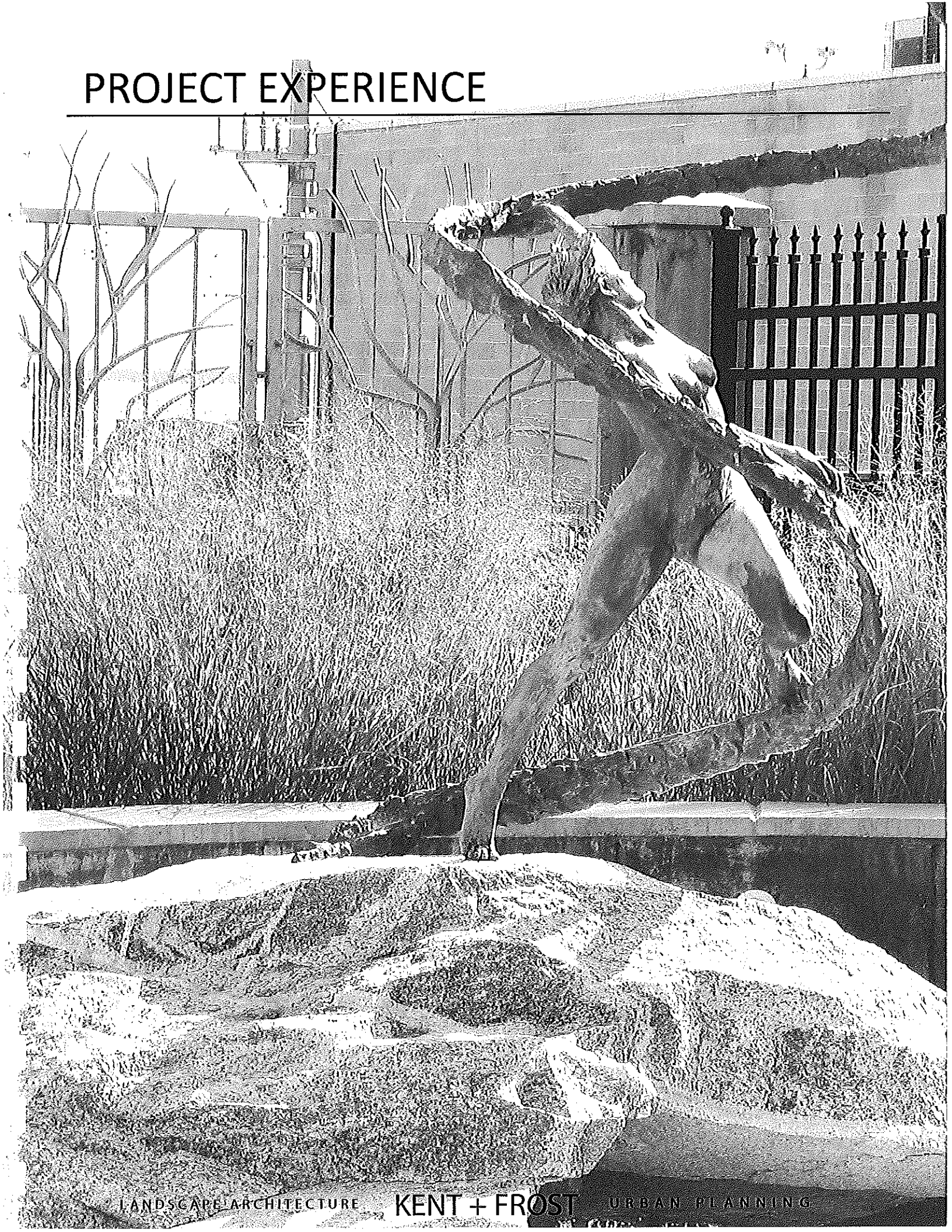


PROJECT EXPERIENCE



LANDSCAPE ARCHITECTURE

KENT + FROST

URBAN PLANNING

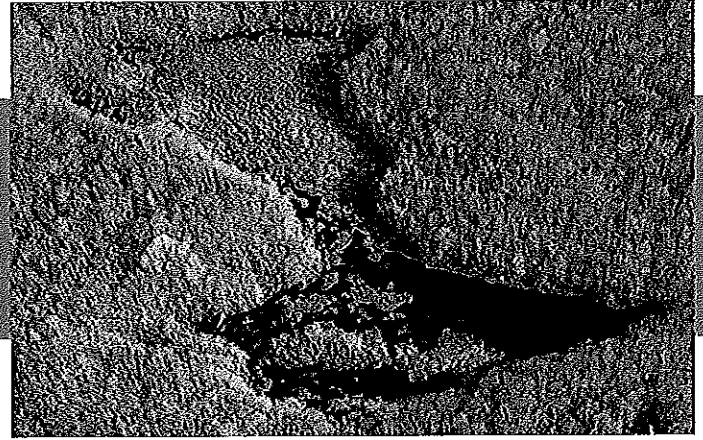
Beebe Pond Park Trail Improvements

Project Type:	Trail Improvements
Size:	163 Acres
Use:	USFS Hiking Trail
Completion:	Drawings 2013, Construction 2014

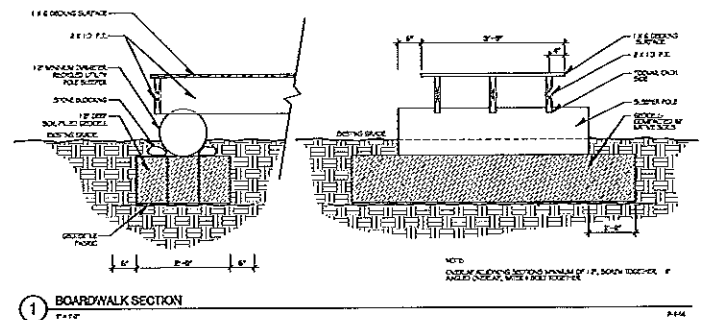
Contact: Mark Berry, Director of Parks and Recreation, Groton CT, (860) 536-5680

The Town of Groton engaged Kent + Frost to design trail improvements to the Beebe Pond Town Park. Beebe Pond Park is a unique environmental and cultural asset within the Town. Due to its distinctive and nearly isolated drainage area, and a surface that is full of glacial erratics the areas only historical use was for ice ponds years ago. The stone foundations of the ice factories, formed from the onsite erratics, are very visible and provide a unique experience, and view into the past.

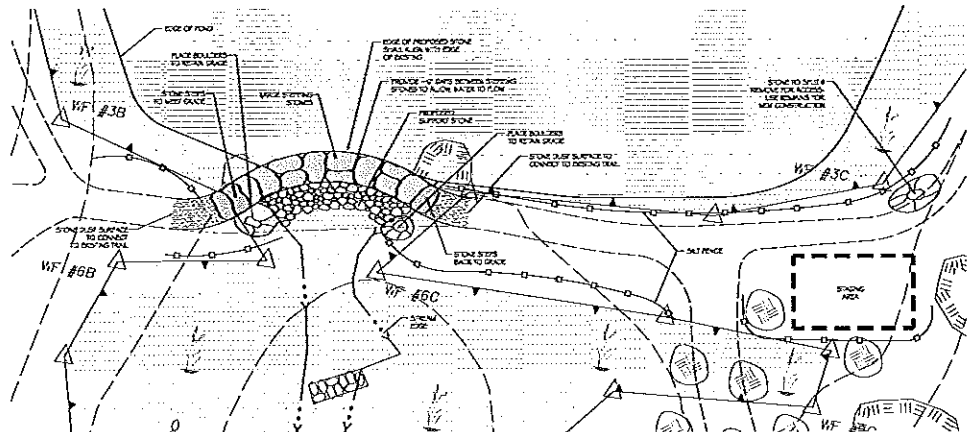
K+F was selected to design the trail improvements based on our approach to sensitively weave the new trail (including bridges, boardwalks and rock features) into the environment without causing disturbance to the scenic beauty of the park and place. In order to accomplish this K+F had to employ unique trail designs, construction techniques and tightly written specifications to ensure the contractor(s) could successfully complete the project.



