

# South Weymouth Naval Air Station Site Development

## Rockland, Abington and Weymouth, Massachusetts

### PROJECT GOALS

- Site Redevelopment
- Hazardous Waste Cleanup
- Peat Removal

### PROJECT DURATION

Ongoing

### PROJECT COST

Ongoing

### TEAM MEMBERS

Paul Costello, P.E.

Phil McNulty, P.E.

Jason Federico



Staff members of Polaris Consultants have been engaged to assist with the civil site engineering, environmental cleanup, contractor procurement and construction oversight for a large private redevelopment in Weymouth, Massachusetts. The proposed project is being managed by Tishman Construction, on behalf of LNR Development Corp., and will consist of 2,500 units of housing, 400,000 square feet of commercial/retail development and a new 18-hole golf course. The recent focus has been on the first phase of the work that is currently in construction. Phase 1 includes the construction of

35,000 linear feet of utilities, subgrade preparation for 500 units of housing, roadway construction and connection to the Town of Weymouth water and sewer systems.

Site preparation activities are ongoing and include the demolition of a large paved and concrete slab area; demolition of seven existing structures along the main access road; general grading to increase the grade across the Site by 2 to 5 feet; construction of utilities including two large detention ponds; excavation of large quantities of peat and organic silt materials and replacement with suitable backfill; and installation of sewer utility structures.



To date, Polaris Consultants' staff have provided wide variety of civil/site and environmental services. The civil/site work has focused on assessing the existing conditions and development constraints associated with existing soil conditions in the vicinity of Phase 1, conducting and independent review of a proposed 1 MGD wastewater treatment system needed for subsequent phases of development, evaluating alternative water supply sources, and assisting with the design of 8.5 miles of water main to the Site from an MWRA connection in Quincy.

Polaris Consultants' staff has assisted in analyzing a variety of foundation related options for addressing the subsurface conditions for Phase 1 and the most efficient Conceptual Layout, given the project constraints. Foundation options included the surcharging of organic materials; soil excavation and backfilling; installation of geopiers and helical piles; in-situ ground improvements; and a variety of combined options. Our analysis included detailed assessment of soil characteristics (including potential settlements); soil quantity estimates using AutoCAD 2007 and Civil 3D software; assisting with a variety of conceptual layouts; and cost estimating.

1940  
to  
1997

2007...

