

# Appendix D – Technical Ability

Oak Point Associates has been involved in many State of Maine design and construction projects over the past several years, including:

- New Academic Building, York County Community College (Wells, Maine)
- Armed Forces Reserve Center, Maine Army National Guard (Brunswick, Maine)
- Ready Bay Addition, Maine Army National Guard (Waterville, Maine)
- Building 9 Addition and Alteration, Maine Air National Guard (South Portland, Maine)
- Construct Cottages, Department of the Navy (Great Pond, Maine)
- Repair Range, Bangor Training Site, Maine Army National Guard (Bangor, Maine)
- Repair Range, Gardiner Training Site, Maine Army National Guard (Gardiner, Maine)
- Hall-Dale Elementary School (Hallowell, Maine)
- Lincolnville Central School (Lincolnville, Maine)
- General Permitting, Funtown/Splashtown USA (Saco, Maine)
- Falmouth Elementary School/Athletic Field Complex/Woodchip Boiler Plant (Falmouth, Maine)
- Mount View School (Thorndike, Maine)

In addition, Oak Point Associates provided Municipal and MDEP permitting for the following projects:

- New Academic Building, York County Community College (Wells, Maine)
- Update existing Site Location of Development Permit, Maine Air National Guard (Bangor, Maine)
- Running Track, Maine Air National Guard (Bangor, Maine)
- Add to and Alter Fire, Crash and Rescue Station, Maine Air National Guard (Bangor, Maine)
- New Maintenance Hangar and Renovation of Building 493, Maine Air National Guard (Bangor, Maine)
- Armed Forces Reserve Center, Maine Army National Guard (Brunswick, Maine)
- Hall-Dale Elementary School (Hallowell, Maine)
- Lincolnville Central School (Lincolnville, Maine)
- Mitchell School (Waterville, Maine)
- Innovation Center, University of Maine (Orono, Maine)
- Gosnell Residence (Kennebunkport, Maine)
- General Permitting, Funtown/Splashtown USA (Saco, Maine)
- Mount View School (Thorndike, Maine)
- Falmouth Elementary School/Athletic Field Complex/Woodchip Boiler Plant (Falmouth, Maine)

Following are qualifications for Oak Point Associates' staff and other consultants involved with this project.

# Jonah DeWaters, PE

## Civil Engineer, LEED AP BD+C

*Jonah DeWaters is a civil engineer with 11 years of experience in the engineering field in areas such as preliminary site inspection, surveying, conceptual design, site and drainage design, permitting, construction document preparation, construction cost estimation, construction administration and construction observation.*

### REGISTRATION & CERTIFICATION

- Professional Engineer: Maine
- LEED BD+C Accredited Professional

### EDUCATION

- Bachelor of Science, Civil Engineering, University of New Hampshire

### PROFESSIONAL ORGANIZATIONS

- Member, American Society of Civil Engineers (ASCE)

### EXPERIENCE

**New Academic Building, York County Community College, Wells, ME** – Civil Engineer/Site Designer for a project consisting of a new academic building, parking lots, and associated site and stormwater infrastructure at the existing York County Community College campus in Wells. In addition to creating the construction documents and providing substantial construction administration assistance, the project also involved substantial environmental and municipal permitting, including interfacing with abutting landowners and construction within the public right-of-way and improvements to emergency vehicle access to the site.

**Buildings for our Future, Portland Public Schools, Portland, ME** – Civil Engineer/Site Designer for the development of conceptual designs and cost estimates for a multiphase project that involved performing significant renovations to Reiche Community School, Longfellow Elementary School, Presumpscot Elementary School and Harrison Lyseth Elementary School as well as the construction of a new Fred P. Hall School. The project aimed to increase equity at the schools, and the site portion focused on improving site circulation and parking, providing adequate outdoor play/learning spaces, and improving accessibility. Public outreach was a vital part of this project, and design charrettes were held as part of the information gathering phase of project at each of the schools with parents/members of the public and stakeholders (staff members, other users of the buildings, and maintenance personnel). Comments and concerns brought up at these meetings were incorporated into the development of the conceptual designs. These meetings were repeated at the end of the project so they would also have a chance to review the final designs.

**Environmental Permitting, Maine Air National Guard, Bangor, ME** - Civil Engineer/designer for multiphase permitting project that involved conducting a base-wide survey of all construction activities between 2004 and 2013 to update the base's existing Site Location of Development Application. This resulted in the preparation of four separate amendments to the existing Site Location of Development permit Air National Guard base in Bangor, including permitting for a new aircraft hangar facility, fire station, running track and training area. Permitting involved using innovative strategies to integrate stormwater treatment systems into existing areas to meet State requirements with minimal disturbance to the surrounding area, as three of the four permits were for facilities that had already been constructed or were currently under construction.

**Armed Forces Readiness Center, Maine Army National Guard, Brunswick, ME** - Civil Engineer/design assistant for project that involved the design and construction of a new sustainable 60,000 square foot training facility for multiple National Guard Units and associated training areas. The design included the integration of the building and site features into a site that bordered an existing Marine Corps Reserve Center building and had numerous environmental and physical constraints,

including a nearby significant vernal pool, high groundwater table, perched wetlands uphill of the site, and high bedrock elevations.

**Road and Intersection Improvements, Naval Station Newport**, Newport, RI - Civil Engineer/design assistant for project that involved the reconstruction and upgrade of a main entrance to the base in an environmental sensitive industrial area. The project required both re-designing the intersection to provide more efficient traffic flow as well as conducting drainage studies to alleviate existing drainage problems and the area as well as stormwater treatment and drainage design in accordance with Low-Impact Development standards and State regulations.

**Falmouth Public Schools Sidewalk Construction and Intersection Improvements**, Falmouth, ME – Civil Engineer/design assistant for a project that involved construction of approximately 3,250 linear feet of sidewalk along a heavily trafficked road in Falmouth to provide access from the neighboring houses to the school campus and intersection improvements at a nearby intersection. The design included significant improvements to the existing drainage along the road including the addition of catch basins and curb inlets to replace an existing open drainage system. The project required a Natural Resources Protection Act permit to address wetland impacts, a Site Location of Development Permit Amendment, including the creation of stormwater treatment systems to meet State requirements for stormwater as well as significant coordination and design review with utility companies, the U.S. Postal Service, by the town’s Planning and Public Works Departments, Maine DEP, and the School Department.

**Falmouth Elementary School and Athletic Fields**, Falmouth, ME – Civil Engineer/Design Assistant for multi-year, multi-phase project including the complete redevelopment of an existing school campus and the construction of a 139,000 sf elementary school, including parking, circulation, community connectivity, athletic fields, and a wood-chip boiler plant. Site development constraints necessitated the use of innovative use of stormwater treatment methods to meet State requirements for stormwater runoff. Services included site selection and design, environmental permitting, creation of bidding documents, and construction administration.

**Administration Facility, Moosehorn National Wildlife Refuge**, Baring, ME – Civil Engineer/Design Assistant for construction of a new administration facility and associated structures, including parking, emergency generator enclosures, storm drainage, traffic circulation improvements, and utility layout including on-site wastewater disposal.

**Bishop's Rock Landscaping Improvements, Naval Station Newport**, Newport, RI – Civil Engineer/Design Assistant for Pavilion construction, shoreline protection, utility and drainage improvements and landscaping. Project included removal of existing riprap on 1,000 linear feet of exposed shoreline and replacement with 2- to 4-ton quarry stone for shoreline protection. Project design required careful management of existing soils due to presence of naturally occurring arsenic.

