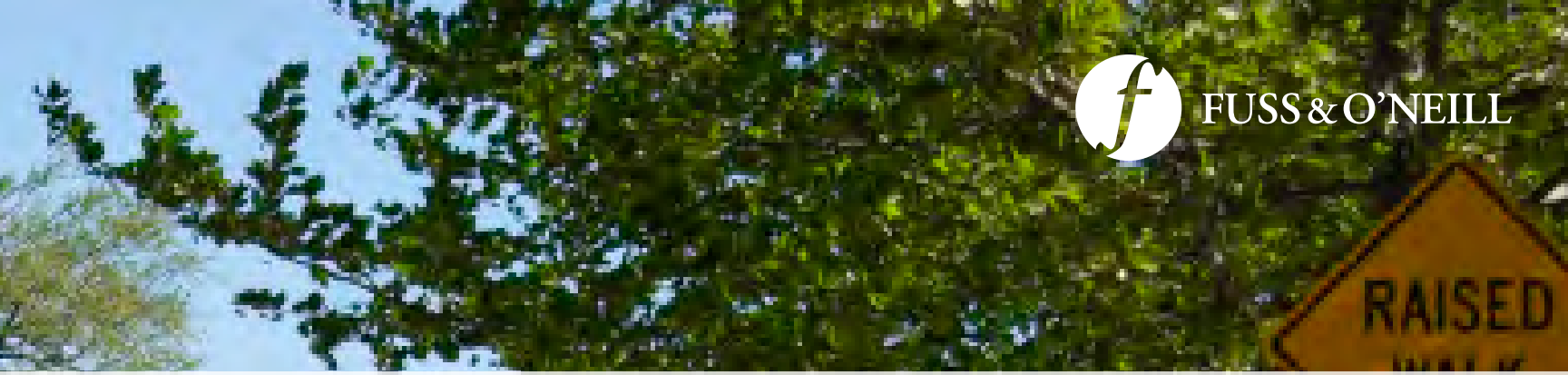


FUSS & O'NEILL

Qualifications For

Two-Tier (State-Local) Qualifications-Based Selection for At-The-Ready Consultant Engineering Services for Municipalities 2023: Design Services

Submitted to
Vermont Agency of Transportation

February 9, 2023

SECTION A

Cover Letter

VT 131 Roadway Improvements – Cavendish-Weathersfield, VT

FUSS & O'NEILL

February 9, 2023

Ms. Nydia Lugo
Civil Engineer
Vermont Agency of Transportation
Highway Division - Municipal Assistance
219 North Main Street
Barre, VT 05641

RE: At-The-Ready Consultant Engineering Services for Municipalities: Design

Dear Ms. Lugo:

Municipalities across Vermont face challenges with maintaining infrastructure and improving the user experience. These challenges can be attributed to funding issues, manpower, location, or even weather related concerns. With the Vermont Agency of Transportation (VTrans) having the At-the-Ready contract mechanism, municipalities have a great opportunity to select a qualified consultant without having to administer a traditional procurement process. Having been a trusted project partner with VTrans for more than 35 years, and a current At-the-Ready contract holder, Fuss & O'Neill has the technical capacity and experience in Vermont to help municipalities upgrade their infrastructure.

Our firm continues to invest in Vermont, both at a state and local level. We currently hold retainer contracts with VTrans for Highway, Safety and Design, Structures Engineering, Survey, Pavement Management, and At-the-Ready. We have a deep understanding of the VTrans process, having completed many projects through their Municipal Assistance Section, and we enjoy working on local Vermont projects. Our team has worked to raise awareness of the At-the-Ready process among our municipal and regional planning clients, and have managed successful projects through this contract. Our firm also holds statewide on-call contracts with the Vermont Department of Buildings and General Services, and works with municipalities, school districts, and regional planning commissions on a variety of engineering and environmental projects.

With more than 340 employees across New England, our team has the resources of a large firm, with the responsiveness and attention of a smaller firm. This organizational structure allows us to both plan the appropriate staff and resources on long-term needs, while being able to react to time sensitive requests. With in-house disciplines like transportation and roadway design, geotechnical engineering, bridge engineering, stormwater management, landscape architecture, hazardous building services, and electrical engineering among others, our team can address more services internally, resulting in a streamlined project process. Our team will be led by Principal-in-Charge Patricia Shedd. Patricia has been exclusively serving VTrans since she started with the firm in 1998. A Vermonter at heart, Patricia is invested both personally and professionally in the development of the State's built environment and is committed to improving the facilities that serve Vermont. She is supported by a talented team of technical professionals that share her desire to continue to improve infrastructure throughout the state.

Herein we detail qualifications that make Fuss & O'Neill uniquely qualified to support VTrans and municipalities through the At-The-Ready contract. Please contact Patricia with any questions.

Sincerely,

Patricia Shedd

Patricia Shedd
Principal-in-Charge
603.222.3482
pshedd@fando.com

205 Billings Farm Road
Suite 6B
White River Junction,
VT 05001

802.698.0370

www.fando.com

California
Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

SECTION B

General Firm Information

Mechanic Street Parking Log Green Stormwater Infrastructure Design – Spencer, MA

Section B - General Firm Information

Fuss & O'Neill is a full-service engineering firm with a depth of staff and experience to complete any project – from initial design to final construction. Headquartered in Manchester, CT, our 340+ person firm has offices in all 6 New England states, and continues to expand. As we grow in size, we maintain our client-first philosophy. We work closely with all stakeholders to give life to a community's vision. Our professional staff maintains licenses and certifications across a wide range of engineering, planning, landscape architecture, design build, scientific, and manufacturing disciplines.

We place great emphasis on collaboration, both within the company and with our clients. We are guided by what is best for the client and the project, identifying project champions, naming project leaders, building project teams, and providing responsive service and quality deliverables. Our mission is to provide our clients with innovative and practical engineering, scientific, and planning solutions. It is what we have been doing since our firm was established in 1924, and what we remain committed to do.

Firm History

Fuss & O'Neill was founded in 1924, and has been practicing engineering for nearly a century. In 2017, Fuss & O'Neill, acquired CLD Consulting Engineers, resulting in a more diverse, dynamic overall firm. Below are former firm names and dates of those incorporations:

Griswold Services, Inc. – 1925 to 1967

Griswold Engineering, Inc. – 1967 to 1971

Griswold & Fuss, Inc. – 1971 to 1977

Fuss & O'Neill, Inc. – 1977 to present

Main Point of Contact

Patricia Shedd

Associate, Highway Team Leader

Fuss & O'Neill, Inc.

50 Commercial Street

Manchester, NH 03101

603.222.3482

pshedd@fando.com

Over the years, Fuss & O'Neill has developed strong working relationships with various local and state transportation officials, and our firm has acquired a solid understanding of their respective standards for roadway design. Our engineers have all become well-versed in VTrans design standards, engineering documents, and specifications. We have worked with municipal personnel on large-scale projects such as the Pittsford-Brandon US Route 7 corridor for more than two decades, and we have worked on smaller projects, such as the Stowe Lower Main Street sidewalk project. No matter the size and scope of the assignment, Fuss & O'Neill will provide qualified personnel, that have been through the VTrans MAS design process, to deliver the quality, service and technical expertise that your project requires.

VTrans is Fuss & O'Neill's top client across our firm. We have a team solely dedicated to serving VTrans and projects that come through the Municipal Assistance Section (MAS). Our team has a great track record in helping municipalities navigate the VTrans process while delivering project solutions that meet the needs of their end-users.

Fuss & O'Neill's specialties include roadway and highway design, intersection and signal design, bicycle and pedestrian facility designs, bridge and culvert design and replacement, and additional transportation and traffic engineering projects. Our team also has extended in-house abilities that encompass surveying, right-of-way services, geotechnical engineering, environmental engineering and hazardous materials remediation, landscape architecture, and lighting design – all components that could contribute to municipal projects.

Along with all of our in-house capabilities, Fuss & O'Neill is teaming with local, talented, experienced sub-consultants to provide a comprehensive suite of services for the At-The-Ready contract. Fuss & O'Neill is teaming with EIV Technical Services for environmental permitting support, Vermont Survey and Engineering (VSE) for survey services, and UVM Consulting Archaeological Program for archeological and historic services.

Business Structure and Quality Control

Business Structure

Fuss & O'Neill is a full-service engineering firm with a depth of staff and experience to complete any project – from scoping to initial design through construction. Our firm has 10 regional offices throughout New England and New York, and has the capabilities and depth of resources of a large firm, yet maintains the responsiveness of a small firm. Our firm is owned by our 29 shareholders, a list that includes a number of professionals included in this VTrans contract, including Principal-in-Charge, Patricia Shedd. Our core VTrans design team members are based in our Manchester, NH and White River Junction, VT offices, and are 100% devoted to VTrans. This team will lead this contract, while receiving technical support firm-wide. VTrans is Fuss & O'Neill's top client, and we have put a business and management structure in place to cater to the needs of your staff.

Local Staff. Regional Support.
The VTrans At-/the-Ready Contract will be managed from our White River Junction, VT and Manchester, NH offices, and will be supported by resources throughout the company.

Patricia Shedd will serve as Principal-In-Charge for this contract, and it is her responsibility to achieve client satisfaction on all project assignments. She will maintain executive-level oversight of quality, safety, and service, and will be pulled into projects as necessary. She will frequently interface with Fuss & O'Neill project managers to understand project progress. Patricia is responsible for making sure that VTrans projects are a priority, and that the proper staff are available to meet your critical deadlines. When an assignment is released, Patricia will designate a project manager which, depending on the project may be herself for the project, based on the requirements of the project and the expertise of our in-house personnel (along with applicable sub-consultants if needed). Based on our organizational chart in Section C, and the increased viability of virtual collaboration tools, we will also assign the appropriate staff to work on the project and will collaborate with VTrans and the municipality to agree on the scope, schedule, and budget of each assignment.

Quality Control

We understand that a small oversight on plans can lead to overages and delays in construction. As we believe that quality control and attention to detail are of highest priority, we have recently revised and expanded our internal quality control procedures. These QA/QC procedures were developed with the input of the staff that will be assigned to projects from this contract to ensure that staff at every level are focused on quality. Dave Munro, PE, will serve as the QA/QC Manager for this contract, and it is his responsibility to check the quality of the deliverables. He will work with the project manager for each given assignment and develop a project specific quality plan that they will implement during the development of design. In addition to common QA/QC steps such as reviews by project leaders, key elements of our QA/QC programs include third-party reviews and the use of checklists. We use in-house technical experts to review designs and reports while they are in draft form and prior to being forwarded to our clients. This allows a fresh set of experienced eyes to review a project closely and see potential issues not seen by the project team. Quality control measures are applicable to any work produced by subconsultants as well, as they are held to the same high standards as our in-house staff.

Subconsultant Partners, Roles and Qualifications

Fuss & O'Neill has frequently teamed with the following sub-consultants, and collectively our teams have delivered quality project solutions to VTrans and Vermont municipalities on a variety of projects. We continue to choose these firms, not only because of their familiarity with VTrans and the Agency's design process, but because we have great trust that they will provide the technical expertise on time and within budget. EIV and VSE hold their respective VTrans On-call contracts, and UVM Consulting Archaeological Program is widely respected for their work across Vermont. This is a seamless team, and the following shows our sub-consultants' outstanding qualifications and roles for this contract.

EIV Technical Services - Environmental Permitting

Contact:
Jacqueline Dagesse, MBA, CPESC
106 East Allen Street, #506
Winooski, VT 05404
802.497.3653
jdagesse@eivtech.com

EIV is a certified DBE in Vermont and currently holds a VTrans Environmental On-call contract which includes NEPA and all the services that would be necessary for roadway and traffic projects anticipated under this on-call. They routinely coordinate with VTrans, Federal and State Agencies for the purpose of obtaining environmental resource information to contribute in the development of responsible designs. They understand that this coordination can have a significant impact on the project schedule and we have been able to move projects through the permit application process ahead of project deadlines. EIV has led local concerns meetings, presented at environmental assessment public meetings and Act 250 Hearings. EIV and Fuss & O'Neill have collaborated together on projects for over 20 years, and Fuss & O'Neill is serving as a subcontractor on the VTrans Environmental On-call contract won by EIV.

EIV fully supports VTrans' commitment to develop projects that address the transportation needs of the public by providing transportation facilities which are safe, efficient and environmentally responsible. Within the last several years, EIV has conducted numerous natural resource assessments, and obtained permits for several large and complex VTrans projects, as well as municipal projects. Such projects include: The Pittsford-Brandon US Route 7 Roadway Reconstruction, South Burlington Multi-Use Facility, South Burlington Stormwater Pond, Stowe Sidewalk Improvements and South Street in South Hero.

Vermont Survey and Engineering, Inc. - Survey

Contact:
Andrew McQueeney
79 River Street
Montpelier, VT 05602
802.229.9138
amcqueeney@vermontsurvey.com

Vermont Survey and Engineering, Inc. (VSE) is a Vermont-based Land Surveying firm, first incorporated in 1982. VSE's client base encompasses Federal, State, and Municipal agencies as well as commercial, industrial, and residential developers. They provide survey services to engineering firms, architectural firms, environmental firms, utility companies and construction companies. Their professional staff includes land surveyors licensed in Vermont, New Hampshire, and New York. Right-of-Way services primarily focus on highway design and related activities for State and Municipal agencies, including the preparation of Right-of-Way plans and associated title abstracting. Surveying services include geodetic control and topographic, hydrographic, boundary retracement, ALTA/ACSM, and construction layout surveys.

Their extensive experience working on all types of VTrans projects have included projects for Highway, Bridge, Aviation, Rail, and Right-of-Way. Their services cover topographic survey, establishing, and setting control, creating Right-of-Way plans, and boundary retracement plats. VSE has provided boundary surveys for Vermont Department Buildings & General Services and Right-of-Way plans for the New Hampshire Department of Transportation. They have consistently delivered skilled personnel and expertise to many VTrans projects, and are committed to continuing this relationship and quality product during this contract.

VSE Fuss & O'Neill have been teaming on projects for over twenty years. VSE's office is in Montpelier and they currently hold a VTrans on-call for survey services. We have always been able to count on them for a quick response and accurate data collection. VSE has provided title abstracting for multiple projects including Pittsford-Brandon US Route 7 Roadway Reconstruction, South Burlington Multi-Use Facility, South Burlington Stormwater Pond, Stowe Sidewalk Improvements and South Street in South Hero and Lunenburg box culvert. They have surveyed numerous projects for Fuss & O'Neill including a resurfacing project in St. Johnsbury. The project in St. Johnsbury had an aggressive deadline and both Fuss & O'Neill and VSE collected data together; VSE processed the data and provided a dtm for Fuss & O'Neill to use during the design.

UVM Consulting Archaeology Program - Archaeological and Historic

Contact:
John Crock, Ph.D
85 South Prospect Street
Burlington, VT 05405
802.656.4310
john.crock@uvm.edu

THE UNIVERSITY OF VERMONT
CONSULTING ARCHAEOLOGY PROGRAM

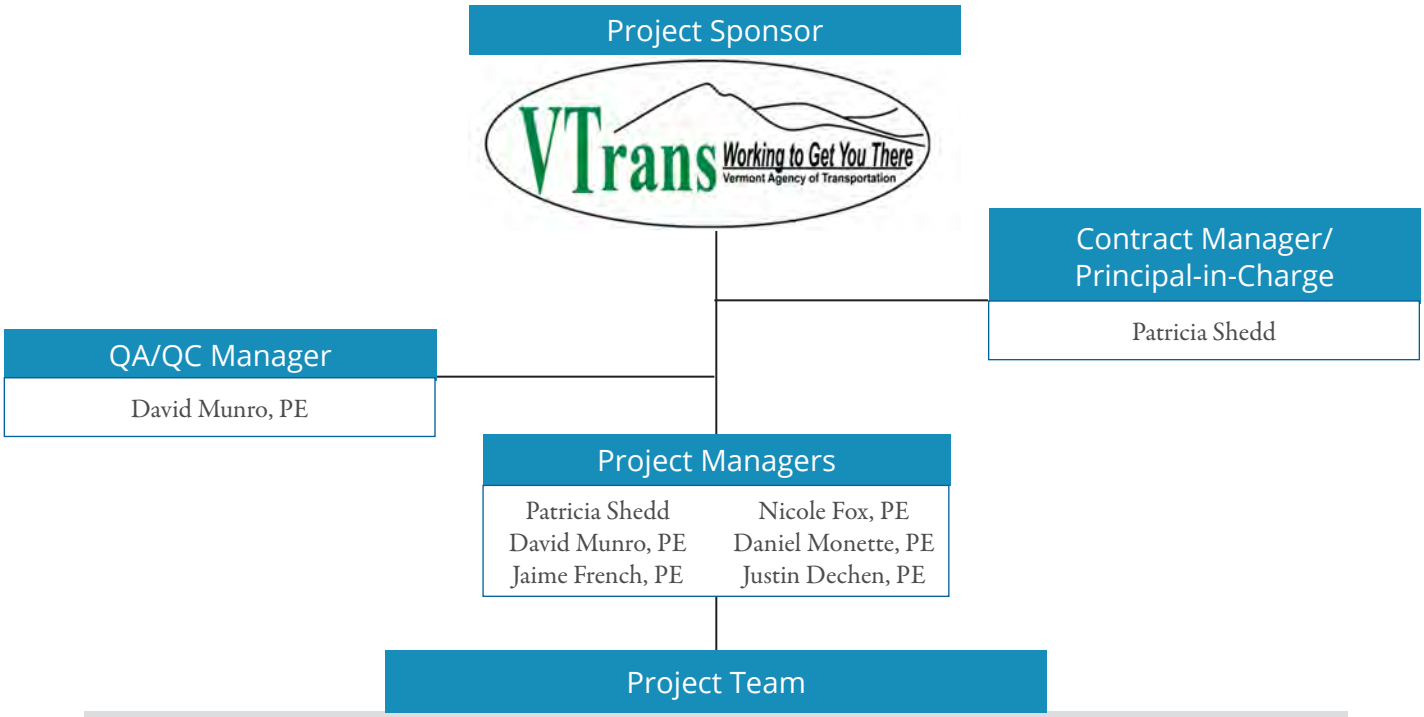
The University of Vermont Consulting Archaeology Program (UVM CAP) assists state and federal agencies, communities and private developers in addressing their obligations with respect to archaeological and architectural resources, as required by state and federal laws and regulations. Established in 1978, UVM CAP has conducted more than 350 archaeological investigations as a direct consultant to the Vermont Agency of Transportation (VTrans) and as a subconsultant to private engineering firms, cities, towns and regional planning commissions for transportation-related projects. UVM CAP is well qualified to evaluate any and all historic preservation and archaeological issues associated with transportation projects of all types and sizes, located in both rural and urban settings throughout Vermont. In the context of highway, road, bridge, airport, stormwater, bike and pedestrian projects, we have assessed the archaeological sensitivity of project areas and identified, evaluated and mitigated archaeological sites representing the full span of human occupation in the state, including all periods of Native American prehistory (9,000 B.C.-A.D. 1600) and Euroamerican history (A.D. 1600-present). In addition UVM CAP has extensive experience evaluating standing structures in the context of historic preservation initiatives and regulatory reviews.

