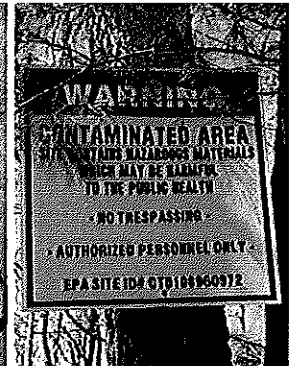




ANCHOR

ENGINEERING SERVICES, INC.



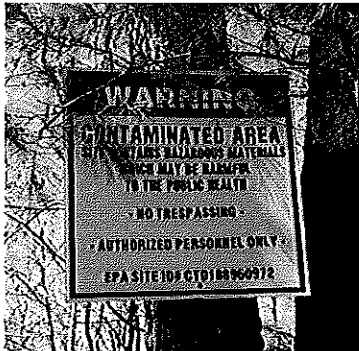
ENVIRONMENTAL SERVICES

Environmental Site Assessments
Environmental Remediation
Environmental Monitoring
Environmental Compliance
Additional Services
Permitting

Anchor Engineering Services, Inc. offers a wide range of environmental consulting services to public & private clients in compliance with regulatory & industry standards. Our knowledgeable staff of Licensed Environmental Professionals & environmental scientists are experienced with the investigation, testing & clean-up of contaminated sites, DEP, EPA & ACOE permitting, regulatory compliance and the development & implementation of Best Management Practices and Pollution Prevention strategies.



ENVIRONMENTAL SERVICES



Anchor Engineering provides environmental services to dozens of public and private clients. These services include site assessments, environmental studies, remediation, permitting and design. Our staff of Licensed Environmental Professionals & scientists is capable of assisting any Town with their environmental needs.

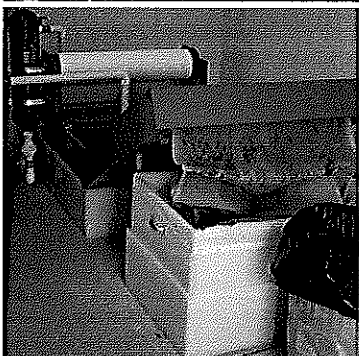
Representative Projects



Day Street Bridge Replacement, Seymour
Site Assessment & Remediation
DOT Task 210 Assessment, Task 310 Remediation Design & Oversight

Department of Public Works Parks Garage, Windsor
Environmental Remediation and Compliance
Underground tank removal, stormwater permitting & RCRA facility audit

Department of Public Works, Waterford
Environmental Assessment, Remediation Design and Oversight
Site assessment & voluntary remediation of former CERCLIS property on site



Department of Public Works, New Haven
Refuse Vehicle Wash and Transfer Station Tip Floor
Wash water and leachate treatment study, design & permitting

Great Neck Elementary School, Waterford
Environmental Assessment and Construction Services
Site assessment of adjacent parcel & construction assistance for contamination

Town of Warren Board of Health, Warren, MA
Environmental Monitoring and Compliance
Gas, ground & surface water monitoring, compliance & operations assistance

Town of Manchester Landfill, Manchester
Permitting and Environmental Monitoring
Discharge & expansion permits, monitoring, and compliance inspections

South End Disposal Area, Waterbury
Environmental Compliance and Operational Assistance
Groundwater & landfill gas monitoring, operational inspections & surveying

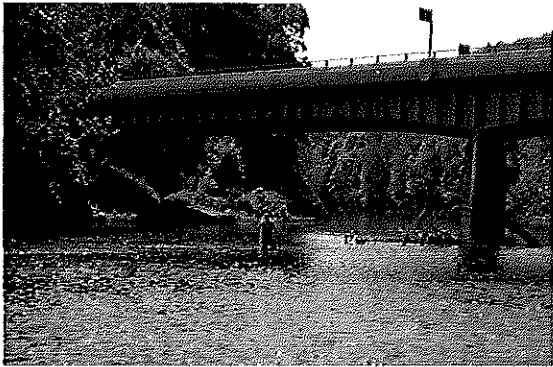
GENERAL SERVICES





ANCHOR

ENGINEERING SERVICES, INC.



LAND SURVEYING

Boundary, Property & Right-of-Way Surveys
Property Descriptions, Plats & R.O.W. Maps
Topographic Field Surveys
Coordination of Photogrammetric Aerial Surveys
Easement and Utility Mapping
Inland Wetland and Watercourse Delineations and Mapping
FEMA Flood Certifications
Property Stakeout and Boundary Resolutions
Dapping Surveys
Construction Stakeout & Verification Surveys
As-Built / Location Improvement Surveys and Maps



Anchor provides clients with land surveying services during all aspects of municipal 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 & experience to assist our clients for the duration of a project.



LAND SURVEYING



Anchor Engineering provides a client with land-surveying support services for a wide variety of improvement projects.. Our staff of licensed surveyors are experienced with boundary & property research, topographic & aerial surveys, roadway & bridge survey & stakeout, drainage improvement projects and many other survey projects.

Representative Projects



Hillhouse Avenue Bridge, Yale Campus, New Haven

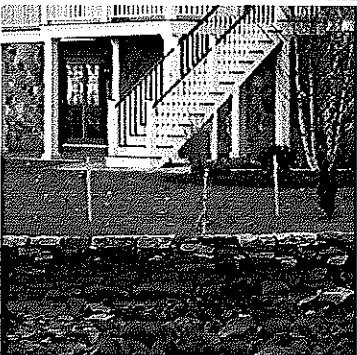
*\$4M Replacement of 27' single-span bridge over historic Farmington Canal
Topographic, boundary & right-of-way surveys, utility location, as-built surveys*

Alden Tavern Parking Lot, Lebanon

*Site survey for public parking lot on archaeologically significant historical site
Boundary, topographic and wetlands surveys and construction stake-out*

Willington Water Main Ext., Willington

*Site survey for water main extension along Old Farms Road
Topographic and utility survey*



Stanton Hill Road Ext., Bozrah

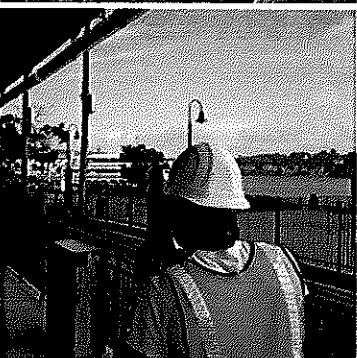
*Survey in support of replacement of existing bridge
Right-of-way and topographic survey*

River Trail, Town of Windsor

*Site survey for design of a walking trail along the Connecticut River
Boundary, topographic and wetlands surveys*

Town Garage Parking Lot, Bethlehem

*Site survey for parking improvements
Topographic and utility surveys*



Metro North Railroad, Bridgeport & Fairfield

*Railroad bridge rehabilitation over Ash Creek
Topographic, right-of-way & wetland surveys, easement mapping, utility location*

Ash Landfill Survey, Mattabassett District, Berlin

*Site survey for capacity analysis and lifespan determination
Boundary, topographic and wetlands surveys*

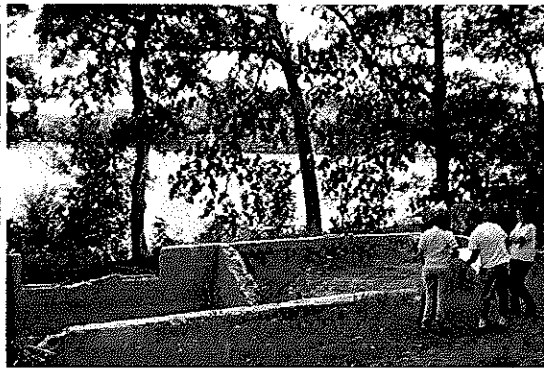
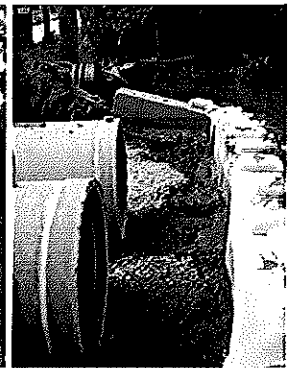
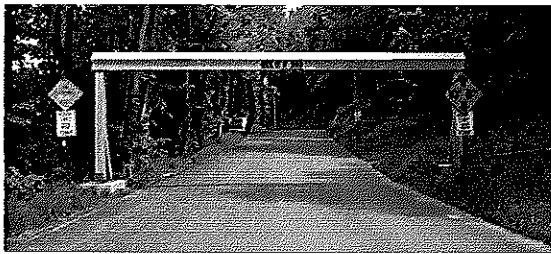
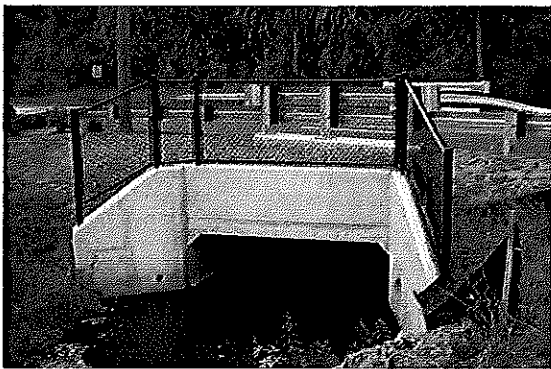
GENERAL SERVICES





ANCHOR

ENGINEERING SERVICES, INC.