Example of Existing Trail on Property



Existing Impoundment Breach



Impoundment Breach Improvements

G & S Trolley Trail Phase One

Project Type: Greenway/Historical Multi-use Trail
 Size: .75 Mile
 Use: Recreation & Bike/Ped Transportation
 Completion: 2009

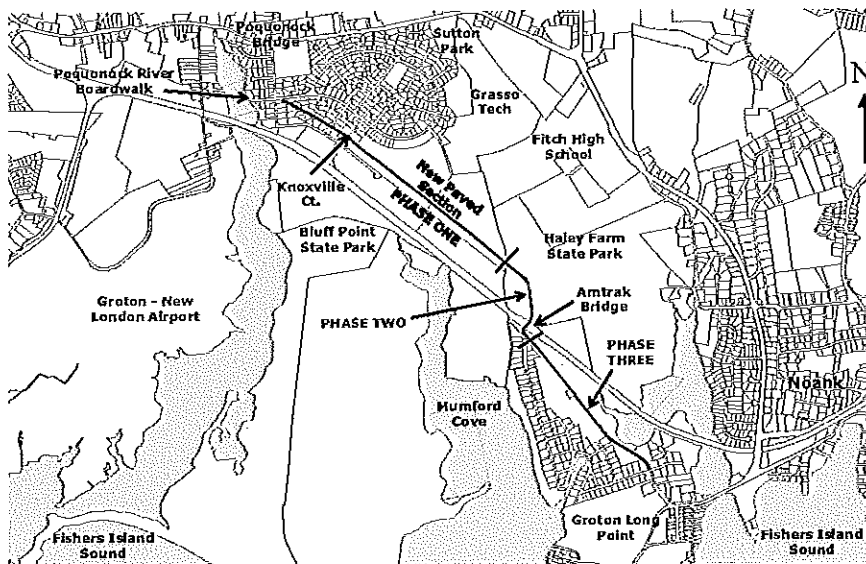
Contact: John Silsby, Director of Recreation & Parks. (860) 536-5680
 JSilsby@town.groton.ct.us

The first phase of this multi-use trail was completed in 2009. Kent + Frost master planned the 2.5 mile corridor and identified the separate phases based on anticipated grant funding. Phase One's 4000 LF of bituminous concrete provides a scenic and convenient route for cycling commuters as well as a pleasant recreational trail for residents and visitors.

Kent + Frost in collaboration with the Town's Public Works department facilitated permitting and designed the facility. Features include a prototype entry point and signage that will serve as a standard for future phases and other trails in town.



The G&S Trolley Trail



**TROLLEY
 TRAIL**
 c. 2009

Groton &
 Stonington Railway
 Company

The
G&S

Operated electric trolleys on
 this line from the Thames
 River to Westerly, RI

1904 to 1928

Historic marker design

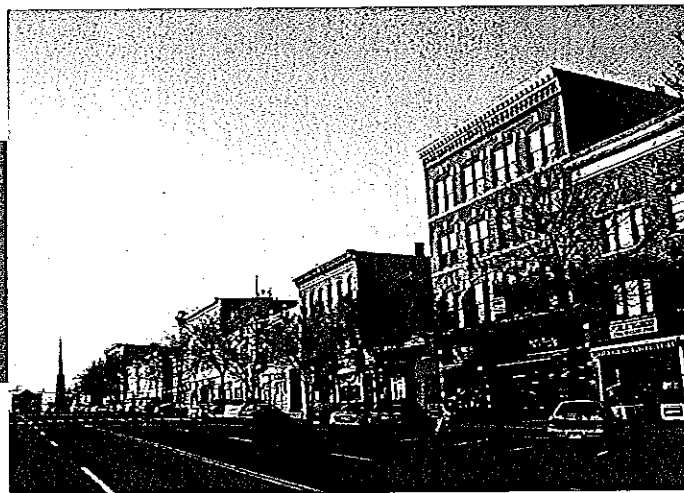
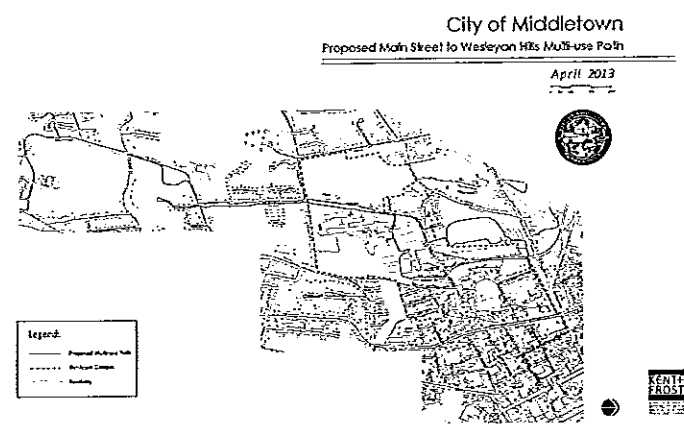
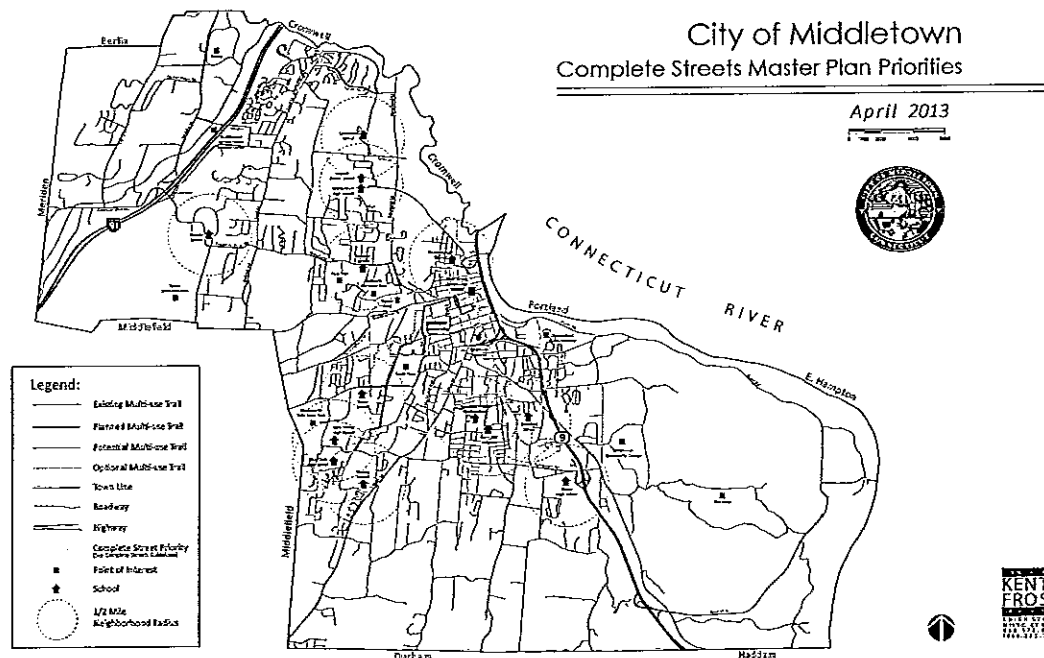
City of Middletown, CT Complete Streets Master Plan

Project Type: Master Plan

Completion: April 2013

Contact: William Warner, Director of Planning, (860) 638-4840

Kent + Frost was selected to prepare the Middletown, CT Complete Streets Master Plan in 2012. The goal of the plan is to incorporate Complete Streets principles into the standard operating procedures of all City departments concerned with health, safety, economic development and recreational activities. The plan recommends measures that will increase the capacity of streets to safely carry pedestrians, bicyclist, transit and all motor vehicles. It focuses on the needs of children and the potential for Safe Routes to School programs. A priority map identifies streets with greatest need for improvement. Other aspects of the plan describe successful initiatives in other communities, potential funding sources, and establishes a vision and mission statement for the City's Complete Streets Committee.



