



508.255.6511  508.255.6700 

260 Cranberry Highway  
Orleans, MA 02653 

[coastalengineeringcompany.com](http://coastalengineeringcompany.com) 



## ENGINEERING SERVICES PROPOSAL

# On-Call Peer Engineering Consulting Services Town of Wareham, MA



10.18.2022

Submitted to:  
Town of Wareham  
Attn: Derek Sullivan, Town Administrator  
Town Hall, 54 Marion Road  
Wareham, MA 02571



Submitted by:  
Coastal Engineering Company, Inc.  
260 Cranberry Highway  
Orleans, MA 02653





October 18, 2022

Town of Wareham  
Attn: Derek Sullivan, Town Administrator  
Town Hall, 54 Marion Road  
Wareham, MA 02571

**RE: Proposal for On-Call Peer Engineering Consulting Services**

Dear Mr. Sullivan:

Enclosed please find three (3) hard copies and one digital file, as requested in response to your Request for Proposals (RFP) for On-Call Peer Review Engineering Consulting services for the Town of Wareham.

We are confident that our proposal clearly presents our ability to perform the necessary professional services requested in the RFP. Based on the qualifications of our team, our relevant project experience working for Massachusetts municipalities, and our knowledge of the local regulations and site conditions, we believe that Coastal Engineering Company, Inc. is well qualified to provide the requested engineering peer review consulting services. As registered professional engineering and design firm with a long, positive track record of servicing Massachusetts municipalities, we believe that we are favorably disposed to offer our collective years of experience to offer professional services that will meet or exceed the Town's project objectives. Our multi-disciplined team approach, coupled with the valuable insights and understanding of the regulatory process garnered through our years of work on projects in environmentally sensitive areas, puts us in a unique position of having the ability to provide prompt and competent services to the Town.

Thank you for the opportunity to submit a proposal on this assignment. We look forward to a favorable response from your review committee.

Very truly yours,  
COASTAL ENGINEERING CO., Inc.

A handwritten signature in black ink, appearing to read "J. Bologna", is written over a white background.

John A. Bologna, P.E.  
President/CEO

## COMPANY PROFILE



Coastal Engineering Company (CEC) Coastal Engineering Co. is a leading provider of land surveying, civil, structural, and marine engineering, and environmental permitting services to Cape Cod, the Islands, and Southeastern Massachusetts.

### EXPERTISE IN ENVIRONMENTALLY SENSITIVE AREAS

*Based on Cape Cod, a region of significant environmental exposure and sensitivity, we are exceptionally experienced in:*

- Site development and land use planning
- Low Impact Development
- Marine and waterfront infrastructure
- Shorefront protection and coastal resiliency
- Building design for hurricane and flood prone regions
- Historic preservation
- I/A wastewater treatment and disposal
- Environmental permitting and regulatory reviews
- Construction contract administration

### WORKING RELATIONSHIPS WITH REGULATORY AGENCIES

Since our founding in 1976, we have expanded our staff to 40+ employees and broadened our expertise to keep abreast of the increasing environmental concerns and government regulations that affect our clients and the communities in which we practice. We understand the intricacies of the federal, state, and local regulations that affect our clients' projects, and have developed cooperative working relationships with the various regulatory agencies.

### SOLUTIONS FOR THE BENEFIT OF OUR CLIENTS AND COMMUNITY

We are committed to providing designs and solutions that are not only right for our clients, but are right for the community too. That may be the reason why so many of our clients repeatedly return to do business with us again.

### CORPORATE OFFICES

260 CRANBERRY HIGHWAY, ORLEANS, MA

88 ROUTE 6A, SANDWICH, MA

11 SOUTH SHORE ROAD, NANTUCKET, MA

42 ALBION ROAD SUITE 104, SMITHFIELD, RI

25 FOX ROAD, WALTHAM, MA

## PROFESSIONAL SERVICES



### LAND SURVEYING

- Boundary Surveys
- Data Accumulation Surveys
- Topographic and Hydrographic Survey
- Upland Surveys using GPS Equipment
- Land Court Surveys
- Right of Way and Easement Determinations
- ALTA/NSPS (Title Insurance) Surveys
- Certified Plot Plans
- Subdivision and ANR Plans
- Elevation Certificates

### CIVIL ENGINEERING

- Project Planning and Feasibility
- Site Analysis, Development, and Design
- Roadway and Parking Design
- Stormwater Drainage Design
- Sanitary Sewage Disposal Design
- Wastewater Treatment Plant Design
- Water Supply Testing and Hydrogeology
- Soil Evaluation and Geotechnical Analysis
- Local, State, and Federal Permitting

### STRUCTURAL ENGINEERING

- Structural Analysis and Design
- Foundation Engineering
- Building Renovation and Rehabilitation
- Code Compliance Issues
- FEMA Coastal Design
- Retaining Wall Design
- Historical Building Restorations

### MARINE ENGINEERING

- Existing conditions and marine structures evaluations
- Feasibility studies and harbor management plans
- Coastal engineering and marine structures design
- Hydrographic surveys and dredging design
- Environmental regulatory review and permitting
- Construction administration and support services

### TECHNICAL SERVICES

- Wastewater Treatment Plant Operation and Maintenance
- Groundwater Monitoring Well Installation and Sampling for Underground Tanks
- Lithologic Boring and Standard Penetration Tests

# CIVIL ENGINEERING



## APPROACH

Coastal Engineering has been providing civil engineering services to public and private clients for nearly 35 years. Whether a residential project or a large-scale commercial or institutional development, attention to the details can be the difference in making a project a success.

Coastal Engineering pays attention to the details. Preparing designs that are constructible has always been a hallmark of Coastal Engineering.

Our engineers use their experience and ingenuity to prepare designs that meet today's tough environmental standards, while being ever mindful of the construction logistics and the construction costs associated with implementing our designs. In essence, we value engineer every project before it goes to bid.

## SERVICES

- Project Feasibility and Site Development
- Road Design
- Stormwater Management
- Sewage Disposal System
- Wastewater Treatment Plant Design
- Water Supply Testing and Hydrogeology
- Soil Evaluation and Geotechnical Services

# STRUCTURAL ENGINEERING



## APPROACH

Coastal Engineering's award-winning staff of licensed engineers and engineering professionals works in partnership with our customers, to accommodate their engineering needs. Whether dealing with Cape Cod's unique historical structures, the redevelopment of existing, rundown commercial buildings, or new business and residential developments, Coastal Engineering has the expertise to ensure structural soundness and present-day building code compliance.

We pride ourselves in finding innovative and sustainable solutions to structural engineering problems.

## SERVICES

- Structural Consultation and Evaluation
- Structural Analysis and Design
- International Building Code Existing Structures Evaluation
- Foundation Engineering
- Building Renovation and Rehabilitation
- Code Compliance Review
- Historic Building Renovation
- FEMA/Flood Resistant Design
- Coastal Construction and Development
- Construction Contract Administration for Controlled Construction
- Structural Forensics
- Structural Strengthening for Change of Use and Code Upgrades

# MARINE AND COASTAL ENGINEERING



## APPROACH

Marine and coastal engineering ensures that structures in a coastal environment, such as Cape Cod and the Islands, are safe, functional, and efficient. Coastal Engineering Co., Inc. has done extensive work throughout Cape Cod in the design and permitting of these structures. In addition, Coastal performs hydrographic surveys by a certified hydrographer using real-time differential GPS equipment.