**Visitor Facility Renovation, Access Road and Site Improvements, Great Swamp National Wildlife Refuge**, Harding Township, New Jersey – Civil Engineer/Design

Assistant: Complete site design and permitting for a phased project involving the conversion of a historic farmhouse and grounds to a visitor facility. Civil/site work included a new on-site water source and supply system, upgrades to the on-site septic system, hard surfaced and reinforced turf parking areas, and a quarter mile access road with innovative stormwater treatment methods.

**Water Park Expansion, Funtown/Splashtown USA, Saco, ME – Civil Engineer/Design Assistant:** Extensive storm drainage system design and analysis necessary to obtain state environmental permitting for a water park expansion that included two new water slides and additional seating/lounging areas. Project included careful selection and design of stormwater treatment in order to maximize usable space within the project boundary.

**Parking Lot Expansion and Arcade Construction, Funtown/Splashtown USA, Saco, ME – Civil Engineer/Design Assistant:** Site design and environmental permitting for the expansion/redevelopment of an existing parking lot and the construction of a new arcade building. Project included careful selection and design of stormwater treatment in order to maximize space for parking within the project boundary.

**Mount View School, Thorndike, ME – Civil Engineer/Design Assistant:** Extensive storm drainage design and analysis required for a state site location of development permit for a 180,000 sf Pre-K–12 school on a 70-acre site. Key site elements include track, soccer, baseball and softball fields, 400 parking spaces, and drop-off areas for 20 school buses.

**Building Renovations, Torrey Hall and Science Building, University of Maine at Machias, Machias, ME – Civil Engineer/Design Assistant:** Drainage system repairs and modifications as well as accessible entrance designs implemented as part of a substantial renovation for two buildings on the University campus.

**Graduate Center Renovations, Stodder Hall, University of Maine, Orono, ME – Civil Engineer/Design Assistant:** Site design including accessible entrances and parking areas as well as storm water treatment areas implemented as part of extensive renovations to the Stodder Hall graduate center.

**Wastewater Treatment Design, Green Lake National Fish Hatchery, Ellsworth, ME – Design Assistant** for design of a 3,300 square foot, 10,000 GPM treatment building with associated vehicular drives, underground utilities, process piping, flow diversion structures, solids storage tank, and redevelopment of existing sedimentation ponds. Design required maintaining gravity flow through the system, collection of wastewater flow from various locations, and innovative phasing to maintain flow during construction.

*Robert Tillotson, Founder and President of Oak Point Associates, maintains a distinguished résumé of successful projects and satisfied clients. As both a Maine Licensed Architect and an Engineer, he has led the firm on multi-disciplined projects for federal agencies such as the U.S. General Services Administration, U.S. Navy, U.S. Coast Guard Academy, and U.S. Department of the Interior- Fish & Wildlife Service, as well as universities and schools, state agencies, municipalities, and the private sector.*

### REGISTRATION & CERTIFICATION

- Registered Architect: Maine, Vermont
- Professional Engineer: Maine, New Hampshire
- LEED Accredited Professional, USGBC

### EDUCATION

- Bachelor of Science, Civil Engineering, University of New Hampshire
- Post Graduate Studies: University of New Hampshire; Southern NH University
- Harvard Graduate School of Education: Learning Environments for Tomorrow: Next Practices for Architects and Educators
- “Sustainable Architecture” Studies: Neocon—Chicago, Toronto, Baltimore; AIA National Convention—San Diego, Boston, San Francisco; “Green Build”—Portland, Oregon; Denver, Boston, Chicago
- Harvard University Graduate School of Design: Office Design, Public School Planning & Design, Dormitory Design, Theater Design
- International Architecture Studies: Architects Abroad - Italy, France, Spain

### PROFESSIONAL ORGANIZATIONS

- AIA Committee on Architecture for Education
- American Institute of Architects
- Industry Advisory Board for College of Engineering and Physical Science at the University of New Hampshire

### AWARDS

*2010 AIA Committee on Architecture for Education Citation*

University of Maine Foster Center for Student Innovation, Orono, Maine

-1 of only 10 projects to receive nationally

### EXPERIENCE

**Camden-Rockport Middle School**, Camden, ME – Principal-in-charge and Architect for development of a facility study and campus master plan for Camden-Rockport Middle School (CRMS), with the goal of identifying the suitability of the CRMS site as an ongoing middle school campus. The project involved three major components: a facility assessment, a program analysis, and the development of building and site concepts (including phasing strategies and estimates of probable construction cost) for the school.

**Falmouth Elementary School**, Falmouth, ME – Principal-in-charge and Architect of a new, 140,000 sf, \$46,250,000 Pre-K to 5 elementary school. The new facility has two gymnasiums, kitchen facilities, music rooms, and features roof gardens and on-site renewable energy sources. Led Oak Point Associates’ integrated design efforts.

**Buildings For Our Future, Portland Public Schools**, Portland, ME - Principal-in-charge and Architect for planning, schematic design, estimating and scheduling of renovations, additions and new construction at five elementary schools.

**Jefferson Village School**, Jefferson, ME – Principal-in-charge and Architect for a new 58,000 sf, Pre-K–8 school facility. The building features a new gymnasium, cafeteria, commercial kitchen, science facilities, and educational spaces. A biomass boiler and solar hot water system provide heat for the facility and supplement water demand.

**Chelsea Elementary School**, Chelsea, ME – Principal-in-charge and Architect for new 60,000 sf Pre-K to 8 school. Construction was completed in 2011. This project is registered with USGBC and LEED Silver certification is anticipated.

**Ellsworth Elementary/Middle School**, Ellsworth, ME – Principal-in-charge and Architect. Ellsworth’s two elementary schools were consolidated into one school addition to the renovated middle school. The 47,000 square foot renovation and 100,000 square foot addition provide renovated classrooms and science labs for the middle school students and new classrooms for the elementary students.

**Vinalhaven School**, Vinalhaven, ME – Principal-in-charge and senior designer of a 57,000 sf K-12 school, located on an island 15 miles off the coast of Maine. Led Oak Point Associates’ integrated design efforts.

**Hall-Dale Elementary School**, Hallowell, ME – Principal-in-charge and Architect for a 57,000 sf elementary (K-5) school.

**Mt. View School**, Thorndike, ME – Principal-in-charge and Architect for a new 180,000 sf, \$40.2 million, Pre-K to 12 school for the eleven-town SAD #3.



**AWARDS** (Continued)

*AIA Maine Design Awards 2010: Merit Award*

University of Maine Foster Center for Student Innovation, Orono, Maine

*AIA New Hampshire IDID 2008 Excellence in Sustainable Design and Development Awards: Merit Award*

University of Maine Foster Center for Student Innovation, Orono, Maine

*2008 Education Design Showcase: Grand Prize Winner/College and University*  
University of Maine Foster Center for Student Innovation, Orono, Maine

*2008 Learning By Design Citation of Excellence Award: College/University "Green" School Building*

University of Maine Foster Center for Student Innovation, Orono, Maine

*American School & University Architectural Portfolio 2007: Outstanding Buildings/Elementary Schools*

Hall-Dale Elementary School, Hallowell, Maine

*American School & University Educational Interiors Showcase 2006: Common Areas/Outstanding Projects*

Lincolnville Central School, Lincolnville, Maine

*AIA Maine Design Awards 2006: Honor Award*

Design Studio, Biddeford, Maine

*Learning By Design and the National School Boards Association 2004: Citation Award Interior Design*

Vinalhaven School, Vinalhaven, Maine

*American School & University 2004 Architectural Portfolio: Specialized Facility/Outstanding Buildings*

Vinalhaven School, Vinalhaven, Maine

**Foster Center for Student Innovation, University of Maine, Orono, ME –**

Principal-in-charge and Architect for the design of an innovation center to provide an environment that fosters innovation and entrepreneurship leading toward the establishment of a new knowledge-based business venture. In order for the University to obtain LEED Certification of the building, the use of sustainable materials, building systems, and construction practices were maximized.