Rail Trail Study in N. Hampton, MA



Main Street in Middletown

Ocean Beach Park Nature Trail and Gateway Garden

Project Type: Community Park
Size: 45 Acres
Use: Multi-Use Recreation
Completion: 2006

Contact: David Sugrue, Manager Ocean Beach Park. (860) 447-3031

Funded by a Connecticut DEP grant, this coastal access project contributes to New London's renewed interest in its long neglected beachfront park.

Beginning at the southern tip of the existing boardwalk, a 400-foot long handicap accessible stone dust trail winds through mounded plantings of native grasses, Bayberry, Beach Plum and Rugosa Rose. An elevated platform rises above the surrounding Bayberry colonies revealing a striking panorama of Long Island Sound, Alewife Cove and Harkness State Park. The site had been degraded over the years by unrestricted access, dumping, vandalism and invasive plants.

Native plants were relocated during construction to degraded areas along the path without the expense of new landscaping.

Kent + Frost was contracted by the City of New London to design the project and to provide construction oversight. The project has evoked great affection from the community, demonstrated by significant contributions of labor and construction materials from local businesses and individuals.



Native Plant Relocation



Relocated plants after one season



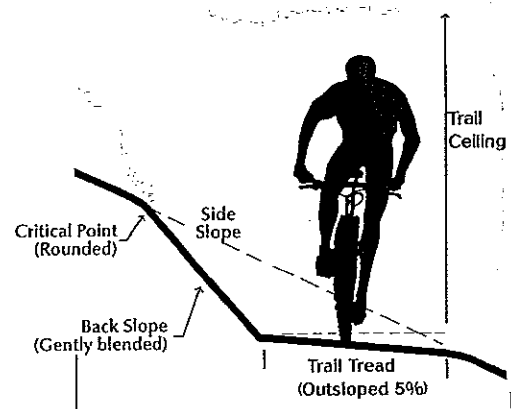
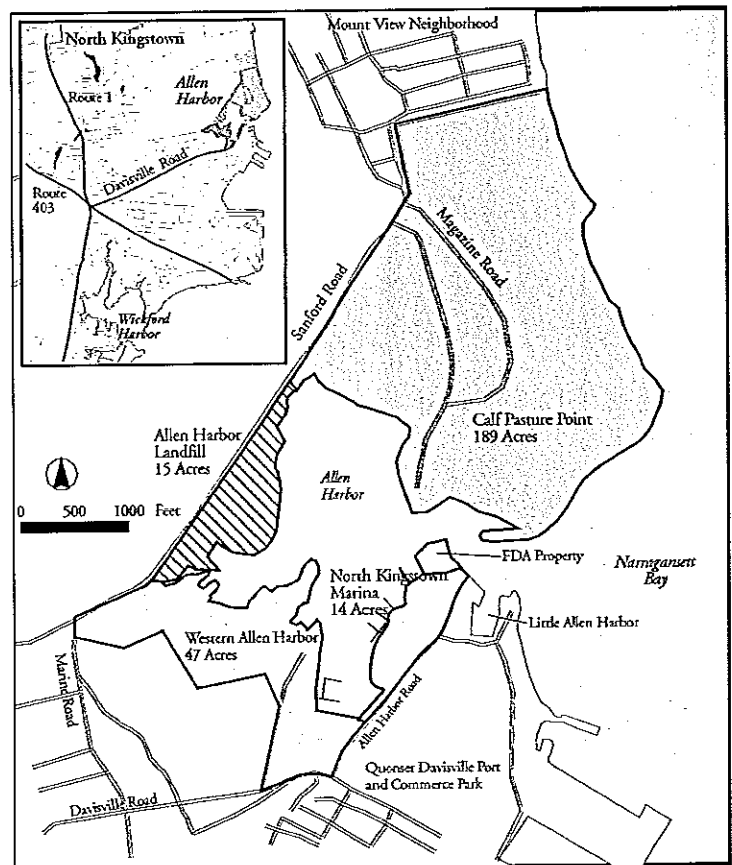
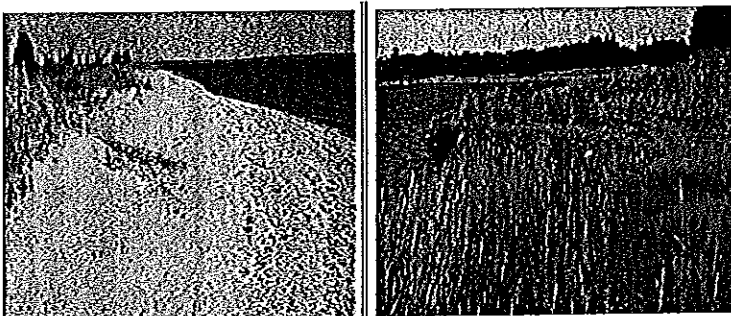
Calf Pasture Point Master Plan

Project Type:	Community Park
Size:	189 Acre Brownfield Site
Use:	Passive Recreation
Completion:	Phase One - 2009

Calf Pasture Point is a 189-acre Brownfield open space occupying a peninsula bordered by the Narragansett Bay and Allen Harbor at the former Quonset Point Naval Air Station, North Kingstown, RI. Kent + Frost was selected by the Town of North Kingstown to master plan a new municipal park for passive recreation on the site. The Master Plan was completed in 2004 and includes multi-use trails, shore access, parking and pedestrian access.

Serious environmental constraints limited the development options to passive recreation. Extensive wetlands required close coordination with CRMC, Navy and the Town. K+F devised a system of thematic multi-use trails to provide access to the beach, adjoining neighborhood and distinctive natural areas. Natural Resource Services, Inc. provided assessment and delineation of wetlands in areas of proposed trail development. NRS also assisted in coordination with CRMC.

Town residents and neighbors provided important input and were involved in the planning process. The entire master plan is viewable on the town's web site.



