



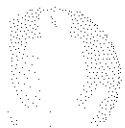
ANCHOR
ENGINEERING SERVICES, INC.



REQUEST FOR PROPOSAL

PLANNING/DESIGN & IMPLEMENTATION OF NORTHERN
SECTION OF BLUFF POINT TO PRESTON TRI-TOWN TRAIL

PREPARED FOR
TOWN OF LEDYARD, CONNECTICUT



PREPARED BY

ANCHOR
ENGINEERING SERVICES, INC.



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ANCHOR

ENGINEERING SERVICES, INC.

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41 Sequin Drive • Glastonbury, CT • 06033

March 19, 2014

Mr. Charles Karno, Director of Planning & Development
Town of Ledyard
741 Colonel Ledyard Highway
Ledyard, CT 06339

**Re: Request for Proposal
Planning, Engineering, Architectural Services: Tri-Town Trail Northern Section**

Dear Mr. Karno:

Anchor Engineering Services, Inc. is pleased to provide the Town of Ledyard with a proposal to assist the with the Planning, design development and construction administration services for the northern section of the proposed Bluff Point to Preston Tri-Town Trail. Our firm is excited about the opportunity to provide professional services to the Town. Enclosed please find our qualification package containing information on our firm, our project team including sub-consultants relevant project experience and our fee proposal identifying both lump sum fees and hourly rates.

Anchor Engineering has extensive experience providing engineering and landscape architectural design services to our numerous municipal clients. This work includes pedestrian access trails, town center improvements, recreation opportunities, roadway design including realignment and traffic calming and infrastructure improvements. Our success lies with understanding the critical issues to our clients and timely execution of project tasks to provide our clients with on-time and on-budget results.

Our in-house engineering and landscape architecture, environmental engineering and construction management departments are highly experienced in recreational site design, site investigation and compliance monitoring and construction administration and inspection, respectively. In addition, our survey department has prepared numerous easement maps and has an excellent working relationship with Northeast Utilities while providing them with On-Call survey services.

Enclosed please find five (5) hardcopies of our proposal package. We believe that you will find Anchor has the technical competency, capacity, proven record and firm knowledge of Federal, State, and Municipal procedures to assist the Town with this project. We are excited and look forward to an opportunity to discuss our interest and qualifications further.

Sincerely,

Mark M. Zessin, P.E.
President

Enc.

Kevin R. Grindle, ASLA, PLA
Project Manager

INFORMATION ABOUT ANCHOR ENGINEERING





MISSION STATEMENT

Anchor

n. a reliable or principal support

Engineering

n. the science of putting scientific knowledge to practical use

Services

n. contributions to the welfare of others

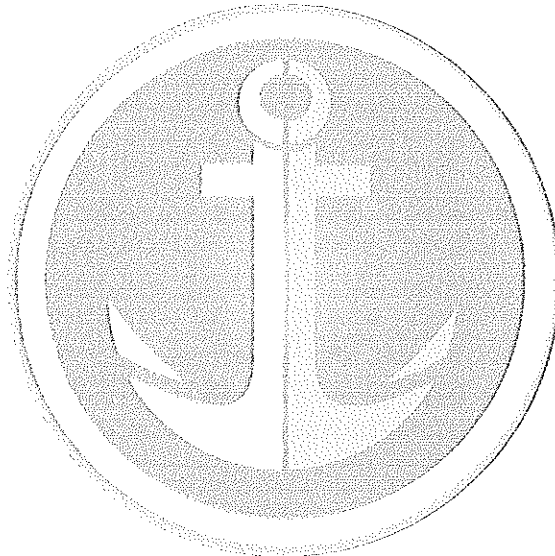
The Mission of Anchor Engineering Services, Inc. is to provide reliable and responsive engineering, consulting, and surveying services that contribute value to our clients' projects.

To achieve our Mission, we utilize our technical expertise and experience to:

Listen to and assess our clients' specific needs and goals,

Advise our clients on how to best achieve these goals, and

Provide the necessary services in an efficient, cost-effective manner.





BACKGROUND STATEMENT

Our team of experienced engineers came together in early 1993 to form Anchor Engineering Services, Inc. Anchor Engineering is a progressive civil and environmental consulting firm comprised of a staff with strong educational and professional backgrounds. Our team of professionals has experience working in both the public and private sectors, and we maintain an excellent working relationship with the Connecticut Department of Transportation (CTDOT) and the Connecticut Department of Energy & Environmental Protection (CTDEEP). Anchor Engineering provides a multifaceted team able to complete projects ranging from solid waste disposal facilities to roadway, subdivision, and site and bridge design.

Anchor Engineering provides clients with state of the art solutions by staying on top of the latest technologies and engineering concepts. Our close interaction with the CTDOT on municipal roadway and bridge projects and with the CTDEEP on design, permitting, and monitoring projects keeps our staff well-informed in a constantly changing regulatory landscape. Our highly automated office utilizes the latest available technologies including Computer-Aided Design and Drafting (CADD) software, Geographic Information Systems (GIS), and the latest document creation software enabling our staff to provide efficient design services to our clients.

Anchor Engineering Services, Inc. is licensed by the State of Connecticut and other states to perform professional engineering services and land surveying. Additionally, we provide licensed environmental professional services and licensed landscape architect services in Connecticut. Anchor Engineering is pre-qualified by the CTDOT to provide several engineering design and inspection services, and we are familiar with other state and local regulatory agency requirements and procedures as well.

Our staff is active within professional organizations, such as the American Society of Civil Engineers (ASCE), Connecticut Society of Civil Engineers (CSCE), Connecticut Association of Land Surveyors (CALS), Environmental Professionals of Connecticut (EPOC), and National Ground Water Association (NGWA), Solid Waste Association of North America (SWANA), American Society of Landscape Architects (ASLA), and the Connecticut Chapter of the American Society of Landscape Architects (CTASLA). These memberships keep us up-to-date with the ever-changing fields we practice in.

Our firm is committed to understanding and fulfilling our clients' needs, which we feel separates us from many other firms. Anchor Engineering has a high percentage of employee ownership in the company. The working owners have the desire to do their best, while being supported by an energetic, highly experienced professional staff.

Anchor Engineering Services, Inc. has grown from a staff of four in 1993 to approximately twenty-three persons today, including our working owners, two associates, two field survey crews, and a dedicated staff of office personnel. Our firm is a state certified "small business."



PROJECT APPROACH





PROJECT APPROACH

PROJECT UNDERSTANDING

The Ledyard Tri-Town Trail Committee and the Town of Ledyard (Town) is proposing to construct the northern section of the Bluff Point to Preston Tri-Town Trail from Route 214 in Ledyard to Preston Community Park on Route 117 in Preston. This section of trail is approximately three (3) miles in length and is part of a 14-mile trail extending from Bluff Point State Park in Groton to Preston Community Park.

The proposed trail route identified in the Tri-Town Trail Master Plan dated 2009 begins on Route 214 in Ledyard, directly opposite Whalehead Road and extends through land owned by multiple public agencies including Groton Public Utilities and Northeast Utilities along with private landowners. The trail is proposed to traverse Joe Clark Brook and associated floodway and floodplain, a significant wetland systems, Billings Avery Brook, significant steep slopes possibly requiring rock excavation and thick vegetation along with portions of habitat identified on the current CTDEEP Natural Diversity Database map before terminating at Preston Community Park.

The proposed work will be funded through a Recreational Trails Grant funded through the CTDEEP Bureau of Outdoor Recreation in the amount of \$160,000 total project cost.

Based upon our review of the RFP package, site visits and conversations with Town staff, Anchor Engineering Services Inc. (Anchor) understand the scope of work will consist of the following items:

ANTICIPATED SCOPE OF SERVICES

TASK 1: REVIEW EXISTING STUDIES AND DOCUMENTS

Anchor will examine the existing Bluff Point to Preston Trail Committee Tri-Town Trail Master Plan Prepared for the Southeast Connecticut Council of Governments, dated June 30, 2009, along with the review provided by Vanasse Hangen Brustlin, Inc. of the 2012 Transportation Enhancement Act application. The conclusions and recommendations of these documents will be utilized to assist the Committee with preparing an action plan for this project. Review of additional materials will be billed on an hourly rate basis.

TASK 2: INITIAL MEETING WITH THE COMMITTEE

Anchor will attend an initial kick-off meeting with the Town to establish points of contact and develop a project understanding including timelines, project related goals and key design elements.

TASK 3: PREPARE ACTION PLAN

Anchor will prepare an action plan which identifies the following critical steps for the project;





PROJECT APPROACH

- Design decisions and constraints such as trail property ownership and naturally occurring features including waterways, flood elevations, wetland systems, steep slopes and rock outcrops.
- Grant restrictions and requirements including timelines, disbursement of funds, and utilization of Small & Disadvantaged Business Enterprises & project closeout procedures.
- Necessary Right of Way acquisition steps including determinations of property ownership and limits of necessary easements so that the Town may engage in negotiations related to easement acquisition.
- Identify the potential for donated services such as the timing, tasks and scope of work assigned to volunteers for Town coordination.

TASK 4: PREPARE CONCEPT PLAN

Anchor will prepare a conceptual site layout depicting improvements and identifying any conflicts or additional items to be considered. During this task we anticipate the following services will be performed;

- Attendance at one (1) conceptual layout review meeting with project team
- Preparation of one (1) revised site layout plan incorporating review comments
- Attendance at one (1) follow-up site layout review meeting with the project team

TASK 4A: TOPOGRAPHIC MAPPING & RIGHT-OF-WAY A-2 SURVEY (ADDITIONAL SERVICES)

Anchor will provide topography based upon an aerial flight data and field reconnaissance necessary to ascertain the limits of existing Rights-of-Way within the subject area during the conceptual layout phase, suitable for wetland field mapping, design and construction related services and the compilation of existing condition basemapping.

