and MPM Services

### Town/City Engineer ~ 10 municipalities

### CCRPC on-call services

### CVRPC on-call services

### TRORC on-call services

### VTrans

- Roadway & Safety
- Structures
- Policy & Planning
- Highway Resurfacing
- Rail
- ROW & Boundary Survey
- Gen'l. Environmental
- Aviation
- Biological Services
- Program Development
- Covered Bridges
- Operations
- Stormwater
- Civil Engineering Consultant
- Environmental Consulting & Resource Services

### FEMA-related Master Services Agreement

- Mendon: ~ 10 projects
- Royalton: ~ 15 projects

## Example Projects

*Following are summaries of relevant projects completed by DuBois & King.*



## US 7 Segment 6 Town of Brandon

### Largest MAB project built to date

D&K led construction administration and observation for a \$20M roadway, streetscape, and utility reconstruction project and staffed the project with seven full-time employees over three years. Led drone observation provided by others. **Key Staff:** Chris Schmelzenbach, Mark Vince, Tim Chase, Zach Cook, Al Defelice, Peter Bull, Taylor Craven, Chuck Goodling

- Roads and Sidewalks
- Water/Sewer
- Stormwater
- Lighting
- 10K vehicles per day
- > 100 abutters

**Contact:** David Atherton, Town Manager; 802.247.3635 ext. 210; datherton@townofbrandon.com



## Lamoille Valley Rail Trail West Danville-St. Johnsbury

### MAB Process 15.3-mile shared use path

D&K led construction administration and observation for project that converted an unused rail corridor to a 4-season multiuse path. **Key Staff:** Chuck Goodling

- Clearing
- Grading
- Ditching
- Bridges and Culverts
- Rail
- Landscaping

**Contact:** Cindy Locke; VAST Executive Dir.; 802.229.0005 x.11; cindy@vtvast.org



## Central Street Bridge Town of Brandon

### MAB Process c. 1867 stone bridge rehabilitation

D&K led construction administration and observation for a project that includes historically appropriate structural improvements and sidewalk replacement. This project was completed in close coordination with the US 7 Segment 6 project. **Key Staff:** Mark Vince, Chuck Goodling, Chris Schmelzenbach

- Sidewalks
- 10K vehicles per day
- Historic Preservation

**Contact:** David Atherton, Town Manager; 802.247.3635 ext. 210; datherton@townofbrandon.com





## Overflow Culvert Town of Brandon

**FEMA HMGP Funding**  
278-ft-long, 6-ft-high, precast culvert

D&K led construction administration and observation for a new culvert that relieves pressure from an adjacent large, stone arch bridge and properties for storms up to the 500-year event. **Key Staff:** Chris Schmelzenbach, Chuck Goodling

- Precast Concrete
- Utility Coordination
- Complex routing
- 10K vehicles per day
- Extensive ledge removal

**Contact:** David Atherton, Town Manager; 802.247.3635 ext. 210; datherton@townofbrandon.com



## VT 66 Reclaim VTrans, Randolph

**VTrans Project Development Process**  
7-mile roadway reconstruction

D&K led construction administration and served as Chief Inspector for a VTrans highway project between Randolph and Randolph Center. **Key Staff:** Chuck Goodling, Mark Vince

- Bridges and Culverts
- Guardrail and Signs
- Intersections
- New Traffic Patterns
- Banking upgrades
- 6.5K vehicles per day

**Contact:** Mark Mackintosh, Regional Construction Engineer; 802.786.0023; mark.mackintosh@vermont.gov



## VT 100/US 2 Roundabout Town of Waterbury

**MAB Process**  
Stop control to roundabout upgrade

D&K led construction administration and observation for an intersection project that also enhanced parking, sidewalks, and the streetscape. **Key Staff:** Chuck Goodling, Chris Schmelzenbach, Zach Cook, Peter Bull

- Water/Sewer
- Parking
- Drainage
- Lighting
- Jack-and-bore
- 12K vehicles per day

**Contact:** William Shepeluk; 802.244.7033; wshepeluk@waterburyvt.com



## Stormwater System Upgrade City of Barre

**FEMA HMGP Funding**  
1,100 ft of collection system

D&K led construction observation and design for a project that enhances the stormwater collection system along Granite Street.

**Key Staff:** Chuck Goodling, Ken Trask

- Closed Drainage
- Roadway
- River Outfall

**Contact:** Steve Mackenzie, PE, City Manager; 802.476.0221; manager@barrecity.org



## Bethel Mt. Road and Slope Town of Rochester

**FHWA ER Funds**  
2,800 ft of roadway reconstruction

D&K provided full-time construction administration and observation as well as design. An April 15, 2019, a storm event rendered the road unusable and construction was completed on October 11, 2019. **Key Staff:** Chuck Goodling, Antonio Sanz, Joe Sklarz

- 6 Slope Rebuilds
- Ditching
- Stormwater
- Emergency Repair

**Contact:** Joan Allen, Selectboard Assistant; 802.767.3631; rochesterassistant@comcast.net



## Creek Road Sidewalk, Roadway, and Slope Town of Middlebury

**MAB Process**  
1,600-ft roadway, 1,500-ft sidewalk

D&K led construction administration and observation for a project that improves sidewalks, drainage, roadways, and slope stability in a mixed-use area. **Key Staff:** Chuck Goodling, Chris Schmelzenbach, Taylor Craven

- Sidewalks
- Crossings
- LID Stormwater
- Roadway Reconst.
- Slope Protection

**Contact:** Dan Werner, Director of Public Works; 802-388-4045; dwerner@townofmiddlebury.org



## Management Staff

**Chuck Goodling, PE, Manager of Construction Phase Services** is a civil engineer with 33 years of experience and a Principal of the firm in responsible charge of D&K's Construction Department. Chuck's experience includes:

- Management of over 20 MAB projects
- Management of three successive VTrans on-call contracts for construction phase services
- Experience working on projects in all 8 VTrans Maintenance Districts
- Experience providing and managing design, permitting assistance, and construction administration and observation for municipal projects.

**Jon Ashley, PE, Manager of Construction Phase Services**, has 29 years of environmental and civil engineering experience. As Director of D&K's Public Works Division, Jon's experience includes planning, management, and design of water and sewer projects, hazardous waste and brownfield remediation, road and slope projects, stormwater collection and treatment, and site/civil development projects for municipal, state, local, and private clients. He is currently project manager and municipal project manager for multiple concurrent MAB projects.

**Jenny Austin, PE, Manager of Construction Phase Services**, has 22 years of experience providing management and design for civil engineering projects. Jenny has worked on a range of projects, including Municipal Project Manager services on VTrans MAB projects including serving as assistant MPM for one of the largest MAB projects completed to date. She has provided construction administration for a range of sidewalk, roadway, and utility projects throughout Vermont.

**Christopher Rivet, PE, Manager of Construction Phase Services**, has 11 years of civil/site engineering experience with a focus on stormwater. His project expertise includes the design, construction, and compliance inspection of stormwater management systems throughout Vermont. His construction experience includes sites, salt sheds, parking, roadway, landfill and utility projects. As project manager for concurrent ongoing MAB projects, he is fluent in the delivery of municipal projects receiving federal and state funds.

**Galen Hagen, PE, Manager of Construction Phase Services**, has nine years of professional experience providing construction administration, inspection, field checks, design, stakeholder coordination, permitting, and

evaluation for municipal public works and transportation infrastructure projects. His recent experience includes managing the construction phase services for a MAS sidewalk project in Underhill, water system improvements for the Town of Proctor, and a fast-tracked slope, roadway, and drainage repair project for the Town of Rochester.

## Resident Project Representatives

**Mark Vince (28 years of experience)** has experience with VTrans as a district highway technician and a geodetic survey technician. He has experience with highway projects and layouts; has supervised many district paving projects, culvert replacements, and small bridge rehabilitation projects; and has experience working with local contractors. Mark is knowledgeable of MUTCD and VOSHA/OSHA construction practices and VTrans standards specifically for guardrail and highway access.

**David Lamontagne, (40 years of experience)** has hands-on knowledge that covers high-profile and secure federal government buildings and facilities, transportation and site work, and commercial projects, including surveying, excavation, sheeting and shoring, foundations, building structure, piping systems, heavy electrical, ventilation, atmospheric controls, mechanical and security systems, and digital and analog telemetry systems.

**Antonio Sanz, Jr., (22 years of experience)** has provided construction observation for supporting water resources and MAB infrastructure assignments at DuBois & King. These projects include dams, river embankments, roads and bridges, facilities, and on-site wastewater disposal systems. As Resident Project Representative, Antonio is responsible for observation, review of technical specifications, data collection, and performing construction observation.

**Peter Bull (28 years of experience)** provides expertise in field engineering, design, and observation of civil projects for the VTrans, the New Hampshire Department of Transportation (NHDOT), and local municipalities. His observation experience has ranged from safety improvements to construction of roadway and bridges. He was previously employed as a construction inspector for NHDOT, where his responsibilities included layout of new interstate, full-depth reclamation of I-89 and layout of curbing and drainage.