Groton Bike/Pedestrian & Trail Master Plan

Project Type:	Town-Wide Master Plan
Size:	25 Square Miles
Use:	On-Street Bike Facilities, Sidewalks and Trails
Completion:	2005

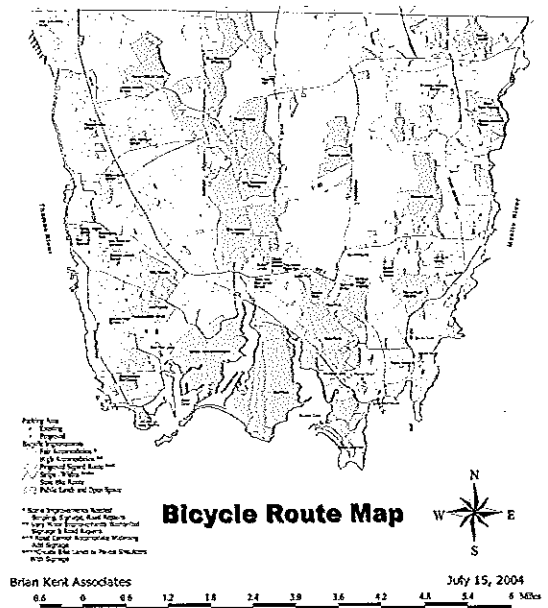
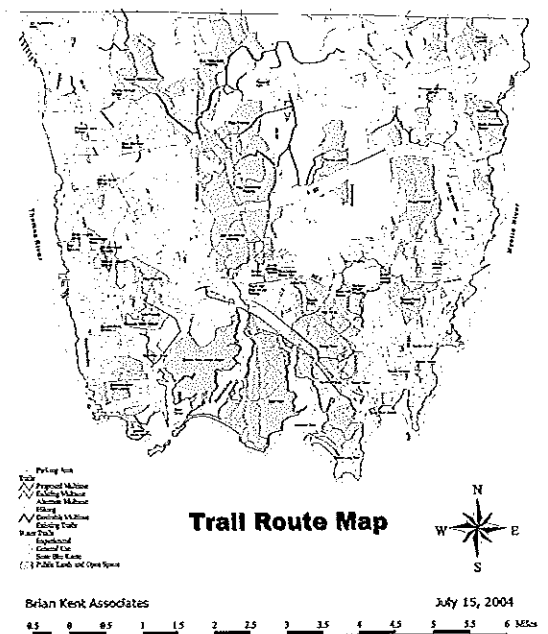
Contact: Jerry Lokken, Manager of Recreation (860) 536-5680
JLokken@town.groton.ct.us

Groton, CT's updated Plan of Conservation and Development recommended preparation of a comprehensive trails master plan in response to citizen input and the Town's considerable open space holdings.

Kent + Frost was contracted by the Town to prepare a master plan that integrated trails, sidewalks and on-street bicycle facilities. Bicycle commuter routes were planned to connect destinations like schools, parks, commercial areas and neighborhoods utilizing bike lanes and multi-use trails. A Gap Analysis identified missing sidewalks and mapped needed segments.

Public input was gathered through meetings and a highly successful opinion survey. The completed plan includes G.I.S. mapping that fully integrates with the Town's data base, a project priority matrix, budget estimates and design guidelines.

The master plan has become a highly effective tool for the Town's Planning Department and has facilitated grants for project implementation.



Groton Comprehensive Parks & Recreation Master Plan

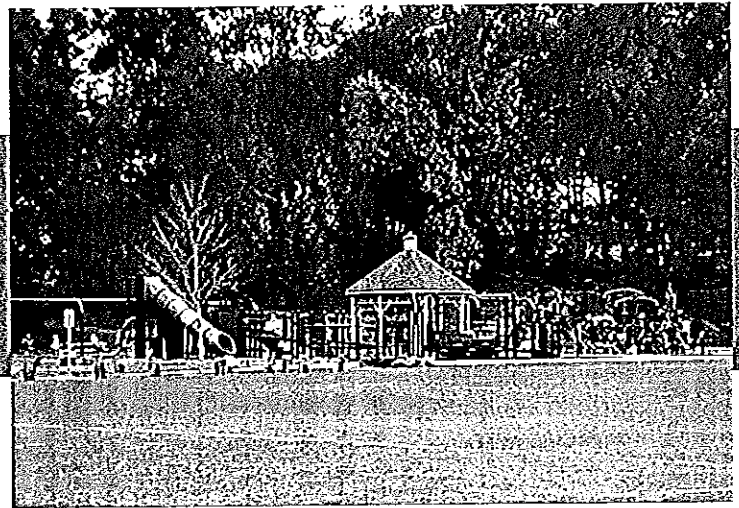
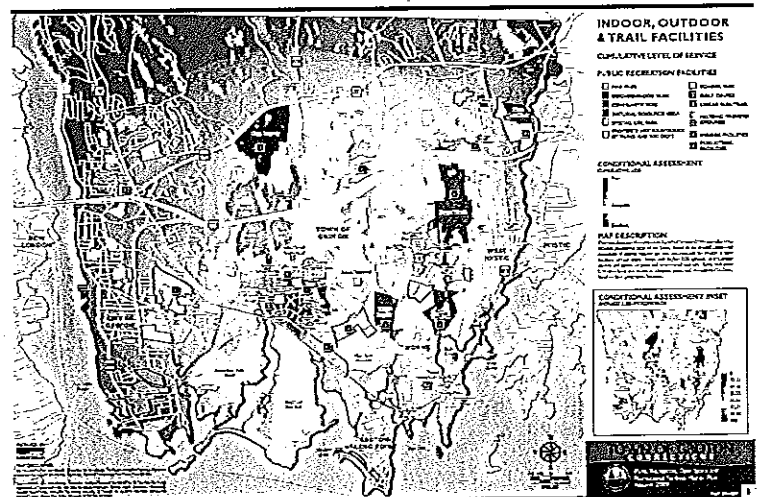
Project Type: 20 Year System Master Plan
 Size: Town-Wide
 Use: Parks and Recreation System
 Completion: 2009

Contact: Jerry Lokken, Manager of Recreation (860) 536-5680
 jLokken@town.groton.ct.us

Groton, CT's Parks & Recreation Department had operated for over twenty years without a guiding master plan. The distinguished and award-winning department finally acquired funding for the study in 2008. Kent + Frost and Norris Design of Denver, Colorado were selected from a short list of national experts to prepare the Plan.

The Groton planning process represents the cutting edge of recreation planning in the United States. Kent + Frost provided detailed local knowledge of existing sites and facilities and is author of the Plan's Facilities Inventory and Conditional Assessment. Norris Design has combined its expertise in recreation planning with Geographic Information System analysis to create Level of Service Maps that illustrate the geographic strengths and weaknesses of the existing system.

As an extension of the system plan, the two firms have collaborated on development of a master plan for Groton's Sutton Community Park.



Mystic Community Bikes

A Grass-roots Bicycling Advocacy Organization founded in 2008. Operates a successful Bike-Share System

Mystic Community Bikes was founded by a small group of Mystic area residents including Brian Kent. The guiding force was a commitment to changing the car-centric environment in Mystic where congestion and parking shortages diminish the local quality of life.

Now in it's fifth season, the Bike Share Mystic program has been a resounding success. Over 40 bikes are spread among ten distribution centers in the central district, at marinas, hotels and cultural institutions. Bikes are donated, refurbished and maintained by board members and volunteers.

MCB's success has helped to spur its sister organization, Bike New London, which launched its bike share program in spring of 2012.

Brian Kent has been active in the MCB organization and has used his expertise as a planner to advocate for a more bike-friendly environment in mystic and its parent municipalities - Groton and Stonington.



Project Experience

Client

Carol R. Johnson Associates, Inc.