Our established working relationships with local, state, and federal regulatory agencies aid in the efficient processing of permits and licenses through legal channels.

The Marine Engineering Division provides a full scope of professional services for engineered coastal structures, coastal zone projects, and wetlands and waterway projects, including:

## SERVICES

- Existing conditions and marine structures evaluations
- Feasibility studies and harbor management plans
- Coastal engineering and marine structures design
- Hydrographic surveys and dredging design
- Environmental regulatory review and permitting
- Construction administration and support services

## PROJECTS

- Marinas and waterfront facilities
- Seawalls, bulkheads, and revetments
- Boat ramps and fishing piers
- Docks, wharfs, and piers
- Boardwalks and pile supported structures
- Beach nourishments and shoreline stabilization
- Bio-engineering (soft solutions)

## LAND SURVEYING



### APPROACH

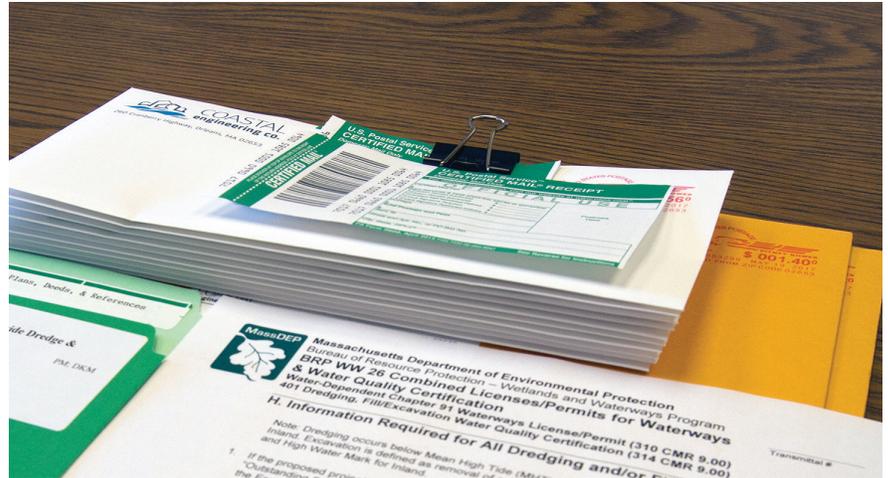
Coastal Engineering Company has land surveying experience and local survey records dating back to 1947. Many of the subdivisions designed and monumented by Coastal Engineering, as well as services toward perfecting various boundary claims, have allowed owners to correctly identify their properties, saving the need for costly litigation. Our survey personnel have extensive experience in Registry of Deeds and Land Court plans, Certified Plot Plans, boundary and site development plans, and subdivision plans.

### SERVICES

We offer a full array of surveying services to complement our engineering departments:

- Boundary Surveys
- Data Accumulation Surveys
- Topographic Surveys
- Flood Elevation Certificates
- Certified Plot Plans
- Hydrographic Surveys
- Upland Surveys using GPS Equipment
- Land Court Surveys
- Easement and Right-of-Way Surveys
- ALTA/NSPS Surveys

# ENVIRONMENTAL PERMITTING



Expertise in engineering design, thorough understanding of complex codes and regulations, established working relationships with regulatory agencies, and signature project advocacy are key elements to our projects' regulatory success. Our consulting and processing support services include determination of applicable permits required by the boards and committees; assistance in application process; deadline tracking and permit compliance coordination; public hearings attendance; construction contract administration; and permit close out.

## RESIDENTIAL AND COMMERCIAL DEVELOPMENT

- Conservation Commission
- Board of Health
- Planning Board
- Zoning Board of Appeals
- Building Department
- MA DEP
- MA DOT

## SHOREFRONT PROTECTION

- Conservation Commission
- Zoning Board of Appeals
- MA DEP

## BEACH NOURISHMENT

- Conservation Commission
- Board of Selectmen
- MA DEP
- MA EEA

## PIERS, MARINAS, AND BOARDWALKS

- Conservation Commission
- Waterways Committee
- Shellfish Committee
- Zoning Board of Appeals
- MA DEP
- USEPA
- US Army Corps of Engineers

## DREDGING

- Conservation Commission
- Waterways Committee
- Shellfish Committee
- MA DEP
- MA EEA
- US Army Corps of Engineers

# COMPREHENSIVE PERMIT APPLICATIONS PEER REVIEW

Town of Eastham, MA

Coastal Engineering Co., Inc. performed engineering design peer reviews and provided feedback for Comprehensive Permit Applications pursuant to M.G.L. Chapter 40B and 760 CMR 56 submitted to the Town of Eastham. Two projects recently reviewed for the Town of Eastham include projects referenced as "Governor Prence Residences", a proposed 50 unit (2 building) rental apartment community, and "Campbell-Purcell Community Housing Development", a proposed 65 unit (18 building) rental apartment community.

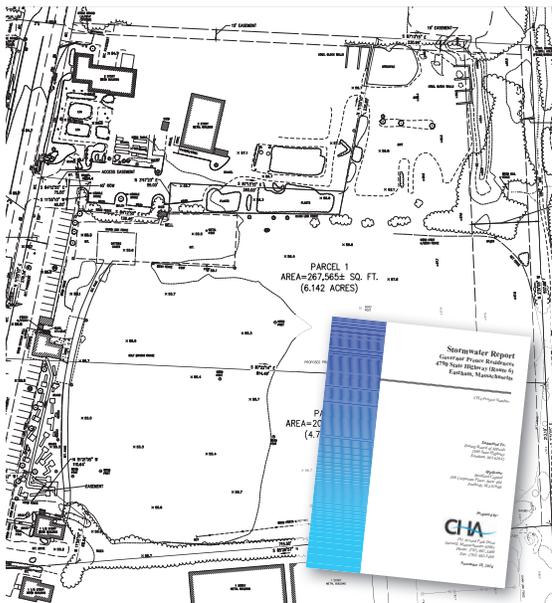
The level of peer review differed for each project. One peer review included a review of the submitted civil site plans and stormwater report for their general conformance with applicable provisions of the Town of Eastham By-Laws and MassDEP Stormwater Handbook. The other peer review included a "higher level" look at the civil engineering design to identify technical design issues, identify potential health and safety issues to the general public, and to confirm the incorporation of best practices into the civil engineering design.

A memorandum summarizing the review findings and providing comments was prepared as part of both reviews. The general and specific comments provided feedback on the technical details of the design, identified minor design inconsistencies, and requested clarification and more information where adequate detail was not provided to complete a full review.