**Ken Trask, PE, (40+ years of experience)** has expertise in the planning, designing, construction and operation of water and wastewater projects. He has been responsible for all phases of wastewater collection and treatment; sludge handling, treatment and disposal; water treatment, distribution and storage; and stormwater and CSO management. Ken's responsibilities include preliminary evaluation of problems; develop solutions, prepare and review construction plans and specifications, troubleshooting with operators and construction administration.

**Joe Sklarz (40+ years of experience)** has been involved in the field of construction on a variety of projects in the New England area, including roadways and sidewalks, buildings, water and wastewater collection systems and pump stations, site development, drain line installations, utility facilities, and many others. He has held positions as site development project manager, resident engineer, project superintendent, construction engineer, and cost estimator.

**Gordy Eastman (WSP, 45 years of experience)** brings significant expertise providing construction inspection, supervision and management on state and municipal projects. His experience includes survey layout and quality control, supervising trades, coordinating subcontractors, and managing all phases of projects from planning, scheduling to construction and closeout. Gordy thoroughly understands VTrans standard specifications.

**Joshua Illsley (WSP, 15 years of experience)** is experienced in bridge, highway and building construction. His responsibilities have included quality control and construction inspection, document control, construction project field administration, and project documentation that included progress reporting and preparation of final contract documents. Josh is fluent in the use of MS Office, Site Manager/APPIA, and Doc Express software packages.

**Tyler Fenton, EIT (WSP, 16 years of experience)** is a civil engineering graduate with construction engineering, inspection, documentation, and administration experience. Comfortable as part of team, or as sole site representative, Tyler started his career with the New Hampshire Department of Transportation and has overseen, inspected and documented bridge, roadway and paving and streetscape projects, from groundbreaking through closeout.

## Public Outreach

**Megan Savage (WSP, 8 years of experience)** is a Public Information Officer with experience in public engagement, marketing and event planning. She is regularly responsible for providing informative updates on design details and construction impacts incurred by the public while fostering an open dialog between the two parties. She works closely with clients to ensure the proper message and tone is presented to the public to create a clear understanding of the project's goals through the planning, design and construction process, aiding the community's understanding of the expected benefits and outcomes following completion of the project.

**Annabelle Dally (WSP, 4 years of experience)** is a Public Information Officer involved in public outreach efforts in Vermont supporting communications and public involvement staff with stakeholder outreach, presenting at public forums, and serving as the main public contact.

## Materials Testing

**Brandon Avery (S. W. Cole, 3 years of experience)** Brandon Avery joined S. W. Cole as a technician in the White River Junction office. Brandon's responsibilities at S. W. Cole include soil density testing, asphalt testing, concrete testing, and associated laboratory testing. Prior to his employment at S. W. Cole, he worked as a surveyor for Geomatics and Kevin Hall Surveying in New York. He has 4 years of welding and CNC operation experience.

**Zach Kelley (S. W. Cole, 6 years of experience)** joined S. W. Cole in 2019 as a Technician in the White River Junction office. Zach has previous experience working as a dispatcher, quality control technician, and plant manager for a concrete company. Zach's responsibilities include soil density testing, concrete testing, and associated laboratory testing.

**Shayne Pratte (S. W. Cole, 1 year of experience)** joined S. W. Cole in 2019 as a Technician in the White River Junction office. Shayne has previous experience working as a carpenter, and he served in the United States Air Force. Shayne's responsibilities include soil density testing, concrete testing, and associated laboratory testing.



**Education:** B.S., Civil and Environmental Engineering, Utah State University, 1984;  
A.A.S., Ecology & Environmental Technology; Paul Smiths College, 1981

**Registrations:** Civil Engineering: VT

**Construction Phase Services, US Route 7 Segment 6, Brandon, VT.** Principal-in-Charge for full-time construction administration and observation services on a \$20M roadway/utilities improvement project in the heart of downtown Brandon. The project includes reconstruction of more than a mile-long section of US Route 7 roadway, all associated intersections and two parks. D&K is providing four full-time construction inspectors to support the improvements. The project was developed through the Municipal Assistance Bureau (MAB) of VTrans.

**Construction Inspection, Waterbury Roundabout, Waterbury, VT.** Manager of Construction Phase Services for a new vehicular roundabout at the intersection of US Route 2 and VT Route 100. This \$3.9M project included: modification and rehabilitation to existing bridges for roadway and pedestrian accommodation; partial and complete roadway reconstruction; imprinted island construction; stormwater management; parking reconfigurations and improvements; new sidewalks, curbing, crosswalks, and signage; undergrounding of utilities (electrical and communications); replacement and extension of water and sewer mains; and lighting, landscaping, and streetscaping. Monitored construction and traffic control and coordinated regularly with state agencies, municipality, contractor, and design engineer.

**Farr Road Extension Project, Waterbury, VT.** Manager of Construction Phase Services for a project which extends Farr Road 590 ft from beneath the north and southbound interstate bridges to a new intersection on US Route 2. The project also included removal of Town Bridge #25 (a steel truss bridge), which crossed over the Little River, and partial removal of the west abutment. The project was developed through the Municipal Assistance Bureau (MAB) of VTrans.

**Construction Phase Services, Barre Big Dig, Barre, VT.** Manager of Construction Phase Services for reconstruction of sewer, water, drainage, roadway, sidewalks, traffic signals, and overhead signing. This project also included streetscape enhancements such as new ornamental street lighting, granite bollards, street trees, bike racks, benches, and decorative sidewalk treatments. The most challenging aspect of this project was to construct the 30-inch sewer pipe, 11 ft below grade, in a higher-than-expected water table, while not disturbing the existing infrastructure.

**Construction Inspection Services, Pulp Mill Bridge Road and Seymour Street Sidewalk, Middlebury STP BP 14(8), Middlebury, VT.** Principal/Construction Manager for construction phase services for the installation of new sidewalk at two locations. D&K provided inspection of Pulp Mill Bridge Road and Weybridge Road, extending approximately 2,300 LF along Pulp Mill Bridge Road. Additional sidewalk section extends approx. 700 LF from the intersection of Seymour Street and Seymour Street Extension. The VTrans MAB project includes construction of new concrete sidewalk, granite curbing, drainage improvements, signage, a retaining wall, surface restoration and related improvements

**Creek Road Sidewalk and Road Reconstruction Project, Middlebury, VT.** Principal-in-Charge for construction observation and administration for construction of a 5-foot-wide concrete sidewalk, drainage improvements, and roadway reconstruction project. Funding for the sidewalk was administered by the VTrans Municipal Assistance Bureau. The roadway reconstruction component was completed using municipal funds

**VAST Lamoille Valley Rail Trail Construction Observation, St. Johnsbury and Danville, VT.** Manager for Construction Observation services for construction of 15.3 miles of the Lamoille Valley Rail Trail. Project administered by VTrans LTF Section and partially funded by VAST.

**Project Manager, Construction Observation Services, VTrans, Statewide, VT.** Project Manager for successive retainer contracts with VTrans to provide consultant construction observation services. Chuck served as the point of contact for the District Engineers for assignments under this retainer contract. He allocated and assigned inspectors for VTrans projects and provided management review of D&K's services.



**Jon Ashley, PE**  
Manager of Construction Phase Services

Years of Experience: 29

Years with D&K: 6

**Education:** B.S., Environmental Engineering, Rensselaer Polytechnic Institute, 1992; M.S. Course, Advanced Hydrology, Kansas State University, 2001; M.S. Course, Physical and Chemical Hydrogeology, University of Massachusetts, Lowell, 1996; M.S. Courses, Wastewater Treatment and Engineering; Open Channel Hydraulics, University of New Haven, Connecticut, 1994-95

**Licenses and Certifications:** Professional Engineer: VT 7350, NH 9709, NY 79818; Certified Vermont Class 2 Public Water System Operator; 40-hour OSHA HAZWOPER Course; 8-hour OSHA HAZWOPER Course; Firefighter I Certification

**Sidewalk Project, Castleton, VT.** Led construction administration for a 2,800-LF sidewalk project along VT 4A and VT 30 in Castleton. For this MAS-administered project, observed contractor's activities, filed daily reports, coordinated the response to RFIs, reviewed contractor's payment requests and submittals, observed materials testing, organized and attended meetings, and assisted in community relations.

**US 7 Segment 6 Construction Inspection, Brandon, VT.** Senior Environmental Engineer for a supplementary site investigation to precharacterize petroleum contamination associated with three known and two former hazardous waste sites in the vicinity of a \$20M roadway and underground infrastructure reconstruction project through the heart of downtown Brandon. The project received funding through the VTrans MAS.