SECTION C

Organizational Chart

RAISE Connecting Community Design Public Meeting - Manchester, NH

Section C - Organizational Chart Design Services



Roadway Design
Michael Haley, PE, LSIT
John Deskavich, PE ENV SP
Andrew Judd, EIT
Michael Delaney, EIT
Steven Goodwin
Tia Williams

Scoping Studies and Bicycle/ Pedestrian Facility Design
Nicole Fox, PE
Jacob Fowler, EIT
Amy Johnson, PE
Patrick Tierney, PE, ENV SP

Traffic Studies and Signal Design
Linda Greer, PE, PTOE
Matthew Skelly, PE, PTOE
Katherine O'Shea, EIT
Robert Lupien

Geotechnical Engineering
Andrea Judge, PE
Christopher Cullen, PE

Hydraulic Analysis, Culvert & Bridge Design
Jaime French, PE
Shannon Beaumont, PE
Ethan Carrier, EIT
Ryan Trudeau, EIT
Leah Cromer, EIT

Landscape Architecture/ Planning
Stephanie White, PLA, ASLA, LEED AP
Christopher Scheufler
Nina Marelli

Water & Wastewater Design
Daniel Monette, PE
Justin Dechen, PE
David Lewis, PE

Stormwater Treatment
Kristen Hayden, PE
A. Cory Dubois, PE
Alan Vomacka, EIT
Celicia Boyden, EIT

Environmental Permitting
EIV Technical Services*
Jacqueline Dagesse, MBA, CPESC, PMP

Survey/Right-of-Way
Heidi Quesada, LLS, PLS
Gregory Brown, LLS, PLS
Vermont Survey and Engineering*
Stephen Fraser, LS
Andrew McQueeney

Archeological/Historic
UVM Consulting Archaeology Program*
John Crock, Ph.D

Environmental Assessment/ Remediation/Hazardous Materials
Joshua Robinson
Robert Montgomery

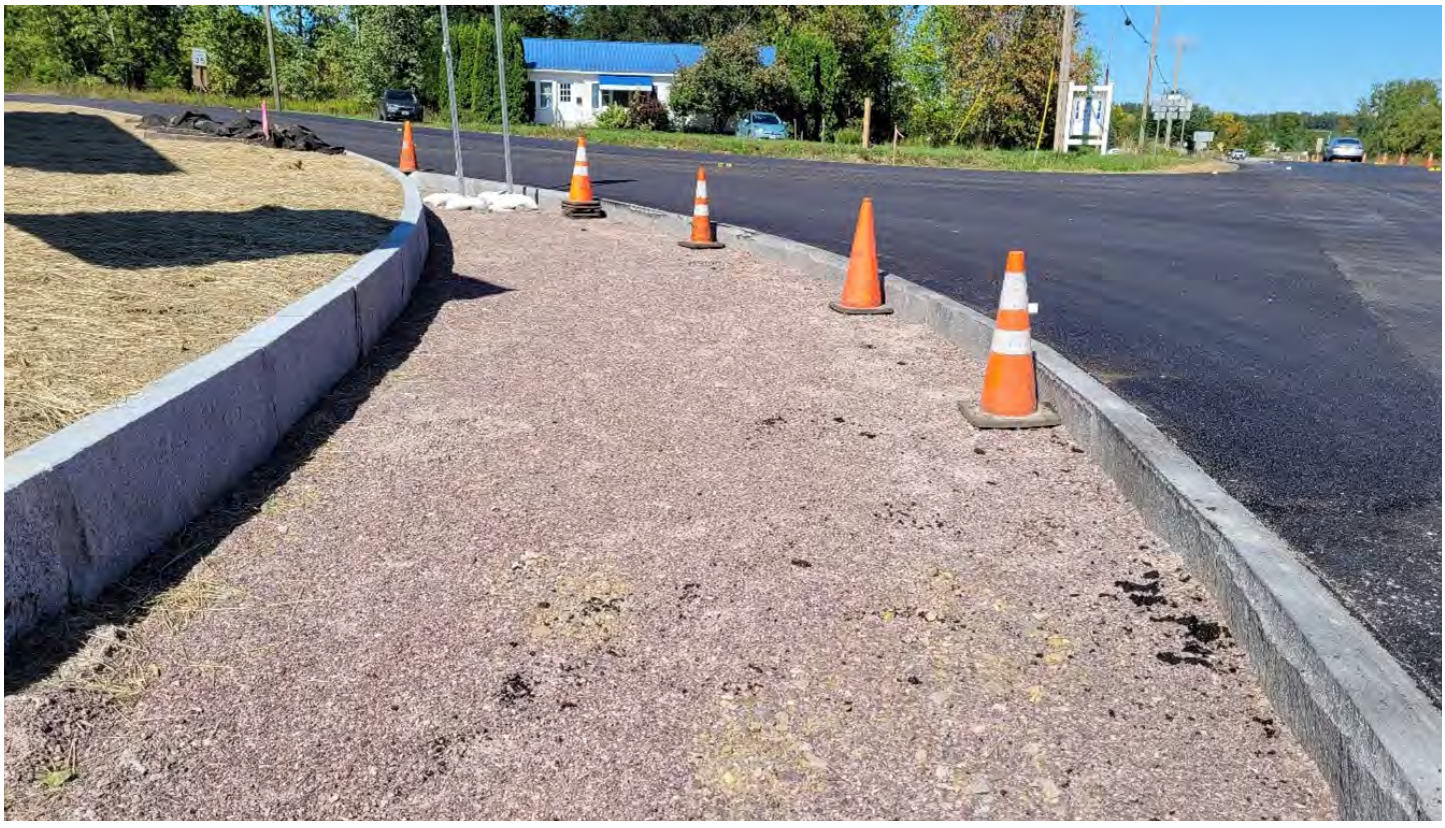
Lighting
Allen Pigeon, LC, LEED AP

*Subconsultant

SECTION D

Availability Chart

US 2/VT 314 Intersection improvements and Environmental Site Assessments – South Hero, VT



Section D - Availability Chart Design Services

The following is an availability chart for the VTrans At-The-Ready Contract. Our team is dedicated to providing exceptional service and technical expertise on VTrans and VTrans MAS projects, and will dedicate the appropriate resources to exceed project requirements. As a growing firm, our team has a wide range of engineering capacity to lean on when needed. Additional personnel, identified on the organizational chart, will be utilized as they are needed to manage and execute assignments. Our subconsultants EIV Technical Services, Vermont Survey and Engineering, and UVM Consulting Archaeology Program are committed to providing exceptional service and meeting all project deadlines.

Name	Role	Availability
Patricia Shedd	Principal-in-Charge, Main Point of Contact, Project Manager	50%
David Munro, PE	QC/QA Manager, Roadway and Stormwater Project Manager	50%
Jaime French, PE	Bridge Project Manager	50%
Nicole Fox, PE	Scoping Studies and Bicycle/Pedestrian Facility Design, Project Manager	50%
Daniel Monette, PE	Pedestrian Facility, Water and Wastewater Project Manager	50%
Justin Dechen, PE	Water and Wastewater Project Manager	50%
Linda Greer, PE, PTOE	Traffic Studies and Signal Design	25%
Kristen Hayden, PE	Stormwater Treatment	50%
Shannon Beaumont, PE	Hydraulic Analysis, Culvert & Bridge Design	50%
Andrea Judge, PE	Geotechnical Engineering	25%
Stephanie White, PLA, ASLA, LEED AP	Landscape Architecture/Planning	25%
David Lewis, PE	Water and Sewer Design	25%
Heidi Quesada, LLS, PLS	Survey and Right-of-Way	25%
Allen Pigeon, LC, LEED AP	Lighting	10%
Joshua Robinson	Environmental Assessment and Remediation, Hazardous Materials	10%

SECTION E

Technical Capability

Stormwater Scoping Study – Bridport, VT

Section E - Technical Capability

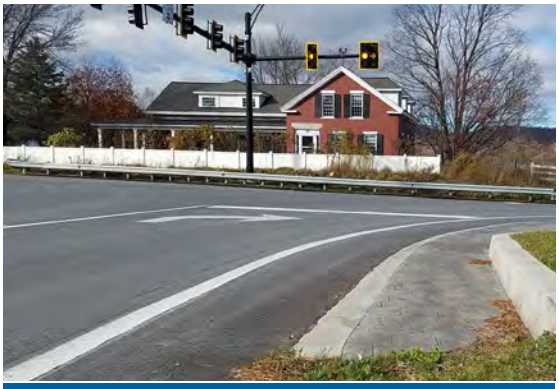
Qualifications and Experience of Firm

Fuss & O'Neill has been providing engineering services to VTrans for 35+ years. Our most recent experience has involved a wide variety of projects for municipal and private sector clients throughout New England including each state's Department of Transportation and the U.S. Forest Service. Projects anticipated under the Municipal Assistance (MA) At-The-Ready contract for Design Services includes scoping studies, design and permitting services for the Bicycle and Pedestrian Program, Transportation Alternatives Program, Municipal Mitigation Program, Municipal Park and Ride Program and the Better Roads Program.

Our team is proficient with the 2021 Municipal Assistance Local Projects Guidebook which clearly outlines the MAS process for Phase A Project Definition (Scoping and Conceptual Design), Phase B Project Design (Preliminary Design, Permitting, Right-of-Way (ROW), Final and Contract Plans) and Phase C Construction as well as the 2018 Guidebook Appendices. Both Fuss & O'Neill and VSE hold the current VTrans Surveying & ROW, Plans and Titles contract and we are experts in title research, plotting existing ROW and generating ROW plans that conform to the FHWA "Uniform Act" and meet the Agency's standards, assisting municipalities with waiver valuations and providing expert testimony at Necessity Hearings . In addition to the MA Guidebook, we utilize numerous Federal, State and local design manuals including AASHTO's Green Book for geometric design, MUTCD for sign, striping, and temporary traffic control, Roadside Design Guide for guardrail and barrier systems, ADA Accessibility Guidelines, NACTO, VTrans Standard Specifications for Construction and the VTrans iPDweb Project Development for generating the Engineer's opinion of probable cost for all projects. Additionally, we prepare the contract documents and specifications and provide construction administration and bidding services including the bid analysis for our clients. We understand the importance of maintaining the construction schedule and we promptly review and respond to contractor shop drawing submittals and requests for information as well as representing the municipality and VTrans to resolve conflicts during construction to ensure the construction schedule is maintained.

Roadway Design

Through our vast experience working on hundreds of roadway projects throughout New England, our transportation engineers have become well-versed in roadway geometry, drainage, traffic calming, context-sensitive, and complete streets design techniques from initial concepts to preliminary engineering design stages through the construction support phase. Our highway designers have completed projects from large-scale full depth roadway reconstruction projects in a downtown area to small local road and intersection improvements.



Signals in Jericho Improve Safety
Fuss & O'Neill designed signals at the intersection of VT 15 and Browns Trace Road in Jericho to meet the traffic and safety needs of the community.

Our engineers have design and field inspection experience with the construction of municipal infrastructure projects, as well as projects funded by various state programs in Vermont, New Hampshire, Maine, Connecticut, Massachusetts, and Rhode Island, allowing us to quickly adapt to the specific project needs of a municipality. Over the years we have developed strong working relationships with various local and state transportation officials and have acquired a solid understanding of their respective standards for roadway design. Our team enjoys designing full depth construction and pavement restoration projects including all aspects of geometric improvements

including superelevation, rural projects with roadside drainage and urban settings with closed drainage systems, curb, sidewalk and ADA accessible curb ramps.

We are able to evaluate an existing high-crash location, safety issue, or access management concern and integrate our design recommendations with proposed land use and regional transportation improvement strategies in mind. Our team strives for a future where there are zero crashes and will identify roadway geometry and sight distance deficiencies and incorporate the corrective improvements into the design. We are experienced in designing safety elements such as guardrails, barrier systems, impact attenuators, breakaway sign supports, and other safety devices, as well as individualized treatments for challenging locations. We work with our clients to evaluate each project before developing a design that includes cost effective context-sensitive solutions to address the needs and concerns of the individual community.

Bicycle and Pedestrian Facilities and Rail Trails

We believe that the best transportation facilities are the ones that accommodate all users with safe, accessible, and equitable transportation choices. Fuss & O'Neill has planned, designed, and permitted some of the most progressive transportation solutions in New England, while always adhering to state and environmental regulations. We design with the user in mind – creating suitable spaces for cyclists, walkers, runners, and those with special needs. We believe that all streets should be complete streets with access, connectivity, and safety for all.

FUSS & O'NEILL
Active Design Group

Commitment to Inclusive Design
Fuss & O'Neill's internal Active Design Group collaborates to share best practices and explore new ways for designing non-vehicular transportation.

Trails and greenways, while often providing connectivity to a larger system, each have their own identity. It must pair aesthetically with its natural surroundings. Our engineers and planners design with this compatibility in mind – looking for reuse and refurbishment opportunities and using natural, local, and sustainable materials whenever possible. With nature guiding our design path, the result is a natural fit. At Fuss & O'Neill, we combine our firsthand knowledge of regional trail networks with our decades of local transportation engineering experience to develop greenways and rail trails, transforming underused space into safe and traversable destinations.

Delaware and Hudson Rail Trail
Fuss & O'Neill provided upgrades that included grading and resurfacing the nearly 20-mile Delaware and Hudson Rail Trail that extends over two sections across southwestern Vermont.

Traffic Studies and Signal Design

Fuss & O'Neill's traffic engineers routinely use Synchro, VISSIM, HCM and Work Zone Analysis Tools to analyze traffic turning movements and volumes, prepare traffic studies, design signalized intersections and determine work zone traffic capacity and anticipated delays. We develop micro-simulation traffic models such as VISSIM to evaluate traffic performance which then can be used for demonstration at public hearings. In addition to the timing of traffic signals, it is important to include safe accessible pedestrian facilities at our signalized intersections.

Scoping Studies

Fuss & O'Neill is well-versed in the project definition phase of project development. We approach each scoping study with an open mind, seeking a true understanding of the needs of the community and applying our technical knowledge to develop

a range of alternatives to meet those needs with sensitivity to impacts and creativity. We believe the best solutions come from partnering with communities and we bring enthusiasm and experience to identify what is possible and work to create implementable options. Our team has conducted scoping studies to improve bicycle and pedestrian access, corridor and intersection safety, stormwater management and drainage. Our studies have included traffic evaluations, speed studies, safety reviews, assessments of sidewalk and bicycle networks, stormwater treatment, large culverts, bridges, roadway and intersection improvements and more. We pride ourselves in having an established record of developing solutions that are successfully selected for design and construction.

Pedestrian Scoping Study in Castleton
Our team is completing a scoping study to improve pedestrian safety and connectivity within a one mile corridor from the Delaware & Hudson Rail Trail through the Castleton University Campus.

Geotechnical Engineering

Our geotechnical engineers investigate subsurface conditions and materials to evaluate stability, assess risks, design supporting structures and monitor site conditions. We support a variety of projects including dam evaluation/removal , retaining walls, bridges, landfill monitoring, slope stability and failures, river restoration and the pavement structure design for roadway projects.

Hydraulic Analysis, Culvert & Bridge Design

We have extensive experience in hydraulic modeling and design, specifically analyzing and sizing culverts to accommodate specified design flows. The majority of our hydraulic modeling is with modeling programs such as the FHWA's HY-8 Culvert Design Analysis Program for culvert design, and the Army Corps of Engineers (ACOE) Hydrologic Engineering Center's River Analysis System (HEC-RAS) to perform one-dimensional steady flow modeling for both culvert and bridge design. We are also experienced with 2D flow modeling with SRH-2D utilizing SMS, which is typically utilized for more complicated bridge configurations, evaluation of complex floodplain geometry, and channel restoration.

Bridge Replacement in Barton
Fuss & O'Neill performed a complicated replacement of a 26-foot span concrete T-beam bridge over Roaring Brook in Barton. The project went through the VTrans Municipal Assistance Section process. Many improvements were made while staying within the existing Right-of-Way. The bridge was part of the Accelerated Bridge Program and was closed for four weeks for construction.

Fuss & O'Neill provides bridge engineering services to municipalities, state agencies, architects, industrial and private clients for vehicular and pedestrian use. Projects range from inspection and evaluation of existing structures to the design of bridge repairs, rehabilitation, and new structures. Our team considers not only the hydraulic needs of the structure but aquatic organism and wildlife passage in sizing structures.

Landscape Architecture/Planning

Fuss & O'Neill's in-house landscape architecture and planning team is skilled in sophisticated planting designs for stormwater treatment practices, educational facilities, green roof designs for commercial businesses, downtown complete street designs, pocket parks and roundabouts. Our landscape architects are experts in graphic rendering and oral presentations. We prepare both photo-simulation modeling and free-hand 3D drawings to help our audiences quickly understand design intent. During charrettes and larger workshop events we include our illustrators as part of the process, thereby providing real-time imaging of design solutions.