Following the review and memorandum preparation, Coastal Engineering Co., Inc. worked collaboratively with both the Town and Design Team to provide representation at public hearings and provide concise and timely feedback as the peer review feedback and comments were addressed

## SERVICES

- Site visit to observe the existing site conditions
- Review submitted Civil Site Plans and Stormwater Report
- Prepare a report summarizing review findings and providing comments
- Collaborative coordination with the Town and Design Team during design revisions



# BANDSHELL RESTORATION

Wareham, MA

Coastal Engineering worked with Stephen Kelleher Architects to provide a civil/structural conditions and feasibility assessment for the restoration of the historic Lillian Gregerman Bandshell in Onset (Wareham), MA. Over the years the bandshell has been reconstructed but always in the same location with the most recent remodel being done in 1997. The goal of this project is to upgrade the bandshell and surrounding grounds, including masonry, structural, electrical, landscape, and associated work.

## SERVICES

- Existing conditions assessment of the site and structure.
- Report of findings to document existing conditions with recommendations for any needed repairs or improvements.
- Consult with the Architect to study the feasibility of restoring and improving the existing site and structure, including:
  - Structural retrofit repairs and improvements to restore the existing structure
  - Schematic site improvements to the existing infrastructure to promote ADA compliance and improved access to the site.
- Assist with the review of the project cost estimate based on the selected plans.



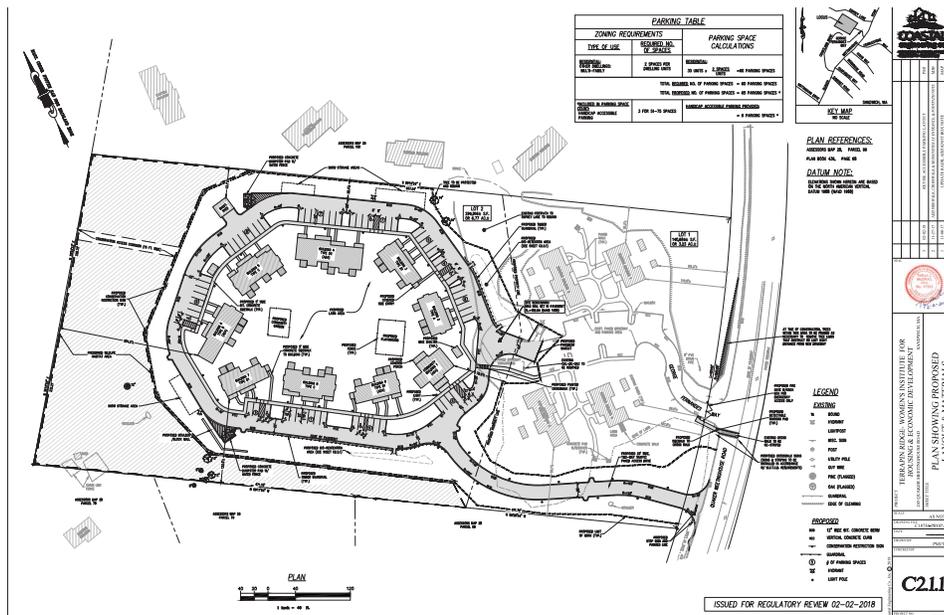
# TERRAPIN RIDGE

Sandwich, MA

Coastal Engineering Co. is working with Brown Lindquist Fenuccio & Raber Architects, Inc to provide surveying, engineering, and permitting support services in connection with an affordable housing development proposed by Women's Institute for Housing and Economic Development on an approximately 6.8 acre site in Sandwich, MA. The development includes eight residential buildings plus a community building, communal lawns, playground, and garden. A total of 30 units will be offered as a mix of one, two, and three-bedroom units (58 bedrooms total).

## SERVICES

- Survey and preparation of existing conditions topographical site plan
- Civil engineering and preparation of plans for site layout and grading, sanitary sewage and stormwater management systems, access driveway/road and utilities
- Soil testing and design of a conventional Title 5 sewage disposal system
- Land use permitting



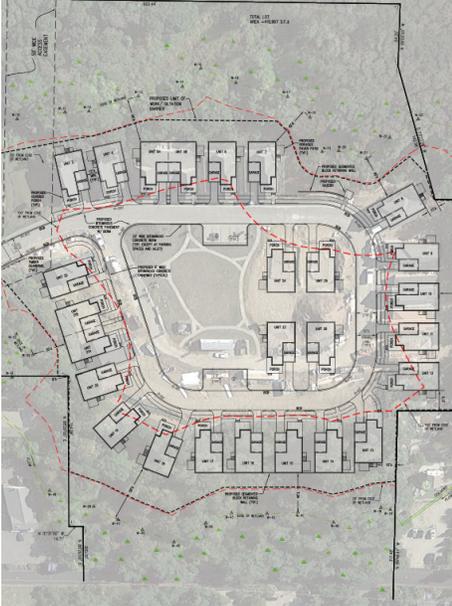
# BREWSTER LANDING

Brewster, MA

Brewster Landing is a residential cottage community consisting of 26 single family cottages and 2 multifamily duplexes. The community is permitted and constructed under the provisions of M.G.L. c. 40B and includes 8 affordable units. This “Nantucket” style home development is sited on 9.4 acres near Route 6a in Brewster. Units are offered in both 2 and 3 bedroom styles. Prior to development, this was a vacant site located in an environmentally sensitive area. Coastal Engineering Co. helped to fully develop the site, designing within the constraints of the applicable regulations to provide protection of the nearby wetland area. An example of low impact development design used at this site is the installation of 4 rain gardens to naturally filter stormwater runoff through mulch and soil layers while the roots of the bioretention/rain gardens plant’s uptake runoff and utilize pollutants such as nitrogen and phosphorus for plant growth. The project is a huge success; only one unit currently remains for sale.

## SERVICES

- Survey and soil testing
- Civil engineering and site plan preparation for site grading, stormwater management system, new road and new utilities including water, gas and electric
- Site evaluation and design of a sewage disposal system that includes an I/A wastewater treatment system
- Environmental permitting and regulatory review
- Construction layout and survey
- Construction administration



