

Lackawanna Cut Off, Morris and Sussex Counties, NJ



GTS Consultants provided topographic survey and right of way mapping for reactivation of passenger rail service on the Lackawanna Cut Off from Netcong, NJ to Scranton PA. The first phase of the project extended from the existing NJ Transit tracks in Netcong along eight miles of abandoned rail line to the vicinity of Roseville Road and Route 206 in Andover, NJ. GTS provided aerial mapping control, an eight mile survey baseline, detailed survey at various road crossings, wetland location survey, and track bed cross-sections to control construction quantities throughout the 8-mile first phase.

Survey included detailed clearance measurements from existing roadway overpass structures, detailed interior cross-sections of an existing 1000-foot long tunnel, and existing grade crossing topography.



The Lackawanna Cut Off was originally constructed between 1908 and 1911 and contains cuts of up to 130 feet and fills of up to 110 feet. The total length in New Jersey is 28.45 miles and has a maximum grade of 0.6 percent. When it was constructed, the cut off eliminated over eleven miles of travel distance and 1560 degrees of curved track (the equivalent of four complete circles). Many of the existing overpasses and railroad bridges are original construction.