

CENTRAL VIRGINIA TRANSMISSION RELIABILITY PROJECT

JOSHUA FALLS - GLADSTONE

PROJECT CONSTRUCTION INFORMATION AND TIMELINE

Appalachian Power representatives plan to upgrade the local electric transmission grid in Virginia. The Central Virginia Transmission Reliability Project provides a new electrical source for the region, increases reliability to customers and supports the retirement of aging equipment. The project includes several phases throughout the next few years.

Construction for the Joshua Falls - Gladstone phase is expected to begin in January 2023 and conclude Spring 2024.

PROJECT COMPONENTS & BENEFITS

The Joshua Falls - Gladstone phase includes:

- Building about 15 miles of 138-kilovolt transmission line
- Expanding Appalachian Power's Amherst and Riverville substations
- Upgrading Appalachian Power's Boxwood Substation
- Expanding Central Virginia Electrical Cooperative's Gladstone Substation

These improvements will:

- Reduce the likelihood of power outages
- Increase the electric reliability in the area
- Strengthen the local power grid

TRAFFIC CONTROL

Appalachian Power representatives work to ensure public safety and minimize inconveniences during construction. Crews plan to:

- Close road lanes as needed
- Use flaggers and signs to aid traffic flow on streets during the day
- Open road lanes at night if safety allows

SAFETY TIPS

- Keep your distance from construction workers and equipment
- Stay outside of temporary safety barriers
- Be aware of uneven or slippery surfaces
- Slow down when driving in the area and make sure your headlights are on
- Watch for posted signs, road closures and traffic detours
- Follow flaggers' instructions

WHAT TO EXPECT DURING CONSTRUCTION

Construction Corridor Development: January - August 2023

Crews prepare for construction by:

- Marking utilities and pole locations along the power line route using stakes and flags
- Removing fences, trees, and other obstructions from the right-of-way area
- Installing fences around the construction area for public safety and to control sediment
- Removing parts of sidewalks around various pole locations
- Removing soil to make room for the larger bases of the new poles

As part of this process, crews clear the right-of-way:

- Forestry crews prepare for transmission line construction by clearing trees and woody-stemmed vegetation from the right-of-way.
- Clearing allows for the safe construction, operation and maintenance of the line and ensures reliable electric service for area customers.
- The North American Electric Reliability Corporation (NERC) set standards that requires utilities to establish minimum clearance distances between transmission lines and the nearest vegetation. Non-compliance can lead to significant community-wide power outages.
- Crews may clear identified danger trees outside the right-of-way as allowed per the easement language.
- When possible and practical, crews use selective clearing practices to retain low-growth shrubs and bushes.

Pole Installation: April - December 2023

At most pole locations, crews:

- Assemble the new pole and place it near the installation area
- Install and stabilize the foundation of the new pole
- Install and secure the new pole

New Wire Installation: October 2023 - March 2024

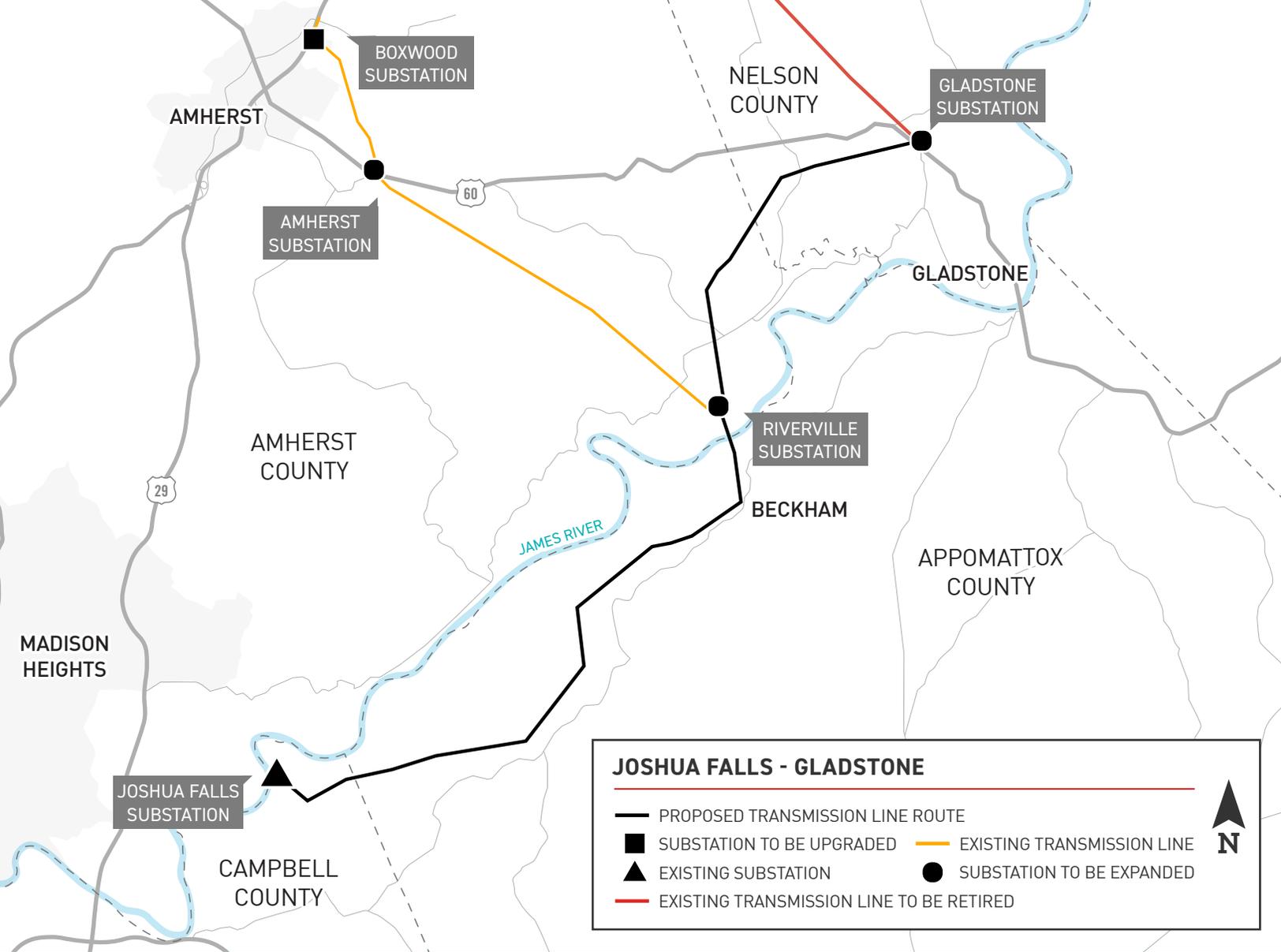
Crews install wires on the steel poles along the power line route.

Facilities Placed In-Service: May 2024

Crews energize the equipment after finishing pole and wire installations.

Post Construction & Site Restoration: Throughout 2024

Appalachian Power crews follow construction crews throughout the project to restore properties to as close to their pre-construction condition as possible. Activities include restoring sidewalks, reseeding properties, etc. Right-of-way agents also work with landowners to address any property damages.



Example of Temporary Fencing to Control Sediment Movement



Example of Pole Assembly



Example of Wire Installation

WE VALUE YOUR INPUT.
PLEASE SEND COMMENTS AND QUESTIONS TO:
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