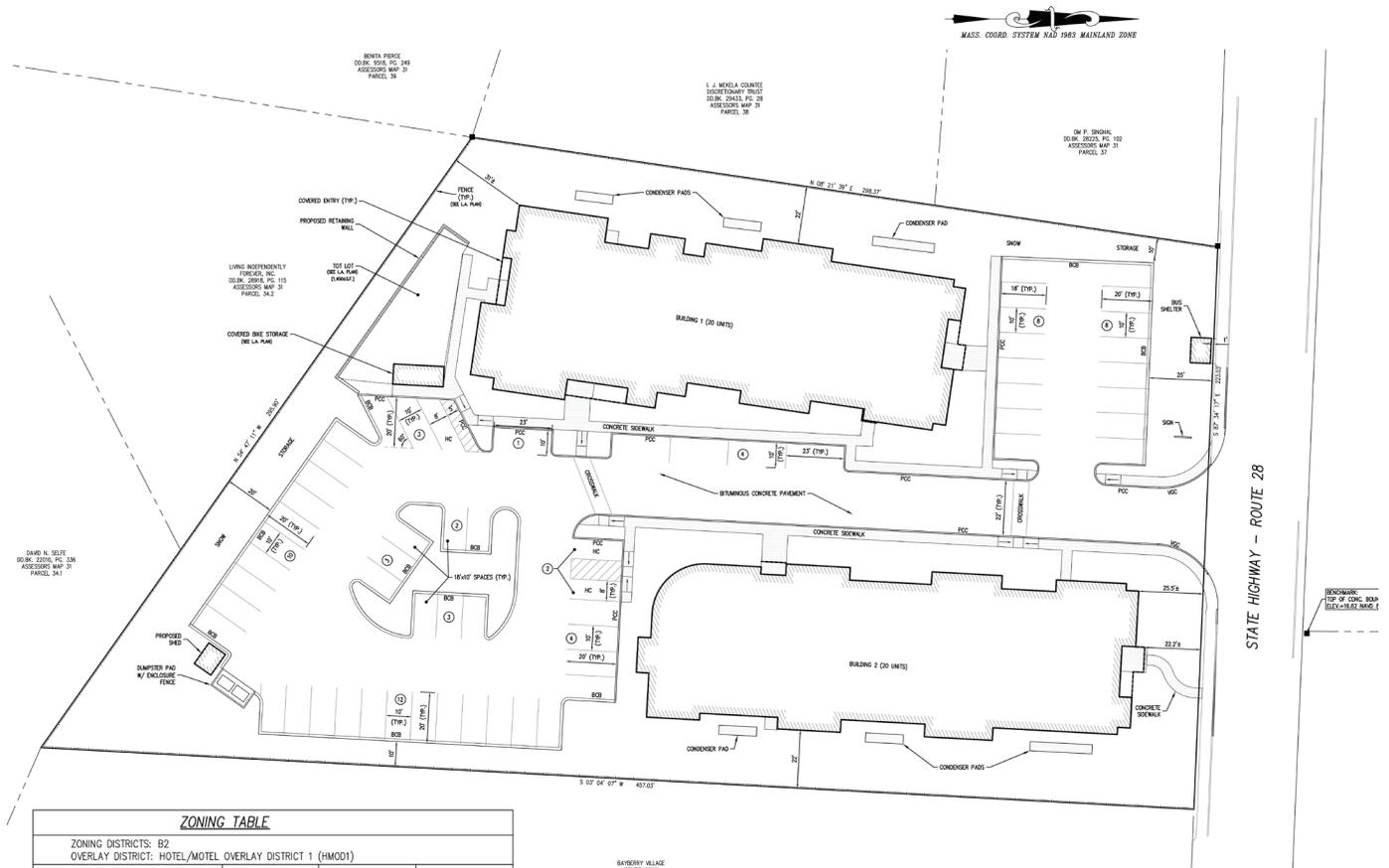
# RESIDENCES AT YARMOUTH GARDENS

Yarmouth, MA

Coastal Engineering Co. is working with Winslow Architects, Inc to provide surveying, engineering, and permitting support services in connection with an affordable housing development proposed by Commonwealth Community Developers, Inc. on an approximately 2.1 acre site in Yarmouth, MA. The development includes two residential buildings with a playground. A total of 40 units will be offered as a mix of one and two-bedroom units (72 bedrooms total).

## SERVICES

- Survey and preparation of existing conditions topographical site plan
- Civil engineering and preparation of plans for site layout and grading, sanitary sewage and stormwater management systems, and utilities
- Soil testing and design of a Title 5 sewage disposal system with I/A treatment
- Land use permitting



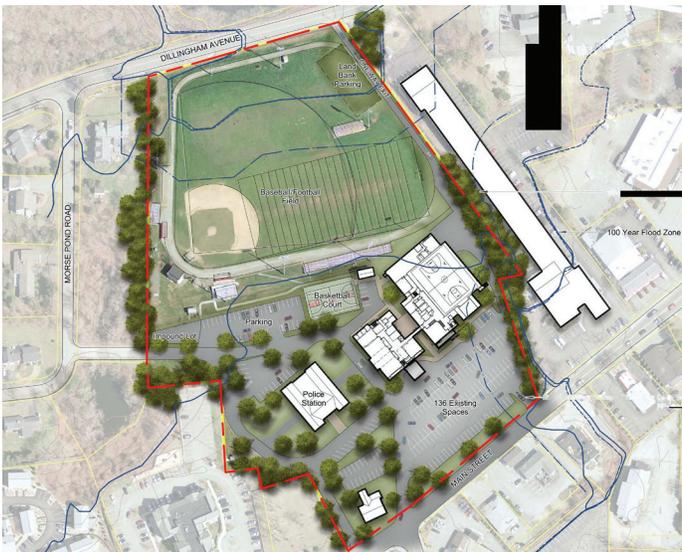
# SENIOR CENTER

Town of Falmouth, MA

Coastal Engineering Co. is currently working with Bargmann Hendrie and Archetype on designing a new Senior Center for the Town of Falmouth. The proposed facility is to be constructed on Town property adjacent to the existing Gus Cauty Community Center and the Falmouth Police Station, as an addition which will consist of a two-story building with a partial basement, containing approximately 15,000 square feet of gross area. The goal is to construct a senior center that would best meet the needs of the community, as well as would integrate well with adjacent uses, all while being completed within the budget approved by the Town.

## SERVICES

- Civil engineering evaluation and site feasibility assessment
- Existing conditions survey
- Site engineering, including site layout, grading, and drainage
- Permitting
- Structural engineering design and plan preparation
- Construction contract administration



Renderings by Bargmann Hendrie and Archetype

# PAMET HARBOR PUBLIC ACCESS BOARD PARKING LOT

Town of Truro, MA

Pamet Harbor is Truro's only public harbor, providing commercial and recreational boating access to Cape Cod Bay. Coastal Engineering Co. was hired by the Town of Truro to redesign the parking lot and manage the construction administration and inspections on the project. The parking lot drainage system was designed with a large infiltration system that absorbed 100% of the storm water produced in a 100 year storm event. This was part of the project to make sure the Pamet river habitat did not receive any pollutants from the heavily used lot. The lot layout was modified to accommodate the maximum number of trailer spaces and handicap access to the harbormasters new building and the boat ramp. Our survey department supplied custom computer files to contractor to enable them to grade the entire project using machine control on their bulldozer to ensure the tight grading design was constructed properly.

## SERVICES

- Feasibility study and evaluation report
- Engineering analysis and design of drainage and parking lot improvements
- Design plans and specifications
- Public bid process and project award administration
- Construction contract administration and oversight



# VARIOUS ROAD DRAINAGE IMPROVEMENTS

Town of Provincetown, MA

The Town of Provincetown DPW engaged Coastal Engineering Co. to design improvements to various stormwater drainage facilities. The scope involved reviewing record data and aerial topographic plans in order to estimate the area contributing stormwater to the subject sites, hydrologic calculations to determine peak runoff volumes and flow, evaluating hydraulic capacity of existing drainage system, review alternatives with regard to controlling flooding in the subject areas, and engineering design of preferred alternative for drainage system repair based upon feasibility and economic considerations.

