

**RESPONSE TO REQUEST FOR QUALIFICATIONS FOR**

# **At-The-Ready Consultant Engineering Services for Municipalities**

**Municipal Project Management Services**

**Vermont Agency of Transportation**

**Municipal Assistance Bureau**

**March 6, 2020**





Stantec has been providing an array of planning, design, engineering, construction inspection, and project management services to VTrans and the municipalities and communities of Vermont for over 65 years.



# What's inside

- A. Cover Letter
- B. General Firm Information
- C. Municipal Project Management Services
- D. Resumes



A.

# COVER LETTER

Burlington Great Streets, Burlington, Vermont





# A.

# COVER LETTER



**Stantec Consulting Services Inc.**  
55 Green Mountain Drive  
South Burlington, Vermont 05403

March 6, 2020

**Nydia Lugo**

Municipal Assistance Bureau  
Vermont Agency of Transportation  
219 North Main Street  
Barre, Vermont 05641

**RE: RFQ for At-The-Ready Consultant Engineering Services for Municipalities**

Dear Ms. Lugo:

We're active members of the communities we serve. That's why at Stantec, we always design with community in mind. When we take on a project, we see more than a highway, road, bridge, or pond. At Stantec, we look at every challenge as an opportunity to bring communities together. In the face of ever-increasing budget constraints and the need for an expanding range of services, having a trusted team such as Stantec makes sense for your high priority projects requiring multi-disciplined consultation. Our proposed team of engineers and environmental scientists is broadly skilled and has extensive experience with the design, project management, and construction inspection services typically required for projects administered through the VTrans Municipal Assistance Bureau (MAB).

Our staff are recognized regional leaders in transportation and stormwater projects and have worked hand-in-hand with Vermont communities for many years. We have the experience and capacity to provide the highest level of service to our communities for the following reasons:

**We Know the VTrans Project Development Process:** The results speak for themselves. Our team members have provided design, project management, and construction inspection services for over 40 MAB funded transportation and stormwater projects over the last 10 years. Our team knows what it takes to move a project from concept to 100% design and into construction. It is one reason why Stantec has been repeatedly selected by our existing clients.

**We understand Financial Constraints Facing Vermont Municipalities:** Vermonters deserve high-quality services delivered in a reasonable amount of time to avoid unnecessary schedule delays and change orders during construction. First-rate work from a firm that is experienced with state and federally funded projects can result in tens or even hundreds of thousands of dollars saved during construction. Our team has a successful record of doing this for Vermont municipalities. It is our primary goal for every project we work on.

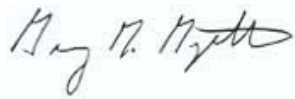
**We Know State and Federal Regulations:** We have knowledge of state and federal regulations. Over 95% of the work done by this team is state and federally funded, meaning these projects meet their requirements and follow their processes. Unique requirements typically include NEPA documentation, state and federal permitting and clearances, and right-of-way acquisition procedures.

**We Are Committed to Vermont:** Living and working in Vermont, and having worked with VTrans and many Vermont municipalities for over 65 years, we are passionate about helping our communities. We believe the best way to do this is to provide quality, innovative, and responsive service. That is our commitment.

We emphasize the depth of our in-house resources, our specific knowledge of MAB projects and processes, and our ability to respond both timely and in sufficient detail to sustain progress and maintain the project schedules. We look forward to continuing to contribute our enthusiasm and skills to improve Vermont's infrastructure and environmental footprint. Thank you for your consideration.

Sincerely,

**Stantec Consulting Services Inc.**



**Greg Goyette, PE**  
Principal, Transportation  
(802) 497-6403  
Greg.Goyette@stantec.com



**Gary Santy, PE**  
Senior Principal, Transportation  
(203) 497-6421  
Gary.Santy@stantec.com



**B.**

# GENERAL FIRM INFORMATION

Winooski River Walk, Winooski, Vermont





# GENERAL FIRM INFORMATION

## Introduction to Consultant

Communities are fundamental. Whether around the corner or across the globe, they provide a foundation, a sense of place and of belonging. That's why at Stantec, we always design with community in mind.

We care about the communities we serve—because they're our communities too. This allows us to assess what's needed and connect our expertise, to appreciate nuances and envision what's never been considered, to bring together diverse perspectives so we can collaborate toward a shared success.

We're designers, engineers, construction inspectors, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe. Projects that we're proud to be a part of and stand behind.

## Company Information

Projects will be completed out of our South Burlington, Vermont office as Stantec Consulting Services Inc., a division of the Stantec group of companies.

### FIRM NAME

Stantec Consulting Services Inc.

### BUSINESS ADDRESS/PHONE/EMAIL

55 Green Mountain Drive  
South Burlington, Vermont 05403  
P: (802) 864-0223 | F: (802) 864-0165  
E: Greg.Goyette@stantec.com | Gary.Santy@stantec.com

### YEAR FIRM WAS ESTABLISHED/ FORMER FIRM NAMES

Stantec Inc. was formed in 1954 in Canada. Stantec Consulting Services Inc., however, was originally incorporated in 1929 as Manhasset Civil Engineers and was eventually acquired by Stantec Consulting Group Inc. in 2004 (later renamed to Stantec Consulting Services Inc. that year). Stantec Consulting Services Inc. established the South Burlington, Vermont office in 2006 following the acquisition of Dufresne-Henry.

## Stantec & Vermont

For 65+ years Vermont municipalities have been, and continue to be, very important clients to our team. We have a strong desire to be involved in our communities and are prepared to commit the necessary resources to help you succeed. Our deep and talented team offers Vermont municipalities the support of our many local staff who have established relationships with various local, regional, and state officials. As local and experienced staff, we can readily provide the closeness, accessibility, responsiveness, project area familiarity, and local contact to streamline the work and provide successful projects on your schedule.

## Firm's Capabilities to Perform the Work

Our local team of planning, design, and engineering professionals has decades of first-hand experience in Vermont. The South Burlington office staff will lead these services. When needed, support from other regional offices can be readily solicited. These regional offices have over 2,000 staff members who can handle virtually any assignment. The result of this connected team's resources, knowledge, and experience is an unmatched commitment to meet your project's needs.

## Understanding of the Work Required

Through our involvement with the MAB over the last 18 years and working with VTrans on over 15 retainer type contracts that date back to 1992, Stantec team members understand what it takes to successfully plan, design, and construct projects that receive funding through the MAB program. We have worked with MAB and municipal staff to move over 20 projects into construction over the last 10 years, and are currently working on over 15 projects that are in varying stages of project development.

A successful project is the result of identifying project issues and working together to find solutions. This includes the ability to anticipate issues and methods to expedite the project development process. Stantec team members have done this consistently for MAB projects. They understand that team work with municipal representatives and VTrans are paramount to successfully delivering projects. Our team members have a great understanding of not only how to find solutions for design and construction challenges,



*Fort Ethan Allen Sidewalk, Colchester, Vermont*

but also of issues that require early coordination such as utility relocations, environmental permitting, and right-of-way acquisition. The team members shown on the organization chart include specialists in ROW plan and document development, utility coordination and relocation design, and environmental permitting including stormwater, wetlands, Act 250, and local review. Stormwater permitting is a complex issue in Vermont. Team members are very knowledgeable on how requirements apply to transportation projects. We have helped VTrans and ANR develop the Transportation chapter for the recently released and revised Vermont Stormwater Management Manual and are at the forefront of innovative stormwater practices that help municipalities not only meet their regulatory obligations but also improve water quality for our communities.