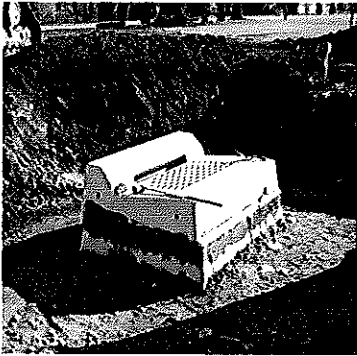
ON-CALL CONSULTANT SERVICES

Property & R.O.W. Surveys
Master Planning
Planning & Zoning Commission Reviews
Inland Wetland & Watercourse Commission Reviews
Federal, State, & Local Permitting
Stormwater Management Improvements
Utility Coordination
Construction Administration
Construction Inspection
Environmental Monitoring
Environmental Site Assessments

Anchor provides municipal clients with a wide range of consultant services to assist their on-going development, improvement & maintenance projects. Our team of professionals is capable of providing services for projects of any scope and size, from plan reviews for regulatory commissions & minor drainage improvements to full-scale emergency bridge replacements. We respond to elected officials, staff & commission needs quickly with solutions that meet their limited budgets & schedules.



ON-CALL CONSULTANT SERVICES



Our firm provides on-call engineering, land surveying, environmental & construction services to various Connecticut municipalities. Our municipal projects include roadway & bridge reconstruction, drainage & culvert improvements, review & support services for regulatory commissions, solid waste management, monitoring, utility extensions, public facility improvements & easements.

Representative Projects



On-Call Consultant, Lebanon

Serving Board of Selectman & Public Works Department since 2007

Surveying, civil & environmental engineering, construction admin, inspection

Regulatory Commission Review, Lebanon

Serving Planning & Zoning and Inland Wetlands Commissions since 2007

Plan & application review, site investigations, regulation assistance

Engineering Department Assistance/Plan Review, Windsor

Consultant civil and environmental services for Town Engineering Dept.

Stormwater management design, culvert design, plan reviews, inspections



On-Call Consultant, Kent

Serving Board of Selectman, DPW & Regulatory Commissions since 2007

Road & drainage improvements, plan reviews, inspections

On-Call Consultant, New Britain

Serving Town Engineering Department since 2009

Structural analysis and design, bid assistance, inspections

On-Call Consultant, Waterford

Environmental consultant for Town and/or Town-regulated projects

Assessment & monitoring for DPW, Planning/Zoning & Board of Education



On-Call Consultant, Bozrah

Serving Board of Selectman since 2001

Surveying, bridge & culvert design, structural analysis, septic analysis & design

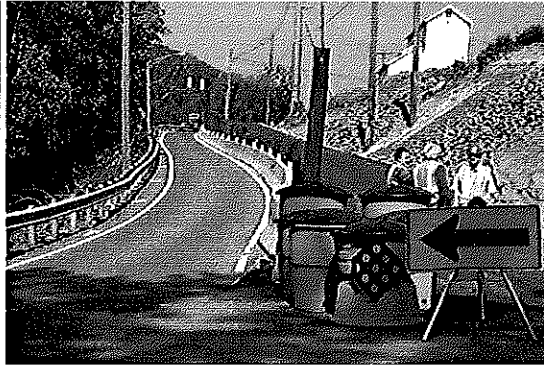
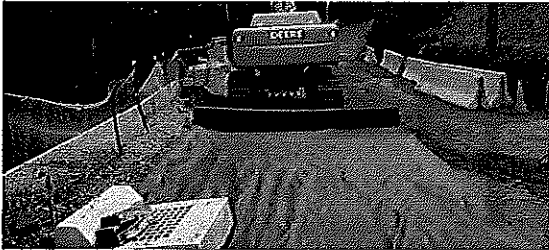
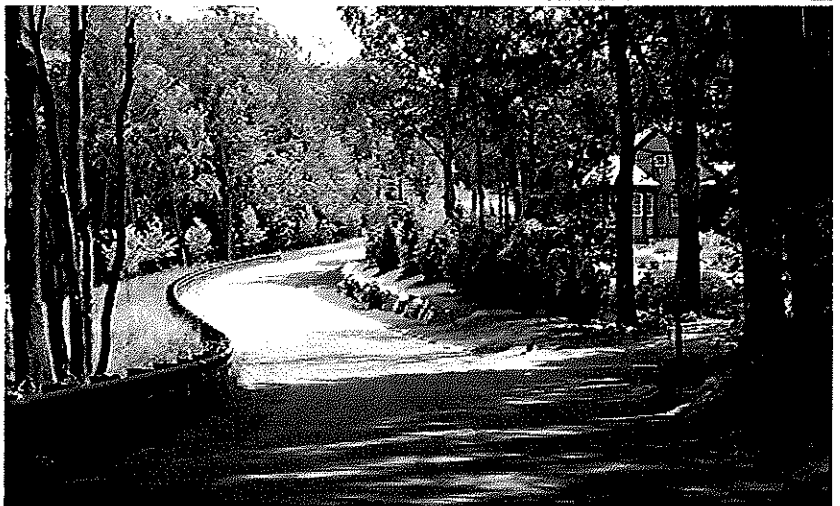
GENERAL SERVICES





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ENGINEERING SERVICES, INC.



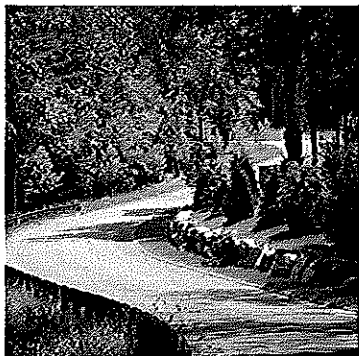
ROADWAY DESIGN

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.

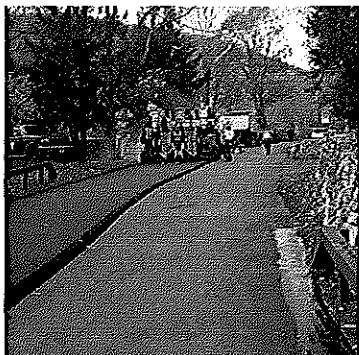


ROADWAY DESIGN



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

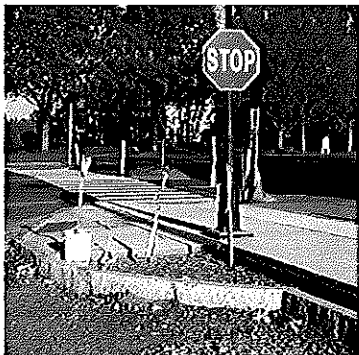
*\$2.3M Roadway & bridge reconstruction over Historic Farmington Canal
Roadway design, traffic M&P, construction survey, full-time inspection*

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*



Lyme Street, Old Lyme

*Reconstruction of Lyme Street pavement, curbing and sidewalks
Bid assistance, construction administration, inspection and project closeout*

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*

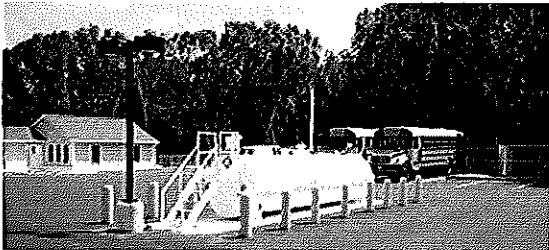
GENERAL SERVICES





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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.



SITE DEVELOPMENT

Anchor has provided various services to municipalities and architects on numerous educational & public facilities, recreational facilities & publically operated industrial facilities throughout the State. Our services include surveying, environmental assessment, site design, grading, drainage improvements, landscape architecture and construction management.