## SERVICES

- Assessment of existing conditions
- Evaluation and recommendations regarding drainage system repair alternatives
- Preparation of construction plans with details
- Construction bid documents
- Construction bid administration
- Construction contract administration



# GRAY'S BEACH BOARDWALK

Town of Yarmouth, MA

Gray's Beach boardwalk is a pre-existing pier-type structure, delineated by a shoreline to the east, marsh to the north and south, and a creek to the west. The boardwalk was constructed in phases and had been shortened and rebuilt several times. Being in daily use, it had reached a point where a full investigation was warranted. Coastal Engineering Company, Inc. was contracted to evaluate the boardwalk to see if the existing structure has sustained either biological or physical damage. An above and partial underwater survey has been conducted in accordance with Naval Engineering Facilities Service Center guidelines for underwater inspection criteria. Using the information gathered in the investigation, Coastal Engineering Co. prepared a structural evaluation report, repair recommendations, and cost analysis for the above referenced site, along with references, photographs, calculations, and construction drawings associated with the task at hand.

## SERVICES

- Existing conditions assessment report
- Recommendations for retrofit repairs and preliminary cost estimate
- Design of boardwalk improvements
- Permitting
- Preparation of construction drawings and specifications
- Construction administration



# GREAT RIVER PUBLIC ACCESS FACILITY

Town of Mashpee, MA

Coastal Engineering Co. (CEC) was retained by the Town of Mashpee to provide professional engineering and environmental permitting services for replacement of the existing very popular single-wide boat ramp with a double-wide boat ramp to better serve the boating community. The existing 16'-wide concrete boat ramp and adjacent floating dock were designed to be replaced with a 40'-wide concrete boat ramp that includes an 8'-wide floating dock down the middle of the ramp to provide ADA-accessible access to the ramp from both sides of the dock. This boat ramp expansion project is located in an extremely sensitive environmental resource area which required an extensive level of environmental permitting at the local, state, and federal levels. Following the preparation and submittal of a MEPA filing, the proposed project was fortunately determined to not require the filing of an Environmental Impact Report. CEC completed the final design of the facility and then assisted the Town with construction bid administration. The boat ramp project was constructed during the 2017/2018 winter construction period.

Another component of this project included the engineering design and environmental permitting for the enlargement and reconstruction of the existing parking area located adjacent to the boat ramp site, necessitated by heavy public use of the facility. This design and permitting work included the introduction of a comprehensive infiltrative stormwater runoff collection system into the site access road and parking area to substantially reduce the existing overland flows down the boat ramp and into Great River. This portion of the project was constructed during the 2014/2015 winter construction season.

## SERVICES

- Data accumulation, including topographic and hydrographic surveys at the site
- Engineering design for boat ramp, pier, parking area, and stormwater runoff facility
- Permitting for Notice of Intent with the Conservation Commission and DEP, Chapter 91 License, Army Corps of Engineers permit



# RECREATION FACILITY AT JOHN'S POND

Town of Mashpee, MA

Coastal Engineering Co. was engaged by Town of Mashpee to provide engineering services for improvements to the John's Pond Recreation Facility. The parking lot is close to the elevation of the pond, and the existing stormwater management systems were inadequate and lying in groundwater. A playground at the facility was located on the opposite side of the parking lot from the beach.

Coastal Engineering designed a reconfigured parking lot that reduced the amount of pavement within the pond's buffer zone, improved traffic circulation, increased the number of accessible parking spaces, added dedicated bus parking, and relocated the playground to be adjacent to the beach to improve children safety. We designed new stormwater management systems for the parking lot that include bio-filtration basins to provide stormwater treatment prior to discharging into new subsurface recharge basins located above high groundwater elevation. We also designed a new sewage disposal system for a future restroom building that will accommodate up to 600 users per day.

## SERVICES

- Existing conditions site plan
- Engineering design and plan preparation for proposed recreation facility
- Environmental permit application and processing



## ELLIS LANDING

Town of Brewster, MA

Ellis Landing is a Town of Brewster public beach access and parking area for one of the most heavily used beaches in the Town. For many years, the beach in front of the access/parking area had been eroding, with stormwater flow coming down Ellis Landing Road also contributing to erosion.

The Town of Brewster DPW engaged Coastal Engineering Co. to devise a mitigation plan and oversee construction. The key components of the mitigation constructed by NETCO were the Shorebloc concrete mats to reduce the energy of the uprush of storm waves and surf, coir envelopes, and a Cultec storm water container storage/ infiltration system. The parking area was regraded and paved to redirect storm water flow. The project was completed within a tight, 6-week schedule.

### SERVICES

- Coordination with private and Town property owners to determine maintenance responsibilities
- Construction bid documents
- Construction layout
- Construction contract administration



# WEYMOUTH BEACH CONNECTION

City of Weymouth, MA

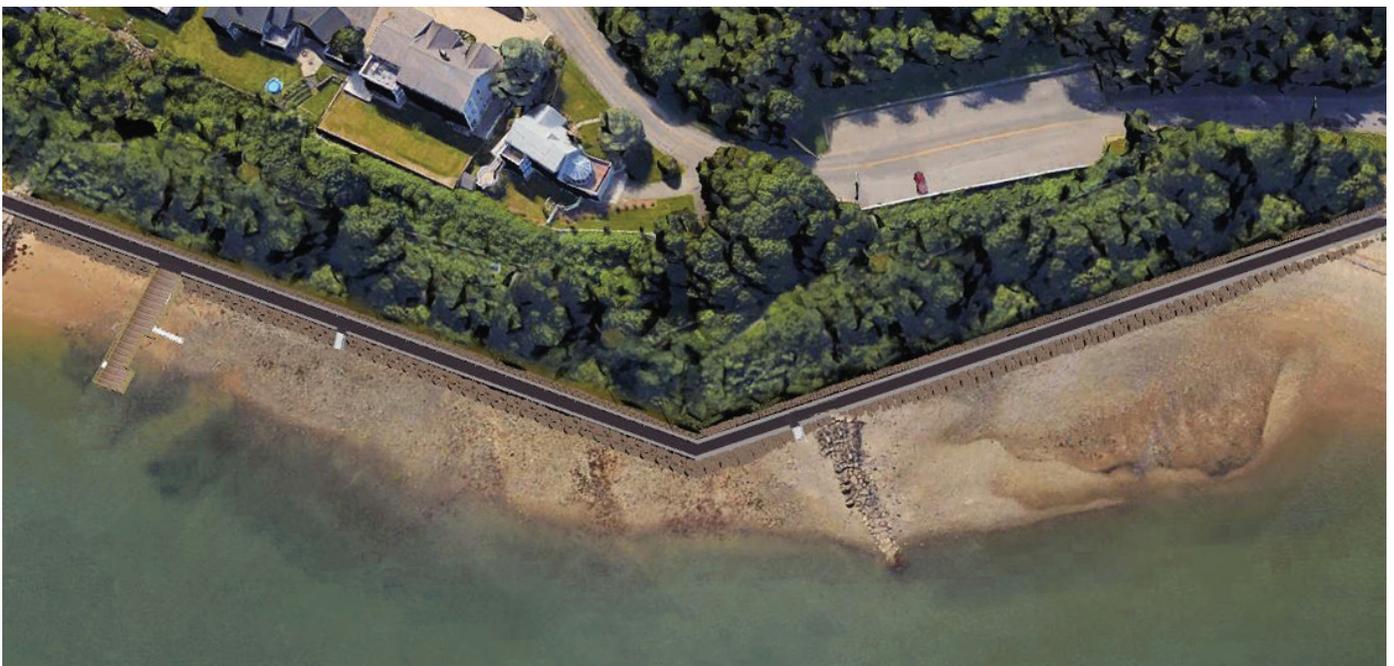
Situated along the Weymouth Fore River, Wessagusset Beach and George Lane Beach are separated by 2,000 feet of rocky coastline that is inaccessible and abuts a steep, heavily vegetated coastal bank. The new boardwalk construction project, financed by the Seaport Economic Council Program grant, aims to increase accessible open space at Weymouth's beaches while enhancing opportunities for passive recreation along the town's waterfront. Other project considerations include parking, erosion, stability of existing revetment/shorefront structures, storm drainage, and interpretive signage at the site.