Owners

National Park Service

Completion Date

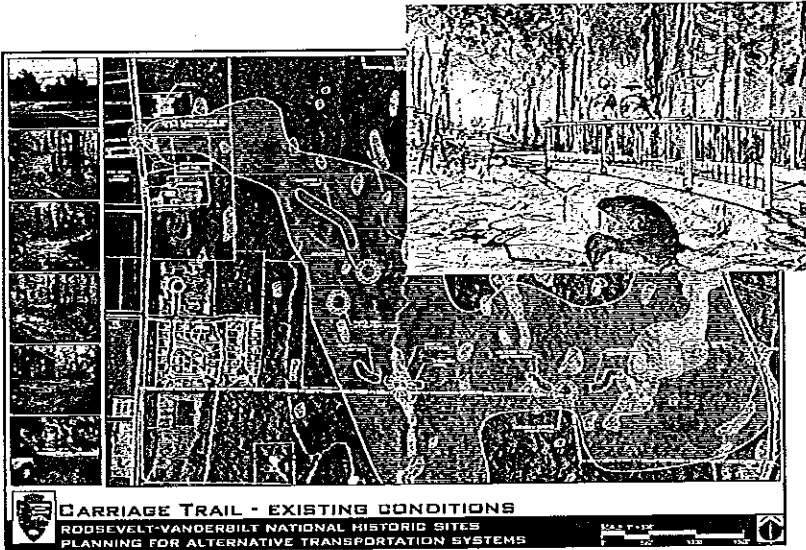
November 2008

Project Cost

\$1,600,000

Scope of Services

- Conceptual Planning
- Topographic Survey
- Hydrologic & Hydraulic Analyses
- Site/Civil Design
- Drainage Design
- Federal, State and Local Permitting
- Construction Documents
- Cost Estimates
- Inspections
- Construction Administration

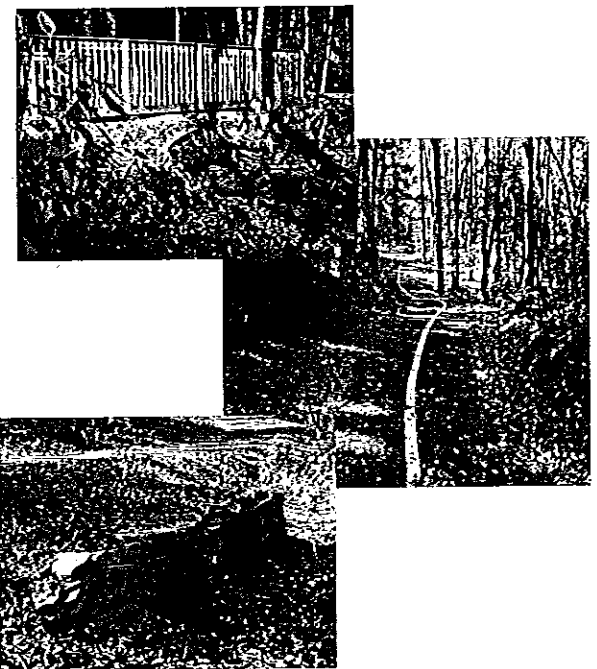


ROOSEVELT FARM LANE

The restored Roosevelt Farm Lane which links the Eleanor Roosevelt National Historic Site (Val-Kill) with the Home of Franklin D. Roosevelt offers visitors an exciting new interpretive and recreational experience through FDR's tree plantation (trail length: approximately two-miles).

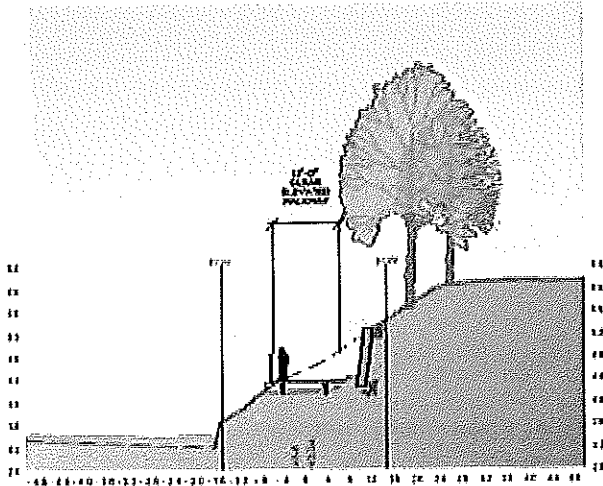
The project initiated with a study and analysis of the existing natural and cultural resources as it passed through a variety of upland and wetland habitats, the feasibility of different users, viewsheds, and vegetation management. A major challenge was to make the path ADA accessible by applying modern engineering design techniques and standards since it is the desire of the NPS and its Partners to keep the alignment of the route unchanged from the days when traversed by FDR himself. Various surface treatments were used to maintain its original character - gravel on the flat grades and paved/chip sealed on the steeper ones.

Site/Civil Planning, Engineering and Permitting services were provided for the development of the trail through a sensitive 335 acre site consisting of approximately 10,000 feet of "improved" surface path, 20 culvert crossings and one historic bridge crossing. The Project design tasks included a design charrette to determine trail widths, path and bridge options; pre and post hydrologic and hydraulic analyses to provide for storm water quality and control; design of the trail's horizontal and vertical alignment, grading, and paving. Several of the drainage crossings at sensitive wetland areas included amphibian access. Design of a pedestrian/light vehicle bridge; at the location of the historic bridge was accomplished by installing a new span over the remains of the historic bridge left in place. An integral part of the project was to prepare and support the inland wetland permitting process for both Federal (ACOE) and State reviewing agencies.



This project is illustrative of staff's experience prior to Stadia Engineering Associates, Inc.





SECTION 6+00 CONCEPT 'A'

QUINNIPIAC RIVER TRAIL SENIOR CENTER EXTENSION

The Town of Wallingford, Connecticut is in the midst of developing a trail system that will parallel the Quinnipiac River creating an important community and regional asset. The Trail will connect with a trail coming out of North Haven and will tie into the trails namesake in Meriden. The Quinnipiac River Trail will eventually join a larger river trail system, part of a vast network of bicycle / pedestrian paths, ultimately connecting to the East Coast Greenway, stretching from Maine to Florida.

This section of trail is a spur that will come off of the main trail at the Hall Avenue crossing and connect the Town's Senior Center on Silk Street to this important community asset. The spur itself is a short 1,700-foot long trail that crosses the Quinnipiac River at the Hall Avenue bridge and passes along the backside of the White Way Cleaners in between the facility and Community Lake.

The project studied the most economical means to construct the path proposing a combination of the path on a cut and fill embankment and a boardwalk constructed on piers to traverse the tight and difficult slope.

