

Table of Contents

*Planning / Design & Implementation of
Northern Section of Bluff Point to Preston Tri-Town Trail
Ledyard, Connecticut*

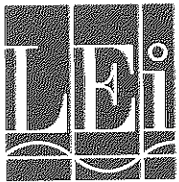
Letter of Interest

Section

- 1 Background of Firm**
 - Profile of Firm
 - Specialized Experience
 - Experience in Connecticut Cities & Towns
 - Civil Engineering Capabilities
 - Transportation Engineering Capabilities
 - Landscape Architectural Services & Capabilities
 - Project Management & Cost Control
- 2 Scope of Work**
 - Project Understanding & Approach
- 3 Project Team**
 - Proposed Team Chart
 - Resumes of Key Team Members
- 4 Similar Experience & References**
 - Project Sheets
 - Parks & Recreational Project Experience
 - Public Presentation & Participation Skills References
 - General References
- 5 Fee Proposal**



Lenard Engineering, Inc.
Civil, Environmental & Hydrogeological Consultants



Lenard Engineering, Inc.

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Civil, Environmental and Hydrogeological Consultants

March 19, 2014

Mr. John Rodolico
Mayor, Town of Ledyard
741 Colonel Ledyard Highway
Ledyard, CT 06339-1511

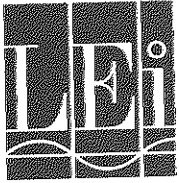
RE: *Proposal for Design Services for the Planning/Design & Implementation of the Bluff Point to Preston Tri-Town Trail, Ledyard, Connecticut*

Dear Mr. Rodolico:

Lenard Engineering, Inc. (LEI) is pleased to submit this proposal on the referenced project for your consideration. This submittal includes information on the firm's background and experience, resumes of key project team members, project approach, and references.

Specializing in municipal and civil engineering, LEI has served municipalities throughout Connecticut, as well as state and federal agencies, for over forty years. There are several reasons which we believe our firm is well qualified for your project.

- **Similar Experience** — LEI has designed and provided construction administration services for similar linear parks and bicycle and pedestrian pathway projects. The following are a few examples:
 - Meriden Linear Bike Trail (Phases II & III) — LEI provided preliminary designs for two sections of linear trail for the City of Meriden, CT. Phase II of the project included approximately 3,000 feet of trail along a former railroad right-of-way between Baldwin Pond and Bee Street. Phase III included the westerly bank of the Quinnipiac River from the Wallingford town line to Hanover Pond, a distance of approximately 7,000 feet.
 - Heritage Walkway and Park (Phases I & II) — Phase I of this Thompson, CT, project included the design of a walkway between Riverside Drive and the library, a 125-foot long pedestrian bridge, and lighting for a linear river park. For Phase II of the project, LEI designed a park access road, parking lot, 6,500 feet of walkway, a cantilevered boardwalk over a former mill tailrace, sidewalks within the North Grosvenordale village area, beach and boat launch areas, and lighting for an area of the park between the library and a former mill pond.
 - Riverfront Recapture Linear Park & Footbridge (Phases I & II) — Planning, public involvement, design and construction inspection services were provided for the revitalization of a mixed-use riverfront area in Winchester, CT, including a 1,000 LF trail along an old railroad bed, landscape and signage enhancements and lighting (Phase I), and replacement of an existing 190 LF two-span footbridge (Phase II) across the Mad River in downtown Winsted.

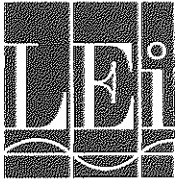


Mr. John Rodorico

March 19, 2014

Page 2

- Celeron Square Bicycle/Pedestrian Pathway – Connecting the University of Connecticut to the Celeron Square Apartment Complex, a 3,600 foot bituminous concrete pathway was designed to wind through a wooded area of rural Mansfield. Design features included 20 exercise stations and site lighting throughout its length.
- Riverfront Park and Pathway – Working with the U.S.D.A., LEI designed all aspects of Riverfront Park along the Connecticut River for the Town of Cromwell. Design features included a boardwalk on piers at river's edge, a recreational area with benches/picnic tables, pedestrian pathway with hand railing, and a parking area.
- Pakachoag Meadows Athletic Park – For the Town of Auburn, MA, LEI prepared preliminary designs for a 25-acre park which includes multi-use trails, an amphitheater, and athletic fields for soccer, softball and baseball.
- Quinnipiac River Trail, Phase 2 - LEI is currently designing a 5,500 linear foot long bicycle – pedestrian trail along Hanover Pond and Sodom Brook for the City of Meriden. The facility features a 10 foot wide bituminous trail with 2 foot wide soft shoulders on either side, the reconstruction of an existing parking lot, and associated landscaping. The project also includes the construction of a 48 foot long new pedestrian bridge and the rehabilitation of a 19 foot long existing service bridge over Sodom Brook.
- ConnDOT Experience – Transportation-related engineering projects represent a significant portion of LEI's overall experience and design capacity. LEI is presently preparing replacement designs for four bridges on Connecticut State Highways. The firm is also an on-call engineer for the Mass Highway Department for the preparation of reconstruction and rehabilitation designs under the federally-funded Massachusetts Footprint Bridge Program.
- **Availability of Staff** — Your projects will be LEI's first priority. If selected, LEI will guarantee that assigned project team members will be available to you when needed, and that we will meet all scheduled deadlines over which the firm has full control (i.e., not state and local review schedules).
- **Commitment to Service** — LEI is an employee-owned organization, and the recommended staff engineers for this project are principals in the firm, offering you long-term stability and continuity. Should there be a need for additional specialized services, our staff of 35 professionals and support staff covers not only the technical disciplines listed in your request for qualifications, but also a broad range of engineering services which are frequently required during the design and construction of public works projects.



Mr. John Rodorico
March 19, 2014
Page 3

- **Strong Municipal Orientation** — LEI has successfully completed civil engineering projects in ninety-five percent of Connecticut's 169 cities and towns. Working closely with municipal staffs and elected officials, LEI engineers and environmental scientists have appeared before hundreds of local boards and commissions. In the process, LEI has become familiar with the many requirements, methods of operation and budgetary limitations of Connecticut cities and towns. This strong municipal orientation provides LEI with sensitivity to local issues and concerns.
- **Solution Orientation** — We are not just engineers and scientists, we are "problem solvers." We thoroughly enjoy investigating your project needs and providing appropriate, cost-effective, and innovative solutions.

Throughout the course of a project, we emphasize close communications between project staff, our clients, and regulatory agencies, seeking review and feedback at each important decision level. In this way, we strive to achieve a final product which completely fulfills all of the needs of our clients.

We look forward to the opportunity to meet with you to discuss your project in more detail. Thank you very much for your consideration.

Respectfully submitted,

Lenard Engineering, Inc.

A handwritten signature in cursive script, reading 'Paul Magyar'.

Paul Magyar, P.E.
Principal engineer

enclosure

Section 1

*Planning / Design & Implementation of
Northern Section of Bluff Point to Preston Tri-Town Trail
Ledyard, Connecticut*



■ Background of Firm



Lenard Engineering, Inc.
Civil, Environmental & Hydrogeological Consultants

Profile of Firm

GENERAL INFORMATION

LENARD ENGINEERING, INC.

Civil, Environmental and Hydrogeological Consultants

**2210 Main St.
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Lenard Engineering, Inc. (LEI) is a consulting engineering firm with offices in Glastonbury, Winsted and Storrs, Connecticut, and Auburn, Massachusetts. LEI offers a variety of services ranging from exploration and preliminary planning, to final design, and construction supervision primarily for local, state, and federal public works organizations. Our expertise includes such areas as highway and traffic engineering, water supply and wastewater treatment, hydrogeology, environmental assessment and remediation, stormwater management, structural and mechanical design, industrial design and site design.

The staff members of LEI have many years of distinguished experience in these various fields. Through past projects and publications, our staff has gained national recognition for expertise in engineering. The efficiency of our organization allows us to meet strict time limits, and provides considerable flexibility in managing projects of varying scope. From four key permanent office locations, the firm serves all parts of Southern New England.

LEI's total staff, consisting of thirty-five professionals and administrative personnel, is well diversified and covers a wide range of expertise.

Our clients include federal and state agencies and municipalities as well as industrial, commercial and private concerns. We will be pleased to meet with you to discuss how we can tailor our services to meet your needs.



Lenard Engineering, Inc.
Civil, Environmental & Hydrogeological Consultants

Specialized Experience

Lenard Engineering, Inc. offers a diversified team of experts, covering a wide range of expertise in the engineering and environmental fields.

Civil Engineering: Civil engineering is the backbone of LEI's practice. Most of the firm's specialized experts have their bachelor's degrees in civil engineering, and most of our engineers are experienced in a broad range of civil engineering projects. Approximately one-third of LEI's projects fall in this category, which includes site engineering and applications of the basic principles of civil engineering. Most of our complex projects include the application of civil engineering principles.

Landscape Architecture: Our staff of landscape architects and engineers have the capabilities to provide functional and exciting recreational facilities, parks, and specific landscape design layouts for municipalities, universities, and private developers. We have the design experience and capability to work with community members to transfer existing parks or raw land into functional, inviting park systems, and to enhance a variety of site designs.

Highway Engineering: LEI has been involved with the design of highways and roads since its founding in 1970 and has had municipal highway projects throughout New England every year. The firm has also been involved in groundbreaking road resurfacing projects.

Geotechnical Engineering: LEI has in-house capability to provide complete geotechnical engineering for roadways, bridges, and building foundation designs. We can perform pile and spread footing foundation analyses and design.

Environmental Sciences: For the past ten years, LEI has placed considerable emphasis on the development of the firm's Environmental Sciences department. In addition to hydrogeology, LEI has experts in hazardous waste, geology, natural resources, biological sciences, chemistry and environmental engineering. Approximately one-third of the firm's present workload is in the environmental field.

Surveying: LEI regularly provides all forms of land surveying services for the firm's projects using our in-house surveying department. Available surveying services include boundary surveys, right-of-way mapping, topographic mapping, integration into established stream channel encroachment lines, flood plain systems, and construction stakeouts.

Bridge Design: During the past two decades the firm has designed over thirty municipal highway bridges, most of them to the Connecticut Department of Transportation (ConnDOT) and Massachusetts Highway Department (MHD) standards. Since 1996, we have prepared repair and replacement designs for seven state-owned bridges. LEI is under contract for bridge rehabilitation design under the MHD footprint bridge program.

Structural Engineering: LEI's structural engineering department undertakes a large variety of assignments, including the structural evaluations, threshold reviews and design of buildings, bridges, retaining walls, cranes and other



Specialized Experience (continued)

structures. Paul Magyar, P.E., the head of our structural department, earned a master's degree in structural engineering and has twenty-five years of experience in the structural engineering field.

Utility Engineering: LEI has demonstrated its strong background in utility engineering. We are experts in designing water supply and sewerage conveyance, pump stations, and all the related work required for designing utilities. The firm has experience with both fresh and salt water lines, the different types of sewers, fuel lines, electrical ducts and is familiar with the intricacies of these multiple utilities. LEI has prepared designs for water supply including water supply planning, level "A" groundwater mapping, water modeling, water storage tanks, pumping stations, and treatment facilities, as well as gravity and force main sanitary sewer systems and pump stations.

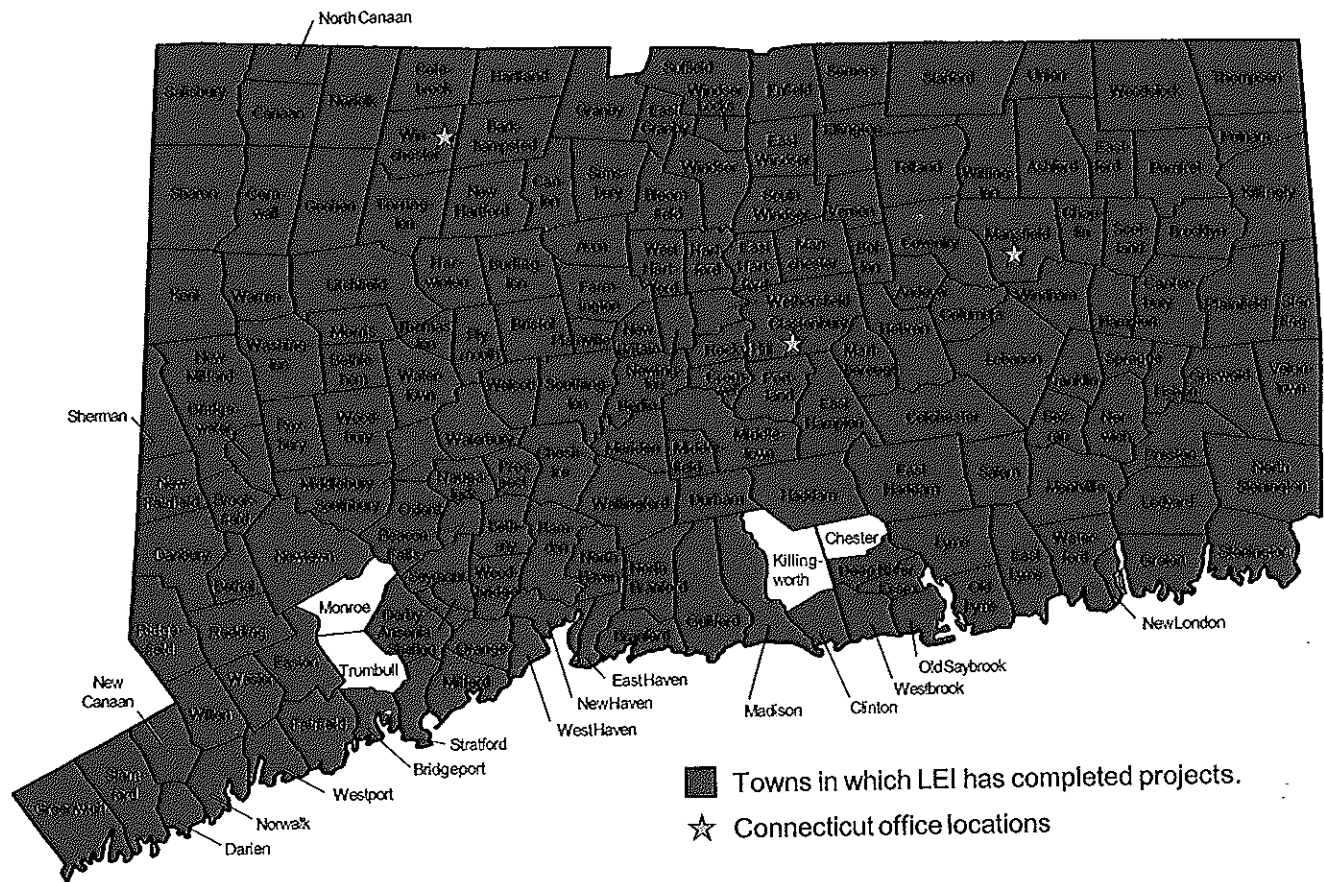
Mechanical and Electrical Engineering: LEI has the capacity to undertake all mechanical and electrical engineering design assignments. David Parry, LEI's lead mechanical/electrical engineer, has fifty years of design experience including 38 years with Hamilton Standard where he was chief of engineering operations.