**VT 53 Road Reconstruction, Salisbury, VT.** Project Director and Engineer-of-Record for design, permitting, bid and construction of road reconstruction work to address issues with shoreline erosion, drainage, poor road subbase material, slope instability, and banking. The project included gabion baskets for protection of shoreline from erosion, and timber guardrails to fit into the rural setting. Assisted the Town with securing state funding, and with project administration related to VTrans highway and structures grants during construction.

**Municipal Project Manager, Basin Harbor Road Culvert Replacement, Bridport, VT.** Municipal Project Manager for the replacement of a deteriorating corrugated metal pipe culvert. The culvert was replaced with a precast concrete box culvert.

**Salt and Sand Shed, Vergennes, VT.** Municipal Project Manager/Senior Engineer providing project management services for the construction of a Municipal Salt Shed. The City received funding for the project from the Federal Highway Administration (FHWA) through VTrans, and the project is being developed in accordance with the VTrans MAB process.

**Bakery Lane Assessment and Infrastructure Improvements, Town of Middlebury, VT.** Directed design, permitting, and construction review of nearly 850 feet of water main and 500 feet of sewer improvements for Bakery Lane (including removal of contaminated soils) and approximately 300 feet of sewers for Academy Street in preparation for the new Cross Street Bridge, as well as design coordination for stormwater collection systems. The wastewater improvements also involved an electrical upgrade to the Town sewer pump station.

**Shard Villa Road Slope Stabilization, Middlebury, VT.** Project Manager for assessment, design, permitting, bid, and construction services for a slope stabilization and roadway surface reclamation project along Shard Villa Road. The project includes 200 LF of slope stabilization along the outer bank of the Middlebury River and 2,700 LF of roadway reconstruction. The slope stabilization includes a rip rap wall and slope protection with rip rap. Live staking and placement of clearing and grubbing material was used to establish vegetation in the rock wall and rip rap protected slope.

**Bethel Mountain Road Slope Stabilization, Rochester, VT.** Project Director for the evaluation, survey, permitting, and final design for a 2,800-LF emergency roadway repair project. The project implements long-term repairs to sections of embankment that failed during a heavy spring rainfall and snowmelt event that closed the road, including upgraded drainage systems and structures, slope repair, and roadway reconstruction and minor realignment. Serving as a valuable mountain connector road between VT 100 and VT 12, rapid reopening and stabilization of the roadway was a critical need, which dictated a significantly compressed schedule. The project was managed by the Town of Rochester and received FHWA-ER funding. Responsible for providing quality assurance review, firm resource scheduling and budgeting oversight, geotechnical subconsultant coordination, and client coordination. *VT ACEC Grand Award Winner*





**Jenny Austin, PE**  
Manager of Construction Phase Services

Years of Experience: 22

Years with D&K: 9

**Education:** B.S., Civil Engineering, University of Vermont, 1999

**Registration:** Professional Engineer: VT 8551

**Sidewalk Project, Castleton, VT.** Assisted with construction administration for a 2,800-LF sidewalk project along VT 4A and VT 30 in Castleton. Responsibilities included spreadsheet tracking of construction quantities and review of quantities in construction payroll requests; certified payroll review; assistance with construction-related materials forms, RFIs, and change orders; coordination with VTrans and the contractor regarding VTrans required documentation; and maintaining the file-sharing site for the project.

**Salt Shed Replacement, Vergennes, VT.** Currently serving as Municipal Project Manager (MPM) to assist the city with the design phase of a project which involves replacing the City's existing salt shed with a new structure. Responsibilities include the preparation of a design engineering services RFP, serving on the selection committee meeting, coordinating meetings; reviewing the design engineers' plans and invoices, and serving as a liaison between VTrans and the design engineer. Assisted with compiling grant applications for additional VTrans funding. The city was recently awarded a Municipal Highway and Stormwater Mitigation grant through this process.

**Peacham Fire District 1 Water System, Peacham, VT.** Project Engineer for a water line replacement and upgrade. Was responsible for providing assistance logging construction field reports, and review of contractor pay requests.

**Peavine Boulevard Embankment Repair, Bethel, VT.** Project Engineer for the evaluation and design of a slope failure repair. A significant rainfall and snowmelt event caused high flows in the White River, which scoured and undermined a 20-ft-high by 175-ft-long section of the roadway embankment. To the north, approximately 100 feet of additional slope was undermined and eroded. Provided detour planning and project engineering support. D&K led geotechnical analysis and modeling of the slope failure, designed a temporary lane closure and subsequent long-term repairs. The Town received FEMA funding for the project.

**Warren Mountain Road, Roxbury, VT.** Project Engineer for design, permitting assistance, and construction administration to repair and stabilize a partial roadway embankment failure of a gravel town highway. Responsible for providing detour planning and project engineering

support. The project included stabilization of the roadway embankment; reconstruction and stabilization of the failed slope; stabilization of the roadway; completion and submission of Agency of Natural Resources and USACE permit applications; and development of contract documents.

**Basin Harbor Road Culvert Replacement, Bridport, VT.** Serving as Municipal Project Manager (MPM) to assist the town with the removal of a 208-in x 57-ft squashed corrugated metal pipe and replacement with a 20-ft-wide x 9-ft-high x 43-ft-long precast concrete box culvert. Responsibilities include the review of design engineers' plans and invoices; review of invoices from design engineer and construction engineer; and serving as a liaison between the Town, VTrans, design engineer, and construction engineer. This project is in the construction phase.

**Beaver Pond Shared Use Path Project, MPM Services, Proctor, VT.** Municipal Project Manager (MPM) to assist the Town with the design phase of the shared-use path project. Responsibilities include preparation of a design engineering services RFP, served on the selection committee meeting, coordinated meetings with the Path Committee including engaging Doodle Polls for collecting input from meeting attendees and attended meetings; review of design engineers' plans and invoices; and has been a project liaison between VTrans and the design engineer.

**Local Project Management Services, Brandon US 7 Segment 6 Reconstruction Project Brandon, VT.** Assisted with all aspects of the Local Project Manager (LPM) role overseeing a 1.2-mile roadway reconstruction project. Responsibilities included served as liaison among the design engineer, municipality, and VTrans; attended and prepared notes at public meetings; reviewed plans; assisted the Town through the Right-of-Way phase, including assistance with waiver valuation forms; compiled, reviewed, and submitted invoices to VTrans from the engineering consultant and subconsultants for project design. Performed other general project management LPM tasks including project coordination, scheduling meetings, providing design-related information to new Town staff, and other necessary tasks.



**Christopher Rivet, PE**  
Manager of Construction Phase Services

Years of Experience: 11

Years with D&K: 3

**Education:** B.S., Civil Engineering, Norwich University, 2010

**Registration:** Professional Engineer: VT 109341

**Parking Improvements, Hartford High School**

**Hartford, VT.** Project Engineer responsible for the preparation and submission of the stormwater discharge permit application for the stormwater treatment system design with a focus on incorporating a new inlet structure with connections to existing storm trunk systems. Permitting submittal assistance included preparation of civil site plans in support of Site Plan Review, Construction General Permit for Stormwater and Act 250 Minor Amendment (including development of narrative responses to Civil and Stormwater design Schedule B questions and associated design development drawings). Responsible for construction administration, construction observation, and inspection of EPSC measures.

**Gravel Wetland, Berlin Town Offices, CVRPC, Berlin,**

**VT.** Project Engineer for the implementation of a gravel wetland to treat stormwater runoff from a town office site with 3 acres of impervious surfaces. Responsible for the preparation of design plans, including existing and proposed conditions plans, profiles and details, stormwater calculations, design report, and contract documents for the project. Provided construction administration and part-time construction observation.

**One Taylor Street Multi-Modal Transit Center, Montpelier, VT.**

Project Engineer for a State of Vermont Visitors Center and transit facility to support public bus operations. The Center includes traveler and parking accommodations, green space, residential units, and an extension of the Montpelier Bike Path. Responsible for revising the stormwater discharge permit due to design changes made during the construction of the project. Performed on-site Environmental Professional services, including observation and documentation of contaminated soil management and disposal and inspection of erosion prevention and sediment control measures implemented to prevent off-site migration of contaminated soils.

**Salt Shed Replacement, Wardsboro, VT.**

Project Manager/Lead Engineer for the design, bid, and construction phase services for a salt and sand shed. The existing small wooden lean-to salt shed structure is being replaced with a larger salt and sand shed that will prevent water intrusion into the salt mixture and contaminated runoff from discharging into the stream and associated wetlands across the road. It will also reduce the risk of groundwater contamination, eliminate the need for salt and sand to be dumped on the ground upon delivery and then moved into the structure, and reduce waste. Responsible for engineering, design and permitting for the salt shed. The project follows the VTrans MAB project development process and is being funded by a (VTrans) Municipal Mitigation Grant. It is currently in the design phase.

