



Orange & Rockland



Tuxedo Park – 4kV conversion

May 20, 2019

Agenda

- Overview
- Existing Conditions
- Proposed Upgrade
- Construction Impacts
- Example Photographs
- Example Installation

Overview

- Tuxedo Park serves a total of about 418 customers
- This project area serves 270 residential customers, the Tuxedo Park School, Tuxedo Park Country Club, Tuxedo Park DPW and Sewer Plant, and a Verizon Communication Switching Station
- Load growth from customer service upgrades
- First of four major projects to upgrade the main line overhead distribution system and increase reliability

Existing Conditions

- Original system
- Majority of the Village is fed by 2.4kV open wire overhead primary
- Aging infrastructure and overloaded conductors
- Susceptible to tree outages
- Low voltage conditions during peak periods

Proposed Upgrade

- Upgrade to 13.2kV Hendrix overhead distribution
- Install step down transformers to service side spurs
- Replacement of approximately 15,000 feet of existing overhead conductor with higher capacity mainline spacer cable (Hendrix)
- Installation of 7 MOABs and 2 GOABs to assist is isolation and restoration

Construction Impact

- Material Storage

- 94 poles
- 5 Reels Hendrix cable
- Secondary conductor reels
- Pole mounted transformers and step banks
- Cross-arms
- Connectors, lighting arrestors, bushings, brackets, etc.
- Dumpsters

- Tree Trimming

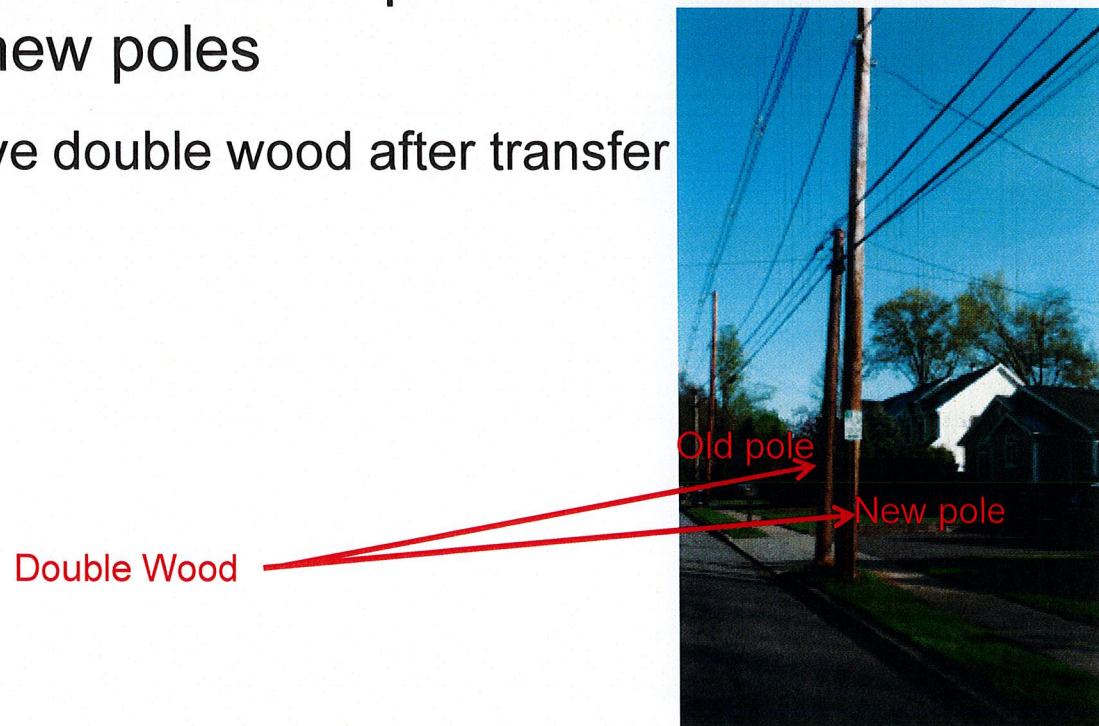
- Majority of new poles are 45' or 50' to meet construction standards

Roads affected

- Continental Drive
- We-Wah Road
- Continental Road
- West Lake Road
- Clubhouse Road
- Turtle Point Road
- Lake Road
- Tower Hill Road
- Laurel Road
- Circuit Road
- Lorillard Road
- Ontio Road
- Summit Road
- Mountain Farm Road

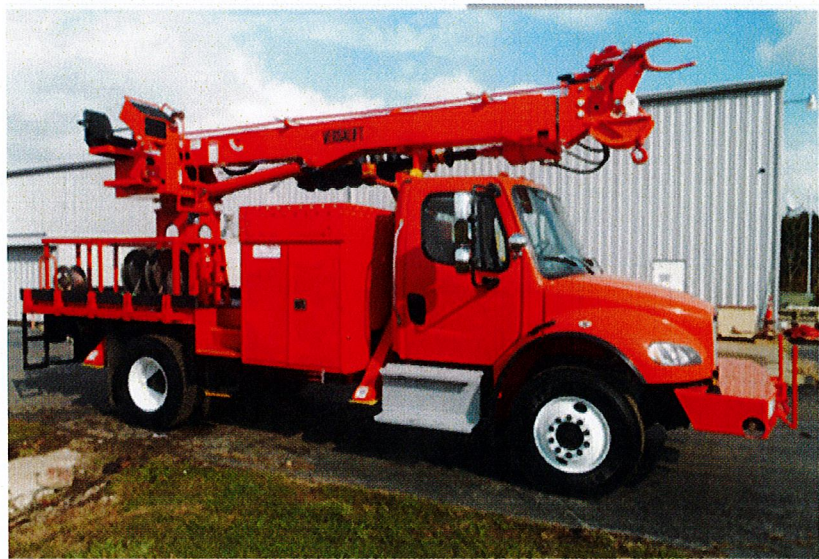
Construction Impact

- Approximately 6-9 month duration
- Double wood condition where telephone and cable have to transfer facilities to new poles
 - Contractor will remove double wood after transfer



Construction Impacts

- Bucket Trucks
- Digger Derricks
- Movement of equipment and materials



Example Photographs



Pole Delivery



Pole Storage



Pole transport example 1



Pole transport example 2

Example Installation

