

Requests For Funding Through the 1% Local Option Tax Fund

Name of Person/Organization/Business/Committee

THE WILMINGTON TRAILS COMMITTEE

Date of Request

MARCH 9, 2022

Contact person, phone numbers, mailing and email address

WILMINGTON TRAILS COMMITTEE

ROBERT FISHER, CURRENT CHAIR

802-464-3276

535 SHEARER HILL ROAD, BRATTLEBORO, VT 05301

BOB@FISHERANDFISHERLAW.COM

Amount of Request and Date Funding Needed

THE TRAILS COMMITTEE IS REQUESTING FUNDING IN THE AMOUNT OF \$16,000 TO FUND THE DESIGN AND ENGINEERING COSTS ASSOCIATED WITH THE IMPROVEMENTS TO THE HOOT, TOOT AND WHISTLE TRAIL. FUNDING WOULD BE REQUIRED DURING SPRING AND SUMMER, 2022.

Describe in detail the purpose and specific use of the funding

THE PURPOSE OF THE FUNDING IS TO PAY FOR ENGINEERING AND DESIGN SERVICES ASSOCAITED WITH THE IMPROVEMENTS TO THE HOOT, TOOT AND WHISTLE TRAIL. THE TOWN PUT OUT REQUESTS FOR PROPOSALS FOR THIS DESIGN AND ENGINEERING WORK IN LATE 2021. THE RFP DESCRIBED THE PROJECT AS FOLLOWS:

The project includes a 2-mile trail from the Riverwalk Path to Mt. Mills East Picnic Area and Boat Launch, plus a short spur connecting to Mill Street. At present some sections of the trail are constantly wet and muddy (Appendix 2) while others are hazardous due to the terrain--roots, rocks, winding and uneven course (Appendix 2). Other areas of the path have suffered considerable erosion (Appendix 2) and will require some type of remediation. The improvements

proposed will comprehensively provide long term sustainability and more inclusive, public recreational access. The result envisioned will easily accommodate families with strollers, bicyclists, and those with physical and mobility limitations. Once completed, the Hoot, Toot and Whistle Trail enhancements will offer a more typical, rail-trail user experience, thereby facilitating increased usage and enjoyment of a local, community asset. Specific goals include widening the trail and rerouting or rebuilding the path with native, surrounding materials or gravel to create a well constructed, more level or more gently sloping path.

THE TRAILS COMMITTEE RECEIVED THREE BIDS (ATTACHED HERETO) AND REVIEWED THE SAME AT ITS MEETING IN JANUARY, 2022. THE TRAILS COMMITTEE RECOMMENDS THE LOW BID FROM WESTON & SAMPSON IN THE AMOUNT OF \$16,000.

Please provide a financial breakdown of your project/request.

PLEASE SEE THE WESTON AND SAMPSON BID DOCUMENT ATTACHED WHICH BREAKS DOWN THE ENGINEERING FEES ASSOCIATED WITH THE PROJECT.

Briefly describe the need for the funding and any other information that can support the application.

THE FUNDING IS NECESSARY IN ORDER TO MOVE THE OVERALL PROJECT OF THESE TRAIL IMPROVEMENTS FORWARD TOWARD CONSTRUCTION. BEFORE CONSTRUCTION CAN COMMENCE, THE DESIGN, ENGINEERING AND PERMITTING OF THE IMPROVEMENTS MUST BE COMPLETED. TO DATE, THE TOWN HAS NEGOTIATED AN EXTENSION OF ITS LICENSE WITH GREAT RIVER HYDRO (SIGNATURES PENDING, I BELIEVE) WHICH ALLOWS THE TRAIL TO CONTINUE ON GRH'S PROPERTY FOR THE NEXT TEN YEARS. THE TOWN TRAIL COMMITTEE HAS WALKED THE TRAIL WITH REPRESENTATIVES OF GRH AND THE VERMONT LAND TRUST, NOTING AREAS OF CONCERN AND AREAS IN NEED OF IMPROVEMENT. THE NEW LICENSE ALLOWS CLEAN

GRAVEL TO BE BROUGHT ONTO THE SITE FOR PURPOSES OF THE IMPROVEMENTS SO LONG AS CARE IS TAKEN TO AVOID THE INTRODUCTION OF INVASIVE SPECIES. WHAT IS NEXT IS TO HAVE AN ENGINEERING FIRM DESIGN THE IMPROVEMENTS, OBTAIN PERMITTING FOR SUCH IMPROVEMENTS AND TO ESTIMATE COSTS FOR THE WORK. ONCE THAT IS COMPLETED, THE TOWN WOULD BE IN A BETTER POSITION TO SEEK GRANTS FOR SUCH CONSTRUCTION WORK AT A LTER DATE.

Signature of Applicant

Date

Robert M. Fisher

3/9/2022

Town of Wilmington
VERMONT

PROPOSAL

December 2021

Design for Improvements to Hoot, Toot, & Whistle Trail



Weston & SampsonSM

westonandsampson.com

98 South Main Street, Suite 2, Waterbury, VT 05676

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Section 5	PROPOSED TIMELINE
Section 6	COST ESTIMATES & OVERALL PRICE

December 17, 2021

Bob Fisher, Chair
Wilmington Trail Committee
2 East Main Street
PO Box 217
Wilmington, VT 05363

Re: **Request for Proposal – Design for Improvements to Hoot, Toot, & Whistle Trail
Town of Wilmington, Vermont**

Dear Mr. Fisher:

Weston & Sampson is pleased to submit this proposal to provide professional services to the Town of Wilmington for design improvements to the Hoot, Toot, & Whistle Trail. We look forward to the opportunity to develop designs that are inclusive of all intended users, integrate the needs of the community, and are sensitive to the character of the town and the trail.

With extensive relevant experience providing similar services for parks and recreation departments in Vermont and throughout the Northeast, our team offers the Town of Wilmington and the Wilmington Trail Committee (WTC) the qualifications, expertise, and approach required for successful project completion. We are incredibly excited about the opportunities presented by this project, and we want to assure the town that we are focused on:

- Working in a highly collaborative manner with representatives from the town, the WTC, the Select Board, the Agency of Natural Resources, the Vermont Land Trust, as well as Great River Hydro and other invested stakeholders, and residents.
- Hitting the ground running and building off the excellent work that the town has accomplished in recent years, including the scoping report completed in 2007, creation of the existing recreational path, and the license agreement with Great River Hydro.
- Leading a highly energized, constructive, and rewarding public engagement process that yields exciting improvements and strong support from community members, businesses, and property owners.
- Minimizing environmental impacts by working with the Agency of Natural Resources and re-routing where necessary.
- Working within the guidelines of the Vermont Town Forest Trail Design Guide.
- Creating lasting, inclusive trail improvements, and establishing an important town amenity with safe, natural, sustainable, and accessible facilities that invite users and improves quality of life for residents and visitors alike.

Highlights of our qualifications include:

Successful Record of Project Completion – With our combined parks/trails, recreation, and open space planning and design experience, Weston & Sampson ranks among the most experienced firms in New England. Our multi-disciplinary team has built a portfolio of projects for Vermont clients over the past decade, including our recent efforts on similar projects in Dover, Rutland, and West Rutland.

History of Client Satisfaction – Our highly competent and talented team has successfully completed many similar projects from visioning and planning through design and construction. In Section 3, *Prior Experience & References*, we have included contact information for clients that we encourage you to contact for information regarding our ability to perform, professionalism, technical expertise, and capacity to achieve a high level of planning and design excellence.

Seasoned Team of Professionals – Given our understanding of this project and local experience, we have organized an experienced team ready to provide cost-effective and timely services and deliver comprehensive designs for the Hoot, Toot, & Whistle Trail. Our team will be led by **Daniel Biggs, RLA, ISA, CERP** and **Douglas Gerber, RLA**, who have successfully managed numerous planning and design projects.

Weston & Sampson offers the Town of Wilmington a full-service team of experts who have dedicated their careers to working with municipalities to develop creative solutions for their infrastructure improvement needs. We are ready to begin work immediately and have the depth of resources and experience to execute all required tasks efficiently. Please contact me at 518-417-3433 or biggsd@wseinc.com if you have any questions or would like to discuss our qualifications, pricing, or approach.

Our sincere wishes for a successful project,
WESTON & SAMPSON ENGINEERS, INC.

A handwritten signature in blue ink that reads "Daniel P. Biggs". The signature is fluid and cursive, with the first letters of each word being capitalized and prominent.

Daniel P. Biggs, RLA, ISA, CERP
Associate | Regional Manager

Established in 1899, Weston & Sampson has been providing our municipal clients with cost-effective, innovative solutions to their environmental and infrastructure challenges for well over a century. We offer capabilities ranging from project development, assessment, and planning through permitting, design, construction, and operations & maintenance.

We are a full-service multi-disciplined consulting firm with more than 700 professionals, including landscape architects, engineers, scientists, planners, surveyors, and construction inspectors. Our areas of expertise include landscape architecture; civil engineering; climate resilience; environmental science/permitting; surveying; stormwater design and drainage; architecture; water/wastewater utility design/treatment; bridge/roadway design; aquatics; electrical/mechanical/structural/geotechnical/traffic engineering; hydraulic modeling; solid waste services; and construction administration.

Proven Industry Leader

Nationally ranked among the top 150 design firms and top 115 environmental firms in the United States, according to the *Engineering News Record*, Weston & Sampson is proud of our steady record of growth and the ability of our project management staff to understand our clients' needs, develop appropriate solutions, and provide comprehensive engineering and landscape architecture services on time and on budget.

Philosophy Statement

Weston & Sampson maintains a business philosophy that dictates the delivery of conscientious consulting services with professionalism and accountability. We tailor our scope of services to meet the needs and expectations of our clients in accordance with the established industry standards of care. We perform these services at a fair price while upholding the highest ethical values of the profession. Adherence to these principles has served us well since Weston & Sampson's inception in 1899.

Since our inception, the company's prime business focus has been client satisfaction. Listening to and understanding client concerns, goals, and expectations for the project, and then converting these ideas into a buildable and sustainable solution are the keys to achieving complete client satisfaction. We focus on developing quality planning and design products, and dependable, thorough services that provide and retain value for our clients, while promoting our reputation within the marketplace as a leader and innovator in our field.

Our design practice is founded on a horizontal, fully collaborative team structure, conceived to derive maximum benefit from synergies that exist between our design and engineering disciplines, and to yield a result that is *truly greater than the sum of its parts*. Weston & Sampson welcomes the challenges provided by the ever-changing landscape of the built and to-be-built environment.

Weston & SampsonSM
transform your environment

Our mission is to protect, improve, and sustain the natural and built environment to enhance the quality of life.

Our clients are our partners; in our work at trails and open spaces, we remain sensitive to community concerns and understand the need to minimize impacts to residents and neighbors.

Weston & Sampson

ENR'S 2021

#113 Top 200 environmental firms

#142 Top 500 design firms



Expertise

Weston & Sampson offers extensive in-house capabilities in dozens of areas, including many areas that are crucial to trail design efforts:

- Landscape Architecture
- Landscape Planning & Restoration
- Climate Resilience
- Geotechnical & Structural Engineering
- Multimodal Transportation & Traffic Engineering
- Public Facilities Planning & Design
- Land Surveying & Mapping
- Wastewater Collection & Treatment
- Wetlands Replication & Restoration
- Sustainable Design/Renewable Energy
- Master Planning
- Stormwater Management & Green Infrastructure
- Recreational Facility and Athletic Field/Complex Design
- Infrastructure Design & Construction
- Site/Civil Development
- Environmental Site Assessment/ Remediation
- Environmental Compliance/Permitting
- Solid Waste Planning, Design & Management
- Water Supply Treatment & Distribution
- Construction Inspection, Oversight & Management

Certification/License Status

With more than 700 professional and technical support staff, Weston & Sampson is well-positioned to provide design services for trail and path improvements. More than 300 of our staff members hold licenses, registration, and specialized training in their respective fields of expertise.

Below is a summary of the number of employees with various types of specialized training and licenses:

- 15 Registered Landscape Architects
- 153 Professional Engineers
- 11 Professional/Certified Geologists
- 3 Certified Energy Managers | 1 Certified Energy Auditor
- 16 LEED® / 1 SITES Accredited Professionals
- 6 Licensed Site Professionals
- 3 Licensed Construction Supervisors
- 5 Licensed Environmental Professionals
- 7 Registered Architects
- 6 Registered/Professional Land Surveyors
- 3 Certified Planners
- 1 Professional Transportation Planner
- 2 Certified Project Management Professionals
- 2 Asbestos Inspectors / Project Designers
- 2 Licensed Master Electricians
- 1 Journeyman Electrician
- 2 Licensed Plumbers
- 13 Municipal Vulnerability Preparation (MVP) Certified Providers
- 1 Licensed HVAC Technician
- 1 Professional Hydrologist
- 2 Professional Traffic Operations Engineers
- 1 Traffic Control Supervisor
- 2 Professional Wetland Scientists | 2 Certified Wetland Scientists
- 2 Certified Arborists
- 1 Certified Ecological Restoration Practitioner
- 1 Certified Hazardous Materials Manager
- 13 Cross Connection Control Surveyors
- 16 Water Treatment Plant Operators
- 44 Wastewater Treatment Plant Operators
- 2 Geographic Information Systems Professionals
- 4 Certified Playground Safety Inspectors
- 2 Certified Floodplain Managers
- 5 Part 107 Pilot Certificates (drone pilot license)

Solutions

We know that even the best solutions are of no value unless they are affordable, maintainable, and accepted by the public. Our knowledge gained through extensive work with Vermont municipalities similar to Wilmington will be critical to the success of your project. With our strong commitment to meeting the goals of our clients, we consistently achieve consensus-driven solutions through collaboration and coordination with our clients, while maximizing the use of available funding for each project. With this approach, our work is technically sound, timely, and on-target from a cost perspective.

Certificate of Insurance

We have included a copy of our Certificate of Insurance on the following page for your review.

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WESTAND-01

CMURPHY

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/1/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Ames & Gough 859 Willard Street Suite 320 Quincy, MA 02169	CONTACT NAME: PHONE (A/C, No, Ext): (617) 328-6555		FAX (A/C, No): (617) 328-6888
	E-MAIL ADDRESS: boston@amesgough.com		
INSURED Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Suite 100 Reading, MA 01867	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A : Valley Forge Insurance Company A(XV)		20508
	INSURER B : National Fire Insurance Company of Hartford A(XV)		20478
	INSURER C : Nautilus Insurance Company A+, XV		17370
	INSURER D : Lexington Insurance Company A, XV		19437
	INSURER E :		
INSURER F :			

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC OTHER:			6056861029	1/1/2021	1/1/2022	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			6056860561	1/1/2021	1/1/2022	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$			FFX2027937-12	1/1/2021	1/1/2022	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input checked="" type="checkbox"/> Y / <input checked="" type="checkbox"/> N If yes, describe under DESCRIPTION OF OPERATIONS below		N / A	6056861015	1/1/2021	1/1/2022	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liab			031710990	7/3/2021	7/3/2022	Per Claim 5,000,000
D				031710990	7/3/2021	7/3/2022	Aggregate 5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Additional Insured GL Endorsement Form #CNA75079XX 10/16. All Coverages are in accordance with the policy terms and conditions.