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



Tyler Field Athletic Complex, Lebanon

Little league fields & passive recreation trails to be constructed on 26 acres

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

100 Washington Street, Hartford

Parking lot reconstruction for CT State Police barracks & Judicial buildings

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



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

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

Alden Tavern Parking Lot, Lebanon

Design of archaeological significant site on National Register of Historic Places

Site design, geomat design, landscape architecture, STEAP grant assistance



Boundless Playground at Memorial Park, Windham

Community playground for children of all abilities

Site layout & design, landscape architecture & planting design

Fields Memorial School, Bozrah

Septic System and Pump Station Design & Installation

Soil testing, leaching field design, permitting, construction administration

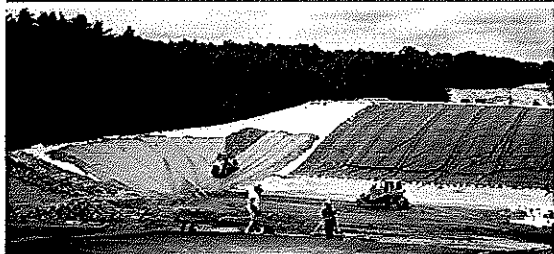
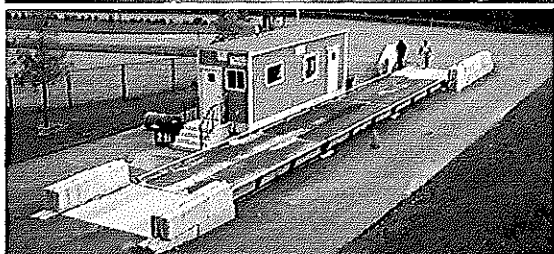
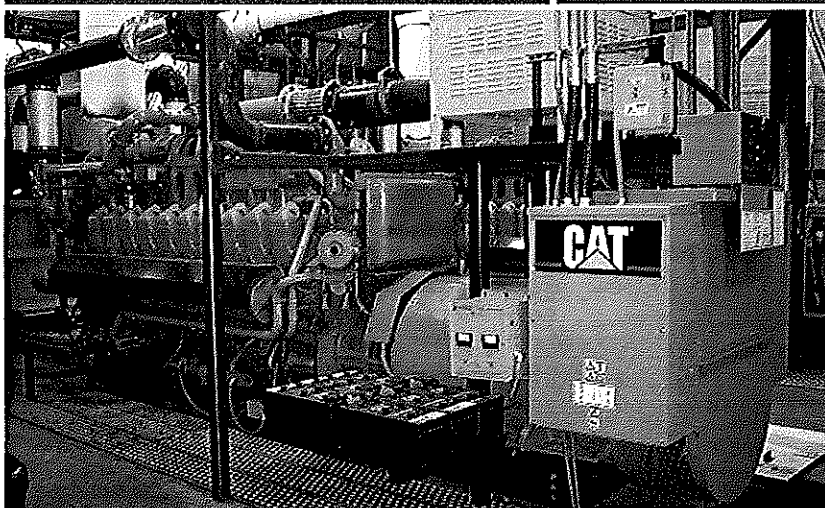
GENERAL SERVICES





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SOLID WASTE

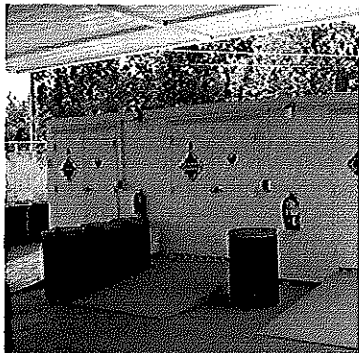
Landfill Location Studies, Design, & Closure
Transfer Stations/Volume Reduction Facilities (VRF)
Composting & Organics Management
Recycling Facilities
Landfill Gas Facilities
Household Hazardous Waste Facilities
Expert Witness Testimony
Land Surveying
Stormwater Management
Permitting
Environmental Assessment & Monitoring Services



Anchor Engineering specializes in the technical evaluation of solid waste facilities and financial evaluation of management options in Connecticut, New York, Massachusetts & Surrounding States. Our knowledge of national, state, & local governing regulations & experience in design, permitting, and operations of facilities & equipment assures that we meet the needs of every client.

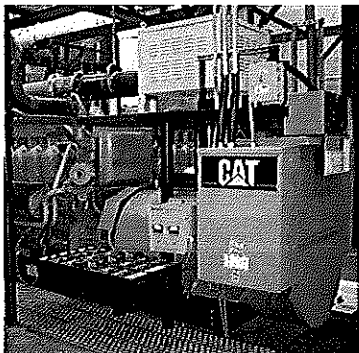


SOLID WASTE MANAGEMENT



Anchor Engineering has over 100 years combined experience in the solid waste management field. Services include design & operations monitoring of transfer stations & volume reduction facilities, design, operation and closure of landfills, composting and organics management, design & construction of recycling facilities, design & monitoring of active and passive landfill gas migration systems, household hazardous waste facilities & permitting.

Representative Projects



Landfill, Manchester

*Active facility accepting bulky, C&D, oversized MSW & special waste
Conceptual expansion plans, solid waste & water discharge consulting 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*

City Transfer Station, New Haven

*Rehabilitation & expansion of transfer station
Site layout & utility design, permitting, construction services*



Northern Capitol Region (NORCAP) Landfill, East Windsor

*42-acre regional municipal & commercial closed facility, operated for 25 years
Operational consulting services, closure administration, post-closure monitoring*

CREOC Household Hazardous Waste Facility, Manchester

*Regional Household Hazardous Waste Collection Facility
Waste management study, permitting, design, construction services*

New London Transfer Station, New London

*Reconstruction and expansion of municipal transfer station
Survey, site design, CTDEP permitting, bid assistance, construction inspection*



Landfill & Transfer Station, Old Lyme

*Active facility accepting materials from local residents & commercial customers
Capacity analyses, transfer station design, permitting & closure plans*

City of Stamford

*Planning, Permitting & Management Services
Waste management plan and procurement, operations assistance & permitting*

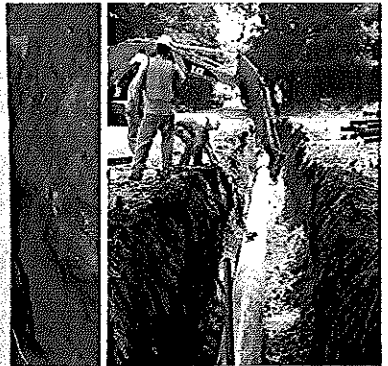
GENERAL SERVICES





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UTILITY IMPROVEMENTS

Sanitary Sewer Systems
Subsurface Sewage Disposal Systems
Stormwater Management
Water Supply
Power Generation
Mechanical Services Design & Layout
Telecommunications Layout
Utility Relocation
Utility Coordination
Construction Oversight



Anchor Engineering Services, Inc. provides utility related services throughout the duration of a project from feasibility analyses through layout, design & construction. Anchor coordinates with utility providers to ensure project deadlines are maintained. In addition, our staff has a comprehensive knowledge of National, State & Local standards and regulations required for all projects.



UTILITY IMPROVEMENTS



Our firm has years of experience assisting clients with utility layout, design & coordination projects. These projects include domestic water and fire supply mains, sanitary sewers and septic systems, gas mains, power and telecommunications. We are also experienced with renewable energy projects, such as landfill gas co-generation, biomass wood gasification and wind-to-energy.

Representative Projects



Water Main Extension, Willington

3,300' water main extension to serve Center School

Survey, utility design, local permitting, bid assistance, construction inspection

Bozrah Centre Congregational Church, Bozrah

1,200' water main extension through Norwich Public Utilities

Survey, site investigation & borings, main design, construction plans, inspection

Depot Road Water Main Extension, Mansfield

1,300' water main extension for E.O. Smith High School through CT Water

Survey, site investigation, design, railroad coordination, construction inspection

Hillhouse Avenue Bridge, Yale Campus, New Haven

Relocation of existing utilities & design of provisions for future development

Utility pole/wires, street lighting, water, gas and underground utility relocation

Fields Memorial School, Bozrah

Subsurface sewage disposal system for 450 student elementary school

Survey, testing, SSDS & pump station design, DEP coordination, bidding

NORCAP Landfill, East Windsor

3 MW Landfill Gas Renewable Energy Power Plant

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

Plainfield Renewable Energy, Plainfield

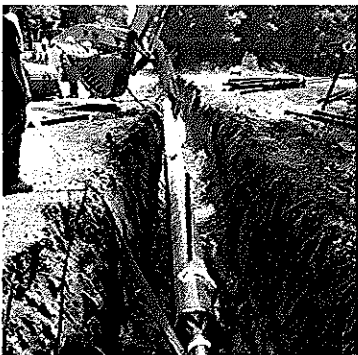
37.5 MW Biomass Renewable Energy Power Plant

Site feasibility, design and CTDPUC, Solid Waste & Diversion permitting

Sewer & Water Main Extension Feasibility Study, Suffield

Potential extension of sewer and water mains for serve Route 75

Data compilation, sewer/water flow projections, layout, cost estimating



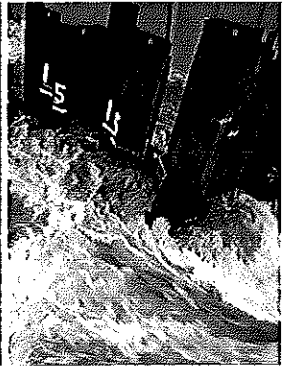
GENERAL SERVICES





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WATER RESOURCE SERVICES

Hydrologic Analysis & Design
Hydraulic Analysis & Design
FEMA FIS & Floodway Analysis
Stormwater Management
Land Surveying
GIS/Information Technology
Permitting & Representation



Anchor Engineering provides clients with a comprehensive knowledge of hydrologic, hydraulic, meteorological, environmental and water resource features necessary for watershed analysis projects. Our staff has performed hundreds of studies throughout the State for a wide variety of projects, including flooding studies, bridge replacements, stormwater collection systems and dam rehabilitations. We are also knowledgeable in Federal, State & Local regulatory and permitting requirements.