TASK 4B: FIELD MAPPING OF WETLANDS (ADDITIONAL SERVICES)

Anchor will perform field mapping of wetlands in the project area utilizing topographic mapping. Wetland areas will be drawn directly onto the topographic map and will provide a detailed map upon which the final location of the trail can be established. Wetland areas outside of the R.O.W. but within proximity to the project can also be identified in this phase. No wetland flagging or survey work is anticipated as part of this task.

TASK 4C: FIELD DELINEATION OF WETLANDS (ADDITIONAL SERVICES)

Anchor will perform field delineation of wetlands in the project area. Wetland areas will be located utilizing flagged in the field and depicted on the final plans. Survey related services for this task will be billed on an hourly rate basis.





PROJECT APPROACH

Additional wetland services which may be required during the project permitting phase may include the documentation of Wetland Functions and Values and the preparation of Wetland Report along with recommendations for minimizing impacts, these items would be billed on an hourly rate basis as required.

TASK 5: ASSIST WITH RIGHT-OF-WAY ACQUISITIONS

Anchor will work closely with the Town to determine all necessary easements over public and private land required for this project. Based upon our project understanding, we're confident our excellent working relationship with Northeast Utilities will be beneficial. Anchor is an On-Call Survey Consultant to Northeast Utilities. During this task we anticipate providing the Town with all information needed to negotiate the required easements and all mapping necessary to file them with the respective agencies. Based upon the unknown scope of this task at this time we propose to perform this work on an hourly rate basis.

TASK 6: PREPARE COST ESTIMATES

Anchor will prepare cost estimates based upon the accepted site plan for the potential improvements. During this task we anticipate identifying material alternatives, cost saving opportunities and areas where donated services may be utilized.

TASK 7: ATTEND PUBLIC MEETING TO DEFINE IMPROVEMENT PROGRAM

Anchor will attend one (1) public meeting to present the site plans and receive public comment. Prior to the meeting, Anchor will work with the Town to establish discussion points, fine tune timelines and project related goals.

TASK 8: ASSIST WITH LOCAL AND OTHER GOVERNMENTAL APPROVALS

Anchor will compile a comprehensive list of Town, State and Federal approvals and permits required for this project and review them with the Town. Project approvals/permits anticipated at this time are the following:

- Local Inland Wetlands & Watercourse Commission Application
- Local Planning and Zoning Commission (CGS Sec. 8-24 referral)
- State of Connecticut DEEP Statewide Inland Wetlands Reporting Form
- State of Connecticut DEEP Natural Diversity Data Base State Listed Species Review
- State of Connecticut Department of Transportation Encroachment Permit
- State of Connecticut State Historic Preservation Office
- US Army Corps of Engineers Coordination
- State Flood Management Certification Coordination



PROJECT APPROACH

TASK 9: PREPARE CONSTRUCTION PLANS & SPECIFICATIONS

Following acceptance of a conceptual site layout, attendance at a public meeting and an establishment of priorities, Anchor will proceed with preparing construction plans and specifications in accordance with Town regulations. We anticipate the following services will be performed:

- Preparation of final site design plans including:
 - Existing conditions (survey)
 - Proposed site enhancements and layouts including trail locations
 - Trail Cross Sections
 - Water crossing details including boardwalks, bridges, etc.
 - Pedestrian access and circulation
 - Traffic safety improvements
 - Final grading
 - Surficial drainage improvements
 - Erosion and sedimentation controls
 - Construction details, specifications and notes
- Preparation of final construction cost estimate
- Attendance at one (1) final design review meeting with project team

Based upon the unknown scope of required handicap accessible ramps along with multiple water crossings which may require boardwalks, culverts and bridges we propose to perform the structural analysis and design of these features on an hourly rate basis at this time.

TASK 10: CONSTRUCTION ADMINISTRATION

Anchor will assist the Town with preparing bid documents for review and assisting in Construction Administration. The following items may be provided as part of this task and would be billed hourly;

1. Preparation of Contract Documents, Notice of Award, Notice to Proceed and Agreement
 - a. Construction plans and specifications
 - b. Bid Proposal and Agreement Forms with options for Bid Alternates
 - c. General conditions (EJCDC format)
 - d. Supplemental conditions as provided by the Grant Coordinator
 - e. Special Provisions
 - f. Prevailing wage rate information (if applicable)
 - g. Other grant compliance information provided by the Grant Coordinator
2. Coordination of bid advertising with the Town and the Grant Coordinator
3. Attendance at pre-bid meeting
4. Assist the Town in obtaining and reviewing bids
5. Attend contract signing



PROJECT APPROACH

6. Coordinate and attend pre-construction conference.
7. Make regular site visits to ensure that work is completed in a timely fashion and in accordance with plans and specifications.
8. Review and approve shop drawings and other submissions of the contractor(s) for compliance with the specifications.
9. Interpret contract specifications as required.
10. Review and recommend acceptance or rejection of periodic requests for contract progress payments.
11. Review requests for, recommend acceptance or rejection of, and prepare contract change orders.
12. Determine contract completion and recommend project acceptance and closeout.

TASK 10A: CONSTRUCTION INSPECTION (ADDITIONAL SERVICES)

Anchor Engineering would be pleased to provide the Town/Committee with a qualified inspector to perform construction inspection services on an as-needed basis.

1. Monitoring work quality and conformance of the work with contract documents
2. Preparing daily reports on work progress
3. Measuring quantities of work performed
4. Reporting construction inconsistencies with drawing and specifications



PROJECT APPROACH

PROFESSIONAL FEES

Anchor Engineering will complete the above scope of services for the fees described below. Hourly services will be performed per the enclosed Consultant Rate Schedule or as may be agreed upon prior to performing the work.

TASK 1:	REVIEW EXISTING STUDIES AND DOCUMENTS	\$1,250.00 Lump Sum
TASK 2:	INITIAL MEETING WITH THE COMMITTEE	\$1,500.00 Lump Sum
TASK 3:	PREPARE ACTION PLAN	\$1,800.00 Lump Sum
TASK 4:	PREPARE CONCEPT PLAN	\$19,800.00 Lump Sum
TASK 5:	ASSIST WITH RIGHT-OF-WAY ACQUISITIONS	Hourly
TASK 6:	PREPARE COST ESTIMATES	\$4,000.00 Lump Sum
TASK 7:	ATTEND PUBLIC MEETING TO DEFINE IMPROVEMENT PROGRAM	\$1,850.00 First Meeting (Additional - Hourly)
TASK 8:	ASSIST WITH LOCAL AND OTHER GOVERNMENTAL APPROVALS (Depending on Permit Requirements)	Hourly
TASK 9:	PREPARE CONSTRUCTION PLANS & SPECIFICATIONS	\$27,800.00 Lump Sum
TASK 10:	CONSTRUCTION ADMINISTRATION	Hourly
TOTAL OF FIXED FEES		\$58,000.00

ADDITIONAL SERVICES

TASK 4A:	TOPOGRAPHIC MAPPING & RIGHT-OF-WAY A-2 SURVEY	\$18,000 - \$22,800 Lump Sum Hourly or \$5,800.00 Lump Sum
TASK 4B:	FIELD MAPPING OF WETLANDS	\$800.00 Lump Sum
TASK 4C:	FIELD DELINEATION OF WETLANDS	\$1,700.00 Lump Sum
TASK 10A:	CONSTRUCTION INSPECTION	Hourly



ANCHOR ENGINEERING SERVICES, INC.
2014 CONSULTANT RATE SCHEDULE

PERSONNEL	HOURLY RATE
Mark M. Zessin, P.E., Senior Engineer	\$141.63
Joseph P. Gutierrez, Chief Bridge Engineer	\$137.50
Matthew N. Brown, P.E., Senior Project Engineer	\$121.00
D. Scott Atkin, LEP, Senior Environmental Engineer	\$115.78
Thomas P. Arcari, P.E., Senior Structural Engineer	\$105.19
James K. O'Brien, P.E., L.S., Senior Construction Engineer	\$105.19
Santo J. Giangrave, P.E., Senior Structural Engineer	\$103.81
Denise P. Lord, P.E., Senior Civil Engineer	\$103.13
William E. Wertz, L.S., Chief Surveyor	\$100.38
Marek L. Kement, P.E., L.S., Senior Engineer/Project Manager	\$99.00
Paul W. Martell, Jr., LEP, Environmental Project Manager	\$99.00
Michael E. Appleby, Structural Engineer	\$87.31
Michelle K. Govoni, P.E.	\$85.80
Kevin R. Grindle, A.S.L.A. Landscape Architect	\$79.75
Michael J. Parenti, Civil Engineer	\$78.38
Peter T. Bugbee, L.S. Surveyor	\$77.00
Kimberly J. Borst, Structural Engineer	\$74.94
Patrick J. McKay, Environmental Scientist	\$68.06
Cindy L. Hanlon, Bookkeeper	\$66.55
William G. Beale, Surveyor	\$60.50
Eric A. Andruk, Environmental Scientist	\$50.05
Nathan C. Aubrey, Surveyor	\$49.50
Diane Parsons, Marketing & Business Development Producer	\$46.75
Srefan W. Zessin, Intern	\$39.19
Carrie R. Miller, Administrative Assistant	\$36.44

Hourly rates subject to individual changes in personnel classification and annual adjustment

LAND-SURVEYING COSTS	HOURLY RATE
Two-Person Survey Crew	\$125.00
Three-Person Survey Crew	Per Quote