Evidence of Insurance.

CERTIFICATE HOLDER

CANCELLATION

FOR PROPOSAL USE ONLY	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE <i>Jared Maxwell</i>

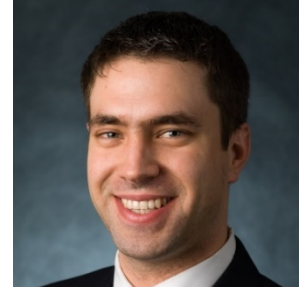
Weston & Sampson offers an experienced team of integrated professionals with the qualifications and experience needed to provide expert design services to the Town of Wilmington and the Wilmington Trail Committee (WTC) for improvements to the Hoot, Toot, & Whistle Trail. Our team includes highly qualified professionals, as well as technical and support specialists, who have successfully worked on similar projects in Vermont and throughout the Northeast over the past several years. **With the multi-disciplinary nature of our firm, we can address important project issues efficiently and seamlessly using in-house staff familiar with the unique aspects of trail/path and open space/landscape architecture design projects.** Our project team brings expert credentials to every aspect of this project; this depth of staff allows us to provide comprehensive design services that address the needs of the town, the WTC, the Select Board, the Agency of Natural Resources, the Vermont Land Trust, and other stakeholders.

Below, we provide our project team organization chart that details the lines of communication among all our team members, as well as their respective roles and responsibilities. We highlight the qualifications and experience of our proposed team members in the summary biographies that follow and have included detailed resumes for our key personnel at the end of this section.



PROJECT MANAGEMENT

Daniel Biggs, RLA, ISA, CERP will serve as principal-in-charge of your project and will ensure that your project remains a priority of the firm. A **Vermont Registered Landscape Architect (RLA #0101807)**, **Certified Arborist**, and **Certified Ecological Restoration Practitioner**, Dan has more than 15 years of experience in multi-disciplinary project management, planning, and design. He has managed the planning, design, and construction of dozens of parks, trails, and recreational open spaces for municipalities located throughout the Northeast. His efforts in Vermont include leading the Town of Dover Trails and Recreation Master Plan; leading the planning, permitting, and design for the Rutland Creek Path in Rutland, Vermont; leading the planning and design of a feasibility study for the Marbleway Path in West Rutland and Rutland, Vermont; and served as principal-in-charge for the Taconic Mountains Ramble State Park Master Plan in Hubbardton, Vermont. Dan is particularly experienced in facilitating the stakeholder participation process and is passionate about incorporating public engagement as part of a creative and collaborative approach to successful planning and design.



Douglas Gerber, RLA will serve as project manager and will work closely with Dan and the rest of our team to accomplish your project goals. Doug will be responsible for the day-to-day progress of your project and will monitor the performance of the project team, review budgets, ensure technical quality, and coordinate personnel assignments. Doug has more than 20 years of experience in site design, conceptual master planning, presentation graphics, and construction documentation and observation. A recent addition to our firm, Doug's experience includes a range of municipal, educational, commercial, and residential design and development efforts. Prior to joining Weston & Sampson, Doug's experience with a former employer includes providing site planning and/or design services for the Delphi Falls County Park improvements project in Madison County, New York; Canalways Trail Extension Master Plan effort in Syracuse, New York; Owasco River Multi-Modal Greenway Trail Corridor Master Plan in Auburn, New York; and the Muir Woods Master Plan in Amherst, New York.



TRAIL ANALYSIS & DESIGN

Jack Grieshofer, RLA, CPSI, will provide trail analysis and design services for this effort. A Registered Landscape Architect and Certified Playground Safety Inspector, his background includes landscape and site design services for a variety of park, recreation, municipal, and higher education projects. Jack's relevant experience includes his work preparing planning, concept, design, and construction documents for the Rutland Creek Path Segment 3 in Rutland, Vermont; Marbleway Path Scoping Study in West Rutland, Vermont; McKnight Rail Trail in Springfield, Massachusetts; Hudson River Trail in Beacon and Fishkill, New York; and the Critical Pedestrian Connections project in Niskayuna, New York.



Amy McLean, RLA, ISA, LEED GA, will work with Jack to provide on-target trail analysis and design services for this project. Amy is a Registered Landscape Architect and has nearly 10 years of experience providing planning and design services. She is also an arborist whose background includes ecological and site design services for a variety of private and municipal projects. Amy has experience in green infrastructure design, parking lot and pedestrian circulation facilities, athletic complexes, streetscapes, and site redevelopment. Her relevant experience includes providing landscape architecture planning and/or design support for the Trail and Recreation Master Plan project in Dover, Vermont and for the linear Aqueduct Park in Niskayuna, New York.



QUALITY ASSURANCE/QUALITY CONTROL

Weston & Sampson is committed to quality assurance and control. To ensure that our firm's high standards are maintained, we routinely assign staff members who are not directly involved in the project to review the project team's work at regular intervals. **Jeffery Budrow, PE** will provide quality assurance/control services for your project. **A Vermont Registered Professional Engineer (PE #5860)**, he has more than 25 years of experience in municipal civil and structural engineering. Jeff has worked on numerous pathway, boardwalk, and civil projects that have involved complex permitting and inter-agency negotiations with state agencies, FEMA, and various other natural resource agencies.



BACKGROUND

2018-Present
Regional Manager
Weston & Sampson

2015-2018
Team Leader
Weston & Sampson

2014-2015
Senior Landscape Architect
Weston & Sampson

2009-2014
Senior Landscape Architect/
Practice Leader
Toole Design Group, LLC

2009
Senior Landscape Architect
Wetland Studies and Solutions, Inc.

2004-2008
Landscape Architect/
Environmental Analyst
Kimley-Horn

2006
Master of Landscape Architecture
State University of New York:
College of Environmental Science
& Forestry

2003
Bachelor of Science
Construction Management
Roger Williams University

PROFESSIONAL REGISTRATION

Registered Landscape Architect
North Carolina No. 2214
Connecticut No. 1328
Delaware No. 459
Maryland No. 3531
Massachusetts No. 4004
Missouri No. 201400212
New Jersey No. 21AS00128000
New York No. 2443
Pennsylvania No. LA002394
South Carolina No. LSA 1215
Vermont No. 0101807
Virginia No. 1368
Washington No. 1337
Wisconsin No. 654-14

Dan is a Registered Landscape Architect with more than 15 years of multidisciplinary experience in all phases of landscape architecture design and environmental planning projects. His background includes leading multidisciplinary teams on master planning, mixed-use and commercial site design, parks and recreational facilities, multi-use trails, campus improvements, and multi-modal transportation projects. Dan is also a Certified Arborist, Certified Ecological Restoration Practitioner, and Irrigation Designer.



SPECIFIC PROJECT EXPERIENCE

Trails and Recreation Master Plan, Dover, Vermont. Principal-in-charge of the development of a comprehensive trails and recreation master plan for the town, including an existing conditions inventory/analysis and needs assessment of Dover's trails and recreational facilities and a comprehensive stakeholder and community engagement program. The resulting master plan will provide a systematic approach for the development of the town's trails, to ensure multi-modal access to the core of the community and trail types designed to meet the needs of a wide range recreational users.

Marbleway Path, West Rutland, Vermont. Led the planning and design of a feasibility study for the Marbleway Path in the communities of West Rutland and Rutland. The project involves assessing the feasibility of connecting West Rutland to Rutland and analyzing potential alignment alternatives. Responsibilities include providing public engagement services and determining preliminary project costs.

Rutland Creek Path, Rutland, Vermont. Led the planning, permitting, and design of the Rutland Creek Path (Segments 3 & 5) in the City of Rutland. Work includes the design of 0.75 miles of multi-use pathway adjacent to Dorr Drive, a 300-foot boardwalk within the existing right-of-way and adjacent to Otter Creek, on-road shared lane markings, as well as the analysis and treatment of stormwater management to comply with VT-ANR standards.

Boston & Albany Rail Trail Feasibility Study, Columbia Economic Development Corporation (CEDC), Columbia County, New York. Project manager leading existing conditions analysis, concept design plan, public involvement, and sub-consultant coordination for the B&A Rail Trail Feasibility Study. The project consists of analyzing the 7.5-mile former rail corridor to create a multi-use trail and potential connections to transit and neighborhood amenities. Facilitated stakeholder coordination, town/village meetings, development of final concept designs, and the development of amenity features within the corridor.

Linear Park at Aqueduct Park, Niskayuna, New York. Project manager in support of a project for Peter Luizzi & Bros. Contracting and the Town of Niskayuna to develop a linear park at Aqueduct Park, a 10-acre waterfront park area on New York State Canal Corporation land. Working to expand the pathway connections from the park to the adjacent residential development and the Mohawk-Hudson Bike-Hike Trail, and to enhance the park area with aesthetically pleasing park amenities and site features.

CERTIFICATIONS

Certified Irrigation Designer,
Irrigation Association

Certified Arborist, International
Society of Arboriculture

Certified Ecological
Restoration Practitioner
Society of Ecological Restoration

PROFESSIONAL AFFILIATIONS

American Society of Landscape
Architects

Council of Landscape Architectural
Review Boards

International Society of Arboriculture

Society for College and University
Planning

Society of Outdoor Recreation
Professionals

Route 133 Intersection Feasibility Study, West Rutland, Vermont. Principal-in-Charge responsible for determining the feasibility of reconfiguring the Main Street (Route 4A) and Clarendon Avenue (Route 133) Intersection into a roundabout. Work involved performing a preliminary assessment of existing conditions, a review of potential improvement alternatives, and the development of rough-order of magnitude costs for implementation. Prepared three concept design roundabout alternatives for the intersection, which consisted of two 130-ft diameter inscribed circles concepts, while the third included a 115-ft inscribed circle to illustrate the potential impacts of each alternative. Each of the concept alternatives improve safety for users of all modes of travel, resulting in fewer crashes, while along creating a gateway and identity to the center of town.

McKnight Rail Trail, Springfield, Massachusetts. Managed the planning/design of a two-mile segment of the McKnight Rail Trail. The project includes developing a feasibility plan, existing conditions analysis, conceptual design, and implementation plan for the proposed trail through the McKnight neighborhood of the city.

Air Line Trail Pedestrian Bridges & Crossings, Pomfret, Connecticut. Landscape architect for this project that included two new pedestrian bridge crossings over both Route 44 and Needles Eye and three new pedestrian crossing culverts below Holmes Road, Murdock Road, and River Road. Design included two pedestrian bridge structures over the existing roadway consisting of a truss bridge with timber walkways supported on geosynthetic reinforced soil integral bridge system abutments.

Hudson River Trail – Beacon Section, Beacon, New York. Currently leading a multi-disciplinary team for the planning and design of the Hudson River Trail in the City of Beacon. The rail-with-trail extends from the City of Beacon Metro-North Station along the existing rail corridor, under the Newburgh Beacon Bridge to the Town of Fishkill. The multi-use path will include viewing areas, overlooks, connections to the nearby trail network, and a boardwalk system.

Hudson River Trail, Fishkill, New York. Led a multi-disciplinary team for the planning and design of the Hudson River Trail in the Town of Fishkill. The rail-with-trail extends from the City of Beacon, adjacent to the Metro-North Railroad corridor to the Town of Wappingers. The multi-use path will include viewing areas, overlooks, and connections to the nearby trail network.

Lincoln Square Basketball Court Improvement, Albany, New York. Principal-in-charge of the design and construction of new basketball court facilities at Lincoln Square in downtown Albany. Efforts include replacing the existing basketball court with three new courts, upgrading the existing playground facilities, and a range of other improvements such as athletic lighting, sidewalks/pathways, park amenities, stormwater treatment facilities, a shade pavilion, and installation of a Rectangular Rapid Flash Beacon to promote safer bicycle/pedestrian access to the park.

Albany Hudson River Shoreline Stabilization, Albany, New York. Principal-in-charge of the development of a shoreline stabilization study to serve as a guiding document for the restoration of 4.7 miles shoreline along the Hudson River. This plan will be used to prioritize and allocate resources for projects to protect the city's unique natural and built environment from future flooding and extreme weather events.

BACKGROUND

2021-Present
Senior Project Manager
Weston & Sampson

2013-2021
Senior Landscape Architect
Environmental Design & Research,
Landscape Architecture,
Engineering & Environmental
Services, DPC

2011-2013
Landscape Architect/Project
Manager
Environmental Design & Research,
Landscape Architecture,
Engineering & Environmental
Services, DPC

1999-2011
Landscape Designer/Project
Manager
Environmental Design & Research,
Landscape Architecture,
Engineering & Environmental
Services, DPC

1998 and 1999
Office Assistant
Environmental Design & Research,
Landscape Architecture,
Engineering & Environmental
Services, DPC

2010-2011
Visiting Instructor
State University of New York
College of Environmental Science
& Forestry

EDUCATION

1999
Master of Science, Specialty in
Community Design & Development,
State University of New York,
College of Environmental Science
& Forestry

1999
Bachelor of Landscape
Architecture
State University of New York,
College of Environmental Science
& Forestry

**PROFESSIONAL
REGISTRATION**

Registered Landscape Architect
New York No. 002299

Doug is a Senior Project Manager in our Albany, New York office. A Registered Landscape Architect, he has more than 20 years of experience in site design, conceptual master planning, presentation graphics, and construction documentation and observation. Doug's project experience includes municipal, educational, commercial, and residential design and development.