**Sand Shed Replacement, Pittsfield, VT.**

Project Manager/Lead Engineer for the design of a new sand storage shed at the town garage site. Working with the Town and Two Rivers Ottauquechee Regional Commission for the design, bid and construction phase services. The construction of the proposed sand shed will replace the existing deteriorated shed currently used by the Town and will cover the same footprint. The new shed will provide a more safe, stable structure for the Town to work in. Responsible for engineering, design and permitting for the sand shed. The project follows the VTrans MAB project development process and is currently in the design phase.

**Sand and Salt Shed Construction, Bridgewater, VT.**

Project Manager/Lead Engineer for the design of a new storage shed for sand at the town garage site. Working with the Town and Two Rivers Ottauquechee Regional Commission for the design, bid, and construction phase services. The new shed will provide economic benefits to the Town through the reduction of waste and emissions and improve the water quality of nearby resources, including the Ottauquechee River that borders the site. Responsible for engineering, design and permitting for the sand shed. The project follows the VTrans MAB project development process, and is currently in the design phase.



**Galen Hagen, PE**  
Manager of Construction Phase Services

Years of Experience: 9

Years with D&K: 3

**Education:** B.S., Civil Engineering, University of Vermont, 2012

**Registrations:** Professional Engineer: VT 134427; NCEES: 13-417-45

**Sidewalk and Drainage, Underhill, VT.** Responsible for providing construction administration and observation for the completion of 2,600LF of concrete sidewalk, new curbing, 570 LF of closed drainage, 15 catch basins, and appurtenant signing, drainage, and pavement rehabilitation. For this MAS-administered project, observed contractor's activities, filed daily reports, coordinated the response to RFIs, reviewed contractor's payment requests and submittals, observed materials testing, organized and attended meetings, and assisted in community relations.

**Bethel Mountain Road Slope Stabilization, Rochester, VT.** Project Engineer for evaluation, survey, permitting and final design for a 2,800-LF emergency roadway repair project. The project implements long-term repairs to sections of the embankment that failed during a heavy spring rainfall and snowmelt event that closed the road, including upgraded drainage systems and structures, slope repair, and roadway reconstruction and minor realignment. Serving as a valuable mountain connector road between VT 100 and VT 12, rapid reopening and stabilization of the roadway was a critical need, which dictated a significantly compressed schedule. The project was managed by the Town of Rochester and received FHWA-ER funding. Conducted period construction site visits and observation.

**Road and Utility Reconstruction, Prospect and Elm Neighborhoods, Randolph, VT.** Resident Project Representative for water/sewer/stormwater utility improvements and road reconstruction for 7,600 LF of roadway and sidewalk in a residential area in the Town of Randolph. The project was modified and extended to break-out the design, bidding, and construction of sewer replacements on School and Park Streets, which were identified as high priorities to address long-term maintenance issues.

**Water Line Replacement on South Park Street & Chatterton Park, Proctor, VT.** Project Engineer and Construction Administrator for the final design of reconstruction for 2,500 feet of 8-inch ductile iron and improvements to the Town's water distribution system. The project updated infrastructure to improve water pressure throughout the system. Conducted a review of the Preliminary Design Plans and Specifications, provided Final Design Plans and Specifications to the State of Vermont and the Town of Proctor and assisted with permit acquisition. Reviewed submittals, AIS certifications, weekly certified payroll, and conducted bi-weekly meetings during.

**Marlboro Street Reconstruction, Keene, NH.** Project Engineer/Asst. Mgr. of Construction Phase Services for the design of 4,700 feet of utilities and road reconstruction in an urban commercial/residential area. Providing coordination of transportation design and survey, and leading design of water and sewer service, stormwater, and drainage design, public outreach programs, and associated permitting. Design elements incorporate Complete Streets multimodal transportation design measures. Responsible for maintaining coordination with the Town and Contractor, addressing questions from the Contractor, and working with State and funding representatives to provide the necessary information and documentation for the project.

**Monkton Road Slope Stabilization, Charlotte, VT.** Project Engineer for repairs to address a 200-ft-long slope failure along a town-owned roadway. Responsible to conduct site visits with the survey crew, coordinate with geotechnical engineers, research practices to address the slope failure, present alternatives at a public meeting and provide final design of the selected alternative.

**Education:** Civil Engineering Technology, Vermont Technical College, 1991

**Certifications:** NETTCP-Hot Mix Asphalt; ACI Concrete Field Testing; Nuclear Cert.

**US Route 7 Segment 6 Construction Inspection, Brandon, VT.** Resident Project Representative for full-time construction inspection services for a major roadway and underground infrastructure reconstruction project through the heart of downtown Brandon. The project consists of roadway widening, sidewalks and curbs, pavement markings, traffic signs, signal, water main, sanitary sewer, aerial & underground utilities and stormwater improvements for the Brandon Village portion of U.S. Route 7. Included are portions of Franklin Street, Park Street, Center Street, Conant Square, Grove Street, and associated intersections and side roads. The project reconstructs a major north-south highway link through downtown to create a geometric configuration that will serve the high traffic volumes and access of abutting properties.

**Central Street Bridge Rehabilitation, Brandon, VT.** Resident Project Representative for rehabilitation of a historic concrete bridge carrying US 7/Central Street and various utilities over the Neshobe River in an urban area. The project is being completed concurrently and in close coordination with the \$20M US 7 Segment 6 roadway/utilities reconstruction project. Responsible for on-site construction observation, preparation of daily work reports, observation of materials testing, review of payment requests, coordination of responses to RFIs, attendance of project-related meetings and serving as a liaison between the town, regulatory agencies, the contractor, and the design engineer.

**Construction Observation, VT 113, VTrans, Vershire, West Fairlee, Thetford, VT.** Construction observation services for full depth reclamation of nearly 8 miles of state highway. Provided inspection during the milling of pavement; tracked reclaim operations and monitored depth and cement content and moisture; tracked the placement of the base cold mix and the hot mix courses measuring pay quantities. HMA inspection included oversight of guardrail placement to ensure proper install, proper bolts in the correct locations, rail type, post length, and assembly procedures. "Red checked" other inspectors' work before it was handed in for data entry, verified reported quantities and mathematical calculations, created an Inspectors Daily Report, and measured pay quantities by survey or tallying slips. Provided layout for road and driveway intersections and traffic markings; monitored traffic control; and coordinated with the public answering

questions and designing small changes on the fly to accommodate drives, drainage, and other unforeseen issues. Project included re-ditching; reconstruction of below-ground drainage devices; and replacement of bridge expansion joints, guardrails, and all pavement markings.

**Construction Observation/Chief RPR, VT Route 66 Reclaim, VTrans, Randolph, VT.** As Chief Inspector, Mark oversaw the work of one state employee and another consultant inspector. Paperwork from field came through chief inspector for proofing and then was handed to office engineer for data entry. Provided coordination with adjacent landowners to resolve issues of drainage and mailbox/driveway access. This project included reclaiming and repaving 7.192 miles of VT Route 66. Services include roadway banking improvements, pavement markings, signage, pedestrian ramps, guardrail improvements, truncated domes, rehabilitation of drainage structures, and cost/quantity estimation.

**VT 100 Pittsfield, Guernsey Brook, VT.** District maintenance project to address public concerns over drivability of road segment. Coordinated the use of hot scribed to remove pavement ridge based on onsite determination of amount of pavement to be removed.

**VT 30 Wells/Pawlet and VT-30, VT.** Represented District concerns on paving project following Town of Castleton water/sewer project that impacted these state roads. Provided in-field quality control inspections to confirm acceptability of all road repair issues including fill slopes, drainage, guardrail, aggregate shoulders, pavement markings, pedestrian safety, and snow removal issues.

**Route 103 Ludlow, VT.** Provided geometric design of paved approaches to accomplish smooth transition following Central Vermont Railroad adjustment of rails at this road crossing.

**VT 4a Castleton/Ira/West Rutland, VT.** This road repaving project involved tailgate placement, grader spreading, and compaction using District forces.



**David Lamontagne**  
Resident Project Representative

Years of Experience: 40+

Years with D&K: 1

**Education:** University of Virginia, Evening Division, 1988; Coursework: Construction Project Management, Surveying, Estimating, Industrial Safety, and Quality Control Engineering; General Dynamics In-plant Courses, 1972-1986; Structural Welding, Rigging Practices and Safety, Steel Fabrication and Reactor Systems and Controls; Thames Valley State Technical College, Norwich, CT, 1976-1978

**Sidewalk Project, Castleton, VT.** Resident Project Representative responsible for providing part-time construction observation services for a 2,800-LF sidewalk project along VT 4A and VT 30 in Castleton. This project utilized VTrans specifications and pay items.

**Grove Street Bridge Rehabilitation, Rutland, VT.** Resident Project Representative for the construction phase of this bridge rehabilitation project. Responsible for on-site construction observation, preparation of daily work reports, observation of materials testing, review of payment requests, coordination of responses to RFIs, attendance of project-related meetings, and serving as a liaison among D&K, the town, regulatory agencies, and the contractor. D&K services included a study, design, and construction phase services for the substructure rehabilitation and replacement of the joints and bearings for a three-span, non-continuous, 169-ft-long steel stringer bridge with a concrete deck.