Coastal Engineering is currently designing a new waterfront connecting link between the two beaches. The project consists of approximately 1,000 linear feet of an eight-foot-wide boardwalk, reconstruction of the existing rock revetment, 1,000 linear feet of beach mats, new sidewalk from the upper parking area, additional handicap accessible parking at the entrance of the boardwalk, as well as replacement of existing concrete access stairway with a new pre-cast concrete stairway.

Coastal Engineering is also working with Kyle Zick Landscape Architecture and the Town of Weymouth to enhance and restore the vegetation on the coastal bank of the site. The majority of the bank is comprised of invasive species that destabilize the slope. The design team is developing a vegetation management and maintenance plan that will enhance the area not only for slope stability, but for wildlife habitat and aesthetics purposes.

## SERVICES

- Existing conditions site survey
- Engineering feasibility assessment and design study
- Vegetation management and maintenance plan
- Permit plans and ACOE permit and Chapter 91 license filings, including NOI
- Final plans, specifications, and cost estimates
- Construction bid documents and construction contract administration



## PROJECT STAFFING

Coastal Engineering Company, Inc. has a diverse team of design professionals dedicated to serve our clients' needs. to assure task continuity, prompt delivery of services and completion of assigned tasks. Our team is managed by registered Professional Engineers and Land Surveyors to ensure each project is sufficiently staffed. The following represents personnel that will be available to be assigned to the project, with the responsibilities noted:

### COASTAL ENGINEERING CO., INC.

**John A. Bologna, P.E. – Principal-in-Charge/Project Executive**

Overall responsibility for project direction and assurance that the project is delivered to meet the Town's schedule and expectation.

**David J. Michniewicz, P.E. – Civil Engineering Division Manager/Senior Registered Professional**

Responsible for civil engineering project oversight, reports, plan reviews and consultations with clients.

**Todd D. Turcotte, P.E. – Waterfront-Marine Engineering Division Manager/Senior Registered Professional**

Responsible for marine engineering project oversight, reports, plan reviews and consultations with clients.

**Todd M. Chapman, P.L.S. – Land Survey Division Manager/Senior Registered Professional**

Responsible for oversight of any needed surveys and preparation of the existing conditions and topographical site plans.

**Carla Davis – Permitting Specialist**

Responsible for assisting with preparation of local, state, and federal permits and permit processing.



## John A. Bologna, P.E.

*President / Chief Executive Officer*

Years of Experience: 42 years of experience, including 34 years with Coastal Engineering Co., Inc.

John A. Bologna, P.E., is CEO and President of Coastal Engineering Co., Inc. as well as the Department Head for the firm's structural and coastal engineering divisions. As Principal-In-Charge, he has served as the lead design professional on many large-scale commercial and municipal projects that required multiple levels of coordination with staff, regulatory agencies, and other design professionals. He has directed the design of engineering projects for residential, commercial, institutional and industrial construction projects, including multi-family dwellings, schools, churches, mercantile centers, community centers, historic preservation projects, office buildings, power utility, industrial and marine structures with a specialization in coastal engineering structures. Mr. Bologna has a wide range of experience and a particular interest in early American historic building restoration and marine coastal construction projects. He has in-depth knowledge of building codes, project permitting and public bidding requirements. Mr. Bologna has served on several professional technical committees, including the BBRS Coastal Zone Sub-Group and the Task Force for Hurricane Resistant Construction. He has served as an adjunct professor in Construction Technology at Cape Cod Community College, and is a frequent presenter at construction industry training workshops. He currently serves on the College's Education Foundation Board of Directors and also donates his time to a number of charitable organizations. Mr. Bologna is recognized at the Barnstable Superior Court as an expert witness and has provided professional testimony on a number of construction arbitration causes.

### Educational Background

- Rice University, Houston, Texas, Bachelor of Science in Civil Engineering
- Rice University, Houston, Texas, Master of Civil Engineering
- Cape Cod Community College – Adjunct Professor in Construction Technology

### Continuing Education

- ASCE Continuing Education Programs
- MIT Seismic Design Lecture Series
- AISC Steel Structural Design Seminar
- ACI Seminars on Building Code Requirements
- Historic Structures Restoration and Renovation Seminar
- BSCE Soil/Structure Interaction Seminar
- ACOE Coastal Construction Seminar
- ASBA Coastal Engineering Conference
- ACEC Engineering Business Leadership and Project Management Training

### Registrations and Professional Affiliations

- Registered Professional Engineer – Massachusetts Registration No. 33776
- Registered Professional Engineer – Connecticut Registration No. PEN 0022498
- Massachusetts Society of Professional Engineers – Member
- American Society of Civil Engineers – Member

## Registration and Professional Affiliations (continued)

- American Shore and Beach Preservation Association
- American Wood Council – Member
- American Institute of Steel Construction – Member
- American Concrete Institute – Member
- Structural Engineering Institute – Member
- National Trust for Historic Preservation – Member
- National Home Builders Association – Associate Member
- Home Builders and Remodelers Association of Cape Cod – Associate Member
- Cape Cod Community College Educational Foundation – Board of Directors Member

## Awards and Honors

- J.M. Rockwell Scholarship, Rice University
- Texas Society of Professional Engineers Scholarship, Rice University
- Kappa Mu Epsilon, Mathematics Honor Society – Member
- Chi Epsilon, Civil Engineering Honor Society – Member
- Home Builders Association of Cape Cod, Associate of the Year Award – 2003 & 2008
- Home Builders Association of Cape Cod, Special Recognition Award – 2004
- Provincetown Preservation Award, Eastern School House, Binder-Boland Associates – 1998
- Falmouth Design Award, Plymouth Savings Bank, Noah Greenberg, Architect – 2002
- Falmouth Preservation Award, Fenno House, WHOI, Noah Greenberg, Architect – 2002
- American Registry of Outstanding Professionals – 2007
- Massachusetts Home Builders & Remodelers Association – Legend of Industry Award – 2013
- BRICC Award, Best Engineering Project – 2016, 2014, 2012

## Publications and Professional Presentations

- Engineering New Record - Rare Inclined Elevator Is Nearly Complete at Pilgrim Monument, 2020
- Civil + Structural Engineer - Monumental Technology, 2020
- Civil Engineering - Inclined Elevator Improves Access To Historical Monument, 2020
- Cape & Plymouth Business - STEM and Building a Future Generation of Engineers, 2019
- Home Builders Association of Cape Cod – Presentation on New Code Requirements for Wood Frame Structure Design in Hurricane-prone Areas, 2018
- Charlestown Waterfront Coalition – Presentation on Flood Zones Overview and Allowed Mitigation Strategies, 2018
- Cape & Plymouth Business - Sellers' Due Diligence: The Importance of Permit Closeout, 2018
- Cape Housing Institute – Presentation on Zoning and Site Selection, 2017
- Home Builders Association of Cape Cod – Engineering Angles Presentation, 2017
- Cape & Plymouth Business – Is Zoning Doing What Was Intended for Cape Cod Housing, 2017
- SEAMASS - Presentation on ASCE 24-10 Code Requirements for Construction in Flood-Prone Regions, 2016
- Cape & Plymouth Business – Tact, Push, and Principle, 2016
- Journal of Light Construction, How Does Wood Work with Steel in a Composite Beam, 2010





## David J. Michniewicz, P.E.

*Civil Engineering Division Manager*

David J. Michniewicz has 45 years of civil and environmental engineering experience with Coastal Engineering Company, Inc.

