

SOLUTIONS

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GEOD Offers You:

- Traffic Studies/ Intersection Design
- Surveying
- Parking/Roadway/ Highway Design
- Municipal Peer Engineering Reviews
- Site Analysis/ Design
- Stormwater Management
- Wastewater Management/ Water Works Engineering
- Wetlands Protection
- Coastal Facilities Engineering

GEOD Acquires Mainstream Engineering



President, Chris Emilius, P.E. (right) welcomes Tom Sexton, P.E., as GEOD's new VP

GEOD Consulting, headquartered in Burlington, MA, with branch offices in Wolfboro, NH and Clifton and Newfoundland, NJ, recently acquired Mainstream Engineering, Inc. of Kingston, MA, adding yet another dimension to its already diverse resume of services. Mainstream is a vastly experienced and well-established civil engineering firm specializing in municipal consulting with strong emphasis on coastal facilities, water works, stormwater management, wetlands protection and development peer review. Mainstream's President, Tom Sexton, P.E. has joined GEOD as a Vice President. Read more

about Tom on page four.

This acquisition brings GEOD the advantage of an extensive municipal engineering client base as well as the proximity of its southeastern Massachusetts office locale in Kingston. Mainstream, through its President, Tom Sexton, has served as a consultant to local and state agencies through New England. They have provided design, permitting and construction oversight relative to all types of projects.

Past experience includes a wide variety of municipal stormwater mitigation, roadway, drainage, utility, and site plan projects, including design drawings, contract documents, environmental permitting and construction administration for departments of public works, water departments, state agencies and watershed associations. Mainstream's municipal project experience also includes roadway renovations, bridge repairs, sewer replacements, dam repairs, piers, jetties, boat ramps, revetments and dredging projects.

GEOD believes that the talents embodied by Mainstream will both complement and enhance its ability to service clients.

GEOD Aids Revitalization in Buzzard's Bay

The village center at Main Street in Buzzards Bay is undergoing a major transformation intended to develop a more unique character and attract new visitors and businesses. The shops, restaurants, recreational amenities and open spaces, not to mention the nautical history of the area, will be

showcased to increase public awareness and interest, particularly that of the high volume of summer traffic. Revitalization goals include improvement of the streetscape and canal access, creation of public facilities, and improvement of traffic signage, all with attention to greater pedestrian and cyclist

usage. GEOD's streetscape plan is to give this quaint village a cohesive identity, enhance its visual character and increase economic vitality.

Distinctive street furniture, bicycle racks, trash receptacles, street **(continued, page three)**

Cotuit Landing, Barnstable

GEOD is providing comprehensive design and permitting services to the Town of Barnstable for maintenance dredging at Cotuit Landing, in the vicinity of the village pier. The project includes restoration of the intertidal and subtidal bottom profile to provide adequate low water depth for commercial and recreational boating activities. The timing of dredging and dredged material disposal activity is being designed to minimize adverse impacts on shellfish beds in the intertidal zone and coastal vegetation. Suitability of the dredge material for beach nourishment at nearby beach sites is being evaluated by core sampling and laboratory analyses. If suitable, the beach nourishment sites will also be permitted via the Army Corps of Engineers, the Massachusetts Department of Environmental Protection and the local conservation commission. Other considerations include the need for work area containment, sedimentation control, and dewatering of dredge materials prior to transport. GEOD's final task will be to prepare contract documents for competitive bidding, implementation of the dredging work and environmentally-protective measures.



Cotuit Landing

Public Safety Issues of Paramount Importance at GEOD

Has MassHighway come knocking on your "municipal" door to discuss public safety transportation improvements?

If not, GEOD recommends YOU call THEM. Based on current economic stimulus philosophy, now is the time to get transportation projects designed and "shovel ready approved."

GEOD's experience in traffic and transportation engineering is extensive and its reputation for superior performance well-known. GEOD can turn your project from a dream into the reality of construction documents within just a few short months.

Recent GEOD undertakings include:

Route 135/Frankland Road Intersection Design, Ashland

GEOD is redesigning an existing four approach, offset unsignalized intersection to create a safe vehicular and pedestrian-friendly environment in the Town of Ashland. The minor roadway approaches have limited site distance due to poor vertical geometry on Highway Route 135. By staying within the existing ROW, developing creative lane assignments and

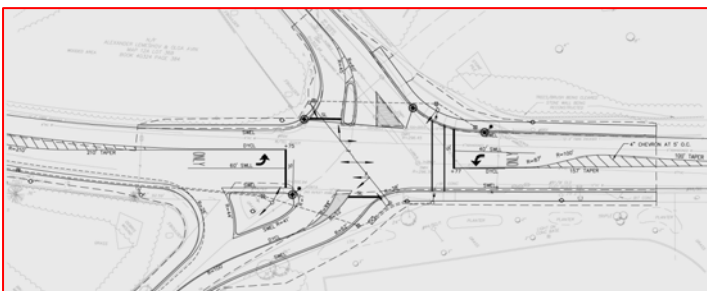
configurations, and signaling the intersection, GEOD is creating a safer environment for both the vehicular and pedestrian public.

