

APPENDIX A
RELEVANT PROJECT EXPERIENCE



RELEVANT PROJECT EXPERIENCE TABLE

TYLI PROJECT

BELFAST HARBOR WALK

Belfast, Maine



DESCRIPTION

As a subconsultant, TYLI recently provided trail design and Local Project Administration expertise for Segments 1-4 of this shared use path. The trail is 10-12 feet in width and runs approximately 0.9 miles near the shoreline within existing parks, street rights-of-way, and other City property.

Work includes trail design, alternate loop pathway/sidewalk designs, solutions to existing drainage issues, bicycle/pedestrian considerations, safety, traffic calming, and parking. A 95-ft-long timber boardwalk ramp was designed as part of this project. Construction will be completed in October 2013.

RELEVANCE TO CAMDEN

- Trail in nearby Maine coastal community
- Linkage of key features and amenities within downtown area
- Routing of walkway through active shipyard
- 95-ft timber boardwalk ramp
- LAP project

BETH CONDON MEMORIAL PATHWAY EXTENSION FEASIBILITY STUDY

Yarmouth, Maine



This study focused on the Route 1 corridor linking the existing path near the Royal River in Yarmouth to the YMCA facility in Freeport. The study was initiated to determine the feasibility of an extension of the pathway based upon an evaluation of user-demand, safety, economics, environmental impact and aesthetics. Connections to existing trails, sidewalks, recreational spaces and other destinations were considered.

- Review existing data
- Developed potential trail alignments
- Cost estimating
- Public involvement
- Development of all retaining wall and bridge options
- Teamed with TJD&A

TYLI PROJECT

ROUTE 88 SIDEWALK

Falmouth, Maine



DESCRIPTION

TYLI provided designs for 750' of sidewalk along Route 88 in Falmouth, Maine. TYLI was responsible for preliminary design, completion of the Preliminary Design Report, presenting the project at a public meeting, final design, and development of the cost estimate, specifications and bidding documents. TYLI also provided coordination with a subconsultant completing project survey and baseplan development. Throughout the project TYLI coordinated with MaineDOT for the completion of environmental reviews and permitting, utility coordination, and the right-of-way process.

RELEVANCE TO CAMDEN

- Cost estimating
- Preliminary design
- NCS performed survey work for MaineDOT

SECOND BRIDGE REPLACEMENT

North Haven, Maine



TYLI completed bid documents for replacement of this narrow bridge. Although the bridge functions as an access roadway to four seasonal homes and a secondary route of ingress for goods and equipment brought to North Haven by the Island Transporter, its main use is the location for launching and pulling of thousands of traps by local fishermen. The selected design blends well into the island's rocky landscape and incorporates several features that are conducive to the local fishing industry.

- Marine project
- Incorporated island aesthetics
- Designed to meet regulatory requirements while upgrading infrastructure for local fishermen
- LAP project

TYLI PROJECT

DESCRIPTION

RELEVANCE TO CAMDEN

LISBON TRAILS FEASIBILITY STUDY

Lisbon, Maine



Before and after photo simulation

The goal of the Study was to investigate the feasibility of developing an integrated trail system connecting the three communities of Lisbon Falls, Lisbon Center and Lisbon.

- Review of existing data
- Base mapping
- Public involvement
- ROW opportunities and constraints
- Environmental impact assessment
- Coordination with neighboring towns
- Cost estimating
- Developing typical sections
- Identifying parking areas
- Determining drainage needs

TOPSHAM TRAILS STUDY

Topsham, Maine



The purpose of this study was to determine if an extension of the Androscoggin River Bicycle Path through Topsham was feasible, based on an evaluation of user-demand, safety, economics, environmental impact, and aesthetics. It also established alignments and provided cost estimates for future design and construction phases. TYLI was responsible for overall project management, on-road trail elements, highway crossing evaluations, drainage studies, bridge structure studies and cost estimating.

- Review existing data
- Developed potential trail alignments
- Cost estimating
- Public involvement
- Evaluation of highway crossings and bridge structures
- Teamed with TJD&A

TYLI PROJECT

**WELLS HARBOR ACCESS PLAN
Wells, Maine**



DESCRIPTION

As a subcontractor for the Wells Harbor Access Plan, TYLI is working with the Harbor Advisory Committee to provide design support to UMaine students who've been invited by the Town to design a 1,100-foot-long pedestrian bridge as their capstone project. TYLI will also provide identification of permitting needs and prepare an alternates analysis to the student's design, including preliminary design and cost estimates.

RELEVANCE TO CAMDEN

- Linkage along waterfront to key facilities and amenities
- Large spanning pedestrian bridge over river outlet

**ROUTE 9 SIDEWALK AND TRAFFIC CALMING IMPROVEMENTS
Biddeford, Maine**



UNE constructed a new ground-level gateway under Pool Street to provide a safe walkway for the University community. Sidewalks were constructed on both sides of the street from the entrance of the campus to the new complex with three well-designed crosswalks. New lights were added along the street, sidewalks, and throughout the new complex.

TYLI provided preliminary and final design services for the above-noted traffic calming enhancements on Route 9 in the vicinity of the UNE campus. The design scope involved provision of curb, sidewalks, crosswalks, gateway islands, intersection lighting, landscaping, drainage, pavement markings, signage, and traffic calming measures

- provided critical, safe connectivity from the main part of campus to new residential and athletic facilities

TJD&A PROJECT

**ANDROSCOGGIN RIVERWALK
Auburn, Maine**



DESCRIPTION

TJD&A completed working drawings and monitored construction of this .35 mile linear park along the Androscoggin River. The park includes landscaping with **native species**, retaining walls, sitting areas with artfully designed paving patterns, lighting, and pedestrian amenities.

RELEVANCE TO CAMDEN

- Linear riverwalk provides connection between urban and natural areas
- Design for long life-cycle of materials
- Extensive use of native plantings on very steep embankments

**THOMASTON GREEN
Thomaston, Maine**



The Town of Thomaston acquired the site of the former Maine State Prison and entered into a public-private partnership for its redevelopment. TJD&A has provided site analysis, community participation, and master planning, leading to an exciting and visionary design. Woven into the fabric of the village with an extended street network, uses will include a community center, village scale retail, and a residential care facility.

- Long range plan for village scale development.
- Subgrade issues integrated into design.
- Edges respond to sensitive neighborhood context.

**ROCKPORT MARINE PARK
Rockport, Maine**



A master plan for the intensively used Marine Park at Rockport Harbor included a visitor pull-off and overlook, picnic areas, accessible access to the beach area, and a new Harbor Master's building, all balanced with dock, parking and boat ramp functions.

- Many user groups in potential conflict patterns
- Important tourist destination
- Interpretive signage for historic and working waterfront
- Green space serves as gathering place for groups.

TJD&A PROJECT

DESCRIPTION

RELEVANCE TO CAMDEN

BETH CONDON MEMORIAL PATHWAY
Yarmouth, Maine



A multi-use trail paralleling Route One connects parks, schools, and shopping areas of Yarmouth Village. TJD&A assisted with the application for ISTEPA funding, participated in town-wide community fundraising efforts including a telethon, talks at service clubs, soliciting donations from local contractors, and preparing articles for news releases. Memorial Butterfly Garden to Beth Condon was dedicated in 1996.

- Connections with accessible pathway
- Support with fundraising
- Multiple public and private ‘partners’ and stakeholders



BETH CONDON MEMORIAL PATHWAY EXTENSION
Yarmouth, Maine

TJD&A began with a feasibility study to evaluate extending the existing Pathway from the Royal River in Yarmouth to the YMCA in Freeport. Following the study, we were retained to continue landscape architectural design, construction documentation, and for a 1.5 mile extension of the pathway.

- Emphasis on connectivity where pedestrians have traditionally been unsafe and unwelcome
- Phased approach expresses purpose, function and value in each segment.



Before and after photo-simulations

TJD&A PROJECT

**EASTERN TRAIL FEASIBILITY
Kittery to South Portland, Maine**

Before and after photo-simulations



DESCRIPTION

TJD&A in collaboration with the Eastern Trail Alliance, Maine Department of Transportation, and local communities determined the feasibility of converting over 40 miles of the old Eastern Railroad corridor into a multi-use pathway. The pathway stretches through 12 municipalities between Kittery and South Portland, ME.

RELEVANCE TO CAMDEN

- Treatment concepts were illustrated with typical cross-sections and photo-sims.
- Graphics (including Sketchup Model) specifically designed to support fundraising efforts.

**LINCOLNVILLE BEACH
Lincolville, Maine**



A plan to upgrade four miles of Route One while preserving the historic character of this coastal Maine community. Photosimulations were used to illustrate options for improvements.

Before and after photo simulations



- Emphasis on details for accessible and safe pedestrian connections
- Interface with multiple landowners.
- Visionary master planning for phased implementation

TJD&A PROJECT

**ROYAL RIVER CORRIDOR STUDY
Yarmouth, Maine**



DESCRIPTION

A vision plan for appropriate development, land conservation, and environmental enhancement within the 1.5 mile Royal River corridor adjacent to Yarmouth Village. The plan addresses wildlife habitat, recreational use, viewsheds, residential and commercial development, water access, land use and zoning in order to improve the corridor’s natural qualities and lessen environmental impacts on the river, while making its resources available to both Yarmouth residents and businesses.

RELEVANCE TO CAMDEN

- Close collaboration with a study committee
- Educational component
- Year-round design qualities
- Inventory and analysis led to seeing the river in 18 different segments.



**RAGGED MOUNTAIN REC. AREA
(Camden Snow Bowl)**



Camden, Maine

The ‘Camden Snow Bowl’ is a beloved asset for the Town and a family ski area with unsurpassed views of the Atlantic Ocean from the summit. It is also a financial strain on the town, with aging buildings and underdeveloped recreation assets. TJD&A assisted the Ragged Mountain Recreation Center with envisioning more sustainable year-round operations.