DIRECT COSTS	RATE
B & W Copies/Prints	\$ 0.07 per page
Color Copies/Prints	\$ 0.25 per page
Large Format B&W Copies/Prints	\$ 0.75 per page
Large Format Color Copies/Prints	\$ 3.00 per page
B & W Plots	\$ 3.00 per page
Color Plots	\$ 12.00 per page
Presentation Board	\$ 45.00 per board
Mileage	\$ 0.65 - \$ 0.70 per mile
Organic Vapor Meter, Air Sampling Pumps	\$ 60.00 per day / \$ 240.00 per week
Peristaltic Pump	\$ 60.00 per day / \$ 240.00 per week
GeoControl Bladder Pump Controller	\$ 75.00 per day / \$ 300.00 per week
Landtec Gem 500	\$ 125.00 per day / \$ 500.00 per week

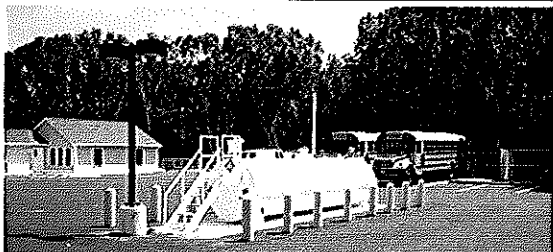
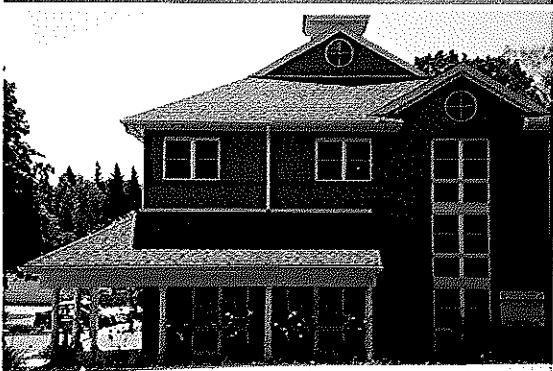
RELATED PROJECT EXPERIENCE





ANCHOR

ENGINEERING SERVICES, INC.



SITE DEVELOPMENT

Public Facilities
Public Improvements
Industrial Development
Recreational Design
Land Surveying
Stormwater Management Systems
Utility Design & Coordination
Landscape Architecture
Construction Services
Permitting & Representation



Anchor Engineering provides municipalities with years of diverse experience in the planning, design, permitting, and construction engineering of site projects. Our design team of licensed professionals has expertise in site grading, drainage, utilities, and structural design for foundations and retaining walls in a variety of educational & public facilities and industrial projects.



PUBLIC FACILITIES

Anchor Engineering has provided various services to municipalities and architects on numerous public facilities projects ranging from schools to fire safety complexes & public works garages throughout the State. Our services include land surveying, site design, ADA accessibility analysis, structural engineering, environmental services, landscape architecture and construction management for projects ranging from minor additions to full renovations.

Representative Projects



The Reynolds School, Mansfield

E.O. Smith High School at the Depot Campus

Site design for addition & parking, survey, drainage, septic & landscape design



Poquonock Elementary School, Windsor

Site improvements to front entrance of school

Drainage & driveway design, survey, environmental sampling & assessment

James A. Lee Public Works Complex, Windsor

Design of vehicle and equipment wash bay for existing public works garage

Utility & building survey, wash bay design, pump system design, construction



Mansfield Public Schools

Site improvement at Vinton, Goodwin, & Mansfield Middle School

Site layout & design, water service design & installation & utility coordination

Columbia Fire Station, Columbia

Construction of volunteer fire department facility

Site layout & design, septic design, drainage, permitting, bid assistance

Bozrah Town Hall Renovation, Bozrah

Complete renovation of municipal Town Hall, including site improvements

Site design, structural evaluation & design, permitting, construction admin



Andover Elementary School, Andover

Building addition and site recreational improvements

Land surveying, site design, contract administration, inspection assistance

Fields Memorial School, Bozrah

Septic System and Pump Station Design & Installation

Soil testing, leaching field design, permitting, construction administration

SITE DEVELOPMENT



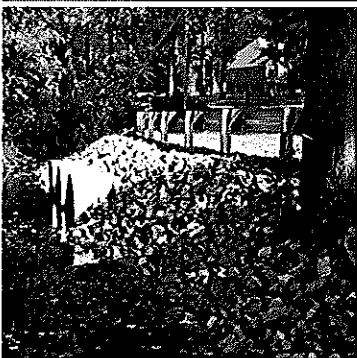


PUBLIC IMPROVEMENTS



Anchor Engineering has assisted municipalities on public improvement projects, ranging from parking lot and pedestrian access improvements to channel stabilization and emergency culverts replacement to address frequent flooding issues. Our services include land surveying, feasibility analysis, structural design, site design, environmental assessment & permitting, grant assistance, construction management & other services.

Representative Projects



Lebanon Town Hall Site Improvements, Lebanon

Parking lot expansion, pedestrian access & lighting enhancements

Survey, conceptual layout, public presentation, site design, construction admin.

Meadow Brook Channel Stabilization, Windsor

Channel stabilization to mitigate embankment failure & flow restrictions

Hydraulic analysis, stabilization design, State & federal permitting

Lake Shore Drive Culverts, Lebanon

Replacement of single culvert crossing at Lake Williams with triple culvert

Culvert & road design, staged construction plans, permitting, inspection



100 Washington Street, Hartford

Parking lot reconstruction for CT State Police barracks & Judicial buildings

Site design, subsurface tunnel structural evaluation & repair design, permitting

Bulls Bridge Structure Protection, Kent

Design & construction of clearance protection frame for historic covered bridge

Site inspection, structural steel & concrete design, construction administration

Alden Tavern Public Parking Lot, Lebanon

Design of archaeological significant site on National Register of Historic Places

Parking lot & site design, geomat design, STEAP grant assistance, permitting



Municipal Bus Parking Lot, Old Lyme

Construction of new municipal bus parking lot and dispatch building

Site design, building layout, permitting, bid assistance, construction inspection

Wilson Commuter Parking Lot, Windsor

Site improvements for existing commuter parking lot

Survey, geotechnical investigation, site design, construction documents

SITE DEVELOPMENT



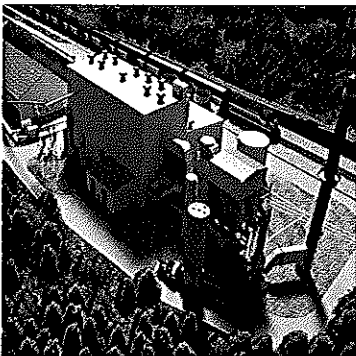


INDUSTRIAL DEVELOPMENT



Anchor Engineering has extensive experience in the manufacturing, construction and waste management industries, completing projects ranging in size from small manufacturing plants to large-scale transfer stations and volume reduction facilities. We provide our clients with a wide range of services, including site design, utility coordination, environmental engineering & permitting, necessary to complete any industrial development.

Representative Projects



Plainfield Renewable Energy Power Plant, Plainfield

37.5 MW Biomass Wood Gasification Power Plant

Feasibility, site design, utility design, environmental assessment, permitting

Haddam Landfill Closure & Transfer Station, Haddam

Municipal transfer station constructed on capped landfill

Siting study, survey, site & structural design, permitting, construction admin

Volume Reduction Facility, Bozrah

Facility permitted to process 250 tons/day of construction & demolition debris

Land surveying, site, utility & building design, permitting, construction assist.

SCRRRA Recycling Facility, Groton

Regional recycling facility building renovations & site improvements

Facility design, construction administration, liaison with owner & operator

NORCAP Landfill, East Windsor

3 MW Landfill Gas Renewable Energy Power Plant

Site feasibility, system design, permitting, O&M and construction services

Municipal Transfer Station, Waterford

Relocation of municipal transfer station to public works complex on Route 85

Local & state permitting, design, construction services, access improvements

Willimantic Waste Paper, Willimantic

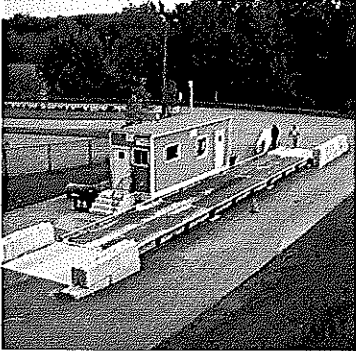
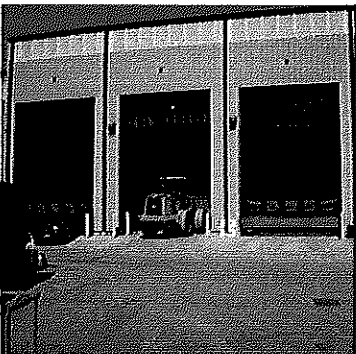
Recycling facility permitted to accept & process 840-tons/day

Over 15-years of planning, site design, permitting & consulting services

City Transfer Station, New Haven

Rehabilitation & expansion of transfer station

Site layout & utility design, permitting, construction services

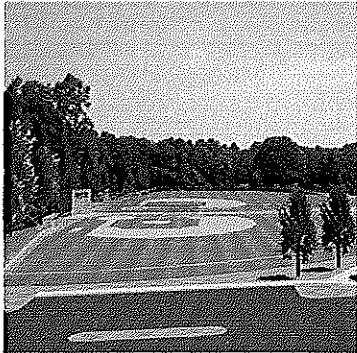


SITE DEVELOPMENT





RECREATIONAL DESIGN



Anchor Engineering provides innovative design solutions that incorporate function, aesthetics, orientation, budget & schedules for our municipal & private clients. Our team is experienced with athletic field & facility design, nature trails, playground design. We are knowledgeable with designs conforming to national sports association standards and can provide photorealistic renderings for permitting & public presentations.