Route 24/Depot Road/Batherick Road Inter-section Design, Westminster

The Rte 2A/Depot Road/Batherick Road intersection in Westminster is a four approach unsignalized intersection directly off of Route 2, in north/central MA. An adjacent land parcel is the site of a future business park which will engulf the intersection and render the operational capacity inadequate. GEOD has performed a comprehensive study and analysis illustrating the intersection's limited capacity and high accident rate. Signalization and geometric revisions are being designed to address all safety and capacity issues.



Ashland Intersection— Before ▲ After ▼



Buzzard's Bay Revitalization—Continued

lighting, brick side-walks, raised cross-walks, and signage will enhance the village atmosphere. Street trees and shrubs species are being painstakingly selected so that they will be both conducive to the salt air conditions and road pollutants, as well as create the desired "Main Street Pedestrian Village" atmosphere.

Integrating low impact design

features into the landscaping, such as bio-retention areas (rain gardens), is a design element that will be used for some of the planting strips. This integration will provide a unique opportunity to incorporate ecological 'green' features which would distinguish the

village locally as well as nationally.

GEOD is also creating an easterly pedestrian and bicycle pathway to the canal, possibly to be located adjacent to the post office. This multi-use path will contain public facilities, benches and bike racks to enhance usage of the canal area. Reduction of curb cuts by increasing shared access drives will increase safety for pedestrians, cyclists and motorists.

Presently stormwater runoff from Main Street discharges to Bourne Pond and the Cape Cod Canal. With this project, the opportunity now exists to remediate these discharges making the project even more environmentally friendly. GEOD is evaluating the existing drainage system in the project area for oppor-



Main Street, Buzzard's Bay

tunities to achieve MDEP Stormwater Management goals for redevelopment.

The Buzzard's Bay Revitalization Project is one of several currently being undertaken at GEOD.

**Coreen V. Moore,
Bourne Town
Planner:**

“The Town of Bourne is pleased to be working with GEOD. GEOD will help to advance our Downtown revitalization efforts by providing engineering and landscape design services in Phase III of the Downtown Streetscape project.....We are confident that GEOD will help us to achieve our goals efficiently and cost-effectively. “

▶ GPS Surveys for Beach Erosion

Using state of the art technology, GEOD has been providing one-man crews for the survey of beaches in the Cape Cod area. The surveys are being requested by several geotechnical firms to detect the extent, if any, of erosion.

GEOD uses Real Time Kinematic (RTK) to establish survey traverse control, photogrammetric ground control, site topographic surveys and other elements of the project. RTK GPS is where a correction is applied to a rover unit(s) in real time in the field from a base station set on a point with known coordinates.

“GEOD uses Real Time Kinematic (RTK)..”

Call Lawton Struble, PLS in GEOD's Burlington office for more information on how this type of survey might suit your project.



Meet Tom Sexton, P.E.

GEOD's recent acquisition of Mainstream Engineering, Inc. of Kingston, MA brought Tom Sexton, P.E. to GEOD as its new Vice President. Tom's 25 years of professional engineering experience adds new dimensions to GEOD's already diversified resume.

Tom received his B.S. in Civil Engineering from Clarkson University in 1984. Over the years, Mr. Sexton has continually kept up-to-date on aspects of his profes-

sion through courses such as: The National Ground Water Association's "Capture Zone Analysis for Contaminant Remediation and Wellhead Protection", the University of Massachusetts' "Soils Evaluator Training", the Massachusetts DEP Short-Course "Stormwater Management Policy", the University of Massachusetts' "Institute for Drinking Water Treatment" and the RICRMC Master Design Certificate Program in "Low Impact Development."

Tom Sexton is a licensed professional engineer in the State of Massachusetts and a DEP Certified Soils Evaluator. He maintains memberships in numerous federal, state and municipal profession-related organizations.

Tom has published an extensive number of municipal engineering articles as well as having been responsible for numerous presentations on municipal regulations and infrastructure.



..Tom Sexton, P.E., GEOD's new Vice President...

Tom Sexton, P.E. will be in charge of GEOD's Kingston, MA office.

Read more about Tom's company, Mainstream Engineering, Inc. on page one.

New Dimensions Have Been Added to GEOD's Already Extensive Resume of Services



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