WATER RESOURCE SERVICES



Anchor has completed hundreds of watershed analyses ranging from watersheds of 1-acre to 600-square miles in size. Our services include hydrologic & hydraulic analysis and design, FEMA floodway analysis, stormwater management, GIS Geodatabase compilation and Federal, State & Local permitting.

Representative Projects



Meadow Brook Channel Stabilization, Windsor

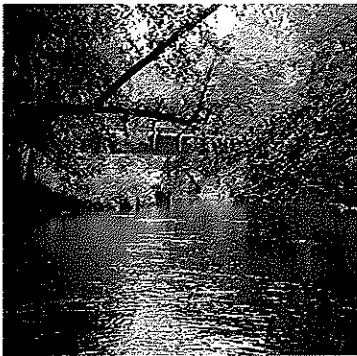
*Stabilization design to mitigate embankment failure & flow restrictions
Hydrologic, hydraulic & floodway analysis, ACOE & State permitting*

Frye Lake Dam, Greenwich

*Analysis of Greenwich Creek watershed for the Frye Lake Dam rehabilitation
Hydrologic & dam breach analysis, dam rehabilitation design, permitting*

Water Diversion Impact Analysis, Quinebaug River

*Evaluation of 800K gpd water intake structure on flood & drought conditions
Hydrologic and hydraulic analysis, floodplain capacity analysis, permitting*



Addison Road Bridge over Salmon Brook, Glastonbury

*Analysis of the watershed upstream of Addison Pond, dam & historic mill
HEC-HMS and regression watershed analysis, HEC-RAS modeling*

FEMA Floodmap Modernization Evaluation

*Comparison of mapping & evaluation of impact on adjacent property owners
GIS, FEMA map overlays and review, client representation & presentations*

Replacement of Suffield Street Bridge, Suffield

*Analysis of Stony Brook watershed
Watershed delineation, floodway encroachment & scour analysis, permitting*



Vintage at the Grove Luxury Apartments, Manchester

*Stormwater collection & treatment system analysis and design for 45-acre site
Rational Method, TR-55, pipe analysis & design, detention design, treatment*

Rehabilitation of Metro North Railroad Bridge 08086R

*Hydrologic & Hydraulic Analysis of Indian River Watershed at L.I. Sound
Riverine & Tidal hydrology & hydraulics, HEC-RAS, scour, permitting*

GENERAL SERVICES





MUNICIPAL REFERENCES

Town of Lebanon

Joyce R. Okonuk, *First Selectman*

- Replacement of Tobacco Street Bridge (860) 642-6100
- Replacement of Waterman Road Bridge
- Rehabilitation of the Hoxie Road Bridge
- Tyler Field Athletic Complex
- Design of Alden Tavern/Historic Lebanon Green Parking
- On-Call Engineering Services

Town of Bozrah

William Ballinger, *First Selectman*

- Station Road Bridge Superstructure Replacement (860) 889-2689
- Station Hill Road Ext. Bridge Deck Rehabilitation
- Bishop Road Bridge Replacement
- South Street Survey Mapping
- Bozrah Street Ext. Bridge Rehabilitation
- On-Call Engineering Services

Town of East Hampton

Michael Maniscalco, *Town Manager*

- Airline State Park Trail Extension (860) 267-4468
- Sears Park Improvements
- North Main Street Culvert Replacement
- On-Call Engineering Services

Town of Vernon

Terry D. McCarthy, P.E., *Town Engineer*

- Phoenix Street Bridge Replacement (860) 870-3663
- Bolton Road Bridge Replacement

City of New Haven

Gholamali (Joe) Moslehi, P.E., *Chief Structural Engineering*

- Hillhouse Avenue Bridge Rehabilitation (203) 946-8095
- Prospect Street Bridge Rehabilitation
- Transfer Station Design

Town of Windsor

Victoria Houle, P.E., *Assistant Town Engineer*

- Reconstruction of River Street (860) 285-1804
- STP-Urban Grant Applications
- Groundwater Reclassification through CTDEP
- Reconstruction of Elm Street
- On-call Site Plan Reviews
- Highway Garage, Parks , & Recreation Audits, Stormwater Pollution Prevention Plan



MUNICIPAL REFERENCES

Town of Waterford

Kristin Zawacki, Director of Public Works

- Bulky Waste Transfer Station Site Study & Design (860) 444-5864
- Landfill Closure Plan
- Pamela Way Sanitary Sewer Design

J. Rick Osborne III, Highway Foreman

Town of Kent

Bruce K. Adams, First Selectman

- Final Design of Macedonia Road Bridge Rehabilitation (860) 927-4627
- Preliminary Design of Replacement of Two Bridges in Macedonia Brook State Park
- Evaluation of Bridges and Culverts
- Prepare Draft Revision to Zoning Regulations

Town of Old Lyme

Bonnie Reemsnyder, First Selectwoman

- Transfer Station Permit Application (860) 434-1605
- Landfill Closure Plan
- Consent Order Assistance

Town of Manchester

Mark Carlino, Director of Public Works

- Manchester Landfill Permitting and Monitoring Services (860) 647-3067
- CREOC Household Hazardous Waste Collection Facility
- Transfer Station Permit Application Assistance

Town of Windham

Joseph Gardner, P.E., Town Engineer

- Design & Inspection of Landfill Closure (860) 456-3043
- Willimantic Reservoir Bathymetric Survey
- Design of Bikeway Bridge Rehabilitation over the Nauchaug River

Town of Hampton

Alan Cahill, First Selectman

- Sand Hill Road Bridge Replacement (860) 455-9132
- Windham Road Bridge Replacement
- Old King's Highway Bridge Replacement

PROJECT MANAGEMENT



KEVIN R. GRINDLE, ASLA, PLA

PROFILE

Mr. Grindle has been involved in and responsible for privately and publicly funded projects throughout the State of Connecticut, including numerous landscape architecture, feasibility/planning, site development, building rehabilitation and construction projects. His responsibilities have included preliminary site investigations, preparation of design plans, cost estimates, regulatory permit applications and contract documents, construction administration and the coordination with clients, engineers, contractors and sub-consultants. Mr. Grindle has represented clients before numerous regulatory boards, commissions, town meetings and public outreach sessions.

WORK EXPERIENCE

2011 – Present **Anchor Engineering Services, Inc.**

Senior Landscape Architect/Project Manager

Responsible for private and public sector projects ranging from site development, building rehabilitation, regional planning studies and regulatory approval of commercial, residential and municipal projects. Responsible for coordinating work with clients, engineers, contractors and sub-consultants along with the preparation of contract documents, bid specifications and contract administration.

2002 – 2011 **Anchor Engineering Services, Inc.**

Landscape Architect

Involved in the site analysis, design, permitting and construction administration of private and public sector projects throughout the State of Connecticut. Responsibilities included utilizing Microstation and ESRI ArcGIS software packages to perform site analysis, design layout, grading and utility design, landscape planting and erosion & sedimentation control design, preparation of application packages for local land-use commissions, State agencies including Department of Transportation, Department of Energy and Environmental Protection, Department of Health and the State Historic Preservation Office along with Federal agencies including FEMA.

2001 – 2002 **Anchor Engineering Services, Inc.**

Entry Level Landscape Architect

Assisted landscape architects, engineers, surveyors and environmental scientists with various projects in design development, surveying, construction inspection and environmental monitoring phases of projects.

REPRESENTATIVE PROJECTS

Haddam Transfer Station, Haddam, CT – Siting study, site design, permitting, inspection & construction administration for municipal landfill closure and residential transfer station.