Dam Engineering: LEI has been involved with over 100 dams throughout New England. Projects have included Phase I and Phase II studies, designs for new dams, the rehabilitation, repair and updating of older facilities, and the preparation of O&M manuals and emergency operations plans. LEI was retained by the US Army Corps of Engineers for a series of 20 projects and the Department of Conservation and Recreation for a series of 23 dam inspections. Other Clients have included the U.S. Fish and Wildlife Services, state agencies, municipalities, water utilities and private organizations.

Architecture: LEI teams with experienced architects for a variety of projects that involve architectural reviews, analyses, repairs and alterations. As a team we provide full architectural and engineering services, as either lead or subconsultant, on site development and building projects. We have worked on many architectural assignments including a new highway garage facility in Warren, MA; a firehouse addition, an ambulance headquarters, a child care center, a YMCA renovation and addition, and a school addition in Winsted, CT, as well as with many other projects.

Construction Services: LEI has the in-house capability to provide a broad range of construction administration and inspection services. The firm is thoroughly familiar with inspection and bookkeeping methodologies and is capable of undertaking the construction administration and inspection for major construction projects. All of LEI's construction inspectors are either certified by the National Institute for Certification in Engineering Technologies (NICET) or are degreed engineers.





EXPERIENCE IN CONNECTICUT CITIES & TOWNS

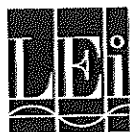
Lenard Engineering, Inc. (LEI), has successfully completed projects in nearly 98 percent of Connecticut's 169 cities and towns since 1980, as illustrated above.

Working closely with municipal staffs and elected officials, LEI engineers and environmental scientists have appeared before hundreds of local boards and commissions and have conducted scores of public hearings and meetings.

As specialists in municipal, civil, and environmental engineering for more than forty years, LEI's technical staff has become familiar with the many requirements, methods of operation, and budgetary limitations of Connecticut cities and towns. This strong municipal orientation provides LEI with a sensitivity to local issues and concerns, allowing the firm to better serve its clients.

LEI is also well known and highly regarded by state and federal regulators including the Connecticut Departments of Energy and Environmental Protection (DEEP), Transportation (DOT), and Public Health (DPH); the Region I offices of the U.S. Environmental Protection Agency (EPA); and the U.S. Army Corps of Engineers.

In addition to Connecticut, LEI has completed engineering assignments throughout the northeast with projects in Maine, Massachusetts, New Hampshire, New York, and Rhode Island.



Lenard Engineering, Inc.
Civil, Environmental & Hydrogeological Consultants

Civil Engineering Capabilities

Lenard Engineering, Inc. offers the following wide range of services in the civil engineering and site design field:

Roadway & Sidewalk Design

- Feasibility & Economic Studies
- Conceptual Designs
- Route Selection
- Horizontal & Vertical Alignments
- Drainage Improvements
- Comprehensive Improvements
- Pavement Design, Thickness Design
- Foundation Design
- Town Wide Road Programs
- Milling & Replacing Pavements
- Materials Evaluation & Selection Studies
- State & Federal Funding Programs

Stormwater & Drainage Engineering

- Hydrological Studies
- Hydraulic Analysis
- Stormwater Treatment
- Stormwater Runoff Handling
- Comprehensive Drainage Plans
- Detention Basins
- Erosion Protection

Land-Use Permitting

- Local Wetland Permitting
- State and Federal Wetland Permitting
- Local and State Erosion Control Permitting

Landscape Architecture

- Site Layout & Design
- Landscaping Plans
- Lighting Plan Development
- Athletic & Recreation Facility Design
- Park & Open Space Design

Wastewater System Evaluation & Design

- Infiltration/Inflow Analyses
- Sewer System Evaluation Surveys
- Hydraulic Analyses
- Physical Surveys & Inspections
- TV Inspections & Smoke Testing
- System Capacity Analyses
- Flow Monitoring & Sampling
- Sanitary Sewer Design
- Pump Station & Force Main Design

Septic System Design

- Soil Testing
- Sanitary System Design
- Local & State Permitting
- Construction Stake-Out & Inspection

Structural Engineering

- Bridge & Culvert Design
- Retaining Wall Design
- Foundation Design
- Building Frame Design (Steel, Reinforced Concrete, Wood)
- Earthen Structure Design
- Tower & Sign Mast Design

Water System Planning & Design

- Water Supply Plans
- Aquifer Mapping
- Storage Tank Design
- Distribution System Design
- Water System Modeling
- Treatment System Design

Traffic Engineering

- Internal Traffic Circulation
- Parking Design
- Sightline Analysis



Transportation Engineering Capabilities

Lenard Engineering, Inc. offers the following wide range of services in the transportation engineering field:

Roadway, Sidewalk & Streetscape Design

- Feasibility & Economic Studies
- Conceptual Designs
- Route Selection
- Horizontal & Vertical Alignments
- Drainage Improvements
- Comprehensive Improvements
- Pavement Design, Thickness Design
- Foundation Design
- Town Wide Road Programs
- Milling & Replacing Pavements
- Materials Evaluation & Selection Studies
- State & Federal Funding Programs

Drainage Engineering

- Hydrological Studies
- Hydraulic Analysis
- Culvert Designs
- Storm Water Runoff Handling
- Comprehensive Drainage Plans
- Detention Basins
- Erosion Protection

Air Transportation

- Runway Design
- Taxiway Design
- Aircraft Rinse Facilities
- Utility Services

Land-Use Permitting

- Local Wetland Permitting
- State and Federal Wetland Permitting
- Local and State Erosion Control Permitting

Traffic Engineering

- Traffic Impact Site Evaluations
- Traffic Safety Evaluations
- Signalized Intersection Design
- Parking Analyses
- Transportation Planning
- Manual & Automatic Traffic Counts
- State Traffic Commission Permit Applications

Transportation Services

- Bridges, Single & Multiple Span
- Culverts
- Retaining Walls
- Headwalls, Basins
- Sign Posts & Masts
- Foundation Designs

Other Services

- Soil Testing Laboratory
- Grant Applications
- Geotechnical Engineering
- Preparation of Highway Maintenance Programs
- Route Surveys & Construction Stakeouts
- Estimates of Probable Construction Costs

Construction Engineering

- Contract Documents
- Bid Solicitation & Evaluation
- Contract Administration
- Construction Inspection
- Payment Quantities & Estimation
- As-Built Drawings



Landscape Architectural Services & Capabilities

LEI's Landscape Architectural staff is experienced in all facets of site design including land planning, site design, urban planning, park and recreation design, ecological design and restoration, historic preservation and reclamation, and campus planning. LEI offers services from initial site analysis through construction detailing for projects ranging in size from master planning for multi-acre commercial developments and residential communities to water feature and signage design for streetscapes and parks.

Land Planning

- Analysis of existing conditions, viewsheds, habitats & vegetation
- Development of master plans, land-use alternatives & building guidelines
- Considerations for preservation of historic, scenic & natural resources

Urban Design

- Analysis of urban conditions including infrastructure, land use, open space & housing
- Redevelopment of industrial lands
- Streetscapes
- Wayfinding Systems
- Waterfront development
- Public parks, landmarks & monuments

Campus Planning & Design

- Parking & circulation
- Student housing
- Master planning
- Recreational & sporting facilities

Ecological Planning & Design

- Bioengineering
- Wetlands restoration & mitigation
- Gravel excavation site reclamation
- Stream bank restoration
- Woodland & meadow restoration
- Habitat design & restoration

Residential Planning & Design

- Residential subdivisions
- Private residences
- Retirement communities
- Elderly housing & assisted living facilities
- Affordable housing

Municipal & Public Facilities

- Emergency service facilities: police stations, firehouses, ambulance facilities
- Libraries
- Schools
- Community & senior centers
- Religious facilities

Commercial, Retail & Industrial Design

- Location & layout of buildings, parking & other site improvements
- Site access & circulation
- Drainage & utility layout
- Site grading
- Planting design
- Construction detailing & specifications

Open Space, Recreational & Cultural Design

- Parks, landmarks & monuments
- Ball fields
- Playgrounds
- Multiuse trails
- Recreational & sporting facilities
- Interpretive signage & exhibits
- Water features
- Entry/gateway design



Project Management & Cost Control

Staff Capabilities

Lenard Engineering, Inc. (LEI) offers a variety of services ranging from exploration and preliminary planning, to final design and construction supervision primarily for local, state, and federal public works organizations. The in-house capabilities of LEI's 35-person professional staff are extremely broad, allowing us to successfully complete most assignments without the need for subconsultants. We offer expertise in the fields of:

- Highway & Traffic Engineering
- Environmental & Land Use Permitting
- Sanitary Engineering
- Landscape Architecture
- Land Surveying & Mapping
- Environmental & Hydrogeological Sciences
- Utility Design & Relocation
- Water Supply Engineering
- Hydraulics & Hydrology
- Structural Engineering
- Geotechnical Engineering
- Construction Administration & Inspection

The staff members of LEI have many years of distinguished experience in these various fields. Through past projects and publications, our staff has gained national recognition for expertise in engineering. The efficiency of our organization allows us to meet strict time limits, and provides considerable flexibility in managing projects of varying scope. With four key locations, we serve all parts of Southern New England.

Our clients include industrial, commercial and private concerns, as well as federal and state agencies and municipalities.

Project Management

LEI's project manager will be responsible for ensuring that the schedule and budget proposed for LEI's services for the Ledyard Tri-Town Trail Project are closely monitored and controlled. Each team member will utilize in-house reporting tools to monitor progress versus time and resources expended. The project team will file reports and/or attend regular staff meetings in order to:

- Monitor status and deliverables for each project task
- Review and address issues encountered during the project
- Monitor changes that may impact the project costs
- Evaluate staffing requirements

Cost Control

LEI will use the firm's in-house Deltek Vision project management system to track and control all elements of the labor costs and expenses on this project. LEI's system produces a variety of reports which are routinely provided



Lenard Engineering, Inc.

Project Management & Cost Control (continued)

to project management and design teams. The firm is committed to tracking the utilization of resources and cost expenditures for exercising control of the project.

Quality Assurance

In addition to the regular project meetings with the town staff and the progress meetings of our project team, a technical review team will be utilized. Senior personnel will review and evaluate progress to-date at each key project milestone.

Time Schedules

LEI will manage the various tasks and staff such that the schedule will be met. Each task will be assigned a duration and start time, in accordance with the town's scheduling requirements, and each staff member performing the tasks will be responsible for its timely completion. LEI fully understands the interdependence typically found between each task and the critical need to aggressively perform the services to meet the city's timetable. LEI's commitment to the town is to make this project a priority within our firm until it is successfully completed. This includes priorities for engineering staff requirements, word processing, and graphics production.

Coordination with the Town of Ledyard

The management of a complex project requires complete and open communication between the consultant and the client. The Ledyard Tri-Town Trail Project will involve interaction between town staff, local boards and commissions, state agencies, private organizations, and the public.

In performing administrative and management tasks, LEI and the town will meet and discuss progress and problems on a routine basis. Equally important will be the communication between the project managers for LEI and the town on a day-to-day basis to exchange information and discuss and resolve issues that cannot wait for regularly scheduled meetings. Along with meetings, ongoing dialogue via telephone, email and fax will enable the project team to address concerns quickly so that the project schedule remains on track.

In summary, LEI is committed to continual open communication and interaction with the town and to applying the firm's proven technical and management skills to accomplish this project within the town's time and budget constraints.



Section 2

*Planning / Design & Implementation of
Northern Section of Bluff Point to Preston Tri-Town Trail
Ledyard, Connecticut*



■ Project Understanding & Approach



Lenard Engineering, Inc.
Civil, Environmental & Hydrogeological Consultants

Project Understanding & Approach

General

In its RFP of February 27, 2014 the Town of Ledyard through the Ledyard Tri-Town Trail Committee is seeking proposals from engineering firms for the planning, design, and development of plans and specifications for the construction of the northern section of the proposed Bluff Point to Preston Tri-Town trail. The approximately 3 mile long northern section of the trail runs from Preston Community Park in the north, to the Route 214 – Whalehead Road intersection in the Town of Ledyard, in the south, mostly along a utility right-of-way. The final trail configuration length will be developed as part of the planning process.

The proposed project will be funded through the Recreational Trail Program of the CTDEEP Bureau of Outdoor Recreation. The application process for funding entailed the development of a Tri-Town Trail Master Plan of June 30, 2009, prepared by Kent & Frost Architecture for the Southeast Connecticut Council of Governments. The Master Plan was reviewed by VHB.

Project Scope and Lump-Sum Engineering Fees

The following is an expanded version of the scope as outlined with the Town RFP, with proposed lump-sum engineering fees of Lenard Engineering, Inc. for each task:

- 1. Review existing studies and documents relating to the northern section of the Tri-Town Trail -** We will research, review, sort and organize all relevant information on file with and/or in the possession of all state and municipal agencies as well as the architectural/engineering firms that have been involved with the project in the past. Our proposed lump-sum fee for this task is \$1,800.
- 2. Initial meeting with the Committee -** The purpose of this meeting is to discuss and clarify the scope of the project with the Committee with all collected pieces of relevant information at hand. We will prepare base maps utilizing existing aerial contours and assessor's property information, as well as handouts of the researched material and will make a presentation to the members of the Committee to develop a common ground for the design. Our proposed lump-sum fee for this task is \$1,700.
- 3. Prepare action plan identifying critical steps in the pursuit of the project, including design decisions and constraints, grant restrictions and requirements, ROW acquisition steps and potential for donated services -** In this phase we will identify wetland impacts, investigate endangered species and other environmental issues, conduct permit determination, identify structural needs and ROW impacts. We will summarize and prioritize an action plan to make sure that no effort and expense is wasted for unneeded tasks. Our proposed lump-sum fee for this task is \$2,700.