Team members are also familiar with the “Municipal Assistance Bureau Local Project Guidebook for Locally Managed Projects”. This document is used by Stantec as a framework for developing a detailed scope of work for each assignment and for helping municipalities navigate requirements associated with state and federally funded projects.

Past experience has also proven that having knowledge of the local area and established local relationships are a great benefit. Having worked in Vermont for over 65 years, our team has these qualities and resources. From our experience with working with the VTrans MAB program, we also understand the value of having a team with a wide range of capabilities, experience, and resources. For instance, when VTrans needed specialty public relations material for a number of concurrent construction projects

in the Waterbury area, including the municipally managed roundabout at the intersection of US Route 2 and VT Route 100, Stantec’s graphic artists were available to assist and quickly produce a widely used presentation that was positively received by the community.

Having worked on numerous projects administered through the Municipal Assistance Bureau, our project team understands the constraints our communities are often working with. Project funding is often based on cost estimates prepared during the scoping phase. This project funding is typically capped and any design and construction costs over the budgeted amount often become the responsibility of the municipality. Our team has had numerous successes working with Vermont communities to move these types of projects into construction and within their allotted budgets.

## **How to Work with Stantec**

The organization chart on page 13 includes Stantec’s personnel that are available to support your projects. If a municipality elects to work with Stantec on their project, they can notify Stantec’s Program Manager, Greg Goyette. Greg will then discuss the project with Assignment Managers and assemble the team that has the qualifications and availability to complete the work. The Assignment Manager will then work closely with the appropriate municipal staff to develop a scope of work and fee that fits expectations and budget.

**Program Manager**

<b>Greg Goyette, PE *</b>	802.497.6403	greg.goyette@stantec.com
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**Design Services**

**Assignment Managers**

DESIGN SERVICES		
<b>Gary Santy, PE *</b>	802.497.6421	gary.santy@stantec.com
<b>Greg Goyette, PE *</b>	802.497.6403	greg.goyette@stantec.com
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<b>Mike Fowler, PE *</b>	802.497.6395	michael.fowler@stantec.com
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<b>Marc Foisly, PE *</b>	802.497.6399	marc.foisly@stantec.com
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<b>Amanda Ludlow*</b>	802.497.6435	amanda.ludlow@stantec.com

**Lead Engineers**

<b>Karl Richardson, PE *</b>	802.497.6420	karl.richardson@stantec.com
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<b>Dave Youlen, PE *</b>	802.497.6428	dave.youlen@stantec.com
<b>Glenn Burgmeier, PE *</b>	802.497.6328	glenn.burgmeier@stantec.com
<b>Thad Luther, PE *</b>	802.497.6412	thad.luther@stantec.com
<b>Chris Gendron, PE *</b>	802.497.6402	chris.gendron@stantec.com
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<b>Lauren Meek, PE *</b>	207.887.3440	lauren.meek@stantec.com
<b>Marie Sullivan, PE *</b>	781.221.1246	marie.sullivan@stantec.com
<b>Walt Woo, PE *</b>	781.221.1294	walt.woo@stantec.com

**Subconsultant Support**

SURVEY		
<b>Vermont Survey &amp; Engineering, Inc.</b>	802.229.9138	info@vermontsurvey.com

ARCHEOLOGY / HISTORIC		
<b>Hartgen Archeological Associates</b>	802.387.6020	tjamison@hartgen.com

**Municipal Project Management Services**

**Assignment Managers**

MUNICIPAL PROJECT MANAGEMENT		
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<b>Greg Goyette, PE *</b>	802.497.6403	greg.goyette@stantec.com
<b>Greg Edwards, PE *</b>	802.497.6398	greg.edwards@stantec.com
<b>Thad Luther, PE *</b>	802.497.6412	thad.luther@stantec.com
<b>Rick Bryant, PE *</b>	413.387.4502	rick.bryant@stantec.com
<b>Mike Fowler, PE *</b>	802.497.6395	michael.fowler@stantec.com

**Construction Inspection Services**

**Assignment Managers**

CONSTRUCTION INSPECTION SERVICES		
<b>John Little*</b>	802.497.6411	john.little@stantec.com
<b>Greg Edwards, PE *</b>	802.497.6398	greg.edwards@stantec.com
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**Construction Inspectors**

<b>Bernie Gagnon, PE*</b>	802.497.6432	bernie.gagnon@stantec.com
<b>Doug Campbell, PE*</b>	802.497.6391	doug.campbell@stantec.com
<b>Deron Barnes*</b>	802.497.6323	deron.barnes@stantec.com
<b>Caela Waite*</b>	802.497.6426	caela.waite@stantec.com
<b>Todd Duguay, PE</b>	802.497.6397	todd.duguay@stantec.com
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<b>Rachel Galus</b>	802.864.0223	rachel.galus@stantec.com
<b>Richard Baker, NICET II</b>	518.218.5851	richard.baker@stantec.com
<b>John Huston, NEICT II</b>	518.452.4358	john.huston@stantec.com

**Subconsultant Support**

MATERIAL TESTING		
<b>S.W. Cole</b>	802.391.4542	info@swcole.com

**Additional Technical Support / Discipline Leads**

PAVEMENT DESIGN		
<b>Mike Fowler, PE *</b>	802.497.6395	michael.fowler@stantec.com

TRAFFIC MANAGEMENT / CONSTRUCTIBILITY		
<b>Dave Youlen, PE *</b>	802.497.6428	dave.youlen@stantec.com
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BIKE / PEDESTRIAN / COMPLETE STREETS		
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TRAFFIC SIGNAL DESIGN		
<b>Thad Luther, PE*</b>	802.497.6412	thad.luther@stantec.com
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RIGHT-OF-WAY		
<b>Harry Petrovs, LS</b>	802.497.6423	harry.petrovs@stantec.com
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TRAFFIC SAFETY & OPERATIONS		
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GEOTECHNICAL		
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STRUCTURES		
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LIGHTING DESIGN		
<b>Maegan Crowley</b>	207.887.3826	maegan.crowley@stantec.com

LANDSCAPE DESIGN		
<b>Bob Corning, RLA, LEED</b>	617.654.6018	bob.corning@stantec.com

STORMWATER DESIGN / ANALYSIS		
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<b>Chris Gendron, PE*</b>	802.497.6402	chris.gendron@stantec.com
<b>Bernadette Callahan, PE</b>	215.665.7181	bernadette.callahan@stantec.com

HYDRAULICS / CULVERT DESIGN		
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<b>Gerard Fortin, PE</b>	603.206.7544	gerard.fortin@stantec.com

VISUALIZATION / CADD / BIM / 3D MODELING		
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<b>John Barone</b>	303.565.6172	john.barone@stantec.com
<b>Steve Magoon</b>	802.497.6413	steve.magoon@stantec.com

ENVIRONMENTAL (CONTAMINATED SOILS, NEPA, PERMITTING)		
<b>Jeff Sterritt</b>	802.383.8724	jeff.sterritt@stantec.com
<b>Leigh Anne Sapienza</b>	603.206.7564	leigh-anne.sapienza@stantec.com
<b>Kevin Walsh</b>	857.415.3921	kevin.walsh@stantec.com
<b>Polly Harris</b>	802.497.6407	polly.harris@stantec.com

UTILITIES (WATER / SEWER, TUNNELING / TRENCHLESS, RELOCATION)		
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<b>Dave Youlen, PE *</b>	802.497.6428	dave.youlen@stantec.com

RAIL		
<b>Tom Knight, PE</b>	802.497.6409	tom.knight@stantec.com
<b>Mike Fowler, PE *</b>	802.497.6395	michael.fowler@stantec.com
<b>Ryan Raske, PE</b>	612.712.2118	ryan.raske@stantec.com

SAFETY		
<b>Tom Knight, PE</b>	802.497.6409	tom.knight@stantec.com

ASSET MANAGEMENT		
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<b>Bill Scarpati</b>	781.221.1165	william.scarpati@stantec.com

GRANT WRITING		
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<b>Greg Edwards, PE *</b>	802.497.6398	greg.edwards@stantec.com

ENGINEERING/TECHNICAL SUPPORT		
<b>Caela Waite*</b>	802.497.6426	caela.waite@stantec.com
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\* Resume included for key staff in Section D.