Client

Town of Wallingford

Completion Date

2004

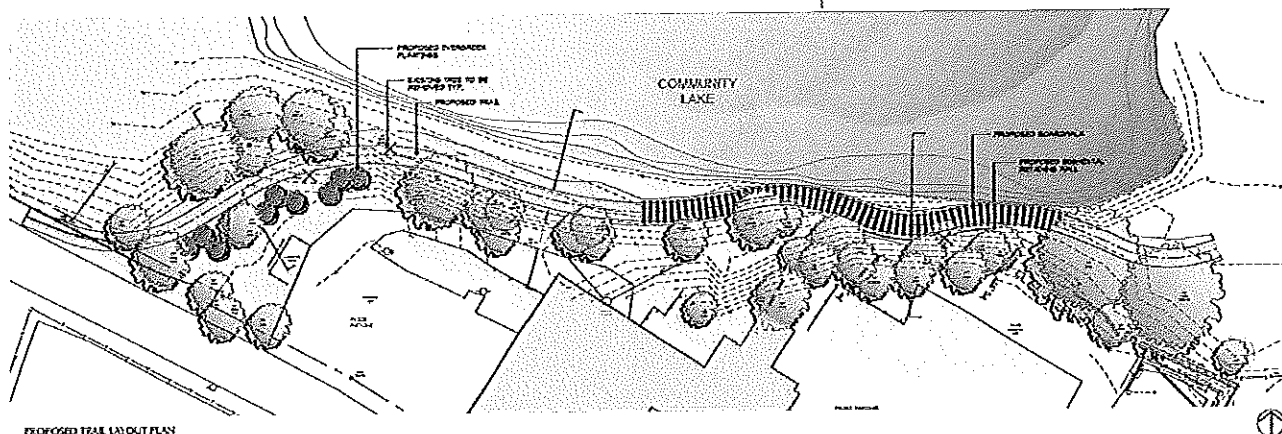
Project Cost

\$10,000 (fee)

Scope of Services

- Conceptual Planning
- Federal, State and Local Permitting (research)
- Cost Estimates

This project is illustrative of staff's experience prior to Stadia Engineering Associates, Inc.



PROPOSED TRAIL LAYOUT PLAN



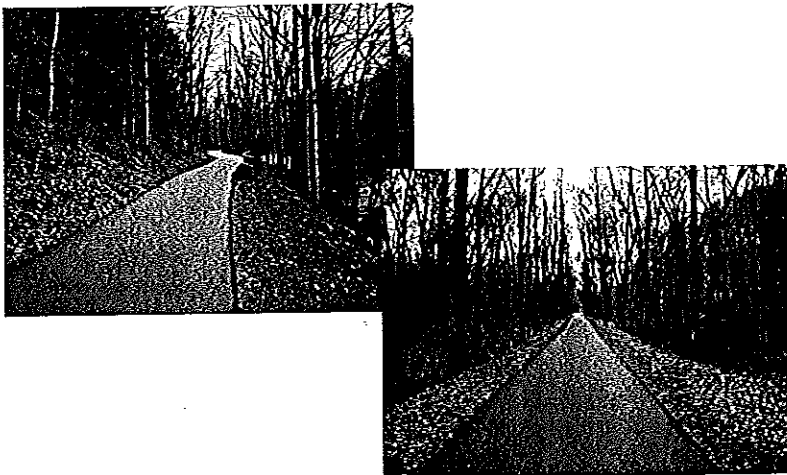
Project Experience



QUINNIPIAC RIVER GORGE TRAIL

The City of Meriden, Connecticut developed this trail as an important community and regional asset. The Trail will eventually join a larger river trail system, part of a vast network of bicycle / pedestrian paths, ultimately connecting to the East Coast Greenway, stretching from Maine to Florida.

This section of trail, approximately 7,000 feet long, follows an abandoned trolley bed that traverses a natural geologic phenomenon, the "Quinnipiac Gorge." The trail begins at Oregon Road (site of the Red Bridge – listed on the Register of Historic Places by the National Park Service) and heads west terminating just prior to the Cheshire town line. The trail follows the old railbed, meandering along the Quinnipiac River through the Gorge created by years of erosive action by the river on the highly erosive siltstone bedrock. Amenities along the way include scenic overlooks used as rest areas or observation points and access ways to the river for fisherman. This popular trail attracts hikers, naturalist, sportsman as well as the casual walker and families.



Client

City of Meriden

Completion Date

Fall 2003

Project Cost

\$700,000

Scope of Services

- Conceptual Planning
- Topographic Survey
- Hydrologic & Hydraulic Analyses
- Site/Civil Design
- Drainage Design
- Federal, State and Local Permitting
- Construction Documents
- Cost Estimates
- Inspections
- Construction Administration

This project is illustrative of staff's experience prior to Stadia Engineering Associates, Inc.



QUALIFICATIONS

LANDSCAPE ARCHITECTURE

KENT + FROST

URBAN PLANNING

BRIAN KENT

PLA, ASLA

Brian Kent is a landscape architect and founding principal of Kent + Frost Landscape Architecture, located in Mystic, Connecticut. He began his career in Athens, Georgia after graduating from The UGA School of Environment Design in 1984. While practicing in Georgia, he worked on plans for the 1996 Atlanta Olympic Games, National Park Service cultural landscapes, campus planning, urban streetscapes, parks, greenways and public gardens. Since relocating to Connecticut in 1998, his work has encompassed parks and recreation planning, mixed-use master planning, trails and greenway design, public and private gardens.

His professional work is based on solid research and analytical techniques that integrates environmental, social, economic, and operational requirements. He has particular expertise in physical master planning techniques, land assessment, grounds management, and use of design guidelines. Brian's experience provides him with a broad understanding of multi-discipline project management and he routinely works with architects, engineers, contractors, natural scientists, resource managers, state, and local officials, nonprofit organizations, and building committees. He is a registered landscape architect in Connecticut, Rhode Island and Massachusetts.

As a founding board member of Mystic Community Bikes, a nonprofit bike-share and advocacy group, he is an advocate for sustainable communities that incorporate multi-modal transportation solutions, environmentally friendly development and historic preservation.



Kent + Frost, LLC
Landscape Architecture
1 High Street
Mystic, CT 06355

T (860) 572-0784
bkent@kentfrost.com
www.kentfrost.com



Education

Bachelor of Landscape Architecture - University of Georgia 1984
Sigma Lambda Alpha, National Honor Society of Landscape Architects

Professional Practice

Partner, Kent + Frost Landscape Architecture
Principal, Brian Kent Associates
Landscape Architect, Robinson Fisher Associates, Athens, Ga.
Landscape Architect, Jordan Jones & Goulding Engineers, Athens, Ga.
Landscape Architect, John Edgar Associates, Baton Rouge, La.

Professional Registrations & Credentials

Professional Landscape Architect:
Connecticut #876
Rhode Island #345
Massachusetts #1553
American Society of Landscape Architects
Association of Pedestrian & Bicycle Professionals

Academic Experience

Faculty, University of Georgia Center for Continuing Education, *Introduction to Landscape Design*
Lecturer, Connecticut College, *Environmental Sustainability*

Community Participation

New London Landmarks, Inc. Board Member
Mystic Community Bikes, Inc. Board member
Mystic Multi Modal Transportation Study Advisory Committee
Denison Pequotsepos Nature Center, former board member
Athens, Ga. Urban Tree Council, former board member

Lectures and Presentations

Sustainability in Landscape Design - Mystic Seaport Garden Days, August 2009
Groton Parks & Recreation Master Plan and Sutton Park Master Plan - Groton Rotary Club, July 2009
Calf Pasture Point – History and Planning Process, North Kingstown, RI
The G & S Trolley Trail – History, Planning Process & Potential, Groton, CT

Current Conditions & Opportunities for Bike/Ped advocacy in SE Connecticut, December 2009

Publications

- Kent, Brian *Hygienic Art Park*, CT Landscape Architecture magazine, October 2010
- Kent, Brian *Hygienic Art Park*, Landscape Architect and Specifier News, April 2009
- Kent, Brian *The Cost of Sprawl*, New London Day

Notable Projects

Hygienic Art Park, New London, CT
Ocean Beach Alewife Cove Trail, New London, CT
Bike, Pedestrian & Trail Master Plan, Groton, CT
System Master Plan, Groton Parks & Recreation
G & S Trolley Trail, Groton, CT
Capitol Avenue Streetscape, 1996 Atlanta Olympic Games Stadium Promenade
Folk Art Park, Downtown Atlanta, GA