Project Understanding & Approach (continued)

4. **Prepare concept plan incorporating improvements and identifying any conflicts or additional items to be considered** – The concept plan will consist of site plans, horizontal and vertical alignments, grading plans, civil and structural details, and water handling plans. The base map will be the same as the one used in the initial meeting with the Committee. For the purposes of clarity and easy understanding the Connecticut Department of Transportation planning and design conventions will be used. *Our proposed lump-sum fee for this task is \$2,600.*
5. **Assist with ROW acquisitions** – Since the ROW acquisition is a potentially time-consuming and can be the critical route in the design-planning process, it is imperative to embark on the process early on in the project. We will have draft taking and easement maps prepared utilizing existing base mapping and assist the Town of Ledyard in launching and pursuing the ROW acquisition process in a timely fashion. The draft easement/taking maps will be sufficient to approach private property owners with. *Our projected lump-sum fee for this task is \$3,700.*
6. **Prepare cost estimates for potential improvements** – Once the schematic plans are available and agreed upon, we will prepare the quantity takes and prepare construction cost estimate on the concept level. WE are going to use the standard cost estimating software of the Connecticut Department of Transportation. *Our proposed lump-sum fee for this task is \$1,300.*
7. **Attend public meeting to define improvement program** – We will conduct this task per the standard convention of the Connecticut Department of Transportation for similar meetings. We will assist the Town of Ledyard in preparing and publishing the press release and notifying the citizenry. We will prepare a Power Point slide show and other presentation material (foam boards, handouts, etc.), conduct the presentation and respond to subsequent questions. We will prepare and distribute the meeting minutes. *Our proposed lump-sum fee for this task is \$1,250.*

Our total proposed lump-sum fee for the entire scope is \$15,050.

Qualifications

Lenard Engineering, Inc. is highly qualified for this project through previous experience with similar trail project and through extensive design experience of highway and pedestrian bridges on the municipal and state level.



Lenard Engineering, Inc.

Section 3

*Planning / Design & Implementation of
Northern Section of Bluff Point to Preston Tri-Town Trail
Ledyard, Connecticut*



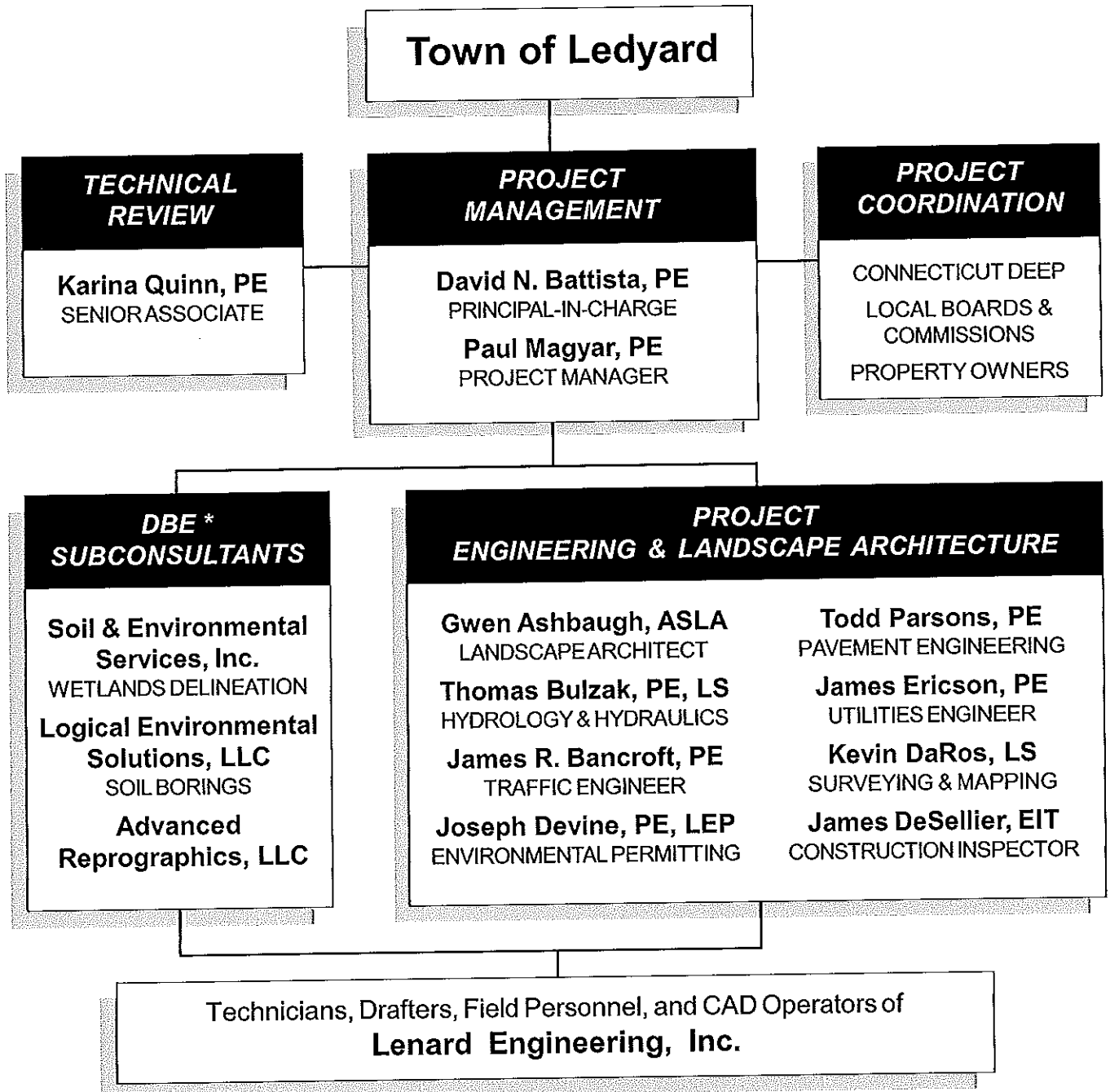
■ Project Team



Lenard Engineering, Inc.
Civil, Environmental & Hydrogeological Consultants

Project Team Organizational Chart

Planning / Design & Implementation of
Northern Section of Bluff Point to Preston Tri-Town Trail
Ledyard, Connecticut



Lenard Engineering, Inc.

* CT DOT-Certified DBE subconsultants

David N. Battista, P.E.

Principal-In-Charge

EDUCATION:

University of Connecticut
M.S. Civil Engineering
University of Connecticut
B.S. Civil Engineering

REGISTRATION:

Registered Professional Engineer in
Connecticut

AFFILIATIONS:

American Society of Civil Engineers
Connecticut Society of Civil Engineers
Construction Specifications Institute
Soil and Water Conservation Society
Rotary International

EXPERIENCE:

Mr. Battista is the firm's chief engineer and reviews the majority of large civil and environmental projects completed by all four offices. His experience includes a broad range of engineering projects such as roads, bridges, ponds, dams, site developments, sewer and water utilities, subsurface sewage disposal systems, and construction management.

Mr. Battista specializes in geotechnical engineering and evaluations. He provides engineering support for the environmental department reviewing excavation plans and evaluating soil testing and compaction results for a variety of project conditions. Mr. Battista also has vast experience in overseeing large scale construction projects and provides guidance on the overall design and implementation of large and complex cleanup efforts.

Mr. Battista has either been responsible for or has had significant roles in the following roadway, trail and bridge projects funded through the ISTE, TEA-21, SAFETEA-LU, and MAP21 Programs:

- Preston Road Reconstruction, Plymouth
- New Access Road for Regional High School No. 7, Barkhamsted
- Main Street (CT Route 138) & Church Street Streetscape Improvements, Voluntown
- Water & Union Streets Roadway Reconstruction & Streetscape, Danielson
- Main Street (U.S. Route 44/CT Route 183) Road Reconstruction & Streetscape, Winsted
- Center Street Roadway Reconstruction, Windsor Locks
- Prospect Street Roadway Reconstruction & Realignment, Winsted
- Winsted Riverfront Recapture and Revitalization Phases I & II, Winchester
- Wellers Road Bridge over Shepaug River, Roxbury
- Meadow Street Bridge over Mad River, Winchester
- White Street Bridge over Still River, Winchester
- West Street Bridge over Great Brook, New Milford
- Bradley Road Bridge over West River, Woodbridge
- High Bridge Road Bridge over Bantam River, Litchfield

Prior to joining LEI, Mr. Battista was a project engineer with Towne Engineering of South Windham where he designed site plans, subdivisions, roadways, stream crossings, dams, and various other projects. He also formerly worked as a project engineer with Henry Hart, served as assistant engineer for the City of Torrington, and was assistant plant engineer for Sterling Engineering Corporation in Winsted.



Paul Magyar, P.E.

Project Manager

EDUCATION:

University of Connecticut

M.S. Structural Engineering, 1987

Technological University of Budapest,
Hungary

*Dipl. Ing. Civil / Structural
Engineering, 1976*

REGISTRATION:

Registered Professional Engineer in
Connecticut (civil)
Massachusetts (structural)

AFFILIATIONS:

American Society of Civil Engineers

EXPERIENCE:

Mr. Magyar joined LEI in 1984. He has over 35 years of experience in construction management as well as in the evaluation and design of a wide range of projects such as recreational developments, roadways, bridges, buildings, retaining walls and dams. For the past 25 years he has worked on numerous Connecticut DOT projects including roads, recreational trails, parks, and bridges, funded under the ISTEA, TEA-21, SAFETEA-LU, and MAP-21 programs. He also specializes in the management of large residential and commercial site development projects. His experience with buildings, roadways and bridges is valuable in the in construction inspection and management that require working in close proximity to these features.

Mr. Magyar has been responsible for the design and construction inspection / administration of the following projects, overseen by the Connecticut DOT and funded through the ISTEA, TEA-21, SAFETEA-LU, and MAP-21 programs:

- Quinnipiac River Trail – Phase II, Meriden
- Heritage Way, Thompson
- Civic Campus Enhancement, Essex
- Streetscape Improvements, Voluntown
- Reconstruction of Water Street, Danielson
- Route 79 over Hammonasset Brook, Killingworth
- Wellers Road Bridge over Shepaug River, Roxbury
- Wauregan Rd. Bridge over Blackwell Brook, Canterbury
- Valley Road Bridge over Whetstone Brook, Killingly
- Tatnic Road Bridge over Stony Brook, Brooklyn
- West Street Bridge over Great Brook, New Milford
- Lakemere Dr. Bridge over Lee Farm Brook, Southbury
- Spruce Brook Rd. Bridge over Transylvania Brook, Southbury
- North Sterling Rd. Bridge over Quanduck Brook, Sterling
- Bradley Road Bridge over West River, Woodbridge
- High Bridge Road Bridge over Bantam River, Litchfield

Prior to joining LEI, Mr. Magyar was a head of the structural department for a large construction company. His duties included project management of large multistory structures, both reinforced concrete and steel. He was senior project manager for a two-year development project in the Middle East.



Gwendolyn Ashbaugh, PLA

Senior Landscape Architect

EDUCATION:

Pennsylvania State University
B.S. Landscape Architecture,
1988

REGISTRATION:

Registered Landscape Architect
Connecticut

CERTIFICATION:

Certified Professional in Erosion and
Sediment Control

AFFILIATIONS:

American Society of Landscape
Architects

AWARDS:

Sustainable Development Award,
American Planning Association,
Connecticut Chapter, 2009

EXPERIENCE:

Ms. Ashbaugh is a Landscape Architect and project manager with Lenard Engineering, Inc. Past assignments throughout Connecticut and Massachusetts include:

- Site design and detailing of custom site furnishings and retaining walls for an Arts building at a private school in Connecticut.
- Site design and land-use permitting for a gasoline station at an existing shopping center and grocery store in Winsted, CT.
- Site design and land-use permitting for rebuilds of fast food restaurants, with drive-thru windows, at various locations throughout Connecticut. The projects included relocation of city bus shelters, State roadway realignments, outdoor customer eating and seating areas, bicycle facilities, and stormwater infiltration planters.
- Roadway rehabilitation projects in Massachusetts. The projects included roadway realignment, sidewalks, signage, plantings, and utilities.
- Design and permitting of an age-restricted housing complex in Winsted, CT. The project included 48 residential condominiums, a community building, a water supply pump station, and upgrades to Town storm drainage facilities.
- Design and permitting for an Emergency Services Center for Falls Village, Connecticut. The project included provisions for emergency shelter capabilities, a cellular communications tower, and a water supply pumping system.
- Permitting and site design for an Educational and Art facility in Winsted, CT. The project included Brownfield clean-up and wetlands mitigation.
- Conceptual park plans for the Town of Auburn, Massachusetts. The project included baseball, softball and soccer/football fields, a small outdoor amphitheater, walking trails, parking facilities and access roads on a 25-acre site.
- Site design, permitting, and floodplain mitigation for a propane supply company in Torrington, CT. The projects included a bulk propane storage facility and a retail store.
- Design and permitting for traffic calming and parking lot rehabilitation projects for a bank in Winsted, CT.



Gwendolyn Ashbaugh, RLA

Senior Landscape Architect

- Design for an open space residential development adjacent to a pond in Gloucester, MA. The project included site analysis, roadway and lot layout, retaining walls, plantings, and utilities.

Prior to joining LEI, Ms. Ashbaugh worked for land-scape architecture, engineering, and environmental consulting firms in Connecticut. Her projects included:

- Residential subdivision land use studies, including analysis of existing site features, analysis of existing and future utility availabilities, and future neighborhood development recommendations.
- Wetlands mitigation plans for a large public water supply reservoir expansion in Massachusetts, including design, construction administration, and analysis of existing plant and wildlife habitats, groundwater levels, and surface water influences.
- Environmental Impact Statement for redevelopment of a Brownfield site into a waterfront educational facility in New London, CT.
- Vehicular and pedestrian access reconfiguration for a large retail complex in Avon, CT.



Todd Parsons, P.E.

Pavement Engineering

EDUCATION:

University of Connecticut
B.S. Civil Engineering, 1985

REGISTRATION:

Registered Professional Engineer in
Connecticut
New York

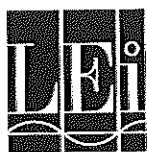
EXPERIENCE:

Mr. Parsons is the manager and a principal engineer in the Winsted office of Lenard Engineering, Inc. Mr. Parsons' experience includes a broad range of civil design and administration of projects, including road design, storm water management, site planning, subdivisions, septic systems, dams, utility systems, and land-use permitting.

