

2.0 DRAWINGS AND SITE INFORMATION

Segment 4a extends from the Singer Substation in Bridgeport to Sasco Creek in Fairfield, a distance of approximately 7 miles. It utilizes existing Connecticut Department of Transportation (ConnDOT) roadway right-of-way (ROW), municipal road ROW, and Metro North Railroad/New Haven Line ROW along the entire route with the exception of those vault locations to be located outside the ROW's on private property. The ConnDOT roads include Fairfield Avenue (Route 130) in Bridgeport and Boston Post Road in Fairfield (U.S. Rte. 1 and State Rte. 130). CL&P performed and reported on extensive research of environmental conditions and cultural resources as part of the Docket No. 272 application to the Council. The following provides descriptive information regarding the existing conditions at the site and the modifications that will take place along Segment 4a as part of the Project. This information is shown graphically on the drawings described below.

2.1 KEY MAP

The location of Segment 4a is shown on the Key Map in Figure 2.1.

2.2 PLAN DRAWINGS

In addition to the key map, this D&M Plan contains drawings showing the Plan and Profile for the transmission line using a scale of 1" = 30'. The Plan and Profile drawings are located under separate cover noted by municipal name and stationing in Volume 2. These drawings depict the engineering design for installation of the duct bank, location of existing underground utilities, right-of-way boundary, adjacent property owners, public lands, yet-to-be-acquired ROW easements for vaults, vault locations and access points other than ConnDOT roadways.

2.3 LAND OWNERSHIP

The 345-kV cable system to be installed in segment 4a is primarily situated within ROW owned either by the City of Bridgeport, the Town of Fairfield, or the Connecticut Department of Transportation (ConnDOT). In addition, twenty-three pairs of splice vaults will be located in Bridgeport and Fairfield. The location of the 23 pairs of splice vaults will be as follows:

- Eleven pairs will be situated outside the ConnDOT or municipal ROW on private property;
- Six pairs will be within the ConnDOT ROW inside the roadway;
- One pair will be within the ConnDOT ROW but outside the roadway;
- Two pairs will be located within the municipal ROW; and,
- Three pairs will be located partially within the ConnDOT or municipal ROW and partially on private property.

A list of private property owners identified on the Plan drawings in Volume 2 from whom temporary and permanent easements will have to be acquired is provided in Table 2-1 below. Figure 2-2 depicts the typical temporary and permanent easement dimensional layout needed for splice-vault locations. This typical layout incorporates approximately 10,000 square feet of permanent easement area and 6,500 square feet of temporary easement area to be acquired. Site specific conditions, including but not limited to rock, existing utilities, available workspace, and overhead obstructions, will dictate the actual dimensions of the temporary and permanent easements at each location.