

## Public Service of New Hampshire - New Thornton Substation Merrimack, NH

### Project Description:

**Location**

Merrimack, NH

**Owner**

Northeast Utilities

**Duration**

2008-Present

**Construction Cost**

TBD

AI Engineers, Inc. is performing site plan development and permitting for the construction of the New Thornton Substation in Merrimack, NH. The project includes boundary survey, topographical survey, wetland delineation, endangered species consultation, complete site and drainage design, drawings, details, specifications, storm water pollution prevention plan (SPPP), and subsurface exploration including soil borings and ledge probes as required to determine ledge profiles for estimation of ledge removal quantities. AI will also be providing comprehensive permitting/licensing services for construction of the Thornton Substation

AI developed roadway width, alignment and vertical profiles to insure adequate drivability for vehicles on access roads to the new substation. The road needs to accommodate light & medium size PSNH service vehicles and Municipal Fire Trucks. The drainage design for the driveway is being coordinated with the substation drainage system and side slope grading to ensure compliance with the storm water and water quality management plan. Location of the access roads intersected takes into consideration the sight line, with state highway design requirements

Since the substation is on the river side of railroad tracks, AI is analyzing the site features and requirements of the access road to determine the best location for crossing the railroad tracks considering sight line and railroad operation. The plans will be submitted to PAN AM Railroad for comments and the design will meet railroad track criteria for rail protection and roadway safety features for an at-grade track crossing. Any revisions requested by the railroad will be incorporated into the design upon concurrence of PSNH