Mr. Parsons has significant experience working with municipal, private sector, and institutional clients to prepare plans and specifications and to perform contract administration for a wide variety of construction projects. Mr. Parsons also has extensive experience administering land-use permits through local, state and federal agencies. Past assignments include:

- Design of water service, sanitary sewer service and stormwater management for a 430,000 SF retail facility in Canton
- Analysis and design for a large-scale on-site wastewater renovation system for a private school in Lakeville
- Site planning for a 32-unit apartment complex for the Winchester Housing Authority
- Design, permitting, and construction management for a \$1.05M Downtown Transportation Enhancement project in Winsted
- Town of Hartland, Public Works Garage and salt storage building
- Town of Washington, Public Works Garage
- Tennis courts and a softball field at Western Connecticut State University
- Storm water management plans for Hartland Public Works Facility, Sharon Public Works Facility, Salisbury Public Works Facility, New Hartford Public Works Facility, Goshen Public Works Facility, and Salisbury/Sharon Transfer Station
- Site design for a 90-unit assisted living center in Newington
- Peer review of land-use applications for Towns of Sharon, Kent, Winchester, New Hartford, Goshen, and Barkhamsted
- Preparation of Low Impact Development Regulations for the Towns of Colebrook and New Hartford.

In addition to his tenure at Lenard Engineering, Inc., Mr. Parsons was a Project Manager at Conklin & Soroka, Inc. in Cheshire, Connecticut.



Thomas J. Bulzak, P.E., L.S.

Hydrology & Hydraulics

EDUCATION:

University of Connecticut,
M.S. Civil Engineering, 1992
AGH University of Science and
Technology,
M.S. Geodesy, 1985

REGISTRATIONS:

Registered Professional Engineer in
Connecticut
Registered Land Surveyor in
Connecticut

TRAINING:

HEC-HMS, "Hydrologic Modeling
System"
HEC-2, "Floodplain Hydraulics"
NFIP Regulations and Revisions
Stream Stability and Scour at Highway
Bridges
WSPRO, "Hydraulics of Bridge
Waterways"

EXPERIENCE:

As chief engineer for EcoDesign, LLC, Mr. Bulzak is responsible for managing, reviewing and preparing complex hydrologic, hydraulic, scour, and drainage studies for projects involving bridge reconstruction including bridge or culvert structures under buildings and mills, flood control including FEMA floodplain and floodway map revisions (LOMR & CLMR), dam hydraulic performance and spillway modifications or repairs, and land development projects.

Selected projects include:

- Rose Hill Avenue Bridge and Industrial Complex over Still River, Danbury, CT
- Construction of U.S. Route 7 Bypass, Limekiln Brook CLMR, Brookfield/Milford, CT
- "Sikorsky Bridge", Route 15 over the Housatonic River, Milford/Stratford, CT
- Reconstruction of Waite Street Bridge over Lake Whitney, Hamden, CT
- Hubbard Road Extension over West River, Guilford, CT
- Reconstruction of Rubber Avenue Ext. Bridge over Long Meadow Pond Brook, Naugatuck, CT
- Rehabilitation of Rubber Avenue Bridge over Long Meadow Pond Brook, Naugatuck, CT
- Middletown High School, Newfield Street Improvements (Rt. 3) Preliminary Drainage Investigation, Middletown, CT
- Reconstruction of Country Club Road - Culvert Crossings, Middletown, CT
- Wethersfield Country Club Flood Control and Drainage Improvements, Wethersfield, CT
- Murphy Pond Dam Rehabilitation, Wethersfield, CT
- Northeast Utilities Service Company, System Construction Headquarters - Drainage Improvements, Newington, CT
- Routes 7 and 202 Connector - Preliminary Engineering, New Milford, CT
- High Lane Club Drainage Improvements, North Haven, CT

Previously, Mr. Bulzak worked for Berger, Lehman Associates; WMC Consulting Engineers; and Close Jensen and Miller where he managed, reviewed and prepared hydrologic, hydraulic, scour, and drainage studies for projects involving bridge reconstruction, flood control including FEMA floodway map revisions, and land developments.



James E. Ericson, P.E.

Utilities Engineer

EDUCATION:

University of Connecticut
M.S. Environmental Engineering
University of Connecticut
B.S. Civil Engineering

REGISTRATION:

Registered Professional Engineer in
Connecticut
Massachusetts
Sandia Laboratories Certification for
RAM-W Vulnerability Assessments

PUBLICATIONS AND PRESENTATIONS:

"Scale Modeling: Invaluable Tool in
Predicting Contact time Improve-
ments in Water Treatment Plant
Clearwells," presented at 1996
AWWA Annual Conference,
Toronto, Canada

"Slow Sand Filtration: A Viable Option
for Small Water Utilities," presented
at 1994 Connecticut Section
AWWA Annual Conference,
Woodstock, Vermont

AFFILIATIONS:

American Society of Civil Engineers
American Water Works Association
Connecticut-Rhode Island Rural Water
Association
New England Water Works Association

EXPERIENCE:

Mr. Ericson has been a principal of the firm since 1987 and is also the Vice President. He joined Lenard Engineering, Inc. in 1984 as a Senior Engineer. Presently, he is in charge of numerous municipal and environmental projects, and is also involved in management of the corporation.

Mr. Ericson's project management and design responsibilities cover the wide spectrum of the firm's experience including water supply, geo-technical, water resources, solid waste, sanitary and municipal projects. Specific projects have included:

- Water Supply Master Plans for utilities located in Berlin, Bethel, Colchester, Ellington, Southington, Sprague, and Tolland, CT
- Water main extension projects in Glastonbury, Killingly, Waterford, CT; Hardwick, MA; and the University of Connecticut
- Modifications to upgrade the capacity of the University of Connecticut Sewage Treatment Facilities
- Campus-wide stormwater management plan for the University of Connecticut
- New water treatment plant and one million gallon water storage tank in Colchester, CT
- Water pumping stations in Berlin, Bristol, Canterbury, Colchester, East Hampton, East Lyme, Montville, Waterford, Woodstock, CT, and the University of Connecticut
- Vulnerability assessments for water utilities in New Britain, Southington, Waterford, and Winchester, CT
- Wastewater pumping stations in Meriden and Waterford, CT, and at Naval Submarine Base New London
- Phase II dam investigations and construction plans for dams in CT and MA
- DEP-permitted on-site sewage disposal systems for schools and small communities in CT and MA
- Hydrogeologic studies, groundwater monitoring plans, and remedial action plans for municipal sanitary and bulky waste landfills and groundwater contamination sites involving road salt and chemical solvents

Mr. Ericson began his professional career with Palmberg & Russo, Consulting Engineers of Bloomfield, Connecticut. He also served as a Sanitary Engineer with the Water Supplies Section of the Connecticut Department of Public Health, where he was involved in the inspection and regulation of municipal and community water supply systems.



James R. Bancroft, P.E.

Traffic Engineering

EDUCATION:

Purdue University
B.S. Civil Engineering, 1975
University of South Carolina
M.B.A., 1984

REGISTRATION:

Registered Professional Engineer in
Connecticut
Massachusetts
New Hampshire
Ohio
Rhode Island
South Carolina

AFFILIATIONS:

American Public Works Association
American Society of Civil Engineers
American Water Works Association
Institute of Transportation Engineers
National Association of Water
Companies
New England Water Environment
Association

EXPERIENCE:

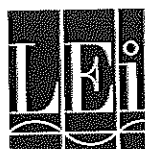
Mr. Bancroft is an experienced engineer with a broad background in traffic engineering and transportation planning. His expertise includes traffic impacts, traffic safety, signalization, signage, parking, computer modeling, bus and rail transit, roadway design, and ride sharing.

In Charleston, WV, he conducted a traffic impact and access study for the Town Center development in the city's CBD. Involved were 1.25 million square feet of retail space, 150,00 SF of offices, a 360-room hotel with convention facilities, and three parking structures with capacity for 4,200 cars. Adjacent to the site were city and state office buildings, a convention center/auditorium, and two additional parking structures. The project's scope included analysis of two dozen CBD intersections and the realignment of an arterial which passed beneath the center. He has also conducted traffic impact and access studies for shopping centers, regional malls, residential subdivisions, restaurants, offices, and medical buildings in Connecticut, Massachusetts, Kentucky, Kansas, North Carolina, South Carolina, and Georgia.

Mr. Bancroft was Transport Planner in the Republic of Singapore for that nation's Comprehensive Transportation Study to determine impacts for future year travel demands and resulting roadway traffic volumes on a nationwide bus transit system. The work program involved extensive direct interviewing at major traffic generators and mailed questionnaires to samples of vehicle owners to obtain origin and destination information and driving habits. The study was conducted to evaluate a proposed heavy rail transit system using computerized modeling of the nation's roadway network. He prepared preliminary designs for modifications to a commuter rail station in Boston and evaluated ridership demands for the light rail system in Miami, FL. Mr. Bancroft was also responsible for long-range transportation planning studies in Cincinnati, OH, and Owensboro, KY.

In Kansas, Missouri, and Tennessee, Mr. Bancroft conducted a series of traffic safety studies encompassing 17 counties and 20 cities including towns in suburban Kansas City and Knoxville. These studies identified and analyzed hazardous traffic locations and provided recommendations of non-capital intensive operational improvements and implementation priorities.

Mr. Bancroft has also worked in some nontraditional areas of traffic engineering. In Rhode Island, he modeled increased noise impacts for a proposed highway widening and realignment. For the FEMA, he conducted assessments of evacuation times for nuclear power plants in Indiana and Michigan. In rural Kentucky, he examined the feasibility of providing daily industrial shuttle bus service to move a peak population of 3,500 workers to the construction site of a synthetic fuel plant in a location where it was too costly to improve the infrastructure. In Columbia, SC, he surveyed parking and ride sharing attitudes of employees and corporate policies of similar regional companies and major local employers to develop a parking and ride sharing policy for a company moving its offices to the CBD.



Kevin DaRos, L.S.

Surveying & Mapping

EDUCATION:

Wentworth College of Technology
B.S. Civil Engineering Technology,
1973

REGISTRATION:

Connecticut Licensed Land Surveyor,
1984

AFFILIATIONS:

Connecticut Association of Land
Surveyors, President 2010–2012

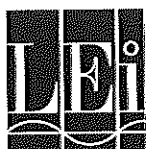
EXPERIENCE:

Mr. DaRos has directed a wide spectrum of survey projects ranging from rural boundary surveys to suburban development projects to urban construction projects. He has been involved with boundary plans, topographic plans, site plans, utility construction plans and related easement mapping. His experience extends from the initial title research through the field execution, to the final mapping of the project. He has extensive experience with ground control for large scale aerial mapping projects. Mr. DaRos has supervised a wide variety of construction projects, including subdivisions, road reconstruction projects and industrial/commercial sites.

Mr. DaRos was previously survey manager for Design Professionals, Inc., of South Windsor, Connecticut, a 25-employee civil engineering/land surveying firm. Responsibilities included supervision of three full-time survey field crews, reduction and plotting of field notes, base map generation using AutoCAD/DCA computer software, final map plotting and construction stake out.

Mr. DaRos was also Chief Surveyor for Palmberg and Russo of Bloomfield, Connecticut. Duties included boundary, topographic, aerial, mortgage and engineering surveys for the development of site plans, drainage and road reconstruction and sanitary sewer construction projects.

With over twenty years of experience in the field of surveying/engineering, Mr. DaRos is well prepared to supplement the engineering needs of Lenard Engineering, Inc., and provide clients with complete surveying services.



Joseph D. Devine, P.E., L.E.P.

Environmental Permitting

EDUCATION:

University of Connecticut
*M.S. Environmental
Engineering, 2002*
University of Connecticut
B.S. Civil Engineering, 1995

REGISTRATIONS:

Registered Professional Engineer in
Connecticut
Massachusetts
Rhode Island
Vermont
Licensed Environmental Professional
Connecticut

CERTIFICATIONS:

OSHA 40-Hour HAZWOPER Training

AFFILIATIONS:

American Society of Civil Engineers
Environmental Professionals'
Organization of Connecticut
New England Water Environment
Association

EXPERIENCE:

Since joining the firm in 1995, Mr. Devine has worked at all four LEI offices on a wide range of civil and environmental projects. As a project engineer in the Winsted office, he worked on civil engineering projects including bridge replacements funded by state and federal grant programs. Mr. Devine conducted field investigations, constructed computer models for flood plain analysis, designed bridge abutments for scour, and prepared design plans and specifications. He also worked on site development plans for retail stores, restaurants, commercial plazas and subdivisions.

In 1997, Mr. Devine moved to the main office in Storrs as a project manager with the environmental group. Mr. Devine conducted environmental investigations ranging from preliminary site assessments to comprehensive subsurface investigations. He designed and supervised source area excavation projects, many of which required excavation shoring and dewatering. He prepared dewatering discharge permits and soil disposal permits for the excavation projects. Mr. Devine also designed, installed and operated numerous treatment systems utilizing both proven and innovative treatment technologies. He prepared applications to the Connecticut UST Clean-Up Account program for reimbursement of cleanup costs associated with the investigation and cleanup of releases from underground storage tanks. Mr. Devine also worked on various other environmental projects including commercial and industrial discharge permits; spill prevention, control and countermeasures (SPCC) plans for bulk storage facilities; UST removal and closure reporting, sensitive receptor surveys and drinking water well sampling programs, local planning and wetlands permitting, and a variety of other related services.

In 2000, Mr. Devine moved to the Auburn, Massachusetts, office as a branch manager. His responsibilities included management and development of the newly opened branch office. Mr. Devine represented LEI before various private and public entities and was instrumental in LEI being awarded contracts with the Massachusetts Highway Department and the Pioneer Valley Planning Commission. He worked to develop the branch into a growing and viable office before returning to Storrs in 2003.

In 2006 Mr. Devine became a partner of the firm and currently serves as senior engineer of the civil and environmental groups at the Glastonbury office. His responsibilities include senior management of engineering and design for site development and remediation projects. He also continues to work on business development and marketing efforts to further LEI's client base.



James E. DeSellier, E.I.T.