- Strong connections to regional trail network and land trust acreage.
- Sustainable environmental land management integrated into design.

TJD&A PROJECT

**BAYSIDE TRAIL AND PARK
Portland, Maine**



DESCRIPTION

TJD&A and EDAW (Fort Collins, CO) collaborated on the design of the Bayside Trail. The trail runs on an abandoned railroad ROW parallel to Marginal Way. The project is a public-private partnership between MaineDOT, the City of Portland, the Trust for Public Land, and Portland Trails.

RELEVANCE TO CAMDEN

- Layering of cultural programming over functional requirements over natural conditions
- Series of spaces connected by pathway.
- Low-impact stormwater design

**ROYAL RIVER PARK
Yarmouth, Maine**



Master Plan and detail design of a mile-long walkway along the Royal River, parallel to Yarmouth's Main Street. Final phase of construction included the conversion of ten acres of industrial ruins into a pastoral landscape for picnicking and informal play. A variety of innovative measures were used to reduce construction costs. The park is heavily used throughout the year by joggers, walkers, nature lovers, picnickers, and school children.

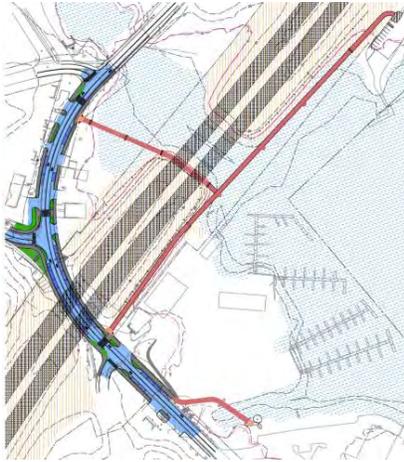
- Careful use of 'ruins' for historic interest sparks curiosity and conversation
- Management of invasive species as ongoing effort
- Use of various spaces within Park for concerts, cross-country running events, library reading trails, picnics



BAKER DESIGN CONSULTANTS (BDC) PROJECTS

RECONNECTING YARMOUTH VILLAGE TO THE WATERFRONT FEASIBILITY STUDY

Yarmouth, Maine



DESCRIPTION

Since the construction of I-295 through Yarmouth in the early 1960's, the Town's historic Lower Village area has been physically and visually cut off from its public waterfront facilities and marine oriented businesses. BDC completed a feasibility study of reconnecting the Harbor to the waterfront. The project included:

- Design of roadway & pedestrian improvements to Route 88 adjacent the harbor
- Route planning, design, and cost estimating for a shared-use pathway between the Town Landing, Town open space, commercial and residential areas within the Lower Village
- Design of bridges and elevated pathways crossing the Royal River and head of harbor
- Determination of regulatory permit requirements
- Recommendations for project phasing and funding sources
- The public process included assembling a stakeholders group, facilitating meetings with stakeholders for design input, and soliciting public feedback through a written survey and public meeting. Involved improved connectivity

RELEVANCE TO CAMDEN

- Involved improved connectivity between waterfront and downtown
- Public participation was a key component to design development
- Cooperation with TJD&A (TJD&A was on the consultant team). Project was a follow-up to the Royal River Corridor Study, a prior project led by TJD&A, which BDC was involved with.

**BAKER DESIGN CONSULTANTS
(BDC) PROJECTS**

**TOWN LANDING IMPROVEMENTS
Yarmouth, Maine**



DESCRIPTION

This planning study involves the development of a facility Masterplan, conceptual design development, cost estimates, and regulatory review for a program of improvements, including:

- Traffic circulation measures to reduce congestion and improve boat launch access
- Improved parking layout
- Connection to area bicycle & ped. trails
- Inclusion of green space and wildlife/scenic land observation points for increased recreational use

RELEVANCE TO CAMDEN

- Public Landing for a Maine coastal town
- Site layout including parking, traffic circulation, landscape
- Waterfront trail connections
- Commercial and recreational users

**TOWN LANDING IMPROVEMENTS
Yarmouth, Maine**



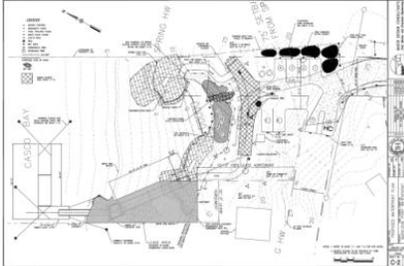
Following workshops with public and the Town Harbor committee, BDC developed plans and specifications for facility improvements that included: Extending existing boat ramp with PC slabs; adding side floats for launching and retrieval of recreational and commercial boats; reconstruction of a dedicated commercial fisherman’s pier. The project provided a safer public facility with greater capacity to serve recreational and commercial fishing interests

- Public Landing for a Maine coastal town
- Range of users with varying interests
- Public participation and Town Committee involvements

**BAKER DESIGN CONSULTANTS
(BDC) PROJECTS**

**MADELEINE POINT PUBLIC
WATERFRONT LANDING**

Yarmouth, Maine



DESCRIPTION

Working closely with the Town Harbor & Waterfront Committee, and area stakeholders, BDC prepared a Masterplan for this public waterfront property, with recommendations including:

- Improved parking layout
- New pier and seasonal floats for dinghy storage & access to adjacent mooring field
- Pick-up/drop-off areas for recreational users
- Beach access improvements
- Stormwater management and erosion control
- User amenities, signage
- Recommended site use controls

The proposed work maintains existing beach activity and reduces onsite congestion, improving the usability of this valuable Town resource.

RELEVANCE TO CAMDEN

- Public waterfront access facility for a Maine coastal Town
- Public participation and Town Committee involvement
- Consideration for a range of users with varying interests
- Parking, user access and landscape improvements

FALMOUTH TOWN PIER

Falmouth, Maine



This project included work that was undertaken in several phases creating one of the largest public access facilities in Maine:

- Launch ramp widened, lengthened, side floats added
- New 240-ft timber pier, Harbor Master building, and float system constructed, all facilities ADA compliant
- Pumpout station added

- Public Landing facility for a Maine coastal town
- Consideration for a range of users with varying interests
- ADA compliant facilities

BAKER DESIGN CONSULTANTS (BDC) PROJECTS

SOUTHERN MAINE COMMUNITY COLLEGE PIER

South Portland, Maine



WISCASSET MEMORIAL PIER

Wiscasset, Maine



DESCRIPTION

BDC provided planning, design, and grant support for a new pier to replace a historic timber structure on the SMCC campus. The new \$1.2M quasi-public pier serves a multitude of educational, institutional, and municipal users that require waterfront access to Casco Bay. The facility provides a truck rated deck, berthing for small and large vessels, and a dedicated classroom area.

The Wiscasset Memorial Pier defines the Town working waterfront. BDC performed a field inspection of the 1970's facility and evaluated options for repair and replacement. After replacement was determined to be necessary, BDC evaluated design options including: precast concrete and timber deck superstructures and substructure pile systems ranging from pressure treated pine to disease resistant composite piles and tropical hardwoods. Final design drawings and construction documents were prepared for complete pier replacement. BDC also supported the Town through the bid and construction phases of the project. The replacement pier was constructed in the fall of 2011 on schedule and on budget.

RELEVANCE TO CAMDEN

- Waterfront access facility for a Maine coastal city
- Consideration for a range of users with varying interests
- Accommodations for small and large vessels and truck access to waterfront

- Waterfront access facility for a Maine coastal town
- Consideration for a range of users with varying interests

PENOBSCOT ENVIRONMENTAL PROJECT

DUNBAR WHITEWATER TRAIL

Monroe Bridge, MA



DESCRIPTION

Trail to provide access from TransCanada's Dunbar Picnic area to whitewater viewing areas on the Deerfield River. The trail also provided safe egress for whitewater boaters who did not want to run technical rapids downstream of the picnic area. Permitting and design considerations included steep terrain, wetlands, rare plants, and rare wildlife habitat.

RELEVANCE TO CAMDEN

- Linear riverwalk
- Design to minimize Environmental impacts
- Design to provide safe travel over steep and rocky terrain

NO. 5 DAM TRAIL

Rowe, MA



Trail to provide both recreational access and access for emergency responders on a popular whitewater and hiking section of the Deerfield River. Permitting and design considerations included steep terrain, wetlands, rare plants, and rare wildlife habitat.

- Linear riverwalk
- Design to minimize environmental impacts
- Design to provide safe travel over steep and rocky terrain
- Design to provide access for emergency responders

HARRIMAN DAM TRAIL

Readsboro, VT



Trail to provide both recreational access for hiking and cross-country skiing along the Deerfield River. Permitting and design considerations included steep terrain, wetlands, rare plants, and rare wildlife habitat.

- Linear river trail
- Design to minimize environmental impacts
- Design to provide safe travel over steep and rocky terrain
- Design of timber bridge crossings of streams

PLANNING DECISIONS PROJECT**ASSESSMENT OF THE ECONOMIC IMPACT OF THE AMERICA'S CUP****Newport, Rhode Island****DESCRIPTION**

Planning Decisions undertook a comprehensive assessment to quantify the economic impact of the races on the Newport and Rhode Island economies. This included developing accurate data on spending during the weeklong event by race sponsors, race participants, and observers both at the racing venue and on boats in the bay. This involved developing an understanding of all of the types of spending that occur in conjunction with the event and then collecting appropriate information about that spending. In some cases this involved obtaining information on the cost for certain services while in others it involved interviewing participants and observers on their spending during the event. This data was then corroborated thru sales tax receipts during the event.