Representative Projects



Tyler Field Athletic Complex, Lebanon

Little league fields & passive recreation trails on 26 acres

Site feasibility analysis, land surveying, site layout & design, permitting

Boundless Playground at Memorial Park, Windham

Community playground for children of all abilities

Site layout & design, landscape architecture & planting design

Hockanum River Pedestrian Trail, Manchester

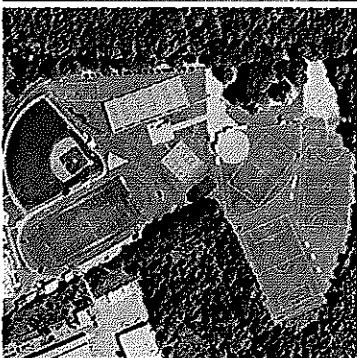
Recreation river trail & pedestrian bridge

Land surveying, site layout & design, permitting

Vintage at the Grove, Manchester

Nature preserve, walking trails, & outdoor recreational amenities

Site layout & design, utility design, permitting, construction services



Yantic River Pedestrian Trail, Bozrah

Nature trail & parking area within the floodplain of the Yantic river

Land surveying, site layout & design, local & DEP permitting

Aspinall Athletic Field Master Plan, Lebanon

Master planning, multi-purpose/soccer field, picnic pavilion improvements

Land surveying, rehabilitation planning, site design, stormwater management



Recreational Fields, Berlin

Installation of drainage improvements, design of tee ball field & soccer field

Land surveying, site layout & design, drainage design, permitting

Equestrian Crossings, Salem

Equestrian and pedestrian stream crossings within nature conservancy land

Survey, steel & timber modular bridge design, permitting

SITE DEVELOPMENT



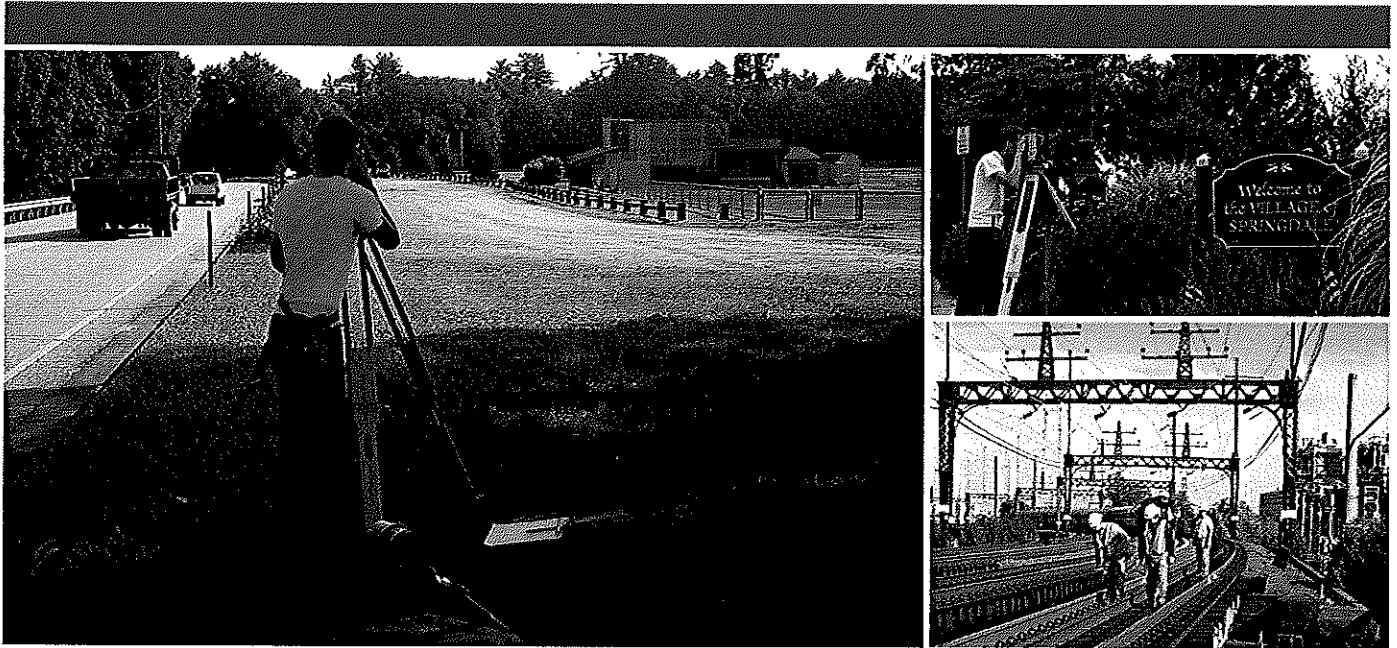


LAND SURVEYING

Anchor Engineering provides clients with land surveying services during all aspects of site development projects, from research and boundary survey through construction layout and preparation of record drawings. Using state of the art technology, our staff of trained surveyors has the knowledge and experience to assist our clients for the duration of a project. We provide timely, accurate and cost effective land surveying services for all projects.

Supporting Services

- Boundary / Property Survey
- ALTA / ASCM Land Title Surveys
- Topographic / Aerial Survey
- Inland Wetland and Watercourse Delineations and Mapping
- Easement and Utility Mapping
- FEMA Flood Certifications
- Dapping Surveys
- Property Stakeout and Boundary Resolutions
- Construction Stakeout
- As-Built / Location Improvement Surveys and Maps



SITE DEVELOPMENT



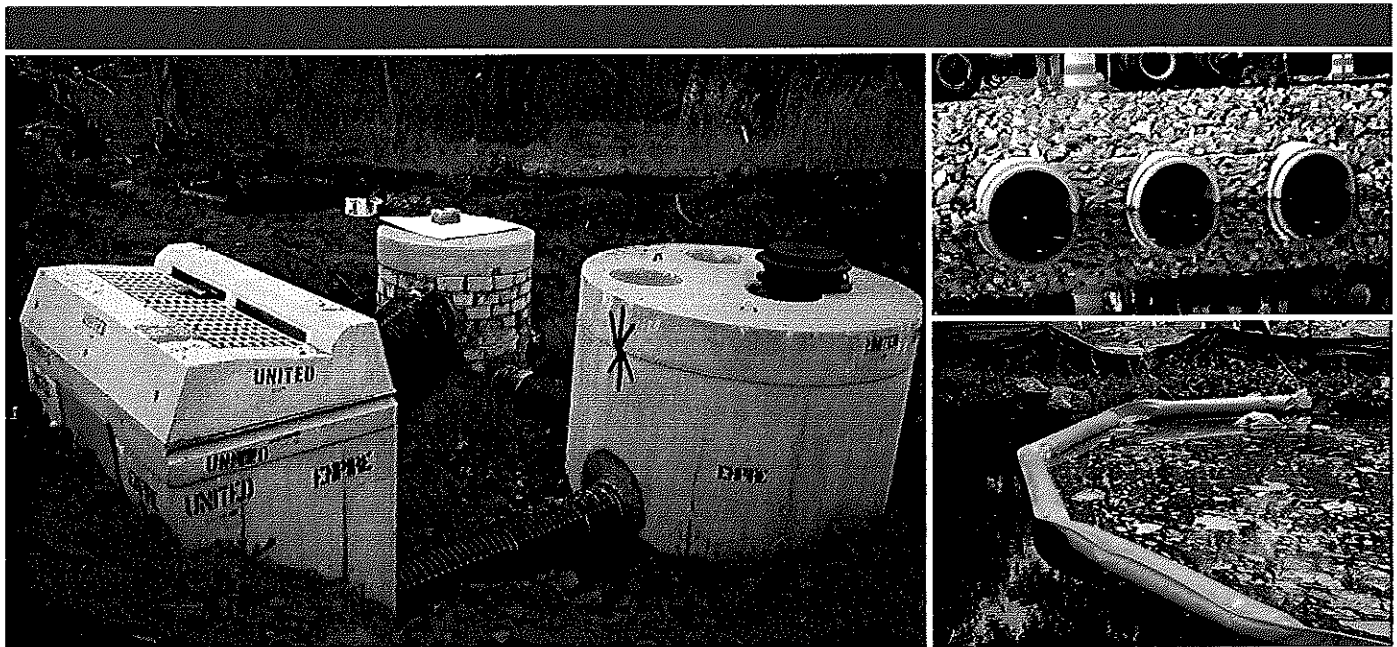


STORMWATER MANAGEMENT

Anchor Engineering provides innovative stormwater management systems that meet our client's budget while complying with an increasingly strict regulatory environment. Our staff has a comprehensive knowledge of current standards, such as the CTDEP Water Quality Manual and Guidelines for Soil Erosion and Sedimentation Control as well as State and local permitting requirements. We also have a good working relationship with DEP and local regulatory staff.

