

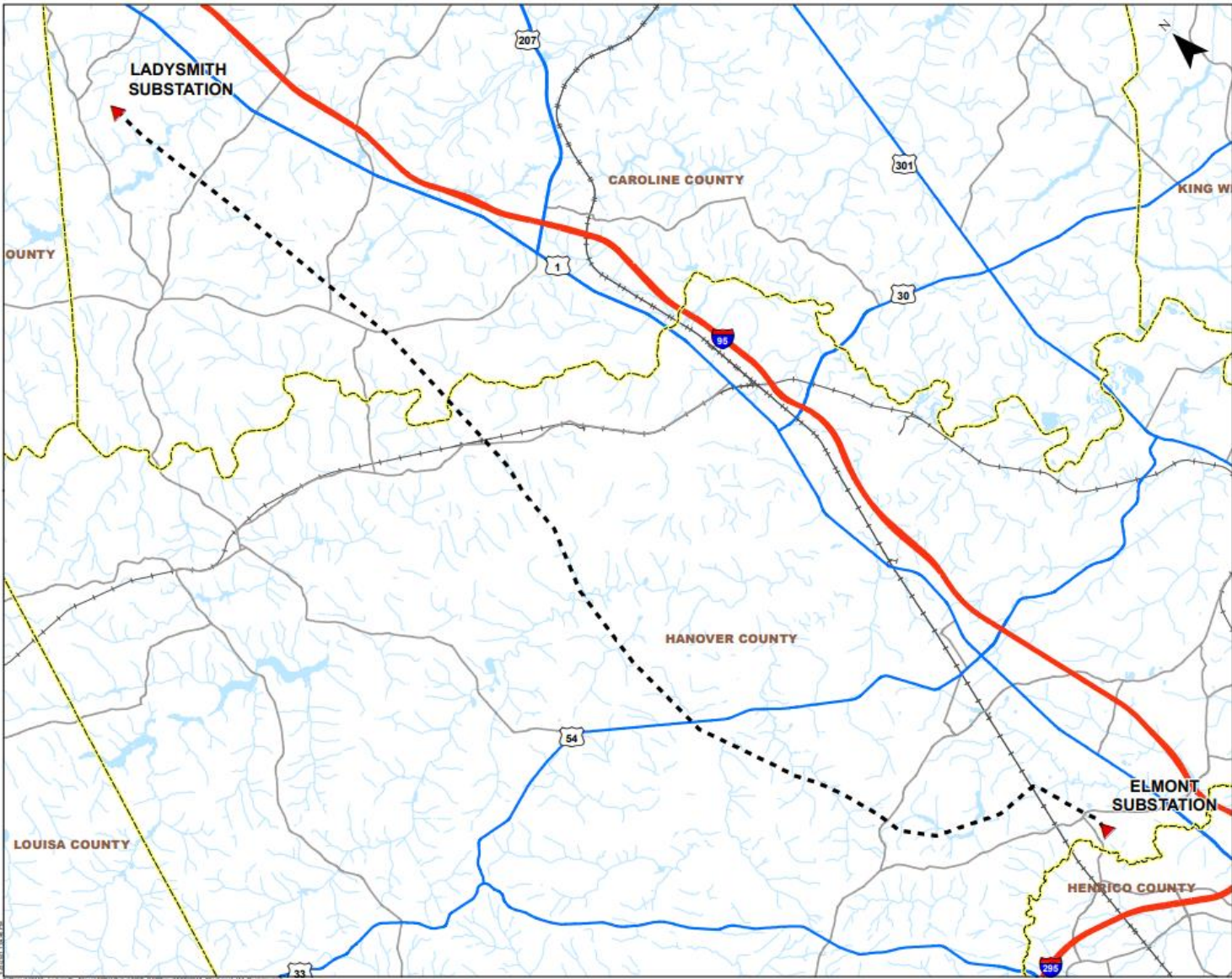
**Ladysmith-Elmont**  
*500 kV Transmission Line*  
*Rebuild Project*

**March 2021**

# Outline

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- Project Need
- Scope of Project
- Community Engagement
- Timeline