RELEVANCE TO CAMDEN

- Data collection to understand types of spending
- Quantifying economic impact of spending

APPENDIX B
RESUMES



Darin W. Bryant, PE
Project Manager and Lead Trail Design

Registrations:

*Professional Engineer
Maine (6853), 1990
Vermont (6102), 1991,
District of Columbia
(PE901490), 2005*

Certifications:

*MDOT Local Project
Administration
Certification, April, 2009*

Academic

Achievements:

*B.S. Civil Engineering,
University of Maine,
1986*

Professional Activities:

*Member: Chi Epsilon
National Engineering
Honor Society,
American Society of
Civil Engineers, and
Bicycle Coalition of
Maine*

Continuing Education:

*FHWA-Maine DOT-
AASHTO-CRREL
2008 National
Hydraulic Engineering
Conference: Partnering
for Progress in a
Changing Environment,
August, 2008*

*District of Columbia
Department of
Transportation, Bicycle-
Pedestrian Workshop,
February 2008*

*Department of
Environmental
Protection
Low Impact
Development Training,
April, 2005*

Mr. Bryant has been with T.Y. Lin International for over 26 years. He has been involved in both the roadway/bikepath design and traffic planning/analysis fields since joining the firm in 1986. His roles and responsibilities include project management, planning and design of roadways, major intersections, and bicycle-pedestrian trail facilities from Maine to Florida.

His experience includes a variety of projects ranging from the planning and environmental analysis phase through permitting to the final P.S. & E. stage of development.

Projects which Mr. Bryant has been directly involved with include the following:

Paper Mill Road Path Design, Lisbon, ME - Town of Lisbon

Currently serving as Project Manager for the final design, contract document preparation and engineering services during construction phases for this 0.85-mile path along the Sabattus River. Included addition of subbase and pavement, drainage and fencing. Required coordination with permitting and survey subconsultants, the Town of Lisbon, and the Maine Department of Transportation, as well as development of a public participation process.

Topsham Trails Feasibility Study, Topsham, ME - Town of Topsham

Served as Project Manager for the Study and Project Engineer for on-road segments of the proposed bikepath extension through the Town of Topsham. The Study investigated the feasibility of developing an integrated trail system connecting the existing path in Brunswick to the Topsham Fair Mall in Topsham. Responsibilities included public involvement, establishment of base mapping, analysis of alignments, development of typical sections and construction cost estimates, and completion of a Feasibility Study Report.

Route 88 Sidewalk, Falmouth, ME - Maine Department of Transportation

Serving as Project Manager for the Conceptual and Final Design of 750' of sidewalk connecting the town-owned Underwood Park to Johnson Road and the Town Landing Store. Responsibilities will include oversight of preliminary and final design, completion of a public meeting, and development of the cost estimate, specifications and bidding documents.

Redmond Road Alternative Transportation Path, Williston, VT - Vermont Agency of Transportation

Project Manager and Project Civil Engineer responsible for developing Preliminary, Final and Contract design plans. Due to expansion of the nearby IBM plant and the planned construction of the abutting Chittenden County Circumferential Highway, the Town contracted the design of this pedestrian/bicycle path. The project required the design of a ¼ mile, bi-directional, multi-use path which included development of construction plans, Right-of-Way plans, pavement marking and signing plans, and erosion control plans. Responsibilities included coordination with the Town and client, management and coordination of the consultant team, and design of the path.

Maine Department of
Transportation Local
Project Administration
Certification Course,
February 2003

Northwestern
University,
Traffic and
Transportation
Engineering Seminar,
1989

Start Date with TYLI:
May, 1986

Route One Bicycle and Pedestrian Path (Phase One), Yarmouth, ME - Town of Yarmouth

Project Manager for the final design, contract document preparation and engineering services during construction phases for this 0.5-mile path along Route One. This is the first section being constructed from the phases recommended in the Beth Condon Memorial Pathway Extension Feasibility Study previously conducted by the TYLI. Design includes subbase and pavement, drainage and fencing. Required coordination with permitting, geotechnical, landscape and survey subconsultants, the Town of Yarmouth, the Maine Department of Transportation, and utility companies and included the development of a public participation process.

Topsham-Brunswick Bypass, Topsham & Brunswick, ME - Maine Department of Transportation

Project Manager and highway engineer for this 2-mile bypass project. This project included an 1150' bridge over the Androscoggin River, and a 3 level directional interchange with two superelevated bridges on a sharply curved alignment. It also provided for safe bicycle access through the project, including the first application in the State for dedicated bikelanes with appropriate pavement markings and both ground mounted and overhead signing. Responsible for preliminary design, permitting and property owner reports during the first phase of work with final design. Also responsible for utility coordination, right-of-way plan preparation, maintenance of traffic planning, and design services during construction in later phases.

Route 7 and Pinnacle Ridge Road Rutland, VT - Vermont Agency of Transportation

Project Manager for this hazard elimination project responsible for overall project coordination, review and organization. The project involves the addition of a left-turn lane on Route 7 to mitigate a high-accident situation. An abbreviated project development process was used for this project including project design, public participation, utility coordination and cost estimates.

Route 7 Intersection Improvements, Colchester, VT - Vermont Agency of Transportation

Project Manager and lead highway engineer for the preparation of Conceptual, Preliminary and Semi-Final design plans for this ½ mile urban roadway project. Includes overlay and widening for the majority of the project, with complete pavement structure replacement in areas of vertical curve revisions to improve sight distance. Also includes the addition of a bicycle/pedestrian path, two traffic signals, turning lanes, curbing and an enclosed drainage system. Responsibilities included client interface and public coordination during the design of these three, closely spaced intersections.

Katherine E. Kern, PE
Senior Civil Engineer

Registrations:

Registered Professional Engineer in Maine (6413), 1989 and Connecticut (23998), 2004

Academic

Achievements:

B.S., Civil Engineering, University of Maine at Orono, 1980

Professional Activities:

American Society of Civil Engineers - 1992 Membership Status; Engineers Without Borders – 2007; PE Review Class Instructor, Highway Geometrics, 1994-2004;

Start Date with TYLI:

June 9, 2009

Years with Other Firms:

27

Ms. Kern has more than 30 years of civil engineering experience, including the management and design of several municipal and Maine Department of Transportation (MaineDOT) projects, as well as Brownfield site developments and remedial designs. Her relevant representative experience includes:

Belfast Harbor Walk (BHW), Belfast, ME – Locally Administered Project for City of Belfast (subconsultant to Richardson & Associates): Currently project manager for the preliminary and final design of a 0.96-mile-long shared use path which runs from Steamboat Landing to the Armistice Footbridge through City parks and follows former railroad ROW along restaurants and businesses and traverses an active shipyard. Two alternate loop paths were developed for the Work included developing conceptual designs for use at numerous public meetings, and advancing those concepts to preliminary and final design, in strict accordance with the MaineDOT LAP process. The project has been advertised, with bids due on January 28th. Construction is anticipated to be completed by October 31, 2013.

Second Bridge Repair/Replacement, North Haven, ME - Locally Administered Project for Town of North Haven: Project manager for the preliminary and final design for replacement of a 117-ft bridge at Pulpit Harbor Inlet on the island of North Haven. The final design includes Geosynthetic Reinforced Soil - Integrated Bridge System (GRS-IBS) abutments. This is the first time that GRS-IBS has been used in a marine environment according to the Federal Highway Administration (FHWA). The design was reviewed by MaineDOT and FHWA, which has in recent years championed use of GRS systems for bridge abutments. The GRS wingwall on the southwest approach was extended 40 feet in parallel to the roadway to provide a working platform to preserve traditional fishing industry uses of the Town-owned working beach located adjacent to the bridge. Construction will be completed by May 31, 2013.

Court Street Slip Lane Project, Auburn, ME – Locally Administered Project for City of Auburn (subconsultant to Woodard & Curran): Senior Project Engineer for preliminary and final design of a right-turn lane from Court Street onto Turner Street. Project includes new pedestrian ramps, refuges, and signals. Construction will be completed by Summer 2013.

Route 9 Traffic Calming Improvements, Biddeford, ME - MaineDOT: Project Manager for the preliminary and final design of sidewalks and traffic calming improvements along approximately 0.5 miles of Route 9 including sidewalks, crosswalks, pedestrian beacons, and gateway islands.

Route 8 Highway Improvements, Smithfield-Norridgewock, ME - MaineDOT: Currently project manager for the preliminary and final design of 7.83 miles of roadway along this rural major collector. Work includes significant drainage improvements and pavement structure will consist of a foamed asphalt design. Sidewalks will be provided along in-town portions of Norridgewock.

Route 115/202/4 Windham-Gray, Windham, ME - MaineDOT: Technical Manager on the final design for reconstruction of the intersection of Routes 115/202/4 near the Windham-Gray town line.

Pullen Fountain Improvements, Portland, ME - City of Portland:

Project Manager for pro bono work which consisted of engineering design and bid document support for a new pocket park at a historical horse fountain located on Federal Street. Work included coordination with the landscape architect, utility coordination, selection of subbase materials for the granite slabs and surface treatments, grading, and drainage evaluation. Modified the previously prepared concept to avoid major utilities along Federal Street, including gas and the City's main feed for 911 lines.

On-Call Traffic Engineering Services – Portland, ME - City of Portland

Design Lead for the following projects:

- Quality Community Programs Application, Various Sites - Prepared conceptual site plans and construction cost estimates for several pedestrian and bicycle improvement projects within City limits.
- Marginal Way/Chestnut Street Pedestrian Crossing – Managed the development of construction documents for the provision of an enhanced crosswalk including a refuge median, solar-powered flashing warning system, and ADA-compliant ramps.
- Neighborhood Byways – Modified City-prepared conceptual plans for pedestrian improvements at four residential intersections. New layouts were developed for a school bus design vehicle, and project included inventory and re-use, where possible, of existing curb due to limited availability.
- Walnut North Intersection Pedestrian Improvements – Developed two pedestrian improvement sketch plans – 3 way and 4 way - for the City to use in making decisions for actions at this intersection.