## Availability Chart

The following chart details availability of key staff members to devote to municipal projects over the next 6 months and an estimate of how much time each staff member has historically worked on municipal projects. It's important to note that, no matter the firm, staff availability will likely change over the life of the prequalification due to new assignments, staff turnover, promotions, and other factors. Stantec's unique depth, breadth, and quality of design professionals in Vermont uniquely positions us to absorb these changes without sacrificing the quality of design services that our clients have come to expect from us. In addition, we have had a very low turnover rate of key staff over the last 10 years, which leads to our clients receiving quality service on a consistent basis.

### 6 - Month Outlook

Team Member	Project Role	Estimated Hours Available Over the Next 6 Months	% Time Typically Spent on Municipal Projects
Greg Goyette, PE	Program Manager, Assignment Manager – Design, MPM	500	50%
Gary Santy, PE	QA/QC, Assignment Manager - Design	500	20%
Dave Youlen, PE	QA/QC, Assignment Manager – Construction Inspection, Lead Engineer, Traffic Management/Constructability, Utilities	500	60%
Greg Edwards, PE	Assignment Manager – Design, MPM, Construction Inspection, Grant Writing	500	20%
Mike Fowler, PE	Assignment Manager – Design, Pavement Design, Rail	400	30%
Israel Maynard, PE	Assignment Manager – Design, Hydraulics/Culvert Design	500	30%
Marc Foisy, PE	Assignment Manager - Design	500	50%
Erik Alling, PE	Assignment Manager – Design, Bike/Ped/Complete Streets	500	85%
Amanda Ludlow	Assignment Manager – Design, Stormwater Design/Analysis	500	50%
Thad Luther, PE	Assignment Manager – MPM, Lead Engineer, Traffic Signal Design	500	50%
Rick Bryant, PE	Assignment Manager – MPM	500	50%
John Little	Assignment Manager – Construction Inspection	500	50%
Karl Richardson, PE	Lead Engineer	500	50%
Todd Duguay, PE	Lead Engineer, Construction Inspection	500	50%
Glenn Burgmeier, PE	Lead Engineer	500	50%
Chris Gendron, PE	Lead Engineer, Stormwater Design/Analysis	500	70%
Dave McNamara, PE	Lead Engineer	500	50%

### 6 - Month Outlook - Continued

Team Member	Project Role	Estimated Hours Available Over the Next 6 Months	% Time Typically Spent on Municipal Projects
Lauren Meek, PE	Lead Engineer	500	40%
Marie Sullivan, PE	Lead Engineer	500	50%
Walt Woo, PE	Lead Engineer, Traffic Signal Design	500	40%
Caela Waite	Engineer/Technical Support, Construction Inspection	500	60%
Bernie Gagnon, PE	Construction Inspection, Traffic Management/Constructability	500	50%
Doug Campbell, PE	Construction Inspection, Utilities	500	75%
Deron Barnes	Engineer/Technical Support, Construction Inspection	500	50%
Andrew McQueeney	Vermont Survey & Engineering	500	50%
Stephen Fraser, LS	Vermont Survey & Engineering	500	50%
Jason Riley	Vermont Survey & Engineering	500	50%
Elise Manning-Sterling	Hartgen Archeological Associates	150	30%
Thomas Jamison	Hartgen Archeological Associates	100	20%
Walter Wheeler	Hartgen Archeological Associates	100	20%
Alan Brown	S.W. Cole Engineering	550	10%
Scott Harmon	S.W. Cole Engineering	500	10%
Thomas Morgan, PE	S.W. Cole Engineering	500	15%

C.

# MUNICIPAL PROJECT MANAGEMENT SERVICES

Waterbury Roundabout, Waterbury, Vermont









# MUNICIPAL PROJECT MANAGEMENT SERVICES

## Qualifications and Experience

Our qualified staff members are just that because they are heavily experienced with providing Project Management Services for VTrans and municipally managed projects. In the past five years we have provided the Project Management Services for over 40 VTrans transportation projects. Our staff is aware that there needs to be an emphasis on tracking the project development process from project initiation through Contract Plans, bidding, and construction. Milestones for each project are continually monitored to determine if the project is proceeding on schedule or not. We keep a very close eye on project activities and schedules with the use of Microsoft Project to ensure that projects move forward as planned. We also try to be proactive and look ahead for issues that could impact the schedule and try to find ways to resolve any issues before they become problems. Our experience as design engineers and project managers on many previous transportation projects helps us recognize potential problems and avoid them, if possible. We have worked closely with VTrans and Municipal Project Managers on many of our previous assignments to keep them informed of the project progress and any issues and will continue to do so in the future.

We believe that one of the keys for providing effective Project Management Services is working as a team member with the goal of completing a quality project, on schedule and on budget. The team members include the Municipal Staff, VTrans Project Manager, VTrans resource sections, and the design consultant. An important part of our duties is to coordinate and facilitate communications between the team members in order to complete a successful project. We feel we have shown the ability to consistently do this on previous assignments. We're confident our team is a perfect match for VTrans and the Municipalities for the following reasons:

## Knowledge of State and Federal Regulations

A project management team needs to have knowledge of state and federal regulations. This team does. Over 95% of the work done by this team is state and federally funded, meaning these projects meet their requirements and follow their processes. Unique requirements typically include NEPA documentation, state and federal permitting and clearances, and right-of-way acquisition procedures.

## Public Participation

A project management team needs to have experience with public participation and facilitation. This team does. With every project comes a public participation process. The success of this process depends on the quality and clarity of information and the managing of public meetings. Experience on over 40 VTrans MAB projects has shown us the value of listening and documenting public concerns and soliciting these concerns in an organized fashion. Our proposed Municipal Project Managers are prepared to assume the role of meeting facilitator. Several have over 35 years of public experience doing so.

## Experience Preparing RFPs and Scope of Services

A project management team needs experience preparing RFPs and Scope of Services. This team does. With most of our retainer or term contracts and with many of our clients, we need to develop the scope of services. This often expedites the process and provides a clear understanding of the needed services. Although scope templates are a good place to start, experience shows they need to fit the project and they need to provide a clear understanding of the project's expectations. Our Municipal Project Managers' experience includes preparing RFPs for VTrans MAB projects and municipal projects.