**SPECIFIC PROJECT EXPERIENCE****Muir Woods Master Plan, Amherst, New York.**

Provided conceptual designs, illustrative renderings, and site earthwork grading for proposed mixed-use development. The firm provided master planning, environmental impact analysis, state/federal permitting, and wetland mitigation design for the 330-acre parcel. Project objectives included making existing wetlands and mitigation wetlands as a focal point of the site which incorporates 1.8 million square feet of residential, commercial, and retail development in a "live, work, and play" environment. Site amenities include an enhanced 32-acre lake, pedestrian trail system, and passive recreational opportunities. The wetland mitigation and enhancement design calls for the creation of nearly 40 acres of wetlands. (with former employer)

Owasco River Multi-Modal Greenway Trail Corridor Master Plan, Auburn, New York. Provided site planning/design and coordinated cultural resource management services as a subconsultant to others, under a Tiger II Grant-funded 6-mile shared use bicycle/pedestrian trail along the river. Responsible for design and development of site plans and details in the preparation of alternative planning related studies, based on public input and agency approvals, and a final conceptual master plan for the trail from Wadsworth Park to Owasco Lake. The firm served as a subconsultant to CHA Consulting, Inc. (with former employer)

Canalways Trail Extension Master Plan, Syracuse, New York. Provided preliminary trail extension design with the consultant team for the development of a multi-modal pedestrian and bike-way trail to complete the loop around Onondaga Lake. The trail required a bridge to span the CSX railroad from the Onondaga Lake Trail to Hiawatha Boulevard in the City of Syracuse. The firm served as a subconsultant to CHA Consulting, Inc. (with former employer)

Liverpool Village Cemetery, Liverpool, New York. Participated and led the design for pedestrian improvements and entry signage for the Village of Liverpool Cemetery. While working with the Cemetery Committee and Village Staff, the firm prepared conceptual designs, design development drawings, construction documents, and estimates to provide improved pedestrian circulation and the construction of a stone veneer and wood panel entry sign off of Tulip Street. (with former employer)

Delphi Falls County Park Improvements, Madison County, New York. Assisted in the finalization of construction related drawings, specifications, and estimates for improvements to Delphi Falls County Park. Improvements include a new parking lot with permeable asphalt pavement, site lighting, restroom, pedestrian bridge, trails, and overlooks. (with former employer)

PROFESSIONAL AFFILIATIONS

American Society of Landscape
Architects

Huckleberry Swamp, North Rose, New York. Assisted in the planning, design and preparation of preliminary conceptual design alternatives, design development documents and studies, and construction documentation for the Huckleberry Swamp Nature Preserve trails and boardwalks. (with former employer)

Skaneateles Country Club, Skaneateles, New York. Provided site planning for the country club adjacent to the Skaneateles Lake shoreline to incorporate aspects of accessibility, grading, and green infrastructure. The focus of this project was to provide a fresh, family-friendly character and aesthetic with outdoor seating, gathering, and event spaces. (with former employer)

Saint Elmo Patio at the Chautauqua Institute, Chautauqua, New York. Participated in the planning process and developed alternative studies in preparation for providing a final master plan for the St. Elmo Patio at the Chautauqua Institute in Western New York. (with former employer)

Destiny USA – At Home Exterior Plaza Improvements, Syracuse, New York. Provided conceptual designs and illustrative graphic models as part of the removal and replacement of the existing parking garage deck surface with a grand entryway for a commercial tenant. Brick paving, lighting, and site furniture was selected to accommodate stormwater drainage to existing structures and a low profile from the deck substructure to the building's finished floor elevation. (with former employer)

Market Place Plaza at Orlando Mall, Orlando, Florida. Assisted in the preparation of preliminary conceptual design alternatives, design development documents and studies, and construction documentation for the Market Place Plaza Mall. (with former employer)

Embracing Age Master Plan, Baldwinsville, New York. Prepared the concept design for the preliminary municipal review process through the Village Planning Board for the 18-acre senior living community. Project included new roadway infrastructure, stormwater management, walking paths, clubhouse amenities, and associated outdoor spaces for the 190-unit community. (with former employer)

Boundary Breaks Vineyard (Phase 1), Lodi, New York. Provided master planning, conceptual design, design development, construction documents and construction observation for a new wine storage facility and tasting room. Phase 1 includes a rustic gravel parking lot with associated landscape, walking paths, and an outdoor event space with a commanding view of Seneca Lake. The firm served as a subconsultant to King + King Architects. (with former employer)

Ramsey Place Green Infrastructure Project, Albany, New York. Developed preliminary green infrastructure road improvements and studies to identify opportunities to increase lawn area and plant medium to capture stormwater to improve planting conditions for street trees while working with the Albany Water Board. (with former employer)

Schematic Site Master Plan Development, West Dominick Street, Rome, New York. Developed schematic site plans for each of three sites identified on West Dominick Street depicting potential site circulation and layout based on site specific opportunities and constraints, as well as existing and potential future conditions of the built and natural environment within the surrounding area. (with former employer)

BACKGROUND

2010-Present
Senior Associate
Weston & Sampson

2003-2010
President
J. Kenneth Fraser and Associates

1989-2003
Vice President, Engineering
J. Kenneth Fraser and Associates

1984-1989
Engineer
J. Kenneth Fraser and Associates

EDUCATION

1984
Master of Civil and Environmental
Engineering
Cornell University

1983
Bachelor of Science
Civil Engineering
Cornell University

PROFESSIONAL CERTIFICATIONS

Professional Engineer:
New York No. 063680-1
Vermont No. 5860
Massachusetts No. 35265

PROFESSIONAL ASSOCIATIONS

American Public Works Association

American Council of Engineering
Companies, New York

New York State Association of
Consulting Engineers
Eastern Region - Past President

Jeffery is a senior associate responsible for general administration and technical coordination of all consulting services offered by the firm for our Capital Region clients in New York, as well as many of our Berkshire County clients in Massachusetts.

Jeffery's consulting experience involves all aspects of civil engineering, including water supply and distribution, sanitary sewage collection, pumping and treatment, stormwater management, solid waste management facilities, roads and street design. Activities also include site development engineering, public school/college site design and master planning, environmental studies, hydrologic studies and community planning.



SPECIFIC PROJECT EXPERIENCE

Rutland Creek Path, Rutland, Vermont. Currently providing quality assurance/quality control services for the planning and design of the Rutland Creek Path in Rutland, Vermont. The project includes a 300-foot-long boardwalk adjacent to Otter Creek, rehabilitation of Dorr Drive, and a shared-use path from the College of St. Joseph to the newly constructed River Street Bridge.

Halfmoon Town Park, Halfmoon, New York. This comprehensive park development included active/passive amenities like baseball fields, outbuildings, bathrooms, and walking trails in addition to infrastructure, traffic circulation, and parking.

Multi-Use Path at Stone Clay Road, Troy, New York. Engineer for the construction of a new roadway and multi-use path located in Rensselaer Polytechnic Institute Technology Park in Troy, New York. The approximately half-mile road and trail system included street lighting, stormwater management areas, and wetland crossings.

Old Champlain Canal Trail, Waterford, New York. Engineer for the construction of a trail connecting to the Erie Canal along the Waterford Flight at Lock No. 2. The trail connects to the Saratoga County Heritage Trail in Mechanicville, New York.

Flight Canal Trail, Waterford, New York. Engineer for the construction of a multi-use trail connecting the Erie Canal Lock No. 2 Park to the State Boat Launch picnic area along the Mohawk River. The 5.5 mile trail project efforts involved coordination with the New York State Office of Parks, Recreation and Historic Preservation, and the Hudson River Valley Greenway Conservancy Small Grants program.

South Troy Riverfront Greenway Trail, Troy, New York. Engineer for the construction of a multi-use paved trail along the Hudson River shoreline. The trail is approximately 3,400 linear feet long and provides a biking and pedestrian trail system that connects the Hudson River Valley Greenway and the Troy Local Waterfront Revitalization Program.

Boston & Albany Rail Trail Feasibility Study, Columbia County, New York. Providing oversight of the existing conditions analysis, concept design plan, public involvement, and sub-consultant coordination for the B&A Rail Trail Feasibility Study. The project consists of analyzing the 7.5-mile former rail corridor to create a multi-use trail and potential connections to transit and neighborhood amenities.

BACKGROUND

2020-Present
Senior Project Landscape Architect
Weston & Sampson

2019-2020
Project Landscape Architect
Weston & Sampson

2018-2019
Landscape Architect II
Weston & Sampson

2014-2018
Landscape Designer
Weston & Sampson

2013-2014
Sales Representative & Designer
Kulak's Nursery & Landscaping

2012-2013
Sales Representative & Designer
Russell's Tree & Shrub Farm, LLC

EDUCATION

2013
Bachelor of Science
Landscape Architecture
Cornell University

PROFESSIONAL REGISTRATION

Registered Landscape Architect:
New York No. 002771

CERTIFICATIONS

OSHA 10-hour Construction Safety
Training

Certified Playground Safety
Inspector, No. 34508-519

Jack is a Senior Landscape Architect based in our Albany office. His background includes landscape and site design services for a variety of municipal, park/trail, and higher education projects. His experience includes site layout and grading, planting design, plaza and public space design, and digital rendering and modeling. Jack is also a Certified Playground Safety Inspector.



SPECIFIC PROJECT EXPERIENCE

Rutland Creek Path, Rutland, Vermont. Prepared design and permitting documents for the Rutland Creek Path (Segments 3 and 5), which includes a 300-foot boardwalk adjacent to the Otter Creek floodway, a bridge spanning East Creek, a multi-use asphalt path adjacent to Dorr Drive, on-road shared lane markings, and utility relocation.

Marbleway Path, West Rutland, Vermont. Prepared concepts and documents for the feasibility study for the Marbleway Path in the communities of West Rutland and Rutland. Assessed the feasibility of connecting West Rutland to Rutland and analyzed potential alignment alternatives. Public engagement and preliminary costs were developed for this study.

Boston & Albany Rail Trail Feasibility Study, Columbia County, New York. Project Landscape Architect for the B&A Rail Trail Feasibility Study, assisting with the development of concept design alternatives. Assessed potential alignments through the various towns/villages.

Hudson River Trail, Beacon and Fishkill, New York. Prepared planning and design documents for the Hudson River Trail, a rail-with-trail that extends from the City of Beacon Metro-North Station along the existing rail corridor, under the Newburgh Beacon Bridge, and on to West Fishkill. The multi-use path will include viewing areas, overlooks, and connections to the nearby trail network.

Critical Pedestrian Connections, Niskayuna, New York. Project Landscape Architect for the improve walking and biking accommodations at various locations along the Mohawk Hudson Bike Hike Trail (MHBHT) and Nott Street to enhance community access to the multi-use trail and create safer access to businesses along Nott Street. Responsible for a range of pedestrian improvements and coordination of survey, traffic engineering, design documents/specifications, and cost estimates.

McKnight Rail Trail, Springfield, Massachusetts. Provided planning and rendering services for the design of a two-mile segment of the McKnight Rail Trail along an abandoned rail corridor running through the historic McKnight neighborhood. Assisted with the feasibility plan, existing conditions analysis, conceptual design, and an implementation plan for the proposed trail. Also developed a digital model of key areas of the trail for use in public participation meetings.

Parks and Recreation Master Plan, Bethlehem, New York. Site designer for the development of a Parks & Recreation Master Plan for the town. The plan provided guidance for future development, and redevelopment for all parks, recreation programs, waterfronts, trails and facilities within the town park system. The project included analyzing data and statistics gathered from each park, engaging stakeholders, holding public meetings, developing illustrative and informational mapping, and developing an implementation strategy.

Parks and Recreation Master Plan, Darien, Connecticut. Site designer for site analysis and preparation of planning documents for the Parks and Recreation Master Plan. Considerations included a proposed aquatic facility, picnic areas, athletic facility upgrades, wetland restoration, environmental education trails, and improved waterfront/beach facilities. Worked closely with the town and residents to ensure the master plan guidelines would meet their needs and desires. Developed a comprehensive report detailing existing conditions, community input, trends analysis, recommendations and a subsequent action plan.

Look Memorial Park Strategic Plan, Northampton, Massachusetts. Site designer for the development of an updated strategic plan for the Frank Newhall Look Memorial Park. The privately operated public park encompasses over 150 acres and houses a wide range of amenities, including athletic fields, hiking/jogging trails, picnic shelters, and water-based amenities. Project included public outreach surveys/meetings, conditions assessment, analysis of public feedback, and development of suggested revisions to the existing strategic plan to better accommodate the needs of the community and park operators.

Short Lane Parcel Park Expansion, Darien, Connecticut. Lead landscape architect for the development of a park expansion at the Short Lane Parcel. Responsible for the design of the expansion of some existing park amenities as well as the addition of new amenities, including a boardwalk trail, picnic pavilions, a boat launch and storage area, and an earthen amphitheater with plaza space.

Lincoln Square Basketball Court Improvement, Albany, New York. Project manager for the design and construction of new basketball courts at Lincoln Square and upgrading the playground facilities, as well as a range of other improvements such as athletic lighting, sidewalks/pathways, park amenities, stormwater treatment facilities, a shade pavilion, and installation of a Rectangular Rapid Flash Beacon to promote safer bicycle/pedestrian access to the park.

Portland Park and Fields Complex, Portland, Connecticut. Provided planning and site design services for the development of a multi-field athletic complex and park facility for the town. The complex includes two soccer fields, two baseball fields, an outdoor splash pad, a playground, a recreation building, a concessions building, and a multi-use trail network with outdoor fitness stations. Also provided site grading services and funding assistance for this project.

BACKGROUND

2020-Present
Landscape Architect II
Weston & Sampson

2019-2020
Landscape Architect
C.T. Male Associates

2018
Adjunct Professor
Delaware Valley University

2014-2019
Landscape Architect I
Langan Engineering &
Environmental Services

2012-2014
Ecological Designer
NAM Planning & Design

2011
Research Fellow
Rust 2 Green

EDUCATION

2012
Master of Landscape Architecture
Cornell University

2006
Bachelor of Science
Ornamental Horticulture &
Environmental Design
Delaware Valley University

PROFESSIONAL REGISTRATIONS

Registered Landscape Architect:
New York No. 002825
Pennsylvania No. LA003290

CERTIFICATIONS

ISA Certified Arborist
LEED® Green Associate
Certificate of Ecological Design
OSHA 10-Hour certification

PROFESSIONAL AFFILIATIONS

American Society of Landscape
Architects
New York State Arborists Chapter

Amy is a landscape architect and arborist whose background includes ecological and site design services for a variety of private and municipal projects. A LEED® Green Associate, Amy has experience in green infrastructure design, parking lot & pedestrian circulation facilities, athletic complexes, streetscapes, and site redevelopment. She is proficient in the Adobe Creative Suite, SketchUp, and AutoCAD software.



SPECIFIC PROJECT EXPERIENCE

Trails and Recreation Master Plan, Dover, Vermont.

Landscape architect for the development of a comprehensive trails and recreation master plan for the town. Conducted an existing conditions inventory/analysis and needs assessment of Dover's trails and recreational facilities. Leading a comprehensive stakeholder and community engagement program to encourage community engagement in the planning process. The resulting master plan will provide a systematic approach for the development of the town's trails, to ensure multi-modal access to the core of the community and trail types designed to meet the needs of a wide range recreational users. Potential recreational facilities include a pump track, an indoor nature/recreational center, a skate park, and gateway trails to US Forest Service Lands.

Aqueduct Park, Niskayuna, New York. Performed initial site analysis and conceptual drawings to enhance a 10-acre linear waterfront park and connect to an adjacent residential development and Mohawk-Hudson Bike-Hike Trail. Programming included a trailhead, overlook, picnic areas, and an expanded parking lot.

Levingston Cove, Newton, Massachusetts. Researched and developed a planting plan for the enhancement of a small neighborhood park. Planting palette included native plants for a rain garden, bank restoration, and aquatic area.

Development of a Riverbank Vegetation Management Plan, Massachusetts Department of Conservation and Recreation (DCR). Landscape architect responsible for providing vegetation consulting services for development of a Riverbank Vegetation Management Plan for the Charles River Basin within the municipalities of Boston, Cambridge, Newton, and Watertown.

Rondout Riverport Shoreline Restoration and Public Access, Kingston, New York. Landscape architect for the restoration and stabilization of the shoreline of the Rondout Historic Waterfront area. Conducted extensive desktop and site analysis to understand existing river edge and adjacent property conditions. Design elements include site-specific living shoreline installations to provide riverine and land-based habitat and flood protection, as well as engineered shore stabilization techniques to protect important infrastructure and historic properties.

Albany Hudson River Shoreline Stabilization, Albany, New York. Landscape architect for the development of a shoreline stabilization study to serve as a guiding document for the restoration of 4.7 miles shoreline along the Hudson River.