Representative Project Experience While Employed Elsewhere:

Maine Street Station Brownfield Site, Assessment and Redevelopment

Planning, Brunswick, ME for the Town of Brunswick: Design Lead responsible for planning and development of infrastructure for the Master Plan for a 23-acre brownfield site in the center of Town. A large part of this project involved working with the Town MSS Steering Committee for successful public participation with residents and other key stakeholders through public meetings and public educational workshops including a design charrette. Work included performing a preliminary traffic analysis and development and costing of preliminary layouts for this multi-use development that includes a train station/hotel, residential units, and commercial/retail/office space.

Maine Street Station Design-Build Redevelopment, Brunswick, ME for JHR

Development: Design Lead responsible for development of bid documents for removal/handling of coal tar-contaminated soil and infrastructure improvements for a multi-use Master Plan at this 23-acre Brownfield site in the center of Town. The project included commercial/retail/office space, residential units, hotel, and future plans for a train station.

Thomas A. Errico, PE

Senior Traffic Engineer

Registrations:

Registered Professional Engineer in Maine (6618), 1990; Vermont (6321), 1992; New Hampshire (10096), 1999; Massachusetts (37701), 1993;

Certifications:

Certified Maine DOT Locally Administered Project Manager

Academic

Achievements:

M.S., Civil Engineering, Northeastern University, Boston, Massachusetts, 1996

B.S., Civil Engineering, Northeastern University, Boston, Massachusetts, 1985

Professional Activities:

Member, Institute of Transportation Engineers (ITE), 1997-Present; Director of the New England Section, ITE 2010-2011; Institute of Transportation Engineers (ITE), National Committee Member on publishing a Report on Current Practices on Pavement Markings and Signing at Crosswalks, 2010; Member of the National Pedestrian and Bicycle Committee

Thomas Errico joined T.Y. Lin International as a senior associate and New England Traffic Engineering Director. His background in traffic engineering includes access management, corridor studies, traffic operations studies, pedestrian studies, parking studies, safety evaluations, and traffic impact studies. He has significant experience in designing traffic signals, developing and maintaining traffic plans, and determining intersection and roadway design requirements for highway projects, including auxiliary lanes, bicycle and pedestrian facilities, signing, and traffic control. He has worked extensively with traffic engineering software such as SYNCHRO, SimTraffic, HCS, TRANSYT-7F, PASSER, and CORSIM.

Project experience relevant to this proposal include:

The Harbor Walk (LAP Project), Belfast, ME

Lead Traffic Engineer providing expertise on bicycle/pedestrian trail and sidewalk design, ADA compliance, on and off street parking design safety, traffic calming, etc. for this trail along the City's waterfront.

Eastern Trail, Scarborough, ME

The first segment of the 55-mile multi-use trail system linking South Portland, Maine to the New Hampshire border. This segment is approximately a 3-mile off road portion between Black Point Road and Blue Point Road. Provided traffic engineering services as it relates to the evaluation and identification of design strategies at two at-grade crossings (Pine Point Road and Blue Point Road). Work required significant coordination with the MaineDOT Southern Region Office.

Bayside Trail, Portland, ME

City Review Engineer for the permitting and design of the Bayside Trail, ultimately linking the Eastern Promenade Trail with Deering Oaks Park. A key component of this effort was managing and leading the design of an at-grade crossing at the busy Franklin Arterial/Marginal Way intersection.

Complete Streets Design Training Initiative, UMass, Statewide, MA

Project Manager responsible for the development and delivery of approximately 80 training workshops throughout the state of Massachusetts. The workshops attendees included MassDOT engineers, consultants, and municipal staff.

Route One Infrastructure Plan, Town of Falmouth, ME

Project Manager and Lead Traffic Engineer in the development of a Plan that is a coordinated investment in, and improvement of, the public right-of-way (ROW) infrastructure of Route One to make it a more attractive, cohesive, functional, and pedestrian-friendly street that strengthens its economic viability and implements the Town's vision.

Member of the Speakers Bureau for the National Complete Streets Coalition.

Member of the Association of Pedestrian and Bicycle Professionals

Marginal Way Pedestrian and Bicycle Master Plan - Portland, ME

Lead Traffic Engineer responsible for the development of an improvement plan for Marginal Way that incorporates a balanced transportation infrastructure considering all modes including pedestrians, bicyclists, trucks, transit, on-street parking, and streetscape. The plan was based upon a 10-year Bayside Development Plan. The key part of the plan in the conversion of the existing four-lane section to three lanes.

On-Call Traffic Engineering Services- Portland, ME

Traffic Engineer responsible for providing technical assistance on a host of traffic related tasks including traffic calming, neighborhood traffic management, traffic control, safety studies, development reviews, traffic support for construction projects, traffic signalization design, and general traffic engineering tasks. Recent examples include:

- Elm Street Concept Design - TYLI is providing engineering services for providing new roadway alignments and cost estimates for improving sidewalk facilities in the Bayside neighborhood area.
- Forest Avenue/Deering Pavilion/RSVP – TYLI is providing design services for providing enhanced pedestrian safety across Forest Avenue. This includes the recent installation of a flashing warning system and potential plans for the installation of a refuge island which will require the closing of one RSVP driveway and possible alterations to their on-site parking.
- Marginal Way/Chestnut Street Pedestrian Crossing – TYLI prepared concept improvements and cost estimates and are currently developing construction documents for the provision of an enhanced crosswalk including a refuge median, solar-powered flashing warning system, and ADA compliant ramps.
- West Commercial Shared-Use Path - TYLI acted as the LAP Project Manager for the conduct of a feasibility study for the construction of a trail along the north side of West Commercial Street between the Veterans Memorial Bridge and Casco Bay Bridge.
- Crosswalk Committee - Tom Errico is a member of the City Crosswalk Committee that evaluates pedestrian facility issues including crosswalks (warrants, location, type, lighting, signage), ADA compliance, sidewalks, and signalization.
- Traffic Calming Program - Tom Errico administers the Traffic Calming program for the City and performs criteria warrant evaluations, data collection, development of conceptual and final calming plans; leads public meetings; and conducts post survey studies.

Downtown Westbrook Streetscape Study, Westbrook, ME

TYLI staff prepared a streetscape plan that was adopted unanimously by the City Council. The study had a broad public outreach program that followed the guiding principles of “Context Sensitive Solutions” and as such involved numerous study committee meetings (the committee comprised of business owners, residents, staff, a planning board member, and a city councilor).

Richard M. Hebert, PE
Senior Structural Engineer

Registrations:

Professional Engineer in Professional Engineer in Maine (8210), 1995; Massachusetts (42816), 2000; Vermont (7719), 2000; West Virginia (17306), 2007

Academic

Achievements:

*MS, Civil Engineering, University of Maine, 1993;
BS, Civil Engineering, University of Maine, 1989*

Continuing Education:

'Geosynthetic Reinforced Soil (GRS) / Integrated Bridge System (IBS), MaineDOT/FHWA Technical Seminar, 2011;

Stream Stability and Scour at Highway Bridges, VTrans/NHI Course, 2011;

'HEC-RAS River Analysis System', WVDOT/NHI Course, 2009

'Load and Resistance Factor Rating for Highway Bridges, WVDOT/NHI Course, 2009

Mr. Hebert joined T.Y. Lin International in 1992 and has more than 20 years of specialized experience in the design of various types and sizes of bridges and structures. His background includes the inspection, analysis, design, and preparation of construction documents for a variety of steel, timber, and concrete highway, pedestrian, and multi-use bridge structures. Currently, he is a Senior Bridge Engineer and Project Manager in our Falmouth office.

A representative sampling of his expertise in pedestrian and multi-modal bridge projects is demonstrated by his involvement in the following projects:

Eastern Trail Bridge over Dunstan River, Scarborough, ME - Eastern Trail Management District (ETMD)

Project Manager and Project Engineer for this pedestrian river crossing structure. This segment of the Eastern Trail included the design and construction of a 142-foot crossing over the Dunstan River and 2.7 miles of trail extending over the Scarborough Marsh, a highly sensitive environmental area. The majority of the project was constructed within the limits of a pre-existing utility right-of-way and affected utilities were carefully managed to minimize environmental impacts. Coordinating the requirements and goals of the many entities with a stake in this project became an early focus during the conceptual design stage. An important objective was to make provisions in the design to move utilities to the new bridge and remove the adjacent pre-existing utility bridge to improve the overall site aesthetics. Consulting services provided for this project included developing conceptual bridge designs and preparing a Bridge Type Study, participation in public meetings, coordinating with utilities, developing final bridge design and contract documents (PS&E), and providing engineering services during construction. A pre-fabricated painted galvanized steel truss bridge supported on reinforced concrete stub abutments founded on steel H-piles fully addressed all project constraints and objectives and was advanced through final design. Below the bridge deck, the structure carries a 12-inch diameter force main sewer and gas line.

Anacostia Riverwalk Trail FRP Bridges, East Bridge, Washington, D.C. - District of Columbia Department of Transportation

Lead Structural Project Engineer responsible for preliminary design of four multi-use trail bridges and over 1000 linear feet of boardwalk structures and final design of the multi-use trail bridge over the CSXT railroad line and rail yard. Coordination efforts for this project were significant and include an unusually large number of parties including DDOT, the National Park Service, and the CSXT Railroad. Several alignment and structure type alternatives were considered during preliminary design. The structure type alternatives included straight and curved rolled steel beams and steel plate girders, pre-fabricated steel truss spans, and tangential precast concrete beams. The project includes fiber reinforced plastic (FRP) deck components. Demonstration funding supplied by the National Composites Center was used to offset the high cost of FRP decking. The new structure is a 155-foot pre-fabricated steel truss bridge

main span over the tracks with multi-span curved steel plate girders. The bridge also spans several critical utilities which could not be relocated as part of the project. The total bridge length is over 1,100 feet. Final design activities included analysis and design, development of details, development of plans and specifications, and preparation of construction cost estimate. As part of this project, TYLI has also prepared preliminary and final design for a similar new grade separation bridge over another railroad line located on the West side of the Anacostia River, and 3,200 feet of new multi-use trail.