## VTrans Project Development Process

A project management team needs experience with the VTrans project development process. This team does. Having worked with municipalities and VTrans for 60+ years, managing transportation projects is this team's specialty. It is one reason why Stantec has been repeatedly selected by our existing clients. With this experience, we understand the project development process and methods to expedite the process.



**40+**

Project administration service contracts we've serviced alongside VTrans in the last five years.



*US2/VT 100 Intersection Improvements, Waterbury, Vermont*

## **Administering Projects from Design through Completion**

A project team needs experience administering projects from preliminary design through construction completion. This team does. When VTrans needed additional project managers to assist them with managing consultants, they first turned to Stantec. Four years later, we have been involved with over 40 projects, and continue to support them.

## **We Are Committed to Partnering With You**

Having worked with VTrans and many Vermont municipalities over the years, we have a strong desire to continue these relationships. We believe the best way to do this is to provide quality, innovative, and responsive service. That is our commitment.

## **Our Approach**

To gain a better understanding of each project we're assigned under this contract, we will review the project area, review project plans, and discuss the project with Town Municipal staff. Based on this information, we will assemble a Stantec project management team with the experience, knowledge, commitment, and resources to facilitate the timely completion of the design phase, right-of-way, permits, and utility clearance while complying with all applicable federal, state, and local laws and ordinances.

## **Project Management and Communication**

Our projects typically begin by distributing a written project work plan, followed by a "kick-off" meeting. The work plan clearly establishes all project roles, procedures and responsibilities. It contains all contract details, project milestones, a project directory, management and reporting procedures, and quality control procedures.

Experience has proven that regularly scheduled meetings are the most effective means of maintaining communication, project momentum, and seeking decisions. Our experience suggests that a "kick-off" meeting occur within two weeks of the Notice to Proceed. Subsequent meetings will be scheduled to coincide with work sessions, information collection trips, field review or regulatory agency meetings. The primary purpose of these meetings is to discuss and resolve outstanding issues, assign action items, and report on project progress.

## **Project Schedule**

A project schedule is an essential management tool. It describes the project development process, sets project milestones, provides a means to track project progress and identifies critical path tasks. Using the sequential project task list from the MAB guidelines, a project schedule using Microsoft Project can be developed. We have effectively used this to communicate the steps in the process and understand where the project is in the process.

Team members are prepared to review the project schedule at monthly coordination meetings and discuss possible measures to expedite the process. Potential measures include:

- Confirming input from regulatory agencies, public, and property owners has been considered in the plan development.
- Work with a project steering committee to confirm decisions.
- Begin property owner meetings and the right-of-way waiver process.
- Conducting regular utility relocation meetings to ensure responsiveness from utility owners.
- Discussing methods for schedule compression or recovery at major milestones.

These and solicited additional ideas will be discussed and pursued when appropriate.

## Project Financial Management

A proven method to monitor the project's progress is through monthly reports coinciding with invoicing. Reporting "percent complete by task" and "percent expended by task" provides a method to evaluate the project's financial status. The monthly reports can also include what was accomplished, what work is anticipated next month, and any issue resolution or information needed. The result is an informed manager to address issues and needs.

## Project Constructability and Costs

Team members are prepared to provide ideas for constructability and cost-saving measures. Stantec is very familiar with all types of construction. Two recent projects include the Waterbury VT 100/US 2 roundabout and the Manchester VT 7A/VT 30 roundabout and mini roundabout. Based on experience, potential measures may include:

- Evaluating alternative typical sections – width, depth, and surface.
- Minimizing the number of construction phases with temporary widenings or detours.
- Conducting a value-engineering review.
- Considering the consequential maintenance cost of items.
- Constructability review to minimize potential for change orders.

These ideas and others will be discussed with each Municipality to determine their applicability and value to their project.

## Project Examples

### VTRANS RAIL, STRUCTURES & PAVEMENT MANAGEMENT PROJECT MANAGEMENT SERVICES, STATEWIDE, VERMONT

Stantec has provided project management services on over 50 projects for the Structures, Rail and Resurfacing Sections at VTrans since 2011 following Tropical Storm Irene. The

services provided in connection with these projects included the following:

- Developing and updating project schedules
- Oversight of all project-related activities as outlined in Section III of the VTrans Development Process Manual
- Ensuring projects are developed in accordance with the project schedule, budget, and the VTrans project development process
- Managing an independent design Consultant, including tracking the number of hours billed by the design Consultant against the applicable work orders
- Coordinate project activities with various VTrans Sections, including the Environmental, Geo-technical, Utility, and ROW Sections
- Attend project meetings as needed, including site meetings, public meetings, and meetings with Agency staff
- Coordinate plan reviews, including preparing on-line shared reviews and facilitating the resolution of comments
- Assistance during the Construction Phase, if requested, to coordinate contractor shop drawing submittals and reviews, and coordinate the resolution of design-related questions with the consultant
- Provide project status update reports to the Project Manager on a bi-weekly or as-requested basis

### CONTACT 1

Paul Libby  
Vermont Agency of Transportation  
P: (802) 595-0720  
E: paul.libby@vermont.gov

### CONTACT 2

Matt Bogaczyk  
Vermont Agency of Transportation  
P: (802) 793-5321  
E: matthew.bogaczyk@vermont.gov

## US2/VT100 INTERSECTION IMPROVEMENTS WATERBURY, VERMONT

Putting the needs of the community and our client front and center, we tackled the traffic and safety issues at this existing unsignalized "T" intersection by designing a new roundabout with a number of features requested by the residents and business owners. The US Route 2 and VT Route 100 intersection, built in 1960, was experiencing increasing traffic with over 12,000 vehicles per day and 600-foot queues during peak travel hours. Further, while Route 2 is a village road with children and residents making up a large pedestrian component, Rt. 100 has higher speeds and large trucks heading to Green Mountain Coffee Roasters and affecting pedestrian safety. This was a \$3 Million project completed in 2016.

### CONTACT

Alec Tuscany  
Town/Village of Waterbury  
P: (802) 241-4129  
E: publicworksdirector@waterburyvt.com



## ↑ **WIDENING ROUTE 2 AT I-89 EXIT 14, SOUTH BURLINGTON, VERMONT**

For years, drivers heading to I-89 out of Burlington got trapped in a right-turn-only lane along US Route 2. With both traffic and safety concerns the City of South Burlington needed a solution.

Stantec provided a full range of design services ranging from conceptual design through final design for the construction of a third eastbound lane of US Route 2, an urban arterial with over 40,000 vehicles per day, from the Sheraton Staples intersection to the I-89 southbound on-ramp.

Project elements included bicycle facilities, transit facilities, street lighting, landscaping, utility relocations, stormwater treatment, interconnected and coordinated signal system, and traffic control for highway widening. Stantec also provided NEPA documentation, contract plans, construction cost estimate and permitting meeting VTrans MAB procedures. This \$4 Million project was completed in 2015.

### **CONTACT**

Justin Rabidoux  
City of South Burlington  
P: (802) 658-7961  
E: jrabadoux@sburl.com

### **Key Personnel**

We have a large depth of staff available to perform management, engineering support and design review services. We have designated our best project managers to be available for any assignments that arise out of this contract. With offices throughout North America, our team has significant resources to assist them in completing any assignment. Full resumes for the following staff are in Section D - Resumes.