Simsbury Parks & Open Space Master Plan, Simsbury, Connecticut. Landscape architect for the development of a Parks & Open Space Master Plan for the town. Project efforts included extensive field investigations of town-owned parks and open spaces to develop recommendations for improvements to facilities and the restoration of degraded natural systems. Helped develop mapping and recommendations to guide future acquisition of open space to facilitate wildlife passage and to preserve intact landscape corridors.

Environmental Consulting Services Contract, Cortlandt, New York. Performed field assessment of forests and wetlands as part of the environmental consulting services contract. Environmental services include arboriculture, wetland delineation, biodiversity assessment and report, Stormwater Pollution and Prevention Plan (SWPPP) review, and post-construction monitoring services.

Parkview Park, Cheltenham Township, Pennsylvania. Landscape designer for a riparian restoration planting plan at a linear park as part of a PADEP Growing Greener Grant. Coordinated site preparation and plant orders for installation. Helped lead volunteer planting with the Cheltenham Environmental Advisory Council and Tookany/Tacony-Frankford Watershed Partnership. (with former employer)

Lafayette College – High Street Streetscape, Easton, Pennsylvania. Provided planning, design, and construction documentation services. Project aimed to improve pedestrian safety by removing street parking, incorporating traffic calming measures, improving pedestrian crossing areas, and upgrading sidewalks along the length of High Street from McCartney Street to Anderson Courtyard. (with former employer)

Chrin Master Planning, Palmer and Tatamy Townships, Pennsylvania. Created master planning and marketing materials to support development in the Lehigh Valley area due to a recently completed interchange on Route 33. Laid out conceptual retail, office, hotel, and industrial lots, encompassing nearly 800 acres near the interchange. Also served as site designer of permitting documents for multiple warehouse developments in this complex. (with former employer)

Curtis Arboretum Conservation and Landscape Management Plan, Cheltenham Township, Pennsylvania. Performed inventory and analysis of the 70-acre site to understand significant cultural, ecological, and built features to guide in the development of the plan. Assisted with the identification and evaluation of trees, including significant trees likely to have been planted by the Olmsted Brothers. (with former employer)

PRIOR EXPERIENCE & REFERENCES

Weston & Sampson's focus is to provide the highest level of consultant services to municipalities. Our work will yield strategic improvements to the Hoot, Toot, & Whistle Trail. We fully understand the needs and challenges of these types of projects, including available technologies, regulatory requirements, cost analysis and funding, and operational issues.

Our firm has been providing engineering, environmental, and construction services for well over a century and landscape design services for more than two decades. Our team has successfully completed assessment/planning, engineering, urban design, landscape architecture, and open space projects in complex municipal environments for clients along the Eastern Seaboard. Specifically, our projects have included multi-use trails, signature parks, multi-generational neighborhood parks and playgrounds, veterans' memorials, riverwalks, and dog parks, and a wide variety of other open space and recreation types. All our designs ensure Americans with Disabilities Act (ADA) accessibility/compliance and useful and compelling programming for users aged 0 to 114.

Weston & Sampson has built a reputation based on the successful completion of project goals, attention to detail, and cost-effective, quality work. **With this reputation, we have become the preferred consultant for many communities in Vermont and throughout the Northeast.** For all of our projects, we tailor our approach to meet the needs of both the project and the client. The combination of our creative and technical design expertise, wealth of in-house resources, ability to develop and maintain valuable client relationships, and our highly collaborative project approach has led to repeat assignments in these communities.

Our staff has been responsible for the layout, design, and construction phase services of numerous multi-use paths, sidewalks, rail-to-trail conversions, and bike routes, all of which have been or will be built. The projects conform to all of the requirements of local, state, and federal agencies, including the Federal Highway Administration (FHWA), applicable Departments of Transportation (DOTs), the American Association of State Highway and Transportation Officials (AASHTO), and the ADA. **Our trail project experience ranges from planning and designing small multi-use pathways to complex/regional rail-to-trails/bikeways involving environmental permitting, public engagement, right-of-way coordination, engineering, and landscape architecture design.**

Weston & Sampson has extensive experience in the design, engineering, and construction administration for trails/paths, parks, recreational/athletic facilities, and playgrounds, providing us with a broad range of experience to draw from in assisting our clients. We have completed hundreds of successful landscape architecture planning and design projects for communities in Vermont throughout the Northeast. We help our clients envision successful futures for their recreational/open space projects. Our creative designers consistently complete thoughtful, pragmatic, and cost-effective trail/pathway, park, and corridor/streetscape designs; master plans; environmental and historical restorations; and open space projects.



Eastman Conservation Area Trails |
Needham, MA



Cochituate Rail Trail | Framingham, MA



Town Park Trails | Halfmoon, NY

Much of our experience also involves infrastructure planning and engineering, interpretive signage and wayfinding, ADA compliance/waivers, urban place making, urban forestry, stormwater management, and sustainable design features. In addition, our team is keenly aware of the need to multitask each construction dollar and believe there are several ways to ensure this is accomplished. For all our active/passive recreation projects, we plan and program multi-use spaces. We are experiencing increasingly dense urban environments and more and more pressure on construction budgets for public infrastructure. This requires us, as designers, to ensure that each dollar spent on improving public open space provides maximum benefit to a diverse, multi-generational population.

Our capabilities and specialized services include:

- Rail-to-trail, greenway, and recreational corridor master planning/design/construction
- Interpretive signage and wayfinding systems
- Master planning, feasibility studies, site analysis, and redevelopment
- Passive and active recreation facilities design and construction
- Comprehensive community involvement and participation
- ADA-related inventory, analysis, and design/compliance
- Sustainable designs and resiliency planning
- Stormwater management
- Utilities relocation and undergrounding
- Site/civil engineering, soil assessments/remediation
- Existing conditions inventory and mapping
- Streetscape design, including street/sidewalk restoration
- Transportation, traffic, and parking planning as well as multi-modal path systems
- Environmental permitting and restoration/coordination with local, state, and federal agencies
- Structural, geotechnical, electrical, and mechanical engineering
- Design of small park support structures and building siting
- Project inspection and construction monitoring
- High-quality illustrative graphics, renderings, and photo-realistic designs
- Maintenance/management planning for properties/structures
- Economic development/enhancement opportunities

Civil & Transportation Engineering

Weston & Sampson has provided civil and transportation engineering services for a multitude of projects of varying complexity for municipal clients throughout New England. These services have included multi-use path, roadway design, circulation improvements, capacity analyses, traffic impact studies, streetscapes, corridor improvement plans, preparation of contract bid documents and construction support. Other improvements designed include parking lots, ornamental illumination, wayfinding signage, traffic signal upgrades, roundabouts, and associated site and utility relocation work.



Landscape Architecture & Planning

Our landscape architects and planners offer extensive experience in multi-use path planning, design, feasibility studies, and master plans. Our staff has also been involved with many projects such as the planning of open space natural areas, beautification of town public spaces, and the design of community and school playgrounds and fields.



Environmental Services

Weston & Sampson's environmental services include wetland delineations and assessments, environmental site assessments, feasibility studies, Brownfields redevelopment, licensed environmental professional (LEP) and licensed site professional (LSP) services. Our staff is capable of performing all aspects of environmental services for construction projects including wetland flagging, soil analysis, groundwater monitoring and permitting.



Structural & Geotechnical Engineering

Weston & Sampson's structural and geotechnical engineers have completed dozens of bridge and wall condition surveys and inspections, load/capacity ratings, structure type studies and evaluations leading to new and rehabilitative construction of a variety of structure types and configurations. Our engineers are fully conversant with AASHTO and FHWA design policies and procedures and have completed boardwalk, bridge, and wall designs scores of communities throughout New England.



Stormwater & Floodplain Management

Weston & Sampson engineers have completed dozens of in-depth hydrologic studies for a variety of project types. Some of these studies have been performed on watersheds up to 25 square miles and included wetland impact mitigation and stream channel stabilization plans and stream enhancements to satisfy fishery protection requirements. Most all infrastructure projects today require knowledge of federal, state, and local wetland and storm water management regulations. Accordingly, our staff has experience working with the VT DEC Watershed Management Division, as well as the various permitting requirements of the US Army Corps of Engineers and FEMA.



Americans With Disabilities Act

Weston & Sampson develops specific, targeted plans that identify strategies for improving community gathering and recreational opportunities for residents of all ages and abilities, including the design of open space assets that provide critical accessible outlets for youth and adult residents and visitors. Our comprehensive services include landscape architecture, path/trail and streetscape, multi-disciplinary engineering, permitting, arboriculture, construction oversight, and more. Weston & Sampson maintains a thorough, up-to-date knowledge base of state building codes and the ADA. We consistently complete comprehensive and successful designs/projects for communities that meet all applicable federal and state guidelines. **All our designs ensure ADA accessibility compliance and programming for users of all ages.** From parks and playgrounds to multi-use paths, our experienced staff ensures that every project meets the industry's specifications and standards and community expectations. Our ability to appropriately plan and design facilities in a pragmatic, feasible manner is demonstrated by the large number of projects we have successfully completed, and our propensity for continued service in nearly all the communities in which we work. In addition, we have experience working successfully within historical commission guidelines, managing contaminated and/or potentially contaminated sites, and respecting the environmental resources of the site on many of our projects.

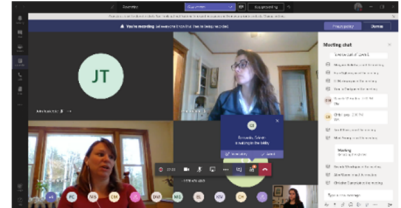


Public Input & Community Participation

Our professional staff has extensive experience in conducting public participation, community outreach / engagement, and communication programs. Many of our projects have required extensive community participation and community-wide involvement by individuals and vested interest groups. With the majority of our experience in the public sector, Weston & Sampson has worked extensively with public groups to gauge public opinion and build consensus.



We understand the need for public outreach and offer extensive experience preparing and presenting legible plans, renderings, photorealistic graphics, estimates, phasing options, 3D models, studies, and other information to public officials, boards, committees, and the general public through a community meeting or hearing process. Our ability to understand the needs of our clients, create and deliver high-impact graphics and information, and foster and achieve public understanding and support through education invariably yields maximum project benefits. Deeply committed to engaging the community through public presentations, we believe it is imperative that the project be presented to the community in the appropriate format and venue in order to gain input. We pride ourselves on engaging oral presentations that educate, enroll, and entertain so the audience develops an affinity for the presenters and the message is well received. This relationship facilitates project progress and creates a collective buy-in for a successful outcome.



Approaches to community engagement within the context of COVID must include the ability to pivot from in-person meetings and identify creative, yet grounded approaches to soliciting input. The following graphic outlines our virtual public engagement techniques and tools:

Weston & Sampson VIRTUAL PUBLIC ENGAGEMENT



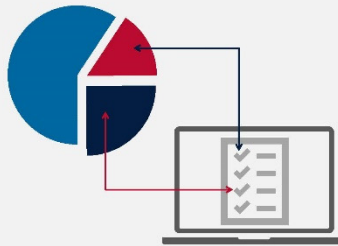
VIDEO CONFERENCING

Tools:

- Skype for Business
- Microsoft Teams

Benefits:

- Screen sharing
- Captions and translation
- Recorded webinars
- "Chat" documentation
- Optional call-in number



OUTREACH & POLLING

Tools:

- Microsoft Forms Survey
- Social Media

Benefits:

- Documented feedback
- Broad participation and engagement
- Surveys provide ranking, selection, and write-in options



DATA VISUALIZATION

Tools:

- Online Maps
- Esri Story Maps
- Adobe Creative Suite
- Infogramia
- Power BI

Benefits:

- Range of formats, including video and drone compilations
- Content for client websites
- Accessible and dynamic visuals keep audiences engaged

Project Listing

We have listed all of our current and past path and trail projects from the past five years in the table below and have included select project descriptions for our recent, relevant experience at the end of this section.

Current & Past Trail/Path Projects – Past Five Years (Completion Date in Parentheses)	
Open Space Recreation Plan & Trails MP Canton, Massachusetts (2018)	Taconic Mountains Ramble State Park Master Plan Hubbardton, Vermont (2020)
Salem/Peabody Multi-Use Path Feasibility Study Salem/Peabody, Massachusetts (Ongoing)	Rutland Town Scoping Study for Multi-Use Path West Rutland, Vermont (2017)
Rutland Creek Path Segment 3 Rutland, Vermont (Ongoing)	Rutland Creek Path Segment 5 Rutland, Vermont (2019)
Beacon-Hudson River Trail Master Plan Beacon, New York (2017)	Beacon-Hudson River Trail Connector Beacon, New York (2020)
Boston Common Soldiers & Sailors Pathway Boston, Massachusetts (2016)	Monastery Path Fidelis Brighton Boston, Massachusetts (Ongoing)
Trail Master Plan & Feasibility Study Philipstown, New York (Ongoing)	Highland Farm Trails & Landscape Plan Darien, Connecticut (Ongoing)
Boston & Albany Rail Trail Feasibility Study Columbia County, New York (2020)	Parks & Trails Master Plan Canton, Connecticut (2018)
Weed Beach Meadow & Trails Darien, Connecticut (Ongoing)	Hood Pond Pedestrian Pathway Derry, New Hampshire (2019)
Heritage Rail Trail Feasibility Study Dedham, Massachusetts (2017)	Trails & Recreation Master Plan Dover, Vermont (2020)
Fishkill-Hudson River Trail Master Plan Fishkill, New York (2019)	Multi-Use Trail at Halfmoon Town Park Halfmoon, New York (2016)
Butterworth Park Demolition & Pathway Framingham, Massachusetts (2016)	Chris Walsh Trail Feasibility Study, Phase 1 Framingham, Massachusetts (Ongoing)
Helderberg Hudson Rail Trail Trailhead & Hilton Park Slingerlands, New York (2017)	Northern Strand Community Trail Extension Everett, Massachusetts (Ongoing)
Third Fork Creek Trail Durham, North Carolina (2020)	R. Kelly Bryant Bridge Trail Durham, North Carolina (Ongoing)
SC-4 Multi Path & US-601 Mast Arm (Ongoing)	Kingston Point Trolley Trail & Shoreline Stabilization Kingston, New York (Ongoing)
Emery Field Multi-Use Fields & Pathways Kittery, Maine (2018)	Multi-Use Pathway & Sidewalk Extension Ledyard, Connecticut (Ongoing)
Manhattan Road Recreation Path Slope Failure Vermont (2016)	Mile Lane Subdivision - 2020 Talia's Trail Middletown, Connecticut (Ongoing)
Eastman Conservation Area Improvements Newman Elementary School Trails & Fields Needham, Massachusetts (2016)	Mill River Trail Extension Survey New Haven, Connecticut (2020)
Linear Park at Aqueduct Park Niskayuna, New York (Ongoing)	Critical Pedestrian Connections Niskayuna, New York (Ongoing)
Tom Nevers Bike Path Study Nantucket, Massachusetts (Ongoing)	Cochituate Aqueduct Trail Improvements Natick, Massachusetts (2018)
SNHRW Rail Trail Soil Remediation New Hampshire (2020)	Montpelier Recreational Path-New Pedestrian Path & Bridge Montpelier, Vermont (2016)
SB 624 Lake Placid to Tupper Lake Recreational Trail, NY (2018)	Peabody-Salem Riverwalk Peabody/Salem, Massachusetts (Ongoing)
Fort Orange Trails Rensselaer County, New York (2020)	Air Line State Park Trail/CE&I Pomfret, Connecticut (Ongoing)

QUALITY ASSURANCE / QUALITY CONTROL

Weston & Sampson believes that Quality Assurance/Quality Control (QA/QC) is an essential element of professional service and its management. We further believe that quality and service will be realized with careful and deliberate management, competent project staff, thorough coordination, constant communication, early and frequent review and checking of the work product, and clear documentation. The project team will deliver this quality service by using Weston & Sampson's in place QA/QC procedures as the basis of a QA/QC program.