Water & Wastewater Design

Though not often a component of MA projects, we have a long history of providing engineering services to municipalities, utilities, and developers for water distribution systems. Whether the client is a public entity or a private developer, we implement these projects with the same commitment to our core principles. Our water experience includes condition assessment, planning studies, booster stations, water main extension, and water main replacements. Water and wastewater projects with Federal funding frequently require a Public Interest Finding to utilize a specific manufacturer that matches the municipalities current infrastructure. Fuss & O'Neill has developed PIFs for numerous projects.

Fuss & O'Neill has extensive experience in the analysis, evaluation, design, and construction of wastewater collection systems, having performed many large-scale sewer projects over the past 30 years. Our staff is skilled in the analysis and design of gravity sewers, force mains, low pressure sewers and grinder pumps, as well as the analysis of aging collection systems for infiltration/inflow, and the development of Capacity, Management, Operation, and Maintenance programs.

Stormwater Treatment

Our team has extensive experience solving complex stormwater management issues for both MS4 and non-MS4 municipalities, Departments of Transportation (including VTrans) and private property owners. Fuss & O'Neill authored the Connecticut Stormwater Quality Manual and the RIDOT Linear Stormwater Manual. We think outside the box to successfully obtain permits using the latest Vermont Stormwater Management Rules and incorporate Alternative Treatment Practices and Credits into the stormwater design wherever we can to minimize impacts, reduce costs, and lessen future maintenance. Our designs always incorporate green infrastructure whenever possible.

Environmental Assessment/Remediation Hazardous Materials

Our subconsultant partners EIV and UVM CAP will identify sensitive resources including wetlands, threatened and endangered species, historic, and archaeologically sensitive resources for the design teams use during project development. They will complete the permitting including the NEPA, seek a jurisdictional opinion from the environmental commission and complete Act 250 when necessary.

Fuss & O'Neill's environmental practice includes over 30 environmental professionals with experience testing and designing for the abatement of a variety of hazardous materials in both the built and natural environments. We have two major specialties that complement our team, building materials and environmental contaminants, specifically soil and water. These include the cleanup of oil, metals, solid waste, urban fill and the universe of emerging contaminants in soil groundwater, surface water, sediment and air. We will engage this team should a Phase I or II site assessment be necessary.

Lighting/Electrical

Fuss & O'Neill is a full-service organization, and our lighting designers understand the lighting level requirements for roadways, sidewalks, parking areas and buildings and utilize footcandle plans to display photometric calculations for our clients to review. We seek to provide fixtures that match the municipalities current light poles with an eye towards cost effective LED lamps that are easy to install and maintain.

Relevant Project Examples

Fuss & O'Neill has extensive internal design and engineering capabilities, and a thorough knowledge of the VTrans process. The following table showcases a variety of our design capabilities and projects that we have recently completed in Vermont. Later, you will find brief examples of project experience that includes a summary of our experience, and client contact information.

	Project Name (* indicates Municipal Assistance Section Project)	Intersection Improvements	Roadway Reconstruction	Bicycle/Pedestrian Facilities	Bridge Replacement	Box Culvert Replacement	Drainage/Stormwater	Hydraulic Analysis	Landscape Design	Lighting	ROW Plans or Titles	Signage Design	Slope/Ledge Stabilization	Public Meetings	Traffic Control/TMP	Traffic Modeling/Analysis	Water/Sewer Coordination	Advertise/Bid/Construction	Environmental Investigation
Complex Roadway/Intersection Projects	Brattleboro STP 2000(23) US 5 Right-of-Way										•								
	Cabot-Danville FEGC F028-3(26) US 2 Right-of-Way										•								
	Colchester HES NH 5600(14) Exit 16 Roadway Reconstruction										•			•					
	Jericho STP HES 030-1(21) VT 15 Intersection	•	•			•	•	•				•		•	•	•		•	
	Lyndon STP 0113(65) US 5 Roadway Reconstruction	•	•	•		•	•	•		•		•		•	•	•	•	•	
	Pittsford BF 019-3(59) Bridge	•	•	•	•		•	•		•	•	•		•	•	•	•	•	
	Pittsford NH 019-3(492) Segment 2 US 7 Roadway Reconstruction	•	•	•			•	•	•	•		•		•	•	•	•		
	Pittsford NH 019-3(493) & (494) Segment 3 & 4 US 7 Roadway	•	•			•	•				•	•							
	South Hero STP HES 028-1(22) US 2 Intersection	•	•			•	•	•				•		•	•	•			•
	Wallingford-Rutland Town NHG SGNL(71) Signalized Intersections	•										•							
	Fair Haven SMS Site #2021-5048 US 7																		•
Asset Improvement Projects	Bakersfield STP SCRP(11), VT 108 Drainage	•	•				•	•				•		•	•				•
	Cavendish-Weathersfield ER STP 0146(14), VT 131 Reclamation	•	•			•	•					•	•		•	•	•	•	
	Interstate Renumbering Signing, Statewide, VT											•							
	Londonderry-Chester STP PS19(10), VT 11 Reclamation		•									•			•			•	
	Pownal-Manchester NHG SIGN (71) US 7 Signing											•			•			•	
	South Burlington STP BP17(9) Shared Use Path*			•			•		•	•	•	•		•	•				
	South Burlington STP MM21(1) Stormwater Scoping & Design*						•				•				•			•	
	South Burlington TAP TA18(7) Stormwater Pond*						•				•				•				
	St. Albans-Sheldon STP 2941(1) VT 105 Signal & Paving											•			•	•		•	
	Wallingford-Rutland NHG SIGN (68), US 4 Signing											•			•			•	
	West Rutland STP BP21(14) Pedestrian Path*			•							•			•				•	
	Poultney BO 1443(53) Bridge		•	•	•							•			•			•	
Studies	Cornwall-Middlebury STP 0172(11) Scoping Study	•	•	•										•					
	Castleton TAP TA20(9) Scoping Study*			•										•					
	Pawlet STP BP20(12) Pedestrian Scoping Study*			•										•					
	New Haven STP BP20(11) Pedestrian Scoping Study*			•										•					
	Fairlee IM 091-2(91) Scoping Study					•		•											
	Highgate STP MM18(10) Constructability Review*												•						

US 2/VT 314 Intersection Improvements

South Hero, VT

Fuss & O'Neill, in conjunction with the South Hero Selectboard, developed alternatives that sought to improve vehicular and bicyclist safety through the US 2/VT 314 intersection which is a direct route from the Lake Champlain Ferry to US 2. This complicated intersection project involved the addition of a left turn lane on US 2 for vehicles turning on VT 314 and replacement of a failing box culvert.

The improvements utilized a raised apron that accommodates commercial truck turning movements and discourages passenger vehicles from rolling through the intersection. The platoons of traffic generated by the ferry and a box culvert replaced just 300 feet from the intersection complicated the temporary traffic control design. Fuss & O'Neill provided public outreach and stakeholder meetings, development of intersection alternatives, preliminary and final design, Right-of-Way plan development and support, and stormwater permitting. In addition, Fuss & O'Neill provided environmental services, including pre-characterization scope development, permitting, and client and regulator coordination. We performed Phase I and Phase II Environmental Site Assessments (ESA) based on recommendations from the Vermont Department of Environmental Conservation Sites Management Section. The ESA's helped us evaluate the history of environmental conditions in the vicinity of the project site, and then perform soil testing/sampling for VOCs; groundwater sampling; development of specifications, soil, and groundwater management requirements; and evaluation of cut fill volumes and disposal options. Construction was completed in 2022.

Client Contact: Michael LaCroix, VTrans, 802.371.9528, michael.lacroix@vermont.gov

King Street Intersection Improvements

Northampton, MA

Fuss & O'Neill provided design services for intersection realignment and signal coordination at three separate locations along King, Summer, and North Streets in Northampton.

The design provides an extension of the downtown district, includes complete streets techniques, and implements a road diet, which allows room for a separated bike lane that connects to the Northampton Bikeway. Coordination with stakeholders and community outreach were vital components of establishing project support for this MassDOT corridor improvement project. Low-impact development stormwater techniques (e.g., on-street rain gardens and tree filters) were included in the design. Our team provided construction administration services, allowing us to take this project from preliminary design through final construction. Construction was completed in 2021.

Client Contact: David Veleta, PE, City Engineer, Northampton Department of Public Works, 413.587.1570, dveleta@northampton.gov

US 7 Roadway Reconstruction

Brandon, VT

Fuss & O'Neill provided the conceptual, preliminary, Right-of-Way and final design of this one-mile-long complex urban VTrans Municipal Assistance Section (MAS) project. We worked with the Town and local groups to incorporate input in order to best meet the community's needs.

This ACEC-VT grand award-winning project was a comprehensive included the complete roadway design including streetscape, landscape design, development of traffic control plans, design of a comprehensive closed drainage system, replacement of sewer and water systems, utility relocations, permitting, and the development of contract plans and specifications. We designed the temporary traffic control to accommodate two lanes of traffic during construction to minimize impacts to existing landscape features and to maintain the overall feel of the downtown area during construction. During construction, we responded to contractors' requests for information and design assistance for unforeseen circumstances such as a deteriorating bridge deck. Our team has worked on all six segments of the Pittsford-Brandon corridor over the last 20+ years. Construction was completed in 2021.

Client Contact: David Atherton, Town Manager, Town of Brandon, VT, 802.247.3635, datherton@townofbrandon.com

VT 131 Roadway Improvements

Cavendish-Weathersfield, VT

As part of this 9-mile pavement reclamation project, Fuss & O'Neill worked with the Town of Cavendish and VTrans to design a relocation for a sewer impacted by construction of a new box culvert to replace the existing undersized dry laid stone box culvert.

The project consisted of cold planing, reclaiming, and paving 9-miles of VT 131 located between VT 103 and VT 106. Also included was the design of a slope stabilization with a soil nailed retaining wall, ledge removal, riverbank restoration, new drainage, underdrain, signing and guardrail. The box culvert and municipal sewer were replaced within the 72-hour window specified in the contract documents. Construction was completed in 2021.

Client Contact: Brandon Kipp, VTrans, 802.224.6110, brandon.kipp@vermont.gov

US 5 Traffic Signal and Roadway Improvements

Lyndon, VT

Fuss & O'Neill's professional traffic operations engineers designed safety improvements per the MUTCD and Highway Capacity Manual guidelines at the intersection of US 5 and Red Village Road.

The project added traffic signals with an exclusive left turn phase and railroad preemption. The traffic and railroad signals were placed on new combined railroad/cantilever structures. The project included subsurface utility investigation (SUE) that located water, sewer, drainage and underground electric and was crucial to identifying a location for the mast arm that would not impact these facilities. The 0.8-mile full depth reconstruction project is in an urban location between two railroad crossings and includes five intersections, a box culvert, sidewalk, a closed drainage system, water and sewer upgrades, pedestrian lighting, and stormwater permitting. Roadway design is ongoing.

Client Contact: Bruce Martin, PE, VTrans, 802.595.9653, bruce.b.martin@vermont.gov

VT Route 100 Sidewalk Improvements

Stowe, VT

For this VTrans MAS project, Fuss & O'Neill provided the design for 1,200 feet of sidewalk on Lower Main Street (Route 100).

The design included the realignment of River Road, the connection of the recreation path to the sidewalk, access management, and aerial utility relocation. Drainage improvements were designed to avoid impacts to the Town's water and sewer connections and minimized impacts to the adjacent properties. Fuss & O'Neill also presented at public meetings, developed the Right-of-Way plans, contract plans, cost estimates, bid documents, and construction administration. Construction was completed in 2019.

Client Contact: Harry Shepard, PE, Public Works Director, Town of Stowe, VT
802.253.8770, hshepard@townofstowevermont.org

Pedestrian Accessibility Scoping Study

Pawlet, VT

VT 30 in Pawlet consists of residential, public and commercial properties that do not have safe or adequate pedestrian accommodations.

Fuss & O'Neill conducted public meetings which included the Town, RRPC and VTrans to solicit input from the community and based on feedback prepared several alternatives. The Town was able to use the scoping study submitted in September 2022 to secure a grant from VTrans Municipal Assistance Section to pursue the design of a sidewalk improvement project.

Client Contact: Devon Neary, Rutland Regional Planning Commission, 802.775.0871, devon@rutlandpc.org

Scoping, Speed, and Intersection Studies

Stowe, VT

Fuss & O'Neill prepared Intersection Feasibility Studies for the intersections of VT 100/Moscow Road and VT 100/West Hill Road, as well as a Speed Study for VT 100/ West Hill Road in collaboration with the Town of Stowe and the Lamoille County Planning Commission.

Each of these feasibility studies considered a range of alternatives sensitive to the conditions at each site. A roundabout was selected at Moscow Road, pictured above, and a traffic signal in conjunction with a speed reduction was recommended at West Hill Road due to historic impacts and sight distance restrictions. Our team engaged the public with informational sessions, and we performed traffic analyses.

Client Contact: Rob Moore, Regional Transportation Planner, Lamoille County Planning Commission, 802.851.6347, rob@lcpcvt.org

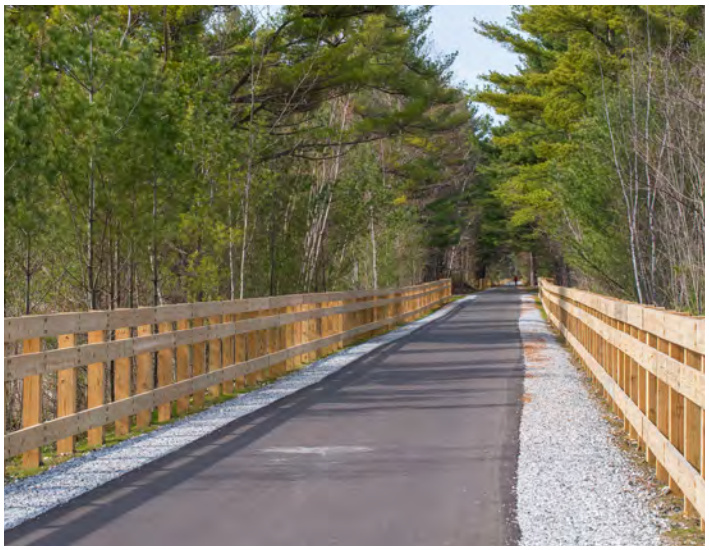
Williston Road Multi-Use Facility

South Burlington, VT

The City of South Burlington has been working towards creating a City Center District with an efficient transportation network that supports pedestrians, cyclists, and public transportation while accommodating automobiles.

The project is located between Dorset Street and Midas Drive and there is a significant amount of vehicular traffic and narrow shoulders that make this section of road undesirable for many bicyclists. Fuss & O'Neill is collaborating with the City to design a paved multi-use facility with a seven-foot-wide landscaped area with pedestrian level lighting, and a twelve foot wide concrete facility suitable for pedestrians and bicyclists of all mobilities. The multi-use facility, pedestrian level lighting, and landscaping improvements will enhance the attractiveness of the area from a "typical" city street to an inviting multimodal environment designed to accommodate all users. As part of the design, Fuss & O'Neill completed infiltration testing and groundwater monitoring to support our stormwater treatment design for this MS4 community. Construction anticipated in 2024.

Client Contact: Ilona Blanchard, South Burlington, 802.846.4101, IBlanchard@southburlingtonvt.gov



Ashuwillticook Rail Trail Extension

Pittsfield, MA

Fuss & O'Neill, in coordination with the City of Pittsfield and the Massachusetts Department of Transportation, provided the design for the 1.56-mile Ashuwillticook Rail Trail extension that completes the 14-mile off-road trail from Adams to Pittsfield. This 10-foot wide shared-use path provides safe walking and bicycling transportation facilities into a commercial area for residents and tourists alike.

Safety features include shaded rest areas and two new parking areas with new lighting. Signage and Rectangular Rapid Flashing Beacons (RRFBs) at key roadway crossings provide additional safety. The trail is fully ADA compliant including the fully plumbed comfort station. Fuss & O'Neill provided wetland delineation, environmental permitting, and extensive stormwater treatment using linear Best Management Practices (BMP's), ROW coordination and easement plan preparation. New sidewalks on Dalton Avenue enhance the connectivity and accessibility to the nearby commercial shopping area. There are also reticulating swing gates for protection from unauthorized snowmobile access. Construction was completed in 2021.

Client Contact: Ricardo Morales, City of Pittsfield, 413.448.9768, rmorales@cityofpittsfield.org

VT 108 Drainage Improvements

Bakersfield, VT

As part of Fuss & O'Neill's 0.65-mile full depth reclamation project through the village of Bakersfield, our team designed extensive drainage improvements that included closed drainage and stormwater treatment.

The project also included new ADA compliant sidewalk, aerial utility relocations, water line modifications, coordination and oversight of video inspections and subsequent subsurface utility mapping efforts, and erosion prevention and sediment control design. Improvements included a new sidewalk, utility relocation, coordination and oversight of pipe video inspection survey and subsequent subsurface utility mapping effort, coordination with the property owners, and presentation at the Public 502 Hearing. Construction was completed in 2021.

Client Contact: Bruce Martin, VTrans, 802.595.9653, bruce.b.martin@vermont.gov

Airport Drive and Kennedy Drive Stormwater Improvements

South Burlington, VT

Fuss & O'Neill completed the Stormwater Scoping Report for Airport Drive to develop stormwater improvements to manage 18.35 acres of runoff.

The Airport Drive stormwater treatment system is an underground infiltration system located on vacant lots owned by the Burlington International Airport. The Kennedy Drive improvements are a retrofit of the existing detention pond into a gravel wetland. Kennedy Drive is located just downstream of the Airport Drive system and will collect additional runoff from Williston Road via a diversion pipe to maximize treatment and detention of runoff. The addition of stormwater treatment along Airport Drive reduces the flow to Kennedy Drive requiring close coordination between the two projects.