Honors and Awards

Award of Excellence from the American Society of Landscape Architects, Connecticut Chapter for the *Hygienic Art Park* 2010
Winner, Competition for design of the *Clarke County Veterans Memorial Plaza* 1986
Awards with Robinson Fisher Associates:
Honor Award from the American Society of Landscape Architects, South Carolina Chapter, and **Conservation Award** from the South Carolina Wildlife Federation for a metropolitan river corridor and recreation study 1991
Meritorious Project Award from the American Planning Association and **Honor Award** from the American Society of Landscape Architects, GA Chapter, for master planning of *Lenox Park*, Atlanta's largest in-town planned, mixed use community 1990
Honor Award from the American Institute of Architects, GA Chapter, and the Georgia DOT for the *Capitol Avenue Streetscape* Atlanta 1996
Award of Excellence from the Atlanta Urban Design Commission for the *Folk Art Park*, a non-traditional park showcasing regional folk art 1996
Merit Award from the American Society of Landscape Architects, Georgia Chapter, for an ecologically based garden at the UGA 1998



CHAD FROST

PLA, CTGBC

Chad Frost is a landscape architect and principal with Kent + Frost Landscape Architecture, located in Mystic, Connecticut. Upon graduation from the University of Connecticut he began his career in Avon, Connecticut. While practicing in Avon, he worked on plans for university & college campuses, medical institutions, parks, and public performance gardens. Since joining Kent + Frost, his work has encompassed mixed-use developments, urban streetscapes, waterfront developments, public parks, trails and greenway design, public and private gardens.

Chad practices landscape architecture as the creation of social art, founded on skillful analysis, blended with architectural aesthetic and environmental sensitivity to create living spaces that enrich our lives. With keen respect for the essence of place, he responds to client aspirations with craftsmanship attention to detail.

His dedication to the preservation of the environment, and the principals of sustainability are embodied in all of his work. Chad is known for his artful integration of sustainable methodologies that lead to beautiful and functional spaces that enhance environmental quality, and connect people with their surroundings. His particular expertise has been instrumental in the firm's innovative design solutions to complex physical, fiscal and regulatory challenges.

Creating meaningful and memorable environments to enhance our cultural and ecological relationship with nature.



Kent + Frost, LLC
Landscape Architecture
1 High Street
Mystic, CT 06355

T (860) 572-0784
cfrost@kentfrost.com
www.kentfrost.com



Education

Bachelor of Science - Landscape Architecture - University of Connecticut 1999

Professional Practice

Partner, Kent + Frost Landscape Architecture

Landscape Architect, Brian Kent Associates, Mystic CT

Adjunct Faculty, University of Connecticut

Landscape Architect, Richter & Cegan Avon CT

Assistant Landscape Architect, Sarah McCracken, Lyme CT

Professional Registrations & Credentials

Professional Landscape Architect in Connecticut #952

Connecticut Green Building Council

Academic Experience

Adjunct Faculty, UCONN, *Construction III, Materials & Methods (2012)*

Adjunct Faculty, UCONN, *Golf Course Design (2008 & 2009)*

Community Participation

Connecticut Green Building Council – Advisor to the Board of Directors

Bluff Point to Preston Trail Committee

Lectures and Presentations

Sustainability in Landscape Design – LEED Certified Home – Channel 3 News, April 2009

Groton Parks & Recreation Master Plan and Sutton Park Master Plan - 2009

Tri-Town Trail – Future potential - 2009

Awards

CTASLA, Award of Excellence, Hygienic Art Park, 2010

BAEC, Home of the Year, 2006

Publications

LEED Homes, New London Day. Nov. 2008

Notable Projects

Mystic Seaport Master Plan, Mystic, CT

Connecticut College – Smith Burdick Quad, New London, CT

Ledyard Town Green, Ledyard, CT

Mitchell College Student Center, New London, CT

Tri-Town Trail, Groton-Ledyard-Preston, CT

Allen Spool Mill Restoration, Stonington, CT

Coast Guard Alumni Center, New London, CT

Coca-Cola, Waterford, CT

Ocean Marine Yacht Center, Portsmouth, VA

Hygienic Art Park, New London, CT

Bike, Pedestrian & Trail Master Plan, Groton, CT

System Master Plan, Groton Parks & Recreation

G & S Trolley Trail, Groton, CT

University of Connecticut, Neag School of Education & CUE Building, Storrs, CT

University of Connecticut, Advanced Technology Institute Building, Storrs, CT

Norwalk Community College, West Campus, Norwalk, CT

Harold Leever Regional Cancer Center, Waterbury, CT



ACTIVE REGISTRATIONS:

- Registered Land Surveyor – State of Connecticut

RELEVANT EXPERIENCE RECORD:

Mr. Rossman is a Licensed Professional Land Surveyor with over 20 years of experience in all aspects of land surveying, including extensive experience in boundary surveys, route surveys, land title dispute resolution, topographic and bathymetric surveys, photogrammetric survey control, residential & commercial development, construction layout & inspection, survey project management and business development related to professional services for private consulting firms, developers and governmental clients. Mr. Rossman also has vast experience in construction and engineering implementation for all types of improvement projects including transportation, structural, environmental and commercial development, residential development, industrial machine control, construction management and regulatory compliance. He provides oversight in the preparation of design plans, specifications, survey and construction documents, and reports, as well as permit applications for Federal, State and Local approvals.

Boundary/Topographic Surveys:

Project Surveyor for the boundary, topography and facilities mapping of the West Haven campus of the University of New Haven, including ongoing construction, engineering design, and utility surveys.

Project Surveyor for campus facilities mapping of large-scale corporate properties to be used for management and planning purposes – Pfizer, Goodyear, ESPN, Pratt & Whitney, Sikorsky, Lockheed/Martin.

Project Surveyor for the acquisition of several properties by the U.S. Fish and Wildlife Service in Connecticut, Rhode Island and Massachusetts pertaining to littoral boundary issues and the establishment of GPS control networks.

Project Surveyor for several Department of Environmental Protection boundary surveys for the acquisition various properties throughout Eastern Connecticut.

Route Surveys:

Project Surveyor for Stamford Urban Transitway Project existing conditions, topographic & utility mapping and the computer drafting & preliminary design modeling in Stamford, Connecticut.

Project Surveyor for existing conditions survey of the Rails to Trails conversion of The New York, New Haven & Hartford Railroad Company right of way crossing Connecticut Route 10 in Simsbury, Connecticut.

Project Surveyor for the engineering design survey and drainage system condition survey for a section of Interstate 395 at the Connecticut Route 2A connector for proposed ramp and drainage improvements required for the Mohegan Sun Casino.



Construction Surveys:

Project Surveyor for the layout of construction activities, riparian improvements and off-site improvements for the Brooklyn/Danielson Hydroelectric Facilities situated on the Quinebaug River and Five Mile River in Brooklyn, Connecticut.

Project Surveyor for the layout of high-speed rail & electricification improvements along the Amtrak/Metro North railway from Bridgeport through Greenwich and within the terminal yard at Union Station in New Haven, Connecticut.

Project Surveyor for several large and small construction projects at The Mohegan Sun Casino and for The Mohegan Tribe of Indians of Connecticut reservation and non-trust properties in Montville, Connecticut.

Environmental Surveys:

Project Surveyor for the Groton Long Point inundation study and beach improvement project in Groton, Connecticut.