Springhill Suites, Windsor Locks, CT – Site layout and design, landscape design, permitting and construction administration for 119-room hotel

Homewood Suites, Southington, CT – Site layout, landscape & wetland planting design and permitting for 110-room hotel

Alden Tavern Historical Site, Community Center Parking Lot, Lebanon, CT – Site design, landscape planting design, presentation rendering and construction inspection

Boundless Playground at Memorial Park, Windham – Site layout & design, landscape architecture and planting design

EDUCATION

B.S., Landscape Architecture, University of Connecticut – Storrs, Connecticut

REGISTRATION & SPECIALIZED SKILLS

Professional Landscape Architect – Connecticut

American Society of Landscape Architects – Member

Hampton Planning and Zoning Commission – Chairman

Windham Regional Council of Governments, Regional Planning Commission – Member

E-MAIL

kgrindle@anchorengr.com

DENISE P. LORD, P.E.

PROFILE

Ms. Lord has been responsible for design and project management on numerous municipal infrastructure and private development projects. Her experience has ranged from State and Federal roadway and bridge design projects, construction inspection, comprehensive storm drainage studies to design and management of residential, commercial and industrial subdivisions and site development projects. Within these projects, she has completed roadway and trail design, hydraulic analysis, sanitary sewer and water main design, detention basin design and analysis, storm drainage reports, field investigations and testing. She also provides project cost estimating, permitting, construction specifications and contract documents. Her public and private sector project experience provides insight into the needs of the client. In addition, she has developed an excellent working relationships with municipalities and CTDOT.

WORK EXPERIENCE

1997 – Present **Anchor Engineering Services, Inc.**

Senior Engineer

Senior Civil Engineer responsible for roadway design and completion of construction documents of various State, Federal and local roadway and bridge reconstruction projects. Also responsible for site layout, and design and drainage & utility design. Responsible for compiling State, Federal and Local permit packages.

1991 – 1997 **Town of Windsor**

Project Engineer

Managed and designed public works construction projects involving roadways, drainage, recreational facilities and utility relocations utilizing local, state and federal funding. Performed the review of consultant's site development and subdivision designs for compliance with the Town Engineering Standards and Specifications. Prepared grant proposal documents for the award of federal and state grants for public works projects.

1986 – 1990 **Alford Associates, Inc.**

Design Engineer

Responsible for the design and management of residential, commercial and industrial subdivisions and site development projects. Coordinated projects with local, state and federal agencies.

REPRESENTATIVE PROJECTS

Brookside Avenue Bridge, New Haven, CT – Design, contract documents & permitting
Boston Neck Road Bridge, Suffield, CT – Design, contract documents & construction inspection and administration
Hillhouse Avenue Bridge, New Haven, CT – Roadway design, contract documents & construction administration
Reconstruction of Elm Street, Windsor, CT – Roadway design & contract documents
Governor St./Route 5 Realignment, East Hartford, CT – Roadway design & contract documents (DOT Project)
Pavement Rehabilitation of Lyme Street, Old Lyme, CT – Construction inspection & administration
The Hills at River View, Norwich, CT - Site layout and design, drainage and utility design, STC permitting
Plainfield Renewable Energy, Plainfield – Stormwater, utility, erosion and sedimentation control design
Homewood Suites, Southington, CT – Utility & storm drainage layout and design for 110-room hotel site
The Village at Red Rock, Manchester, CT – Utility & storm drainage layout and design for multi-family development site

EDUCATION

B.S., Civil Engineering, University of Maine – Orono, Maine

REGISTRATION & SPECIALIZED SKILLS

Licensed Professional Engineer - Connecticut

Microstation CAD

Haestad Methods Pondpack

E-MAIL

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MICHELLE K. GOVONI, P.E.

PROFILE

Ms. Govoni works with private and public clients in a broad array of engineering projects. Her experience includes site feasibility studies, site planning, bridge rehabilitation and replacement design, hydrologic and hydraulic analysis and design, and storm drainage design. She utilizes MicroStation, ArcGIS, HEC-RAS and other computer software packages throughout all phases of design projects and has also developed the field skills necessary to perform thorough inspections.

WORK EXPERIENCE

2013 – Present **Anchor Engineering Services, Inc.**

Project Manager

Responsible for the site layout and design, bridge and roadway design, drainage design, and regulatory approval of municipal, commercial and residential projects. Also responsible for hydrologic and hydraulic analysis and design including HEC-RAS modeling of various rivers as related to infrastructure replacement and rehabilitation projects. Responsible for CTDEEP, CTDOT and ACOE permitting. Coordinates efforts with Engineers, Regulatory Staff, Contractors and Owners.

2012 – 2013 **CME Associates, Inc.**

Hydraulic Engineer

Responsible for hydrologic, hydraulic and scour analyses, report preparation and sub consultant report review for structure rehabilitations under the CTDOT Bridge Liaison program, State Local Bridge Program and Federal Local Bridge Program. Work included permit coordination and oversight of environmental permitting for CME.

2008 – 2012 **Anchor Engineering Services, Inc.**

Civil Engineer

Responsible for numerous civil related projects throughout the State. Site planning responsibilities included feasibility studies, field investigations, final layout, grading, utilities, drainage analysis and design, the regulatory approval of numerous commercial, municipal, and residential projects. Responsibilities also included the hydrologic and hydraulic analysis and design of numerous Federal, State, and Locally funded roadway and railroad bridges. Additional tasks included Geographic Information Systems analysis and map production using the ArcGIS software. Coordinated efforts with Engineers, Architects and Owners.

2006 – 2008 **Anchor Engineering Services, Inc.**

Summer Intern

Assisted design engineers, inspectors and surveyors with various projects in the design and construction phase.

EDUCATION

B.S., Civil Engineering, Lehigh University – Bethlehem, Pennsylvania

B.A., Arts & Science, Architecture, Lehigh University – Bethlehem, Pennsylvania

REGISTRATION & SPECIALIZED SKILLS

State of Connecticut Licensed Professional Engineer No. 209085

Metro-North Safety Training

Microstation CAD

United States Army Corps of Engineering HEC-RAS

ArcGIS

E-MAIL

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MICHAEL J. PARENTI, E.I.T.

PROFILE

Mr. Parenti has over six years of design experience working for consulting engineering firms. His responsibilities include the development of commercial, residential and municipal properties including the design of detailed plans, computations for reports and applications/permits needed for submissions to town and state agencies. He is proficient in AutoCAD, Microstation, hydraulic modeling and other programs needed to generate all necessary information for the design and submission of projects.

WORK EXPERIENCE

2012 -- Present **Anchor Engineering Services, Inc.**
Civil Engineer

Contributed to the design of several single span bridges for municipal bridge projects. Design of temporary construction supports, review of contractor submittals during construction. Preparation of plans, specifications and bid documents for municipal and private developments.

2005 -- 2011 **Milone & Macbroom, Inc.**
Civil Engineer

Worked on roadway design, site grading, road layout/design, storm water layout/design and analysis projects. Performed existing utility research and mapping collection (sewer, gas, electrical, communications and water), provided construction estimating, conducted site inspections during construction, and reviewed shop drawing submittals from contractors per design specifications. Key contributor to meeting customer project requirements and deadlines.

REPRESENTATIVE PROJECTS

Statewide Auto Auction, Meriden, CT -- Building addition and site layout improvements.
Capital Recycling Center, Murphey Road, Hartford, CT -- Building addition and drainage improvements.
Chatsworth Court Subdivision, Manchester, CT -- 16 unit subdivision.
Plainfield Renewable Energy Power Plant, Plainfield, CT -- Erosion & sediment inspection.
Ridgeview Condominiums, Colchester, CT -- Inspection of storm drainage and pavement installation.
Watertown Public Works Property, Watertown, CT -- Parking lot and drainage redesign for public works building.
Hampton Country Club, Hampton, MA -- Design of culverts under roadway for carts and maintenance vehicles.
Suffield Landfill, Suffield, CT -- Design and inspection of landfill closure for the town of Suffield.
New England Air Museum, Windsor Locks, CT -- Design of site plans for existing cold storage building expansion.
Taylor Bridge, Lebanon, CT -- Pavement inspection for culvert replacement.
Brewer Road Rehabilitation, East Hampton, CT -- Design of pavement replacement and drainage improvements.
ESPN Campus -- Redevelopment of ESPN campus to incorporate new buildings, roadways and utilities.
Miscellaneous subdivisions and plot plans throughout the state of Connecticut.

EDUCATION

B.S., Civil Engineering, University of Connecticut -- Storrs, Connecticut

REGISTRATION & SPECIALIZED SKILLS

Engineer - In - Training

E-MAIL

mparenti@anchorengr.com

JAMES K. O'BRIEN, P.E., L.S.

PROFILE

Mr. O'Brien has more than four decades of experience in the construction engineering industry, including inspection and contract administration for the construction of sanitary sewers, pumping stations, roadways, utilities, storm drainage, buildings, roads and bridges. He is familiar with Connecticut Department of Transportation inspection and administration requirements and has been in responsible charge for numerous construction projects with State and Federal funding.