**Culvert and Bridge Improvements, Old Dominion Railroad Park, Fairfax, VA.** General Contractor responsible for the repair and reconstruction of six stone culverts and two bridge abutments for a 100-year-old, rail bed. Activities included removal of debris and accumulated silt and sand, jacking and repositioning the existing stonework and patching stone joints with mortar. Duties included attending pre-bid coordination meetings, overseeing bid development, negotiation of contracts, submission of RFIs, completing change orders, providing value engineering, and supervision of construction crews.

**Site Improvements, Strathmore Music Hall, Bethesda, MD.** General Contractor responsible for site work, driveways, curb and gutter, sidewalks and stairs requiring forming, pouring, and finishing intricate multi-colored architectural concrete patterns surrounding the outside of the 195,000-SF building. Duties included attending pre-bid coordination meetings, overseeing bid development, negotiation of contracts, submission of RFIs, completing change orders, providing value engineering, and supervision of construction crews.

**Bridge Abutment Repair, America Online, Vienna, VA.** General Contractor responsible for the partial demolition and structural repair of six on-campus bridge abutments, including chipping, sandblasting, rebar replacement, and concrete patching totaling approximately 1,200SF. Duties included attending pre-bid coordination meetings, overseeing bid development, negotiation of contracts, submission of RFIs, completing change orders, providing value engineering, and supervision of construction crews.

**Kennedy Center for the Performing Arts, Washington, DC.** General Contractor responsible for the reconstruction of theater seating and balconies at the 2,465-seat and two-balcony concert hall and 2,500-seat Eisenhower Theater. Scope included forming, reinforcing, and placing approx. 230 CY of concrete for steps, ramps, balconies and stage slabs. Duties included attending pre-bid coordination meetings, overseeing bid development, negotiation of contracts, submission of RFIs, completing change orders, providing value engineering, and supervision of construction crews.

**Ballston Metro Rail System, Arlington, VA.** General Contractor responsible for the excavation, sheeting and shoring, and reinforced concrete foundation for the proposed Wilson Boulevard mid-rise office building straddling the existing Ballston Station Metro Tunnel. No Contact with the existing tunnel was permitted, and the project consumed approx. 1,250 CY of concrete and 300 tons of structural steel. Duties included attending pre-bid coordination meetings, overseeing bid development, negotiation of contracts, submission of RFIs, completing change orders, providing value engineering, and supervision of construction crews.

**Mobil Oil Headquarters, Fairfax, VA.** General Contractor responsible for excavation, grading, and restoration of an embankment impounding a 2.5-acre pond for increased flood control expansion. Project included new concrete reinforced spillway and downstream placement of 240 tons of riprap. Duties included attending pre-bid coordination meetings, overseeing bid development, negotiation of contracts, submission of RFIs, completing change orders, providing value engineering, and supervision of construction crews.



**Education:** A.S., Civil/Environmental Technology  
Vermont Technical College, 2000

**Certifications:** Certified Site Technician: VT; Nuclear Moisture/Density Equipment: 12595; NETTCP Hot Mix Asphalt Certified: 2595; Confined Space Certification; State of Vermont, Class A Licensed Designer; ACI Concrete Field Testing

**Bethel Mountain Road Slope Stabilization, Rochester, VT.** Resident Project Representative responsible for providing construction observation for a 2,800-LF emergency roadway repair project. The project implements long-term repairs to sections of the embankment that failed during a heavy spring rainfall and snowmelt event that closed the road, including upgraded drainage systems and structures, slope repair, and roadway reconstruction and minor realignment. Serving as a valuable mountain connector road between VT 100 and VT 12, rapid reopening and stabilization of the roadway was a critical need, which dictated a significantly compressed schedule. The project is managed by the Town of Rochester and receives FHWA-ER funding.

**Bull Run Road Slope Stabilization, Roxbury, VT.** Resident Project Representative responsible for providing construction observation in support of repairs to a failed roadway embankment (approximately 75-ft-long by 50-ft-wide). Provided part-time observation of contractor's activities. The project includes stabilization of the roadway embankment; reconstruction and stabilization of the failed slope; stabilization of the roadway; completion and submission of permitting applications; and development of contract documents. (2018/2018)

**Resident Project Representative, District #4, VTTrans, Various Locations, VT.** After Tropical Storm Irene, emergency or temporary repairs were made to numerous sites within District #4. VTTrans initiated an inspection of the condition of the emergency or temporary repairs in anticipation of making permanent repairs. Provided part-time construction observation at select sites for permanent repairs.

**Bridge Rehabilitation, Pier and Wright's Covered Bridges, Newport, NH.** Design Technician/Resident Engineer responsible to perform bridge inspection and data collection for creation of plans and details for bridge repairs, with a focus on fire suppression. Performed full-time construction observation. Responsibilities included review of traffic control activities and coordination with NHDHR and municipality. Documented daily construction activities for conformance to plans and specifications; maintained photographic record; reviewed and approved Contractor submittals; coordinated regular construction status meetings;

prepared Contractor's payment estimates; prepared Record Drawings based on data obtained during inspections and provided by Contractor; and performed final inspection.

**Resident Project Representative, Bridge Rehabilitation, US 2/VT100 Roundabout, Waterbury, VT.** Construction observation for a new \$3.9M roundabout project that addressed unsafe conditions including high traffic volumes and inadequate pedestrian facilities in an area serving as a gateway to the village of Waterbury and a number of area businesses. Provided observation for deck replacement to a two-lane bridge serving US 2/VT 100/Main Street. Responsibilities include preparing daily observation reports; maintaining a photographic record of construction; coordinating required materials testing by an independent qualified laboratory and assuring preliminary process control tests on material samples are performed in accordance with VTTrans requirements; reviewing quantities and Contractor's progress pay requests; and coordinating with the municipality, Contractor, and design engineer. Project was funded through the VTTrans Municipal Assistance Bureau (MAB) and complied with the MAB Guidebook for Locally Managed Projects.

**Resident Project Representative, Castleton Bridge Replacement and Rail Grade Lowering, Castleton, VT.** Full-time office engineering with periodic construction observation services over a two-month period for an accelerated bridge replacement project on VT Route 30, including associated railroad track lowering. Project consisted of a new precast bridge substructure and superstructure with road subbase, stormwater drainage, street signage, pavement markings, and related roadway items. The railroad portion consisted of ballast removal, lowering of approximately 1,500 ft of track under the bridge and installing 340 new ties.

**Resident Project Representative, Rochester Bridge BRF 0162(19), VTTrans, Rochester, VT.** Resident Project Representative for full-time office engineering with periodic construction observation services over a 3-month period on Vermont Route 73 Bridge 19 in Rochester.

**Education:** B.S., Business Management and Technology, Vermont Technical College, Randolph, VT, 2009; A.S., Civil Engineering Technology, Vermont Technical College, Randolph, VT, 1991

**Certifications:** Troxler Nuclear Gauge; NETTCP Hot Mix Asphalt Paving Inspector: 2573; ACI Concrete Field Testing: 000934933

**US Route 7 Segment 6 Construction Inspection, Brandon, VT.** Resident Project Representative for full-time construction inspection services for a major roadway and underground infrastructure reconstruction project through the heart of downtown Brandon. The project consists of roadway widening, sidewalks and curbs, pavement markings, traffic signs, signal, water main, sanitary sewer, aerial & underground utilities and stormwater improvements for the Brandon Village portion of U.S. Route 7. Included are portions of Franklin Street, Park Street, Center Street, Conant Square, Grove Street, and associated intersections and side roads. The project reconstructs a major north-south highway link through downtown to create a geometric configuration that will serve the high traffic volumes and access of abutting properties.

**Enterprise Alley and Depot Square Reconstruction, Barre, VT.** Resident Project Representative for the construction phase of an urban brownfield redevelopment project that has improved traffic circulation, parking, pedestrian facilities, aesthetics, and implementation of a corrective action plan (CAP) from a former dry cleaning facility, which leached trichloroethene (TCE) into the nearby soils. The project included installation of closed drainage systems, buried liquefied propane tanks serving area businesses, sewer service upgrades, and a water line service. Services included close coordination with the City, abutting property owners, and the VTrans Rail Section for the abutting railroad. Provided full time resident engineering; tasks included construction observation, participation in coordination meetings weekly, reviewed submittals, pay requests, maintained a field book that includes daily activities, as constructed conditions, and requests for information. Pete also provided observation for the soil vapor extraction system.

**Resident Project Representative, Waterbury Roundabout, Waterbury, VT.** Assistant RPR for a \$3.9M project that included modification and rehabilitation to bridges for roadway and pedestrian accommodation; partial and complete roadway reconstruction; imprinted island construction; stormwater management; parking reconfigurations and improvements; new sidewalks, curbing, crosswalks, and signage; undergrounding of utilities;

replacement and extension of water and sewer mains; and lighting, landscaping, and streetscaping. Responsibilities included preparing daily observation reports; maintaining a photographic record of construction; coordinating required materials testing by an independent qualified laboratory and assuring preliminary process control tests on material samples are performed in accordance with VTrans requirements; reviewing quantities and Contractor's progress pay requests; and coordinating with the municipality, Contractor, and design engineer.