Client Contact: Dave Wheeler, City of South Burlington, VT, 802.658.7961, dwheeler@southburlingtonvt.gov

Key Personnel Overview

Every project we work on requires a team effort. For this Municipal Assistance Section (MAS) contract, we have assembled professionals that understand your development process and project goals, and are ready to work with you to develop comprehensive solutions. Resumes for all key personnel follow.

Patricia Shedd
Principal-in-Charge

Patricia will serve as Principal-in-Charge for this contract. When a task order is assigned, Patricia will work with the client to understand its requirements to ensure that the right personnel are assigned to the project. Patricia has been working exclusively for VTrans since 1998, and nobody has a better understanding of the VTrans process.

David Munro, PE
QA/QC Manager

Dave has been a tremendous asset on VTrans projects, and will serve as QA/QC and Project Manager for this contract. He will work to deliver the highest level of quality and constructability on every project. Dave has been working exclusively for VTrans since 1997, and has an exacting understanding of the VTrans process.

Jaime French, PE
Project Manager, Bridges

Jaime will lead any bridge projects that come out of this contract. She has more than 20 years of bridge experience, which includes recent Vermont projects in Putney, Poultney, and Pittsford. She has managed municipal bridge projects during her career throughout New England, and knows the VTrans process very well.

Nicole Fox, PE
Project Manager, Scoping Studies and Bicycle/Pedestrian Facility Design

Nicole will serve as a Project Manager on VTrans projects. Her specialty is bicycle, pedestrian and trail projects, as she managed the Delaware and Hudson Rail Trail project in Southwestern Vermont. She has recently managed many scoping studies in Vermont, and is a founder of our firm's Active Design Group.

Justin Dechen, PE
Project Manager, Water/ Wastewater

Justin will manage water and wastewater projects that we are selected for under this contract. He has more than 21 years of water and wastewater infrastructure experience, and is a Vermont resident who is committed to improving utilities throughout the state.

Daniel Monette, PE
Project Manager, Civil

Daniel is a civil engineer based in our White River Junction office. Having worked with many public clients, Dan has strong knowledge in municipal infrastructure, utility design, environmental engineering, site design, roadway design, heavy civil construction projects, and land use permitting.

Linda Greer, PE, PTOE

Traffic Studies and Signal Design

Originally a roadway engineer, Linda collaborates with clients and Fuss & O'Neill's transportation and community development teams to implement traffic control plans that work. Linda led the traffic planning and design for complex traffic control designs in Royalton and Berlin and is managing the Manchester New Hampshire RAISE Grant project.

Kristen Hayden, PE

Stormwater Treatment

Kristen has a passion for stormwater design, and she has extensive experience designing stormwater and roadway projects throughout New England. She has worked with State Departments of Transportation, including having helped the Rhode Island DOT develop their Stormwater Manual. She has completed stormwater design for projects in Lyndon and South Burlington.

Shannon Beaumont, PE

Hydraulic Analysis and Structural Design

Shannon is a talented structural engineer who is our internal go-to resource for hydraulic analysis. She has worked on projects in South Hero and Cavendish, as well many others during her 20 years with the firm. For this contract, Shannon will be responsible for coordinating hydraulic and structural design needs for task orders.

Andrea Judge, PE

Geotechnical Engineering

Throughout her career, Andrea has completed a wide range of geotechnical engineering projects of varying scale and complexity. She brings a strong practical background to the team, providing expertise in construction engineering, constructability reviews, and preparation of technical specifications.

Stephanie White, PLA, ASLA, LEED AP

Landscape Architecture/Planning

Stephanie has been involved in all facets of the site design and implementation process. Her expertise ranges from sophisticated planting designs, park master planning, housing, education facilities, and, most recently, new urbanism techniques. She is currently working on our South Burlington Multi-Use facility project.

David Lewis, PE

Water and Sewer Design

Dave is an expert in water and sewer design and construction inspection, with more than 30 years of field experience. He brings practical experience to every design. Dave coordinates with utility companies and contractors to ensure that designs are implemented properly. He recently designed the reconfiguration of a gravity sewer on VT Route 131 in Cavendish.

SECTION F
Resumes

Members Advantage Community Credit Union Green Infrastructure, Site Design, Permitting, and Construction – White River Junction, VT

Patricia Shedd

Principal-in-Charge | Project Manager

"I engineer a cost effective solution to improve the safety and mobility in the community regardless of the mode of transportation. I also volunteer with Engineers Without Borders to bring clean and plentiful water supply to villages. Whether it's local or thousands of miles away, there is no better feeling than being part of a team that has improved the lives of others."

pshedd@fando.com 603.222.3482

EDUCATION
AS, Civil Engineering Technologies - 1986 Vermont Technical College

PROFESSIONAL AFFILIATIONS
ACEC - VT
Women in Transportation (WTS)
Engineers Without Borders - NH Professional Chapter

EXPERIENCE
37 Years Professional Experience
24 years with Fuss & O'Neill

Patricia is the Highway Team Lead, Associate, and a shareholder, located in our Manchester, New Hampshire office, and has been involved in a diverse range of traffic and transportation projects as well as survey and civil/site designs. She is responsible for the project planning, scheduling, client coordination, subconsultant coordination, and project overview for a variety of VTrans projects. Patricia has developed close working relationships with personnel in VTrans' Highway, Safety & Design, Municipal Assistance Bureau, Pavement Management and Right-of-Way Sections.

Patricia has worked on all aspects of roadway design including horizontal geometry, vertical alignments, guardrail, superelevation, drainage, signing, pavement markings, EPSC plans, temporary traffic control plans, developing Right-of-Way plans, developing cost estimates and obtaining stormwater discharge permits. She has presented at Selectboard meetings, Public 502 Hearings, the Act 250 Hearings, and Necessity Hearings.

REPRESENTATIVE PROJECTS:

Soil Nailed Wall Constructability Review, At-The-Ready (ATR) Consultant Engineering Services, Highgate, VT

US Route 2/VT Route 314 Intersection Improvements, VTrans, South Hero, VT

US Route 7 over Furnace Brook, VTrans, Pittsford, VT

Williston Road Shared-Use Path and Sidewalk Project, At-The-Ready (ATR) Consultant Engineering Services, City of South Burlington, VT

Kennedy Drive Stormwater Pond 7, At-The-Ready (ATR) Consultant Engineering Services, City of South Burlington, VT

US Route 5 Full Depth Reconstruction, VTrans, Lyndon, VT

VT Route 131 Full Depth Reclamation, Cavendish, VT

US 7 Improvement, VTrans Pittsford-Brandon (Segments 1-5), VT

US 7 Improvements, Town of Brandon (Segment 6), VT

VT 100 Sidewalk Replacement Study, Stowe, VT

David Munro, PE

QA/QC Manager | Project Manager

"It is such a rewarding experience to see my ideas on paper constructed in the real world and in knowing that I have helped to solve a problem and, ultimately, improved public safety, accessibility, and the everyday travel experience."

dmunro@fando.com 603.222.3458

EDUCATION
BS, Civil Engineering - 1994
University of Vermont

LICENSES & REGISTRATIONS
Professional Engineer VT
Professional Engineer NH

PROFESSIONAL AFFILIATIONS
NH Society of Professional Engineers

EXPERIENCE
27 years Professional Experience
25 years with Fuss & O'Neill

David is a Senior Transportation Engineer and has extensive knowledge of AASHTO and state-specific design standards and is responsible for ensuring quality submittals. He does this by providing continual design guidance and support to the project engineers working on highway design projects and by thorough review of plans and documents before submittal.

Dave possesses exceptional MicroStation and InRoads skills and is directly responsible for maintaining and enforcing CAD standards. Dave has worked on all aspects of roadway design including scoping, horizontal geometry, vertical alignments, superelevation, pavement design, drainage, stormwater treatment, utility coordination, guardrail layout, right-of-way plans, pavement marking, and signing. His responsibilities have encompassed all aspects of the design and production of highway plans including typical sections, plans, profiles, cross sections, quantity take-offs, cost estimating and contract documents.

REPRESENTATIVE PROJECTS:

US Route 2/VT Route 314 Intersection Improvements, VTrans, South Hero, VT

VT Route 108 Drainage Improvements, VTrans, Bakersfield, VT

US Route 5, Full Depth Reconstruction, VTrans, Lyndon, VT

US Route 7 Improvements, Brandon, VT

VT Route 15 Intersection Improvements, VTrans, Jericho, VT

Lower Main Street Sidewalk, Stowe, VT

Interstate Renumbering Signing, Statewide, VT

US Route 7 Pownal-Manchester Signing, VT

Signalized Intersections Wallingford, Clarendon, and Rutland Town, VT

South Street Improvements, South Hero, VT

I-91/I-93 Safety Improvement Projects, VTrans, Various Locations, VT

Jaime French, PE

Project Manager | Hydraulic Analysis, Culvert & Bridge Design

"As a bridge engineer, I find it satisfying to figure out how all the pieces of a project fit together, put them on paper, and see a project through construction. I am able to see my ideas come to life in the field."

jfrench@fando.com 603.222.3464

EDUCATION
BS, Civil Engineering - 2000
Michigan Technological University

LICENSES & REGISTRATIONS
Professional Engineer VT
Professional Engineer NH
Professional Engineer ME
Professional Engineer MA

PROFESSIONAL AFFILIATIONS
Women in Transportation (WTS)
Structural Engineers of NH
ACEC - ME

EXPERIENCE
22 Years Professional Experience
22 years with Fuss & O'Neill

Jaime is Fuss & O'Neill's Transportation Department Manager and Bridge Team Lead in our Manchester, New Hampshire office. Her management experience includes working directly with clients, overseeing the technical aspects of projects, directing the activities of our staff engineers, and coordinating with the non-structural disciplines associated with projects. She has more than 20 years of technical experience including the design of steel, reinforced concrete, and precast concrete structures, bridge inspection, bridge rating and construction inspection.

REPRESENTATIVE PROJECTS:

VT Route 102 over Paul Stream, VTrans, Brunswick, VT

I-91 over Lake Morey Outlet, VTrans, Fairlee, VT

Town Highway 6 over Poultney River, VTrans, Poultney, VT

US Route 5 over Sacketts Brook, VTrans, Putney, VT

I-89 over White River, New England Central RR, and VT Route 107, VTrans, Royalton, VT

US Route 7 over Furnace Brook, VTrans, Pittsford, VT

VT Route 108 over the West Branch of the Little River, VTrans, Stowe, VT

Route 7 over Neshobe River, VTrans, Brandon, VT

VT Route 110 over the First Branch of the White River, VTrans, Tunbridge, VT

Queen City Bridge Rehabilitation and Preservation, Manchester, NH

Georges Mill Road over Star Lake Outlet, NHDOT, Springfield, NH

Nicole Fox, PE

Project Manager | Scoping Studies and Bicycle/Pedestrian Facility Design

"My focus in transportation engineering is to use creative solutions to improve safety and mobility for all modes of travel. I enjoy solving puzzles and working out the best design solutions for challenging situations. I see what we do as a way to serve our communities while fulfilling client needs."

nfox@fando.com 603.222.3480

EDUCATION
BS, Civil Engineering - 1999
University of Florida

LICENSES & REGISTRATIONS
NHDOT LPA Labor Comp NH
Professional Engineer ME
Professional Engineer NH
Professional Engineer VA
Professional Engineer VT

PROFESSIONAL AFFILIATIONS
Women in Transportation (WTS)

EXPERIENCE
23 Years Professional Experience
13 years with Fuss & O'Neill

Nicole is a Project Manager with experience in all phases of transportation design and planning. Her practice includes rail trail design, new location trails, bicycle and pedestrian planning and scoping, as well as sidewalks and on-road bicycle lanes and cycle tracks.

Nicole is a skilled listener and excels at fostering open communication between clients, agencies, and other consultants. As a good communicator and team leader, she has excellent project management skills and experience managing municipal and state projects.

REPRESENTATIVE PROJECTS:

Pedestrian Accessibility Scoping Study, At-The-Ready (ATR) Consultant Engineering Services, Pawlet, VT

TAP TA20(9) Pedestrian Scoping Study, At-The-Ready (ATR) Consultant Engineering Services, Castleton, VT

Williston Road Shared-Use Path and Sidewalk Project, At-The-Ready (ATR) Consultant Engineering Services, City of South Burlington, VT

Sidewalk Replacement Study, Stowe, VT

VT 100 and West Hill Road Scoping Study, Stowe, VT

VT 100 and Moscow Road Scoping Study, Stowe, VT

Cornwall-Middlebury VT 125 Scoping Study, VTrans, Cornwall & Middlebury, VT

Community Trail, Dover, NH

NH 11 and Central Street Preliminary Design, NHDOT, Farmington, NH

VT 100 Sidewalk Design, Stowe, VT

Sidewalk Improvements, Jaffrey, NH

Daniel Monette, PE

Project Manager | Water & Wastewater Design

"Civil Engineering is a noble profession, requiring ingenuity and creativity to produce something beneficial to society. Science and mathematics are required to answer complex questions; however, on-site, real world experience teaches us to be practical in our designs."

dmonette@fando.com 802.698.0476

EDUCATION
BS, Civil Engineering - 2008
University of Vermont

LICENSES & REGISTRATIONS
Professional Engineer MA
Professional Engineer NH
Professional Engineer VT
Septic Designer NH
Septic Designer VT

PROFESSIONAL AFFILIATIONS
American Soc of Civil Eng
Assoc State Dam Safety Offcls

EXPERIENCE
13 Years Professional Experience
8 years with Fuss & O'Neill

Dan is a Project Engineer and Designer working out of Fuss & O'Neill's White River Junction, VT office. He has construction engineering and field experience on widespread projects throughout New England. This experience, combined with technical design skills, enables him to prepare complicated utility and site design plans for a diverse range of projects. Additionally, Dan has expertise in the development of permitting packages and bid documents for submittal to federal, state, and local regulatory agencies. These efforts have led him to develop a strong working knowledge in municipal infrastructure, utility design, environmental engineering, civil/site design, roadway design, heavy civil construction projects, and land use permitting.

REPRESENTATIVE PROJECTS:

Castleton Corners – Route VT 4A and VT 30 Sidewalks, STP EH10(4), At-The-Ready (ATR) Consultant Engineering Services, Castleton, VT

Thetford Pedestrian Pathway STP EH09(10) and Thetford Village Pedestrian Improvements STP 0180(10) (constructed simultaneously), At-The-Ready (ATR) Consultant Engineering Services, Thetford, VT

Valley Trail MPM Services, At-The-Ready (ATR) Consultant Engineering Services, Dover, VT

Marbleway Path STP BP21(14), At-The-Ready (ATR) Consultant Engineering Services, West Rutland, VT

Goose Pond Road Reconstruction, Lyme, NH

Sidewalk Design, School Street and Beech Street, Newport, NH

Cheney Street Sidewalk Design, Newport, NH

Ray School Site Design, Parking Areas, Site Walkways, Site Access, Site Utilities and Drainage, Hanover SAU70, Hanover, NH

River Road Feasibility Study and Roadway Relocation, Lyme, NH

Justin Dechen, PE

Project Manager | Water & Wastewater Design

"My work allows me to implement creative solutions to environmental issues. I enjoy the engineering process of working with the team and clients, all towards the same goal."

jdechen@fando.com 860.783.4771

EDUCATION
BS, Aeronautical Engineering - 2001 Rensselaer Polytechnic Institute
MS, Civil Engineering - 2014 Norwich University

LICENSES & REGISTRATIONS
Professional Engineer NH, VT, CT, RI, NY, IA, ID

PROFESSIONAL AFFILIATIONS
Construction Documents Technologist (CDT)
Member of ASCE

EXPERIENCE
21 years Professional Experience
1 year with Fuss & O'Neill

Justin is a Project Manager in our Water and Natural Resources business line. He has a strong technical background in engineering and construction for water infrastructure projects throughout the United States and international market. Justin has extensive experience with control, treatment, and distribution projects for water and wastewater industries. He has been the Subject Matter Expert for a national engineering firm on Sluice, Slide, Flap and Bulkhead water control gates.

REPRESENTATIVE PROJECTS:

Water System Design, Town of Lyndon, VT

Wastewater Design, Village of Lyndonville, VT

Soil Nailed Wall Constructability Review, At-The-Ready (ATR) Consultant Engineering Services, Highgate, VT

School Street to Main Street Stormwater Design, Walpole, NH

Wason Road Off Site Improvement Plan Review, Hudson, NH

Water System Upgrade, Pine Valley Plantation Cooperative Corporation (PVPCC), Belchertown, MA

Old Providence Road Climate resilience, Swansea, MA

Utility Design, Large Government Contractor North Kingston, RI

Wastewater Treatment Plant Review, Town of Peru, NY

The following work was performed prior to joining Fuss & O'Neill:

Wastewater Infrastructure Improvements, Pittsford, VT

Michael Haley, PE, LSIT

Roadway Design

"I've always been interested in the how and why of things; How does this work? Why does it work? Why does it *not* work? Is there a more efficient way to make it work better? Being an engineer lets me ask those questions. The process of developing solutions is fun and it is very satisfying to be able to solve those questions over the life of a project."

mhaley@fando.com 603.222.3479

EDUCATION
BS, Civil Engineering - 2002
Clarkson University

MS, Civil Engineering - 2006
California State University-Los Angeles

LICENSES & REGISTRATIONS
Professional Engineer VT
Professional Engineer NH
Professional Engineer CA
Land Surveyor in Training NH

PROFESSIONAL AFFILIATIONS
NH Society of Professional Engineers
National Society of Professional Engineers

EXPERIENCE
19 years Professional Experience
14 years with Fuss & O'Neill

Mike has nearly 20 years of experience designing a variety of highway and site development projects ranging from bridge approaches, paving and overlay to full depth reconstruction to curb and sidewalk projects. His primary area of expertise is in the development of 3D roadway design models, but he is well versed in all aspects of roadway design. In addition, Mike serves as Fuss & O'Neill's Work Zone Resource Officer on all VTrans projects.