**Lincolnville Central School, Lincolnville, ME –** Principal-in-charge and Architect for

a 48,000 sf K-8 school. Program included classrooms, science lab, art and music rooms, a library, offices, administration area, gymnasium with locker rooms, a cafeteria, auditorium and commercial kitchen.

**Collins Center for the Arts, Orono, ME –** Principal-in-charge for additions and

renovations to the Collins Center for the Arts including a new entry pavilion, fly tower, lobby, ticketing, stage, and back of house systems including winching, lighting, sound, projections, and fully ADA-compliant seating and stage access.

**Regional Training Institute (RTI), New Hampshire Army National Guard,**

Pembroke, NH – Principal-in-charge for an interdisciplinary team tasked with designing a new sustainable 55,590 sf educational facility and associated 48,500 sf barracks. The site design employed low impact development principles (LID) to incorporate vehicular and pedestrian access and outdoor training requirements on a site with environmentally sensitive characteristics.

**Armed Forces Reserve Center, Maine Army National Guard, Brunswick, ME –**

Principal-in-charge for an interdisciplinary team tasked with designing a new sustainable 60,000 sf training facility for multiple National Guard Units. The design required the integration of the building and associated training areas into a site with an existing Naval facility and numerous environmental constraints.

**Waterfront Support Facility, Portsmouth Naval Shipyard, Kittery, ME –** Principal-

in-charge. The Waterfront Support Facility is a combination of submarine repair administration, logistics, worker training gathering and task allocation, and parts receipt storage and distribution. Since this new facility is intended to occupy the same location as the existing facility, phasing and the integration of multiple personnel and material movements during construction was a key to assuring that repair efficiency was not compromised.

**Security Forces Facility, Barnes Air National Guard Base, Westfield, MA –**

Principal-in-charge of a new 11,500 sf office and training facility. This two-story building includes offices, classrooms, a combat simulator, and locker rooms. The brick, glass, and metal panel facade creates a sophisticated, modern statement while complementing the existing base architecture.

**Sachuest Point National Wildlife Refuge Visitor Center, Newport, RI –** Principal-in-charge for the renovation of a 5,500 sf facility. The design solution incorporated the client's program requirements and created a dynamic new image for the facility that welcomes and encourages public visitation. Highlights of the design are expanded exhibit spaces, improved circulation, a new multipurpose room, and "green" building materials.



*Mr. Barter's responsibilities include project management for pre-design, schematic design, design development, construction documents, construction cost estimating, bidding and negotiations, construction administration, and LEED administration.*

## REGISTRATION & CERTIFICATION

- Registered Architect: Maine, New Hampshire
- LEED Accredited Professional, BD+C (Building Design and Construction)

## EDUCATION

- Bachelor of Architecture, Wentworth Institute of Technology
- Associates in Applied Science, Wentworth Institute of Technology
- Architectural Studies Abroad, France, Wentworth Institute of Technology

## PROFESSIONAL ORGANIZATIONS

- National Council of Architectural Registration Boards (NCARB)
- American Institute of Architects (AIA)
- USGBC

## EXPERIENCE

**Buildings for our Future, Portland Public Schools**, Portland, ME – Project Architect for planning, schematic design, estimating and scheduling of renovations, additions and new construction at five elementary schools.

**Camden-Rockport Middle School**, Camden, ME - Project Manager for development of a facility assessment of the existing Camden-Rockport Middle School (CRMS) and the evaluation of the CRMS site as an ongoing middle school campus. The project involved three major components: a facility assessment, a program analysis, and the development of building and site concepts (including phasing strategies and estimates of probable construction cost) for the school. Responsibilities included managing engineering disciplines while developing the facilities assessment, meeting with administration and staff to develop educational needs, development of concept plans and overall project budget. Information was also presented at numerous public forums and to various Town Leadership.

**Falmouth Elementary School, Falmouth, ME** – Job Captain and LEED Administrator for a new, 140,000 sf, \$46,250,000 Pre-K to 5 elementary school. The facility has two gymnasiums, kitchen facilities, music rooms, and features roof gardens and on-site renewable energy sources. Responsibilities included preparation of construction documents, coordination of building systems, and construction administration.

**Falmouth Public Schools Wood Chip Boiler Plant**, Falmouth, ME – Project Manager for a 3,000 sf, \$1,500,000 central heating plant. This building provides energy efficient heat for the district's existing high school and new elementary school. A 7-million BTU/hour wood-fired boiler supplies hot water for both buildings' heating systems. Responsibilities include preparation of construction documents, cost estimating, and construction administration.

**Jefferson Village School**, Jefferson, ME – Job Captain and LEED Administrator for a new 58,000 sf, Pre-K–8 school facility. The building features a new gymnasium, cafeteria, commercial kitchen, science facilities, and educational spaces. A biomass boiler and solar hot water system provide heat for the facility and supplement water demand. Responsibilities included preparation of construction documents, coordination of building systems, cost estimating, and construction administration.

**Mount View School**, Thorndike, ME – Job Captain for the new 180,000 sf, \$39,600,000 Pre-K to 12 school for the eleven-town SAD #3. The new facility has two gymnasiums, auditorium, science rooms, kitchen facilities, music and band rooms, and classroom space. Responsibilities include preparation of construction documents, coordination of building systems, and construction administration.

**Lamoine Consolidated School Renovations and Upgrades**, Lamoine, ME – Project Manager and Project Architect for ADA upgrades, roof reinforcements, front entry canopy addition and interior modifications.



**University of New England, Leonard Hall Renovation**, Biddeford, ME – Project Manager for the renovation of Leonard Hall, a single story, approximately 5,000 square foot structure that was converted from classroom space and offices into a 300-seat-capacity, state-of-the-art learning lab facility for the College of Osteopathy, which can be adapted to host a variety of different academic and social functions.

**Foster Center for Student Innovation, University of Maine**, Orono, ME – Project Manager for a new 6,000 square foot educational building which houses seminar space, a conference room and open office space.

**Armed Forces Reserve Center, Maine Army National Guard**, Brunswick, ME - Architect and project manager for construction period services for a new 60,000 sf training facility for multiple Units of the Maine Army National Guard. The three story building includes a two story lobby space, assembly hall, unit offices, unit storage spaces and two arms vaults. Responsibilities included concept planning, estimating, development of construction documents and managing the LEED certification process.

**Norris Cotton Federal Building**, Manchester, ME – Construction Cost Estimator, responsible for the preparation and coordination of the project's Estimate of Probable Costs.



# Allison Towne DiMatteo, RLA

Maine Licensed Landscape Architect, LEED AP BD+C

*Ms. DiMatteo is a Licensed Landscape Architect with experience in site inventory and analysis, conceptual design, preparation of construction and planning documents, construction observation and project management. She has been the landscape architect for school projects in numerous communities, and is particularly interested in the integrated design of outdoor play and learning environments. Ms. DiMatteo has experience in the facilitation of public meetings and design charrettes.*

## REGISTRATION & CERTIFICATION

- Registered Landscape Architect: Maine, New Hampshire
- LEED AP BD+C Accredited Professional

## EDUCATION

- Bachelor of Arts, Wellesley College
- Master of Landscape Architecture, Harvard University

## PROFESSIONAL ORGANIZATIONS

- Advisory Board Member: Architalx
- Board Member: Saco Bay Lacrosse

## AWARDS

*AIA Maine Design Awards 2010: Merit Award*  
University of Maine Foster Center for Student Innovation, Orono, Maine

*AIA New Hampshire IDID 2008 Excellence in Sustainable Design and Development Awards: Merit Award*  
University of Maine Foster Center for Student Innovation, Orono, Maine

## EXPERIENCE

**Camden-Rockport Middle School**, Camden, ME – Landscape Architect for development of a facility study and campus master plan for Camden-Rockport Middle School (CRMS), with the goal of identifying the suitability of the CRMS site as an ongoing middle school campus. The project involved three major components: a facility assessment, a program analysis, and the development of building and site concepts (including phasing strategies and estimates of probable construction cost) for the school.