Construction Inspector

EDUCATION:

Central Connecticut State University
B.S. Civil Engineering Technology,
2003

REGISTRATIONS:

Engineer-in-Training in Massachusetts

EXPERIENCE:

Mr. DeSellier joined Lenard Engineering, Inc. in 2006 and since that time has been extensively involved in the surveying, AutoCAD design, permitting, construction administration and inspection of civil, utility and environmental engineering designs. He has been the lead designer and project engineer on the following representative projects:

- \$2.7 million potable water expansion project, involving 8,000 LF of water mains, two major pipe crossings on bridges, booster pump station, and connections to 300 customers in Brookfield, CT.
- Directional drilling of water mains below Interstate 84 and streams in Tolland, CT, including 2,000 LF of new water main and a pressure reducing vault.
- Water design study for a proposed fire station in Falls Village.
- Six water master meter pit designs in Berlin and Cromwell, CT.
- Underground utility design involving 1,500 LF of 16-inch water main, electrical and telecommunication duct banks, and extensive roadway and sidewalk restoration, University of Connecticut.
- Two water treatment plant backwash water lagoon designs, involving extensive civil / site work.
- Miles of water mains and sewer mains in public streets, including resolving potential utility conflicts and restoration of pavements, curbs, driveways, sidewalks.
- He also provided a base line assessment for the Town of Chester, MA for their existing utilities.
- Five small community and school water system improvement projects, including pump station building, site work, water treatment, mechanical and storage tank design, including local and state agency permitting.

His major construction administration and inspection projects have included:

- Provided Contract Administration and part-time inspection on \$ 3.2 million Quaker Hill water extension project in Waterford, managing activities of three contractors during construction of a 1.5 MG Concrete Water Tank, 4 MGD Pump Station and 2500 LF Water Main Project, Waterford, CT. Work was completed in both Town and State roadways.



James E. DeSellier, E.I.T.

Construction Inspector

EXPERIENCE (continued):

- Lead Inspector on \$ 1.5 million water main and electrical / telecom duct bank project in utility intense area University of Connecticut, Storrs, CT. Work included repaving of North Eagleville Road (State owned), as well as extensive sidewalk, driveway and parking area restoration. Oversaw the work of up to five crews working simultaneously.
- Lead Contract Administrator and part time inspector on \$ 2.7 million Brookfield water main, bridge crossing and water pump station project, Brookfield, CT. Extensive interaction in obtaining DOT approvals for the installation of new water mains on State owned bridges.
- Lead Inspector on 2000 LF water main project, Route 32, Willington, CT. Most of the project involved work in the Route 32 corridor, including pavement and sidewalk restorations in state right-of-way.
- Lead Contract Administrator and Inspector on Horizontal Directional Drilling project, where a new 8" water main was installed beneath I-84 in Tolland.
- Performed Contract Administration and part-time inspection on numerous smaller civil, water, sewer, and pumping station construction projects.

Previously, with Hatch Mott MacDonald Group, Inc. (HMM), He worked as an Engineering Technician for five years. He was a consultant to Tennessee Gas Pipeline (TGP) and Iroquois Gas Transmission Systems (IGTS). He designed high pressure transcontinental natural gas pipelines metering and regulating facilities, performed stress calculation for road crossings, and reviewed blast calculation for TGP. He also worked in pipeline compliance for IGTS reviewing the affect of population density on high pressure gas lines and reviewed developer plans to mitigate their impact on over the gas lines and easements.



Section 4

*Planning / Design & Implementation of
Northern Section of Bluff Point to Preston Tri-Town Trail
Ledyard, Connecticut*



■ Similar Experience & References



Lenard Engineering, Inc.
Civil, Environmental & Hydrogeological Consultants

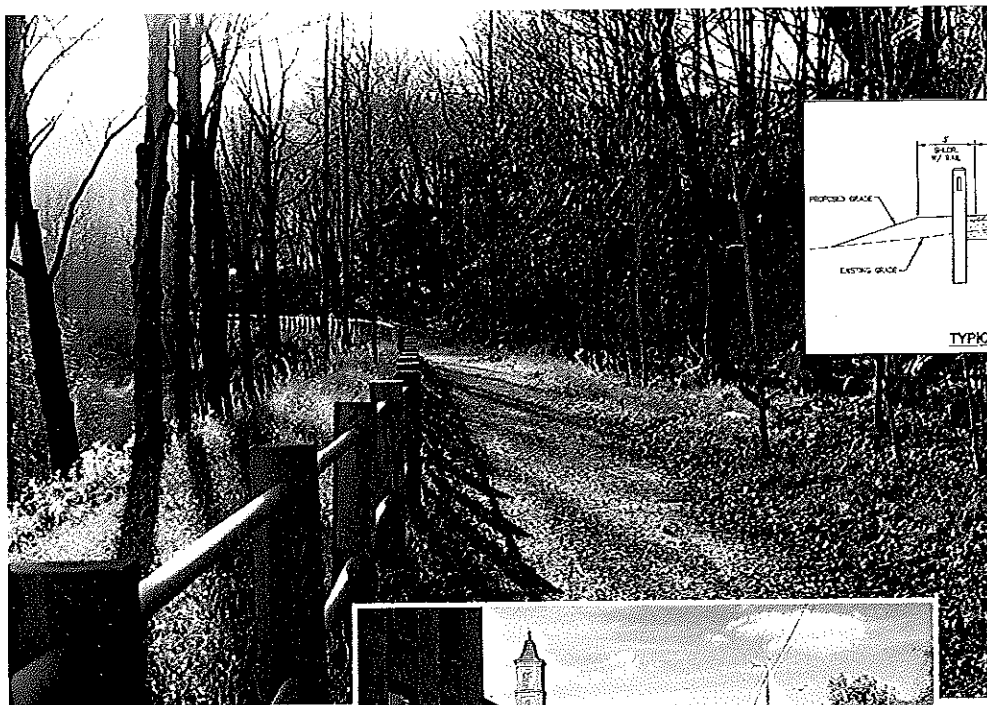
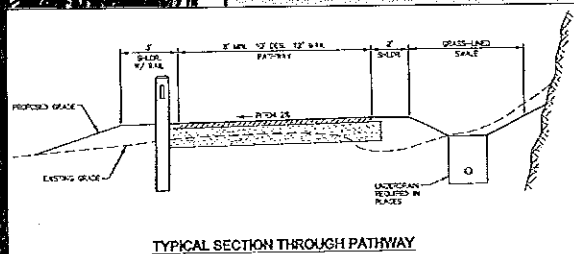
TRAIL SYSTEMS



LEI has the professional expertise to create exciting and vibrant recreational trail systems. Whether starting from scratch or converting an existing right-of-way to a new use, LEI provides the design services needed to complete a dynamic trail system.

An in-house design team of Landscape Architects and Civil, Structural and Environmental engineers work hand-in-hand to provide all phases of trail design including trail alignment and grading, signage, railings, site furniture, plantings and lighting.

LEI's professionals have project experience ranging from roadside bike trails to converted rail right-of-way systems and interpretive nature trails.



Relevant Projects:

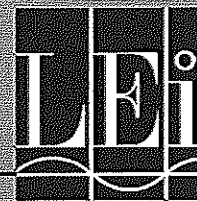
- Heritage Trail and Park, Thompson, Connecticut
- Riverfront Recapture, Winsted, Connecticut
- Quinnipiac Trail System, Meriden, Connecticut
- Celeron Square, University of Connecticut, Mansfield, Connecticut



Lenard Engineering, Inc.
Civil, Environmental and Hydrogeological
Consultants

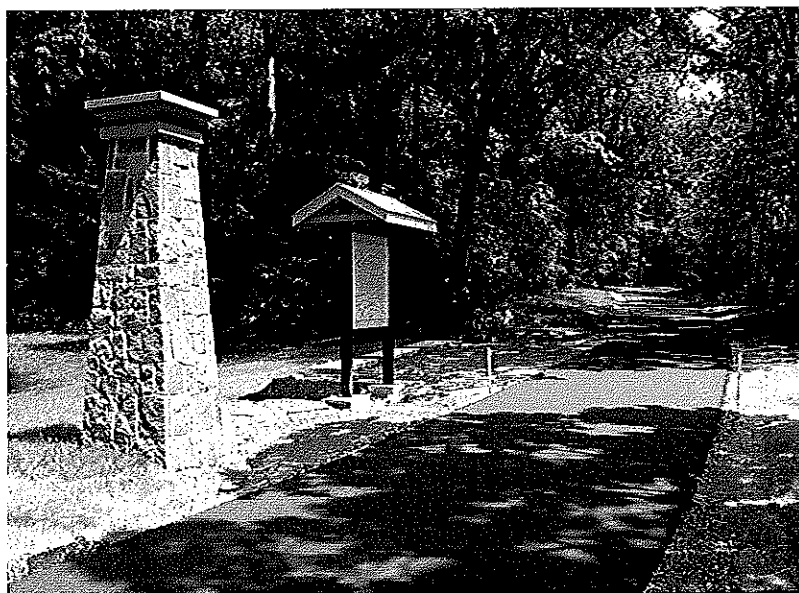
PD 08 Rev 11-8-05

RECREATIONAL TRAIL



Quinnipiac River Trail Phase 2 Meriden, Connecticut

Phase 2 of the Quinnipiac River Trail project consists of the design, permitting, and construction of a multi-use trail, approximately 5,500 feet long. The facility originates at the northeasterly corner of the Oregon Road Bridge of the Quinnipiac River, proceeds in a north-northeasterly direction paralleling Oregon Road, Hanover Pond and Sodom Brook, and terminates at the southerly end of the Oliver Platt High School parking lot on the south side of Coe Avenue.



The trail mostly follows the right-of-way of the former Meriden and Waterbury Railroad which was built in 1887 and 1888, discontinued in 1917, and the tracks demolished in 1924. The Archeological

Reconnaissance Survey of February 2009, prepared by Archeological and Historical Services, Inc. describes this in more detail.

The facility features a ten-foot wide bituminous trail with two-foot side soft shoulders on either side. It also includes a kiosk and a gateway at the northerly end of the Hanover Pond recreational area, similar to those at the easterly terminus of Phase 1. The trail will be built with some grading, drainage improvements, and wood rail fence at appropriate locations. Landscape screening is planned along the back of the Glen Hills Road residential properties.

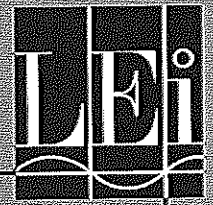
The trail also includes the extension of the existing bituminous parking lot in the Hanover Pond recreational area, the construction of a new bridge and the rehabilitation of an existing bridge over Sodom Brook.



Lenard Engineering, Inc.
Civil, Environmental and Hydrogeological
Consultants

PO-16 Rev. 9-15-13

RECREATIONAL TRAILS

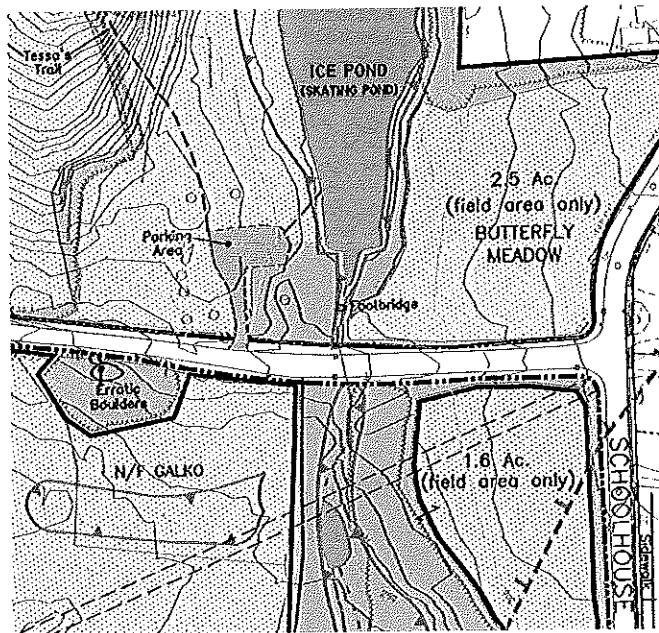


Recreational Trails Fresh Meadows Open Space Wallingford, Connecticut

LEI is preparing designs for three ADA-accessible trails and a parking area for the Town of Wallingford's Fresh Meadow Open Space property.

- **Pond Trail:** A 200-foot stone-dust trail to provide access from an existing eastern parking area to Ice Pond. A small ADA-compliant pier will be located at the trail terminus.

- **Cheshire Road Trail:** A 1,680-foot bituminous trail through the meadow along the south side of Cheshire Road to provide access from the existing western parking area to the erratic boulder area and then looping and continuing on to a new parking area. A seating area will be adjacent to the erratic boulder under an existing grove of trees.

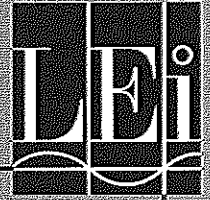


- **Butterfly Meadow Loop Trail:** A 1,600-foot stone-dust loop trail to provide access to the Butterfly Meadow Area from the existing parking area to the east over a small stream to the meadow and looping through the meadow to provide access to different plant communities there.
- **Southern Parking Area:** A new bituminous parking area with vehicular access to Cheshire Road and pedestrian/wheelchair access via the Cheshire Road Trail.
- **Signage:** Trail head signage for all three parking areas (two existing, one new), and informational signage at the erratic boulder area.

Lenard Engineering, Inc.
Civil, Environmental and Hydrogeological
Consultants

FD17 Rev 9-18-13

RECREATIONAL TRAIL



Heritage Walkway and Riverside Park Thompson, Connecticut

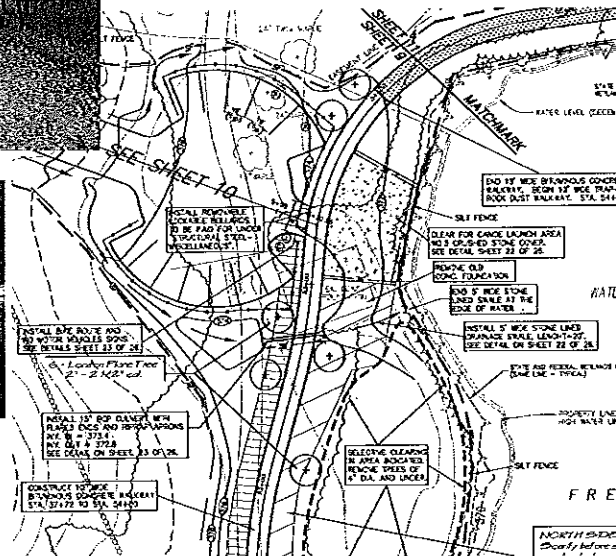
The Thompson Heritage Walkway and Riverside Park begins at Riverside Drive near the Thompson Public Library in North Grosvenordale and runs north approximately 7,700 feet along the west shore of the French River. The walkway passes through a section of the town's historic mill area on its way to Grosvenordale Pond. Approximately 50 percent of the walkway is either bituminous pavement or wooden boardwalk with the remaining half composed of compacted stone dust.