Mike's career path has taken him from New York to California and back to New England where his focus has been on Vermont highway design projects since 2012. He has served as a resident engineer on a number of construction projects which has further enhanced his design skills. Mike is known for being a reliable problem solver who has a commitment to producing quality designs for clients.

REPRESENTATIVE PROJECTS:

US Route 7 over Furnace Brook, VTrans, Pittsford, VT

US 2/VT 314 Intersection Safety Improvement Project, South Hero, VT

US Route 5 Full Depth Reconstruction, VTrans, Lyndon, VT

US 2 Cabot-Danville Right-of-Way, VT

VT Route 100 (Lower Main Street) Sidewalk Project, Stowe, VT

Williston Road Shared-Use Path and Sidewalk Project, At-The-Ready (ATR) Consultant Engineering Services, City of South Burlington, VT

South Street Improvements, South Hero, VT

US 7 Improvements, Pittsford (segments 2, 3 & 4), Pittsford, VT

VT 131 Cavendish-Weathersfield Reclamation, VT

VT 11 Londonderry-Chester Reclamation, VT

John Deskavich, PE, ENV SP

Roadway Design

"I became a transportation engineer because I always had a fascination with the interconnection of roadways and how they impact the community. I get great satisfaction knowing that I contribute to the design and inspection of roadway improvements that enhances safety and efficiency for the community."

jdeskavich@fando.com 413.333.5470

EDUCATION
BS, Civil Engineering - 2017
Syracuse University

LICENSES & REGISTRATIONS
Professional Engineer MA

EXPERIENCE
5 Years Professional Experience
5 years with Fuss & O'Neill

John is a Transportation Engineer in our Boston, MA office. John has experience with roadway and site construction inspection and construction specification development. He is responsible for generating engineering field reports and acts as a main point of contact among the construction team, the design team, and the client. He contributes to the design of roadway and transportation projects and is familiar with MassDOT design standards.

REPRESENTATIVE PROJECTS:

RAISE Connecting Community Design, Manchester, NH

Spring Street and Harrison Boulevard (Rt28) Intersection Improvements Final Design MassDOT 611979, Avon, MA

Improvements at Beech Street, Resnic Boulevard, and West Franklin Street, MassDOT 611965, Holyoke, MA

Ashuwillticook Rail Trail Design, Pittsfield, MA

Six Corners Roundabout, Springfield, MA

King Street (Route 5) Corridor Improvements, Northampton, MA

Lyman (Route 33) and Newton Streets Design, Town of South Hadley, MA

Longmeadow Street (Route 5) and Converse Street Corridor Improvements, Town of Longmeadow, MA

Adams Street at Whitwell Street Intersection Design, City of Quincy, MA

Connecticut Riverwalk Phase II, City of West Springfield, MA

Andrew Judd, EIT

Transportation Engineer

"I am committed to serving my clients by providing technical solutions that increase safety and accessibility for their communities. "

ajudd@fando.com 603.480.5013

EDUCATION
BS, Civil Engineering - 2015
Norwich University

LICENSES & REGISTRATIONS
Engineer In Training NH

EXPERIENCE
7 Years Professional Experience
1 year with Fuss & O'Neill

Andrew is a transportation engineer in our Manchester, New Hampshire office on our Roadway team. He previously worked as a civil engineer for NHDOT, giving him a strong understanding of the standards and procedures of the Department. Andrew will draw from his transportation experience and background at the department to facilitate future transportation projects.

REPRESENTATIVE PROJECTS:

VT Route 279 Resurfacing, VTrans, Bennington, VT

Royalton Bridge Deck Replacements, VTrans, Royalton, VT

I-89 4R Reclaim Project, NHDOT, Warner-Sutton, NH

NH Route 11 Intersection Improvements, NHDOT, Farmington, NH

Bridge Preservation, NHDOT, Hanover, NH

Georges Mill Road over Star Lake Outlet, NHDOT, Springfield, NH

Route 209 Improvements, MaineDOT, Phippsburg, ME

The following work was performed prior to joining Fuss & O'Neill:

Lead Engineer, Pavement Preservation Guardrail Field Review, NHDOT, Statewide Central, NH

Lead Engineer, Pavement Preservation Traffic Control Plan and Guardrail Estimate, NHDOT, Lincoln-Franconia, NH

Michael Delaney, EIT

Roadway Design

"As an engineer I get to better the world around me and help people. What could be better than that?"

mdelaney@fando.com 860.533.5134

EDUCATION
BS, Civil Engineering - 2021
University of Vermont

LICENSES & REGISTRATIONS
Engineer-in-Training VT

EXPERIENCE
1 year Professional Experience
1 year with Fuss & O'Neill

Michael is a Civil Engineer in Fuss & O'Neill's White River Junction, Vermont office. Michael works on a variety of site and civil engineering tasks, including site design, stormwater management, road design, quantity estimation, permitting, and residential wastewater treatment system design.

Michael serves both public and private clients alike. Michael has valuable construction experience and has worked on municipal GPS asset management projects.

REPRESENTATIVE PROJECTS:

Parson's Hill Road to Castleton Corners Sidewalk, Castleton, VT

Highway Resurfacing, VTrans, Bennington, VT

I-89 4R Reclam and Shoulder Widening, NHDOT, Warner-Sutton, NH

Wilmot Center Road Residential Project, Elkins, NH

Wentworth Road Design and Permitting, Walpole, NH

Shoreland Permitting and Stormwater Management, Seth Kaufman, Canaan, NH

Bunker Road Residential Project, New London, NH

School Street to Main Street Stormwater Design, Walpole, NH

Timber Sale Road Surveys, USDA White Mountain National Forest Service, Lincoln Woods Trail, Lincoln, NH

Cluster 1-Drainage Improvements, Hilltop Place Building, New London, NH

Steven Goodwin

Roadway Design

"Transportation has always been a passion of mine. To me, it is not all about the destination. Getting there is half the fun."

sgoodwin@fando.com 802.698.0480

EDUCATION
AS, Civil Engineering - 2010
Vermont Technical College

EXPERIENCE
12 years Professional Experience
12 years with Fuss & O'Neill

Steve is an Engineering Technician in our Transportation department. He works primarily on highway design projects for State and Municipal clients. Steve is experienced in highway, signing and ROW design. He is responsible for creating horizontal and vertical alignments, superelevation, modeling, drafting all plans and details. He has become proficient in SignCAD and signing layout which benefits our signing projects as well as sign needs on our resurfacing, intersection and bridge projects. Steve in knowledgeable in the ROW process and is responsible for ROW plan production and is experienced in MicroStation, InRoads, SignCAD and Estimator.

To complement Steve's design experience, he enjoys construction inspection and monitoring, including preparation of daily work reports, progress meetings and ensuring the project is constructed in accordance with the plans and specifications.

REPRESENTATIVE PROJECTS:

US 2 Cabot-Danville Right-of-Way, VT

US 7 Colchester Exit 16 Right-of-Way, VT

Village Pedestrian Improvements Construction Inspection, Thetford, VT

US Route 4 Signing Project, VTrans, Fair Haven – Rutland Town, VT

Route 105 Resurfacing, VTrans, St. Albans-Sheldon, VT

US Route 2 / VT Route 314 Intersection Safety Improvement Project, VTrans, South Hero, VT

Williston Road Shared-Use Path and Sidewalk Project, At-The-Ready (ATR) Consultant Engineering Services, City of South Burlington, VT

US Route 7 Improvements (Segment 2), VTrans, Pittsford, VT

Pittsford Bridge Replacement, VTrans, Pittsford, VT

VT Route 10/VT Route 11/VT Route 106 Resurfacing, VTrans, Chester-Springfield, VT

Tia Williams

Roadway Design

"As an engineer, I care about our future because we will be living here for the rest of our lives."

twilliams@fando.com 603.222.3472

EDUCATION
BS, Environmental Engineering - 2020
Michigan Technological University

LICENSES & REGISTRATIONS
OSHA 10

EXPERIENCE
2 years Professional Experience
<1 year with Fuss & O'Neill

Tia is a Civil Engineer working our of Fuss & O'Neill's White River Junction, Vermont office. Her background is in environmental engineering, and has performed field inspections across multiple engineering disciplines. Tia has experience in preparing design reports and construction plans, permitting, and cost estimating. She has an understanding of relevant software programs including AutoCAD and Civil 3D.

REPRESENTATIVE PROJECTS:

VTDEC PCB Sampling in Schools, Waite Heindel, Burlington, VT

Dam Engineering Services, Friends of Loon Lake, Croydon, NH

Lower Campus Phase I, Colgate University, Hamilton, NY

The following projects were completed with a previous employer:

Atherton Road Street Rehabilitation and Utility Replacement, Flint, MI

Water Supply Field Inspections, Flint, MI

Shorts Creek Drain Improvements, Saginaw County Department of Public Works, Saginaw, MI

Manhole Inspection, Buena Vista Charter Township, Saginaw County, MI

Jacob Fowler, EIT

Scoping Studies and Bicycle/Pedestrian Facility Design

"As a young student I enjoyed working with my hands and building things more than any other opportunity I had in a classroom. A career where I could continuously use my creativity and still be able to connect with real infrastructure and surroundings was a must for me, becoming an engineer was an easy fit."

jfowler@fando.com 603.222.3465

EDUCATION
BS, Civil Engineering Technologies - 2013
Wentworth Institute of Technology

LICENSES & REGISTRATIONS
Engineer In Training NH

EXPERIENCE
10 years Professional Experience
8 years with Fuss & O'Neill

Jake is a Civil and Transportation Engineer in Fuss & O'Neill's White River Junction, Vermont office. He prepares roadway, sidewalk, grading, drainage and utility drawings to support scoping and design projects. He writes technical specifications, prepares construction cost opinions and assists with construction administration. Construction administration services have included construction observation, addressing contractor RFI and change orders and reviewing pay requisitions. He is highly proficient in AutoCAD and MicroStation.

REPRESENTATIVE PROJECTS:

Munger Street Bicycle Scoping Study, New Haven, VT

Pedestrian Accessibility Scoping Study, At-The-Ready (ATR) Consultant Engineering Services, Pawlet, VT

TAP TA20(9) Pedestrian Scoping Study, At-The-Ready (ATR) Consultant Engineering Services, Castleton, VT

Williston Road Shared-Use Path and Sidewalk Project, At-The-Ready (ATR) Consultant Engineering Services, City of South Burlington, VT

US Route 5, VTrans, Rockingham-Springfield, VT

High Risk Rural Road Signing Projects, VTrans, Statewide South Region

VT Route 102 over Paul Stream, VTrans, Brunswick, VT

US 7 Improvements, Brandon (Segment 2), Pittsford, VT

VT 11 Improvements, Londonderry-Chester, VTrans, State of Vermont

Culvert Replacement Project, Bridport, VT

Amy Johnson, PE

Scoping Studies and Bicycle/Pedestrian Facility Design

"I come from a family of civil and environmental engineers who encouraged my curiosity for how things are built. I bring this curiosity and perspective to the multidisciplinary highway and civil engineering projects I work on at Fuss & O'Neill."

ajohnson@fando.com 401.861.3073

EDUCATION
BS, Environmental Engineering - 2015
University of New Hampshire, Durham

LICENSES & REGISTRATIONS
Professional Engineer ME
Professional Engineer RI
Engineer In Training NH

EXPERIENCE
6 years Professional Experience
4 years with Fuss & O'Neill

Amy is a Project Engineer in our Community Development Business Line in our Kennebunk, Maine office. She provides support for site/civil projects on drainage and grading design, utility design, peer reviews for municipalities, and stormwater permitting assistance in Rhode Island and Massachusetts. She has experience with MassDOT, RIDOT, NHDOT, MaineDOT, NHDES, and MassDEP, design standards and stormwater permitting.

REPRESENTATIVE PROJECTS:

Pedestrian Improvements, Jaffrey, NH

Cider Mill Road Bridge, North Brookfield, MA

Long Lake Road Drainage, Littleton, MA

2 East Main Street Site Plan & LID, Southborough, MA

East Bay Bike Path Improvements, Warren, RI

Fern Drive Stormwater Retrofit, Warren, RI

Blackstone River Bikeway, Central Falls, RI

Design and Permitting of Bicycle Path Connection from Roger Williams University to the East Bay Bike Path, Bristol, RI

Belfield Drive BD Construction and CA, Johnston, RI

I-195 Redevelopment On-call, Providence, RI

Whitwell Ave Neighborhood Resiliency Project Newport, RI

Old Middle School Redevelopment, Woonsocket, RI

Patrick Tierney, PE, ENV SP

Scoping Studies and Bicycle/Pedestrian Facility Design

"My passion is to develop transportation projects that promote healthy lifestyles. Community engagement, safety solutions, active transportation, and open space protection are the cornerstones of my approach to work. My personal lifestyle includes a commitment to coastal activities. This gives me a direct view of the dynamic landscapes that are shaped by climate change and resiliency efforts, fueling a desire address those challenges."

ptierney@fando.com 617.405.5445

EDUCATION
BS, Civil / Environmental Engineering - 2014
University of Massachusetts at Amherst

LICENSES & REGISTRATIONS
Professional Engineer MA
Professional Engineer CA

EXPERIENCE
9 years Professional Experience
7 years with Fuss & O'Neill

Patrick is a Transportation Engineer in our Boston, Massachusetts office. His technical experience includes roadway design, transportation planning, and bridge evaluation. Patrick is certified to evaluate projects for sustainability aspects through the Envision Sustainability (Env SP) credential program. Throughout his career, he has worked on projects ranging from complex bridge load ratings and freeway HOV lane additions to bike trail master planning and local intersection design. Versatile experiences enable him to coordinate effectively with multi-discipline teams to deliver innovative and impactful projects.

REPRESENTATIVE PROJECTS:

Bark St. Sidewalks and Bike Lanes, Swansea, MA

Sandy Pond Complete Streets Design, Ayer, MA

Springside Street Bike Lanes, Pittsfield, MA

West Squantam Street Pedestrian Crossing Quincy, MA

Intersection Improvements at Adams Street at Whitwell Street, City of Quincy, MA

Newport Ave Extension Bridge Study, Quincy, MA

Intersection Improvements at Ricciuti Drive, Willard Street and I-93 Off-Ramp, City of Quincy, MA

Intersection Improvements on Route 28 at Spring Street and Harrison Boulevard, MassDOT, Avon, MA

U.S. Route 6 at Lees River Ave Intersection Improvements, MassDOT 611980, Somerset, MA

Main Street Improvement Project, Greenfield, MA

Green End Avenue Roundabout, Middletown, RI

Linda Greer, PE, PTOE

Traffic Studies and Signal Design

"Family summer vacations meant driving to Ohio to visit my grandmother, each time changing the route for different points of interest. Going from rural highways to metropolitan cities, I realized how roadways changed with traffic demand. Fascinated by traffic moving through the intertwining interstate junctions led me to a career that combines traffic and roadway design, always working to achieve roadway infrastructure to meet society's changing needs."

lgreer@fando.com 603.222.3475

EDUCATION
BS, Civil Engineering - 1997
North Carolina State University

LICENSES & REGISTRATIONS
NHDOT LPA Labor Comp
Professional Traffic Operations Engineer
Professional Engineer ME
Professional Engineer VT
Professional Engineer NH

PROFESSIONAL AFFILIATIONS
American Public Works Assoc
Inst Transportation Engineers
APWA NH Chapter
ACEC - NH
ACEC - ME
WTS-NH

EXPERIENCE
24 Years Professional Experience
8 years with Fuss & O'Neill

Linda leads Fuss & O'Neill's Community Development Team based in the Manchester, NH office. She works collaboratively with municipalities and private developers to integrate her technical expertise to satisfy project requirements. Linda also has a strong history of working with State Departments of Transportation, taking projects from conceptual design through final construction plans. She also has a history of successfully delivering projects with timeline constraints to meet funding or construction schedules. The foundation of Linda's career as a Roadway Engineer was built by combining traffic analysis with construction field experience. Linda's specialty is her ability to develop comprehensive traffic control and maintenance plans on complex roadway, highway and bridge projects.

REPRESENTATIVE PROJECTS:

US Route 7, Segment 6, Traffic Signal Design, Brandon, VT

I-89 Exit 7 Traffic Control, Berlin, VT

VT 131 Traffic Control, Cavendish-Weathersfield, VT

US 5 Traffic Impact, Putney, VT

Route 118 over West Hill Brook, Montgomery, VT

Lyndon Intersection Improvement, Lyndon, VT

I-89, Exit 3 Traffic Control, Royalton, VT

Traffic Control Plan, Queen City Bridge, Manchester, NH

Signal Re-timing for Traffic Control Plan, Granite Street, Manchester, NH

BUILD and RAISE Grant Applications, Alternative Access to South Commercial Street, Manchester, NH

Dartmouth Hitchcock, Wellington Road, Manchester, NH

Matthew Skelly, PE, PTOE

Traffic Studies and Signal Design

"Helping to improve the lives of the people around me has always been at the root of what drives me. I am lucky to have the opportunity to affect real change in my community and make it a better place to live."

mskelly@fando.com 617.379.5892

EDUCATION
BS, Civil / Environmental Engineering - 2006 UMass Amherst

MS, Civil / Environmental Engineering - 2013 UMass Amherst

LICENSES & REGISTRATIONS
Professional Engineer MA
Professional Engineer CT
Professional Engineer NH
Professional Engineer NJ
Professional Engineer RI
Professional Traffic Ops Engineer

PROFESSIONAL AFFILIATIONS
Inst Transportation Engineers
Boston Society of Architects
NBM Highway Assoc

EXPERIENCE
13 Years Professional Experience
9 years with Fuss & O'Neill

Matthew is a Senior Transportation Engineer in the Traffic/ Highway Group of Fuss & O'Neill's Transportation Business Line. He has a wide range of experience in traffic impact analysis, feasibility and planning studies, transit planning studies, traffic calming, traffic signal design, and roadway design. His expertise includes transportation planning, traffic assessment studies, and traffic signal design. Matthew is familiar with Massachusetts and Connecticut Departments of Transportation procedures and permitting processes, as well as roadway and traffic signal construction practices. Computer application experience includes SYNCHRO, HCM, AutoCAD, MicroStation, and Arcview GIS.