WORK EXPERIENCE

2013 – Present **Anchor Engineering Services, Inc.**

Senior Construction Engineer

Responsible for quality assurance inspections and contract administration for roadway and bridge rehabilitation projects constructed under the CTDOT Local Bridge or STP Urban/Rural Programs.

2007 – 2012 **Weston & Sampson, Inc.**

Senior Construction Inspector

Managed the construction inspection team and provided contract administration services. The range of projects include: ten million dollars of sanitary sewers and a pumping station in Marlborough, CT, several road reconstruction projects in Cromwell, CT, pumping station projects in South Windsor, CT, sanitary and storm sewer separation projects for the MDC, SCADA projects for Waterbury, CT and a sewage treatment plant in Southbury, CT. Also coordinated and performed construction inspection on several mill and overlay projects administered by the CTDOT.

1988 – 2007 **A-N Consulting Engineers, Inc.**

Construction Engineer

Developed a construction inspection department and became a partner in the company after two years and Vice President of the corporation. Acted as the Field Services coordinator for the next twenty years until the company was purchased by Weston & Sampson, Inc.

REPRESENTATIVE PROJECTS

Town of Southington, CT – Reconstruction of Hart Street

Town of East Hartford, CT – Reconstruction of School Street

Town of South Windsor, CT – Reconstruction of Chapel Road

Town of Chester, CT – Replacement of Liberty Street and Deep Hollow Road Bridges

City of Waterbury, CT – Reconstruction of Grandview Avenue Bridge over Robbins Road

Town of East Hartford, CT – Richard Road drainage improvements

City of Middletown, CT – Reconstruction of Long Lane and East Ridge Road

Connecticut Department of Transportation – State Project No. 130-151/160 – Rehabilitation of 21 bridges from Southington to Southbury

Connecticut Department of Transportation – State Project No. 58-251 – Replacement of Bridge No. 00361, U.S. Route 1 over the Poquonnock River

Connecticut Department of Transportation – State Project No. 172-2474 – Rehabilitation of Bridge Nos. 00307, 00309, and 00285

Connecticut Department of Transportation – State Project No. 73-152 – Bridge Rehabilitation Program – List 7

Connecticut Department of Transportation – State Project No. 50-184 – Drainage improvements on Route 59, Fairfield, CT

Connecticut Department of Transportation – State Project No. 170-1049 – Bridge Rehabilitation Program – List 6

Towns of Berlin & Cromwell, CT – State Project No. 33-120 – Resurfacing and safety improvements on Route 9

Town of East Hartford, CT – State Project No. 42-264 – Route 2 over the Hockanum River

EDUCATION

B.S., Civil Engineering – University of Connecticut, Storrs, Connecticut

REGISTRATION & SPECIALIZED SKILLS

Licensed Professional Engineer & Land Surveyor – Connecticut

Vice Chairman, Killingworth Planning & Zoning Commission

Killingworth Planning & Zoning representative to the RIVERCOG Regional Planning Agency

Former Member University of Connecticut Civil & Environmental Engineering Advisory Board

Former Member Connecticut Association of Land Surveyors

JAMES K. O'BRIEN, P.E., L.S.

Member American Society of Civil Engineers
Member Killingworth Lions Club

E-MAIL

jobrien@anchorengr.com

WILLIAM E. WERTZ, L.S.

PROFILE

Mr. Wertz is a principal owner, Chief of Surveys and vice president of Anchor Engineering. Has over twenty years experience in land surveying. His experience covers all aspects of survey from historical research and boundary investigations through construction stakeout and as-built certifications. He has extensive experience working on bridge and railroad projects, topographic, hydraulic and rights of way surveys for Metro-North and highway bridges and historic records research for the Connecticut Department of Transportation, Rails Division. Mr. Wertz has worked on many projects related to easements and rights of way for municipal and private clients working to resolve property line disputes rights of way issues. As an expert witness Mr. Wertz has supported municipal and private clients for roadway R.O.W. conflicts, hazard location and adverse possession claims.

WORK EXPERIENCE

1998 – Present **Anchor Engineering Services, Inc.**

Chief of Surveys/Principal

Responsible for day-to-day operations of the survey department, including oversight of field crews, client contact, boundary research, computations, field work, mapping, and construction stakeout for roadway, bridge and site design.

1993 – 1998 **Datum Engineering & Surveying**

Party Chief/Project Manager

Responsibilities include setup and running of jobs for the field. Land records research, field and office calculations for construction and boundary surveys.

1991 – 1993 **Town Engineering**

1987 – 1990 *Party Chief/Inst. Operator/Rodman*

Responsible for boundary, topographic & construction surveys.

1990 – 1991 **Moffitt and Duffy**

Instrument Operator/Party Chief

Responsible for field jobs i.e., boundary, topographic and construction surveys.

1986 – 1987 **Windham Lumber Co.**

1983 – 1986 **U.S. Marine Corp.**

Recon and Sniper Team Leader, Scout/Sniper

Responsible for the overseeing and training of 2-5 man teams i.e., supplies, logistics, weapons and mission planning. Additional responsibilities include briefing and debriefing Co. Commanders in field situations. Proficient at map reading and Plotting and Land Navigation

REPRESENTATIVE PROJECTS

ConnDOT – Norwalk pedestrian bridge subsurface utility location

ConnDOT Office of Rails – Historic records research for right of way and ownership determination on MNR in Bridgeport

ConnDOT – Rights of way, topographic and easement surveys for dozens of highway and bridge designs

UConn, Storrs, CT – Topographic and location surveys

Town of Windsor, CT – Various Town projects including boundary surveys, topographic surveys and rights of way surveys

Windham, CT – Various projects including roadway surveys and the bathymetric survey of Willimantic Reservoir

Bozrah, CT – Various Town projects including boundary surveys, topographic surveys, site line and rights of way surveys

Lebanon, CT – Various Town projects including boundary surveys, topographic surveys and rights of way surveys

EDUCATION

Civil Drafting – Thames Valley Community Technical College – 1995

Computer Aided Drafting – Thames Valley Community Technical College – 1995

WILLIAM E. WERTZ, L.S.

LICENSES / CERTIFICATIONS / SPECIALIZED TRAINING

Licensed Land Surveyor – Connecticut

Connecticut Association Land Surveyors, Inc. (CALS) - Member

Metro-North Railroad Safety Trained

40 Hour OSHA Hazardous Waste Operations and Emergency Response Standard (HAZWOPER)

PROFESSIONAL ACCOMPLISHMENTS & ACTIVITIES

Attended Approximately 120 Hours of Continuing Education Classes conducted by The Connecticut Association of Land Surveyors (CALS)

Zoning and Land Use Update Seminar

Creation and Abandonment of Streets, Highways and Railroads (CALS)

E-MAIL

bwertz@anchorengr.com

PETER T. BUGBEE, L.S.

PROFILE

Mr. Bugbee began surveying in 1974. He earned a degree in Civil Engineering in 1979. Mr. Bugbee worked for ten years as a Sales Engineer in the aluminum industry. He returned to civil engineering specializing in land surveying. Mr. Bugbee is a Professional Land Surveyor in Connecticut.

WORK EXPERIENCE

2005 – Present **Anchor Engineering Services, Inc.**

2002 – 2003 *Land Surveyor*

Party Chief for boundary, construction stakeout and topographic surveys. DOT and Land records research for boundary surveys and Rights of Way. Data reduction and computations for field and office surveying.

2000 – 2002 **Tectonic Engineering Consultants, P.C.**

Senior Surveyor

Managed a Survey Department to augment the Engineering capabilities of the Rocky Hill, CT office. Microstation computer work for the ConnDOT property maps. AutoCAD LDD computer work for Telecommunications Department.

1999 – 2001 **Fuss & O'Neill Inc.**

Survey Technician

Project Management of survey assignments. Coordination of field crew activities. Responsible for all phases of survey work from project initiation to finished plans. AutoCAD LDD. Utilize conventional field equipment and Trimble RTK equipment.

2003 – 2004 **Design Professionals, Inc.**

1995 – 1999 *Survey Manager*

Coordinate survey crew schedules. Finish plans In Auto Cad format. Party Chief on special projects.

REPRESENTATIVE PROJECTS

ConnDOT – Location survey for dozens of bridge timber replacement designs

ConnDOT Metro North Railroad, Stratford and Springdale Stations surveys

Town of Lebanon – Various Town projects including boundary Surveys, topographic surveys and rights of way surveys

Town of Bozrah – Various Town projects including boundary surveys and topographic surveys

Town of Newtown – Multiple bridge surveys in support of civil design

Old Lyme Landfill, Old Lyme, CT – Boundary, topographic and wetlands surveys

EDUCATION

B.S., Civil Engineering, Lehigh University – Bethlehem, Pennsylvania

LICENSES / CERTIFICATIONS / SPECIALIZED TRAINING

Licensed Land Surveyor – Connecticut

Metro-North Railroad Safety Trained

PROFESSIONAL ACCOMPLISHMENTS & ACTIVITIES

Chi Epsilon Honor Society

Connecticut Association of Land Surveyors, Inc. (CALS)-Member

E-MAIL

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D. SCOTT ATKIN, L.E.P.