Because of limited space along State Route 12 (Riverside Drive), the walkway is cantilevered over a former mill tailrace.

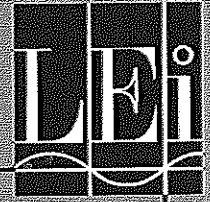


Access and parking is available at the library, adjacent to the former mills and at a canoe and small boat launch area at the southern end of Grosvenordale Pond.



Lenard Engineering, Inc.
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Consultants
FD-04 Rev. 10-26-05

RECREATIONAL FACILITIES



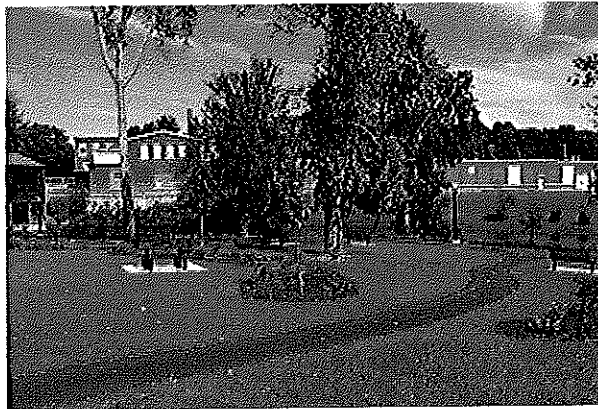
French River Park Site Design, Permitting & Construction Services Webster, Massachusetts

LEI provided survey, design, permitting and construction engineering services for development of the French River Park. LEI worked closely with the French River Connection and the Town of Webster through all



phases of the work. The project required local permitting through the Conservation Commission and State permitting through the Natural Heritage & Endangered Species Program due to the presence of a rare species and required a site-specific "Mussel Protection Plan."

The permitted design was submitted to the Department of Housing and Community Development and awarded construction funding through the Community Development Block Grant program. LEI then provided bidding, construction administration and clerk-of-the-works services through the successful completion of the project.

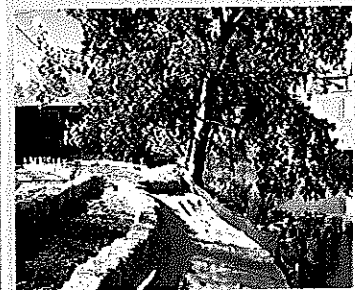
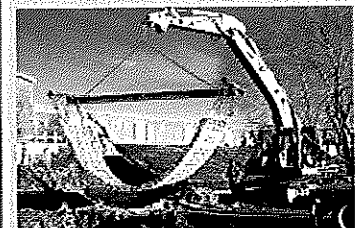


Improvements included extensive site clearing, native plantings, construction of a canoe launch and parking facility, pedestrian and parking lot lighting, and an accessible meandering trail with benches and tables. Stormwater was managed through non-structural means including forebays and rain gardens. The Park was opened to the public during a festive ceremony in August 2011.



Project Summary:

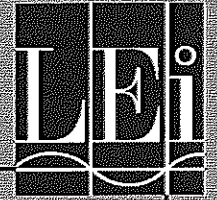
- Start of Design: December 2009
- Construction Complete: August 2011
- Project Construction Cost: \$260,000
- Funding through Community Development Block Grant



Lenard Engineering, Inc.
Civil, Environmental and Hydrogeological
Consultants

FD-13 Rev. 3-6-12

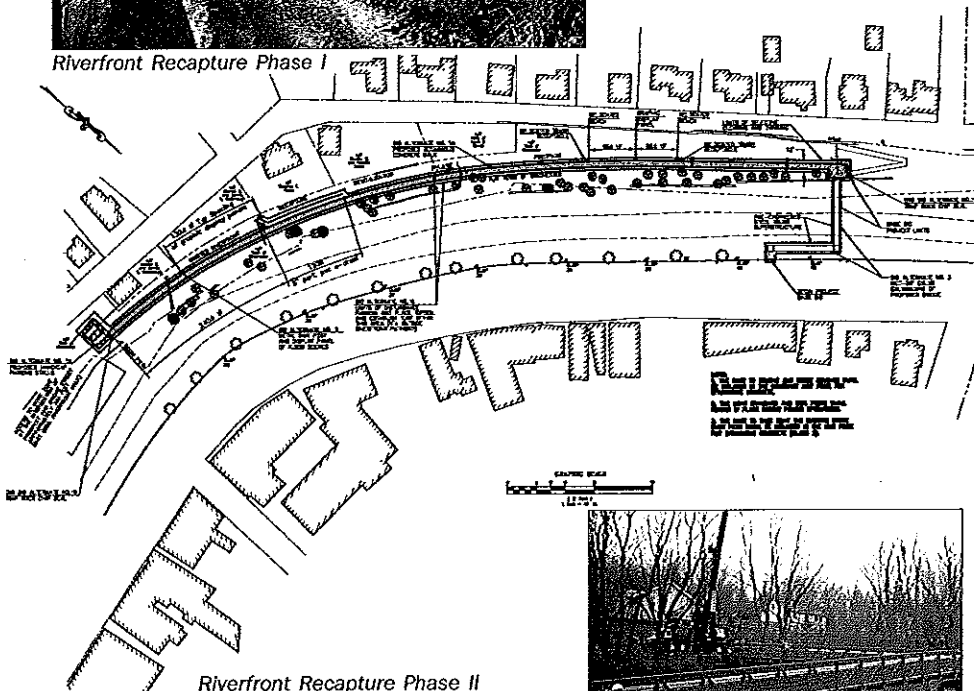
PARK & FOOTBRIDGE DESIGN



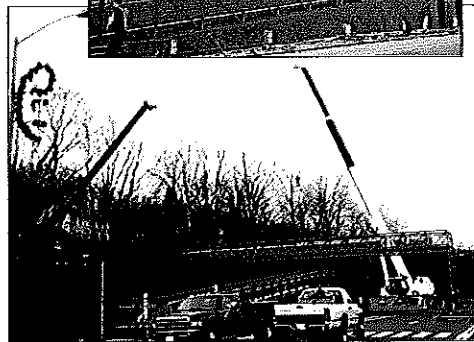
Winsted Riverfront Recapture and Revitalization Phases I & II Winchester, Connecticut



Riverfront Recapture Phase I



Riverfront Recapture Phase II



Phase I

- New stone dust footpath along abandoned railroad bed, including landscaping, lighting & signage
- Constructed at a cost of \$90,000

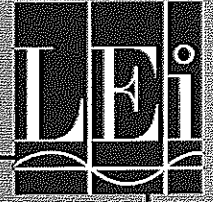
Phase II

- Extension of footpath and replacement of an existing footbridge over the Mad River
- Constructed at a cost of \$300,000

Lenard Engineering, Inc.
Civil, Environmental and Hydrogeological
Consultants

EO-02 Rev 10-26-08

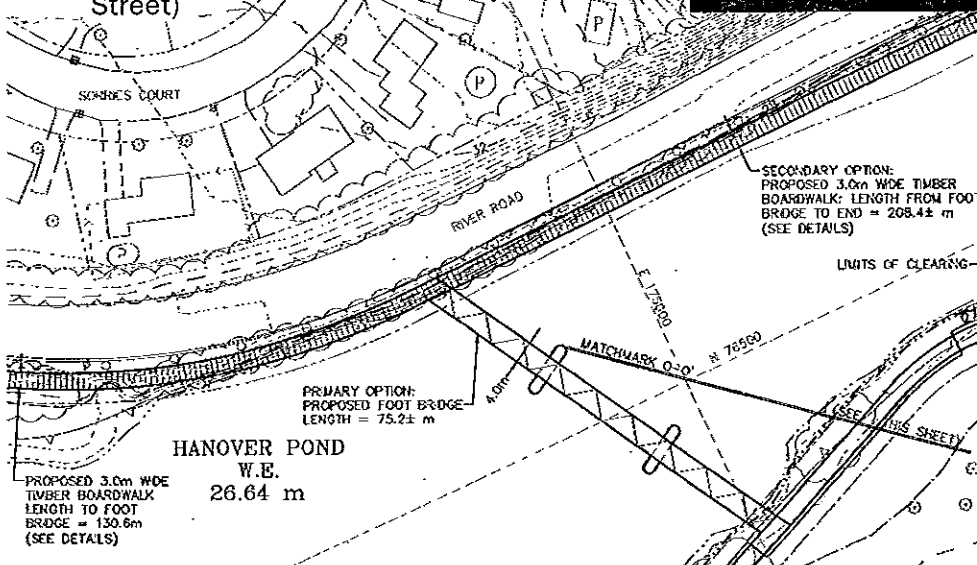
RECREATIONAL TRAIL DESIGN



Linear Bicycle Trail Phases II & III Meriden, Connecticut

Phase II – Final Design

- 1,300 LF along former railroad right-of-way
- 2 new 40-foot bridges prefabricated steel superstructures, concrete abutments
- 1 new prefabricated steel bridge using existing stone abutments
- 1 new timber bridge deck over existing rails on 70-foot trestle
- Parking at western end (North Wall Street), existing playground at eastern terminus (Bee Street)



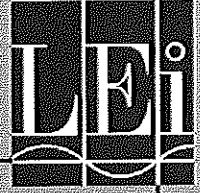
Phase III – Schematic Design

- Investigate 3 alternative routes for 2-mile trail between Wallingford town line and Hanover Pond
- Boardwalk along southern shore of pond to keep trail off high-volume River Road
- Pedestrian bridge over Quinnipiac River
- Phased construction anticipated

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Civil, Environmental and Hydrogeological
Consultants

POCS Rev 10/26/09

RECREATIONAL FACILITIES

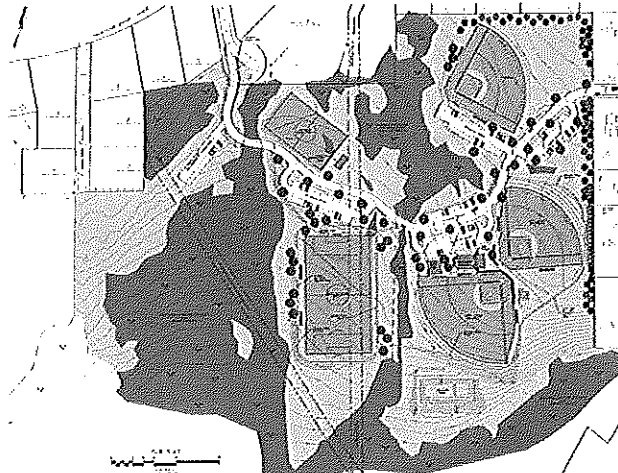


Dr. Arthur & Dr. Martha Pappas Recreation Complex Design, Permitting & Construction Services Auburn, Massachusetts

The Pappas Recreation Complex Project includes baseball, softball and soccer/football fields, a small outdoor amphitheater, walking trails, approximately 175 parking spaces and access roads. LEI oversaw



wetland delineation services, provided survey for location of flags, and performed permitting services for an Abbreviated Notice of Resource Area Delineation (ANRAD) with the Auburn Conservation Commission resulting in the certification of wetland areas in preparation for site design. The 20-acre site is located on 90+ acres owned by the Town of Auburn.



Summary

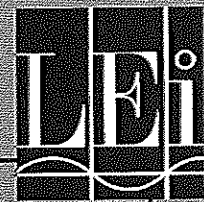
- \$4.3M sports & recreational facility located on 20-acre corner of 90-acre parcel of town-owned land.
- Recreational facilities includes two soccer, one softball and two baseball fields (including synthetic turf fields), field and roadway lighting, and almost one mile of walking trails.
- Outdoor amphitheater, concession, pavilion, and restroom facilities building.
- Access roadways and five parking areas provide parking for 175+ vehicles.
- Stormwater management and landscaping including vegetative buffers that screen residential properties.
- LEI provided wetland services, survey, design, permitting, construction bid documents, bidding assistance, construction administration and inspection.



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Consultants

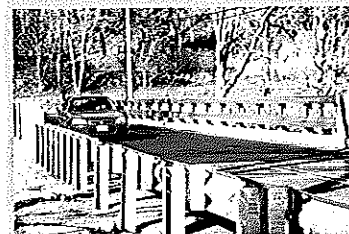
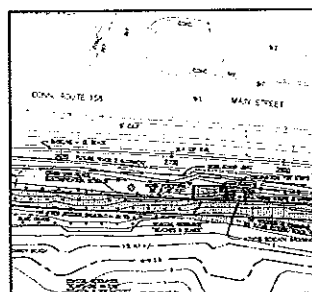
POC9 Rev. 9/16/12

ROADWAY & STREETSCAPE DESIGN



With more than 30 years of experience in transportation planning and streetscape, roadway, drainage and utility design, LEI's professional staff have the experience to handle any roadway engineering design project. Our in-house team can provide services ranging from hydrogeologic and environmental analysis to landscape architectural streetscape design, and complete road and bed engineering design including culverts, bridges, retaining walls and utilities. Additionally, LEI engineers have worked closely with clients to find innovative solutions to road design issues that have saved as much as 50% of estimated construction costs.

Whether seeking a pedestrian-friendly atmosphere for a stroll or a scenic byway with picturesque views, LEI staff have the experience and ability to create streetscape designs that integrate seamlessly with fully functional roadways to satisfy community planning goals. Rural streetscapes incorporating landscape screening and planned view corridors can be handled as skillfully as a pedestrian friendly retail core with plantings, lighting, street furniture and parking.



RELEVANT PROJECTS:

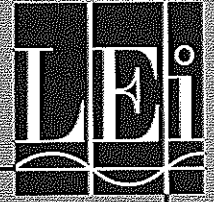
- Preston Road Reconstruction, Plymouth, Connecticut
- New Access Road to Regional High School No. 7, Winchester/Barkhamsted, Connecticut
- Center Street Reconstruction, Windsor Locks, Connecticut
- Streetscape, Main & Church Streets, Voluntown, Connecticut
- Multiple Roadway Reconstruction, Naval Submarine Base New London, Groton, Connecticut
- Road Reconstruction & Streetscape, Water & Union Streets, Danielson, Connecticut
- Wakefield Boulevard/William Street/Guy Street Reconstruction, Winsted, Connecticut

For more information, contact: James Bancroft, P.E., General Manager, at 860-659-3100 or Karina Quinn, P.E., Associate at 508-721-7600 or visit LEI at www.lenard-eng.com.