**Resident Engineer, Roadway Reconstruction, US Route 7, Brandon, VT.** Resident Inspector for a major, full depth roadway reconstruction of 3 miles of US Route 7. Responsibilities included removal and replacement of storm drainage and structures, new sewer and water mains, paving. Services included tracking quantities, testing and as-builts, traffic control for safety of traveling public, and day-to-day documentation for payment and final records. Finalized the drainage portion of the project in accordance with VTrans standards.

**Resident Engineer and Construction Inspector, School Street Improvements (LTF), Randolph, VT.** Project involved new sewer and water mains and connections, including new storm sewers and removal and replacement of all pavements within project limits. Provided documentation and measurement on daily basis for project records and payment.

**Engineer and Resident Inspector, IBM Bridge Rehabilitation, Essex/Williston, VT.** Project involved partial deck removal and replacement by means of Hydro-Blasting. Assured any remaining material which had deteriorated due to delamination and wear was removed, along with steel replacement due to corrosion. Provided daily measurements and documentation.

**Education:** M.S., Sanitary Engineering, Northeastern University, Boston, MA, 1977; B.S., Civil Engineering, Northeastern University, Boston, MA, 1974

**Registrations:** Professional Engineer: VT 3876

**Stormwater System Upgrade, FEMA HMGP, City of Barre, VT.** Resident Project Representative for installation of 1,000 LF of 12- and 18-inch storm drain along Granite Street including an outfall. Responsible for providing observation during contractor activities, maintaining a set of record drawings, and completing daily reports of contractor activities.

**Water System Improvements, Greensboro Fire District #1, Greensboro, VT.** Construction Manager for water system improvements consisting of a new storage tank roof, control and metering buildings and approximately 12,000 feet of 8-inch and 12-inch water mains, valves, hydrants and services constructed under three contracts.

**Collection Systems and Pumping, Troy and Jay, VT.** Construction Manager responsible for design and permitting of approximately 12 miles of collection sewers, 4.5 miles of force mains and two (2) pumping facilities. The Troy pumping facility incorporated progressive cavity pumps due to the long force main and high head. Chemical feed and aeration were designed into the facility to prevent septic conditions from occurring in the long force main. Responsible during construction for inspection of Contract No. 2 and No. 3. Managed up to four inspectors on the two contracts. Responsible for start-up, operator training, Operation and Maintenance manual preparation and conducted the one-year operation and performance monitoring following acceptance of the facilities by the Owner.

**Wastewater Treatment Facilities, Canaan, VT and Stewartstown, NH.** Senior Engineer for a study and design of improvements to the wastewater treatment facilities and pump stations. Recommendations included a new pump station at the treatment plant, new headworks with screening and grit removal, a new fine bubble aeration system in the lagoons, solar powered mixers in the first two lagoons, a new chlorine contact tank, new sludge removal and dewatering with geotubes, new septage receiving system, a new control building and converting the pump stations to submersible pumps.

**Water Treatment Facility, Canaan Fire District #1, Canaan, VT.** Coordinated pilot testing of high rate media for iron, manganese and arsenic removal. Pilot testing conducted to establish filter loading rate, backwash rate, chemical and dosage requirements and filter backwash settling characteristics. Results confirmed a filter loading rate of 10 gpm/sq. ft., a backwash rate of 20 gpm/ sq. ft., backwash settling suitable to reclaim backwash water within 2 hours and sodium hypochlorite at 2.5 mg/L was the only chemical required. Results reduced the iron level from 0.36 mg/L to <0.02 mg/L, manganese from 0.22 mg/L to <0.01 mg/L and arsenic from 7 ppb to 1 ppb. (previous employment)

**Water Treatment Facility, Town of Sutton, VT.** Senior engineer for the design of a 12 gpm nitrate removal system. The system consisted of a dual train, ion exchange filters for hardness reduction followed by nitrate filters. The design included salt storage for the ion exchange filters, regeneration and backwash disposal and a hydropneumatic booster system. The system has been reducing the hardness from 10 grains per gallon (gpg) to 1 gpg and the nitrate level from 11 – 12 mg/L to 2 mg/L. (previous employment)

**Water System Improvements, East Berkshire Fire District 1, Berkshire, VT.** Senior engineer for the planning and design of a 30 gpm dual train, cartridge filter system for springs under the direct influence of surface water, storage tank roof replacement, transmission main and distribution system replacement. The water treatment cartridge filter system includes a 1 micron nominal filter followed by a 1 micron absolute filter, chemical feed systems, influent and effluent turbidity monitoring, chlorine and pH monitoring, flow measurement, a data logging and cell phone alarm system. The new storage tank roof will be precast concrete planks with a ballasted membrane.

**Education:** B.S., Civil Engineering, Northeastern University, 1972

**Certifications:** Massachusetts Construction Supervisor's License; Boston Water and Sewer License

**Bethel Mountain Road Slope Stabilization, Rochester, VT.** Resident Project Representative responsible for providing construction observation for a 2,800-LF emergency roadway repair project. The project implements long-term repairs to sections of the embankment that failed during a heavy spring rainfall and snowmelt event that closed the road, including upgraded drainage systems and structures, slope repair, and roadway reconstruction and minor realignment. Serving as a valuable mountain connector road between VT 100 and VT 12, rapid reopening and stabilization of the roadway was a critical need, which dictated a significantly compressed schedule. The project is managed by the Town of Rochester and receives FHWA-ER funding.

**Lower Plain Sewer Line Extension Design, Bradford, VT.** Construction Inspector for 10,000 lf gravity sewer extension to serve commercial and industrial area located on lower plain area of Bradford. Project included 7,100 lf of forcemain, pump station, directionally drilled river crossing, railroad crossing, and Vermont state highway crossings.

**Keating-Birchwood Area Reconstruction, Dover, NH.** Resident Project Representative for design of 4,400 feet of utilities and road reconstruction in a residential area. Providing full-time construction observation of replacement water and sewer service, stormwater, and drainage, and roadway surface reconstruction. The project includes Complete Streets multimodal transportation design measures and the integration of Low Impact Design (LID) stormwater infiltration and treatment facilities.

**Pedestrian Facilities and Courtyard Improvements, Massachusetts Institute of Technology, Cambridge, MA.** Resident Engineer/Project Manager for Site Contractor on a \$1M site improvements project coordinating with General Contractor, Owner, subcontractors and the City to install pavers, granite curbing, granite benches, cobblestones and donor bricks. This project also included subsurface drainage systems. Provided on-site observation and part-time office engineering in support of the project. The project included significant coordination with multiple landscape architects. Assignments also included submittal and shop drawing review, quantities, requisitions, utilities coordination and compaction testing.

**Road and Utility Reconstruction of Paul and Wallingford Street, and Henry Law Avenue, Dover, NH.** Resident Engineer responsible for construction phase and inspection services for full-depth reconstruction of approximately 2,000 ft of roadway, water, sewer, and storm drainage system replacements; ADA-compliant curb/sidewalks; pavement striping and crosswalks; utility pole relocation; and appurtenances. Specific duties included full-time construction observation, liaison between owner and contractor, tracking quantities, preparing daily reports, coordinating periodic payment requests with the contractor, attending bi-weekly meetings, reviewing traffic control measures, and maintaining strong public relations with local homeowners on these busy residential streets within the City.

**Danvers Public Works Department.** Acted in supervisory capacity in complete charge of all phases of construction for the Danvers Public Works Department. The work included planning, surveying, design, inspection, estimating, specifications, writing, drafting, sidewalks, roadways, and recreational facilities to program budget preparation.

**Site Development and Utilities Installation, 12 Morgan Drive, Lebanon, NH.** Resident Project Representative providing full-time observation for a subdivision including 28 contemporary-style condominium flats consisting of a four-story, 46,200-square-foot building in a planned business park. The project includes connection to City water, sewer and drainage systems, new curb and sidewalk, site access and a paved parking area.

**Hazardous Materials Mitigation and Stormwater System Installation, Lighthouse Nursing Home, Revere, MA.** Resident Engineer/Project Manager for Site Contractor on a \$200,000 site improvements project supporting a building addition. Hazardous materials and contaminated soils were discovered in the field. The project included installation of an underground stormwater system including 16 Cultec units. Responsibilities included leading coordination of the QEP team, contractors, Department of Environmental Protection and paperwork associated with removal and mitigation of the hazardous materials. Assignments also included submittal and shop drawing review, quantities, pay reqs., utility coordination and materials testing.