The Weston & Sampson Technical Standards and Policies Committee (TS&PC), which is authorized by the Board of Directors to implement QA/QC standards and monitor corporate QA/QC, have prepared our QA/QC manual by which all staff complies. The manual is focused on completeness and technical accuracy of all documents, feasibility of the design, conformance to contract requirements, and conformance to assigned standards and criteria during all phases of a project.

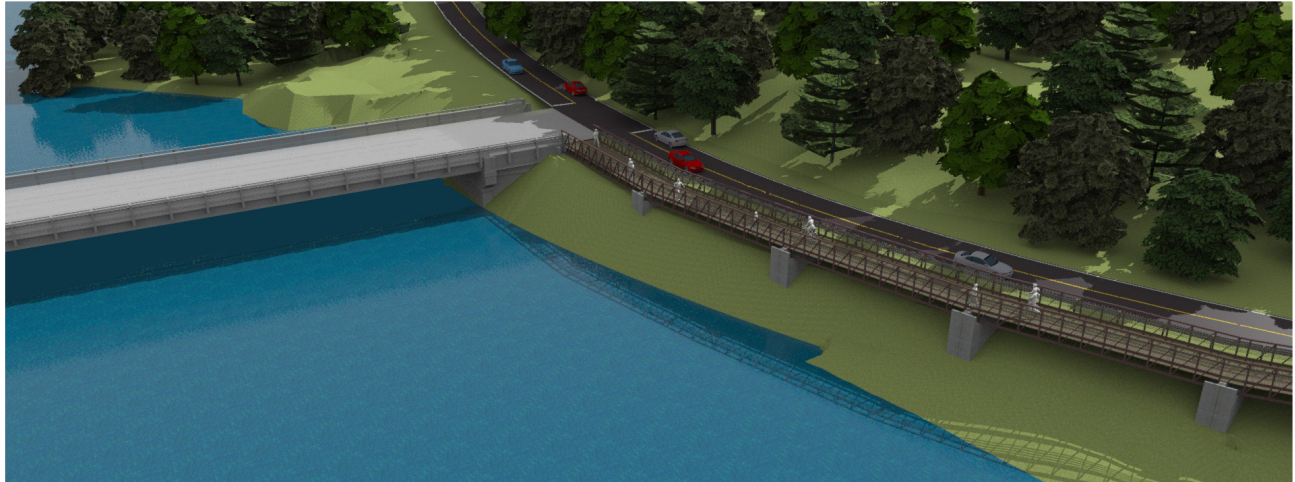
REFERENCES

In the following table, we provide contact information for clients for whom we have performed consulting services like those anticipated by the Town of Wilmington. We invite you to contact these references as well as the client references listed with the project descriptions included at the end of this section to discuss our team's capabilities and past performance on similar projects, as well as our commitment to quality and dedication to client service.

Similar Project References	
Mary-Ann Goulette Town Manager 35 Marble Street West Rutland, Vermont 05777 802-438-2263 mgoulette@westrutlandtown.com Marbleway Multi-Use Path Feasibility Study	Susan Schreibman Specialty Project Manager PO Box 969 Rutland, Vermont 05702 802-353-0005 sschreibmangross@gmail.com Rutland Creek Path, Segments 3 + 5
Andrew McLean Town Clerk PO Box 527 Dover, Vermont 05356-0527 802-464-5100 x2 townclerk@doververmont.com Dover Town-wide Trails & Recreation Master Plan	Steve Petrik President Southern Vermont Trails Association 908-463-3168 spetrik@sovta.org Dover Town-wide Trails & Recreation Master Plan

RUTLAND CREEK PATH SEGMENTS 3 AND 5

city of rutland, vermont



Weston & Sampson has been working with the City of Rutland on the design and construction of Segments 3 and 5 of the Rutland Creek Path. These projects will connect previously constructed segments of the Creek Path and provide critical transportation and recreational opportunities throughout the city.

Located along the western edge of the city, the Rutland Creek Path is approximately 1.5 miles long and is comprised of five trail segments that connect Pine Hill Park to the College of Saint Rose. Weston & Sampson began working on the design and permitting of Segment 5 before project funding was shifted to focus on Segment 3. Both projects involve extensive permitting efforts through the Vermont Agency of Transportation and other local, state and federal agencies.

Segment 3 of the Rutland Creek Path is currently in the preliminary design phase, and includes a bridge crossing over East Creek, a mid-block crossing at West Street, and trail construction through a utility easement owned by Green Mountain Power. The stream crossing will be achieved using a pre-engineered bridge design while maintaining appropriate floodway and overhead power clearances. The mid-block crossing will involve relocating an existing crossing with rapid-flash beacons to better align with the new trail location.

Segment 5 is located along Dorr Drive and is broken into three distinct areas, including a sidewalk section and a multi-use asphalt trail section. Additionally, an elevated, 300-foot-long boardwalk will be developed along the edge of Otter Creek before transitioning into the multi-use trail section. Weston & Sampson completed extensive floodway mapping and permitting as part of this segment, which included the development of a retaining wall system to ensure disturbance did not encroach into the floodway. This segment is currently on hold pending additional funding.

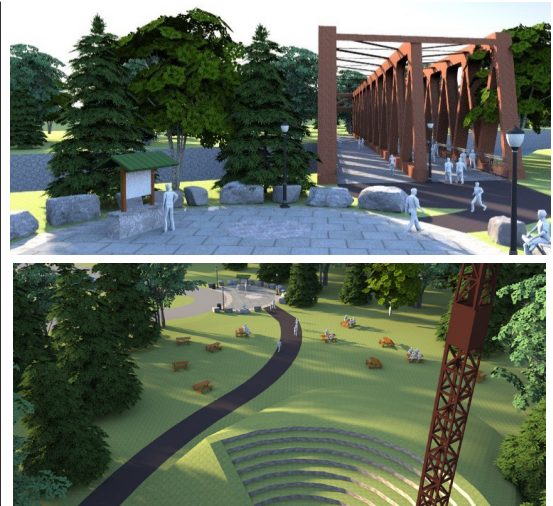
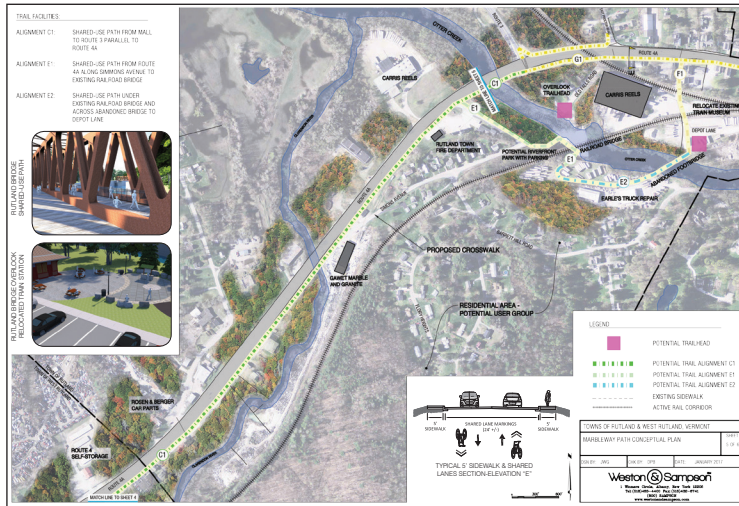
- bike trail design & permitting
- mid-block crossing
- floodway mapping & permitting

client contact

Susan Schreibman
Specialty Project Manager
City of Rutland
802-353-0005
sschreibmangross@gmail.com

MARBLEWAY MULTI-USE PATH FEASIBILITY STUDY

city of rutland and town of west rutland, vermont



The Town of West Rutland and the City of Rutland contracted Weston & Sampson to develop a feasibility study for a multi-use path connecting the two communities. The study identified target user groups and determined potential pathway routes.

The study analyzed existing conditions of the project area utilizing GIS data, identifying utilities, natural resources, and permitting concerns, and determined a preliminary cost estimate and time line for the project. Public involvement and input identified the needs and concerns of the community. The project team coordinated with the Vermont Agency of Transportation to develop potential path routes, determine surface materials, and identify Right of Way challenges that might impact the design of the trail.

- multi-use path
- feasibility study & existing conditions analysis
- cost estimation
- public outreach
- GIS
- state agency coordination

client contacts

Mary Ann Goulette
Town Manager
Town of West Rutland
802-438-2263
mgoulette@westrutlandtown.com

Byron Hathaway
Road Commissioner
Rutland Town Highway Department
802-353-0540
rthighway@rutlandtown.com

TACONIC MOUNTAINS RAMBLE STATE PARK MASTER PLAN

vermont department of forests, parks, & recreation



Weston & Sampson was selected by the Vermont Department of Forests, Parks, & Recreation to provide architectural and engineering design services for the development of a master plan for scenic Taconic Mountains Ramble State Park. The plan aims to accommodate the current and increasing level of use of the park year-round, while maintaining the natural/rustic beauty and feel of the area.

The comprehensive plan will provide recommended improvements for visitor and service entrances and exits, vehicular and pedestrian circulation, parking, trailer relocation, facility enhancements, park office and restroom buildings, applicable utilities, wayfinding signage, and potential new recreation opportunities.

All design recommendations will consider the natural resources of the property, soils, envisioned uses, land use history, impact to natural systems, visual resources, and rural character of the area. In particular, Weston & Sampson's designers respect the legacy of the former owners of the property and seek to preserve the masterfully built Zen garden and expansive overlooks. Critical habitats of the bobolink and of state-threatened and endangered plant species also exist across the property, and park enhancements will be designed to protect these ecologically sensitive features. Additionally, all program elements are being developed in accordance with the Americans with Disabilities Act (ADA), Americans with Disabilities Act Accessibility Guidelines (ADAAG) for recreational facilities, and applicable life safety, utility, and health codes.

Weston & Sampson is also incorporating Green Stormwater Infrastructure and best management practices (BMPs) to allow natural vegetation to filter stormwater runoff, protect sensitive wetlands and streams, and provide wildlife habitat.

- master plan development
- public outreach
- green stormwater infrastructure
- best management practices (BMPs)
- trail design
- habitat protection and enhancement
- regionally sensitive design vernacular

client contact

Reuben Allen
Parks Regional Manager
Vermont Department of Forests,
Parks, & Recreation
802-779-6054
reuben.allen@vermont.gov

TRAILS & RECREATION MASTER PLAN

town of dover, vermont

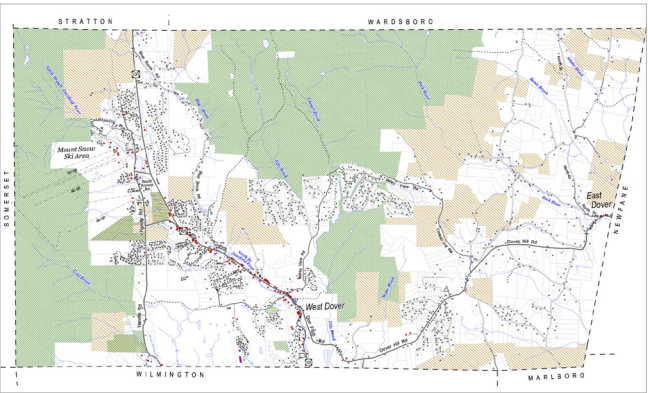


photo source: *The Brattleboro Reformer*

Weston & Sampson prepared a comprehensive Trails and Recreation Master Plan for the Town of Dover. The plan will serve as a guide for the next 25 years to ensure an appropriate balance of facilities and amenities is provided throughout the community. The Trails and Recreation Master Plan provides a systematic approach for the development and delivery of town services, prioritization of demand and opportunities, and generation of a strategic action plan.

With the help of Morton Trails, LLC, Weston & Sampson evaluated all of the town's recreational venues and trail systems. Upon completion of the existing conditions inventory/analysis, our project team completed a needs assessment to identify trends among various user groups, including residents, business owners, and tourists. One trend that emerged was the desire for a disc golf course near the core commercial district in the town. Weston & Sampson worked with local proponents and reputable disc golf designers to develop a design and budget model for the town to use to guide the future installation of the park. We also led a comprehensive stakeholder and community engagement program to create a framework for future planning projects and programming.

As part of our efforts, our team provided preliminary cost estimates and outlined estimated annual expenses. Finally, we determined potential revenue resources that could be used to fund the achievement of the goals identified in the master plan.

The master plan will identify areas with potential for expansion or development as parks, trails, and recreation spaces.

- **trail assessment & planning**
- **recreation program appraisal**
- **community engagement**
- **park partnerships evaluation**
- **demographics and trends analysis**
- **cost estimating**

client contact

Andrew McLean
Town Clerk
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NATURE TRAIL MAPPING

village of ravena, new york

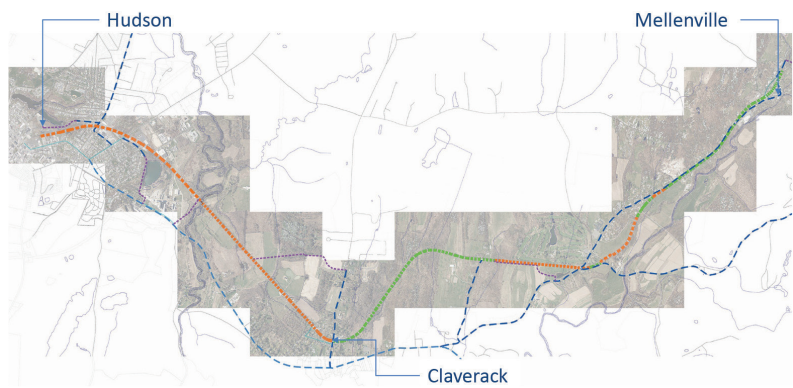


Weston & Sampson worked with La Farge Building Materials (previously known as Blue Circle Cement) to map a network of proposed nature trails at Deer Mountain.

Weston & Sampson (formerly Fraser & Associates) prepared a map of proposed nature trails in coordination with the environmental personnel of Blue Circle. In total, the network of trails encompasses an area of approximately 300 acres.

BOSTON & ALBANY RAIL TRAIL FEASIBILITY STUDY

columbia county, new york



Weston & Sampson is working with the Columbia Economic Development Corporation to provide feasibility planning and design services for the development of the former B&A rail bed from the City of Hudson to the Harlem Valley Rail Trail in Columbia County. The feasibility study will provide trail design recommendations, including a proposed trail route, trail amenities, and trail design standards. The project area consists of 7.5 miles of trails to accommodate walking, biking, cross-country skiing, snowshoeing, and equestrian users.