Project Surveyor for the layout and implementation of the phytoremediation systems for an orphan landfill in Logan, Ohio and the Lockheed/Martin Nuclear Enrichment Facility in Portsmouth, Ohio.

Project Surveyor and Construction Manager for the cleaning and demolition of several waste oil incineration ponds at the Coastal Refinery in El Dorado, Kansas.

Project Surveyor for the GPS control survey of the Motor Wheel Disposal Site monitoring well network throughout the City of Lansing, Michigan.

Project Surveyor for the GPS control survey of the IBM Production Center monitoring well network throughout the City of Endicott, New York.

PROFESSIONAL AFFILIATIONS:

- Connecticut Association of Land Surveyors – CALS
- American Congress on Surveying and Mapping
- National Society of Professional Surveyors

PROFESSIONAL CERTIFICATIONS:

- Certification for OSHA 29 CFR 1910.120 Hazardous Waste Operations

PUBLICATIONS:

- Rossman, James V. - co-author, Madson, On Connecticut Real Property Boundary Law, Gainesville, Florida, LSS Publishing Company, 1989.



EDUCATION:

- Masters of Science in Civil Engineering, 1980
University of Connecticut
- B.S. in Civil Engineering, 1974
Merrimack College, N. Andover, MA

ACTIVE REGISTRATIONS:

- Professional Engineer_- States of Connecticut, Rhode Island, Massachusetts, New York and New Jersey

RELEVANT EXPERIENCE RECORD:

As a Principal Engineer, Mr. Giroux is responsible for administration and management of civil engineering and environmental projects undertaken by Stadia Engineering Associates, Inc. He has over thirty-five years of experience in management, strategic planning, and business development related to civil engineering for private consulting firms and state government. Mr. Giroux also has vast experience in transportation, structural, environmental and water resources engineering, and regulatory compliance/coordination.

Mr. Giroux provides oversight in the preparation of design plans, specifications, construction documents, and reports, as well as permit applications for Federal, State and Local approvals. Mr. Giroux has also worked on multi-million dollar projects in the public and private sector including municipal and state infrastructure improvement programs, including the design of stormwater management, wastewater collection and road and bridge projects as well as small and large development projects.

Mr. Giroux has provided On-Call Engineering to the University of New Haven for various assignments throughout their campus. Work included hydrologic and hydraulic analysis of a 250 acre watershed, analysis of discharges into tidal wetlands and analysis of existing drainage – all a part of an updated master drainage; parking and pedestrian circulation studies including design thereof, drainage & site designs for various expansion projects, utility infrastructure improvements, including local and state permits as well as support for STC permits. He has also provided design of improvements, including site layout/design of parking and pedestrian circulation, drainage and utilities design and permit preparation, including local and state approvals for over two-dozen school improvement projects throughout Connecticut and New York.

Mr. Giroux has supervised the design of many private development projects including several large multiuse developments ranging in size from 30-acres to over 350-acres. These projects whether housing or commercial/retail all required the design of roadways, analysis and design of storm drainage and stormwater management (both quantity and quality) and supporting utilities including water, sewer, gas, electric and communications. Projects include Ponemah Villa Estates, Norwich's first active adult community; The Greene at Medberry, a commercial/retail development in Griswold that includes a hotel, restaurant, gas station and w retail center with a grocery store and several smaller outlets; a thirty-acre campus-like facility including layout of eight (8) buildings, access drives, parking and pedestrian circulation for raising research animals and a new government facility for the Mohegan Tribe of Indians in Montville. All projects required approval through the public hearing process as well as extensive permitting on the local as well as state level.

Mr. Giroux has supervised, managed and designed numerous linear transportation projects throughout the northeast. These projects include both vehicular and pedestrian facilities. Projects include the design and restoration of a 2-mile multi-use recreational trail for the National Park Service at Hyde Park, NY



(Roosevelt Farm) designed to accommodate pedestrians, bicycles and a park shuttle. This project included hydrologic & hydraulic analysis of an 1800± acre watershed, analyses of 22 culvert crossings and one bridge crossing including a floodway analysis. Other Roadway projects include 7,000 linear feet of collector roadway in Ansonia, CT and 1,000-feet of roadway reconstruction with a 25-foot high retaining wall in Derby, CT. Major projects under Mr. Giroux's guidance have included assignments with several State Departments of Transportation including the reconstruction of the I-84 / 91 Interchange in Hartford, CT and approximately 5-miles of major reconstruction of I-495 (Long Island Expressway). All work included highway alignment, drainage and utilities, bridge and structural designs as well as coordination with other consultants including environmental and geotechnical engineering.

Also, as a part of Mr. Giroux's experience with transportation projects have been numerous structural design projects for various municipal and state Departments of Transportation. He has managed, supervised and designed bridges and retaining walls for transportation projects throughout the area. Projects have included over two-dozen bridges for the Connecticut Department of Transportation, local municipalities including Ansonia, Wallingford, Vernon and Griswold, Connecticut, as well other state and municipal agencies including the Massachusetts Highway Department, New Hampshire DOT, The Vermont Agency of Transportation, New York State (and City) DOT's and the New York Thruway Authority. Many projects were initiated with condition inspections, followed by ratings and reports and culminating in rehabilitative or replacement designs. Projects include local and interstate standard bridges and designs include both steel and concrete structures including box culverts and concrete arches.

Other areas of expertise include the administration, design and procurement of regulatory approvals both local and state/federal for transportation projects, residential subdivisions, small and large-scale corporate and commercial projects, and drainage and flood control projects. Also responsible for quality assurance/quality control on large multi million dollar projects as well as coordination of multiple subconsultants.

EMPLOYMENT HISTORY:

- Connecticut Department of Transportation, Newington, CT – May 1974 to January 1976; Engineer-Hydraulics and Drainage Unit performing drainage analysis and designs for various state highway projects as well as design reviews of Consultants under contract with the DOT.
- Purcell Associates, Glastonbury, CT – May 1976 to September 1977; Staff engineer providing drainage and sewer design for various municipalities in Connecticut. Projects included town-wide drainage studies and well as major sewer expansion projects. .
- Storch Engineers/Fay, Spofford & Thorndike, Cromwell, CT – September 1977 to November 2002; started as a staff engineer and promoted to partner/vice president. Projects include municipal, state and federal assignments.
- Fletcher Thompson, Inc., Shelton, CT - December 2002 to April 2006; Director of Civil Site Services. Responsible for site designs in support of architectural projects.
- McFarland-Johnson, Inc., New London, CT - May 2006 to May 2009; Area Manager providing oversight of projects undertaken in the New London office. Work included private developments and public work projects for municipalities and state and federal governments.

PROFESSIONAL AFFILIATIONS:

ASCE – American Society of Civil Engineers

CIVIC:

Commissioner/ Chairman – Zoning Commission, Town of Southbury, Connecticut



REFERENCES

Town of Chester

Mr. Michael Joplin, Chair of the Main Street Project Committee

Email: mwjoplin@aol.com

(860) 227-0430

Mystic Seaport Museum

Mr. Ken Wilson, Director of Facilities

Email: ken.wilson@mysticseaport.org

(860) 572-5381

Town of Groton, CT

Mr. Mark Berry, Director of Parks and Recreation

Email: mberry@town.groton.ct.us

(860) 536-5682

Town of Griswold, CT

Mr. Mario Tristany, Director of Planning

Email: townplanner@griswold-ct.org

(860) 376-7084 ex. 111