Supporting Services

- Drainage Analysis & Design
- Detention/Retention and Infiltration Analysis & Design
- Stormwater Treatment Systems Design
- Erosion & Sedimentation Control Plans & Reports
- Stormwater Operations & Management Plans
- Local, State and Federal Permitting Assistance
- Stormwater Pollution Control Plans (SPCP)
- Stormwater Pollution Prevention Plans (SWPP)
- Monitoring Programs & Training Assistance
- Comprehensive Site Compliance Evaluations



SITE DEVELOPMENT



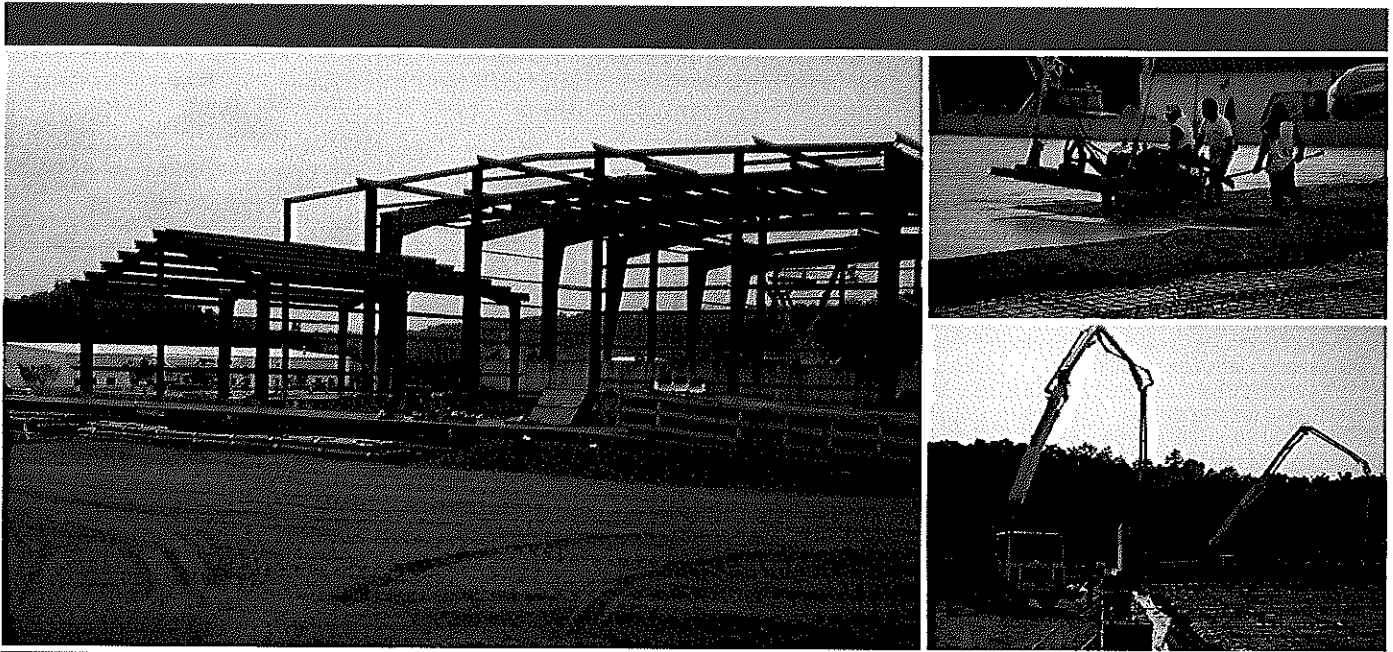


CONSTRUCTION SERVICES

Anchor uses an interactive approach to construction related projects to provide thorough, timely & cost effective services. Throughout the duration of a project, we provide a wide variety of services including cost estimation, contract & bid preparation, inspection & management. Our senior staff act as liaisons between private clients, regulatory agencies and contractors. Anchor's expertise of construction oversight, inspection, administration & management is an asset to all projects.

Supporting Services

- Administration
- Construction Management
- Bid Assistance
- Contract Documents
- Special Inspection
- Construction Inspection
- Land Surveying
- Office Review - Shop Drawings, Change Orders
- Utility Design & Coordination
- Materials Testing & Coordination
- Environmental Testing & Monitoring



SITE DEVELOPMENT



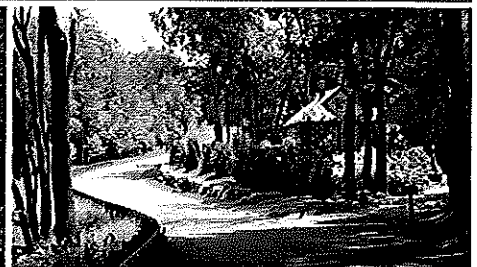


PERMITTING & REPRESENTATION

Anchor provides a client with a comprehensive knowledge of regulatory requirements for a wide variety of site development projects, allowing our staff to provide quality work with time sensitive permit preparation & professional representation at regulatory agency meetings. Throughout the duration of a project our staff works with Town & State Agencies to ensure all aspects of a project meet current codes, standards & regulations.

Supporting Services

- Regulatory Application & Permit Preparation
- Connecticut DEEP Permitting
- Connecticut DOT Permitting
- Photorealistic Renderings
- Presentation Materials
- Conservation Commission
- Inland Wetland & Watercourses Commission
- Planning & Zoning Commission
- Office of State Traffic Administration
- Connecticut Siting Council
- Expert Witness Testimony



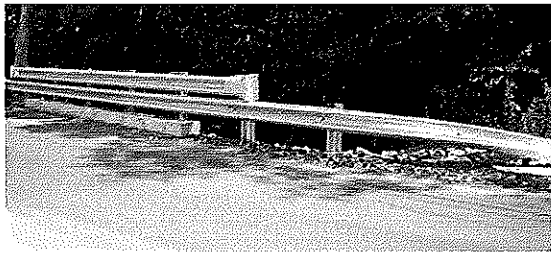
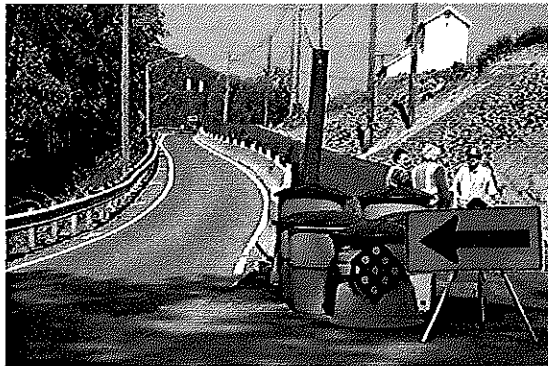
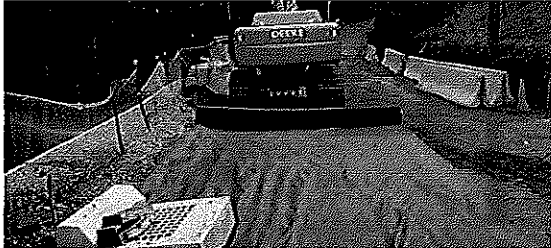
SITE DEVELOPMENT





ANCHOR

ENGINEERING SERVICES, INC.



ROADWAY DESIGN

New Road Design & Construction
Rehabilitation & Widening Projects
Horizontal & Vertical Alignment Improvement
Transportation Safety Enhancements
Traffic Calming Measures
Maintenance & Protection of Traffic
Land Surveying
Stormwater Management
Utility Design & Coordination
Permitting & Representation
Construction Services

Anchor Engineering has years of experience assisting the State, Municipal and Private Clients with roadway design and improvement projects. Our team of licensed professionals is capable of guiding clients from the early planning phases through design, permitting, public representation and construction. Anchor Engineering is prequalified by ConnDOT to perform Highway Design.

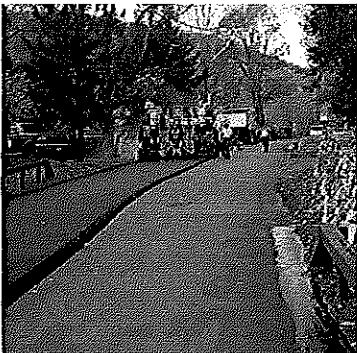


ROADWAY PROJECTS



Anchor Engineering serves a number of municipal and private clients with a wide range of roadway design services, including new roadway design, reconstruction, widening, pedestrian & traffic improvements and other safety enhancements. Anchor is capable of providing a complete suite of services, from planning & survey through design & construction.

Representative Projects



Prospect Street Realignment, New Haven

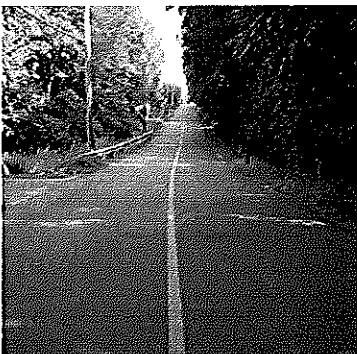
*\$2.3M Roadway & bridge reconstruction over Historic Farmington Canal
Roadway design, traffic M&P, construction survey, full-time inspection*

Heron Pond Road, Essex

*Construction of 1,000 feet of new road for a conservation subdivision
Survey, layout, roadway, drainage & utility design, permitting, stakeout*

Leonard Bridge Road, Lebanon

*Reconstruction and widening of 8,000 feet of rural road
Survey, roadway design, traffic M&P, bidding & construction services*



Elm Street, Windsor

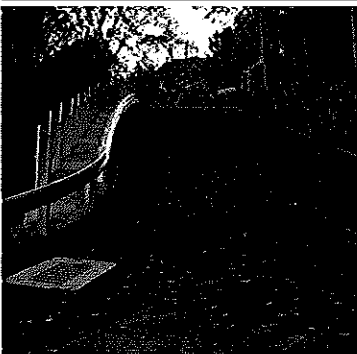
*Reconstruction of 1,200 feet of urban local road
Survey, road, drainage & utility design, pedestrian improvements, bidding*

Baltic Heights Road, Sprague

*Reconstruction of 600 linear feet of road for HUD Small Cities Program
Survey, roadway design, drainage design, & retaining wall design*

Route 85, Waterford

*Widening of Route 85 at the Waterford Transfer Station
Survey, road design, traffic analysis, State & Local permitting, construction*



Isabella's Court, Stafford

*Construction of 3,000 linear feet of new road for Active Adult Community
Survey, layout, road, drainage & utility design, construction services*

Wood Fern Way & Shadblow Way, Andover

*Construction of 4,500 linear feet of new road for residential development
Survey, road & utility design, permitting, construction survey, inspection*

ROADWAY DESIGN



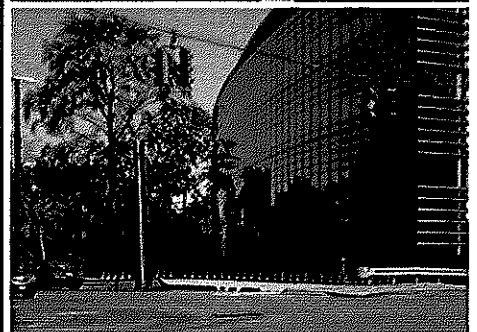


TRANSPORTATION SAFETY

Anchor Engineering is experienced with the development and integration of transportation safety enhancements into a variety of roadway projects ranging from private development to rural local roads and major arterial roadways. Our team of designers is knowledgeable with current State and Local regulatory standards and ADA Standards for Accessible Design.