**Buildings for our Future, Portland Public Schools**, Portland, ME - Landscape Architect for the Buildings for Our Future initiative, which seeks to modernize five of Portland's mainland elementary schools. Led the public outreach part of the project, including multiple staff and public forums at each school, as well as focus groups and telephone polling. Acted as moderator and project manager for the School Capacity Task Force, which considered overcrowding at the schools, and potential district boundary shifts in support of balanced capacity.

**Ellsworth Elementary School**, Ellsworth, ME – Landscape architect for a consolidated PreK-Grade 8 school which included 47,000 sf of renovation and 100,000 sf of new construction on a 34 acre existing school site. The project involved reorganizing site circulation and athletic fields to accommodate the increased staff and student population and the new building addition, as well as new parking areas, playgrounds and athletic fields. Sustainable features included a vegetated roof, porous asphalt paving, passive solar building orientation, locally sourced materials, and bioretention areas. The project included site selection, master planning, design development, construction documents and construction administration.

**Jefferson Village School**, Jefferson, ME – Landscape architect for a new Pre-K through Grade 8 school. The new school was built adjacent to the existing school on town athletic fields. Work included master planning and design of new athletic fields (soccer, baseball, softball), playground design, landscape and hardscape design.

**Chelsea School**, Chelsea, ME – Landscape architect for a new Pre-K through Grade 8 school. The new school was built adjacent to the existing school on town-owned land. Work included parking and circulation design, expansion of existing athletic fields (soccer, baseball, softball), playground design, landscape and hardscape design.

**Mount View School**, Thorndike, ME – Landscape architect for a regional, ±185,000 sf Pre-K through Grade 12 school in Central Maine. Scope of work included site selection and design of the school site, including conceptual road and parking lot design, athletic fields, playground, exterior terraces, and landscaping.



## Allison Towne DiMatteo, RLA

(Continued)

**Foster Center for Student Innovation, University of Maine**, Orono, ME – Landscape architect responsible for building placement and site design for a 5,000 sf building on a two acre site at the University of Maine. The property consists of a hillside oak grove at the campus center, and a wetland area that utilizes all flat portions of the site. Because of limited area, the building is accessed from parking on an adjacent site by way of a reclaimed wood and plastic composite boardwalk. The building was sited to take advantage of the site’s solar orientation and to minimize earthwork and clearing of trees.

**Bishop’s Rock Park, Naval Station Newport**, Newport, RI – Project manager and landscape architect for the redevelopment of an existing 5-acre parcel of land at Coddington Point, Naval Station Newport. The project involved developing construction documents and environmental permitting support, as well as construction administration, for a new park and picnic area on Narragansett Bay. The park includes a gravel access road and parking areas, a new picnic shelter, a jogging trail, new site lighting, landscaping, and picnic “pods”. The work also included a new granite revetment for the perimeter of the site, which projects out into the bay and is exposed to extreme weather.

**Oxbow National Wildlife Refuge Visitor Contact Station and Parking Area**, Harvard, MA – Landscape architect for a passive recreational site along the Nashua River, on land formerly part of the U.S. Army Fort Devens Military Installation. The project involved design of a recreation facility that included an educational building, information kiosks, toilet facilities, parking lots, an accessible river overlook, a kayak and canoe launch, a trail system, and an amphitheater. The design incorporated many sustainable features including porous concrete pavement, porous unit paving, vegetated roofs, and composting toilets. The project included concept development, construction documents, environmental permitting, and construction administration.

**Defense Highway Improvements, Naval Station Newport**, Newport, RI – Landscape architect for a project entailing aesthetic, drainage and traffic safety improvements to a 1/4-mile long stretch of Defense Highway from Gate 17 to Chandler Street. Gate 17 is the commercial gate at Naval Station Newport, and the major entrance into the Coddington Cove district. Because the base is the “front porch” of the U.S. Navy, being one of the premiere training campuses for naval officers, the image of the base on arrival at the main gates is of great importance. Site improvements include new pavement and curbing, sidewalks, a stone dust jogging path, site lighting, site furnishings, landscaping, ornamental retaining walls and railings, and storm drainage improvements that employ Low Impact Development (LID) principles. Oak Point Associates is providing concept design, illustrative rendering, design development, cost estimating, permitting and construction documentation services.

**North Dam Mill Redevelopment**, Biddeford, ME – Project manager for a project involving the redevelopment of a former textile mill in the heart of Biddeford, Maine. The site is on the Saco River, and included three connected mill buildings with a total of 370,000 square feet of mixed-use space development. The scope of work included concept design and municipal permitting for vehicular and pedestrian site circulation, accessibility and exterior gathering spaces.

# Jacques L. Gagnon, Jr., PE

## Associate Civil Engineer, LEED AP

*Mr. Gagnon is a civil engineer with over 30 years of site engineering design, permitting, and construction observation experience. Projects include institutional, educational, commercial, and recreational facilities.*

### REGISTRATION & CERTIFICATION

- Professional Engineer: Maine, Massachusetts, New Hampshire, Connecticut, Vermont, Rhode Island
- LEED Accredited Professional, USGBC

### EDUCATION

- Bachelor of Science, Civil Engineering, University of New Hampshire

### EXPERIENCE

**Falmouth Public Schools Sidewalk Construction and Intersection Improvements, Falmouth, ME** – This project consisted of constructing approximately 3,250 linear feet of sidewalk along Woodville Road and constructing a turning lane on Woodville Road at the intersection of Falmouth Road. The design included conversion of an open ditch and culvert system to a closed subsurface system with catch basins and curb inlets. Key features included in the project were drainage design, coordination with utility companies and the U.S. Postal Service, and design review by the town's Planning and Public Works Departments, Maine DEP, and the School Department. A Natural Resources Protection Act permit was obtained to address wetland area impacts.

**Falmouth Elementary School, Falmouth, ME** – Project consists of design and permitting for a 140,000 sf elementary school on the existing middle school/high school campus. Services included Renovation vs. New analysis, site search and selection, budget development, permitting, bidding documents, and construction administration.

**Mount View School, Thorndike, ME** – Site selection and site design for a 180,000 sf Pre-K–12 school on a 70 acre site. Permits obtained include local site plan review, state site location of development, engineered wastewater disposal and public water supply. Key site elements include track, soccer, baseball and softball fields, 400 parking spaces, and drop-off areas for 20 school buses. The building and site design was integral to effectively utilize a sloping site while maintaining a proper cut/fill balance.

**Landscape Site and Security Improvements, John F. Kennedy Federal Building, Boston, MA** – The project included the replacement of existing curbing, sidewalks, landscaping, and installation of security improvements for the low-rise entrance of the building. Granite-clad security walls were integrated as landscape features to provide an aesthetically pleasing solution to increase security. Vehicle barriers were also installed to control access to the site. Project Engineer/Project Manager.