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Civil, Environmental and Hydrogeological Consultants

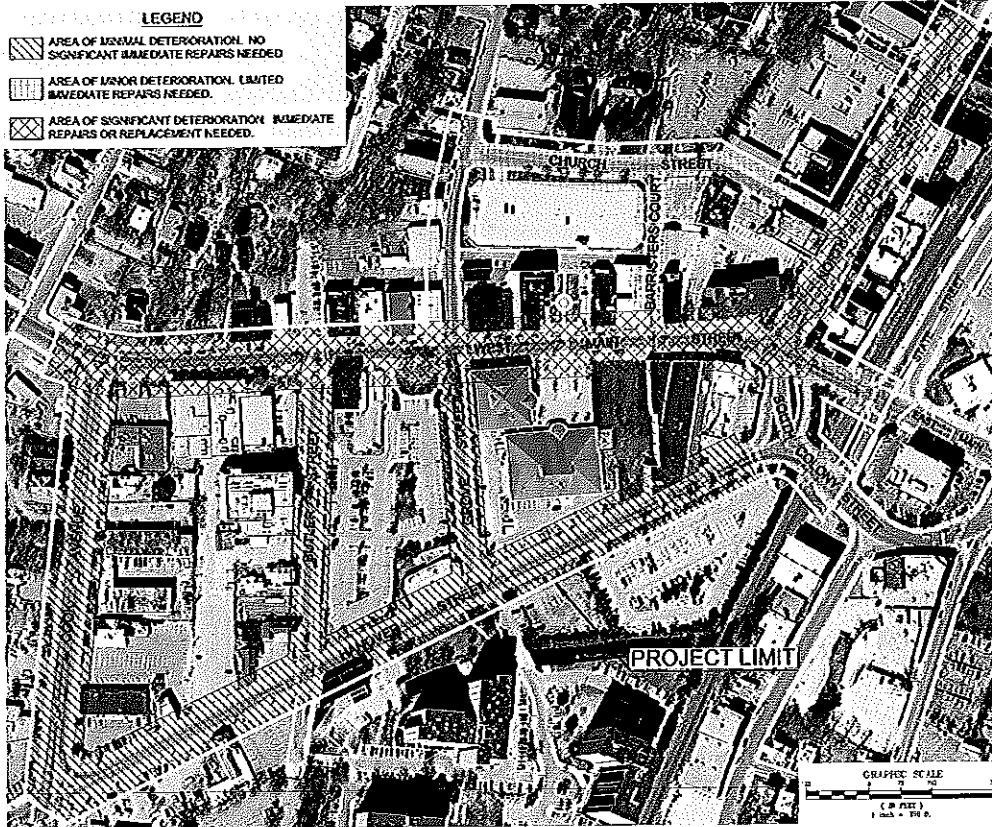
DOT/PA 11/1506

STREETSCAPE & PEDESTRIAN ACCESS IMPROVEMENTS



Streetscape Rehabilitation and Pedestrian Access Improvements Downtown Area Meriden, Connecticut

LEI prepared a report describing cost-effective improvements to rehabilitate streetscape elements in downtown Meriden. Designed and constructed in the early 1990s, the original streetscape project included drainage, curbing, sidewalks, crosswalks, street trees, lighting, and traffic control features such as signals and bump-outs. Several of these elements had withstood the test of time, but others posed maintenance problems and had deteriorated to the point that they detracted from the appearance of the downtown area and threatened pedestrian safety.



The primary areas of concern were the bump-outs, crosswalks, tree grates, curbing, and sidewalks. Street trees and brick crosswalks were provided primarily along West Main and Colony Streets. The remaining streets consisted primarily of concrete sidewalks with varying score joints as design elements, concrete curbing, and painted crosswalks. West Main Street, Colony Street and Barristers Court had granite curbing with a combination of concrete and brick pavers which had crumbled over time.

Short-term recommendations addressed immediate repairs to eliminate hazards for pedestrians and maintenance crews.

Long-term recommendations focused on replacing streetscape features with alternative construction materials that offered the same visual appeal but were more in concert with established maintenance practices.

LEI prepared cost estimates for all recommended improvements.

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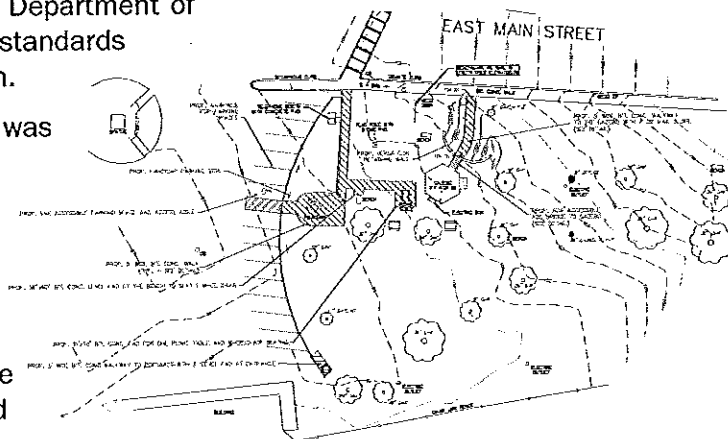
P21, Rev. 6/11/13

Lenard Engineering, Inc. (LEI) was selected to provide complete design and construction administration services for the Town of Warren, MA. The project was administered through the Pioneer Valley Planning Commission.



Professional design services provided by LEI include site

In addition, LEI was involved in the construction phase of this project, providing shop drawing review services, on site inspections and final approval.

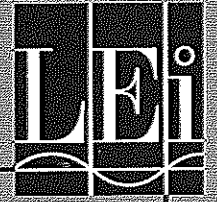


- Complete site planning, civil and structural engineering, land survey, and construction services
- Revised pedestrian routing throughout downtown common and nearby Cutter Park
- Public involvement/outreach
- ADA committee review and approval
- New accessible timber bridge access to Town gazebo
- New and renovated wheelchair ramps at critical downtown intersections
- Construction completed on schedule and within original budget



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Consultants
P.O. Box 10315-12

STREETSCAPE IMPROVEMENTS

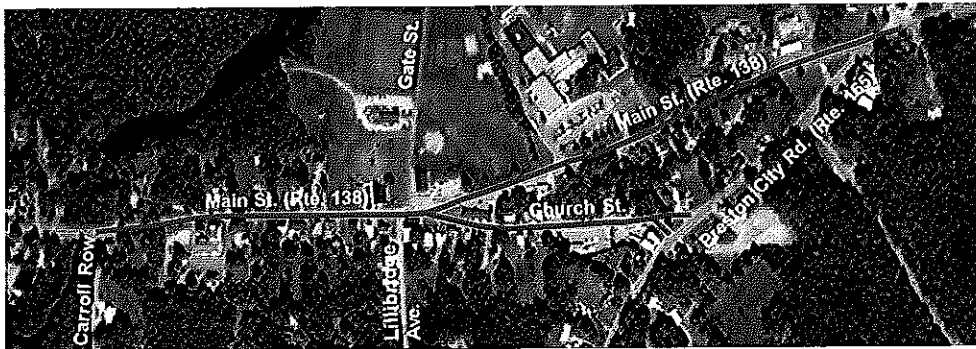


Main Street (CT Route 138) & Church Street Streetscape Improvements Voluntown, Connecticut

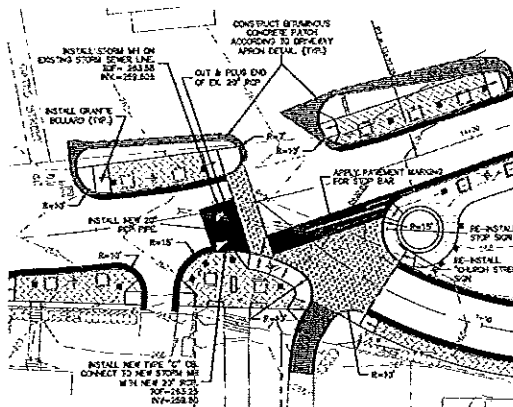
Lenard Engineering, Inc. (LEI), working as subconsultant to Ferrero Hixon Associates, assisted the Town of Voluntown in the design of the beautification of a 4,200 LF portion of Main Street and Church Street in the downtown Voluntown area.



The project started with the generation of several concept design alternatives and their presentation to the public at Municipal Public Information Meetings. Subsequently, the project evolved into preliminary and final design phases including a detailed survey and base mapping of the area and project layout, grading, storm drainage, streetscape, planting, and furnishing plans.



Also included in the assignment were the preparation of preliminary and final phasing, quantity takes, cost estimates, and the compilation of bidding and contract documents. Construction of Phase I of the project was completed in 2007.



Phase I Project Summary

- Aesthetic and pedestrian and traffic safety streetscape improvements
- Unit paver pedestrian walkways, textured concrete crosswalks, and stamped concrete pavement parking areas
- Funding through Small Town Economic Assistance Program (STEAP) Grant
- Ferrero Hixon Associates is the lead consultant for this Town Center / Corridor Plan
- Completed in 2007

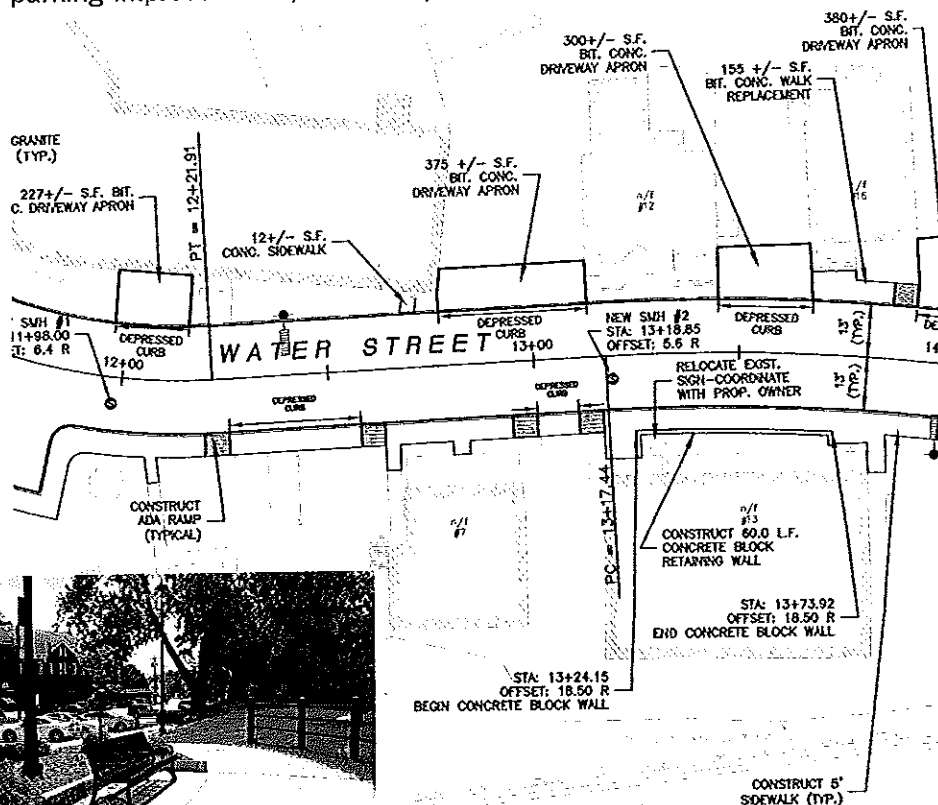


Lenard Engineering, Inc.
Civil, Environmental and Hydrogeological
Consultants

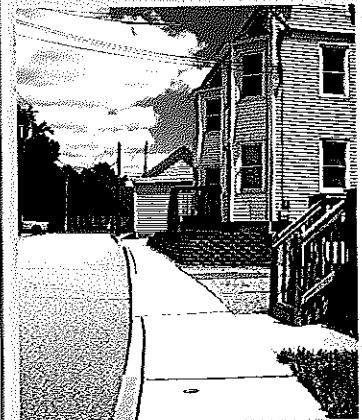
R11 Per 1-05-11

LEI

The Town of Killingly reconstructed Water Street adjacent to the Danielson Downtown Business district to improve traffic circulation and attract new business to the area. The project included the realignment of approximately 1,200 L.F. of Water Street for two-way traffic, realignment of the Main Street-Water Street intersection, construction of a new connecting road from the north end of Water Street to Commerce Avenue, and the construction of new concrete sidewalks to establish links to the Quinebaug River Trail and the Five Mile River Pond pedestrian bridge. Also included were drainage and parking improvements, streetscape enhancements, and lighting design.



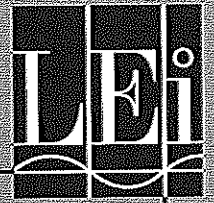
- Full-depth roadway reconstruction of Water and Union Streets including replacement and relocation of water mains and sanitary and stormwater sewers
- Funding through Small Cities Community Development Block Grant
- Construction budget of \$1.2M for entire project. Phase I—the northern half of the project—has been constructed for approximately \$600,000.



- **References:**
David Capacchione, P.E.
Town Engineer
(860) 779-5351
Bruce Chimento, P.E.
Assistant Town Engineer
(860) 779-5351

Lenard Engineering, Inc.
Civil, Environmental and Hydrogeological
Consultants

STREET IMPROVEMENTS



Main Street Enhancement Project Winsted, Connecticut

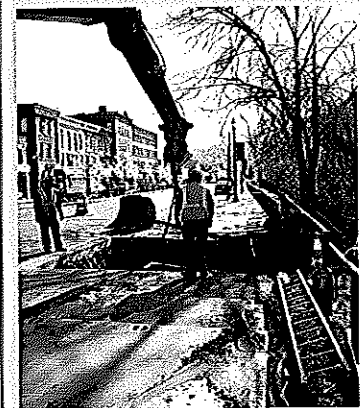
LEI provided complete survey, design, permitting, and construction services for the Phase 2 of Main Street Enhancement in Winsted,



Connecticut. The project included several pedestrian safety and aesthetic improvements to the downtown area, including:

- Replacement of sidewalks on the north side of the road with new concrete sidewalks with a stenciled brick pattern.
- Installation of new sidewalks on the south side of the road where none existed. These sidewalks also have a stenciled brick pattern.
- Installation of a center median with landscaping pavers and planting beds.
- New line striping and signage to replace worn striping and to allow the realignment required by the new median.
- Drainage improvements as required to accommodate the new sidewalk.
- Decorative lighting to replace the large cobra-head style lights.