Supporting Services

- Traffic Impact Analysis
- Accident Report Evaluation
- Sidewalk Replacement
- Crosswalk Design & Installation
- Traffic Calming Devices
- Handicap Accessibility Improvements
- Pedestrian Bridge Design
- Retaining Wall Design
- Guiderail Improvements
- Pedestrian Protection Enhancement
- Traffic Signal Plans



ROADWAY DESIGN





REPRESENTATIVE PROJECT

Air Line State Park Trail

Extension of Recreational Trail, Town of East Hampton, Connecticut

Description & Background

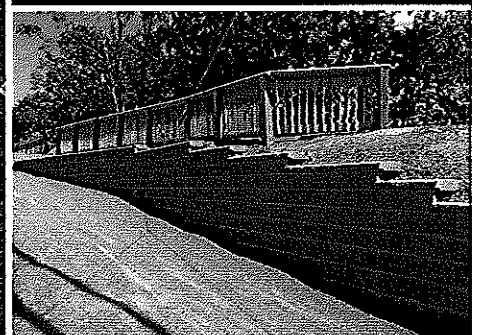
Anchor Engineering completed the design for the extension of the Air Line Trail State Park in 2011. The design incorporated the connection of an existing trail system with the historic East Hampton Downtown District. This project was funded through a Small Town Economic Assistance (STEAP) grant. Construction was completed in 2012.

Detailed Services

Anchor Engineering provided all services for this project, from the early planning stages through construction completion. Services related to the Air Line trail extension include layout & design, landscape planting plans, grading, drainage, erosion and sedimentation controls, permitting, specifications, construction administration and inspection.

PROJECT HIGHLIGHTS

- 1,150' Handicap Accessible Trail
- Upgrade Rail Bridge
- Observation Areas
- Connection with Municipal Parking Lot



RECREATIONAL FACILITIES





REPRESENTATIVE PROJECT

Yantic River Pedestrian Trail

Yantic River, Town of Bozrah, Connecticut

Description & Background

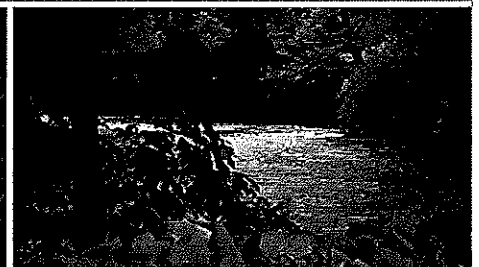
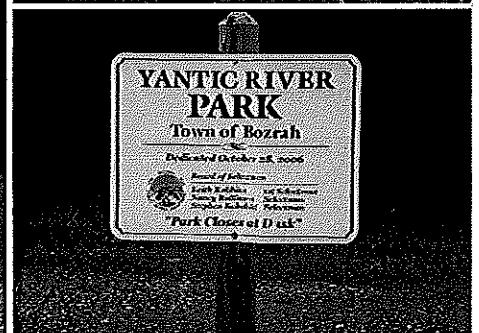
Anchor Engineering assisted the Town of Bozrah with the design and construction of a gravel access driveway and parking lot along a portion of the Yantic River. The access driveway and parking lot were installed to provide local residents access to the river for passive recreation activities, such as walking, hiking, biking and fishing. The access drive also provides improved access to the river to assist CTDEP and Trout Unlimited with trout stocking efforts.

Detailed Services

Anchor Engineering provided the Town of Bozrah with all services required for analysis, design and construction of the trail. These services included delineating State and Federal wetlands on the property, surveying, site layout & design, grading, hydraulic capacity analysis of the Yantic River and permitting. Due to the location of the site within a designated FEMA floodplain area and Stream Channel Encroachments Lines, Anchor also assisted with obtaining State permits.

PROJECT HIGHLIGHTS

- **Actively stocked Trout Management Area**
- **Nature Trail & Parking within floodplain of the Yantic River**



RECREATIONAL FACILITIES





REPRESENTATIVE PROJECT

Recreational & Equestrian Crossings

Over Unnamed Tributary of the Eight Mile River, Salem, Connecticut

Description & Background

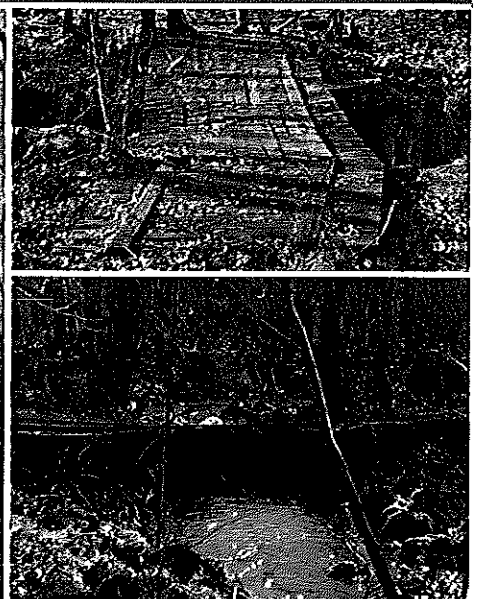
Anchor Engineering Services, Inc. was hired to provide land surveying, engineering and permitting services related to the construction of two stream crossings used for recreation, horseback riding and agricultural purposes. The proposed crossings were designed to replace severely deteriorated bridge crossings and a collapsed crossing. Both crossings were located within a Riparian Corridor Overlay Zone and were designed to minimize impact on wetlands & watercourses.

Detailed Services

Anchor provided inland wetland & watercourses delineation, conceptual layouts, analyzed crossing locations, crossing design, and permit preparation and representation for required Inland Wetland & Watercourse and Planning & Zoning permitting. In addition to structure design, the crossings were design utilizing construction materials to simplify and expedite construction process within a remote wooded location and minimize impact on existing wetlands and watercourses.

PROJECT HIGHLIGHTS

- 2 Stream crossings in a remote wooded location
- Crossings located within Riparian Corridor Overlay Zone
- IWWC & Planning and Zoning permit preparation & representation



RECREATIONAL FACILITIES





REPRESENTATIVE PROJECT

Vintage at the Grove

Luxury Apartment Development, Town of Manchester, Connecticut

Description & Background

Anchor Engineering completed the design of a 322-unit apartment complex in 2006. Numerous passive and active recreational amenities were incorporated into the design to accommodate the residents. These amenities included a community pool and playscape, tennis court, open space preservation areas and over a mile of natural surface and paved walking trails.

Detailed Services

Anchor Engineering provided all services for this project, from the early planning stages through construction completion. Services related to the recreational amenities include layout & design, landscape planting plans, grading, drainage, erosion and sedimentation controls, permitting, specifications, construction administration and inspection.

PROJECT HIGHLIGHTS

- Tennis Court
- Nature Preserve
- Walking Trails
- Outdoor Recreational Amenities



RECREATIONAL FACILITIES





REPRESENTATIVE PROJECT

Tyler Field Athletic Complex

Town of Lebanon, Connecticut

Description & Background

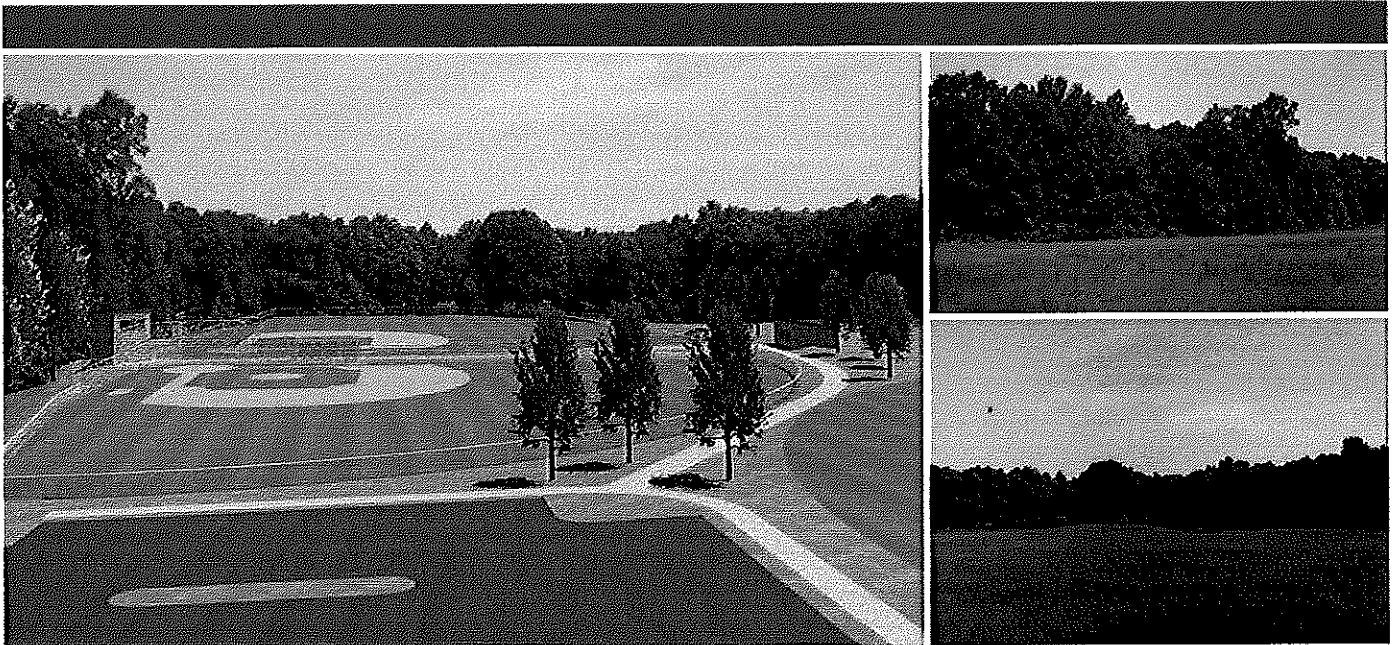
Anchor Engineering assisted the Town of Lebanon, the Tyler Field Building Committee, and Lebanon Connecticut Little League with the Tyler Field Athletic Complex. The athletic complex will be constructed on a 26-acre open space property dedicated to the Town as part of a previous subdivision. The design consists of three regulation Little League fields, passive recreation trails, areas designated for the future construction of a playground, gravel parking, concessions and press box.