PROFILE

Mr. Atkin is a Licensed Environmental Professional, responsible for a broad range of environmental projects including Phase I and II site assessments, tank removal, remediation designs and oversight, waste management studies, permitting and facility design, compliance monitoring and sampling, and DEP permitting projects. Throughout his career, Mr. Atkin has gained valuable experience in environmental assessment protocols and field implementation of engineering designs.

WORK EXPERIENCE

1993 – Present **Anchor Engineering Services, Inc.**

Principal, Vice President

Duties include performing and supervising Phase I and II environmental site assessments, hydrogeologic investigations, UST removals, and voluntary remediation at release site; evaluating site-specific data in light of the Connecticut Remediation Standard Regulations; developing remediation work plans and cost estimates; performing and supervising environmental remedial activities and monitoring events; preparing stormwater pollution prevention (SWPP) and stormwater pollution control (SPC) plans; completing individual and general water discharge permits; evaluating contaminated soils and disposal requests; preparing and implementing site-specific health and safety plans (HASPs); preparing solid waste permit applications; performing facility hazardous waste audits; implementing regulatory permit compliance plans; developing spill prevention control and countermeasures (SPCC) plans; preparing individual air permit (New Source Review) applications for surface coating and landfill gas projects; providing air permit compliance record keeping information; and preparing and implementing Title V permit applications.

1989 – 1993 **Fuss & O'Neill, Inc.**

Environmental Engineer/Field Scientist

Staff engineer responsible for: environmental site assessments and industrial facility hazardous materials audits, preliminary remediation designs, solid waste facility permitting, design and inspections, contaminated material disposal evaluations, environmental monitoring, training new monitoring personnel, discharge permitting, and solid waste management studies.

1988 – 1989 **Massachusetts Department of Environmental Protection**

Region IV, Intern

Performed hydrogeologic study of a heavily industrialized area of Springfield, MA, developed a regional database of sites, and reviewed environmental site assessments.

REPRESENTATIVE PROJECTS

Banknorth – Preliminary Environmental Site Screens, Phase I and II Site Assessments

Former J & L Steel Site, Willimantic, CT – Phase I/II Site Assessment for CERCLIS site

Former New London Textile Print Company, Waterford, CT – Phase I/II Site Assessment for CERCLIS site under DEP Voluntary Remediation Program. Remedial Action Plan Development and Oversight.

Shunpike Village Shops II, Rocky Hill, CT – Phase I Environmental Site Assessment Update, Limited Subsurface Investigation, Remediation Plan Development and Implementation

NORCAP Landfill – Zone of Influence Investigation; Monitoring Program Development; Environmental Monitoring; Landfill Gas Flare Permitting

EDUCATION

□B, Civil Engineering, University of Massachusetts – Amherst, Massachusetts

LICENSES / CERTIFICATIONS / SPECIALIZED TRAINING

Licensed Environmental Professional – Connecticut

Licensed Engineer-in-Training – Connecticut

40 Hour OSHA Hazardous Waste Operations and Emergency Response Standard (HAZWOPER)

PROFESSIONAL ACCOMPLISHMENTS & ACTIVITIES

Environmental Professionals' Organization of Connecticut - Member

National Groundwater Association - Member

D. SCOTT ATKIN, L.E.P.

Professionalism & Professional Ethics for LSPs and LEPs

Slug Test Field Course

ASTM/Assessment of Vapor Intrusion into Structures on Property Involved in Real Estate Transactions

SWANA/Landfill Gas and Management

Estimated Cleanup Times Associated with Combining Source-Area Remediation and Natural Attenuation

Spill Prevention Control and Countermeasures Plan

E-MAIL

satkin@anchorengr.com

JOSEPH P. GUTIERREZ, P.E.

PROFILE

Mr. Gutierrez has twenty-one years experience focused on bridge design and construction projects. His work experience includes new bridge design, construction, and project construction administration, seismic retrofit and rehabilitation of existing bridges, tunnels, retaining walls, culverts, utility vaults, sign structures, appurtenant facilities, etc., construction inspection, construction estimating, constructability reviews, land surveying, construction staking, ALTA boundary survey, GPS, right-of-way; civil land development, sewers and storm drains, subdivisions, hydraulic analysis; transportation studies.

WORK EXPERIENCE

2014 – present **Anchor Engineering Services, Inc.**

Chief Bridge Engineer

Responsible for project management, structural analysis, engineering design, and peer review for bridges and other structural design projects.

2012 – 2013 **HNU Energy**

Performed building foundation designs for energy storage. Designed a cold-formed steel carport with photovoltaic panel roof for mass production using Hawaiian Wind Code and IBC 2012. Prepared for Structural Engineer's Exam.

2004 – 2011 **Brenton Bridge Engineering, Inc.**

Self employed

Performed design for previous associates/employers, including the East Bay Bridge Temporary By-Pass West-Tie-in, 4th St bascule bridge. Principal in-charge of structures for the Carmel Valley Road PUC Tunnel. Retrofit of BART Aerial Guideway Stations (eight stations total). Managed a peak of six employees.

1997 – 2004 **Biggs Cardosa Associates, Inc.**

Performed new bridge design, seismic retrofit of existing bridges, APM for several projects, lead environmental and civil while designing structures for the 152/156 Interchange Project. Designed several tunnels and RCB culverts including BART SFO Extension construction bid, Sand Creek PUC Tunnel. Managed one dedicated staff.

1995 – 1997 **TYLin International/McDaniel Engineering**

Assistant Project Manager

San Diego-Coronado Bay Bridge leading a \$7million design effort.

1991 – 1995 **Boyle Engineering Corp. (now AECOM)**

REPRESENTATIVE PROJECTS

SR-152/SR-156 Interchange Project (VTA, Caltrans)

Hanson Road and Vulcan Road Bridges, (Developer, Co Alameda, Ci Pleasanton, Ci Livermore)

Jack Tone Road/Hwy 99 Interchange, (Ci Ripon, Co San Joaquin, Caltrans, UPRR)

Soquel Avenue Bridge, (Ci Santa Cruz, Caltrans)

Route 73 Moulton Parkway Undercrossing Left Bridge, Laguna Hills (TCA, Caltrans)

Arizona Street Bridge, Union City

Yerba Buena Island Access Ramps (Widen) (East Bay Bridge), (Caltrans, Ci SF, AECOM)

King Road Driveway Bridge, (Developer, Ci San Jose, SCVWD)

Buchanan Street/Eastshore Highway Connection, (Ci Albany, Caltrans, UPRR)

San Francisco-Oakland Bay Bridge Temporary By-Pass Structure (Contractor, Caltrans)

Cisco Systems Five Bridges, (Developer, Ci San Jose, SCVWD)

Rancho Mission Roadway Bridge, (MTDB, Ci San Diego)

Cushing Parkway Bridge (Ci Fremont)

Horse Ranch Creek Bridge Widening at SR-76, (Co San Diego, Caltrans)

Schnoor Ave Bridge at Fresno River (Ci Madera)

Bailey Avenue at Fisher Creek (Widen) (Ci San Jose)

JOSEPH P. GUTIERREZ, P.E.