**New Building for APHIS and FDA, U.S. Border Station, Highgate Springs, VT** – Civil engineer for the design of a new 6,000 square foot building located at the U.S. Border Station on Interstate 89, Highgate Springs, Vermont. The design included sewer pump station design and extension of existing water supply system.

**Alterations and Building Upgrades, Norris Cotton Federal Building, Manchester, NH** – Site work improvements included perimeter security bollards, granite entrance stairs, cast-in-place concrete planters, and granite plaza alterations to accommodate new entrance vestibule.

**Business Park Development, Route 1, Saco, ME** – Prepared conceptual layout, topographic survey, boundary survey, and design of a 15 lot commercial subdivision on 64 acres. Permit applications were completed for City of Saco Subdivision and Maine DEP Site Location of Development.

**Land Port of Entry**, Madawaska, ME – Project Engineer for feasibility study and program development study for the replacement of the existing Land Port of Entry in Madawaska with one that satisfies DHS, GSA, traffic, security and community criteria including hardened structures, blast mitigation, stand by utility services, future expansion and site and building security.

**Perimeter Security Upgrades**, Concord, NH – The project included security code review, identification of required improvements, design of vehicle barriers, security walls and bollards. Public street re-configuration to increase security was also included. Topographic survey, design, construction contract documents and shop drawing review services were provided.

**Vinalhaven School**, Vinalhaven, ME – Civil engineer for the design of a new 57,000 sf K-12 school located on Vinalhaven Island in Penobscot Bay. Scope of project was to design a facility that would house Vinalhaven Island's entire school district as well as its superintendent's office. The use of local materials and energy-efficient building systems were incorporated wherever possible in an effort to reduce costs. The community was included in every phase of the design and construction process to ensure that the facility (the largest building ever built in the area) would provide not only superior educational space, but would also be used year-round by the public.

**Hall-Dale Elementary School**, Hallowell, ME – Civil engineer for a 57,000 sf elementary school (Pre K-5). Site work included extensive earthwork and rock cuts (17,000 cubic yards of rock cut), sewer pump station design, state highway improvements, and water main.

**Fayette Central School**, Fayette, ME – Services included the programming and design of a 16,000 sf elementary school. The existing 8,000 sf school was renovated and expanded to provide additional classrooms, kitchen, gym, and parking. Site investigations consisted of topographic surveys, soils investigations and utility research. Site design included vehicle and pedestrian circulation, playground areas, electric, telephone, sewer and water system upgrades, and site grading and landscaping.

**Repairs to Wastewater Treatment Plant**, Highgate Springs, VT – A feasibility study was conducted to determine if it would be feasible to replace an aging, oversized treatment plant with an onsite septic system. The study included a solution to manage agricultural and domestic wastes separately, estimates, permitting research, and coordination with state and federal agencies.

**Feasibility Study, U.S. Border Patrol Station and U.S. Border Patrol Headquarters**, Houlton, ME – Feasibility and program development for expansion and replacement of existing Border Patrol station and sector headquarters facilities. Researched into local economic conditions, evaluated existing facilities, and assessed tenant needs and goals. A financial analysis including estimates of probable costs and various financing and delivery options was prepared. Six alternatives were evaluated and a preferred alternate selected.



*Mr. Miller has over 30 years of experience in the engineering field and is familiar with all aspects of civil design, from preliminary site inspection, survey and permitting to preparation of final documents and construction inspection.*

## REGISTRATION & CERTIFICATION

- Professional Engineer: Maine, New Hampshire, Vermont, New York, New Jersey, Rhode Island
- Professional Surveyor: Maine
- Licensed Forester: Maine

## EDUCATION

- Bachelor of Science, Forest Engineering, University of Maine

## EXPERIENCE

**Foster Center for Student Innovation, University of Maine, Orono, ME** – Civil Engineer for an innovation center that provides an environment that fosters innovation and entrepreneurship leading toward the establishment of a new knowledge-based business venture. In order for the University to obtain LEED Certification of the building, the use of sustainable materials, building systems, and construction practices were maximized.

**Defense Highway Improvements, Gate 17 and Defense Highway/Anderson Ave. Intersection Improvements, Naval Station Newport, Newport, RI** - Civil/site design and permitting for project involving reconstruction and upgrade of main truck route onto the Base and problematic, heavily trafficked intersection in the environmentally sensitive Coddington Cove industrial area. Included reconfiguring intersection to better accommodate truck movements, soils/geotechnical analysis for retaining wall, pavement and bioretention area design, and detailed drainage study to alleviate a long standing drainage problem. Required design in accordance with CRMC standards and EISA/LID policy and extensive provisions for managing existing soils due to naturally occurring arsenic on a Navy Installation Restoration site.

**Administration Building/Visitor Contact Station, Ohio River Islands National Wildlife Refuge, Williamstown, West Virginia** – Complete site design and permitting for a 6,000 square foot Refuge Visitor Center/Administrative Building, including three distinct functional areas, facilities for an estimated 50 visitors per day, separate staff and maintenance areas, and vehicular maneuvering areas to accommodate large buses. Project required identification and preparation of applications for all required permits, including well permits, underground injection control permit for geothermal injection well, on-site wastewater disposal system permit, DOT access and utility permits, and stormwater permits for both construction and post-construction stormwater management.

**Kindergarten Addition, George J. Mitchell School, Waterville, ME** – Complete site design and permitting for a 13,000 sf school addition including layout, grading, drainage, utility extensions, playground design, landscaping, and erosion control. Required permits included local planning board and Natural Resource Protection Act approvals.

**Maine Army National Guard, Ready Bay Addition – 11<sup>TH</sup> CST WMD Readiness Center, Waterville, Maine** – Civil/Site design and permitting for 5400 square foot garage addition, including expanded maneuvering area with drive through bays, reconfigured security fencing and access control, extended utilities, grading, drainage and erosion control on a steep site. Required State and local permitting and low impact development techniques to minimize disturbance to adjacent natural areas.

**Visitor Facility Renovation, Access Road and Site Improvements, Great Swamp National Wildlife Refuge, Harding Township, New Jersey (2008)** – Complete site design and permitting for a phased project involving the conversion of a historic farmhouse and grounds to a visitor facility for the popular Great Swamp NWR, situated less than an hour from metropolitan New York City. Civil/site work included a new on-site water source and supply system, upgrades to the on-site septic system, hard surfaced and reinforced turf parking areas, and a quarter mile access road with innovative stormwater treatment methods. Intensive permitting effort involved analysis of alternatives and low impact design to minimize disturbance to protected natural resources on a highly regulated site located partially within the Passiac River flood plain.

**Replace Squadron Operations Facilities, New Hampshire Air National Guard, Newington, New Hampshire** - Civil/site design and permitting for a 28,000 square foot building and site improvements on a previously developed, uncontrolled fill, airport site. Project involved unique siting requirements due to existing airfield operations, extensive earthwork to improve foundation soils, and effective / aesthetic stormwater design for quantity, quality and volume control in accordance with State requirements. Included accelerated design and permitting schedule and incorporation of bid options to ensure a viable project would be funded.

**Construct Cottages at Great Pond Outdoor Adventure Center, Hancock County, Maine** - Civil/site design and permitting for expansion to popular recreational area involving 7 new cottages with associated site improvements, roadway and utility construction, and on-site septic and public water supply wells. Included detailed survey, geotechnical analysis, and design to optimize cottage siting in accordance with State requirements and in an effort to minimize impacts to the environmentally sensitive area near the shore of Great Pond, including avoiding impacts to significant trees, huge boulders, and water resources.