**Gordon Eastman**  
**Resident Engineer / Senior Inspector**



Over 40 years construction inspection, supervision and management experience on state and municipal projects. Progressed from survey layout and quality control to supervising trades, coordinating subcontractors, later managing all phases of projects from planning, scheduling to construction and closeout. Excellent communication skills, successfully interfacing with agencies, designers, inspectors and abutters, during the construction phase. Keen understanding of VTrans standard specs having spent the last three decades building bridges and roads in Vermont. On behalf of owners, frequently tapped to perform constructability reviews, analyze logic, and probable means and methods, as part of the pre-bid process. Problem solver, able to work independently.

**Years of Experience**  
 40 (4 with WSP)

**Education**  
 Associates Degree in Civil Engineering, Vermont Technical College, 1971

**Professional Certifications**  
 NETTCP Concrete Inspector, NETTCP Drilled Shaft Inspector, OSHA 10hr Certificate; USDOJ Explosives

**Middlebury EWP3 (1)(2), Vermont:** Chief Inspector. This combined \$13M enabling work included removing/installing temporary bridges over the Main Street and Merchants Row railroad tracks, relocating utilities, modifying pedestrian access and installing mini piles and a deep drainage system using micro tunneling, constructing a driven pile/wale support of excavation system and relocating the Battel Block access road.

**Colchester STP BP19001-1, Vermont:** Chief Inspector. Sole site representative for the fast-track 3-mile repair of the Lake Champlain Rail trail. The bike path was heavily damaged in the spring of 2018 and was declared impassable. Using a Contractor IDIQ approach the trail reopened in 11 days, for approximately \$300,000. Construction inspection, contract administration and coordination between VTrans, Town of Colchester, Local Motion and the Vermont Department of Wildlife.

**Lincoln BRF 0188(8), Vermont:** Chief Inspector. The replacement \$2.4M bridge and approach on TH 1 East River Road was constructed in one season, using a fast track method of precast concrete elements; abutments, box beams and approach slabs. The work consisted of full replacement, road realignment, guardrail, safety signage and striping.

**Winterset, Inc., Lyndonville, Vermont:** Construction Manager and Superintendent on dozens of Vermont and New Hampshire transportation projects, many from start to finish, and at times overseeing multiple projects simultaneously. Involved in every aspect of construction projects, from estimating through final construction. Sets up projects from contacting Dig-Safe to working with landowners. Major project examples include:

- Morrisville Bypass, 2012-2014, \$18 million
- Cabot US Route 2, 2011-2012, \$7 million
- Middlesex US Route 2, 2010-2011, \$4 million
- Randolph Route 12, 2008, \$4 million





**Joshua Illsley**  
**Construction Inspector / Office Engineer**



Joshua Illsley is a construction inspector, office engineer and contract management administrator whose experience includes bridge, highway and building construction. Mr. Illsley’s responsibilities have included: quality control and construction inspection, document control, construction project field administration; and project documentation that included progress reporting and preparation of final contract documents. Josh is hands-on with MS Office, and Site Manager/APPIA and Doc Express Software.

**Years of Experience**  
 15 (11 with WSP)

**Education**  
 AS, Civil Engineering Technology, Vermont Technical College, 2007

**Professional Certifications**  
 ACI Concrete Field Technician - Grade I; NETTCP Concrete Technician (pending); NETTCP Precast Concrete Inspector (pending);

**Mount Holly ER STP 0133 (8), Vermont:** Office Engineer and Inspector. This \$1.6M Route 155 project included embankment reconstruction and stabilization, restoration landscaping, river channel reconstruction and armoring, full depth roadway reconstruction, cold planning and new pavement, line striping, underdrains, precast box culverts, guard rails, erosion and sediment control, and maintenance of traffic.

stabilization with soil nails and wire mesh, stream bank reconstruction, full depth roadway reconstruction, cold planing and new pavement; line striping, underdrain, catch basin and storm drainage, erosion and sediment control, and maintenance of traffic.

**Wallingford ER STP 0138 (11), Vermont:** Inspector and Office Engineer. This \$1.3M Route 140 project included slope

**Castleton BRF 015-2, Vermont:** Inspector and Office Engineer. The replacement of a \$2.2M bridge and approaches on VT Rt. 30 over the Clarendon-Pittsford Railroad was constructed in one season under the VTrans Accelerated Bridge Program using precast concrete superstructure and substructure elements. The work consisted of full bridge replacement, guardrail, safety signage and striping, along with lowering the Railroad under the bridge.

**Tunbridge Bridge Replacement Project, Vermont:** Construction Inspector. \$3.8M replacement bridge project on Route 110. This is a steel girder structure with cast-in-place concrete deck and ‘Texas’ handrails, with 700 feet of approach. Other elements included: sidewalks, drainage improvements, period lighting, signage, paving, striping, box beam guardrails, and retaining walls.



## TYLER FENTON, EIT

*Construction Engineer*



### Years with the firm

4

### Years total

16

### Professional Certifications

*EIT, New Hampshire, 2012 (6023)*

*OSHA 30 Hour – Construction (34-602062132)*

*OSHA 10 Hour – Road Construction (36-006009734)*

*OSHA – Permit-Required Confined Spaces*

*NETTCP, Soils & Aggregate Inspector (2140)*

*NETTCP, HMA Pavement Inspector (3219)*

*ACI, Concrete Field Testing Technician I (01317582)*

*ATSSA, Traffic Control Design Specialist Training (2014)*

*NH Local Public Agency Certified #2101*

### CAREER SUMMARY

Tyler is a civil engineering graduate with 8 years' construction engineering, inspection, documentation, and administration experience. Comfortable as part of team, or as sole site representative, Tyler started his career with the New Hampshire Department of Transportation and has overseen, inspected and documented bridge, roadway and paving and streetscape projects, from groundbreaking through closeout.

### EDUCATION

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

2013

### Highway and Bridge Construction

- **Utility & Streetscape Improvements Project. Somerville, MA.** Resident Office Engineer involved in the startup, construction management / engineering during construction, and closeout. The \$45M project involved the installation of approx. 2200 LF of 14'x6' precast concrete box culvert, approx. 6000 LF of various size water mains, approx. 4000 LF of cured-in-place lining of varying diameter sewer pipes, the relocation of buried utilities (gas, electrical ductbanks, communications ductbanks & fire alarm), sanitary and combined sewer separation, new roadway and sidewalk including ADA provisions, porous cycle track, surface drainage improvements, traffic signal updates and green infrastructure urban streetscape.
- **Culvert Replacement, South Burlington STP SCRIP (8), Vermont.** Chief Inspector and acting Resident Engineer on a \$1.6 million replacement of an existing stone culvert on VT Route 116 (Hinesburg Road) carrying Potash Brook that was constructed in one season under the VTrans Accelerated Bridge Program, with precast concrete elements. The work included erosion and sediment control, excavation, dewatering, 12" water, 10" and 21" sewer relocations, gas main relocation (by others), stone fill armoring, underdrains, storm drains, installation of a new 14' x 8' x 115' box culvert, complete stream relocation, controlled density fill, paving, sidewalks, guardrails, safety signage and striping, maintenance of traffic and almost \$100k worth of permanent wetland mitigation soils, plantings and trees. Responsible for daily inspections, documentation, coordination of daily construction activities with contractor, technical interfacing with contractor, review and correction of TMP set-ups, tracking and calculating quantities with extensive cut/fill sectioning, red-line as-built plans, enforced the approved SWPPP and Buy America steel requirements, along with special assistance to the VTrans supervisor, when requested. Sole on-site representative most days.
- **Civil Engineer II and I, Bureau of Construction, New Hampshire Department of Transportation, Concord, New Hampshire.** As Civil Engineer I, worked as engineer on two roadway rehabilitation projects simultaneously with multiple contractors, served as Contract Administrator for an \$800k resurfacing and guardrail repair contract on I-93. Sole resident engineer under Contract Administrator on a two year, \$5.9M bridge replacement project completed on time and on budget, during which was promoted to Civil Engineer II. Responsibilities included extensive inspection of construction operations, provided technical assistance to contractors' personnel, verified construction layout (incl. bridge elevations), and coordinated (with sub-consultants) and performed on-site material testing for verification.

CAREER SUMMARY



Megan Savage is a communications and public involvement coordinator at WSP with experience in public engagement, marketing and event planning. She is the liaison between the client (project) and the public, providing consistent informative updates on design details and construction impacts incurred by the public while fostering an open dialog between the two parties. She works closely with clients to ensure the proper message and tone is presented to the public to create a clear understanding of the project’s goals through the planning, design and construction process, aiding the communities’ understanding of the expected benefits and outcomes following completion of the project.

