

existing water line (see Figure 2-1). The transmission line will be supported by mostly wooden poles approximately 80 feet tall. The location of the poles will be determined through detailed engineering and design. Pole locations will be designed to avoid impacts to the operation of the water line. The overhead interconnection line will connect to an existing substation in the Town of Lyme, owned and operated by National Grid. The Chaumont River will be crossed by an overhead wire (conductor) crossing.

2.5.6 Substation and Interconnection Facilities

The collector substation located on Swamp Road will step up the voltage of the electricity so that it can be reliably transmitted through the 9-mile overhead line to the transmission owner interconnection substation located on County Route 179 and interconnected with the 115 kV transmission line at the existing National Grid substation in Lyme. At the transmission owner interconnection substation, electricity delivered will be metered and a protection system put into place to ensure reliability and integrity of the infrastructure. SLW anticipates that structural elements at both substations will be installed on concrete foundations. In addition, SLW anticipates that both substations will consist of a graveled footprint area, a chain link perimeter fence, and an outdoor lighting system. The design of the transmission owner interconnection facilities to the 115 kV line will be finalized based on a facility study conducted by the

transmission line owner and the New York Independent System Operator (NYISO) in accordance with the NYISO's Federal Energy Regulatory Commission-approved Open Access Transmission Tariff. The Proposed Revised Project Layout in Figure 2-1 shows the general routing paths of the underground and overhead electrical lines as well as the proposed substation locations. Exhibit 2.5.3 illustrates the overall electrical collection system schematically.