Weston & Sampson is gathering preliminary data for the study through site visits, client interactions, and resource mapping. With information gathered during the inventory/analysis phase, we will prepare an alternatives analysis and recommendations for design. Design recommendations will correlate to each particular segment of the alignment, while ensuring a consistent design and character for the trail. Our design team will prepare maps for the overall trail master plan, as well as specific sections and segments. As a part of this task, the project team will prepare the following:

- Opinion of probable cost estimates (trail, support facilities, alternative alignments)
- Suggested phasing plan
- Funding and operational strategies

We are identifying the abutting/adjacent property limits and ownership using existing assessor and GIS information and conducting assisted outreach to these property owners during the analysis phase. After sufficient analysis of the existing conditions is complete, Weston & Sampson will facilitate a public outreach process to confirm the needs of residents and allow the project team to communicate with residents, user groups, public and civic associations, and key community representatives.

Utilizing the data and information prepared throughout the project, our team will prepare a cohesive feasibility study. Once the participating parties have concurred on the findings of the study, Weston & Sampson will craft the executive summary such that it can serve as a stand-alone document and the basis of ongoing public education and citizen involvement efforts.

- **feasibility study and design recommendations for 7.5 miles of multi-use recreational trails**
- **site inventory/analysis**
- **preparation of cost estimates, project phasing, and funding strategies**
- **comprehensive public engagement process**

client contact

F. Michael Tucker
President & CEO
Columbia Economic
Development Corporation
4303 Route 9
Hudson, NY 12534
518-828-4718
mike@tuckerstrategies.com

HUDSON RIVER TRAIL MASTER PLAN

city of beacon, new york



Weston & Sampson worked with the City of Beacon, New York to develop a Master Plan for the Hudson River Trail from the Beacon Train Station to the Town of Fishkill. The Hudson River Greenway Trail System is a state-wide, comprehensive trail that aims to ultimately connect Saratoga County to Manhattan.

This segment of the trail is proposed to be located adjacent to an active Metropolitan Transportation Authority (MTA) railroad corridor, which runs parallel to the Hudson River. The design team was responsible for the initial mapping and trail layout for this project, including developing options that address the trail's close proximity to the rail line. Working closely with the city and project stakeholders, Weston & Sampson developed a cohesive master plan. As part of the trail layout/planning process, we considered:

- level of use
- active and passive users
- safety and liability concerns
- connecting nearby destinations
- environmental impacts
- cost implications
- impacts to public rights-of-way and private property
- quality of the user experience

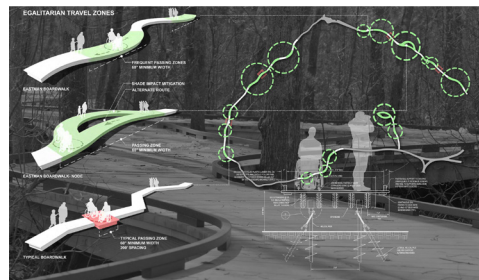
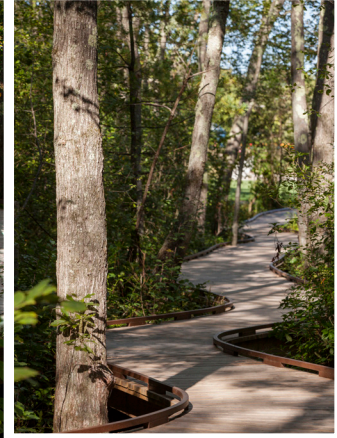
Weston & Sampson recently began preliminary designs for the construction of the trail. Services will include design of the trail through the woodland corridor, pedestrian/bicycle bridge crossings over existing streams, and a trailhead at the Beacon Metro North Rail Station.

client contact

Mark Price
City of Beacon Recreation Director
Beacon, New York
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mprice@cityofbeacon.org

EASTMAN CONSERVATION AREA IMPROVEMENTS | NEWMAN ELEMENTARY SCHOOL TRAILS & ATHLETIC FIELDS

town of needham, massachusetts



The Town of Needham retained Weston & Sampson to design boardwalks/trail improvements and sports field upgrades to the Eastman Conservation Area. The Eastman Conservation Area serves as an outdoor learning laboratory for the elementary school and the Needham Science Center, which is located at the school. The conservation area possesses an amazingly varied landscape within a relatively small footprint that includes wetlands, meadows and streams, open bodies of water, uplands, and rock outcroppings.

Weston & Sampson worked closely with education professionals to develop compelling interpretive and interactive signage that enhances teaching at various “learning pods” located throughout the site. Specific work included the design of boardwalks, at-grade trails, overlooks, piers, and a wide range of other site amenities that help to support the storytelling about wildlife and wetlands and woodlands and other environmental features that are unique to this rich and varied conservation landscape. By design, boardwalks and outdoor classroom spaces are minimally invasive and unobtrusive; they were constructed in a way that allows users to experience the unique ambiance of the wetland resources from within the environment and not merely from the perimeter.

- wetland/conservation area improvements
- outdoor learning laboratory & signage
- boardwalks, trails, overlooks, and piers improvements
- recreation field upgrades

client contact

Edward Olsen
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Public Service Administration Building
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eolsen@needhamma.gov

PROJECT APPROACH & SUGGESTED ALTERNATIVE IDEAS

PROJECT APPROACH

Weston & Sampson admires the Town of Wilmington's focus and desire to improve the Hoot, Toot and Whistle Trail. The trail will continue to be an important 2-mile trail along the Harriman Reservoir and North Branch Deerfield River from the Mt. Mills East Picnic Area and Boat Launch to the Riverwalk Path. Not only will this key connection continue to provide non-motorized transportation access for residents, but it will also improve the existing recreational opportunity for walkers and bikers, an environmentally sensitive amenity, and a sustainable pathway.

Based on our experience with similar trails in other communities, we are confident this project will:

- Improve a valuable community amenity for the residents and visitors.
- Maintain the area's recreational and trail.
- Provide an impetus for greater community investment and pride.

Our team's thoughtful, pragmatic multi-use path designs, experience throughout the Northeast and across the country, and knowledge of regulatory requirements/guidelines enables us to provide a "preview" of what you can expect from us if we are selected as your consultant.

In this section, we present an overview of our understanding of your project and general approach for your consideration. Our approach to this project highlights the fact that we see the committee members as an integral part of the project team. As much as possible, we intend to involve the Wilmington Trail Committee and Agency of Natural Resources. Ultimately, this approach allows the town and project stakeholders a greater investment.

Context Sensitive Facilities

Our intent is to develop remediation strategies that will address wet and muddy conditions and hazardous terrain with a comprehensive approach that will provide long term sustainability. The strategies will be sensitive to existing environmental resources within the environment. Analyzing existing conditions will ensure impacts to resources are minimized. The final improvements will identify potential impacts and opportunities to sensitive environmental resources within the study area. In addition, the remediation practices are expected to provide an appreciation for the existing natural areas, potentially expanding access and accommodating families with strollers, bicyclist, and those with physical and mobility limitations, as well as recognizing winter uses such as cross-country skiing and snowshoeing.

Functionality & Efficiency

We recognize that users have a wide range of reasons for walking and biking. When developing recommendations for this project it is important to seek to accommodate users of all ages, abilities, and interests. The trail should reflect sensitivity to the surrounding context and provide a positive user experience that reflects the need for access within the study area and to nearby destinations, including community resources. This can be achieved through creating a 6-foot corridor wherever possible and develop smooth, well drained, and gently sloped surfaces, while minimizing impacts to the environment. The natural landscape made up of terrain, wetlands, and streams will be reviewed carefully to avoid disturbances and impacts.

Safety & Liability

Safety is an important aspect for all users, and all remediation practices should provide safe and consistent walking and bicycling facilities based on conformance with state and federal standards and guidelines. The Final Wilmington Trail Feasibility Study and Scoping Report for the Hoot, Toot & Whistle Trail and Village Gateway, prepared in September 2007, will be a resource used throughout the project and during the site visit of the existing trail. In addition, we will employ trail building best practices provided in the Vermont Town Forest Trail Design Guide.

PROJECT APPROACH & SUGGESTED ALTERNATIVE IDEAS

Wilmington Trail Committee Support

Committee engagements are essential to the success of the project. We have seen firsthand the benefits reaped when groups participate in the planning process. We plan to meet with the Committee and the Agency of Natural Resources (ANR) early in the process to discuss expectations for the project. One project goal is to avoid site disturbance overall, and by doing so, avoid the need for ANR permitting as much as possible.



Planning with Implementation in Mind

Often, plans and studies are developed without consideration for how the recommended solutions will be permitted, constructed, and funded.

The plans will demonstrate compliance with the 2013 license agreement between Great River Hydro and Town of Wilmington, honor the Grant of Conservation Restrictions with Vermont Land Trust, and reflect a complete review of the Wilmington Rail Trail Wetland & Streams Crossing Wetland Permit Plan located in Exhibit A of the License Agreement between Great River Hydro and the Town of Wilmington.



An estimate of probable construction costs will be developed to understand the costs, materials, and permitting required for project completion. Estimates will compare construction related costs using motorized vehicles for hauling in new materials, such as gravel, versus remediation practices using adjacent natural, on-site materials. Finally, the estimate will identify state permits required and include engineering fees related to the permits.

Consequently, an explanation of design decisions, including statutes that impact those decisions, will outline the required steps towards construction and will be a valuable tool for the committee to use once the design is complete. These steps are critical to ensuring that a project can be properly funded, permitted, and constructed within the necessary timeframes identified.

INTRODUCTION

Weston & Sampson has prepared this response to provide planning and design services for the improvements to the Hoot, Toot & Whistle Trail. The plan will provide trail design recommendations, including recommendations to improve the existing trail route and amenities, utilizing existing trail design standards.

SCOPE OF SERVICES

Task 1 | Kickoff Meeting & Site Visit

At the outset of the project, we propose to conduct a kick-off meeting with the Wilmington Trail Committee and the Agency of Natural Resources, to review project expectations, timelines, permitting, and scheduling. In addition, we will review and discuss any requirements or constraints of the project site. In addition, the project team conduct one site visit, preferably with a committee representative, to investigate existing conditions and discuss possible remediation strategies. A base map will be prepared for identifying existing conditions for use during the kick-off meeting and the site visit. We anticipate that this project will be completed within four to five months.

PROJECT APPROACH & SUGGESTED ALTERNATIVE IDEAS

This task will include completing an inventory and analysis of the existing conditions within the project area utilizing GIS and other publicly available data. The following previously completed analysis will be reviewed as a part of this task:

- The Final Wilmington Trail Feasibility Study and Scoping Report for the Hoot, Toot & Whistle Trail and Village Gateway, September 2007
- Vermont Town Forest Trail Design Guide

To complete the existing conditions base map of the project area, we will use the following spatial data:

- Property Information: tax parcel boundaries, ownership information, right-of-way boundaries, agricultural properties with tax exemptions, and protected parcels within a half-mile of the initial route
- Roads/Railroads
- Historic resources: historic structures, districts, and old train stations
- Aquatic resources: ponds, streams, vernal pools, wetlands, floodplains (local, state and federal)
- Environmental resources: vegetation, specials of concern or sensitive habitat, invasive species, rock outcroppings, erosion/drainage
- Soils: soil classifications, including hydric soils and soils with a high water table
- Flood hazards and soils identified as frequently flooding
- Topography: elevation, slope, and contours derived from high-resolution one meter DEMs
- Utilities: water, sanitary sewers, electrical and gas lines, telephone, etc.
- Other pertinent available data

Within this phase, the Weston & Sampson team will have taken the opportunity to attend a kick-off meeting to review expectations, prepare a base map, and conduct a site visit to locate field locate improvement areas. These critical steps will prepare the team for refining preliminary remediation strategies, quantifying their impacts, calculating costs, and preparing an improvements plan.

Deliverables:

- Kick-off meeting minutes
- Existing conditions memo/base mapping results from the site visit, with identification of preliminary remediation strategies

Task 2 | Preliminary Improvements Plan

Based on the information gathered and determined in the prior phase, the project team will develop an improvements plan which will include plans, designs, and drawings. Design recommendations will correlate to each section of the trail, while providing an overall consistent design and character to the trail and will identify:

- Trail alignment, surfacing, and width
- Topographic conditions (features, drainage problems, steep slopes, etc.)
- Site context (access points, roadways, driveways, right-of-way width and length, surrounding land-uses)
- Site features (existing amenities, culverts)
- Site obstacles/undesirable conditions (embankments, stream crossings, utilities)

Our analysis of potential trail alternatives, improvements, and overall feasibility will focus on identifying recommendations for the following key aspects:

- Multiple Users / Level of Use - Develop alternatives with potential users in mind.
- Safety and Liability – Provide recommendations that conform with state and federal standards/guidelines.
- Functionality / Efficiency / Network Connections - Provide a positive user experience and opportunities to provide direct connections and access nearby destinations. The trail cross section should be designed to accommodate the range and volume of path users.
- Environmental Impacts - Identify environmental impacts and opportunities for pre-mitigation through

PROJECT APPROACH & SUGGESTED ALTERNATIVE IDEAS

rerouting, native species revegetation, and design alternatives.

- Cost – Develop cost estimates for alternatives where improvements are being considered.
- Private Property Impacts & Right-of-Way Needs - Identify impacts of alignments on private properties and opportunities to minimize/mitigate impacts. Evaluate alternatives in light of property requirements.
- Quality of User Experience - Evaluate alternatives that offer aesthetic improvements, consider sustainability and potential maintenance requirements.
- Review limits of construction in relation to Act 250 and its exceptions.

Weston & Sampson will conduct a second Wilmington Trail Committee and Agency of Natural Resources meeting to review the plans, obtain comments, and review potential permitting.

Deliverables:

- Committee & ANR meeting minutes
- Existing conditions base mapping
- Improvements plans, including a title page, typical sections for the proposed improvements, and cross section(s), including proposed materials and identifying new or modified subsurface drainage
- Explanation of design decisions, statutes and permit requirements that impact those decisions
- Opinion of probable construction costs, including permitting and engineering costs related to permits

Task 3 | Final Improvements Plan

Utilizing the data and information prepared in the previous tasks, the Weston & Sampson finalize the deliverables outlined in Task 2 and submit to the Wilmington Trail Committee.

Deliverables:

- Plan (draft/final) in digital and three (3) copies in hardcopy format

We have established a proposed schedule for the delivery of design services for improvements to the Hoot, Toot, & Whistle Trail in the Town of Wilmington, Vermont. This proposed schedule can be adjusted to best meet the requirements of the town, and all dates are subject to review and discussion.

We have prepared the following project schedule for review and discussion.

PROPOSED SCHEDULE

The key to achieving schedule milestones and deliverable dates is assigning specific tasks to individuals who have proven records of meeting the quality and budget controls required by your project. Our **principal-in-charge, Daniel Biggs, RLA, ISA, CERP**, will be responsible for resolving any resource constraints. If necessary, he will take immediate steps to commit additional resources to ensure conformance with your schedule requirements. As the project progresses, we will continuously monitor our performance to verify compliance with schedule and cost constraints.