REPRESENTATIVE PROJECTS:

US Route 7 and VT Route 140 Signalized Intersection Improvements, VTrans, Wallingford-Rutland, VT

VT 105/VT 104 Traffic Signal Design, VTrans, St. Albans, VT

US Route 7 Improvements, Brandon (Segment 6), VT

Traffic Study, Green Meadows, Hamilton, MA

Traffic Impact Study, 131 Rumford Avenue, Newton, MA

Traffic Review, 78 Narragansett Avenue, Jamestown, RI

Ricciuti Drive Road Safety Audit, Quincy, MA

Quincy Avenue Shared Streets Design, Quincy, MA

Signal Design, West Natick Fire Department, Natick, MA

Traffic Impact Study, 131 Rumford Avenue, Newton, MA

Public Safety Facility Traffic Design, Charlton, MA

Traffic Review, 78 Narragansett Avenue, Jamestown, RI

Katherine O'Shea, EIT

Traffic Studies and Signal Design

"Well-designed transportation infrastructure has the power to transform communities and improve the lives of those who live there. The best part of my job is helping people understand how their roadways, sidewalks, and transit systems can better serve them every day."

koshea@fando.com 617.379.5885

EDUCATION
BS, Civil Engineering - 2020
University of Connecticut

LICENSES & REGISTRATIONS
Engineer In Training MA

PROFESSIONAL AFFILIATIONS
Women in Transportation (WTS)

EXPERIENCE
3 years Professional Experience
3 years with Fuss & O'Neill

Katherine is a Transportation Engineer in the Boston, Massachusetts office with Fuss & O'Neill's Transportation Business Line. Katherine has worked on a variety of projects where she has developed her range of experience in signal design, traffic impact analyses, feasibility and planning studies, transit planning studies, roadway designs, traffic calming and safety projects and public outreach opportunities. Katherine has worked with a variety of municipalities and is familiar with state agencies such as MassDOT, CTDOT, and VTrans and their procedures. Software experience includes SYNCHRO, Sidra, Vissim modeling softwares, and AutoCAD.

REPRESENTATIVE PROJECTS:

VT 105/VT 104 Traffic Signal Design, VTrans, St. Albans, VT

US Route 7 and VT Route 140 Signalized Intersection Improvements, VTrans, Wallingford-Rutland, VT

Intersection Improvements on Route 28 at Spring Street and Harrison Boulevard, MassDOT, Avon, MA

East Street (Route 9) Corridor Improvement 25% Design, MassDOT TIP, Pittsfield, MA

Ricciuti Drive at Williard Street Intersection Improvements, Quincy, MA

Intersection Improvements at Adams Street at Whitwell Street, City of Quincy, MA

North Elm Street Safety Study, Northampton Department of Public Works, Northampton, MA

Main/Berkshire Intersection Assessment and Concept Plan of Improvements, Holyoke, MA

East Side Traffic Study, I-195 Redevelopment District, Providence, RI

Robert Lupien

Traffic Studies and Signal Design

"I love working on traffic projects because I get to help people get where they are going. Nobody likes to sit in traffic, and it's my job to develop and coordinate designs that work for all users."

rlupien@fando.com 603.222.3484

EDUCATION
BS, Civil Engineering - 2019
University of Connecticut

EXPERIENCE
4 years Professional Experience
4 years with Fuss & O'Neill

Robert is a Transportation Engineer that works for Fuss & O'Neill's Traffic Team in our Manchester, New Hampshire office. He provides designs and analyses for traffic signals, management plans, and traffic control on municipal, State and private projects throughout New England.

REPRESENTATIVE PROJECTS:

US Route 4 Signing Project, VTrans, Fair Haven – Rutland Town, VT

Pittsford Bridge Replacement, VTrans, Montpelier, VT

Royalton Deck Replacement, VTrans, Montpelier, VT

Cambridge-Belvidere STP FPAV(69), VTrans, Belvidere, VT

Alternative Access to South Commercial Street, BUILD Grant, Manchester, NH

Traffic Signal Plans, Cate Street Development, LLC and City of Portsmouth, Portsmouth, NH

Queen City Bridge Traffic Control Plan, Manchester, NH

Columbus/Summer Street Intersection Improvements, City of Rochester, NH

Flatley Traffic Study Plan Review, Merrimack, NH

South Elm Multifamily Residential Development, Jones Street Investment Partners, Manchester, NH

Andrea Judge, PE

Geotechnical Engineering

"The best part of my work at Fuss & O'Neill is seeing our designs in construction after the trials of design. I strive to work collaboratively with Contractors and Owners to develop practical solutions to challenges that invariably arrive during construction."

ajudge@fando.com 401.533.5971

EDUCATION
BS, Civil Engineering Technologies - 2004 Dawson College

BE, Civil Engineering - 2008
Concordia Univeristy - Quebec

LICENSES & REGISTRATIONS
Professional Engineer MA

PROFESSIONAL AFFILIATIONS
American Society of Cert Engr Techs
Assoc State Dam Safety Offcls

EXPERIENCE
14 years Professional Experience
7 years with Fuss & O'Neill

Throughout her career, Andrea has completed a wide range of geotechnical engineering, dam engineering improvement and removal projects of varying scale and complexity. Andrea brings a strong practical background to the team, providing expertise in construction engineering, constructability reviews, and preparation of technical specifications. Typical projects have included dam removal and improvement design, dam construction administration services, design of building foundations for vertical construction, waterfront, and bridge structures.

REPRESENTATIVE PROJECTS:

Meeting House Road Bridges, Massachusetts Department of Transportation, Pelham, MA

Lanesborough Bridge Repair Project, Massachusetts Department of Transportation, Lanesborough, MA

Blackstone Roadway Rehabilitation Project, Massachusetts Department of Transportation, Blackstone, MA

Emergency Roadway Repairs, RIDOT - Nate Whipple Highway, Cumberland, RI

Central Bridge Project, Rhode Island Department of Transportation, Barrington, RI

Roadway Drainage Improvements, Johnson and Whales University, East Providence, RI

McCoy Stadium Geotechnical Evaluation, Pawtucket, RI

Geotechnical Investigations and Stability Assessments of Water Supply Dams, Providence Water Supply Board, Kent County, RI

Water Tank Design, Greenville Water District, Greenville, RI

Christopher Cullen, PE

Geotechnical Engineering

"I've always been a detailed-oriented type of person, so a career in geotechnical engineering seemed like a good fit for me. I enjoy the variety and challenges my projects offer and the rewards it brings when I help our clients overcome those challenges."

ccullen@fando.com 603.222.3492

EDUCATION
BS, Civil Engineering - 1983
University of Massachusetts

ME, Geotechnical Engineering - 1986, Virginia Tech University

LICENSES & REGISTRATIONS
Professional Engineer MA

PROFESSIONAL AFFILIATIONS
American Society of Civil Engineers
Association of State Dam Safety Officials

EXPERIENCE
32 years Professional Experience
19 years with Fuss & O'Neill

Chris has 32 years of experience as an engineer and manager of geotechnical engineering projects. Projects include subsurface investigations, analyses, and recommendations for deep and shallow foundation design, earth retaining structures, slope stability studies, seepage analyses, dam design and repair, and forensic studies.

Chris has performed geotechnical studies for commercial facilities, industrial facilities, institutional facilities, and infrastructure including bridges, water towers, and cellular towers in New England and the Southeastern United States.

REPRESENTATIVE PROJECTS:

Pedestrian/Bicycle Path Stability, Burlington, VT

Route 127 Recreational Path Repair, Department of Public Works, Burlington, VT

Geotechnical Analyses, Department of Public Works, Wolfeboro, NH

Pedestrian Bridge and Retaining Wall, Northborough, MA

Herring River Bridge Design, Wellfleet, Massachusetts
Eagle Neck Tidal Restoration Project, Truro, MA

Muddy Creek-Pleasant Bay Culvert Replacement, Chatham and Harwich, MA

Solar Power Canopies, Multiple Locations, Massachusetts, Connecticut, RI

Masonry Tower Stabilization, Coventry, RI

3M Purification Facility Geotechnical Studies, Stafford, CT

Solar Power Canopies Geotechnical Studies, Multiple Locations, MA, CT, RI

Shannon Beaumont, PE

Hydraulic Analysis, Culvert & Bridge Design

"I fell into engineering in college. The courses were intriguing and combined all my strengths into one fascinating package. I've never looked back."

sbeaumont@fando.com 603.222.3485

EDUCATION
BS, Civil Engineering - 2002
Tufts University

LICENSES & REGISTRATIONS
Professional Engineer ME
Professional Engineer NH
Professional Engineer VT
Professional Engineer MA

PROFESSIONAL AFFILIATIONS
American Soc of Civil Eng
Women in Transportation (WTS)
Structural Engineers of NH

EXPERIENCE
20 years Professional Experience
20 years with Fuss & O'Neill

Shannon is a Senior Project Manager in our Manchester, New Hampshire office. Her management experience includes working directly with clients, overseeing the technical aspects of projects, directing the activities of staff engineers, and coordinating with the non-structural disciplines associated with projects. Her years of technical experience include the design of steel, reinforced concrete, and precast concrete structures, bridge ratings and bridge inspections. She is an experienced hydraulics engineer and is proficient at sizing bridges and culverts using accepted methods to calculate flood flows and elevations, including the use of the Army Corps of Engineers Hydraulic Modeling Program HEC-RAS and FHWA's SMS:SRH-2D Riverine Modeling Program.

REPRESENTATIVE PROJECTS:

US Route 7 over Furnace Brook, VTrans, Pittsford, VT

VT Route 2B over the Lamoille Rail Trail, VTrans, St. Johnsbury, VT

Elliot Street Over Whetstone Brook, VTrans, Brattleboro, VT

VT Route 73 over North Fork East Creek, VTrans, Orwell, VT

I-91 Over Barton River, River Road, and CRLRR, VTrans, Irasburg, VT

I-89 over White River, New England Central RR, and VT Route 107, VTrans, Royalton, VT

VT Route 100 over Branch Brook, VTrans, Ludlow, VT

Roaring Brook Road over Roaring Brook, VTrans, Barton, VT

VT Route 114 over Dish Mill Brook, VTrans, Burke, VT

Town Highway 6 over Poultney River, VTrans, Poultney, VT

Ethan Carrier, EIT

Hydraulic Analysis, Culvert & Bridge Design

"Bridges are the lifeline of America. Millions of people use them each and every day without thinking about it. I take great pride in designing and inspecting bridges to make sure that the people who use them remain safe and get to where they need to go."

ecarrier@fando.com 603.222.3461

EDUCATION
BS, Civil Engineering - 2013
University of New Hampshire, Durham

LICENSES & REGISTRATIONS
Engineer In Training NH

PROFESSIONAL AFFILIATIONS
Structural Engineers of NH

EXPERIENCE
10 Years Professional Experience
6 years with Fuss & O'Neill

Ethan is a Senior Bridge Engineer in our Manchester, New Hampshire office. His technical experience includes bridge inspection, bridge rehabilitation, bridge replacement, hydrology and hydraulic analyses and the development and implementation of engineering plans for projects. Ethan has experience in bridge inspection including fracture critical training. He is experienced in different aspects of bridge design such as bridge layout, grading, steel girders, precast / prestressed superstructures, various foundations, bridge rating and cost estimating.

REPRESENTATIVE PROJECTS:

US Route 7 over Neshobe River, VTrans, Brandon, VT

VT Route 118 over Trout River and VT Route 118 over West Hill Brook, VTrans, Montgomery, VT

I-89 over White River, New England Central Railroad, and VT Route 107, VTrans, Royalton, VT

South New Boston Road over South Branch Piscataquog River, Francestown, NH

Queen City Bridge Rehabilitation and Preservation, Manchester, NH

Georges Mill Road over Star Lake Outlet, NHDOT, Springfield, NH

Fields Bridge over East Branch of the Nezinscot River, MaineDOT, Sumner, ME

Kittery Point Bridge (Route 236) over Kittery Point, MaineDOT, Kittery, ME

Gleasondale Road over Assabet River, MassDOT, Stow, MA

Chester Road over Smart Brook, MassDOT, Middlefield, MA

Ryan Trudeau, EIT

Hydraulic Analysis, Culvert & Bridge Design

"As engineers, we have a responsibility to the public, and those who trained us, to utilize each and every available resource throughout the life of a project. It is out of respect for the community, colleagues, and myself that I will perform each task to the best of my abilities."

rtrudeau@fando.com 603.222.3470

EDUCATION
BS, Civil Engineering - 2020
Rensselaer Polytechnic Institute

ME, Structural Engineering - 2020
Rensselaer Polytechnic Institute

LICENSES & REGISTRATIONS
Engineer In Training NY

EXPERIENCE
2 Years Professional Experience
1 year with Fuss & O'Neill

Ryan is a bridge engineer in our Manchester, NH office. He provides design and technical support, including geometric layout, design of steel and concrete beams and substructure elements. He also is responsible for plan preparation, quantity calculations, and development of project estimates. Ryan also has experience with bridge inspections for both evaluations and during construction.

REPRESENTATIVE PROJECTS:

I-91 over Lake Morey Outlet, VTrans, Fairlee, VT

Town Highway 6 over Poultney River, VTrans, Poultney, VT

I-89 over White River, New England Central RR, and VT Route 107, Royalton, VT

Queen City Bridge Rehabilitation and Preservation, Manchester, NH

Georges Mill Road over Star Lake Outlet, NHDOT, Springfield, NH

RAISE Connecting Community Design, Manchester, NH

Bridge Inspection and Management Program, Manchester, NH

Cottage Street Bridge, MassDOT, Great Barrington, MA

Cider Mill Road Bridge, North Brookfield, MA

Chequessett Neck Road Bridge and Mill Creek Dike, Herring River Salt Marsh Restoration, Friends of Herring River, Wellfleet, MA

Leah Cromer, EIT

Hydraulic Analysis, Culvert & Bridge Design

"I've always loved being around water. I am grateful I get to work to improve and protect our water resources."

lcromer@fando.com 802.359.7277

EDUCATION
BA, Geology - 2015
Carleton College

MS, Water Resources Engineering - 2021 Oregon State University

LICENSES & REGISTRATIONS
Engineer in Training OR

EXPERIENCE
2 years Professional Experience
1 year with Fuss & O'Neill

Leah is a Water Resources Engineer in Fuss & O'Neill's White River Junction office. While completing her Master's in Water Resources Engineering, Leah completed several hydraulic modeling projects, including a model of different drawdown scenarios for the removal of the Klamath River dams. Her modeling experience includes HEC-HMS, HEC-RAS, FastMECH, HydroCAD, and ArcGIS. At Fuss and O'Neill, she works on a variety of projects including hydraulic modeling for designing culvert replacements and dam removal scenarios, stormwater modeling, and emergency action plans.

REPRESENTATIVE PROJECTS:

Munger Street Bicycle Scoping Study, New Haven, VT

Holding Pond Dam Inspections, West Dover, VT

School Street to Main Street Stormwater Design, Walpole, NH

Stormwater Retrofit Plan; Dudley, MA

Barker Road Bridge Replacement; Pittsfield, MA

Little River Dam Removal and River Restoration Design; Haverhill, MA

Hop Brook Culvert Replacement, Belchertown, MA

Queensville Dam/Titus Pond Dam Feasibility Study, South Hadley, MA

Resilient Riverfront Renewal, Westerly, RI

Aquidneck Island Stormwater Treatment Unit Feasibility Study; Aquidneck Island, RI

Pierce's Detention Pond Dam Emergency Action Plan Development, Southbury, CT

Stephanie White, RLA, CNU-A, LEED AP

Landscape Architecture/Planning

"What is most rewarding about my job is being able to create memorable and enjoyable places that have positive impacts in the way we live, work, and play."

swhite@fando.com 860.783.4785

EDUCATION
BS, Landscape Architecture - 2001
University of Massachusetts at Amherst

LICENSES & REGISTRATIONS
Reg Landscape Architect CT
Reg Landscape Architect MA
Reg Landscape Architect NH
Reg Landscape Architect RI
LEED-AP
Congress of New Urbanism

PROFESSIONAL AFFILIATIONS
American Soc of Landscape Arch
Congress for New Urbanism
Council of Landscape Arch. Registration Board

EXPERIENCE
21 years Professional Experience
12 years with Fuss & O'Neill

Stephanie is a Project Manager with Fuss & O'Neill's design studio. With more than 20 years of experience, she has been involved in all facets of the site design and implementation process. Her expertise ranges from sophisticated planting designs, park master planning, housing, education facilities, and, most recently, new urbanism techniques. She is a licensed landscape architect and an accredited professional with the Congress of New Urbanism and U.S. Green Building Council. Stephanie holds a Bachelor of Science in Landscape Architecture from the University of Massachusetts Amherst.

Stephanie has been a team member on two award-winning design projects recognized by the American Society of Landscape Architects. With a keen sense of design and attention to detail, she seeks to deliver creative and sustainable solutions to every design challenge.