Detailed Services

Our services have included a site feasibility study, land survey, planning & design, permitting, numerous public presentations, construction document preparation and assistance with funding. Approval was obtained in 2007 & phased construction is anticipated to begin upon the availability of funding. Currently the Town is seeking funds through the Small Town Economic Assistance Program, Major League Baseball & from private donations.

PROJECT HIGHLIGHTS

- 26-Acre open space property
- 3 Regulation Little League fields
- Passive Recreational Trails
- Funding from Small Town Economic Assistance program & Major League Baseball



RECREATIONAL FACILITIES





REPRESENTATIVE PROJECT

Alden Tavern Parking Lot

Municipal Parking Lot, Lebanon, Connecticut

Description & Background

Anchor Engineering assisted the Town of Lebanon and Alden Tavern Parking Lot Building Committee with the design and construction of a municipal parking lot on an archaeologically significant site on the National Register of Historic Places. The site design incorporated the placement of a geotextile reinforcing mat to allow all work to be performed over an undisturbed site to minimize impact to significant subsurface features. Project funded through STEAP grant and in-kind donations.

Detailed Services

Our services included preparing topographic and boundary mapping, site layout and design, landscape architecture, local and State permitting, bid document preparation, construction administration and inspection. Other services included coordination with SHPO and design of geomat to minimize disturbance of subsurface artifacts. Construction was completed in the summer of 2010 under budget and on schedule.

PROJECT HIGHLIGHTS

- STEAP Grant Funding
- 113 Parking Spaces
- ADA Design
- Planting and Park Plan
- Coordination with Historical Society



MUNICIPAL PARKING LOT





REPRESENTATIVE PROJECT

Hockanum River Pedestrian Trail

Hockanum River, Town of Manchester, Connecticut

Description & Background

Anchor Engineering was hired by the Town of Manchester to design a replacement pedestrian bridge along the Oakland and Union Pond Trails. The Hockanum River trails wind along the river through scenic woodlands, wetlands and historically significant areas. The original structure, erected in 1951 by ConnDOT, was a steel Queen Post Truss design with a wooden deck spanning 80 feet. Due to severe deterioration of the superstructure a complete replacement was recommended.

Detailed Services

As part of the design process, a structural analysis and rehabilitation feasibility analysis was completed. The feasibility considered structural integrity, environmental impact, construction activities & permitting and cost analysis. The final design was a complete replacement utilizing existing abutments. Services provided during the reconstruction included land surveying, erosion & sedimentation control, steel truss design, bid assistance and construction administration.

PROJECT HIGHLIGHTS

- Recreational Trail adjacent to River
- 80' Single Span Steel Truss & Wooden Deck Pedestrian Bridge across Hockanum River



RECREATIONAL FACILITIES





REPRESENTATIVE PROJECT

House Street Pedestrian Bridge

Glastonbury, Connecticut

Description & Background

Anchor Engineering Services, Inc. was obtained by the Town of Glastonbury to design bridge abutments for the proposed prefabricated welded steel pedestrian bridge located on House Street at the intersection with Nye Road. The pedestrian bridge was part of 2,600 LF pedestrian improvement consisting of sidewalks from Hebron Avenue to Spring Street Extension.

Detailed Services

In addition to structural analysis and design of the foundations, Anchor coordinated geotechnical engineering and borings, completed construction plans, prepared construction cost estimates, prepared technical specifications for construction of the proposed abutments. Anchor also completed shop drawing reviews for the selected pedestrian bridge.

PROJECT HIGHLIGHTS

- Bridge Abutment Design
- Cost Estimates
- Bridge Shop Drawing Review
- Utility Coordination for Existing Gas Line
- Construction Administration



PEDESTRIAN BRIDGE





REPRESENTATIVE PROJECT

Earle Park Pedestrian Bridge

Over Holland Brook, Glastonbury, Connecticut

Description & Background

Anchor was selected by the Town of Glastonbury to design bridge abutments in support of a prefabricated pedestrian bridge. The existing 38 foot x 11 foot timber pedestrian bridge, supported on native embankment and dry stacked stone, experienced considerable settlement as a result of erosion of the stream bank. As a result, a prefabricated structure with concrete foundations was proposed for replacement.

Detailed Services

In addition to structural analysis and design of the foundations, Anchor coordinated geotechnical engineering and borings, completed construction plans, prepared construction cost estimates, completed flood certifications and prepared technical specifications for construction of the proposed abutments.

PROJECT HIGHLIGHTS

- Bridge Foundation and Abutment Design
- Prefabricated Pedestrian Bridge
- 49.7 Acre Town Park
- Construction Documents



PEDESTRIAN BRIDGE



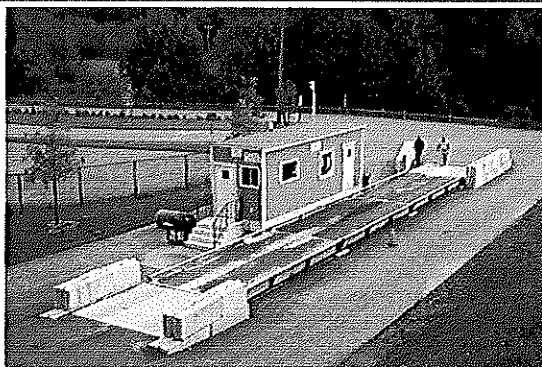
PROFESSIONAL SERVICES





ANCHOR

ENGINEERING SERVICES, INC.



GENERAL SERVICES

Bridge Engineering
Construction & Inspection Services
Environmental Services
Land Surveying
On-Call Consultant Services
Road Rehabilitation & Design
Site Development
Solid Waste Management
Utility Design
Water Resource Services

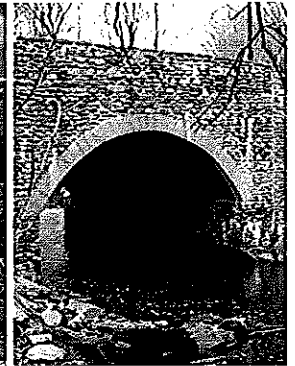
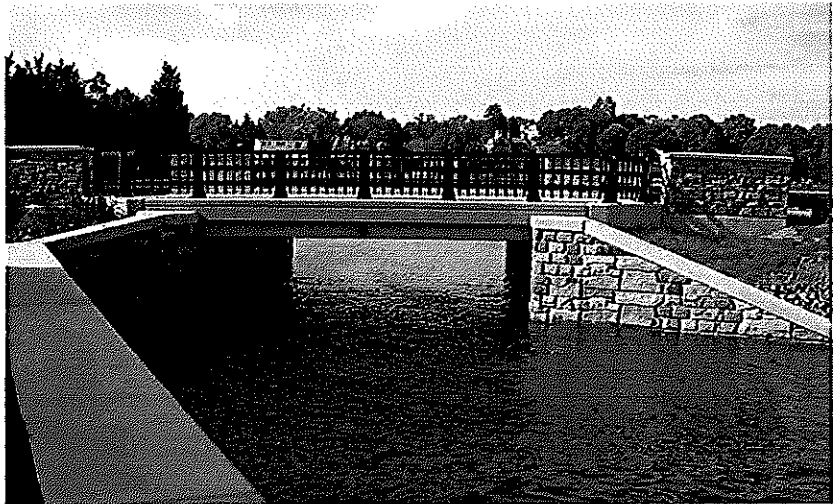


Anchor Engineering Services, Inc. has worked with over 70 municipalities and hundreds of private clients on various projects. We provide a wide range of services from the initial planning phase through design, permitting and construction. Our staff prides itself on providing innovative solutions that meet the client's budgeting and scheduling needs.



ANCHOR

ENGINEERING SERVICES, INC.



BRIDGE ENGINEERING

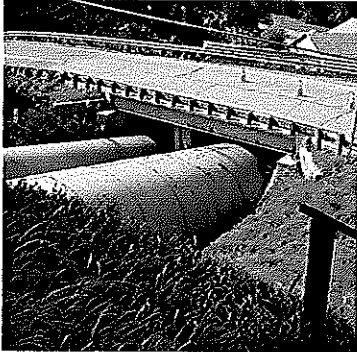
ConnDOT Bridge Design
Federal Local Bridge Program
State Local Bridge Program
Municipal Bridge Design
Bridge Inspection & Appraisal
Land Surveying
Roadway Design
Hydrologic & Hydraulic Analysis & Design
Utility Design & Coordination
Permitting
Construction Services

Anchor Engineering has designed, built and inspected over 50 bridges for State, Municipal and Private clients throughout Connecticut, including vehicular, rail and pedestrian structures. We are at the forefront of the ConnDOT/FHWA Local Bridge Program and are pre-qualified by the ConnDOT to perform Bridge and Structural Design & Bridge and Structure Inspection.