**Penquis Training and Education Center, Eastern Maine Technical College, Dover-Foxcroft, ME** – Conversion of an existing elementary school to an adult education center, with associated site upgrade and parking lot expansion. Project required maximum utilization of the existing site with a design to satisfy nearby neighbors and the local Planning Board. Included an efficient parking layout with a reduction in pavement adjacent to the building and full use of on-site materials to reduce costs. Estimated site construction cost: \$100,000

**Lincolnton Central School, Lincolnton, ME** – Site analysis, design, permitting and development of construction documents and costs for a new K-8 school involving reconstruction on an existing congested site. Project involved analysis of various sites to determine feasibility and costs of proposed construction, wetland delineation and geotechnical analysis, and site layout to preserve significant existing trees and other vegetation. Site design and permitting included on-site water supply and wastewater disposal, erosion control and stormwater management. Stormwater best management practices were employed to remove 80-percent total suspended solids in an effort to protect Norton Pond, a waterbody most at risk from new development.



## DIANE WIGMORE MORABITO, P.E. PTOE

### EDUCATION

B.S. in Civil Engineering  
University of Massachusetts, Amherst 1980

M.S. in Civil Engineering  
University of Massachusetts, Amherst 1983

Federal Highway Administration Short  
Courses in Transportation Engineering  
1981 – 2006

### AFFILIATIONS

Current Director of the Transportation  
Professional Certification Board Inc.

Institute of Transportation Engineers  
Past President of New England Section  
Past President of Maine Chapter  
New England Distinguished Service Award 2004

Tau Beta Pi, National Engineering Honor  
Society

### EXPERIENCE

**Maine Traffic Resources – Gardiner, Maine**

**2006 to present**

As President, Ms. Morabito is responsible for the technical and administrative management of the firm's transportation planning projects, including traffic, design and parking studies. At Maine Traffic Resources she has completed such studies as:

- Traffic signal design for new installations in Portland, Augusta, Oxford and Falmouth and for modifications in Falmouth, Augusta and Gorham.
- Traffic permitting for projects including:
  - Hannaford Stores at Cony Circle in Augusta and on Route 26 in Gray
  - The Hathaway Creative Center in Waterville
  - Wing Farm Business Park in Bath/West Bath
  - Oxford Casino
  - New Goodwill stores in Windham, Ellsworth, Rockland & Augusta
  - New schools in Brewer, Farmington, Falmouth and Ellsworth
  - Saco Island Redevelopment
  - St. Joseph's College in Standish
  - Poland Spring Plants and Spring Sources
- School modifications/expansions for several schools including those in Jefferson, Chelsea, Waterville, Berwick and Rockport.
- Temporary Traffic Control Plans for numerous intersections for gas pipeline installations in Central Maine, for utility work in Augusta and Newcastle, and bridge work in Acadia National Park.
- The Portland Road Traffic Management Update Study for Kennebunk.



- Traffic engineering services to Wright-Pierce Engineers for sidewalk/bikeway projects in Kittery, Damariscotta, Dixfield, Bath and Standish.
- Master planning services for Saint Joseph's College campus in Standish, New Hampshire Army National Guard Military Reservation Master Plan, Falmouth school campus and Oceanview Development in Falmouth.
- Traffic review services for several municipalities including Kennebunk, Gorham, Belfast, Saco and Rockland.

**Casey & Godfrey Engineers, Gardiner, Maine**    *Founding Partner*    **1986 - 2006**

**Maine Department of Transportation, Augusta**    *Acting Division Head*    **1981 - 1986**

**REGISTRATION**

Professional Engineer Maine # 5077, New Hampshire # 9585, Professional Traffic Operations Engineer # 571

# **Owen Haskell, Inc.**

*OWEN HASKELL, INC.*, founded in 1964, is a privately owned Maine corporation specializing in all types of land surveying and is one of New England's largest full-service surveying companies. Over the years, we acquired the personnel and records of three land surveying firms. The largest firm acquired was H.I. & E.C. Jordan, Surveyors, a Portland, Maine based firm, which had been providing survey services to clients throughout Northern New England since 1873.

With more than 100 years of experience, we are able to provide quality surveying services for all types of engineering and design projects. This includes highways, bridges, airports, pipelines, transmission lines, paper mills, industrial and commercial developments, and a full spectrum of services to waterfront developments, pier facilities and related rehabilitation projects, as well as photo and geodetic control. We can provide a full range of surveying services, including boundary, land title, topographic, hydrographic, and geodetic control, as well as in-house GPS (Global Positioning System) services.

We provide a wide variety of surveying and support services to the engineering and environmental communities.

We currently have three survey crews on staff and each crew has been properly equipped, including being able to provide backup for equipment failures. Our in-house Leica GPS equipment includes both 1200 receivers for control surveys and Pathfinder PRO XR receivers for data collection and sub-meter location and mapping.

Our AutoCAD and Carlson Survey software enable us to provide detailed site condition plans to our clients on electronic medium. Computer systems are continually updated and refined in order to meet our clients' needs in the most efficient manner and to support all aspects of the engineering field.

With financial support and encouragement, our employees are urged to take every opportunity available to learn the latest technology by attending seminars and classes. Owen Haskell, Inc. firmly believes that in today's environment, employees need every advantage possible in order to make a company successful.

## **Our Mission:**

Owen Haskell, Inc. has been in the surveying business for over 40 years and has built a reputation on providing a quality product at a fair price, and is dedicated to fulfilling the objectives of a wide range of projects. We take pride in our ability to respond quickly and effectively to our client's needs, and have a proven reputation for providing quality, client-oriented services.

# **Owen Haskell, Inc.**

Professional Land Surveyors

---

## **John C. Schwanda, PLS**

Principal

### **EDUCATION**

Bachelor of Science/Forestry  
University of Maine

### **ACTIVE REGISTRATIONS**

Professional Land Surveyor	Maine #1252
Professional Land Surveyor	New Hampshire #826
Professional Land Surveyor	Massachusetts #31322
Professional Land Surveyor	Connecticut #70004
Professional Forester	Maine #881

### **PROFESSIONAL EXPERIENCE**

Owen Haskell, Inc - 1985 to Present  
Principal

Mr. Schwanda has over 35 years of experience in this field. He serves as project manager and performs and supervises all phases of boundary, topographic, engineering and construction surveys.

### **PROFESSIONAL MEMBERSHIP**

Maine Society of Land Surveyors (MSLS)  
National Society of Professional Surveyors (NSPS)

# Project Experience

---

John C. Schwanda, PLS

CSO Project  
Portland, ME

Engineering Survey- Dorothy, DiBiase and Hicks Street  
Woodard & Curran, Inc. Barry Sheff 207-774-2112

Review right of way information, supervise field survey, performed computations to make determination of right of way lines, supervise plan preparation.

Hall School  
Portland, ME

Boundary and Topographic Survey for School Redesign  
Oak Point Associates, Jacques Gagnon 207-283-0193

Surveyor of record. Performed record research, field reconnaissance of boundary and control points, supervised field work, computations to make boundary line determinations, supervision of plan preparation.

Mercy Hospital  
Portland, ME

ALTA/ACSM Land Title Survey  
Preti Flaherty Beliveau & Pachios, LLP, 207-791-3000

Surveyor of record for boundary surveys at sites on Spring and Winter Streets in Portland and Park Road, Westbrook.

Portland Public Library  
Portland, ME

Existing Conditions/Boundary Survey  
Scott Simons Architects, Stephen Fraser 207-772-4656

Surveyor of record. Deed and plan research, computations to make boundary line determination, supervision of plan preparation.