### **Assignment Managers**

**GARY A. SANTY, PE | QA/QC, ASSIGNMENT MANAGER:** Gary will lead the management of this program. As a co-leader of our New England Transportation

group, Gary has overall responsibility for Stantec services including allocation of staff and resources, contractual matters, and client satisfaction. He has over 40 years of engineering experience, with a focus on highway and traffic engineering. Over these years, he has been involved with hundreds of transportation projects with over 40 in Vermont alone. His experience includes the planning, scoping, permitting, design, and construction of a wide range of transportation projects from the Bennington Route 279 new construction to the reconstruction of 6 VTrans Park-and-Rides. Through this experience, he is very familiar with the VTrans project development process and methods to expedite the process while meeting VTrans procedures, standards and specifications.

As Manager of the South Burlington office, Gary is aware of resources and availability beyond the local transportation group. He has frequent discussions with other office leaders regarding staff availability and work sharing with a focus on client needs and solving unique problems.

### **RELEVANT PROJECTS:**

Widening Route 2 South Burlington, Waterbury Roundabout, East Montpelier Park & Ride, Burlington North St. Revitalization Construction, Rutland Center St Marketplace, Consultant Team Lead on Recent Update to Project Definition Process.

**GREGORY GOYETTE, PE | PROGRAM MANAGER, ASSIGNMENT MANAGER:** Greg will be the point person for VTrans to call upon as new assignments come up. If called, Greg will identify a Project Manager/Project Engineer team for each assignment, and work with them to develop a suitable scope and fee. He will also be available to serve as Assignment Manager depending on project needs and current workload. Greg has worked with the Municipal Assistance Bureau for the last 18 years, and has familiarity with many of the current project supervisors. His technical experience and proven managerial skills make him a great fit for this role.

**RELEVANT PROJECTS:** Essex Route 2A Shared-Use Path, Waterbury Roundabout, South Burlington US 2/I-89 Exit 14 Widening, Waitsfield Village West Sidewalk Project, Waitsfield Old County Road Intersection Re-alignment, Waterbury Stowe Street Sidewalk, Vergennes Train Depot Relocation, Waterbury Farr Road Extension and Bridge Removal, Statewide Safe Routes to School Radar Speed Feedback Signs, Manchester Roundabouts, Enosburg Park-and-Ride, Statewide Park-and-Ride Signage Replacement, Colchester Campus Connector Road, Burlington Church St./ St. Paul St. Improvements, Franklin Sidewalk, Waterbury Park-and-Ride.

**GREG EDWARDS, PE | ASSIGNMENT MANAGER, GRANT WRITING:** Greg has over 30 years of engineering experience, with a focus on highway and traffic engineering. Over these years, he has been involved with hundreds of transportation projects with over 50 in Vermont alone. His experience includes the planning, scoping, permitting, design, and construction of a wide range of transportation



*Manchester Roundabout, Manchester, Vermont*

projects from the Bennington Bypass new construction to the reconstruction of Church and St. Paul Street in Burlington. Through this experience, he is very familiar with the VTrans project development process, specifications, and methods to expedite the process while meeting VTrans procedures, standards and specifications.

**RELEVANT PROJECTS:** Burlington Church and St. Paul Street Reconstruction, Bristol VT 116/North Street/South Street Reconstruction, South Burlington US 2 Staples Plaza Reconstruction.

**THAD LUTHER, PE | ASSIGNMENT MANAGER:**

Thad has served as a Project Engineer and Project Manager for a diverse variety of transportation related projects for over 22 years. His roadway experience includes traffic engineering, signal design, highway geometrics, updating existing intersections, final design of limited access facilities, award winning rural highway upgrades and completion of planning studies for future roadway expansions. He is also experienced with neighborhood enhancement projects that utilize context sensitive design to satisfy multiple stakeholders. Elements of these enhancement projects include roundabouts, traffic calming, sidewalks, and new drainage facilities. Thad successfully combines technical know-how with the ability to facilitate communication between clients, co-workers and the public to complete projects.

**RELEVANT PROJECTS:** Lamplite Acres Green Streets Improvements, Manchester Roundabouts, Burlington Great Streets, VTrans Colchester I-89 Exit 16 Interchange Traffic Congestion and Safety, VT 166 Intersection Upgrade.

**RICK BRYANT | ASSIGNMENT MANAGER:** Rick is a Senior Associate with more than 35 years of consulting experience in New England. He is a transportation

planner and traffic operations specialist with an extensive background in planning, design, permitting and project management of public-sector projects. Richard has developed broad knowledge of state and local permitting regulations and has established strong working relationships with state highway and environmental permitting agencies. He is also an experienced public speaker who can effectively present transportation plans and projects at public hearings and other forums.

**RELEVANT PROJECTS:**

Burlington Great Streets, Waterbury Village Parking Study, Vermont 2A Scoping Study, Industrial Avenue Sidewalk Scoping Study, Industrial Avenue Corridor Study, CCRPC Us Route 7 Scoping Study, Williston Park-and-Ride, Shelburne Proposed Loop Road, Waterbury Village Parking Study, CCRPC Blair Park Williston Pedestrian Facility Scoping Study.

**MIKE FOWLER, PE | ASSIGNMENT MANAGER, PAVEMENT DESIGN, RAIL:**

Mike is a senior project manager and is responsible for managing projects and the preparation of preliminary, final and contract design plans for various transportation projects. This work includes field reviews, developing horizontal and vertical alignment, structural pavement design, drainage design, quantity computations and cost estimating. Spending nearly three decades at the Vermont Agency of Transportation (VTrans), Mike has engineered hundreds of highway infrastructure assets to improve mobility and connectivity for communities throughout the Green Mountain State.

**RELEVANT PROJECTS:** PM Services for VTrans Resurfacing Section, Burlington Great Streets, VTrans Guilford I-91 Welcome Center Pavement Rehabilitation, VTrans Alburgh VT 78 Rail Crossing.



D.

# RESUMES

Diverging Diamond Intersection, Colchester, Vermont







**D.**

# RESUMES

## Key Staff Resumes

On the following pages we've included resumes for our key staff and our subconsultants key staff. Our local team of transportation planning, design, and engineering professionals has decades of first-hand experience in Vermont with design, project management and construction inspection services. Our South Burlington office staff will lead these services and when needed, support from other regional offices can be readily solicited. These regional offices have over 2,000 staff members, many with transportation engineering and traffic management expertise, and environmental specialists who can handle virtually any assignment. The result of this connected team's resources, knowledge, and experience is an unmatched commitment to meet your project's needs.



## **Gary Santy, PE**

### **QA/QC, Assignment Manager**

### **YEARS WITH STANTEC**

42

### **EDUCATION**

Associate in Applied  
Science, Vermont Technical  
College, Randolph, Vermont

### **REGISTRATIONS**

Professional Engineer  
#7563, State of Vermont

Professional Engineer  
#11152, State of New  
Hampshire

Professional Engineer  
#9419, State of Maine

### **MEMBERSHIPS**

Past President, American  
Council of Engineering  
Companies (Vermont)

Past President, Vermont  
Society of Engineers

Member, New Hampshire  
Good Roads Association

Member, Vermont Technical  
College, Civil/Environmental  
Engineering Technology  
Advisory Committee

Gary has over 40 years of experience with Stantec in transportation design, traffic (vehicular, bicycle and pedestrian) management, construction engineering, public participation, environmental documentation, and permitting. He has worked closely with the Vermont Agency of Transportation on dozens of roadway projects, including a high-profile project to create a new limited access bypass (VT Route 279) of US Route 7 and VT Route 9 around Bennington, Vermont. He has provided similar design, management and construction administration services for various other projects for VTrans, New Hampshire DOT, Maine DOT and MassDOT. These projects range from highway and park-and-ride facility design to safety and intersection improvement projects and bridge replacements. As Operations Manager Gary leads the New England Transportation Business Center and supervises design teams, provides quality control and independent reviews, advises staff on technical, administrative and QA/QC procedure.