REPRESENTATIVE PROJECTS:

Williston Road Cycle Track and Sidewalk Project, City of South Burlington, VT

BUILD and RAISE Grant Applications, Alternative Access to South Commercial Street, Manchester, NH

North Street Streetscape Improvements, City of Pittsfield, MA

Barton Street Intersection Improvements and Green Infrastructure, Pawtucket, RI

Discovery Drive Master Planning and Landscape Architectural Services, University of Connecticut, Storrs, CT

Wall Street Corridor Improvements, Norwalk, CT

Town Green Revitalization and Roundabout, Town of Bloomfield, CT

Windsor Locks Transit-oriented Development, Town of Windsor Locks, CT

101 College Street, Winstanley Enterprises, LLC, New Haven, CT

Christopher Scheufler

Landscape Architecture/Planning

"Landscape Architecture is about creating a memorable first impression. I enjoy the opportunity to create that spark of curiosity about what interesting things lay beyond the exterior."

cscheufler@fando.com 413.355.5388

EDUCATION
BS, Landscape Architecture - 2006 University of Massachusetts at Amherst

EXPERIENCE
17 years Professional Experience
1 year with Fuss & O'Neill

Chris is a Senior Landscape Designer in our Community Development Business Line out of our Springfield Massachusetts office. He brings experience working in the Greater Boston Area, as well as western Massachusetts. His approach to every project is founded in creating and maintaining strong client relationships by providing inspirational design services that exceed the expectations of both the owner and end user. Chris uses his diverse set of design skills to create landscapes that are ecologically responsible, budget oriented, and memorable.

Chris has performed as a project manager for a wide array of projects in both the public and private sector including mixed use, public parks and plazas, housing developments, corporate and college campuses, and amenity roof decks. Chris's expertise in site planning, sustainable development, long term performance, and aesthetic appeal are showcased in his relevant projects through the Commonwealth.

REPRESENTATIVE PROJECTS:

RAISE Connecting Community Design, Manchester, NH

Springfield X Corridor Final Design, Department of Public Works, Springfield, MA

Rear Main Street Construction Documents, Gardner, MA

Pepperell Public Safety, Pepperell, MA

Filley Park, Town of Bloomfield, CT

690 Cedar Street Site Development and Remediation, Anthony Properties, Newington, CT

101 College Street, Winstanley Enterprises, LLC, New Haven, CT

The following work was performed prior to joining Fuss & O'Neill:

Mixed-use Development Streetscape Design, National Development, Boston, MA

Mixed-use Streetscape Design, Stantec, Skanska, Boston, MA

Nina Marelli

Landscape Architecture/Planning

"I love that landscape architecture combines art and science to blend our built environment with the natural world. It is rewarding to create living landscapes that preserve community culture and promote a healthier environment for us to enjoy now and in the future."

nmarelli@fando.com 860.783.4761

EDUCATION
BLA, Landscape Architecture - 2011, University of Rhode Island

EXPERIENCE
12 years Professional Experience
2 years with Fuss & O'Neill

Nina recently joined Fuss & O'Neill's Landscape Architecture Team. With more than 10 years of related design experience, Nina draws on her creativity and experience to create master plans, recreational design, streetscapes, multimodal connectivity. Whenever possible, Nina integrates sustainable design practices, repurposing site materials and using native plantings. Though she has only been with Fuss & O'Neill for a short time, Nina has already worked on several important projects. The following summarizes her recent experience.

REPRESENTATIVE PROJECTS:

Webster Parking Lot Green Infrastructure, City of Norwalk, CT

Raceway Drive Improvements, Public Works, Nantucket, MA

MVP Green Infrastructure Assessment, Foxborough, MA

Complete Streets Roadmap, City of New Britain, CT

Multimodal Conceptual Design and Vision, City of Keene, NH

Truman Drive Green Infrastructure, City of Woonsocket, RI

Town Common Master Plan and Green Stormwater Infrastructure, Town of Bristol, RI

Sachuset Bay coastal Resiliency Project, Middletown, RI

Shippee Avenue Final Design, Department of Public Works, West Warwick, RI

Lower Woonasquatucket River STU Design, RIDOT, Providence, RI

David Lewis, PE

Water and Wastewater Design

"Evaluating existing infrastructure for updated use is interesting since it often sheds light on how original designers and builders approached the initial problem. Now with the availability of improved materials, along with advances in design practice, allow us to offer different solutions for the current project."

dlewis@fando.com 603.222.3457

EDUCATION

BS, Forest Resource Engineering - 1988, State University of New York College-Environment

ME, Construction Management - 1999, State University of New York College-Buffalo

LICENSES & REGISTRATIONS

NHDOT LPA Labor Comp NH
LPA Certification NH
Professional Engineer VT
Professional Engineer NH

EXPERIENCE

33 years Professional Experience
23 years with Fuss & O'Neill

David has decades of experience providing municipal, civil, and geotechnical engineering services for both public infrastructure and private development projects. Design and permitting work has included rural and urban roadway design, solid and industrial waste landfills, sewers, and pump stations. He has provided field consultation to owners, designers, and construction managers during both design and construction phases.

REPRESENTATIVE PROJECTS:

Lyndon Water Design, VTrans, Lyndonville Village, VT

Route 7 Bridge over Furnace Brook, Pittsford, VT

Village Pedestrian Improvements Construction Inspection, Thetford, VT

Route 131 Sewer Relocation, Cavendish, VT

Forest Street Bridge and River Street-Dorr Drive Bridge Replacement, VTrans and City of Rutland, VT

Segment 6 Water and Sewer Replacement, VTrans, Town of Brandon, and Brandon Fire District No. 1, Brandon, VT

Stormwater Sample and Inspection, Pelham, NH

South Main Street and Bay Road Utility Improvements, Town of Newmarket, NH

Granite Street Reconstruction, Manchester, NH

Central Square Sidewalk Reconstruction, Safe Routes to School, NHDOT and Town of Troy, NH

Drapers Corners Intersection Improvements, NHDOT and City of Claremont, NH

Kristen Hayden, PE

Stormwater Treatment

"My job allows me to combine my love of math and the great outdoors, which ensures that each roadway I design harmonizes both of these elements without compromise."

khayden@fando.com 603.222.3474

EDUCATION
BS, Civil Engineering - 2002
University of Vermont

LICENSES & REGISTRATIONS
NHDOT LPA Labor Comp NH
LPA Certification NH
Professional Engineer NH

PROFESSIONAL AFFILIATIONS
Women in Transportation (WTS)

EXPERIENCE
20 years Professional Experience
11 years with Fuss & O'Neill

Kristen supervises and develops roadway and drainage designs for several large-scale highway projects. She has extensive experience in stormwater and roadway design for municipal and state projects and has an understanding of stormwater regulations in New England, while being proficient in MicroStation and InRoads.

Kristen has led design teams on projects utilizing her fully developed understanding of plan development combined with her technical background and practical experience she makes sound engineering decisions. She also has extensive experience in several states and multiple civil engineering disciplines and has participated in and guided projects from conceptual inception through contract plans.

REPRESENTATIVE PROJECTS:

Williston Road Shared-Use Path and Sidewalk Project, At-The-Ready (ATR) Consultant Engineering Services, City of South Burlington, VT

Kennedy Drive Stormwater Treatment, South Burlington, VT

Airport Drive Stormwater Treatment System Scoping Report and Final Design, South Burlington, VT

VT Route 102 over Paul Stream Bridge Replacement, Brunswick, VT

VT Route 131 over Mill Brook Culvert Rehabilition, VTrans, Weathersfield, VT

VT Route 15 at Browns Trace Intersection Improvements, VTrans, Jericho, VT

US Route 5 Stormwater Treatment, VTrans, Lyndon, VT

Widening Contract 14633H, I-93 Widening from Exit 5 to I-293 Stormwater Treatment, NHDOT, Salem-Manchester, NH

Linear Stormwater Manual, RIDOT, Statewide, RI

A. Cory Dubois, PE

Stormwater Treatment

"I love when I get to explain developments to the public. Watching them realize the potential is when the idea begins to become a reality."

adubois@fando.com 603.222.3456

EDUCATION
BS, Civil Engineering - 2000
University of New Hampshire, Durham

LICENSES & REGISTRATIONS
Professional Engineer NH

EXPERIENCE
22 years Professional Experience
17 years with Fuss & O'Neill

Cory is a Senior Project Engineer in our Manchester, New Hampshire office. He has over twenty years of experience working on a variety of civil/site design projects including grading, drainage, layout, and local, state, and federal regulatory permitting. Cory also has experience interconnecting the technical aspects of civil engineering to the general community, particularly with performing planning board drainage reviews and roadway improvement design projects.

REPRESENTATIVE PROJECTS:

VTrans I-89, Royalton-Middlesex, VT Signing

VTrans I-89, Waterbury-Winooski, VT Signing

RAISE Connecting Community Design, Manchester, NH

South Commercial Street Extension, Manchester, NH

Manning Hill Subdivision Roadway Design, Manchester, NH

Site and Roadway Design, River's Edge, Manchester, NH

Wetland Impact Plan, Eversource, Hinsdale, NH

Factory on Willow Apartments Site Design, Manchester, NH

Residential Senior Housing Development Site Design, Blackstone Reserve, Raymond, NH

Open Space Planning and Athletic Facility Upgrades, Pinkerton Academy, Derry, NH

Route 125 and Massachusetts Avenue, MassDOT 77853, North Andover, MA

Alan Vomacka, EIT

Stormwater Treatment

"Engineering is all about continuous learning and improvement to me. I enjoy learning about how things work in the real world and being able to have an impact on the way areas are developed."

avomacka@fando.com 603.222.3453

EDUCATION
BS, Civil Engineering - 2014
University of Rhode Island

LICENSES & REGISTRATIONS
Engineer In Training RI

EXPERIENCE
7 years Professional Experience
4 years with Fuss & O'Neill

Alan is an Engineer with our Transportation team in the Manchester, New Hampshire office. He works with our team to design roadway, water, sewer, drainage and stormwater treatment and perform quantity calculations, cost estimates and permit applications. His background in commercial and residential site design and development provides him with a unique perspective on our team. Alan is proficient in MicroStation, InRoads, Connect, OpenRoads, HydroCAD, and AutoCAD Civil 3D.

REPRESENTATIVE PROJECTS:

Williston Road Shared-Use Path and Sidewalk Project, At-The-Ready (ATR) Consultant Engineering Services, City of South Burlington, VT

Kennedy Drive Stormwater Treatment, South Burlington, VT

Airport Drive Stormwater Treatment System Scoping Report and Final Design, South Burlington, VT

US Route 7 Improvements (Segment 2) Stormwater Treatment, VTrans, Pittsford, VT

Sewer Design, VTrans Roadway Reconstruction of US 5, Lyndon, VT

US Route 5 Stormwater Treatment, VTrans, Lyndon, VT

Wastewater Design, US 5 Town of Lyndon, VT

Water Design, US 5 Village of Lyndonville, VT

US Route 2 / VT Route 314 Intersection Safety Improvement Project, VTrans, South Hero, VT

US Route 7 over Furnace Brook, Bridge Replacement, VTrans, Pittsford, VT

Celicia Boyden, EIT, MS

Stormwater Treatment

"I enjoy the multidisciplinary nature of working as an environmental engineer. From water quality sampling to flood mitigation design, I love solving problems and helping communities manage their water resources."

cboyden@fando.com 401.533.5973

EDUCATION
BS, Environmental Engineering - 2014, University of Connecticut

MS, Environmental Engineering - 2019, Johns Hopkins University

LICENSES & REGISTRATIONS
Engineer In Training CT

EXPERIENCE
8 years Professional Experience
8 years with Fuss & O'Neill

Celicia joined Fuss & O'Neill in 2015 after working at the U.S. Geological Survey (USGS). As a Water Resources Engineer based out of the company's Providence, RI office, Celicia draws on her applied science and engineering-based education to implement ecological improvements throughout New England. Her projects are focused on stormwater management, flood mitigation, habitat restoration, and water quality improvement. While working full-time at Fuss & O'Neill, Celicia simultaneously completed a Master's degree in the Environmental Engineering and Science for Professionals Program at Johns Hopkins University. She brings a positive attitude that augments her technical strengths and diverse work experience.

REPRESENTATIVE PROJECTS:

Water Quality Sampling and Stormwater Discharge Monitoring, RI

Island Waters Wet Vegetated Treatment System (WVTS) Design, Aquidneck Island Planning Commission, Portsmouth and Middletown, RI

Linear Stormwater Manual, RIDOT, RI

Citizens Bank Stormwater Improvements, Lower Woonasquatucket River, Providence, RI

Mettatuxet Stormwater Improvement Project, Narragansett, RI

Shippee Avenue Green Infrastructure Plan, West Warwick, RI

Shippee Avenue Drainage Improvements, West Warwick, RI

Lower Woonasquatucket Stormwater Control Plan, Providence, RI

Narrow River TMDL Best Management Practices, Town of South Kingstown, RI

Heidi Quesada, LLS, PLS

Survey/Right-of-Way

"Nothing is more exciting than exploring the sights, challenges, and adventures each new project brings."

hquesada@fando.com 603.222.3463

EDUCATION
BA, Political Science - 1987
University of Massachusetts at Amherst
AS, Architectural Engineering Technology - 2006
New Hampshire Technical Institute (Concord)

LICENSES & REGISTRATIONS
Land Surveyor MA
Land Surveyor NH
Septic Designer NH
Septic System Evaluator NH

PROFESSIONAL AFFILIATIONS
MA Land Surveyors
Granite State Designers Installers
NH Land Surveyors Association
National Society of Prof Surveyors
VT Society of Land Surveyors
ME Society of Land Surveyors

EXPERIENCE
33 years Professional Experience
21 years with Fuss & O'Neill

Heidi has over 30 years of experience in land and title research and is a licensed subsurface disposal system designer and evaluator. As a land surveyor she has been able to combine these skills in her daily tasks. She is responsible for researching land, owner, and right-of-way information at various registries, town offices, and government agencies throughout Massachusetts, New Hampshire, Maine, and Vermont for various projects. She also performs survey note reduction, computations, the detailing and generation of worksheets and plans, boundary and right-of-way determinations, and prepares field crew assignments. While working in the field Heidi has been involved in various construction layout projects ranging from large commercial facilities to residential subdivisions, from extensive urban topographic plans to rural boundaries.

REPRESENTATIVE PROJECTS:

US 2 Right-of-Way & Title Abstracts, VTrans, Cabot-Danville, VT

US 5 Title Abstracts, VTrans, Brattleboro, VT

U.S. Route 2 Culvert Replacement, VTrans, Lunenburg, VT

Six Bridge Deck Rehabilitations, VTrans, Various Locations, VT

Roaring Brook Road Bridge Replacement, VTrans, Barton, VT

US 2/US 7 Exit 16 Right-of-Way Plans and Title Abstracts, VTrans, Colchester, VT

Survey Services, VTrans, Thetford-Fairlee, VT

US 7 Right-of-Way Plans and Title Abstracts Segments 3 & 4, VTrans, Pittsford, VT

VT 109 Survey, VTrans, Cambridge, VT

Elm Street/Gaslight District Improvements, Manchester, NH

Gregory Brown, LLS, PLS

Survey/Right-of-Way

"From protecting lands with conservation easements to developing lands for improvements, I find providing the solid foundation for these projects through land surveying to be both challenging and rewarding."

gbrown@fando.com 603.222.3462

EDUCATION
AS, Civil Engineering Technologies - 1983
Hudson Valley Community College (NY)

LICENSES & REGISTRATIONS
Land Surveyor ME
Land Surveyor VT
Land Surveyor NH

PROFESSIONAL AFFILIATIONS
NH Land Surveyors Association
National Society of Prof Surveyors
Vocational Partnership Foundation

EXPERIENCE
41 years Professional Experience
36 years with Fuss & O'Neill

Greg is in charge of the daily administration of Fuss & O'Neill's land surveying services in New Hampshire, Maine, and Vermont. His responsibilities include project scheduling, supervision of field and office personnel, quality control, project management, boundary re-establishment and/or determination, and technical supervision. Greg has been involved in numerous residential, commercial, municipal, state, and construction survey assignments, as well as the organization and performance of various GPS control surveys throughout New England.

REPRESENTATIVE PROJECTS:

US 2 Right-of-Way & Title Abstracts, VTrans, Cabot-Danville, VT

US 5 Title Abstracts, VTrans, Brattleboro, VT

U.S. Route 2 Culvert Replacement, VTrans, Lunenburg, VT

Six Bridge Deck Rehabilitations, VTrans, Various Locations, VT

Roaring Brook Road Bridge Replacement, VTrans, Barton, VT

US 2/US 7 Exit 16 Right-of-Way Plans and Title Abstracts, VTrans, Colchester, VT

Survey Services, VTrans, Thetford-Fairlee, VT

US 7 Right-of-Way Plans and Title Abstracts Segments 3 & 4, VTrans, Pittsford, VT

VT 109 Survey, VTrans, Cambridge, VT

Granite Street Reconstruction, Manchester, NH

South Street / Downtown Improvements, Milford, NH

Joshua Robinson

Environmental Assessment/Remediation/ Hazardous Materials

"The best part of my job is contributing to the transformation of a blighted parcel into something that protects human health and the environment and aids in the revitalization of a community."

jrobinson@fando.com 401.533.5963

EDUCATION
BA, Environmental Studies - 2013
Saint Lawrence University

LICENSES & REGISTRATIONS
Asbestos Inspector VT

EXPERIENCE
10 years Professional Experience
5 years with Fuss & O'Neill

Josh is a Senior Environmental Scientist in Fuss & O'Neill's Environment and Facility Services Business Line in Vermont and New Hampshire. He has managed and served as a Project Scientist on a wide range of environmental projects throughout New England and New York, including those on Brownfield sites, for residential and commercial developments, as part of roadway and transportation improvements, and at industrial facilities. He has participated in and overseen geotechnical analyses, environmental investigations, remedy implementation, project planning, and permitting activities. He has experience working with regulators, project stakeholders, subcontractors, as well as both internal and external project teams to provide efficient and thorough solutions for private entities, municipal clients, and non-profit organizations.