Mr. Michniewicz manages the company's civil engineering projects, responsible for overseeing a wide array of state, municipal, commercial, and residential projects. He also serves as a project manager on special projects, being highly experienced in site planning and environmentally responsible site development, roadway and parking design, stormwater management using Best Management Practices and Low Impact Development techniques, flood mitigation, municipal water and sewer systems, and sewage treatment and disposal system design, including Title 5 septic systems, Innovative/Alternative treatment systems, and large-scale wastewater treatment plants.

Mr. Michniewicz also has extensive experience in environmental and land-use permitting with state, county and municipal agencies, including zoning boards, planning boards, boards of health, Cape Cod Commission, Massachusetts Department of Environmental Protection, Massachusetts Department of Energy and Environmental Affairs, and Massachusetts Department of Transportation.

Mr. Michniewicz's project experience includes municipal buildings, schools, shopping centers, resort hotels, retail and office buildings, banks, multi-family and affordable housing developments, subdivisions, roadways, and single-family dwellings.

### Education

University of Massachusetts at Amherst, Bachelor of Science, Civil Engineering

### Continuing Education

- Real Estate and Construction Issues for Schools in Massachusetts Seminar
- Zoning and Land Use in Massachusetts Seminar
- Erosion and Sediment Control Workshop
- Porous Asphalt Pavement Seminar
- MALSCCE – Stormwater Management Seminar
- Nitrogen Removal: On-site Wastewater Systems Seminar
- Managing Small Scale, Alternative & On-Site Wastewater Systems Seminar
- OSHA Construction Safety and Health Training Course

### Registrations and Professional Affiliations

- Registered Professional Civil Engineer - Massachusetts Registration No. 31493
- Massachusetts Approved Soil Evaluator - License No. SE1623 (Inactive)
- Massachusetts Approved Title 5 System Inspector (Inactive)
- American Society of Civil Engineers, Fellow
- National Society of Professional Engineers, Member



## Todd D. Turcotte, P.E.

*Waterfront/Marine Division Manager*

Years of Experience: Over 27 years of engineering experience.

Mr. Turcotte is a professional civil engineer with extensive experience in marine and geotechnical/structural projects. He has managed and designed projects for industrial, commercial, municipal, and residential clients including piers, wharves, docks, bulkheads, ship berths, wave attenuators, dredging, petroleum facilities, pipelines, and shorefront protection. He also has an extensive knowledge of permitting on the federal, state, and local levels. Mr. Turcotte brings a unique perspective to projects as having 10 years of experiences as the Owner of a Petroleum storage facility with a large ship berth loading and offloading facility and over a million barrels of aboveground petroleum storage in the Port of Providence.

Prior to joining Coastal Engineering, Todd worked for several regional engineering companies and was the co-founder of RT Group, Inc., a well-recognized firm specializing in the design and management of projects in the marine and heavy industrial and commercial markets. Projects he managed and/or designed over his 27 plus year career include:

- Barge Breasting Dolphin, Middle Dolphin, and Mooring Dolphin Improvements Project
- 10-Year Improvements Planning, Wilkesbarre Petroleum Vessel Off-loading Facility
- Maintenance Dredging and Bulkhead Replacement Chemical Facility
- Condition Assessment Report for Waterfront Structures of a Fuel Handling Terminal
- Newport Marine Ferry Terminal Facility, RIDOT
- Aboveground Petroleum Storage Facility Expansion, 5-yr Project
- 24-inch Medium Pressure Steam Pipeline Above and Below Ground Replacement Project
- Pier 2, US Navy Complex, Design Study Assessment Report for Underwater Repairs

For 10 years, Todd as President, was responsible for all business aspects of Capital Terminal Company aboveground petroleum storage facility operation, engineering, maintenance, improvements, and compliance.

### Educational Background

- Roger Williams University, Bristol, RI, Bachelor of Science in Civil Engineering

### Registrations and Professional Affiliations

- Rhode Island Registered Professional Engineer #7627
- NCEES Record (In Progress for MA and CT licensing)
- American Society of Civil Engineers
- American Petroleum Institute



## **Todd M. Chapman, P.L.S.**

*Land Survey Division Manager*

Years of Experience: Over 36 years of experience

Todd Chapman, P.L.S. is very experienced in all aspects of land surveying, including cadastral and topographical surveys, boundary retracement, ALTA/NSPS Land Title Survey plans, FEMA elevation certificates, construction surveys, “as-built” surveys, GNSS control networks, geodetic control surveys, tunnelling surveys, MASSDOT right of way retracement and mapping surveys, photogrammetric control surveys for aerial mapping and deformation monitoring surveys. In addition, Mr. Chapman’s experience includes deed and plan research and preparing subdivision plans, Approval Not Required plans, Land Court petition plans, certified plot plans, and condominium plans for recording at Registries of Deeds and/or for filing with the Massachusetts Land Court.

In his capacity as Survey Division Manager, Todd is responsible for overseeing the day-to-day operations of the Survey Division including client contact, supervising staff, scheduling, and overseeing office and field work.

Mr. Chapman is a member of the Massachusetts Association of Land Surveyors and Civil Engineers, the National Society of Professional Surveyors and has provided expert testimony in the Massachusetts Land Court.

### **Educational Background**

University of New Brunswick, Fredericton, New Brunswick, Canada  
Surveying Engineering

Wentworth Institute of Technology, Boston, MA  
Electrical Engineering

### **Registrations and Professional Affiliations**

- Registered Professional Land Surveyor – Massachusetts License No. 46322
- OSHA 10 hr. safety training



## **Carla A. Davis**

*Environmental Permitting Specialist*

Carla Davis' expertise in the environmental regulatory compliance field includes experience in permitting residential, commercial, and public projects with federal, state, and local regulatory agencies. She also has experience in managing regulatory compliance including monitoring of project performance for conformance with permit limitations and reporting the results to the appropriate environmental, health, and safety agencies. Her experience includes permitting of projects under the Massachusetts Wetland Protection Act and Regulations, local Wetland Protection Bylaws and Regulations, Massachusetts Chapter 91 Waterways Regulations, Army Corp of Engineers Regulations, Massachusetts Title 5 Regulations, and local Board of Health Regulations.