In addition to our proposed team, Weston & Sampson's full-service firm has an available staff of 700 professionals, which can be engaged if necessary. With this depth of resources, we have sufficient staff to work on multiple projects simultaneously, and we are able to assure staff continuity and prompt delivery of service.

Our team's principal-in-charge, project manager, designers, and engineers have the availability and capacity to begin work immediately and meet the project deadline.

Task	Month 1	Month 2	Month 3	Month 4	Month 5
1: Kickoff Meeting & Site Visit	M				
2: Preliminary Improvements Plan		M			
3: Final Improvements Plan				M	

"M" = Project Meeting

CAPACITY & ABILITY TO MEET SCHEDULES

Weston & Sampson consistently establishes workable project schedules or works within pre-set project schedules. Our detailed project schedules identify key milestone and deliverable dates, including reference to tasks, task descriptions, anticipated task duration, allocated submittal review periods, and interrelation with other work tasks. As part of these schedules, we also identify "critical time" events that require input from town staff or other key milestone events. We have provided our proposed timeframes for work completion above.

As project principal, **Daniel Biggs, RLA, ISA, CERP** will provide the corporate support necessary to accomplish your project. Dan brings to this project more than 15 years of experience on consulting and infrastructure improvement projects, including master planning, design, and construction administration services. His experience, along with that of our project manager, **Douglas Gerber, RLA**, exemplifies our team's ability to effectively manage this project for the town. Dan will maintain close contact with Doug to assure that the project is progressing according to schedule and budget. These individuals will be available to town staff, in addition to invested stakeholders, as well as property owners and any involved businesses to address your project needs.

Weston & Sampson has the depth of resources to respond to your needs and assure the assignment of highly qualified personnel for all your project tasks. During critical points, these personnel will devote up to 100% of their time, as needed, to complete the work within your timeframe.

Doug will collaborate with the town to determine staffing needs. He will establish clear lines of responsibility and communication with the town, as well as among our staff members. The project management team will monitor individual task budgets and team member assignments, supervise project meetings, and be available to interact with town staff and address project issues. Our project principal, project manager, and key staff members will work collaboratively to drive the schedule and maintain a high level of proactive communication with the Town of Wilmington. Representatives of our team will be available to make site visits and attend local meetings, as required. Our team will maintain constant and consistent communication through regularly scheduled meetings, phone calls, and e-mail to discuss the progress of your project.

All our project team members recognize the importance of establishing proper project controls to meet an established schedule. We will manage the various tasks and team members to achieve completion of our scheduled milestones and will monitor the project schedule and compare it to the target schedule. This observation allows us to adjust the basic logic behind the schedule and the relationship between tasks to adapt to variations in resource requirements. Our computer-based management information system continuously monitors our project financials. Detailed project cost data will be made available to all team members and regular estimates to complete will be developed to ensure our project finishes on time and on budget.

We are committed to fully attending to this project and exceeding your expectations at every turn. Should you believe, at any time, that this is not the case, we pride ourselves on an open and candid relationship with all our clients and, therefore, would want to know so that we can make it right.

COST ESTIMATES & OVERALL PRICE

Weston & Sampson is committed to providing maximum value on all our projects, and we are pleased to provide our proposed costs to collaborate with the Town of Wilmington on the improvements to Hoot, Toot, & Whistle Trail. Given our professional qualifications and experience with similar projects, Weston & Sampson is well positioned to provide expert services for this initiative.

We have based the following pricing information on our understanding of the opportunity, our experience with similar projects, the scope of services outlined in the RFP, and the information we have included in Section 4, *Project Approach & Suggested Alternative Ideas*. We are willing to modify our scope and budget to meet the needs of the town; we would be happy to meet with you to further discuss our qualifications, as well as our approach, schedule, and pricing.

Task	Proposed Cost
Task 1 Kickoff Meeting & Site Visit	\$3,500
Task 2 Preliminary Improvements Plan	\$9,000
Task 3 Final Improvements Plan	\$3,000
Reimbursable Expenses	\$500
Total	\$16,000

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E: ashley@summitcontractingnewengland.com

Department: Town of Wilmington, VT
Hoot, Toot, & Whistle Trail
Contact: Bob Fisher, WTC Chair
Contract: Building, resurfacing, and reconstructing of HT&W Trail

Scope of Work: Project, 2 mile trail from the Riverwalk path to MT. Mills East Picnic Area and Boat Launch plus a short spur connecting to Mill Street. Work consists of repair, reconstruction and resurfacing of trail.

Phase 1: All applicable site research, meetings with town, trail committees and land owner communication, permits (Act 250, etc) and agreements (including Great River Hydro). Billable paperwork and designs. Trail engineering, marking and layout with Best trail engineering practices and execution. Includes all flagging, re-routing, and redesigning of trail.

Timeline for phase 1 deliverables-90-180 days

Phase 1 Cost Bid- Estimated \$35,000.00

Phase 2: Work from starting point of approximation of boat launch and picnic area through Sited # 1 and #2 major trail repair sited and shown in attachment. Site work consists of trail creation in areas, addressing three embankments and retaining walls with on site and added material, trail widening, elevation where needed and available, ditching where needed and available and up to 7 culverts deemed required for erosion repair and future control through and including major repair #1 and #2 sited and shown in attachment.

Timeline for phase 2 deliverables- 60-90 days

Phase 2 Cost - \$125,000.00

Phase 3: Long term comprehensive solution, work around and/or needed relocation of the trail with the primary focus on the current sewer line access and on going water problems arising under it. It would also include 5 currently identified spots that need significant water redirection and culvert drainage. Trail redesigning and widening for as close to ADA leveling as achievable. Note: this phase has variables due to town easements, property owner land, and access with machinery. Redesign lengths and unforeseen sewer and water issues that are subsurface

Timeline for phase 3 deliverables-TBD * effected by phase 1 and testing

Phase 3 Cost TBD *effected by phase 1 and testing.

Phase 4: Final resurfacing and compaction of the final design of the phase 3 with the approximation of \$4,000.00 linear feet.

Timeline for phase 4 deliverables-45-60 days

Phase 4 Cost- \$60,000.00

Qualifications and References-Summit Contracting is a New England municipal, state and federal contracting company providing services to five states in New England and several federal departments. Specific to this RFP scope of work. Summit Contracting has for years provided service as the Vermont department of rails contractor including trail training, mowing, widening, tree removal, trail cutbacks, resurfacing and more. Please feel free to contact Vermont's Agency of rail for any specific necessary questions and qualifications regarding experience and trail work.

References:

William Gray-Title: VTRANS Rail and Aviation-Property Management.

P: 802-371-7706

E: williamgray@vermont.gov

Mark Fitzgerald-Title: Vermont Agency and Transportation Property Management Chief

P:802-461-5971

E: mark.fitzgerald@vermont.gov

Dan Delabruere: Rail and Aviation Bureau Director

P:802-279-2647

E: Daniel.delabruere@vermont.gov

Bob Fisher
2 East Main St
PO Box 217
Wilmington, VT 05363
bob@fisherandfisherlaw.com

To: Bob Fisher and the Wilmington Trail Committee,

MSK Engineers is excited to have the opportunity to submit the following proposal to assist the Wilmington Trail Committee with engineering consultation, alternatives assessment, final design, and construction plans for improvements to the Hoot Toot and Whistle Trail in Wilmington, Vermont.

Project Understanding

The Hoot Toot and Whistle Trail includes a 2-mile trail from the Riverwalk Path, which commences in the Wilmington Village area, and connects the village area with pedestrian and bicycle access to Harriman Reservoir at the Mt. Mills East Picnic area and boat launch. The trail is very popular and heavily utilized by both local residents and visitors to the area. Currently the trail conditions in many sections are wet and muddy, show signs of considerable erosion, and/or have hazardous terrain with either root intrusion or rocky, uneven surfaces. The Trail Committee indicates in their RFP that proposed improvements to the trail would provide “long term sustainability and more inclusive, public recreational access” and once constructed could “offer a more typical rail-trail user experience, thereby facilitating increased usage and enjoyment of a local, community asset”. Specifically, the RFP notes the goals of the improvements include “widening the trail and rerouting or rebuilding the path with native, surrounding materials or gravel to create a well-constructed, more level or more gently sloping surface”. Care must be taken to ensure that proposed improvements are compatible with existing Licensing Agreements and Conservation Restrictions and will have to be evaluated to identify environmental permitting requirements which could include but are not limited to: Wetlands, Stream Alterations, ACT 250, Stormwater, Historical Preservation, and River Corridor/Shorelands permitting.

Proposed Scope of Work

Specifically, our scope of work for this project includes:

1. Pre-Design:
 - Includes a thorough review of the previous 2007 Scoping Report, License Agreement with Great River Hydro, existing permits and historical artifacts significance review
 - Client meeting to kick off project objectives
 - Wetland delineation/identification performed by sub-consultant engaged specifically for this task (End of May 2022)
 - Comprehensive onsite inspection and existing conditions survey
 - Existing conditions plan creation
2. Alternatives Assessment:
 - Includes evaluation of trail conditions, alternatives for trail realignment, and alternatives for improvements, using existing, natural materials or gravel to create the best quality trail upgrades and repairs that satisfy the project goals. Followed by assessment of those alternatives for preliminary cost and potential permitting requirements and then meeting with the Trail Committee to discuss alternatives and assist with the choice of a final conceptual design.

- Project Goals:
 - Employ trail building best practices in Vermont Town Forest Trail Design Guide
 - Create a minimum 6 -foot corridor where possible
 - Achieve a level or gently sloping surface grade
 - Minimize environmental impacts on vegetation, terrain, the natural landscape, wetlands and streams and surrounding vicinity (motorized equipment will be allowed for the purposes of trail building)
 - Evaluate alternative routes to achieve the desired path, grade and surface quality while avoiding the need for Agency of Natural Resources (ANR) permitting as much as possible.
 - Comply with current Licensing Agreements and Conservation Restrictions and ANR permitting.
- 3. Conceptual Design of chosen alternative and Preparation of Construction Plans:
 - Includes preparation of a Construction Plan set that a contractor can execute for the chosen alternatives for trail improvements, a finalized Cost Estimate for the chosen alternative, and identification of the required permits for chosen alternative and their associated costs.

Cost Proposal

MSK Engineers will provide the above scope of work in accordance with conditions of the executed engineering agreement on the schedule below:

Pre-Design:	\$11,450.00
Alternatives Assessment:	\$7,100.00
Final Design and Construction Plans:	\$4,620.00
Total time and expense not to exceed:	\$23,170.00 (see the attached rate schedule in appendix 1)

The project owner will be notified when the total invoiced amount for the project has reached 80% of the estimated budget. MSK and the project owner will review the remaining outstanding tasks and assess the costs associated with completing the work.

Proposed Timeline

April-May 2022: Pre-Design/collection of field data. Wetland delineation (and therefore existing conditions survey) cannot occur until after snow is gone and growing season starts.

June-July 2022: Alternatives Assessment: This phase would include meeting(s) with the client to discuss design decisions and statutes that impact those decisions. (RFP Deliverable #2)

August-September 2022: Conceptual Design and Preparation of Construction plans, cost estimates and identifying permitting requirements. This phase would include Plans, designs, and drawings that a contractor can execute (RFP Deliverable #1), Cost estimates for construction including comparison of gravel vs. natural onsite materials (RFP Deliverable #3) and identification of state permits required and cost of permits (RFP Deliverable #4)

Thank you for considering MSK to assist the Wilmington Trail Committee in enhancing the Hoot Toot and Whistle Trail. Please reach out to Jess Rizio (jrizio@mskeng.com) if you have any questions or need further clarifications. We look forward to the opportunity to work with you and The Wilmington Trail Committee on this project.

Sincerely,
The team at MSK

APPENDIX 1

Consultant's Standard Hourly Rates

- Standard Hourly Rates include salaries and wages paid to personnel in each billing class plus the cost of customary and statutory benefits, general and administrative overhead, non-project operating costs, and operating margin or profit.
- The Standard Hourly Rates apply only as specified in Paragraphs 2.01, 2.02, and 2.03, and are subject to annual review and adjustment.

Job Description	Billing Rate – Per Hour
Principal Engineer	\$190.00
Licensed Engineer I	\$125.00
Licensed Engineer II	\$150.00
Surveyor	\$120.00
Engineer I	\$80.00
Engineer II	\$90.00
Engineer III	\$100.00
Engineer IV	\$110.00
Technician I	\$65.00
Technician II	\$75.00
Technician III	\$85.00
Technician IV	\$95.00
Technician V	\$110.00
Technician VI	\$120.00
Administrative I	\$60.00
Administrative II	\$70.00
Administrative III	\$80.00
Administrative IV	\$90.00
Administrative V	\$100.00
Administrative VI	\$125.00

Subconsultant & Vendor Expenses:

Subconsultants @ cost plus 8% Outside
Vendors @ cost plus 8%

Administrative Expenses:

Postage & Shipping @ Cost
Other Administrative Expenses @ Cost

Reproductions (provided in-house):

8.5 x 11 one-sided copy @ \$0.08/each
8.5 x 11 two-sided copy @ \$0.12/each
Mylar or Vellum plots @ \$15.00/each
36 x 48 print @ \$8.00/each
24 x 36 print @ \$5.00/each

Travel Related Expenses:

Auto Travel (to include fuel & service charges): N/A
Other Travel (to include air fares, rentals, tolls, etc.): N/A
Meals & Lodging: N/A



MSKENG.COM

BENNINGTON ADDRESS

150 Depot Street | PO Box 139
Bennington, VT 05201

MONTPELIER ADDRESS

193 Spring Hollow Lane
Montpelier, VT 05602

STATEMENT OF QUALIFICATIONS:
Transportation Infrastructure



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- 05 Transportation Projects and References



FIRM PROFILE: MSK ENGINEERS

Since 1993

OUR MISSION is to advance infrastructure that helps communities thrive by ensuring that people are safe, healthy, and connected.

PRIMARY CONTACT

Jason Dolmetsch, President
150 Depot Street | PO Box 139
Bennington, VT 05201
802-447-1402 ext. 101
jdolmetsch@mskeng.com

BENNINGTON ADDRESS

150 Depot Street | PO Box 139
Bennington, VT 05201

MONTPELIER ADDRESS

193 Spring Hollow Lane
Montpelier, VT 05602

Firm History

MSK Engineers was founded in Vermont in 1993 as a small, locally focused firm providing civil engineering, survey, and construction administration services in southwest Vermont. In 2015, after 17 years with the company, civil engineer Jason Dolmetsch took over the practice. Shortly after, in early 2016, Town of Bennington residents and officials confronted the discovery of PFOA in the town's drinking water. MSK's key role in the subsequent water line extension project helped spark the company's growth and diversification.

Today, MSK is headquartered in downtown Bennington and shares offices with our partner firm, Goldstone Architecture. We opened a second office in 2020, in Montpelier. We serve clients throughout Vermont as well as in New York, Connecticut, and Colorado.

Services

Civil, Environmental, & Geotechnical Engineering

MSK has more than 20 years of experience in civil engineering. Led by company president and chief engineer Jason Dolmetsch, P.E., our civil engineering division has successfully taken on major municipal water system expansions, institutional wastewater system tie-ins, and stormwater site plans across scales, from residences to college and hospital campuses, as well as site development for multimillion-dollar urban redevelopment efforts, school properties, and affordable housing projects.