Androscoggin-to-the-Kennebec Trail Feasibility Study, ME - Town of Brunswick and City of Bath

Served as Project Engineer for the Study which involved investigating the feasibility of developing an integrated trail system connecting the existing path in Brunswick to the new Sagadahoc Bridge in Bath. Responsibilities included analysis and design of structure alternatives, development of construction cost estimates, and preparation of associated sections of the Feasibility Study Report. The Study included two crossings over the New Meadows River and U.S. Route 1 and crossings over Old Brunswick Road and a Maine Department of Transportation (MaineDOT) rail line. Recommended alternatives included widening existing bridges and constructing new bridges with spans ranging from 60 feet to 390 feet long.

Topsham Trails Feasibility Study, ME - Town of Topsham

Served as Project Engineer for the proposed bike path extension through the Town of Topsham. The Study investigated the feasibility of developing an integrated trail system connecting the existing path in Brunswick to the Topsham Fair Mall in Topsham. Responsibilities included analysis and design of structure alternatives, development of construction cost estimates, and preparation of associated sections of the Feasibility Study Report. The Study included 3 new bridge structures with spans ranging from 65 feet to 130 feet long.

Blue Heron Pedestrian Bridge over the Upper Charles River between Newton and Watertown, MA - Metropolitan District Commission

Project Manager/Engineer responsible for preliminary and final design of a 150-foot span signature pedestrian/bicycle bridge for the Upper Charles River Reservation Restoration Project. A primary objective established by the MDC for this crossing was to create not only an economical functional bridge, but also a structure that would blend seamlessly into the environment and serve as a destination point for park users. Several unique structure configurations were considered in the preliminary design phase in order to achieve the MDC's goals. The structure would need to be bold yet non-imposing. Views along the river should be unobstructed, requiring an open structural design. The structural configurations considered included a truss-arch, tied arch, and a tilted tied arch. The tilted steel tied arch was recommended for final design. This structure was best able to economically meet the desired aesthetic qualities for this central crossing. Specific duties included conducting bridge type study, preliminary bridge design, and final design review QA/QC of the PS&E package.

TERRENCE J. DEWAN, FASLA
Principal, Landscape Architect

Terry DeWan has over 40 years of professional experience in landscape architecture, visual resource assessment, site planning, design guidelines, community development. His experience includes work with communities, state agencies, private developers, utility companies, and the forest products industry in New England. He has written numerous studies on community planning, visual impacts, recreation planning, water access, and highway corridor redevelopment.

Maine Licensed Landscape Architect #6

EDUCATION

BSLA, State University of New York, School of Environmental Sciences and Forestry, cum laude

PROFESSIONAL EMPLOYMENT

1988-Present	Terrence J. DeWan & Associates Yarmouth, ME Principal
1977-1988	Mitchell-DeWan Associates Portland, ME Partner
1976-1977	Center for Natural Areas South Gardiner, Maine Landscape Architect
1973-1976	Moriece and Gary of Maine Portland, ME Landscape Architect
1971-1973	The Architects Workshop Philadelphia, PA VISTA/Landscape Architect
1970-1971	Rocky Mountain Development Council, Helena, Montana VISTA Volunteer
1969-1970	Peter G. Rolland and Associates, Rye, NY

PROFESSIONAL AFFILIATIONS

Maine State Board for Licensure of Architects,
Landscape Architects and Interior Designers
American Society of Landscape Architects
Boston Society of Landscape Architects

American Planning Association
Maine Association of Planners
Council of Landscape Architects Registration
Boards: Board of Directors
Landscape Architecture Accreditation Board:
Roster of Volunteer Evaluators
Congress for the New Urbanism
Portland Public Arts Committee
Royal River Conservation Trust
Board Member.

SELECTED PROJECT EXPERIENCE

LANDSCAPE ARCHITECTURE & PLANNING

Bethel Pathway, Bethel, ME. A multi-use pathway along the Androscoggin River.

Beth Condon Memorial Pathway, Yarmouth, ME. A multi-use pathway parallel to Route One, that is a link in the East Coast Greenway.

Shoreway Access Plan, Portland, ME. Thirty miles of trails linking Portland's waterfronts and neighborhoods.

Spring Point Shoreway, South Portland, ME. A mile-long oceanfront park.

Kennebec-Chaudière Heritage Corridor. Interpretative and facilities master plan for heritage trail between Popham Beach and Solon, ME. MaineDOT.

Route 27 Scenic Byway Corridor Management Plan. Long-term plan for 45 miles of Route 27 between Kingfield and Canada. MaineDOT.

Route One Improvements Plan, Lincolnville. MaineDOT. Incorporating road improvements, bicycles, and pedestrian facilities along a highly scenic roadway.

MaineDOT: Bath-Woolwich Bridge. Assessment of potential visual impacts to the historic U.S. Custom House in Bath, ME.

Skyline Farm, North Yarmouth, ME. Master Plan for access to renovated carriage museum, parking, multi-purpose trails, and horse arenas.

South End Urban Design Plan. Bath, ME. A long-term improvement plan for the historic community adjacent to BIW.

Town Hill Village Plan, Bar Harbor, ME.

A framework for future growth to preserve open space, encourage pedestrian movement, create a more sustainable commercial core, and accommodate new housing.

Dunstan Great American Neighborhood, Scarborough, ME. A new community of 300 housing units and a neighborhood commercial center on 150 acres.

Preliminary Facilities and Interpretive Media Plan, Kancamagus Scenic Byway. White Mountain National Forest. Demonstration forest, hiking trails, interpretive exhibits, overlooks, outdoor amphitheater.

Design Guidelines. Raymond; Falmouth (Exit 10, Route One, and Village Center); Brunswick (Cook's Corner); Skowhegan; Freeport (Route One South); Yarmouth; Kittery; Scarborough; NH Route 101A; Raymond.

Brighton Avenue Study, Portland and Westbrook, ME. A detailed look at ways to improve the visual environment and traffic safety along a major arterial.

A Revitalization Plan for Maine Street, Brunswick, ME.

Interpretive, Access and Facilities Plan, Wells National Estuarine Research Reserve.

Cook's Corner Master Plan, Brunswick, Maine. Town of Brunswick, ME.

Open Space Plan, Falmouth, ME. Strategies for dealing with change and protecting open space in a rapidly developing community.

Open Space Plan, Scarborough, ME. A long term plan to preserve open space in Maine's fastest growing community.

SELECTED PUBLICATIONS

Scenic Assessment Handbook, Maine State Planning Office. 2008.

Royal River Corridor Study. Yarmouth, ME. With Stantec. 2008.

A Vision for the Moosehead Lake Region. Natural Resources Council of Maine. 2006.

The Greening of Falmouth. Falmouth Conservation Commission. 2006.

Kittery Design Handbook. Kittery Planning Board, with Planning Decisions. 2005.

The Great American Neighborhood, A Guide to Livable Design. With Brian Kent, Evan Richert, and Beth Della Valle. Maine State Planning Office. 2004.

Scenic Inventory, Islesboro, North Haven, Vinalhaven, Maine. State Planning Office Critical Areas Program. 1992.

Scenic Inventory, Mainland Sites of Penobscot Bay. With Don Naetzker. State Planning Office. 1990.

SELECTED PRESENTATIONS

Wind Energy, Addressing Visual Impacts in Skeptical Communities. ASLA Annual Meeting, San Diego, CA. 2011.

Living and Working in a Geo-Referenced World. ASLA Annual Meeting, Washington, D.C. 2010.

Scenic Inventory Training, Maine State Planning Office, 2009.

Healthy Maine Communities: 12 scripted presentations for MDOT to promote walking and walkable communities in Maine.

Great American Neighborhood Design Concepts. Annual Meeting Northern NE Chapter APA, Meredith NH. 2006.

Traditional Neighborhood Development in Maine: Friends of Mid-Coast Maine, 2006.

Sharing the Road: Bicycles and Pedestrians. New England Transportation Safety Conference. 2005.

Healthy Maine Walks, Powerpoint shows of the MDOT. Pro-Bike-ProWalk Conference, Victoria, BC. 2004.

Art into Landscape/Landscape into Art. Landscape and Art: Reflections on Places and Spaces. Maine Olmsted Alliance. Bowdoin College. 2004.

SARAH C. WITTE, ASLA
Senior Associate. Landscape Architect

Ms. Marshall's twenty-five years of professional experience in Massachusetts, Arizona, and Maine provide TJD&A with expertise in site planning, cost estimating, project administration, master planning, planting plans, gardening and graphic design.

Sarah has guided numerous private and public sector projects through planning and development stages, and is familiar with state and local regulatory processes.

Maine Licensed Landscape Architect #114

EDUCATION

BFA Landscape Architecture
 Rhode Island School of Design, cum laude

MLA Harvard University Graduate School of Design, with Distinction

SPECIAL TRAINING

Brownfields Seminar, MaineDEP
 Manufactured Sites, Harvard GSD

Our Town: Creating Community Strategies
 for Affordable Housing, MSHA

Wetlands and Shoreland Zoning Conference,
 ME Chamber of Commerce & Industry

SELECTED PRESENTATIONS

Traffic Calming, Stevens Avenue, Portland.
 Case Study for pedestrian and traffic
 improvements, Greater Portland Council of
 Governments, 1994

Landscape Renovation, courses in site
 planning and perennial garden design,
 University of Southern Maine Continuing
 Education, Cape Elizabeth Community
 Education programs, 1994.

