

Public Service of New Hampshire (PSNH) Power Street Substation Hudson, NH

Project Description:

Location

Hudson, NH

Owner

Northeast Utilities

Duration

2005

Construction Cost

\$4 million

AI provided environmental/civil engineering services for Power Street Switching Substation in Hudson, NH for the Public Service of New Hampshire (PSNH). The tasks included survey base-mapping, management/coordination of the subsurface investigations, and preparation of site plans and environmental permit documents for the installation of a new power substation in Hudson, New Hampshire. A pertinent feature of this assignment is the establishment of a gravel roadway up a steep embankment that included large cut and fill areas to complete a traversable access road to deliver equipment to the proposed 3 acre substation site. The completed project is on a 21.5 acre parcel that includes site grading, drainage, service road and utilities to the site and between the existing and new switch stations. The project is part of major transmission upgrades being undertaken by Northeast Utilities (NU) and its subsidiary, PSNH.



AI selected a NH certified geotechnical and wetland scientist and archeologist to visit the site to determine wetland location, prepare the NH HISS MAP (Geological Rock Formation) and determine if archeological activities were evident on the site. The design required preventing impacts to the existing wetland, zero stormwater discharge increase due to development and maintain water quality during construction and after project completion. AI contacted the NH Department of Natural Resources to determine if there were any protected species on the site. AI submitted permit applications to the NH DEP and applications to the Town of Hudson Planning & Zoning Commission.