### **RELEVANT EXPERIENCE**

#### **VTrans - Guilford I-91 Welcome Center Pavement Rehabilitation - Guilford Rest Area IM 091-1(79), Guilford, Vermont**

Principal-in-charge on the development and design of a pavement rehabilitation strategy and generate contract documents for the rehabilitation of the Guilford I-91 Welcome Center, a 114-space car parking area, 23-space truck parking area and more than 1/2 mile of circulating and access roads. Most of the rehabilitation was a cost-effective asphalt mill and overlay. Approximately 700 feet of an access road with more than 10% grades required a reclaimed stabilized base with 5 inches of new asphalt. One of the more challenging aspects of the project was the maintenance of traffic during construction. Working with the facility operators, we developed a performance specification that allowed ramp access closures during a designated 4-hour period and provided an alternative site for truck parking while the car parking was relocated to the truck parking area.

#### **VTrans Berlin CMG PARK(46) PR - Berlin Park-and-Ride Conceptual Design, Berlin, Vermont**

As the existing Park-and-Ride facility at Exit 7 experienced heavier use, consideration was placed to seek additional facility locations within the area. Exit 6 was determined to be a viable option as the State appears to have an available right-of-way to potentially site a facility. The potential site would have easy access and visibility to I-89. VTrans contracted with Stantec to provide conceptual design services to identify and evaluate alternatives for constructing a new park-and-ride facility in the area. One of the first steps was to determine the potential parking demand given its location and area traffic. Using parking demand models, we determined a 60 to 80 space facility was desirable. To meet the parking demand VTrans needed to acquire property in the Exit 6 interchange area. After we evaluated 4 alternatives, one in each quadrant of the East Rd and VT 163 intersection, and working with adjacent property owners, the preferred alternative was selected for the development of conceptual plans. The project included the accommodation of public transit, a bus shelter, bicycle rack, lighting, and other amenities.

#### **Ferrisburgh Park-and-Ride, Ferrisburgh, Vermont**

Senior project manager with responsibility for final design, contract plans and construction assistance for this BO-space lighted, paved and landscaped Park-And-Ride multi modal facility. Unique aspects of this project included a stormwater discharge permit implementing features of the proposed Vermont regulations (bioretention area). An integral part of this project is the planning and coordination with State, City, Town, and local agencies for the future relocation of the Historic Vergennes Train Station (circa 1855).

#### **US 2 / 1-89 Exit 14 Improvements Design, South Burlington, Vermont**

Senior project manager for the final design for the construction of a third eastbound lane of US Route 2, an urban arterial with over 40,000 vehicles per day, from the Sheraton Staples intersection to the 1-89 southbound on-ramp.



## **Greg Goyette, PE**

**Program Manager,  
Assignment Manager**

### **YEARS WITH STANTEC**

19

### **EDUCATION**

M.S., Civil Engineering,  
Clarkson University,  
Potsdam, New York

B.S., Civil Engineering,  
Clarkson University,  
Potsdam, New York

### **REGISTRATIONS**

Professional Engineer  
#8834, State of Vermont

Certified Professional in  
Erosion and Sediment  
Control #3116, CPESC, Inc.

### **MEMBERSHIPS**

President (2009-2011),  
Vermont Society of  
Professional Engineers

President (2011-2012),  
Vermont Society of  
Engineers

Greg has managed and developed numerous transportation and stormwater projects for state, municipal, and private clients. He also has co-managed Burlington International Airport's Stormwater Compliance efforts over the last five years. Greg primarily focuses on urban / village roadway reconstruction projects and specializes in roundabout, bicycle / pedestrian, and low impact development (LID) stormwater designs. Greg's projects have been recognized in Vermont and New England for innovative design approaches.

### **RELEVANT EXPERIENCE**

#### **VTrans US 2 Main Street Reconstruction, Waterbury, Vermont**

This one-mile crumbling roadway required reconstruction and the community considered this time as ideal to make transformative improvements, especially after being devastated by Tropical Storm Irene in 2011. Greg's team was called upon to work closely with VTrans staff and the Waterbury community to successfully complete the engineering for this project. Our team conducted significant public outreach to understand community needs and discuss project impacts. Multiple project stakeholders were engaged to address project logistics such as utility relocation routing, water and sewer infrastructure impacts, historic resource constraints, hazardous materials mitigation, streetscape design including pedestrian scale lighting, landscaping, wayfinding, parking and business district impacts, and traffic maintenance during construction to name a few. This community outreach effort allowed Stantec to carefully craft a set of plans and bid documents that put a high priority on minimizing the construction impact to businesses, residents, pedestrians, motorists, and the community at-large.

#### **US 2 Intersection, Plainfield, Vermont**

The intersection of US Route 2 and Main Street in Plainfield has long been a nuisance for motorists, pedestrians, and highway crews. The steep grade of Main Street, lack of sidewalks and crosswalks, and the poor intersection sight distance make navigating this intersection a challenge. Greg was the Lead Project Engineer for this project responsible for reviewing existing conditions, developing several alternatives, and presenting these alternatives to VTrans. Stantec identified numerous challenges and helped VTrans select a design solution that would minimize impact to the community during construction and provide a long-term solution. Due to these efforts, VTrans requested that Stantec move the preferred alternative into preliminary engineering.

#### **Burlington Great Streets, Burlington, Vermont**

Project Manager responsible for this redesign of two streets, Bank and Cherry, in downtown Burlington. The redesign prioritized pedestrian safety and movement and maintained the on-street parking needed for the small business. The design incorporated raised intersections, bicycle racks, parklets, seating areas outside popular business and restaurants, green stormwater infrastructure, and public art. Stantec also assisted the City in identifying areas of private parcels needed to support the construction of the plan.

#### **Waterbury Roundabout, Waterbury, Vermont**

Greg was the lead project engineer responsible for designing single lane urban roundabout to improve safety and mobility near I-89 Exit 10 interchange. The design had to carefully consider impacts to traffic during the morning and evening peak traffic periods. A construction sequencing and traffic management plan was developed that carefully considered available space for workers and equipment, safe and efficient flow of traffic, and impacts to I-89 mainline given the proximity of the Exit 10 interchange to the intersection. Traffic management practices included maintenance of existing lane configurations, temporary parking areas, temporary traffic signals, truck detour routes, and restrictions on maximum queue lengths on roadway approaches. The project was constructed on schedule, within budget, and with minimal impacts to the community, traveling public, and the contractor.



