



Waverly Substation Civil/Site Engineering...

Client: Kenny Construction

Owner: PECO

HBK Engineering, LLC produced with the civil/site engineering design for a retrofit of an existing 1920's-era substation building that had been de-commissioned by PECO years earlier. Project involved designing oil containment system for transformer oil, and grading and drainage in the parking lot. A detailed risk analysis of potential scenarios for flooding of the substation basement was also conducted, and an emergency pumping system was designed to minimize potential losses.



Other project stats included:

- Application of Existing Utilities (O.U.C.)
- Final Design and Contract Plans
- Topographic Surveys
- Standard specifications and estimates
- Philadelphia Water Management Design Review and Approval
 - Industrial Waste unit (*environmental*)
 - Plumbing Department (*sewer connection*)
(*water connection*)

Although the extremely small site presented numerous constructability challenges, **HBK Engineering LLC** successfully completed the project in 2006.