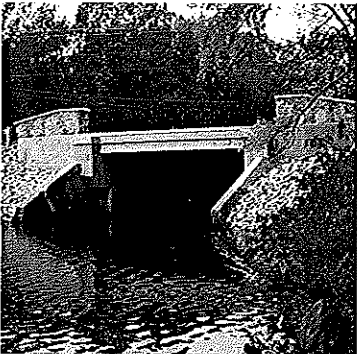


BRIDGE ENGINEERING



Anchor Engineering has provided municipalities with bridge design services utilizing Town funds as well as funds under the State and Federal Local Bridge Program. Our team of engineers and licensed professionals provide surveying, bridge, structural & roadway design, hydraulic analysis, bid assistance, construction administration & inspection services..

Representative Projects



Route 7, New Milford

*Replacement of 35' single span bridge over the CL&P Penstocks
Bridge, structural & highway design, traffic staging plans*

Metro North Railroad - Waterbury Branch, Beacon Falls

*Replacement of 15' single span railway & roadway bridge over Spruce Brook
Bridge, structural & rail design, accelerated construction staging plans*

Hillhouse Avenue Bridge, Yale Campus, New Haven

*\$4-Million replacement of 27' single span over historic Farmington Canal
Vehicular bridge design, pedestrian bridge installation, construction inspection*



Addison Road Bridge, Glastonbury

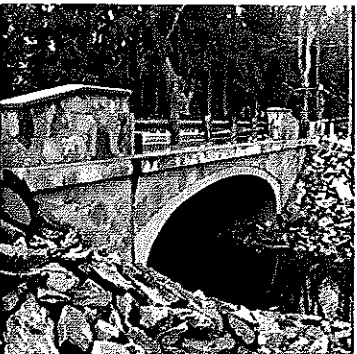
*Replacement of bridge over Salmon Brook adjacent to historic mill & dam
Hydraulic analysis, bridge & structural design, Flood Management permitting*

Village Hill Road Bridge, Columbia

*Restoration of historically significant 20' span bridge over Ten Mile River
Engineering services, construction inspection*

Woodruff Street Bridge, Litchfield

*Superstructure replacement and roadway widening over Tannery Brook
Surveying, hydraulic analysis, bridge and roadway design*



Prospect Street Bridge, Yale Campus, New Haven

*Est. \$2.3M bridge rehabilitation over historic Farmington Canal
Bridge & structural design, intersection realignment, construction inspection*

Earle Street Pedestrian Bridge, Glastonbury

*Abutment design for prefabricated pedestrian bridge in Nature Trail
Abutment design, structural analysis*

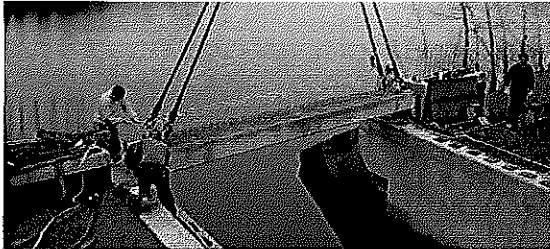
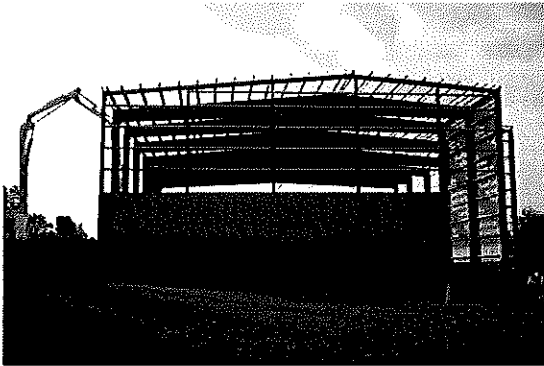
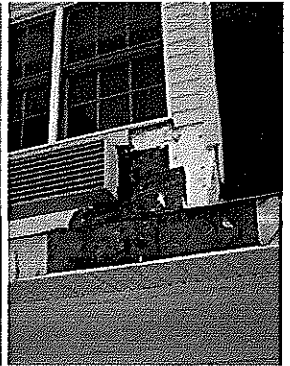
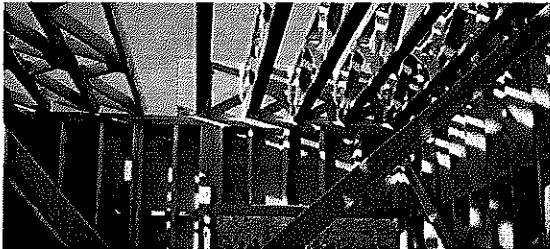
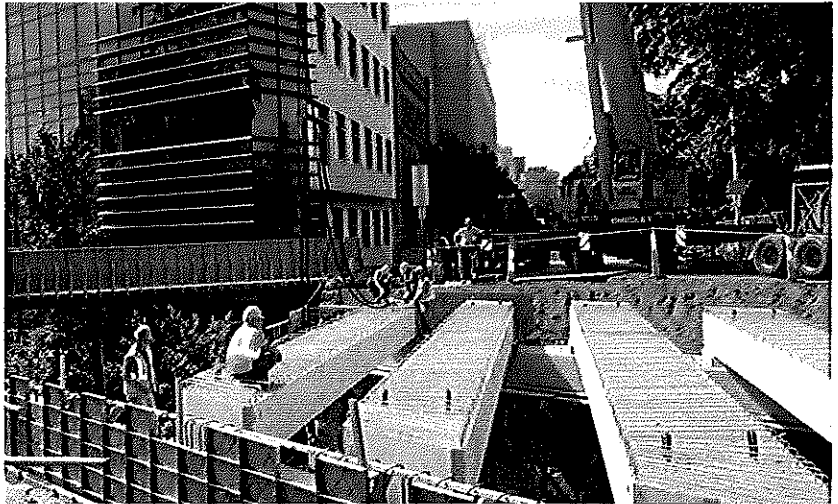
GENERAL SERVICES





ANCHOR

ENGINEERING SERVICES, INC.



CONSTRUCTION SERVICES

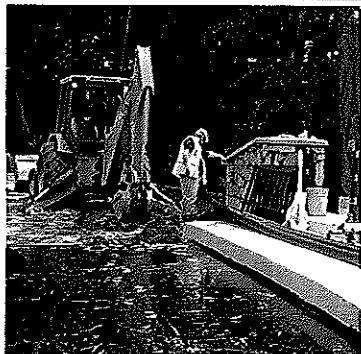
Administration
Construction Inspection
Special Inspection
Contract Documents
Bid Assistance
Land Surveying
Utility Design & Coordination
Materials Testing & Coordination
Environmental Testing & Monitoring



Anchor Engineering Services, Inc provides contract and construction related services to guide a project from the design and permitting stages through completion. Our senior staff of engineers and inspectors are liaisons between clients and Federal, State, & Local agencies and contractors. Our expertise in construction administration, oversight and inspection an asset to all projects.

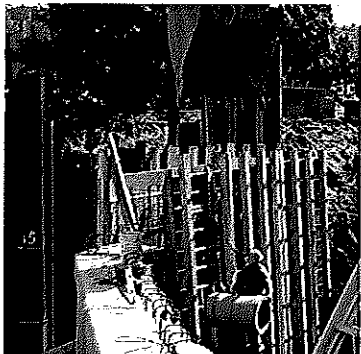


CONSTRUCTION & INSPECTION



Anchor Engineering Services, Inc provides municipalities, regional agencies & private clients with construction services throughout the duration of a project including cost estimation, contract & bid preparation, representation, inspection & management. Our trained & certified staff inspects roadway & bridge reconstruction, utility installation, large scale buildings and solid waste facilities.

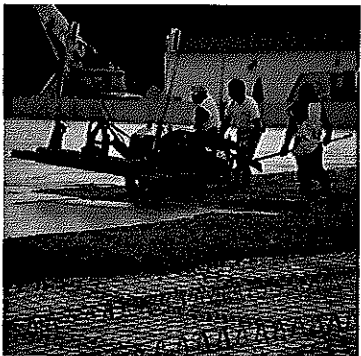
Representative Projects



Hillhouse Avenue over Historic Farmington Canal, New Haven
Design & construction of roadway and pedestrian bridges on Yale Campus
Construction administration & full-time inspection

Lake Shore Drive Culvert Replacement, Lebanon
Replacement of undersized pipe culvert in Lake District
Preparation of bid documents, bid review, contractor selection

Municipal Landfill Closure, Old Lyme
Design and closure of municipal solid waste landfill
Preparation of contract documents, bid assistance, construction oversight

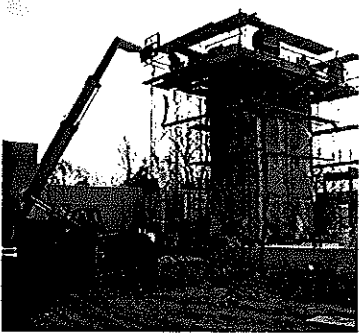


Fishers Island School Addition, Fishers Island, NY
Construction of chemistry laboratory & classroom addition
Bid assistance, contractor selection, construction management

City Transfer Station Improvements, New Haven
Design, permitting & construction of transfer station improvements
Preparation of contract documents & permits, bid assistance and inspection

Day Street over Little River, Seymour
Full-time construction inspection of federally funded bridge replacement project
Preparation of contract documents, bid assistance & full-time inspection

15 Municipal Bridge Replacements, Newtown
Design and construction of Town funded bridge replacement projects
Preparation of contract documents, bid assistance, construction inspection



Lyme Street Pavement Rehabilitation, Old Lyme
Reconstruction of Lyme Street with State and Federal funding
Construction administration, full-time inspection & project close-out

GENERAL SERVICES