## **Greg Edwards,**

PE, ENV SP

**QA/QC, Assignment  
Manager, Grant Writing**

### **YEARS WITH STANTEC**

32

### **EDUCATION**

B.S., Civil Engineering,  
University of Vermont,  
Burlington, Vermont

### **REGISTRATIONS**

Envision™ Sustainability  
Professional (ENV SP),  
Institute for Sustainable  
Infrastructure

Professional Engineer  
#5842, State of Vermont

Professional Engineer  
#7247, State of Maine

Professional Engineer  
#6765, State of New  
Hampshire

### **MEMBERSHIPS**

Past Board Member and  
Past President, American  
Council of Engineering  
Companies (Vermont)

Past President & Board  
Member, Society of  
Engineers, State of Vermont

Member, Institute of  
Transportation Engineers

Greg has over 30 years of engineering experience including the planning, design, permitting, quality control, construction and rehabilitation of transportation facilities. He is an effective project manager and excellent facilitator, promoting the expediency of successful projects. He has managed multi-disciplined teams for projects up to \$60 million construction cost. Over the course of his career, Greg has managed hundreds of transportation planning, design and construction projects ranging from resurfacing, roadway, bridge, and roundabout designs to traffic studies and alternatives analyses. He and his staff have also designed a number of unique projects including a series of “park-and-ride” facilities, several recreation paths, a river restoration, and town and city Main Street reconstructions. As the leader of the firm’s New England Transportation and Traffic Division, his clients include such large organizations as Burlington International Airport and the state transportation departments of Maine, New Hampshire, New York, and Vermont. He has also worked for a variety of municipalities, including the cities of Portland, Maine and Burlington and Rutland, Vermont.

### **RELEVANT EXPERIENCE**

#### **VTrans 1-89 Culvert Design Build, South Burlington-Georgia, Vermont**

Proposal leader and assistant project manager for the replacement of six culverts under interstate 89 in South Burlington and Georgia, VT using the Design Build project delivery process. This \$15 million project included Environmental Permit Applications, Geotechnical investigations, Traffic Control, Hydrology and Hydraulic analysis and report, culvert layout and design, Traffic Control, and design of a tunnel under 1-89 for installation of pre-cast concrete arches in Georgia under 35’ of fill. Project involves close coordination with environmental Regulators to inform them of the project and to get their input prior to submitting Permit applications, thereby accelerating the permit process.

#### **US 2 / I-89 Exit 14 Improvements Design, South Burlington, Vermont**

Project Manager for the final design for the construction of a third eastbound lane of US Route 2, an urban arterial with over 40,000 vehicles per day, from the Sheraton Staples intersection to the I-89 southbound on-ramp. Project elements include utility relocations, stormwater treatment, interconnected and coordinated signal system, traffic control for highway widening, decorative street lighting, and landscaping. Stantec services will also provide NEPA documentation, contract plans, construction cost estimates and permitting meeting VTrans LTF procedures. Considerations included \*Complete streets” approach with pedestrian, bicycle, and transit facilities.

#### **Winooski Downtown Development Infrastructure Improvements, Winooski, Vermont**

Principal-in-Charge responsible for this \$14.2 million urban redevelopment project. Project elements included 9,100 linear feet (1.7 miles) of new and reconstructed roadways, over 8,900 linear feet of storm and roof drainage systems, 2,200 linear feet of new sewer mains and laterals, 4,200 linear feet of water mains and laterals, three signal systems, traffic control plan for 23,000 vehicles per day, undergrounding of the existing utilities with over 32,000 linear feet of conduit, a comprehensive stormwater management system, extensive landscaping, parks, and ornamental lighting.

#### **VT Route 7 A/11/30 Roundabout, Manchester, Vermont**

Principal-in-Charge for the final design, permitting, and contract plans for a proposed modern roundabout at the intersection of VT Route 7 A/11/ 30 and a mini-roundabout at the adjacent intersection of VT Route 7 A/30 in the village/commercial downtown area of Manchester Center, Vermont.

#### **Burlington Great Streets, Burlington, Vermont**

Greg was the Principal-in-Charge responsible for this redesign of two streets, Bank and Cherry, in downtown Burlington, Vermont. The redesign prioritized pedestrian safety and movement and maintained the on-street parking needed for the small business. The design incorporated raised intersections, bicycle racks, parklets, seating areas outside popular business and restaurants, green stormwater infrastructure, and public art.



**Thad Luther, PE**

**Assignment Manager,  
Traffic Signal Design**

**YEARS WITH STANTEC**

20

**EDUCATION**

Florida Advanced Work  
Zone Traffic Control Course,  
ATSSA, Brandon, Florida,  
2008

AS - Civil Engineering,  
Vermont Technical College,  
Randolph, Vermont, 1994

BS - Civil Engineering,  
University of Vermont,  
Burlington, Vermont, 1997

**REGISTRATIONS**

Professional Engineer  
#8281, State of Vermont,  
7/31/2010

Thad has served as a project engineer and manager for a diverse variety of transportation related projects for over 21 years. His roadway experience includes traffic engineering, signal design, highway geometrics and aviation services. His roadway experience includes updating existing intersections, final design of limited access facilities, award winning rural highway upgrades and completion of planning studies for future roadway expansions. He is also experienced with neighborhood enhancement projects that utilize context sensitive design to satisfy multiple stakeholders. Elements of these enhancement projects include roundabouts, traffic calming, sidewalks, and new drainage facilities. Thad successfully combines technical know-how with the ability to facilitate communication between clients, co-workers and the public to complete projects.

**RELEVANT EXPERIENCE**

**VTrans Colchester-Essex Shared Use Path | Colchester-Essex, Vermont**

Project manager for the design and engineering of a shared use path along VT 15 in Colchester-Essex, Vermont. Responsibilities included developing design criteria, designing horizontal and vertical alignments, and leading effort to bring project through construction.

**VTrans US 7/VT Circulator | Winooski, Vermont**

Project manager responsible for developing this VTrans Safety Improvement project from conceptual plans through construction. Project included public participation, safety improvements, pedestrian facility upgrades and lighting. Construction is anticipated to begin in 2016.

**VTrans VT 289/VT 2A Interchange Improvements | Colchester-Essex, Vermont**

Project manager responsible for overseeing design of this signal equipment upgrade project. Project included evaluation of the existing signal system and integration of the upgraded signal equipment. This project is the first phase of a 2 phase project. Second phase involved capacity increases via lane additions so this signal upgrade project accounted for future roadway widening. The client desired to implement adaptive traffic control (ATC) into the signal system. Stantec evaluated various systems and selected the Rhythm Engineering's InSync System. This was the first ATC system installed in the State of Vermont.

**VTrans - Bristol 116 Intersection Upgrade | Vermont, United States**

Project manager responsible for design services for the improvements to the VT116 / North Street / South Street intersection in the center of Bristol, Vermont. Stantec worked with the Town and VTrans to design a actuated traffic signal system, improved intersection geometry with bulb-outs, decorative intersection street lighting and landscaping. The project improved safety for motorists, pedestrians and bicyclists and enhanced the aesthetics of downtown Bristol.

**Town of Middlebury - U.S. Route 7 Signalization | Vermont**

Traffic Engineer for a corridor signal study and design involving the upgrade of six signalized intersections. Services included corridor traffic capacity analysis, geometric and signal improvement recommendations, corsin simulation, signal timing, phasing and coordination, public participation process, signal designs, and right-of-way services.

**VTrans Exit 16 Diverging Diamond Visualization | Colchester, Vermont**

Project Manager responsible for providing realistic renderings for public hearings. overseeing the creation of the renderings developed as a realistic 3D model. This model was used to create the needed renderings and create multiple drive-through and flyover videos. Also creating a video game-like driving simulator.