REPRESENTATIVE PROJECTS:

Valley Trail MPM Services, Dover, VT

Linear Roadway Construction Environmental Investigation and Permitting, VTrans, South Hero, VT

VT Route 108 Drainage Improvements and Environmental Services, STP SCRP(11), VTrans, Bakersfield, VT

Burlington High School PCB Soil, Building Materials, Air Investigation, and Third-party Oversight, Burlington School District, Burlington, VT

Cycle Track & Pedestrian Improvements STP BP17(9), South Burlington, VT

Middle Road Culverts Scoping Study, Bridport, VT

Lead Investigation, VTrans, Fair Haven, VT

40 Fountain Street Hazardous Materials Management, Nordblom, Providence, RI

Environmental Services for Site Redevelopment, I-195 Redevelopment District, Providence, RI

Robert Montgomery

Environmental Assessment/Remediation/ Hazardous Materials

"Every project I work on is an opportunity to make it safer for my client and community. I take pride in my work knowing I am able to provide a safe solution."

rmontgomery@fando.com 603.222.3455

EDUCATION
BS, Environmental Science - 1999
Johnson State College

LICENSES & REGISTRATIONS
Asbestos Project Monitor VT, NY
Asbestos Inspector VT, NY
Asbestos Project Designer VT, NH, NY
Asbestos Mgmt Planner VT
Lead Inspector VT
Mold Assessor NY

PROFESSIONAL AFFILIATIONS
Certified Indoor Environmentalist Consultant
Indoor Air Quality Association

EXPERIENCE
21 years Professional Experience
< 1 year with Fuss & O'Neill

Rob is a Senior Project Manager with a broad background in environmental services spanning more than 20 years. He has provided a single point of contact for state agency, legal, pharmaceutical, retail, manufacturing, academic, and health care clients. Rob is responsible for assisting his clients in maintaining OSHA, DOH, DEC, and EPA compliance by performing and managing OSHA and environmental audits, developing personal exposure monitoring programs, conducting workplace training, performing hazardous waste characterization and sampling, conducting Indoor Air Quality (IAQ) assessments, and Phase I and II Environmental Site Assessment studies including the oversight of drilling, excavation, and underground storage tank removal activities. He is also experienced in the management of Brownfield site work, the development and management of PCB related site activities, and has extensive public speaking experience ranging from work place training to industry conferences. Rob regularly corresponds with Federal, State, and Local regulatory agencies. He regularly prepares cost estimates, proposals, and project reports for all types of environmental consulting projects.

REPRESENTATIVE PROJECTS:

Burlington High School PCB Soil, Building Materials, Air Investigation, and Third-party Oversight, Burlington School District, Burlington, VT

The following projects were prior to joining Fuss & O'Neill:

PCBs in School Air Contract, Vermont Department of Environmental Conservation, Statewide, VT

Environmental and OSHA Compliance, CVPH Medical Center, Plattsburg, NY

Environmental and OSHA Compliance, W. Schonbek LLC, Plattsburg, NY

Environmental and OSHA Compliance, Vermont Agency of Transportation, Statewide, VT

Environmental and OSHA Compliance, Shipman and Goodwin, VT and NY

OSHA Compliance, Veterans Administration Medical Center, Statewide, VT

Building Sciences, Vermont Department of Buildings and General Services, Statewide, VT

Environmental Services, City of Burlington, VT

Allen Pigeon, LEED AP

Lighting

"It's a great feeling to know that the electrical designs I create make an important difference to people's lives on a daily basis. I love being able to drive by a building and know that I designed the exterior lighting or fire alarm system that keeps people safe, or the backup generator that gives them a warm place to stay after an extended power outage."

apigeon@fando.com 860.783.4644

EDUCATION
AS, Mechanical Engineering - 1985, Thames Valley State College
AS, Engineering Science - 2011 Quinebaug Valley Community-Tech. College

LICENSES & REGISTRATIONS
LEED-AP
Lighting Certification

PROFESSIONAL AFFILIATIONS
Phi Theta Kappa
Epsilon Pi Tau
Illuminating Engineering Soc
National Fire Protection Assoc

EXPERIENCE
37 years Professional Experience
18 years with Fuss & O'Neill

Allen is the Senior Electrical Designer in our Manchester, Connecticut office. His experience involves the design of electrical systems associated with buildings. This includes the code research, calculations, preparation of specifications and drawings, cost estimating and construction administration.

Allen's areas of expertise in electrical design include coordination with utility companies, site electrical distribution, site lighting, building power distribution, emergency power distribution, interior lighting, fire alarm, public address systems, and data and telecommunication systems. Projects have included police & fire stations, wastewater treatment facilities, parks, schools and office buildings.

REPRESENTATIVE PROJECTS:

Bicycle Track & Pedestrian Improvements STP BP17(9), South Burlington, VT

Pedestrian Scoping Study TAP TA20(9), Castleton, VT

Crosswalk LED Lighting Design, Enfield, CT

Lighting Fixture Design along Main Street and Elm Hill Road, Vernon, CT

Lighting Design, Evergreen Walk, South Windsor, CT

Lighting Design, Edgewater Hill Mixed-Use Development, East Hampton, CT

Lighting Analysis, Car Dealership, Bristol, RI

Lighting Analysis, Goodrich Manufacturing Facility, West Hartford, CT

Road Diet and Roundabout Design, City of New Britain, CT

UConn Babbidge Library Emergency Lighting Upgrade Storrs, CT

Six Corners Roundabout, City of Springfield, MA

Jacqueline Dagesse

MBA, CPESC

Director of Environmental Services / Project Outreach Manager

11 Years with EIV

15 Years of Experience

EXPERIENCE

PRESIDENT / DIRECTOR OF ENVIRONMENTAL SERVICES
EIV TECHNICAL SERVICES, WINOOSKI, VERMONT

Ms. Dagesse supports civil projects with environmental permitting and design services. Her expertise includes stormwater design, culvert design, erosion prevention and sediment control design and inspection, aquatic organism passage recommendations, natural resource assessments, hydraulic analysis, and wastewater system design. She routinely performs environmental compliance inspections on civil projects. She has an excellent working relationship with local, state and federal regulators. She has experience with these regulators for the following: Army Corp. of Engineers (ACOE) Section 404 and Section 401, NEPA documentation, Title 19 Stream Alterations Consultation, Act 250, RTE Takings Permit, Construction Stormwater Permit 3-9020, Section 106 coordination, Operational Stormwater Permit 3-9050 and 3-9015, VT Wetlands Permit, and coordination of local concerns meeting.

EDUCATION

University of Vermont,
Masters of Business Administration (MBA)

University of Vermont
B.S. Engineering Management, Concentration in Civil Engineering

PROJECT EXPERIENCE

- **Burlington International Airport, Stormwater Design and Permitting Services -** Ms. Dagesse is the contract and program manager for the EIV team's stormwater services to the Burlington International Airport. She reviews and assists with all BTV project stormwater design, state and local permitting. She routinely completes inspections of all active construction projects at the airport property and oversees coordination with regulators. She reviews and supports her team in creating the annual MSGP and MS4 reports, including updates to the SWPPP, PCP, and FRPs. She works with all levels of the project team to ensure proper maintenance of existing stormwater infrastructure, and continued process improvements for stormwater asset management.

- **St. Albans SCAPSTA-C project –** Ms. Dagesse has provided environmental compliance oversight for the VELCO St. Albans Substation, St. Albans TAP Substation, and TAP transmission line project. Work at the St. Albans substation included replacement of the control building, two power transformers, switcher with the 115kV breaker, and the protection and control system. At the St. Albans TAP substation, the following was installed: a 115kV steel switch stand and operated switch, steel structure to facilitate tap line termination, and remote control equipment in the control building. At the tap line, three pole structures on the west side of the tap station were removed and replaced, and an existing switch was removed.

CERTIFICATIONS & TRAINING

- Certified Professional in Erosion Prevention and Sediment Control (CPESC)

CONTACT: The City Lights Building | 106 East Allen St., Unit 506 | Winooski, VT 05404 | **w.** eivtech.com

Scott Hance, ISA

Arborist / Environmental Inspector

9 Years with EIV

27 Years of Experience

EXPERIENCE

ARBORIST/ENVIRONMENTAL INSPECTOR,
EIV TECHNICAL SERVICES, WINOOSKI, VT

Mr. Hance is a certified arborist who provides planting and landscape feedback during design review and consults on VTrans projects during construction as needed. Additionally, he has supported the VTrans Environmental Section with review and feedback on standard details and the 2018 specifications. During construction, Mr. Hance ensures that appropriate species are installed as required. He is able to identify and prevent issues from occurring in the field.

Mr. Hance is a certified wetland scientist and field naturalist. This expertise, combined with his understanding of environmental permitting, enables him to provide quality environmental oversight for transportation and utility projects under construction. He has also served in the role as Environmental Monitor and EPSC Specialist, required by individual wetland and stormwater permits respectively.

EDUCATION

SUNY COLLEGE,
SYRACUSE, NY
B.S. ENVIRONMENTAL FOREST BIOLOGY

NORTH COUNTRY COMMUNITY COLLEGE AT SUNY,
SARANAC LAKE, NY
A.S. MATH/SCIENCE

PROJECT EXPERIENCE

HARTNESS STATE AIRPORT
Mr. Hance was part of the EIV team providing environmental consulting for proposed improvements at the Springfield, Vermont State Airport (Hartness). Mr. Hance completed field identification of sensitive resources that may receive impacts given runway expansion and associated infrastructure installation. He delineated wetland areas, identified protected bird species within the airport property and protected bat habitat.

STATEWIDE BRIDGE PROGRAM, VT
Mr. Hance continues to provide natural resource assessments and wetland delineations for culvert improvement projects throughout the state.

VELCO, RUTLAND VT
Mr. Hance's duties include flagging all wetlands, archeological areas, rare irreplaceable natural areas, rare, threatened, and endangered species, implementing EPSC best management practices, and permit compliance oversight.

BURLINGTON BIKE PATH, BURLINGTON, VT
Mr. Hance's duties included arborist/landscape consultation as well as environmental compliance oversight.

CERTIFICATIONS & TRAINING

- Certified Wetland Scientist
- ISA Certified Arborist
- Certified Pesticide Applicator
- Natural Shoreland Erosion Control Cert.
- Mist Netting and Banding
- Tree, Plant & Bird Identification
- Amphibian/Reptile Identification
- Soil Sampling
- Aquatic Insect Sampling
- Plant Species Sampling

CONTACT: The City Lights Building | 106 East Allen St., Unit 506 | Winooski, VT 05404 | **w.** eivtech.com

Vermont Survey and Engineering, Inc.

Surveyors and Civil Engineers

79 River Street, Suite 201, Montpelier, Vermont 05602
(802) 229-9138, info@vermontsurvey.com

Andrew McQueeney – Principal/Project Manager

Number of years with firm: 31

Mr. McQueeney has been involved with engineering and surveying since 1985. Before joining Vermont Survey and Engineering, Inc. in 1991, he was employed by McDonald-Sharpe Surveyors and Engineers of Old Saybrook, CT. As CAD Manager, he is responsible for developing AutoCAD, MicroStation and InRoads deliverables as well as overseeing CAD work of others. He has been using AutoCAD software since 1991 and Bentley Systems and Intergraph software since 1998. A Principal of the company since 2009, Mr. McQueeney now coordinates the activities of the field crews and office staff, and acts as Project Manager for the majority of VTrans projects that VSE is involved with.

Mr. McQueeney has been VSE Project Manager for the following VTrans projects:

Structures Projects

Bennington ER BHF 010-1(45)
Bethel BHF 0241(38)
Cavendish ER BRF 0146(13)
Corinth BRO 1447(29)
CULV032-CULV033 Statewide
Fairfield BRO 1448(38)
Hyde Park STP CULV(26)
Lincoln FAS 0188(TH1)
Lunenburg NH CULV(27)
New Haven FAS 0183(TH2)
North Hero-Grand Isle BHF 028-1(26)
Plymouth ER BRS 0149(5)
Rockingham BRF 0126(12)
Ryegate IM CULV(28)
Waterbury IM 089-2(43)
Woodstock BHO 1444(52)

Roadway Projects

Andover-Chester STP 016-1(28) SC
Bakersfield STP SCRP(11)
Brandon-Rochester ER STP 0162(21)
Guilford-Rockingham IM SIGN(44)
Marlboro-Brattleboro NH 010-1(46) SC
Milton IM 089-3(66)
Morristown STP HES 030-2(28)
Randolph-Northfield STP 0187(10) SC
Rutland-Killington NH 020-2(36)
South-Hero STP HES 028-1(22)
St. Johnsbury-Lyndon IM 091-3(50)
Stockbridge-Bethel STP 2910(1)
Waterbury FEGC F 013-4(13)
Williston STP HES 5500(12)
Windsor IM 091-1(64)
Woodstock STP 0241(40)

Professional Affiliations/Education
A.A.S. Surveying and Forestry - Paul Smith's College
Hazardous Waste Operations & Emergency Response OSHA 29 CFR 1920.120

Vermont Survey and Engineering, Inc.

Surveyors and Civil Engineers

79 River Street, Suite 201, Montpelier, Vermont 05602
(802) 229-9138, info@vermontsurvey.com

Stephen Fraser, LS – Principal/Project Manager

VT LS #527
NH LS #971
NY LS #050855

Number of years with firm: 18

Mr. Fraser has been involved with engineering and surveying since 1971. Before joining Vermont Survey and Engineering, Inc. in 2005, he was employed for twenty-five years by the City of Barre as a mapping and surveying specialist. During this period, his responsibilities included maintaining water, sewer, and surface utility maps; GIS mapping using ArcInfo 8.0.3; project design and deed research; municipal surveying and construction layout; assisting all departments with their mapping needs; assisting the public regarding all aspects of property ownership; and E 911 liaison.

Since joining Vermont Survey, Mr. Fraser has served as Project Manager for survey and right-of-way efforts associated with a twenty-five mile power transmission project in western Vermont, which includes plat preparation and title research on approximately 150 properties. He is also Manager-In-Charge of deed research, property surveys, and plat preparation and is an accomplished AutoCAD operator.

Mr. Fraser has been involved with the following VTrans projects:

Bennington Bypass North NH F 019-1(5)
Bennington AV-FY 15-010
Brandon NH 019-3(496)
Burlington MEGC M 5000(1)
CULV032-CULV033 Statewide
East Montpelier-Marshfield-Plainfield HPRC(1)
Essex-Westford HPRC(2)
Hartford STP 0113(59)S
Hartford STP BIKE(62)
Hartford STP EH09(15)
Hartford STP EH10(18)
Middlebury AIR 04-3181
Morristown STP HES 030-2(28)
South-Hero STP HES 028-1(22)
South Hero STP SHST(1)
Williston STP HES 5500(12)

Professional Affiliations/Education
A.A.S. Civil Engineering Technology (Surveying Major) – VT Technical College
Vermont Society of Land Surveyors
New Hampshire Land Surveyors Association
New York State Association of Professional Land Surveyors

JOHN GORDON CROCK, PH.D.
University of Vermont Consulting Archaeology Program
111 Delehanty Hall, Burlington, Vermont 05405. (802) 656-4310. John.Crock@uvm.edu

EDUCATION:

2000 Ph.D. in Anthropology, University of Pittsburgh
1989 B.A. University of Vermont. Major: Anthropology; Minor: Religion

RESEARCH INTERESTS:

Archaeology of New England and northeastern North America; Archaeology and ethnohistory of the Caribbean Region; World Heritage; Cultural Resource Management; Trade and exchange; Maritime adaptations; Development of inequality; Human colonization of islands; Lithic analysis.

TEACHING:

2011-present Associate Professor University of Vermont Department of Anthropology
Courses include *Introduction to Prehistoric Archaeology*; *Indians of the Northeast: Vermont; Preserving the Past; Caribbean Archaeology; Anthropology of Islands; Field Work in Archaeology*; *Archaeological Laboratory Methods*.
2005-2011 Assistant Professor, University of Vermont Department of Anthropology.

CULTURAL RESOURCE MANAGEMENT:

2000-present Director, Consulting Archaeology Program, Department of Anthropology, University of Vermont. Principal Investigator and Chief Administrator. Exceeds 36CFR Qualifications.

SELECTED REFEREED PUBLICATIONS:

2021 A Deer Camp Forever: Archaeofauna from the Ewing Site. Nanny Carder and John G. Crock. *Archaeology of Eastern North America* 69:103-132.

2019 Natural and Anthropogenic Landscape Change and the Submergence and Emergence of Archaic Age Settlement on the Eastern Edge of the Anegada Passage. John G. Crock. Chapter 5 in *Early Settlers of the Insular Caribbean: Dearchaizing the Archaic*, edited by C. Hofman and A. Antczak, pp. 65-76. Sidestone Press.

2018 Paleoindian Sites, Site Patterning, and Travel Corridors along the Southern Arm of the Champlain Sea. Francis Robinson, IV, John G. Crock and Wetherbee Dorshow. Chapter 17 in: *In the Eastern Fluted Point Tradition, Volume 2*, edited by Joseph Gingerich, pp. 326-350. University of Utah Press.

2017 Early and Middle Paleoindian Settlement Patterns and the Late Pleistocene Environment along the Champlain Sea. Francis Robinson, IV, John G. Crock and Wetherbee Dorshow. *PaleoAmerica*. DOI=10.1080/20555563.2017.1380997

2017 "Marineness," the Underwater Seascape and Variability in Maritime Adaptations in the Late Ceramic Age Northern Lesser Antilles. John G. Crock, Nanny Carder and Wetherbee Dorshow. *Environmental Archaeology* 24(10):199-210.

2012 Maritime Mountaineers: Paleoindian Settlement Patterns on the West Coast of New England. John G. Crock and Francis W. Robinson, IV. In *Late Pleistocene Archaeology and Ecology in the Far Northeast*, edited by Claude Chapdelaine. Texas A&M University Press.

2012 A Pre-Columbian Fisheries Baseline from the Caribbean. Nanny Carder and John G. Crock. *Journal of Archaeological Science*. 39(10):3115-3124.

2011 Diet and Rank in a Caribbean Maritime Society. John G. Crock and Nanny Carder. *Latin American Antiquity* 22(4):1-22.

2009 Jackson-Gore: An Early-Paleoamerican Occupation in the Green Mountains of Vermont. John G. Crock and Francis Robinson, IV. *Current Research in the Pleistocene* 26:40-42.

OTHER:

33 other publications, 65 professional papers, 28 invited lectures; 150+ technical reports for regulatory archaeology and historic preservation projects.

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