*Guest Critic, Sculpture & Site course by
 Duncan Hewitt, Sculptor, Fine Arts Dept.,
 University of Southern Maine, 1996.*

*Eastern Prom, Stevens Avenue, and the
 Pedestrian Access to the Portland/South
 Portland Bridge, presentation at the PRO
 BIKE/PRO WALK Conference, Portland, ME
 1996.*

*Making Peace with Shoreland Zoning: A
 Workshop Presentation, with Town Staff and
 Michael Kreindler Architectural Design, for
 contractors, realtors and shoreland residents.
 Yarmouth, ME 2009.*

PROFESSIONAL EMPLOYMENT

1988-Present Terrence J. DeWan &
 Associates, Yarmouth, ME
 Senior Associate,
 Project Manager &
 Landscape Architect

1987-1988 Mitchell-DeWan Associates
 Portland, Me
 Planner/Designer

1985-1987 Sunset Landscaping &
 Designs, Phoenix AZ
 Landscape Designer

1982-1984 Clifford Selbert Design
 Cambridge, MA
 Graphic /Landscape Designer

1978-1982 William Pressley & Assoc.
 Cambridge, MA
 Landscape Designer

PROFESSIONAL AFFILIATIONS

American Society of Landscape Architects
 Comprehensive Planning Committee,
 Yarmouth, ME, Natural & Marine
 Resources Subcommittee, 1990, revised
 Comp. Plan Finance committee, 2008
 Freeport Historical Society, Pettingill Farm
 Subcommittee, 1992
 Freeport Recreation Committee, Design and
 Graphic Support, 1995

SELECTED PROJECT EXPERIENCE

Terrence J. DeWan & Associates

State House Green, Augusta, ME. Between the State House and the State Museum, this new urban plaza provides a focal point for official ceremonies, a sunny place for lunchtime activities, and a gathering point for school groups.

University of Maine • Farmington

Through LEED certification and design process for the new College of Education, Health and Rehabilitation building on a visible corner, this project demonstrates green design within a campus setting.

Rockland Memorial Library, Rockland, ME.

A major addition to the historic granite library structure involved design with volunteer committee, and contract documents for accessible entrances, a children's garden and a meditation garden.

Lincoln School Master Plan, Providence, RI.

Master Plan and public review for a Friends day school for girls, K-12 . Pedestrian safety, play areas, and community relations in a residential East Side neighborhood.

Bayside Master Plan, Portland, ME.

New infrastructure and public-private gateway development. In Phase II, TJD&A developed height and massing design guidelines.

Bayside Trail, Portland, ME. In 2008, a public-private partnership between MaineDOT, the City, the Trust for Public Land and Portland Trails began planning an urban greenway to connect neighborhoods, offer breathing space to a dense downtown.

Community Park, Falmouth, ME.

Design charrette and long-range planning process for 120 acres of active and passive recreation, including ballfields, trails, and a working demonstration farm.

Eastern Promenade Trail, Portland, ME.

Plans for a transportation corridor for bikes, pedestrians, narrow gauge railroad in an historic park on Portland's waterfront.

Freeport, ME.

New sign system throughout Freeport uses fresh color and custom icon symbols to welcome and direct visitors.

Thomaston Green, Thomaston, ME.

TJD&A led an extensive community participation process that resulted in a master plan that will weave new residential and commercial uses into the fabric of the village.

Yarmouth Family Physicians/ Mercy Hospital, Yarmouth, ME.

Site planning and project coordination for a new 14,000 sf medical arts building in a mill-reproduction building in the Village.

Coastal Maine Botanical Garden, Boothbay, ME.

Design development and construction documentation for a world class botanical garden master planned by EDAW, Inc.

Merriconeag Waldorf School, Freeport, ME.

Master plan for entire acreage of MWS School, including rec fields, new classroom and administration buildings, new entrance, new high school.

Breakwater School, Portland, ME.

Long-range concept plan for school ground greening and coordinated use with adjacent Nason's Park.

Unity College, Unity, ME.

Master plan for a carbon-neutral, energy-efficient campus, restoring wetlands and streams for a visionary environmental stewardship school.

AWARDS AND DISTINCTIONS

- | | |
|------|---|
| 1978 | Rhode Island School of Design
Scholarship Prize |
| 1981 | Harvard University GSD
Webel Memorial Scholarship |
| 1982 | Harvard University GSD
MLA with Distinction |
| 1989 | <i>Maine Association of Planners</i>
Project of Year Award for
RWS Balefill End Use Plan |
| 1995 | <i>Northern New England Association
of Planners, Maine Assoc. of Planners</i>
Plan of the Year for The Eastern Prom
Trail Corridor Concept Plan |
| 2006 | Boston Society of Landscape Architects
Planning Award for the Coastal Maine
Botanical Gardens (with EDAW) |

THOMAS FARMER
Associate, Landscape Architect

Tom's twenty years of professional experience in Maine, New Hampshire, and Kansas includes pathway and trail design, recreation planning, campus planning, and residential and commercial site design. Tom brings to TJD&A expertise in design, project administration, contract document preparation, permitting, and construction administration.

Maine Licensed Landscape Architect #2266
New Hampshire Licensed LA #65
CLARB Certified Landscape Architect

EDUCATION

- 1993 Kansas State University, BLA
 Certificate in Community and
 Regional Planning
 Semester abroad
 Italy International Studio 1991-1992
- 1987 University of New Hampshire
 Associates Degree, Civil Technology

SPECIAL TRAINING

- ME State Bar Association: Permitting Environmental Projects in Maine
- MeDOT: Local Project Administration Course
- MeDOT: Bicycle/Pedestrian Design Workshop
- PACTC and MeDOT: Context Sensitive Solutions Workshop

PROFESSIONAL EMPLOYMENT

- 1996-Present TJD&A, Yarmouth, ME
- 1993-1996 Mohr & Seredin Landscape Architects, Portland, ME
- 1990-1993 Kansas State University Campus Planning Office, Manhattan, KS
- 1987- 1988 Kimball Chase Inc., Environmental Engineers, Concord, NH

PROFESSIONAL AFFILIATIONS

CLARB: Council of Landscape Architects Registration Board. Landscape Architect Registration Exam grading and scoring
Portland Trails: Board of Trustees; Trail Committee

SELECTED PROJECT EXPERIENCE

Bayside Promenade Trail.

An exciting urban greenway that will connect businesses and neighborhoods in Portland's Bayside District. The trail utilizes an abandoned railroad ROW from the terminus of the Eastern Promenade Trail (TJD&A designed) southwest to Elm Street, eventually connecting to Deering Oaks Park.

Beth Condon Memorial Pathway Extension Feasibility Study and Phase 1 Construction, Yarmouth, ME.

A study to evaluate the feasibility of extending the existing Pathway from the Royal River in Yarmouth to the YMCA in Freeport. TJD&A continued with final design, construction documentation, and construction administration for a 1.5-mile extension of the existing pathway.

Topsham Trails, Topsham, ME. A study to review numerous alternatives for extending the Androscoggin River Bikeway in Brunswick to the Topsham village, schools, and shopping district. Awarded Maine Association of Planners Plan of the Year.

Eastern Trail Phase 1 Final Design, Scarborough, ME. Landscape architectural design and construction documentation for the first segment of the Eastern Trail.

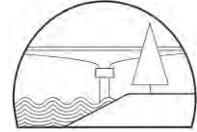
PRESENTATIONS

PRO Bike/PRO Walk 2002, St. Paul, MN.
 Conference presenter: Powerpoint presentations as effective public relations tools.

PRO Bike/PRO Walk 2004, Victoria, BC.
 Poster Presentation: Photosimulations: an effective design and communications tool for community planning.

AWARDS AND DISTINCTIONS

American Society of Landscape Architects Merit Award for Communications
 Chattahoochee River Greenway, Atlanta, GA.
American Society of Landscape Architects Merit Award for Communications
 Los Angeles River Study, Los Angeles, CA.
Maine Association of Planners Plan of the Year.
 Topsham Trails Feasibility Study, Topsham, ME.



BAKER DESIGN CONSULTANTS
CIVIL, MARINE, AND STRUCTURAL ENGINEERING

BARNEY BAKER, PE

1996 to Present Baker Design Consultants, Inc. - *Yarmouth, Maine*

Mr. Baker established Baker Design Consultants, Inc. in 1996 to serve the civil and structural engineering needs of public and private clients in the region. In 25 years as a practicing professional engineer, he has designed and supervised projects that include site development, buildings, bridges, dams, bulkheads, retaining walls, revetments, waterfront structures, and river walks.

A portfolio of Maine projects undertaken by Mr. Baker includes work for public agencies, municipalities and private clients. In addition to design services, this work often includes concept planning and facilitation for a cost effective design, Masterplan development to serve long-term needs, grant writing to support project funding and local, state and federal permitting to move projects to construction.

In his capacity as principal and chief engineer, Mr. Baker personally supervises all projects undertaken by the firm.

1985 T.Y. Lin International - *Falmouth, Maine*

In his tenure with this internationally renowned company specializing in transportation structures, Mr. Baker's responsibilities progressed to that of Senior Structural Engineer and Project Manager for the Maine office. In this capacity, he supervised planning, permitting, design, and construction administration for transportation structures and waterfront projects undertaken in the region.

Bridge projects included highway, rail, and pedestrian structures for federal, state and municipal clients in the region. Structure types comprised prefabricated arches, multi-plate culverts, rigid frames, single and multiple span bridges, and access walkways.

Building projects undertaken by Mr. Baker included a precast concrete parking garage, municipal treatment plant buildings and tankage, fire stations, hatcheries, and public works facilities.

1980 WA Fairhurst and Partners - *Edinburgh, Scotland*

Mr. Baker worked as team project structural engineer on a variety of bridge, roadway and historic building rehabilitation projects.

REGISTRATIONS

Licensed
Professional
Engineer in the
State of Maine
(5737)

MDOT Level II
Local Project
Certification

PROFESSIONAL ACTIVITIES:

Member:

American Society
of Engineers

Consulting
Engineers of Maine

Friends of Casco
Bay

Maine Better
Transportation
Association

Maine Island Trails

Structural
Engineers
Association of
Maine

Island Institute

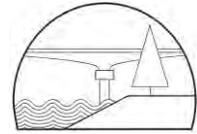
Associate Member:

Maine Marine
Trades Association

ACADEMIC ACHIEVEMENTS:

BS (Hon) Civil
Engineering,
University of
Edinburgh,
Scotland, 1980

Thesis: Fabric in
Reinforced Earth



BAKER DESIGN CONSULTANTS
CIVIL, MARINE, AND STRUCTURAL ENGINEERING

DANIEL BANNON, PE

2012 to Present Baker Design Consultants, Inc. - Yarmouth, Maine

Mr. Bannon joined Baker Design Consultants in 2012 as a Project Engineer. His responsibilities include all facets of project management including client liaison, planning, permitting, design development, plan production and construction oversight.