PROFESSIONAL EXPERIENCE

6 years with the firm

8 years total

Education

Bachelor of Science, Business Administration, Eastern Connecticut State University, 2011

Bachelor of Science, Communications, Eastern Connecticut State University, 2011

Professional memberships

Friend of the TRB Public Involvement Committee (ADA60)

Women’s Transportation Seminar

Public Relations Society of America

Construction Management Association of America

- **Public Involvement Services On-Call Contract, Vermont Agency of Transportation:** Communications and public involvement consultant supporting the Ludlow Bridge Projects and the Woodstock Village Bridge Project on the South Central Vermont Bridges Program, Waterbury Area Transportation Projects ([www.watp.vtransprojects.vermont.gov](http://www.watp.vtransprojects.vermont.gov)), and Colchester’s I-89 Bridges (<https://vtrans.vermont.gov/projects/colchester-i-89-bridges>) and Exit 16 DDI (<http://www.exit16ddi.vtransprojects.vermont.gov/>) Projects. Responsible for maintaining an open dialog between VTrans, the public outreach team and the public stakeholders. Megan manages the deliverables schedule and completion of contact lists, project announcements and weekly Construction Updates, website and social media maintenance, inquiry responses and tracking, graphic design, public meeting and event coordination, end of season surveys, media relations and door-to-door outreach to local businesses and residents.
- **I-95 New Haven Harbor Crossing Corridor Improvement (Q Bridge) Program, New Haven, Connecticut:** Lead communications and public involvement coordinator for this \$2.0 billion CTDOT project. Services included creating art and copy for Program newsletters, brochures, fact sheets and other marketing collateral, providing weekly traffic updates, perform daily website maintenance ([www.i95newhaven.com](http://www.i95newhaven.com)) and quarterly analysis, events, public presentations and tours, vendor and media coordination, public inquiry maintenance, and graphic design. Megan was responsible for managing historical documentation projects including a 200-page coffee table book and 30-minute documentary film, and award application writing. To date, the Q Bridge Program has won 18 awards including one for outstanding Community Engagement efforts throughout the life of the Program.
- **National Disaster Resilience (NDR) Project, Bridgeport, Connecticut:** Lead Communications and P public involvement coordinator for this approximately \$43 million Connecticut Department of Housing (CTDOH) project. Services include preparation of a Community Engagement Plan, event and press coordination, developing Technical and Citizen Advisory Committees, targeting community outreach, media buying and advertising, graphic design, development of marketing materials including fact sheets, info boards and presentations.
- **Rehabilitation of Route 8 Design-Build Project, Bridgeport, Connecticut:** Public Information Coordinator on this \$34.7 million CTDOT Project. Responsible for stakeholder coordination, public meetings and press event coordination, media kits, paid advertising, public notices, fact sheets and graphics including site and detour maps.



**CAREER SUMMARY**

Traffic engineer experienced in all aspects of traffic engineering analysis and design; including complete streets design, traffic signal design, traffic impact studies, analyzing existing and future traffic operations, developing traffic management plans, and conducting field visits. Involved in public outreach efforts in Vermont supporting communications and public involvement staff with local stakeholder outreach, presenting at public forums, and serving as the primary public contact. Proficient in traffic engineering software such as Synchro and AutoCAD and experienced in Microstation.

**PROFESSIONAL EXPERIENCE**

*Traffic Engineering*

4 Years with the firm

4.5 Years total

**Areas of practice**

Traffic engineering/analysis

Public Outreach

**Languages**

English

**Education**

BS, Environmental Engineering,  
University of Vermont, Burlington,  
VT 2014

**Professional memberships**

Women’s Transportation Seminar  
(WTS Vermont Chapter Treasurer)

Vermont Society of Engineers

Institute of Transportation  
Engineers

- **Public Involvement Services On-Call Contract, Vermont Agency of Transportation (VTrans):** Involved in all aspects of public outreach on a series of bridge replacement and transportation projects throughout Vermont including interstate bridge rehabilitation, in-depth and extensive paving work, signalization improvements, and more. Campaigned in the local towns, meeting with stakeholders and provided information prior to the start of each construction project. Organized public outreach meetings through the creation of sign-in sheets, posters, advertisements, and visual aids. Presented at public forums. Throughout construction, was in charge of coordinating with the resident engineers, project managers, and contractors weekly to prepare construction updates to inform the public of traffic impacts and progress through the project website, social media, and email distribution. Was the first point of contact for the public, responsible for addressing all inquiries and maintaining consistent coordination with the local officials.
- **Union Square Transportation Study, Somerville, MA:** Developed traffic management plans for the phasing of the utility replacement and redesign of the roadway network in the Union Square area including modifications to traffic signals throughout the project. Assisted in developing plans for the Complete Streets Design including additional infrastructure for pedestrian and bicyclists.
- **Shelburne Street Traffic Signal Improvement, Chittenden County Regional Planning Commission (CCRPC), Burlington, VT:** As part of a project evaluating current traffic signal operations along the Shelburne Street corridor in Burlington and providing recommendations for signal operation improvements, oversaw collecting all field data including existing traffic volume and signal timings, and conducting field observations of operations throughout the corridor. Performed Synchro analysis to determine the existing intersection operations and potential signal timing improvements through optimization and coordination.
- **Susie Wilson Road Conceptual Design, Essex, VT:** As part of a project designing concepts to improve geometrics and operations at the signalized intersections and incorporate bike lanes along Susie Wilson Road, performed synchro analysis on the existing conditions and design alternatives. Developed the traffic signal plans for the relocation of signal equipment at the three major signalized intersections.



**Brandon P. Avery**

Construction Services Technician

**Education:**

**Paul Smiths College,**  
A.S. Survey Technology

**Certifications:**

- NETTCP Soils & Aggregate Inspector
- ACI Concrete Field Testing Technician- Grade I
- APNGA Portable Nuclear Gauge
- APNGA U.S. DOT Hazmat Portable Nuclear Gauge

Brandon Avery joined S.W. Cole Engineering, Inc. (S.W. COLE) in April 2017 as a technician in our White River Junction office.

Brandon's responsibilities at S.W. COLE include soil density testing, asphalt testing, concrete testing, and associated laboratory testing.

Prior to his employment at S.W. COLE, Brandon worked as a Land Surveyor for Geomatics and Kevin Hall Surveying in New York state. Brandon also has 4 years of welding and CNC operation experience.

**Recent Project Experience:**

**Rockingham Bridge, Vermont:** Brandon performed soil and concrete testing on the replacement of the I-91 Twin Bridges in Rockingham, Vermont. Construction of these bridges is scheduled to conclude in 2020.

**Route 64 & 65, Vermont:** Brandon performed asphalt testing on repairs to Route 64 & 65 through the Vermont Transportation Department scheduled road repair program.

WHITE RIVER JUNCTION OFFICE



**Zach Kelley**

Construction Services Technician

**Education:**

A.S. Civil and Environmental  
Technology, Vermont Technical  
College

**Certifications:**

ACI Concrete Field Testing-  
Grade I

NETTCP Concrete Technician

APNGA Nuclear Gauge Certified

Zach Kelley joined S.W. Cole Engineering, Inc. (S.W.COLE) in 2019 as a Technician in our White River Junction office. Zach has previous experience working as a dispatcher, quality control technician, and plant manager for a concrete company.

Zach's responsibilities at S.W.COLE include soil density testing, concrete testing, and associated laboratory testing.

**Recent Project Experience:**

**On-Mountain Lodge, Carroll, New Hampshire:** Zach provided soils and concrete testing along with structural steel and timber inspection during the construction of a 16,500 SF timber and stone lodge at the top of Fabyan lift in the Bretton Woods Ski Area.

**Mt. Washington Hotel, Carroll, New Hampshire:** Zach provided soils and concrete testing along with structural steel and fireproofing inspection during the construction of the 55,600 SF Omni Mt. Washington Hotel in the Bretton Woods Ski Area.

**Mascoma Bridge, Lebanon, NH:** Zach provided soils and concrete testing along with structural steel and HMA testing and extractions during the rehabilitation of the Mechanic Street Bridge which spans the Mascoma River. The bridge received a full deck replacement and reconstruction of structural components during this rehabilitation project.

**Shayne Pratte**

Construction Services Technician

**Education:**

B.S. Construction Management,  
Vermont Technical College (2021  
anticipated graduation)

**Certifications:**

APNGA Nuclear Gauge Certified

Shayne Pratte joined S.W. Cole Engineering, Inc. (S.W.COLE) in 2019 as a Technician in our White River Junction office. Shayne has previous experience working as a carpenter, and served in the United States Air Force.

Shayne's responsibilities at S.W.COLE include soil density testing, concrete testing, and associated laboratory testing.

**Recent Project Experience:**

**Thayer School of Engineering, Hanover, NH:** Shayne provided soils and concrete testing, along with structural steel inspection at the construction site of a 340 car parking garage addition at Dartmouth College.

**Rockingham Bridges, Rockingham, VT:** Shayne provided concrete testing and observation, and HMA test cores and density testing for the replacement of the I-91 24 North and 24 South bridges in Rockingham Vermont.

**Lebanon Sewer Separation, Lebanon, NH:** Shayne provided soils and concrete testing, as well as HMA paving and core samples testing for the construction of sewer-related infrastructure on Bank Street.