Staff in our growing environmental and geotechnical engineering divisions bring decades of experience on challenging projects. Our senior environmental engineer, Patrick Smart, P.E., has worked on wastewater and mine remediation design and construction projects nationally and internationally. Our senior geotechnical engineer, Peter Heynen, P.E., ran a successful firm in the greater New York City area for many years and led major geotechnical investigations for new high-rise developments in New York City and beyond, as well as dam engineering projects, bridge footing investigations, retaining wall designs, and remediation of slope failures.

Both our environmental and geotechnical divisions add depth and value to our expanding portfolio of work. Our junior staff regularly cross-train across each technical division, allowing MSK to provide consistent, high-quality, and innovative service to our clients.

Financial Management and Planning

MSK has helped clients develop phased capital improvement plans, assisted with the identification of and successful application for funding sources, and developed creative, effective funding arrangements, all areas of expertise for Mr. Dolmetsch. We have also assisted municipal clients with the financial management of construction escrow accounts, a service overseen by Stephanie Mulligan, our finance director, who contributes her 15-plus years of experience in accounting for institutions and businesses.

In-House Survey

MSK's growing in-house licensed survey team—headed by Eamon Mulligan, L.L.S., who has more than a decade of professional surveying experience—allows us to provide responsive, timely client service before, during, and after the construction phase.

Permitting & Regulatory Assistance

MSK's senior permitting specialist, Abby Chaloux, is a key player in MSK's daily and weekly planning activities, giving her a comprehensive and constantly up-to-date understanding of MSK's projects and permitting priorities. She brings to this work her decade-long background in real estate law and contracts, which allows her to act as a valuable resource for our survey team on questions about a variety of property-related legal matters. She also supports our engineering team on questions of compliance and stays current on permitting requirements as they change over time. Staff engineer Andrew Rodriguez, P.E., also plays a critical role in regulatory compliance through his focus on stormwater-related permitting, including SWPPPs. Through careful planning and a deep knowledge of permitting, including Act 250, Abby and Andrew keep client projects on time and on budget.

Construction Administration

Staff engineer Nicholas Ratzer develops contract documents and provides guidance and oversight of construction administration and inspection activities across many sites. In particular, Mr. Ratzer is responsible for construction administration and inspection on a 4-year, \$25 million water line expansion project for the Town of Bennington, managing effective communication with the public, contractors, the municipality, and colleagues while meticulously tracking quantities and ensuring that the construction documents and permitting compliance requirements are implemented at every stage.

MSK Staff



JASON DOLMETSCH, P.E. President

YEARS' EXPERIENCE 23 with this firm
EDUCATION BS, Civil Engineering | Rensselaer Polytechnic Institute
CERTIFICATIONS Registered Professional Engineer, VT, NY & CT



PATRICK SMART, P.E. Senior Engineer–Environmental Engineering

YEARS' EXPERIENCE 1 with this firm, 16 at other firms
PRIOR WORK VT DEC, 2015-20 | The Johnson Co., 2010-14 | Golder Assoc., 2004-10
EDUCATION MS, Environmental Science & Engineering | Colorado School of Mines
BS, Environmental Engineering | University of New Hampshire–Durham
CERTIFICATIONS Registered Professional Engineer, VT & CO



EAMON MULLIGAN, L.L.S. Chief of Survey

YEARS' EXPERIENCE 15 with this firm
EDUCATION AAS (honors), Civil Engineering & Technology
Hudson Valley Community College
CERTIFICATIONS Licensed Land Surveyor, VT



ABBY CHALOUX Senior Technician–Permitting

YEARS' EXPERIENCE 5 with this firm, 10 at real-estate law firms
EDUCATION BA, Hobart & William Smith Colleges



ANDREW RODRIGUEZ, P.E. Staff Engineer

YEARS' EXPERIENCE 3 with this firm, 7 at other firms
PRIOR WORK Meridian Associates, 2014–18 | Geotechnical Consultants, 2011–14
EDUCATION BS, Civil Engineering; MS, Geotechnical Engineering
University of Massachusetts–Dartmouth
CERTIFICATIONS Registered Professional Engineer, VT, MA, & NY



PETER HEYNEN, P.E. Senior Engineer–Geotechnical Engineering

YEARS' EXPERIENCE 2 with this firm, 52 prior (including Heynen Engineers | MMI | GEI)
EDUCATION BS, Civil Engineering, New England College
AS, Architecture, Wentworth Institute of Technology
Graduate Studies, Geotechnical Engineering, U of Connecticut–Storrs
CERTIFICATIONS Registered Professional Engineer, CT & NY



JOHN SCHELL Staff Engineer

YEARS' EXPERIENCE 2 with this firm
EDUCATION BS, Civil Engineering | Rensselaer Polytechnic Institute
CERTIFICATIONS Engineer-in-Training



BRIANNA SULLIVAN Staff Engineer

YEARS' EXPERIENCE 1 with this firm, 5 at other firms
PRIOR WORK Bohannon Huston, 2019–21 | Brown & Caldwell, 2018–19 | Comprehensive
Environmental, 2017–18
EDUCATION BS, Civil Engineering | Minor in Environmental Engineering
Wentworth Institute of Technology



LIAM MCRAE Technician

YEARS' EXPERIENCE 4 with this firm
EDUCATION BA, Bennington College



NICHOLAS RATZER Staff Engineer

YEARS' EXPERIENCE 5 with this firm, 1 with Naval Facilities Engineering Command (2015-16)
EDUCATION BS, Civil Engineering
New Mexico State University–Las Cruces
CERTIFICATIONS Engineer-in-Training; 8-hour OSHA training | NETTCP Certified in
Paving Inspection, Soils & Aggregate Inspection

Transportation Projects

MSK has completed a variety of mixed-use path projects, including VTrans Municipal Assistance Bureau projects, in communities throughout southern Vermont. We have also designed and overseen the construction of roadway reconstruction and realignment.

Client: Town of Dorset
Project Dates: 2019–present

Permitting:
• VTrans 1111 State Highway Access & Work

Services Provided:
• Engineering
• Survey
• Permitting

Mixed-Use Path Projects (VTrans Municipal Assistance Bureau) Dorset, VT

Vermont State Route 7, a busy state highway, defines the western boundary of the Village of East Dorset. Despite unsafe conditions, village residents walk to the nearby market across Vermont Route 7. In 2019, the Town of Dorset hired MSK to improve cyclist and pedestrian safety. MSK designed a new crosswalk and rapid flashing beacon for the Route 7 crossing and updated aging sidewalk infrastructure in the village. In 2020, MSK provided an existing conditions survey, right-of-way development, a conceptual design, and preliminary cost estimates for a proposed 0.5-mile shared-use path along Vermont Route 30, connecting area attraction H. N. Williams General Store to the shops and restaurants of Dorset Village. The design includes pedestrian safety improvements, including 3 new crosswalks.

■ *Project team members: Dolmetsch, Rodriguez, McRae, Mulligan*

■ *Client Reference:*
Rob Gaiotti, Dorset Town Manager
802-362-4571, ext. 3
townmanager@gmail.com

Client: Bennington County Regional Commission
Project Dates: 2014–2020

Permitting:
• VT Stormwater 9020
• VT DEC Stream Alteration Permit
• USACE General Permit

Services Provided:
• Engineering
• Survey
• Permitting
• Bidding
• Construction Administration

Mixed-Use Pathway (VTrans Municipal Assistance Bureau) Kocher Drive, Bennington, VT

In 2014, the Bennington County Regional Commission identified a need for a safe and appealing 0.3-mile multi-use path running from the Aldi/CVS plaza to Performance Drive, connecting to the town recreational park, and continuing on to an existing path on East Road. MSK was awarded the contract and designed the new bike/pedestrian path to be separated from the roadway with a 10-foot grass median with trees. We also designed a new crosswalk at the intersection of Kocher Drive and Route 7, with a pedestrian refuge and pedestrian-actuated signals, and planned for the elimination of the right-turn-only lane on Route 7 southbound. All intersection interventions are in compliance with VTrans standard specifications and FHWA regulations. We drew plans in Microstation to conform to VTrans survey standards. Construction was completed in 2020.

■ *Project team members: Dolmetsch, Mulligan, Chaloux*

■ *Client Reference:*
Mark Anders, Municipal Project Manager
802-442-0713, ext. 303
manders@bcrcvt.org

Client: Bennington County Regional Commission

Project Dates: 2016 - present

Permitting:

- VTrans Right-of-Way Certificate
- NEPA Categorical Exclusion

Services Provided:

- Engineering
- Survey
- Permitting

Benmont Active Transportation Corridor

Bennington, VT

Benmont Avenue is a heavily traveled roadway connecting the town center to the main commercial corridor. Conditions are unsafe for cyclists and pedestrians: curb cuts in the commercial zone are wide or nonexistent; sidewalks are intermittent; and wide traffic lanes encourage speeding. Nonetheless, Benmont Avenue receives heavy bike and pedestrian use from individuals needing to access commercial resources on Northside Drive. In 2016, MSK began work with the Bennington County Regional Commission to develop a new active transportation corridor that will provide safer bike/pedestrian travel conditions and connect to the town's network of mixed-use pathways. The proposed design has received approval from VTrans, and the project is expected to move into the construction phase by 2023.

■ *Project team members: Dolmetsch, Mulligan*

■ *Client Reference:*

Mark Anders, Municipal Project Manager

802-442-0713, ext. 303

manders@bcrcvt.org

Client: Bennington County Regional Commission

Project Dates: 2016–present

Permitting

- VT River Corridor Protection Rule
- FEMA Flood Insurance Program
- NEPA Review
- Local Permits

Services Provided:

- Engineering
- Survey
- Permitting

▲ Mixed-Use Pathway (VTrans Municipal Assistance Bureau)

Ninja Pathway, Bennington, VT

In 2016, the Bennington County Regional Commission and the Town of Bennington identified a need for a 2.12-mile, 12-foot-wide multiuse trail between the main commercial corridor in the town of Bennington and the Walloomsac River to improve pedestrian and cyclist safety and enjoyment and improve community access to the town's commercial corridor. BCRC hired MSK to lead a VTrans MAB-supported scoping study for path access through the flood zone incursion and river crossing. Milone & MacBroom provided hydraulic modeling of alternative designs, and MSK worked with Goldstone Architecture to create a preferred alternative. Throughout the project, we have complied with the FEMA flood insurance program, the Vermont River Corridor Protection Rule, and the Town of Bennington's local fluvial erosion hazard regulations. MSK also submitted NEPA environmental review documentation. As part of this project, MSK designed a new pedestrian refuge at a high-crash road crossing used by the Bennington College community.

■ *Project team members: Dolmetsch, Mulligan, Chaloux, McRae*

■ *Client Reference:*

Mark Anders, Municipal Project Manager

802-442-0713, ext. 303

manders@bcrcvt.org

Client: Town of Castleton
Project Dates: 2020–present

Permitting:
VT Stormwater 9020,
VT DEC Stream Alter

Services Provided:
• Feasibility Assessment
• Survey

Stormwater Scoping Study *Castleton, VT*

The Town of Castleton’s salt and sand storage area, municipal highway garage, and transfer station are situated on a 29-acre parcel in the Lake Champlain basin, which has been negatively affected by non-point-source pollution. To comply with regulations associated with the State of Vermont’s Total Maximum Daily Load targets for the Champlain watershed, the Town has been managing erosion on the property for several years.

Last fall, the Town of Castleton—with support from the Rutland County Regional Planning Commission and funding from the VTrans Municipal Assistance Bureau—contracted with MSK to improve stormwater management in the salt and sand storage area. MSK is currently developing conceptual alternatives that seek to mitigate chloride contamination, locate a new sand shed to house the existing exposed sand pile, and bring the whole site into compliance with the state’s Three-Acre Stormwater General Permit and Municipal Roads General Permit. We are partnering with the University of Vermont’s Consulting Archaeology Program to conduct the required archaeological and historical resource assessments and Fitzgerald Environmental Associates on hydraulic and hydrologic assessments and stormwater treatment design.

■ *Project team members: Dolmetsch, Rodriguez, Chaloux, McRae*

■ *Client Reference:*
Devon Neary, Municipal Project Manager
802-775-0871
devon@rutlandprc.org

Client: Town of Whitingham
Project Dates: 2020–present

Services Provided:
• Feasibility Assessment
• Survey

Roadway Realignment Scoping Study (VTrans Municipal Assistance Bureau) *Whitingham, VT*

The East Branch of the North River passes through Jacksonville, Vermont, the central village in Whitingham. The village contains a mix of residences, businesses, and municipal buildings, including the town offices, library, and fire house. During major storm events, the river floods the village. The most serious flood in recent years occurred during Tropical Storm Irene, in 2011, when flood levels, as estimated through USGS StreamStats from nearby USGS stream gauges, reached the 200-year level. Less catastrophic but severe flooding remains an ongoing problem in this area, causing both inundation and erosion. In partnership with Fitzgerald Environmental Associates, MSK is conducting a scoping study to investigate ways to protect the village from severe flooding through improvements to the river channel, floodplain, and surrounding infrastructure. This work is likely to require road realignment, in compliance with VTrans Municipal Assistance Bureau requirements, in order to accommodate the removal of a bridge, widen and stabilize the channel, and expand the floodplain.

■ *Project team members: Dolmetsch, Rodriguez, McRae, Mulligan*

■ *Client Reference:*
John Bennett, Municipal Project Manager
802-257-4547
johnbenn@whitinghamregional.org

Client: Bennington County Regional Commission

Project Dates: 2011–present

Permitting:

- USACE VT General Permit
- VT Individual Wetlands Permit
- NEPA Categorical Exclusion

Services Provided:

- Engineering
- Survey
- Permitting
- Bidding
- Construction Administration

Mixed-Use Path (VTrans Municipal Assistance Bureau)

Applebrook & Willowbrook Housing, Bennington, VT

Residents of Willowbrook, an affordable housing development in Bennington, lack safe pedestrian access to the adjacent Applegate development, the nearby elementary school, and the town's major commercial corridor. Residents had been creating ad hoc paths through a wetland to gain access to these neighboring resource without walking on the dangerous road shoulder.

In 2014, MSK worked with the Bennington County Regional Commission on a VTrans Municipal Assistance Bureau scoping study to explore the feasibility of improving pedestrian pathways for Willowbrook residents. Design took place in 2017. During design development, MSK coordinated with USACE and the VT Agency of Natural Resources to avoid or limit the location of the path in the jurisdictional area to avoid the need for a full NEPA review. We coordinated with landowners to obtain documentation and signatures to create a right-of-way and worked with VTrans to approve the right-of-way. The finalized path alignment and construction meet U.S. DOJ 2010 ADA standards for accessible design and U.S. DOT's proposed guidelines for public rights-of-way.

MSK produced construction documents and provided bidding services early this year. The project is expected to be completed by summer 2021.

■ *Project team members: Dolmetsch, Mulligan, Chaloux*

■ *Client Reference:*

*Mark Anders, Municipal Project Manager
802-442-0713, ext. 303
manders@bcrct.org*