Seaside Rehabilitation & Healthcare Center  
Portland, ME

Boundary, Topographic and As-Built Surveys  
First Atlantic Healthcare, Craig Coffin 207-874-2700

Surveyor of record. Deed and plan research, computations to make boundary line determination, supervision of plan preparation.

Long Creek Watershed Project  
South Portland, ME

Engineering and Topographic Survey for storm drain and culvert improvements - Philbrick Road - South Portland, ME  
Gorrill-Palmer, Al Palmer 207-657-6910

# **Owen Haskell, Inc.**

---

Professional Land Surveyors

## **Ellen C. Brewer, PLS**

Project Manager

### **EDUCATION**

B.S. Natural Resources/Soil & Water Conservation  
University of Maine, Orono

A.S. Civil Engineering Technology  
Vermont Technical College

### **ACTIVE REGISTRATIONS**

Professional Land Surveyor Maine #2367

### **PROFESSIONAL EXPERIENCE**

Owen Haskell, Inc - 1995 to Present  
Director of Field Operations

Mrs. Brewer has over 25 years of experience in the surveying field. Her duties and responsibilities include scheduling and assisting field crews with computations and problem solving; researching and obtaining information from utility companies and municipalities and interfacing with field crews, clients and management to assure surveys are completed in a timely manner.

### **PROFESSIONAL MEMBERSHIP**

Maine Society of Land Surveyors (MSLS)  
National Society of Professional Surveyors (NSPS)

# Project Experience

---

Ellen C. Brewer, PLS

Hall School- Portland, ME Boundary and Topographic Survey for School Redesign  
Oak Point Associates, Jacques Gagnon 207-283-0193

Responsible for coordinating surveying needs between client, school and other environmental professionals. Coordinate access to the project site. Manage survey crews. Deed and plan research at the City and County. Assist in boundary computations.

Midtown- Portland, ME Boundary & Topographic Survey for 8 Lot Amended  
Subdivision Fay, Spoffard & Thorndike, William Hoffman 207-775-1121

Manage survey crews. Research with the City. Compilation of plans, lot and easement calculations as well as composing of legal descriptions.

Long Creek Watershed Topographic and Property Survey for storm drain  
Project improvements - Maine Mall Plaza - Maine Mall Road  
South Portland, ME South Portland, ME  
Fay, Spoffard & Thorndike, Joe Laverriere 207-775-1221

Mercy Hospital ALTA/ACSM Land Title Survey  
Fore River Campus Preti Flaherty Beliveau & Pachios, LLP, 207-791-3000  
Portland, ME

Manage survey crews. Interface with client, attorneys and Title Company. Deed and plan research at the City and County. Boundary and easement computations, plotting and interpretation of Title documents.

CSO Project Engineering survey Commonwealth, West Commonwealth  
Portland, ME and Belfort Streets  
Woodard & Curran, Inc. Barry Sheff 207-774-2112

Manage survey crews and field data. Deed and plan research with the City and utility companies. Research horizontal and vertical control of record.

CSO Project Engineering survey College Street  
Portland, ME Woodard & Curran, Barry Sheff 1-800-426-4262

Manage survey crews and field data. Research horizontal and vertical control. Deed and plan research with the City and utility companies. Right of way computations.

**STATEWIDE SURVEYS INC**  
**SOIL SCIENTISTS & LAND SURVEYORS**  
35 Eastman Road Cape Elizabeth, ME 04107  
E-mail:statewidesurveys@maine.rr.com  
Phone/Fax: 207 767 4200

**DALE A. BREWER**

*President*

**EDUCATION**

1987 B.S. Natural Resources  
1984 A.S. Plant & Soil Tech

**REGISTRATIONS/AFFILIATIONS**

Certified Soil Scientist (CSS #304)  
Professional Land Surveyor (PLS #2348)  
USACE Wetland Delineator  
Maine Assoc of Professional Soil Scientists-MAPSS  
Maine Assoc of Wetland Scientists-MAWS  
Maine Society of Land Surveyors-MSLS

**WETLANDS**

Mr. Brewer has over twenty five (25) years of experience with wetland projects. He completed the USACE Wetland Delineator course in 1994. He has extensive experiences working with wetland delineations, classifications, function & value assessments, mitigation and monitoring of estuarine and palustrine wetland projects from Maine to New Jersey. Dale has worked on hundreds of projects ranging from small residential lots to large projects with thousands of acres and miles of roads for wind power generation, natural gas conveyance and electrical power transmission corridors. He has also prepared environmental permits at the local, state and federal levels for projects with jurisdictional impacts.

**SOILS**

Mr. Brewer was certified as a Maine Certified Soil Scientist (CSS) in 1992. He has completed high-intensity soil mapping for small residential subdivisions to large scale soil mapping in the North Maine Woods for Forest/Paper Companies. He has also completed soil surveys for long linear wind power and transmission line construction projects in addition to subdivisions under the jurisdiction of the Site Location of Development Act. Dale was employed by the U.S.D.A. Soil Conservation Service (*now the NRCS*) working with agricultural cooperators reducing soil erosion, drainage structures, soils mapping and soil fertility while in college. He has been working with soils since youth having grown up on a large certified seed potato farm.

## LAND SURVEYING

Mr. Brewer is also a licensed Professional Land Surveyor (*PLS*) in the State of Maine. He has been conventional land surveying since the early 1980's. Mr. Brewer has also been using *GPS* technology since the 1990's on projects from Maine to New Jersey. He is experienced with both survey grade (*centimeter*) and mapping (*sub-meter*) grade *GPS* technology. He has completed many Survey grade *GPS* surveys using both Static and/or Real-Time Kinematic (*RTK*) techniques in New England. Dale has used the entire line of Trimble Pathfinder *GPS* units since their inception in the early 1990's. He also routinely uses conventional equipment for land surveying projects. Dale has worked on hundreds of surveying projects ranging from residential lots, forestlands, landfills, Super-Fund hazardous materials (*Haz-Mat*) sites, route surveys, construction and hydrographic surveys.

## OTHER

Mr. Brewer was certified as an O.S.H.A. Certified Hazardous Waste worker in 1991. Dale has completed environmental work at small sites to major land fills and Super-Fund Hazardous Materials sites in the northeast. He has completed wetland delineations, soil testing, water monitoring and land surveying at these sites.

Dale also completed training in Storm-water Practices Design in 1998 from the Maine Nonpoint Source Training & Resource Center.

## PREVIOUS EMPLOYMENT/EXPERIENCE

2004-Present

### STATEWIDE SURVEYS, INC *Cape Elizabeth, ME*

**President** - Responsible for daily business tasks in addition to fieldwork and project management. Specific focus on wetlands and high-intensity soil surveys on large land parcels. Typical projects include: wetland delineations/mapping, wetland functional assessments, vernal pool surveys, soil classifications, soil mapping and land surveying using both conventional and *GPS* methodologies.

2003-2004

### Sebago Technics, Inc *Westbrook, ME*

**Director of Soil Science** - Responsible: for leadership of the soil science and environmental departments, establishing new standard operating procedures for soil and wetland projects and completing fieldwork on a number of large wetland and soil surveys. Additional tasks included wetland delineations and mapping with functions & values assessments of the Fall Brook corridor for the City of Portland's flood studies.