Using his background and expertise in structural materials, Mr. Bannon provides a unique opportunity for the firm to consider the first cost and life cycle benefits of reinforced concrete, timber, steel, and composite alternatives for bridge, building and coastal structures.

2009 to 2012 Advanced Infrastructure Technologies - Orono, Maine

In his position as Structural Bridge Engineer, Mr. Bannon played a major role in the engineering startup efforts of a small company commercializing new bridge construction technology. His primary responsibilities were structural engineering and project management on highway and pedestrian bridge projects.

His projects included over ten bridges in ME, MA, and NH, with involvement throughout all phases of design and construction. Engineering responsibilities included design of reinforced concrete, steel, and fiber-reinforced polymer (FRP) composites, as well as specification writing, drafting, and construction oversight.

Mr. Bannon has co-authored design specifications for AASHTO, and presented to TRB, FHWA, AASHTO, ACI, and numerous other engineering and trade organizations.

2007 to 2009 AEWC Composites Center - Orono, Maine

Design, fabrication, and testing of FRP composite materials, finite element analysis, and full-scale structural testing of FRP reinforced concrete bridge components.

2005 to 2007 Summit Environmental Consultants -Lewiston, Maine

Field and laboratory testing of concrete and soils, construction oversight, field monitoring of geotechnical investigations, QA inspection of geosynthetic landfill liners.

REGISTRATIONS

Licensed
Professional
Engineer in the
State of Maine
(13033)

MDOT Local
Project
Administration

ACMA Certified
Composites
Technician

PROFESSIONAL ASSOCIATIONS

Member:

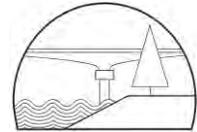
American Concrete
Institute

Structural
Engineers
Association of
Maine

EDUCATION

M.S. Civil
(Structural)
Engineering,
University of
Maine, 2009

B.S. Civil
Engineering,
University of
Maine, 2007



BAKER DESIGN CONSULTANTS
CIVIL, MARINE, AND STRUCTURAL ENGINEERING

JEFF COMEAU

2011 to Present Baker Design Consultants, Inc. - Yarmouth, Maine

Mr. Comeau joined Baker Design Consultants in 2011 as a civil designer with over 20 years of experience within the survey and civil consulting engineering fields.

Jeff serves as designer for the firm with duties including, but not limited to, drafting of full and half size permitting and construction drawing sets using AutoCAD and Civil3D; figure & exhibit drafting; mapping; 3D modeling, site grading & layout with Civil3D, assist engineers with permitting tasks; quantity take-offs from planar and 3D objects; building and advanced editing of digital surfaces from varying data sources; use of imagery, SHP files, DEM files and other mapping data from public domain websites and other resources; geo-referencing; data conversions (datum, file type, other).

2007 to 2011 HDR Engineering (formerly DTA) - Portland, Maine

In his capacity as senior civil technician, Mr. Comeau provided technical and drafting support to Engineers and Scientists supporting the renewable energy industry (Hydro, Wind, Tidal, etc.).

2005 to 2007 SYT Design Consultants - Cumberland, Maine

Mr. Comeau provided AutoCAD support to a team of Civil Engineers and Landscape Architects on a wide range of land use projects.

2002 to 2005 SGC Engineering, LLC - Westbrook, Maine

Manager of CAD, GPS Equipment, Vehicles, and Plotting for all offices; managed all aspects of assigned projects from start to finish including; project estimating and proposal composition; management & setup for field tasks; office QA/QC of final field data; field observation adjustments (least squares) and importing to AutoCAD/LDD; led crews in field as needed; deed research & analysis; boundary solving; drafting of boundary plats, topographic, and location surveys; mapping; generated survey computation worksheets using Massachusetts Court Land Survey standards; advanced construction stakeout; performed and post-Processed all static, RTK, and differential GPS surveys; worked closely with photogrammetric companies to acquire contours, digital surfaces and other data for larger projects; assisted civil engineers with drafting & mapping projects; developed CAD standards and survey operational standards for the firm; technical mentor to the survey group.

TRAINING & CERTIFICATIONS

Hydrologic
Technician
Certification
Level I
2009- 2011

4D Technologies:
Civil3D 2010 Series

Imaginit:
Civil3D
Intermediate
Civil3D Advanced
Road Grading

MicroDesk:
Civil3D
Fundamentals

DTI Technology:
AutoCAD
Land Development
Desktop

EDUCATION

1989-1990 Capitol
Area Technical
Center, Augusta,
ME; Drafting &
Design Technology

SOFTWARE

AutoCAD 2012
Civil3D 2012
Raster Design 2010
LDD 2009
MS Office 2010



PENOBSCOT

ENVIRONMENTAL CONSULTING, INC.

MICHAEL E. THOMPSON, M.Sc., CWB, PWS

Background

Michael Thompson is a Certified Wildlife Biologist and Professional Wetland Scientist and the principal of *Penobscot Environmental Consulting, Inc.* He has over 30 years of experience in wildlife research, forest ecology, biometrics, ecological risk assessment, rare plant and animal conservation, ecological restoration, wetlands, and aquatic ecology. He also has extensive experience in Federal and State permitting and regulatory approval processes for large and complex projects, including FERC hydropower relicensing, wind power facilities, nuclear power plant decommissioning, real estate development, highway and bridge construction, and airport expansions.

Mr. Thompson is the Past President of the North Atlantic Chapter of the Society of Environmental Toxicology and Chemistry (SETAC) and the Maine Chapter of The Wildlife Society.

Penobscot Environmental Consulting, Inc.

Penobscot Environmental is a multi-disciplinary environmental consulting company that, individually and with partner consulting firms, offers a full range of environmental consulting services to both public and private clients. While serving a wide range of clients, the firm specializes in projects related to natural resource conservation and management, renewable energy, ecological risk assessment, transportation, real estate development, and forest management.

Representative Projects:

Eelgrass Survey, Vinalhaven. Senior scientist responsible for eelgrass surveys to support permitting of a private dock.

Knox County Regional Airport Wetland Mitigation. Senior scientist responsible for wetland mitigation services in support of improvements to the Knox County Regional Airport.

Deerfield River Recreational Enhancements. Senior scientist responsible for natural resource delineation and permitting for recreational enhancements on TransCanada sites in western MA. Recreational enhancements included improving boat launches, enhanced parking and traffic flow, and picnic table/fire pit layout. Additional projects included locating new trail systems to provide access for hiking, nature watching, and viewing whitewater boating. Trail locations required delineating wetlands and rare plant habitats and locating trails accordingly.

Education:

1981 B.Sc. Wildlife
University of Idaho
1984 M.Sc. Wildlife
University of Maine

Employment:

Penobscot Environmental Consulting, Inc. 2007-present. President and Principal Ecologist

First Wind. 2011-2012. Permitting and Compliance Manager

Woodlot Alternatives, Inc. 1993-2007. Vice President and Principal Ecologist

Northrop, Devine & Tarbell, Inc. 1990-1993. Lead Terrestrial Scientist

James Haskell & Associates. 1989. Senior Wetland Scientist

T.F. Moran, Inc. 1988-1989. Senior Wetland Scientist

Maine Department of Transportation. 1986-1988. Wetland and Wildlife Scientist

Vermont Fish & Wildlife Department. 1984-1986. Information and Education Representative

University of Maine. 1982-1984. Research Associate

Vermont Fish & Wildlife Department. 1982. Wildlife Research Biologist

Certifications:

Certified Wildlife Biologist
Professional Wetland Scientist
OSHA Hazardous Waste Operations

Affiliations:

The Wildlife Society
Society of Wetland Scientists
Assoc. MA Wetland Scientists
Maine Assoc. of Wetland Scientists

MARK EYERMAN

President

PLANNING DECISIONS

Research & Planning

Mark Eyerman is co-owner of Planning Decisions, Inc. He specializes in community and land use planning, downtown studies, capital improvement planning and funding, and market analysis. Mark has a broad background in community planning, demographic analysis, school enrollment forecasting, market research, focus groups and consumer research.

Mark has extensive experience as the manager of complex projects. He has been a member of the faculty of the Geography Department at the University of Southern Maine, and regularly speaks at a wide variety of workshops and seminars.

EDUCATION

Master of Science in Urban Affairs, University of Wisconsin at Milwaukee, 1970.

Bachelor of Science in the Building Sciences, School of Architecture, Rensselaer Polytechnic Institute, Troy, NY, 1968.

Professional Study Visit Program in City Planning, the Swedish Institute, Stockholm, Sweden, 1973.

EMPLOYMENT EXPERIENCE

President, Planning Decisions, Inc. (present): Responsible for the overall management of a planning and research firm providing services to clients in the areas of community planning, development approvals, market research, site location studies, and focus group research.

CEO, Market Decisions, Inc. (1982-1995): Responsible for the overall management of a planning and research firm providing services to clients in the areas of community planning, development approvals, market research, site location studies, consumer and customer research, attitude and image surveys and focus group research.

Planning and Research Consultant (1981-1986): Provided planning and research services to public and private clients in the areas of public policy development, long-range planning, facility siting, demographic research, development approvals and capital investment strategies. In this capacity, served as the planner for Westbrook and Gorham.

Senior Planner, Greater Portland Council of Governments (1975-1981): Responsible for the development and management of various planning programs dealing with land use and development, transportation, environmental impacts, siting of regional facilities and resource utilization.