Ms. Davis' professional experience also includes working for local Water and Sewer Districts where her duties included overseeing control of expenditures through a warrant process, generating fiscal year operating budgets, and internal audits. She has prepared monthly and annual water quality reports for Massachusetts Department of Environmental Protection. She has also managed contractor applications and water/sewer connections database, issued licenses, permits, and work orders, and maintained the water meter replacement/repair program. Additionally, Carla served as Clerk and Board Secretary for the respective Water and Sewer Districts for 15 years. She was responsible for keeping the records, verifying registered voters, and certifying annual town meeting and loan/grant documentation as needed.

## REFERENCES

### TOWN OF WELLFLEET, MA

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**Contact:** Jay Norton, DPW Director  
**Address:** 220 West Main Street  
Wellfleet, MA 02667  
**Phone:** (508) 349-0315  
**E-mail:** jay.norton@wellfleet-ma.gov

### TOWN OF YARMOUTH, MA

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**Contact:** Jeffrey Colby, DPW Director  
**Address:** 99 Buck Island Road  
West Yarmouth, MA 02673  
**Phone:** (508) 398-2231 Ext 1291  
**E-mail:** jcolby@yarmouth.ma.us

### TOWN OF SANDWICH, MA

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**Contact:** Mick Dunning, Harbormaster  
**Address:** PO Box 1393  
Sandwich, MA 02563  
**Phone:** 508-833-0808  
**E-mail:** mdunning@sandwichmass.org

ATTACHMENT A – Required Submission Form

SUBMISSION FOR: Peer Engineering Consulting Services for the Town of Wareham

Company Name: Coastal Engineering Company, Inc.

Individual Contact Name: John A. Bologna, P.E.

Title: President/CEO

E-Mail jbologna@coastalengineeringcompany.com

Address: 260 Cranberry Highway, Orleans, MA 02653

Company Address: 260 Cranberry Highway, Orleans, MA 02653

Phone: 508-255-6511

Fax: 508-255-6700

Signature of Individual Authorized to Submit:



Print Name: John A. Bologna, P.E., President/CEO

ATTACHMENT B CERTIFICATE OF NON-COLLUSION FORM The undersigned certifies under penalties of perjury that this bid has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, entity, or group of individuals.



John A. Bologna, P.E., President/CEO (Name of person signing)

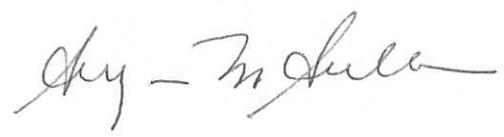
Coastal Engineering Company, Inc. (Name of business)

ATTACHMENT C TAX COMPLIANCE CERTIFICATION Pursuant to M.G.L. Ch. 62C, Sec. 49A, I certify under the penalties of perjury that I, to my best knowledge and belief, I am in compliance with all laws of the Commonwealth relating to taxes, reporting of employees and subconsultants, and withholding and remitting child support. Suzanne M. Sullivan, Clerk/Treasurer (Name of person signing) Coastal Engineering Company, Inc. (Name of business)



ATTACHMENT D – Certificate of Authority Meeting of Board of Directors At a meeting of the Directors of the Coastal Engineering Company, Inc. duly (Corporation) called and held at 260 Cranberry Highway, Orleans, MA 02653 on the 4th day of December, in the 2009 year at which a quorum was present and acting, it was voted, That John A. Bologna the President/CEO of this (name) (title/position) Corporation is hereby authorized and empowered to submit, make, enter into, sign, seal and deliver, on behalf of this Corporation a Contract for Peer Review Consulting

(brief description) with the Town of Wareham, and to issue any response, performance, or payment bonds if required in connection with such Contract. I hereby certify that the above is a true and correct copy of the record, that said vote has not been amended or repealed and is in full force and effect as of this date, and that John A. Bologna is duly elected President/CEO of this Corporation. Suzanne M. Sullivan Clerk or Secretary of the Corporation





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/14/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> RogersGray, Inc. - Kingston Branch 63 Smith Lane Kingston MA 02364	<b>CONTACT NAME:</b> <b>PHONE (A/C No. Ext):</b> 508-746-3311		<b>FAX (A/C, No):</b> 877-816-2156
	<b>E-MAIL ADDRESS:</b> mail@rogersgray.com		
<b>INSURER(S) AFFORDING COVERAGE</b>			<b>NAIC #</b>
<b>INSURED</b> Coastal Engineering Co., Inc. 260 Cranberry Highway Orleans MA 02653	COASENG-01		<b>INSURER A:</b> American Casualty Company of Reading, 20427
			<b>INSURER B:</b> Safety Indemnity Insurance Company 33618
			<b>INSURER C:</b> CNA/Continental Insurance Company 35289
			<b>INSURER D:</b> CNA/Continental Casualty Company 20443
			<b>INSURER E:</b> Navigators Specialty Insurance Company 36056
		<b>INSURER F:</b>	

**COVERAGES**

CERTIFICATE NUMBER: 1627904334

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:			4014263925	4/10/2022	4/10/2023	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
							MED EXP (Any one person)	\$ 5,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
B	<input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			6228101	4/10/2022	4/10/2023	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
C	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			4014263973	4/10/2022	4/10/2023	EACH OCCURRENCE	\$ 5,000,000
							AGGREGATE	\$ 5,000,000
								\$
D	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WC5 91226173	4/10/2022	4/10/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
							E.L. EACH ACCIDENT	\$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
E	Professional Liability			NY21MPL0BTTDPIC	4/10/2022	4/10/2023	Per Claim Aggregate	\$2,000,000 \$2,000,000

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**

When Required by Written Contract the Following Applies:  
 General Liability - Additional Insured Completed Operation (CNA75081XX 01-15) Waiver of Subrogation (CNA74859XX 10-16)  
 Automobile - Additional Insured, Primary and Non-Contributory Basis, Waiver of Subrogation (SCA 005 04-17)  
 Excess/ Umbrella - Follow form over underlying General Liability, Automobile, and Employers Liability  
 Wilkinson Ecological Design, Inc. is listed as cited above.

**CERTIFICATE HOLDER****CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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## FEE SCHEDULE STANDARD PROJECTS

*January 1, 2022*

Project Executive	\$260/hour
Expert Witness	\$300/hour
Senior Registered Professional / Senior Project Manager	\$205/hour
Senior Engineer / Senior Land Surveyor / Project Manager	\$170/hour
Senior Project Engineer / Senior Project Land Surveyor	\$155/hour
Project Engineer / Project Land Surveyor	\$140/hour
Staff Engineer / Staff Land Surveyor	\$115/hour
CAD Technician	\$115/hour
Permitting Specialist	\$115/hour
Field Personnel	\$115/hour
Field Personnel with specialized equipment	\$190/hour
Clerical / Word Processing	\$80/hour

**NOTE: Actual invoicing on some projects may vary due to complexity.**

- Travel, where applicable, will be charged at 58.5 cents per mile or by expense incurred.
- Consultants, subcontractors, equipment, and other expenses are billed at direct costs plus 20% service charge.