- 2001-2003 **Framatome-ANP Portland, ME (formerly Duke Engineering, presently Devine Tarbell & Associates)**  
**Soil Scientist/Wetland Scientist** - Responsible for completing: wetland delineations, classifications, function & value assessments and mitigation monitoring studies. Other duties included: high-intensity soil mapping for electrical substations and natural gas compressor stations, utility corridors and route surveys, also assisted with *RTE* surveys and *GPS* control surveys.
- 2000-2001 **S.W. Cole Engineering, Inc Gray, ME**  
**Soil Scientist/Wetland Scientist** - Responsible for completing soil surveys ranging from remote locations in the North Maine Woods to residential and commercial properties in urban areas. Other projects included: geo-technical studies, wetland delineations, soil fertility and functional & value assessments.
- 1988-2000 **Owen Haskell, Inc Portland, ME**  
**Soil Scientist/Wetland Scientist/GPS Specialist** - Lead wetland scientist responsible for completing: soil and wetland surveys for residential and commercial subdivision projects. Additional assignments included: boundary, topographic, *GPS* photo-control, construction, engineering and hydrographic surveys using conventional survey methods or *GPS*.
- 1984-1987 **USDA Soil Conservation Service Orono, Houlton, ME**  
**Technician/Planner/Work-Study Student** - Assisted with: construction surveys, erosion calculations, control structure designs, watershed delineations and long term plans in the Houlton field office. Work-study student employed by the USDA SCS State Office in Orono, Maine assisting with data entry, laboratory research, and field studies in Penobscot County.



**Timothy J. Boyce, P.E.**  
Vice President,  
Engineering Services  
Senior Geotechnical Engineer

**Education:**

B.S., Civil Engineering, University of Washington

Graduate Courses, University of Washington

**Registrations:**

Professional Engineer,  
Maine and New Hampshire

**Certifications:**

40-Hour OSHA Hazardous  
Waste Site Worker

ICC Special Inspector, Reinforced  
Concrete, Prestressed Concrete  
and Structural Masonry

Troxler Nuclear Densometer  
Certification

**Military Experience:**

Commander, Civil Engineer Corps,  
U. S. Navy Reserve (Retired)  
Construction Management,  
Contingency Construction  
and Facilities Management,  
1995-2015

P-3 Orion Flight Crew,  
U.S. Navy and U.S. Navy  
Reserve, 1983-1995

**GRAY OFFICE**

Born and raised in Indianapolis, Indiana, Tim Boyce enlisted in the United States Navy in 1983 where he completed four years of active military service, before enrolling in the civil engineering program at the University of Washington. Tim continued his military service in the U.S. Navy Reserve while attending college, eventually accepting a commission as a U.S. Naval Officer in 1995. Clients appreciate Tim's service-oriented, solution-focused, win-win approach and ability to take on projects large and small.

Tim has over 21 years of geotechnical engineering experience in Maine, New Hampshire, Massachusetts, Oregon and Washington. He joined S. W. Cole Engineering, Inc. in April 1999, was promoted to Senior Geotechnical Engineer in 2007 and Vice President of Engineering Services in 2014. His responsibilities include business development, client cultivation, engineering management, contracting, project management, site characterization, geotechnical engineering, recruiting and development of engineers, technicians and scientists.

Tim's experience includes developing and conducting geotechnical investigations, design analyses for foundations, ground improvement, soft ground, pavement design, stability of earth slopes and retaining walls, evaluation of shoring systems for excavation support, dewatering, underground utilities, geotechnical instrumentation and geotechnical monitoring of construction activities. He has worked on numerous commercial and public infrastructure projects throughout New England and the Pacific Northwest.

Tim's service as a Civil Engineer Corps Officer with the U.S. Navy includes assignments in the Naval Construction Force and the Naval Facilities Engineering Command from 1995 to 2015. Tim was recalled to active service in support of the 2007 troop surge in Iraq and 2010 troop surge in Afghanistan serving 15 months in the Southwest Asia Combat Zone.

Tim serves on the S.W.COLE's Board of Directors and is currently President-Elect of the Maine chapter of the American Council of Engineering Companies (ACEC).



Our Clients Make Better Decisions  
**From the Ground Up.**

## Providing **Earth-Related Services** For Over 35 Years

### COMPANY OVERVIEW

S. W. Cole Engineering, Inc. (S.W.COLE) was established in 1979 in Bangor, Maine to provide geotechnical engineering, geology, environmental consulting and construction quality assurance testing services. In addition to our corporate office, our firm includes three branch offices in Maine, two in New Hampshire and two in Vermont to more effectively provide services to our clients throughout northern New England.

### ABOUT OUR FIRM

S.W.COLE provides services in the following major areas: geotechnical engineering, construction materials testing, geo-environmental services and ecological consulting. We are a team of more than 80 engineers, scientists and technicians which annually provides services on more than 1,800 projects. Our three decades of experience has allowed us to work with a wide variety of complex geologic and subsurface conditions throughout New England. We have had the opportunity to work with a varied clientele, including architectural and engineering firms, contractors, healthcare providers, educational and governmental agencies, and commercial, industrial and individual clients. Our engineers, geologists and construction materials technicians take a hands-on approach and understand the impact of subsurface conditions on construction budgets and schedules. Eight regional offices give us the ability to utilize the knowledge and experience of all our professionals with ease as well as the flexibility to schedule services in a responsive manner.

As a geotechnical engineering, geosciences consulting and construction materials testing firm, S.W.COLE serves our clients' needs with a multi-disciplined staff of professional engineers and scientists as well as laboratory and field testing services. We are known for bringing creative, practical alternatives to difficult challenges for more than 35 years, and our clients have come to rely on our professional expertise and our ability to provide service both reliably and promptly.

### EXPERIENCE WITH EDUCATION PROJECTS

S. W. Cole Engineering, Inc. has provided construction materials testing as well as geotechnical engineering, geothermal heating and cooling, special inspections and environmental services on hundreds of public and private elementary, middle and high schools in northern New England. We have also worked on college and university projects as well as preparatory academies. We are familiar with the particular challenges of working with educational facilities and with the many players involved. A partial listing of representative project experience follows this page.



Augusta, ME • Bangor, ME • Caribou, ME • Gray, ME  
Manchester, NH • Somersworth, NH • Burlington, VT • White River Junction, VT



**S.W. COLE**  
ENGINEERING, INC.

Our Clients Make Better Decisions  
**From the Ground Up.**

## Selected **Education** Project Experience

### **Geotechnical Engineering Services**

- New Elementary School and Athletic Fields, Lewiston
- Proposed New Gymnasium, Waynflete, Portland
- Weatherbee and McGraw Schools Improvements, Hampden
- New Fred P. Hall Elementary School, Portland
- Foxcroft Academy Addition, Dover-Foxcroft
- New Dining Hall, Kents Hill School, Readfield
- High School Addition, Old Town, Maine

### **Construction Materials Testing and Special Inspections Services**

- Lake Region High School and Vocational Center Additions and Renovations, Naples
- Corinth Elementary School, Corinth
- Moody School Building Addition, Hinckley
- Wentworth Intermediate School, Scarborough
- Woolwich Central School, Woolwich
- Waterville High School Renovations, Waterville
- Northern Penobscot Technical Region III School Addition, Lincoln
- Longfellow School Improvements, Brunswick

### **Multiple Services**

- Harriet Beecher Stowe Elementary School, Brunswick
- Chelsea Elementary School, Chelsea
- New High School, South Portland
- New High School and Technical Center, Sanford
- High School Additions and Renovations, Freeport
- Ocean Avenue School, Portland
- New Elementary School, Jefferson
- New Dormitory, Hyde School, Bath
- New Elementary School, Caribou
- High School Additions and Renovations, Brewer
- New Hampden Academy Building, Hampden
- Mt. Blue High School Renovations and Expansion Project, Farmington



Harriet Beecher Stowe Elementary School, Brunswick, Maine

Augusta, ME • Bangor, ME • Caribou, ME • Gray, ME  
Manchester, NH • Somersworth, NH • Burlington, VT • White River Junction, VT