Senior Planner, Nashua Regional Planning Commission (1973-1975): Responsible for the development and management of research and planning studies.

Community Development Director/Planner, City of Lorain, Ohio (1970-1973): Responsible for the planning of \$5 million downtown renewal program including supervision of land marketing studies, review and selection of development proposals and development financing.

MEMBERSHIPS, AWARDS, PUBLICATIONS AND ACTIVITIES

1996 Planner of the Year Award, Maine Association of Planners

1996 Outstanding Planning Professional Award, Northern New England Chapter, American Planning Association

Past President, Northern New England Chapter of the American Planning Association

Past President, Maine Association of Planners

Author, "*All Land is Not Created Equal*," national award winning handbook on land use

CHARLES LAWTON, Ph.D.

Chief Economist

PLANNING DECISIONS

Research & Planning

Chuck is an economist with extensive experience in education, government and business. He specializes in development economics, economic and fiscal impact studies, strategic planning exercises and industry analysis. For six years, Chuck was a member of the Consensus Economic Forecasting Committee (CEFC) that advised Maine's Legislature and Governor on economic and revenue forecasting and was a charter member of the Federal Reserve Bank of Boston's New England Public Policy Center Advisory Board. He is currently on the Board of the Maine Center for Creativity and writes a weekly column on economic policy for the Maine Sunday Telegram.

EDUCATION

The Kennedy School, Harvard University, Program for Senior Executives in State and Local Government, graduate certificate.

The Fletcher School, Tufts, University, M.A., Ph.D., International Economics, (Ford Foundation Fellow).

The University of Toledo (Toledo, Ohio), B.A., International Studies (Woodrow Wilson Fellow)

EMPLOYMENT EXPERIENCE

Chief Economist, Planning Decisions, Inc.: undertakes broad range of economic analyses for local, state and regional clients; testifies before numerous legislative and regulatory bodies and serves on the boards of several voluntary public policy oriented organizations.

CFO, Principal, Kirsten Scarcelli Co.: led start up and growth to \$3.5 million in annual sales of a woman's apparel designer/manufacturer/retailer.

Director of Economic Development, Maine State Planning Office: provided policy analysis to Governor; supervised staff of 16.

Professor of Economics, University of Maine at Farmington: taught economics, elected President of Faculty Senate, awarded Fulbright-Hays Senior Fellowship to teach in West Africa for one year.

SELECTED WORK EXPERIENCE

Economic Development:

- Primary author of reports on the potato industry, the biotechnology industry, the dairy industry, the wild blueberry industry, the boat building industry on numerous institutions of higher Education and on the impact of NAFTA on Maine manufacturers.
- Appointed by Maine's Governor to be a member of the Commission on Maine's Quality of Place; worked with business and community leaders to develop legislation to enhance Maine's downtown centers and historic places and to promote economic development through preserving quality of place.

Strategic Planning & Impact Analysis:

- Conducted fiscal impact analyses and cost benefit analyses of the proposal to renovate the Maine Youth Center in South Portland; of the proposed Army Corps investment in the pier at Camp Ellis; of the proposed Cumberland County Civic Center; of the Gulf of Maine Research Institute and of the O'Neil Federal Office Building in Boston.
- Conducted fiscal impact analyses for the Plum Creek proposal to develop over 900,000 acres in the unorganized territory around Moosehead Lake in northern Maine.
- Worked with numerous communities to develop downtown, municipal and regional development strategies; developed Tax Increment Financing proposals to assist in community economic development.

Troy F. McDonald, PLS

Executive Vice President

Education:

Central Maine Technical College
Auburn, ME

- *A.S. Civil Engineering & Architectural Design*

University of Southern Maine
Gorham, ME

- *B.S. Applied Technical Leadership*

Registrations:

Professional Land Surveyor:

- Maine #2080

Memberships:

- *Telephone Association of New England (TANE)*
- *Telephone Association of Maine (TAM)*
- *Telcom Pioneers – Jasper N. Keller Chapter #33*
- *International Right-of-Way Association – Chapter #16 (IRWA)*
- *Maine Society of Land Surveyors (MSLS)*
- *National Society of Professional Land Surveyors (NSPS)*
- *American Congress of Survey and Mapping (ACSM)*
- *American Society of Civil Engineers (ASCE)*

Presentations:

- *“Benefits of a GIS System for an FTTP Network and Outside Plant Engineering”*
- Presented to Verizon FTTP Program Office
- *“Right-of-Way Process & Issues”* - Presented to Verizon Engineering Management staff for Maine, New Hampshire & Vermont.
- *“Land Surveying, Mapping the Road to Approval”* – Presented to the International Right-of-Way Society.

Mr. McDonald has over 28 years' experience in the land surveying and engineering profession. After obtaining his professional license in 1989, Troy established a professional land surveying and civil engineering firm which focused on the needs of the pole plant industry. With New England Telephone and Telegraph Company securing the services of his firm, Troy developed a professional relationship, providing land surveying, engineering, right-of-way and consulting services which continues to this day.

In 1997 New England Telephone & Telegraph Company offered Troy the opportunity to join their company as a Right-of-Way Specialist and he remained with them through the NYNEX, Bell Atlantic and Verizon era eventually being named Verizon's Lead Network Engineer for Maine, New Hampshire and Vermont.

While employed at the phone company, Troy held various positions in the Outside Plant Engineering Organization and was responsible for overseeing the Right-of-Way Department, CATV-3rd Party Licensing Agreements, Pole Audit Surveys, Contract Work Administration, Reimbursable Construction, and Outside Plant Engineering. In his final years at Verizon, as their Joint Lines Specialist & Regulatory Support, Troy was responsible for overseeing the contractual relationship with 40+ power companies in Maine, New Hampshire and Vermont and supported Verizon's Regulatory Organization before the Public Utilities Commission in all three States. It was during his 10 years at the phone company that Troy developed a professional relationship with Northeast Civil Solutions, Inc. (NCS) and secured the services of NCS for numerous projects including pole audit surveys, pole surveys for the deployment of FTTP, right-of-way negotiations, remote terminal site easements and a variety of other projects requiring surveying and engineering services.

Troy returned to the private sector in 2007 as a Director of Marketing & Business Development, with a focus on serving the pole plant industry. Following a promotion to Vice President of Surveying, in 1Q-2010, Troy was named President of ORION Telcom Services, a Telcom Consulting firm which specialized in GIS mapping, GPS location surveys and data collection projects to assist public utilities in meeting the requirement of various Maine PUC Dockets.

In 2012, Troy accepted a position at NCS as Executive Vice President, with a focus on expanding on the work the company has performed over the years for the electric transmission and distribution industry, land-line and wireless communication clients and projects within the federal, state and municipal sector.



M. Johann Buisman, PLS

Vice President - Surveying

Education:

Red Rocks College
Lakewood, CO

- *B.S. Civil Engineering*

Maine Technical Source
Yarmouth, ME

- *Advanced GPS Methodology & Application*

Registrations:

Professional Land Surveyor:

- Maine # 1314
- New Hampshire # 862
- Colorado # 23878

Memberships:

- *Maine Society of Land Surveyors (MSLS)*
- *New Hampshire Society of Land Surveyors (NHSL)*
- *Past President – Narragansett Chapter of Maine Society of Land Surveyors*
- *National Society of Professional Land Surveyors (NSPS)*
- *American Congress of Survey and Mapping (ACSM)*

Maine Society of Land Surveyors Awards:

- *1988: Land Title Survey*
- *1989: Boundary Survey*
- *1990: Land Title Survey*
- *1990: Boundary Survey*
- *1992: Land Title Survey*
- *2004: Boundary Survey*
- *2005: Land Title Survey*

Mr. Buisman has over 32 years' experience in the land surveying and engineering profession. After obtaining his first professional land surveyor's license in 1986 from the State of Colorado, Johann continued his passion with the art of accurate data collection, analysis and resolution by securing his Maine land surveyor's license in 1987 and his New Hampshire land surveyor's license in 1997.

Upon Johann's arrival in Maine in the 80s he was placed in charge of numerous crews within a multi-discipline architectural, engineering and land surveying firm. His knowledge of surveying, combined with a requirement of accurate data collection by his direct reports, was quickly recognized by the company's stock holders. As a result Johann was promoted to Vice President of the surveying department early in his career and he focused his energies on the science of quality control and customer satisfaction.

In 1992, Johann and the current President of Northeast Civil Solutions, Inc. (NCS) partnered and purchased the Maine division of company they helped build. Johann retained the title of Vice President – Surveying, staying true to his passion to provide NCS clients with accurate data collection and a deliverable that meets their survey needs. Johann has been recognized for his ability to listen to the client and develop a survey process that ensures a quality product is delivered on-time and on-budget.

Not long after purchasing the company, Johann expressed a desire to provide professional services to the pole plant industry. New England Telephone & Telegraph Company, Central Maine Power Company and Florida Power & Light Company all recognized his talent and commitment and have been long standing clients. Johann's attention to detail, knowledge of GPS methodology and application and the use of the latest data collection equipment and software were key factors in NCS being selected as the vendor of choice for Verizon - New England for the pole audit survey & Fiber to the Premises (FTTP) program. Due to his knowledge of GPS application NCS was also awarded the GPS data collection contract to obtain latitude and longitude positioning on telecommunication central offices and remote terminal sites in all 140 exchanges within the Verizon – Maine serving territory. Johann's GPS data set was used to create 140 individual GIS maps delineating Verizon's exchange boundaries due to Maine PUC docket requirement.

In addition to the public utility sector, Johann has established a reputation for delivering accurate and reliable data associated with high-profile projects. As a direct result of Johann's commitment to quality and providing a timely deliverable, NCS was selected to provide professional services on projects for the U.S. Coast Guard and the Department of the Navy as well as being named the data collection vendor for numerous prime contractors who hold IDIQ contracts with various branches of the military.