## **Rick** Bryant, PE

**Assignment Manager**

### **YEARS WITH STANTEC**

8

### **EDUCATION**

Bachelors of Science - Civil Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, 1979

Bachelors of Science - Management, Massachusetts Institute of Technology, Cambridge, Massachusetts, 1979

Masters of Science - Civil Engineering, University of California at Berkeley, Berkeley, California, 1980

### **REGISTRATIONS**

Registered Engineer #36532, Commonwealth of Massachusetts

Registered Engineer #9004, State of Vermont

### **MEMBERSHIPS**

Instructor for PE Refresher Course, Boston Society of Civil Engineers Section

Member, Institute of Transportation Engineers

Rick is a Senior Associate with more than 35 years of consulting experience in New England. He is a transportation planner and traffic operations specialist with an extensive background in planning, design and permitting of public-sector projects. Richard has developed broad knowledge of state and local permitting regulations and has established strong working relationships with state highway and environmental permitting agencies. He is also an experienced public speaker who can effectively present transportation plans and projects at public hearings and other forums

### **RELEVANT EXPERIENCE**

#### **Proposed Park and Ride Facility | Williston, Vermont**

Project Manager for a proposed 150-space park and ride facility to be constructed as part of a mixed-use development located on VT 2A south of I-89 in Williston. A traffic impact study was prepared to consider the combined impact of the park and ride lot, a proposed service station/convenience store, and 200-room hotel. Adjustments were made for pass-by and shared trips. A comprehensive site access plan was developed working with VTrans.

#### **CCRPC US Route 7/Harbor Road/Falls Road Scoping Study | Shelburne, Vermont**

Senior Traffic Engineer for the scoping study of a congested urban arterial intersection within the historic village core of Shellproof, Vermont. Services consisted of analyzing existing traffic conditions, identifying existing issues, developing a project purpose and need, identifying creative solutions and evaluating them, and conducting a public consensus building process. Considerations included promoting pedestrian and bicycle use and improving mobility on the urban arterial while respecting the historic and mixed use nature of the area. The resulting alternative includes a modern roundabout, creation of grid street network, and signalization improvements.

#### **VT 22A Truck Route Study | Vergennes, Vermont**

Project Manager for a regional transportation study to address the persistent flow of large trucks generating noise, emissions and vibrations that negatively impact historic downtown Vergennes. During the course of nine months, Stantec prepared a planning study on behalf of the Addison County Regional Planning Commission and VTrans to develop and evaluate alternative plans to mitigate the impact of the truck traffic. Alternative solutions ranged from traffic calming measures along the existing truck route, construction of a bypass, and rerouting trucks to an existing alternative route, VT 17. Stantec guided the evaluation of operational, safety and economic impacts of each alternative and helped estimate project implementation costs. The study findings were shared with community members through a series of public meetings to build a consensus of public opinion. Our economic analysis highlighted the benefits of the alternatives and led to strong public support of a new 2-mile highway around the historic downtown.

#### **Pearl Street Corridor Study | Burlington, Vermont**

Conducting a roadway operations and design study for an urban street in downtown Burlington, Vermont. Modifications to existing lane use and parking conditions are being evaluated with the goal of adding bike lanes to the roadway. Impacts to traffic operations are being considered. Alternatives will be vetted in a public forum.

#### **VTrans Left Turn Lane Policy | Montpelier, Vermont**

Conducted a review of VTrans current practices relative to the evaluation of left turn lanes on two-lane rural highways and made recommendations to update and enhance their policy. The compiled alternative left turn lane warrant criteria were applied to eight Vermont intersections to compare outcomes. intersection modifications to add capacity.



## **Mike Fowler, PE**

**Assignment Manager,  
Pavement Design, Rail**

### **YEARS WITH STANTEC**

2

### **EDUCATION**

Associate in Civil  
Engineering Technology,  
Vermont Technical College,  
Randolph Center, Vermont,  
1989

B.S., Civil Engineering,  
University of Vermont,  
Burlington, Vermont, 1995

### **REGISTRATIONS**

Professional Engineer  
#018-0007892, State of  
Vermont

Mike is a senior project manager and is responsible for managing projects and the preparation of preliminary, final and contract design plans for various transportation projects. This work includes field reviews, developing horizontal and vertical alignment, structural pavement design, drainage design, quantity computations and cost estimating. He has a good working knowledge of CADD software including MicroStation and InRoads, as well as extensive experience with project scheduling and cost estimation software.

Spending nearly three decades at the Vermont Agency of Transportation (VTrans), Mike has engineered hundreds of highway infrastructure assets to improve mobility and connectivity for communities throughout the Green Mountain State. For the last 13 years, he utilized modern asset management techniques and principles to determine project selection and scheduling for the VTrans' 3-year paving program. In that capacity, he was responsible for performing, guiding, and approving all designs involving various treatments. He also had to plan—and prepare—budgets for the paving program, helping to manage over \$500 million in value from start to finish.

### **RELEVANT EXPERIENCE**

#### **VTrans - Guilford I-91 Welcome Center Pavement Rehabilitation - Guilford Rest Area IM 091-1(79) | Guilford, Vermont, United States**

Project Manager for the development and design of a pavement rehabilitation strategy and generate contract documents for the rehabilitation of the Guilford I-91 Welcome Center, a 114-space car parking area, 23-space truck parking area and more than 1/2 mile of circulating and access roads. Most of the rehabilitation was a cost-effective asphalt mill and overlay. Approximately 700 feet of an access road with more than 10% grades required a reclaimed stabilized base with 5 inches of new asphalt. One of the more challenging aspects of the project was the maintenance of traffic during construction. Working with the facility operators, we developed a performance specification that allowed ramp access closures during a designated 4-hour period and provided an alternative site for truck parking while the car parking was relocated to the truck parking area.

#### **Waterbury VT 100 Water Main | Waterbury, Vermont | 2017–2018**

Project manager for the design of a 3600 ft. extension to the municipal water distribution line along VT route 100. Project demands significant coordination among numerous State agencies and multiple property owners. The length of the project falls also within the limits of a major VTrans roadway rehabilitation adding further complexity. Potential alignments for the watermain are complicated by the broad existence of bedrock, a leachfield sewer system in the path, Class II wetlands through much of the corridor, and petroleum underground storage tanks in an area adjacent to the VT route 100 highway ROW. Permits are required from the Vermont Agency of Transportation, the Vermont Agency of Natural Resources, and the U.S. Army Corps of Engineers. Project is planned for construction in the Fall of 2018 and is currently on schedule and within budget.

#### **Williston STP BP17(12) | Williston, Vermont | 2018–Present**

Project Manager for design and construction of approximately 1700 ft. of new sidewalk and grass strip buffer. In the interest of pedestrian safety and mobility, the Town of Williston, with funding through the Vermont Agency of Transportation (VTrans) Bicycle and Pedestrian Program, is pursuing the installation of new concrete sidewalk segments along Blair Park Road. This road serves numerous commercial and residential facilities, along with the Vermont Technical College campus and student living center. The sidewalk project will close existing gaps and provide a continuous safe walkway for pedestrians circling Blair Park by creating a more complete sidewalk network. It will also connect to bus stops along Route 2 and 2A for commuters living and working in the area. Enhanced crosswalks connecting senior living residents will be included as well as traffic calming measures to further improve safety.