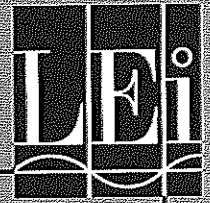
The project required staged construction due to the heavy traffic volume on Main Street (State Route 44). The project also required careful coordination with local merchants and town officials to minimize the impact to local businesses. As with any urban area, the work site was congested with utilities and LEI was required to react quickly when issues arose, such as encountering an abandoned gasoline underground storage tank, utility lines that were not properly marked, and other unforeseen discoveries.



The \$1.05 million project was constructed in 2013. The town paid 20% of the cost and the remaining 80% was provided through federal funding administered by the Connecticut Department of Transportation.

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Consultants

STREET IMPROVEMENTS



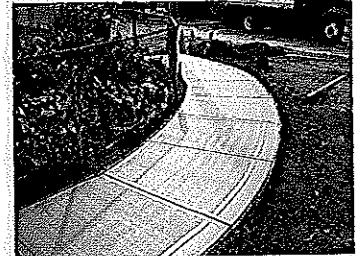
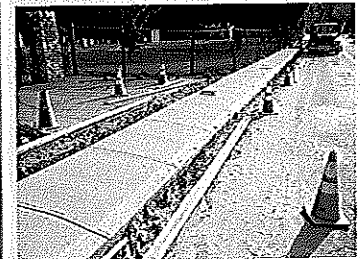
Everett Street Sidewalk & Roadway Improvement Project Easthampton, Massachusetts

LEI provided engineering design and construction phase services for a phased neighborhood infrastructure improvement project and successfully assisted the City in procurement of DHCD/CDBG construction funding for Phase I. Work included reconstruction of approximately 4,000 LF of sidewalk, roadway, and curbing; replacement



of 2,300 LF of sanitary sewer main with associated structures and services; replacement of 400 LF of water main; and installation of 1,000 LF of new and replacement drainage pipe and associated structures. The City is awaiting notification of funding allocation for Phase II.

Phase I completed in October 2012 with LEI having provided construction administration and construction observation services.



- Engineering, Phase I: \$75,347
- Total estimated project construction cost: \$1.2M
- Phase I construction cost: \$508,000.

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Civil, Environmental and Hydrogeological
Consultants
P24Rev 9-18-13

Examples of Recreational Trail Project Experience

City of Meriden, Connecticut

- **Linear Bike Trail (Phases II & III)**

Phase II of the project includes approximately 3,000 feet of trail between Baldwin Pond and Bee Street. Phase III includes the westerly bank of the Quinnipiac River from the Wallingford town line to Hanover Pond, approximately, 7,000 feet long.

- **Quinnipiac River Trail, Phase II**

Construction is presently underway for a 5,400 linear foot long bicycle/pedestrian trail along Hanover Pond and Sodom Brook for the City of Meriden. Designed by LEI, the facility features a 10-foot wide bituminous trail with 2-foot wide soft shoulders on either side, the reconstruction of an existing parking lot, and associated landscaping. The project also includes the construction of a 48-foot long new pedestrian bridge and the rehabilitation of a 19-foot long existing service bridge over Sodom Brook.

Paul Blanchette
City of Meriden
142 East Main Street
Meriden, CT 06450
203.672.4959

Town of Winchester

- **Riverfront Recapture Linear Park & Footbridge, Phases I & II**

LEI prepared plans and specifications and conducted construction inspection on this project. The park included a 1,000 -foot walkway trail along an old railroad bed and a 190-foot two-span footbridge across the Mad River in downtown Winsted.

Ray Carpentino
Town of Winchester
Winchester, CT
860.738.6593



Examples of Recreational Trail Project Experience (continued)

Town of Auburn, MA

- **Pakachoag Meadows Athletic Fields**

The project included wetland permitting services for the Auburn Recreation Committee for 25-acre portion of town owned property, as well as conceptual and final site designs for the athletic park including baseball, softball and football/soccer fields, walking trails, a small outdoor amphitheater, parking areas, access roadway and other site amenities, in preparation design development. Construction was completed in 2012.

Dr. Arthur Pappas

Chairman Auburn Recreation Committee
Town of Auburn
104 Central Street
Auburn, MA 01501
508.856.2171

Town of Thompson, Connecticut

- **Heritage Walkway and Park, Phases I & II**

Phase I of the project included the design of a walkway, a cantilevered boardwalk over a former mill tailrace, 125-foot long pedestrian bridge, and lighting for a linear river park. For Phase II of the project, LEI was retained to design a park access road, parking lot, 6,500 feet of walkway, sidewalks, beach area, and lighting for an area of the park between a library and a former mill pond. The project was completed in 2000 at a total cost of approximately \$875,000.

- **Bull Hill Recreational Facility Preliminary Site Plan**

The Town of Thompson retained LEI to prepare plans for the development of a large parcel for soccer fields and related facilities. The project included a regulation sized field with grandstand, two smaller practice fields and eight age group smaller fields. Also included were locker room and storage room facilities, water supply and sewage disposal facilities and related drainage design and site development work.

Jeffrey L. Bicknell

Director of Economic Development
Town of Thompson
815 Riverside Drive
North Grosvenordale, CT 06255
860.923.9475



Streetscape Design Project References

Civic Campus Enhancement Project – Town of Essex, Connecticut

Preliminary and Final Designs, and Bidding Phase services for the renovation/ reconstruction of the Town of Essex "Civic Campus" behind the Town Hall, including the reconstruction of two municipal parking lots, a tennis court, playscape, and 500 linear feet of town street. The project included new utility relocations, street re-alignment, new curbs and concrete sidewalks, streetscape, lighting design.

Reference: Norman M. Needleman, First Selectman
Telephone: 860-767-4340

Water Street Reconstruction in Downtown Danielson, Killingly, Connecticut

The project entailed Preliminary and Final Designs of the full reconstruction of Water Street. The design included full demolition of the existing facilities, new horizontal and vertical street alignment, new sanitary sewer line with house connections, concrete curbs and sidewalks, street lights and streetscape/ street furniture.

Reference: Mary Bromm, Community Development Coordinator
Telephone: 860-779-5355

Quinnipiac River Trail – Phase 2, Meriden, Connecticut

Preliminary and Final Designs, regulatory approvals and construction related services for 5,400 linear foot multi-use paved trail with associated infrastructure of a retaining wall and two highway bridges, the renovation and expansion of a municipal parking lot, and landscaping.

Reference: Howard Weissberg, Associate City Engineer
Telephone: 203-630-4022

Prospect Street Roadway Reconstruction Project, Winchester, Connecticut

Prepared design plans, specifications and cost estimate for roadway reconstruction and realignment including infrastructure improvements and retaining wall design. Attended and presented plans at informal informational meeting for neighborhood and local officials. Also presented plans at a formal public hearing at the 50% design phase. Funding through ConnDOT Surface Transportation Program (roadway improvements) and Small Cities Community Development Block Grant (utilities).

Reference: Ellen Miller, Winchester Planning & Zoning Office
Telephone: 860-379-3818



Lenard Engineering, Inc.

Public Presentation & Participation Skills References

Project Name & Description

Contact

- **Prospect Street Roadway Reconstruction Project
Winchester, CT**

Ellen Miller (860) 379-3818
Winchester Planning & Zoning Office

Prepared design plans, specifications and cost estimate for roadway reconstruction and realignment including infrastructure improvements and retaining wall design. Attended and presented plans at informal informational meeting for neighborhood and local officials. Also presented plans at a formal public hearing at the 50% design phase. Funding through ConnDOT Surface Transportation Program (roadway improvements) and Small Cities Community Development Block Grant (utilities).

- **Laurel Hill & Station Road Public Water Supply Study
Brookfield, CT**

Jerome Murphy (203) 775-7301
First Selectman, Town of Brookfield

Evaluated potable drinking water for an area of town with numerous contaminated wells. Attended public presentation session with residents and Connecticut DEP officials to review study results and incorporate public comments into final report.

- **Main Street Sewer Extension Project
Hardwick, MA**

Sherry Patch (413) 477-6197 x101
Hardwick Board of Selectmen's Office

Prepared design, performed construction administration and inspection and generated as-built drawings for 1,200 LF of low-pressure and gravity sanitary sewer main extension. Attended and presented at public meeting held with Board of Selectmen, town staff, and residents to describe the sewer extension project, describe likely impacts as a result of construction, and solicit public comments to incorporate into the final design.

- **New Highway Garage & Sand/Salt Storage Shed Project
Warren, MA**

Gary Odiorne (413) 436-7677
Warren Highway Department

Prepared schematic design and partial design development for new highway garage facility. Assisted Highway Department and Building Committee with Annual Town meeting presentation. Also attended and presented at public meeting with Board of Selectmen, town staff and the public to discuss project costs and impacts.



General References

Lenard Engineering, Inc. is pleased to offer the following partial list of references.

Ms. Barbara Henry
First Selectwoman
Town of Roxbury
Phone: (860) 354-9938

Mr. George Kraus
Architectural & Engineering Services
University of Connecticut
Phone: (860) 486-3236

Mr. Art Simonian
Town Engineer
Berlin Water Control Commission
Phone: (860) 828-7014

Ms Anne Peters, Esq.
Carmody & Torrance, LLP
Waterbury, CT
Phone: (203) 575-2647

Mr. Scott F. Ryan
Office of Dam Safety
Massachusetts Dept. of Conservation & Recreation
Phone: (508) 792-7716, ext. 607

Mr. Roger Cannavaro
Street Department Superintendent
Town of Washington
Phone: (860) 868-7986

Mr. John Guszowski, Director
Housing & Community Development
Town of Thompson
Phone: (860) 923-9475 x130

Mr. Neftali Soto
Chief Utilities Engineer
Town of Waterford
Phone: (860) 444-5886

Mr. Vincent Caterino
Superintendent
Town of Watertown Water & Sewer Authority
Phone: (860) 945-5299

Mr. Richard Nalette, Chairman
Water & Sewer Commission
Town of Winchester
Phone: (860) 307-3936

Mr. Daniel Jerram
First Selectman
Town of New Hartford
Phone: (860) 379-3389

Mr. Thomas P. Carlone, AIA
Architect & Former Director of Planning & Engineering
Western Connecticut State University
Phone: (860) 637-4183

Mr. Gilbert Bligh
Director of Water
Town of New Britain
Phone: (860) 826-3535

Mr. Chris Dunphy
Pioneer Valley Planning Commission
West Springfield, MA
Phone: (413) 781-6045

Additional references are available on request.



Lenard Engineering, Inc.

Section 5

*Planning / Design & Implementation of
Northern Section of Bluff Point to Preston Tri-Town Trail
Ledyard, Connecticut*



■ Fee Proposal



Lenard Engineering, Inc.
Civil, Environmental & Hydrogeological Consultants

ATTACHMENT - BLUFF POINT TO PRESTON TRI-TOWN TRAIL, LEDYARD, CT

Lenard Engineering, Inc.
March 19, 2014

Item and Task	Principal \$155	Project Manager \$133	Project Engineer \$114	Land Surveyor \$99	Technician \$94	Clerical \$61	Total LEI Labor	Direct Cost Estimate (Cost + 10%)	Subconsultant Fee Estimate (Cost + 10%)	Line Item Total	Phase Totals
1. Review Existing Studies and Documents											
Investigate / review Town records		1	2	3			\$ 658.00	\$ 55.00		\$ 713.00	
Investigate / review DEEP records				3			\$ 297.00	\$ 70.00		\$ 367.00	
Investigate / review DOT records				3			\$ 297.00	\$ 70.00		\$ 367.00	
Investigate / review Utility Co. ROW documents				3			\$ 297.00	\$ 70.00		\$ 367.00	\$ 1,814.00
2. Initial Meeting with the Committee											
Prepare base map with aerial contours for discussion		1	2	3			\$ 658.00			\$ 658.00	
Prepare handout packages of acquired documents			2				\$ 228.00			\$ 228.00	
Attend meeting, make presentation		4					\$ 532.00	\$ 55.00		\$ 587.00	
Prepare notes and minutes		1				2	\$ 255.00			\$ 255.00	\$ 1,728.00
3. Prepare Action Plan Identifying Critical Steps											
Identify wetland impacts		1	1		1.5		\$ 388.00			\$ 388.00	
Investigate environmental issues			2		1		\$ 322.00			\$ 322.00	
Conduct permit determination		1	2				\$ 361.00			\$ 361.00	
Identify structure needs		2	2				\$ 494.00			\$ 494.00	
Identify ROW impacts		1	2	3			\$ 658.00			\$ 658.00	
Summarize critical steps		1			2	3	\$ 504.00			\$ 504.00	\$ 2,727.00
4. Prepare Concept plan											
Prepare concept horizontal and vertical alignments			2		6		\$ 792.00			\$ 792.00	
Design typical sections			1		1		\$ 208.00			\$ 208.00	
Prepare concept civil/structural details		2	6		6		\$ 1,514.00			\$ 1,514.00	
Prepare concept Water Handling Plan					1		\$ 94.00			\$ 94.00	\$ 2,608.00
5. Assist with ROW Acquisitions											
Prepare schematic/preliminary easement and taking plans		1	4	12			\$ 1,777.00	\$ 55.00		\$ 1,832.00	
Assist the Town in the acquisition process, as needed		2	8	4		4	\$ 1,818.00			\$ 1,818.00	\$ 3,650.00
6. Prepare Cost Estimates for Potential Improvements											
Take preliminary quantities			2		4		\$ 604.00			\$ 604.00	
Prepare preliminary construction cost estimate		1	4			2	\$ 711.00			\$ 711.00	\$ 1,315.00
7. Attend Public Meeting to Define Improvement Program											
Prepare Power Point slide show and presentation material			2			4	\$ 472.00			\$ 472.00	
Attend PI meeting, make presentation, respond to questions		4					\$ 532.00	\$ 55.00		\$ 587.00	
Prepare meeting minutes		1				1	\$ 194.00			\$ 194.00	\$ 1,253.00
Project Totals:	0 Hours	24 Hours	44 Hours	34 Hours	22.5 Hours	16 Hours	\$ 14,665.00	\$ 430.00	\$ -	\$ 15,095.00	\$ 15,095.00