Aldercroft Creek Bridge at Old Santa Cruz Highway (Co Santa Clara Roads & Airports)
Canyon Oaks Bridges, (Developer, Ci Pleasanton)
Donlon Boulevard Bridge, (Developer, Ci Antioch)
Windemere Utility Crossing Independent Check, (Developer, Ci Martinez)
Bailey Avenue Grade Separation, Bailey Ave Overhead (VTA, Caltrans, Ci San Jose)
Sunset Rd Bridge (Ci Brentwood)
Burbank Blvd Overhead (Ci Burbank)
Buchanan St Overhead (Ci Albany)
Eden Shores Blvd Overhead (Developer, Ci Hayward)
Somerset Creek Bridge (Developer, Ci Dublin)
Martinez Marsh Restoration Project Pedestrian Bridges (Ci Martinez, EBRPD, Caltrans)
Canyon Oaks Bridges, (Developer, Ci Pleasanton)
Tassajara Creek Bridge at Central Parkway, (Developer, Ci Dublin)
Whitson Engineers/TAMC On-Call (TAMC, Carmel)
BART SFO Extension
Montgomery St UP (Valley Transportation Authority, Ci San Jose)
Sand Creek Central, (Ci Brentwood)
Lower Silvercreek Reach 4, (SCVWD, Ci San Jose)
West Cliff Drive at Swanton Boulevard and West Cliff Drive at Woodrow Avenue, (Ci Santa Cruz)
Deep Foundation Mission Center Trolley Bridge, (MTDB, San Diego)
Brentwood Park, Andrew Molera State Park, and San Felipe Road pedestrian bridges
San Diego - Coronado Bay Bridge Seismic Retrofit
Water Street Bridge, (Ci Santa Cruz, Caltrans)
Monterey County Seismic Retrofit Project (Co Monterey, Caltrans)
4th Street Bascule Bridge at Marina Creek, (Ci & Co SF)
BART Earthquake Safety Program - A, C and R Line Aerial Stations & Coliseum Walkway Pedestrian Bridge (City Oakland, BART, UPRR)
Laurel Street Bridge, (Ci Santa Cruz, Caltrans)
I-101 Ash Creek Bridge Retrofit, Cloverdale (Caltrans)
I-280 Southern Freeway Viaduct Retrofit Independent Check, San Francisco (Caltrans)
Laurel Grove Avenue POC Retrofit, Los Angeles
US 101/SR 170 Ramp Retrofit, Los Angeles (Caltrans)
Colfax Avenue POC Retrofit, (Ci Los Angeles)
Horse Ranch Creek Bridge Widening at SR-76, (Co San Diego, Caltrans)
Whitson Engineers/TAMC On-Call (TAMC, Caltrans)
Whitson Engineers/Big Sur Land Trust - Carmel River Floodchannel at SR-1 (Co Monterey, TAMC, Caltrans, BSLT)
George D. Garcia, Inc. Construction (Ci San Jose)
BART Warm Springs Extension Project at Washington Boulevard/Paseo Padre Parkway (Ci Fremont, BART, VTA, UPRR)
Coyote Valley Research Park (Ci San Jose, VTA, Caltrans, SCVWD, St CA)
I-10 / Waterman Interchange, (San Bernardino, Caltrans), and Scripps Poway Parkway / SR67 Interchange, (Ci Poway)
Schnoor Ave (Ci Madera), and Greenwood Underpass at I805 (San Diego MTDB, Caltrans)

EDUCATION

BS, Civil Engineering, San Jose State University, 1991, Structures, Transportation & Construction

REGISTRATION & SPECIALIZED SKILLS

1995, Civil Engineering (California), No. C 53273; Connecticut pending
ACEC Monterey Chapter Secretary

E-MAIL

jgutierrez@anchorengr.com

SANTO J. GIANGRAVE, P.E.

PROFILE

Mr. Giangrave has more than four decades of structural engineering experience designing structures, including buildings, bridges and retaining walls. This experience also includes engineering oversight, review, analysis of numerous structures, bridges and structural condition assessments and inspections.

WORK EXPERIENCE

2004 – Present **Anchor Engineering Services, Inc.**

Senior Structural Engineer

Responsible for performing engineering analysis and design, and peer review, for various structural design projects including State and Town owned bridges. This expertise and experience are instrumental in allowing projects to be designed and constructed economically and efficiently.

1993 – 2004 **Fuss & O'Neill, Inc.**

Senior Structural Engineer

Senior Structural Engineer participating in the design of various buildings, bridge types and bridge supported utility systems. Responsible for the design of various environmental structures.

1985 – 1993 **Codespoti Design Group, Inc.**

Chief Structural Engineer

Responsible for the design of office and commercial buildings, residential cluster housing, retaining walls and piling systems.

1977 – 1985 **Connecticut Department of Transportation, Bridge Safety Unit**

Associate Engineer

Responsible for overseeing the design of bridges and associated utilities design performed by Consultants. Supervised the inspection of bridges with appurtenant utilities for state and town owned bridges.

1970 – 1976 **C.E. Maguire**

Principal Engineer

Responsible for overseeing Consultants as the State's Liason Consulting Engineer for numerous bridges and associated utilities.

1960 – 1969 **Connecticut Department of Transportation, Bridge Design Unit**

Senior Bridge Engineer

Responsible for the design of various bridges and appurtenant utilities.

REPRESENTATIVE PROJECTS

Suffield Street Bridge Replacement, Suffield - Structural Design, Construction Engineering

Hillhouse Avenue Bridge, New Haven - Structural Design, Construction Engineering

Bozrah Street Extension Bridge, Bozrah, CT – Design

Sergeants Way Bridge, Brockton, MA – Design for the Massachusetts Highway Department

Baldwin Street Bridge/I-84, Waterbury, CT – Design for the Connecticut Department of Transportation

Murphy Road Recycling, LLC, Hartford, CT – Design of two-way floor slab to support compaction of waste into Railroad cars

Integrated Waste Solutions, LLC, Deep River, CT – Design of Tipping Floor and Steel Plated Concrete Push Walls

AHEPA, Niantic, CT – Construction management of a 250 unit elderly housing unit

Stamford Transfer Station, Stamford, CT – Rehabilitation of elevated floor slab

EDUCATION

B.S., Civil Engineering, University of Connecticut – Storrs, Connecticut

REGISTRATION & SPECIALIZED SKILLS

Licensed Professional Engineer – Connecticut (present)

Licensed Professional Engineer - New York (retired status)

Licensed Professional Engineer - Massachusetts (retired status)

American Society of Professional Engineers - Member

SANTO J. GIANGRAVE, P.E.

Chi Epsilon Honor Society
Bridge Inspection Course – George Washington University
Welding Design Course – Lincoln Arc Welding Foundation
1980 National Bridge Award – Lincoln Arc Welding Foundation

E-MAIL

sgiangrave@anchorengr.com

MICHAEL APPLEBY, P.E.

PROFILE

Mr. Appleby has over four years of design experience working for consulting engineering firms including the design of several single and multiple span bridge rehabilitation and replacement projects. Duties include bridge inspection, evaluation, and cost estimating and design for rehabilitation and replacement projects.

WORK EXPERIENCE

2009 – Present **Anchor Engineering Services, Inc.**

Structural Engineer

Design of several single and multiple span bridges for the State of Connecticut and municipal clients, including structure-type studies and cost-benefit analysis. Condition evaluation and rehabilitation design for municipal bridges. Design of temporary construction supports, review of contractor submittals during construction. Inspection, analysis, and evaluation of several bridge types.

2008 – 2008 **Appledore Engineering, Inc.**

Civil Engineering Intern

Developed site plans using AutoCAD at a small engineering firm specializing in site planning and permitting. Organized the company's transition from a paper archive to a digital archive system. Assisted project engineers on site visits and evaluations.

REPRESENTATIVE PROJECTS

Station Road Bridge, Scotland, CT - Superstructure replacement design, evaluation of existing masonry substructure, shop drawing review

Tobacco Street Bridge, Lebanon, CT - Bridge replacement, retaining wall design, shop drawing review

Prospect Street Bridge, New Haven, CT - Review of contractor submittals and engineering support during construction

Addison Road Bridge, Glastonbury, CT – Structural analysis, replacement, design

17 Bridges, Stratford, CT - Bridge condition evaluation and rehabilitation plan preparation.

Boston Neck Road Bridge, Suffield, CT - 3-span superstructure replacement design, evaluation and rehabilitation of design of existing masonry substructure, shop drawing review, engineering support during construction

Route 616 Bridge, Lebanon, CT - Design of CTDOT-owned integral abutment bridge, shop drawing review

Route 616 Bridge, Colchester, CT - Design of CTDOT-owned integral abutment bridge, shop drawing review

Route 17 Bridge, Middletown, CT - Design of CTDOT-owned rapid construction bridge replacement within 56 hour traffic outage, construction scheduling and planning

Stanton Hill Road Extension Bridge, Bozrah, CT - Concrete deck repair design and detailing

Brookside Avenue Bridge, New Haven, CT - Box culvert replacement design, shop drawing review

Walnut Tree Hill Bridge, Newtown, CT - Design of superstructure replacement and partial substructure replacement

Route 15 Bridge, Woodbridge, CT - Design of tunnel liner culvert rehabilitation, soil anchor reinforcement of existing wingwalls

Suffield Street Bridge, Suffield, CT - Design of permanent steel sheet piling, shop drawing review

EDUCATION

B.S., Civil Engineering, Temple University – Philadelphia, Pennsylvania

M.S., Civil Engineering, University of Connecticut, Storrs (In Progress)

REGISTRATION & SPECIALIZED SKILLS

Professional Engineer - CT

Visual Analysis - Software for structural analysis of 2-dimensional and 3-dimensional frames and trusses

PG Super - Software for design of prestressed concrete bridge superstructures in accordance with AASHTO LRFD

American Society of Civil Engineers - Member

National Eagle Scout Association - Member

Microstation CAD

AASHTO Trns*port Estimator - Construction Software

E-MAIL

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