

Site Design Services Elementary School

HRP Associates, Inc. (HRP) provided site design services to Friar Associates, Inc. for the proposed construction of a municipality's new elementary school. The project consists of two phases: Phase 1 of the project is the construction of a new school behind an existing school; Phase 2 includes the demolition of the existing school and construction of a grass athletic field.

The overall project is expected to disturb 10.5 acres of the existing 12.5 acre lot owned by the municipality. HRP prepared the site layout, grading, drainage, utility coordination, and soil erosion and sediment control design for the project. The scope of services provided by HRP included the design to support the construction of a new roadway, parking areas, landscaped areas, bioretention areas, a stormwater management system, and associated site utilities. HRP performed a storm drainage analysis and modeling, including the design of underground detention and infiltration systems. HRP also specified stormwater treatment systems to treat the first inch of runoff from the site.

The project design was complicated by steep existing slopes, large existing wooded areas and the presence of shallow bedrock on site. HRP performed cut/fill analyses and a detailed grading plan to minimize excavation, rock-blasting, and retaining wall costs. HRP also designed underground detention and infiltration areas to match proposed peak runoff discharges with existing conditions for the 25-year storm event and analyzed the flow to the existing drainage network to prevent surcharging to the system.

FIRM

HRP Associates, Inc.
197 Scott Swamp Road
Farmington, CT 06032
(860) 674-9570

VALUE

\$100,000

-
- *Provided site layout and grading design services*
 - *Performed storm drainage analysis and designed underground stormwater infiltration and storage*
 - *Performed cut/fill analyses to minimize excavation and rock blasting costs. The project was complicated by steep existing slopes and the presence of shallow bedrock*