**ATTACHMENT I.A.1  
PROJECT OVERVIEW MAP**

Line 574 Elmont - Ladysmith  
500 kV Transmission Line Rebuild

Hanover and Caroline County, Virginia

Owner/ Applicant:  
Dominion Energy Virginia **DRAFT**

C2 Env Project: 0143      Prepared By: GCF      Date: 01/18/21

Scale is 1 IN = 2 MI when printed at original size of 11x17

0 1 2 4 Miles

**SITE DATA**

- Existing Line #574 Centerline
- ▲ Existing Substation
- ▬ Limited Access Highways
- ▬ US and VA Primary Highways
- ▬ Local and Main Roads
- ▬ Railroad
- ▬ County Boundary
- ▬ Stream/River
- ▬ NHD Waterbody

Notes:

1. Basemap from ESRI Topographic Map
2. Project centerline provided by Dominion Energy
3. Roads and railroads from VGIN
4. Flowlines and waterbodies from USGS National Hydrography Dataset



# Reliability Concerns & Drivers

Approximately 26.2 miles of 500 kilovolt (kV) transmission line between Ladysmith and Elmont substations have reached the end of their service life.

- Structures were originally installed in the 1960s
- Continued operation risks negatively impacting service reliability





*Representative pictures of aging structures.*

# Proposed Solution

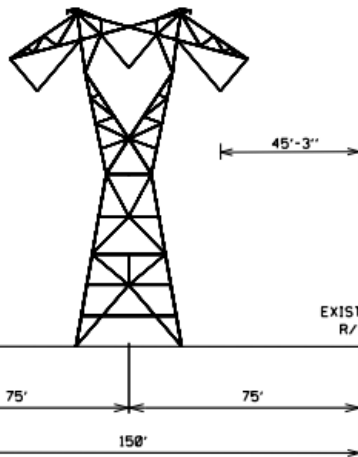
In order to maintain structural integrity and reliability, Dominion Energy is proposing to rebuild the transmission lines in an existing corridor through a portion of Caroline and Hanover counties.

- Proposed project is located entirely within existing right of way
  - Partially collocated with existing 115 kV line – 3.5 miles
- Replaces lattice weathering steel with galvanized steel structures
- Rebuilding to current industry standards; future needs
  - Height increases vary along transmission line
- Target completion date: **December 2025**

# Typical Right-Of-Way Cross-Section

STRUCTURE #574/1 - 19

EXISTING  
500KV CIRCUIT  
(LINE #574)



EXISTING CONFIGURATION

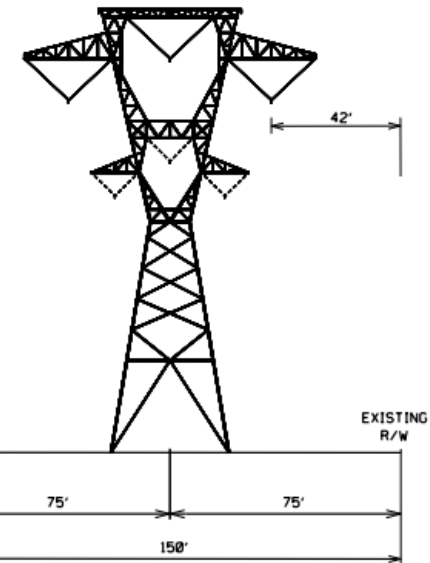
TYPICAL RIGHT OF WAY LOOKING TOWARD LADYSMITH

STRUCTURE #574/1 - 19

PRELIMINARY

PROPOSED  
500KV CIRCUIT  
(LINE #574)

FUTURE  
230KV CIRCUIT



PROPOSED CONFIGURATION

TYPICAL RIGHT OF WAY LOOKING TOWARD LADYSMITH

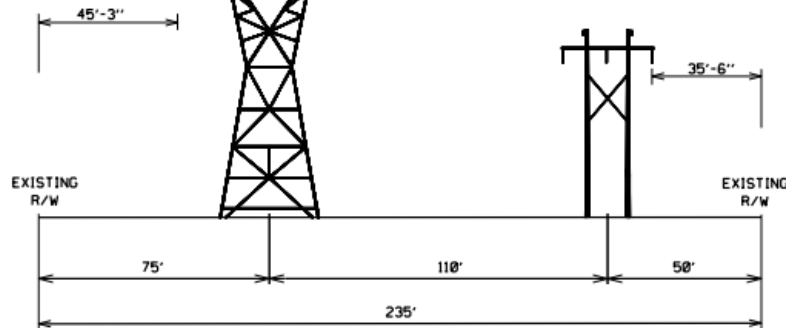
NOTE: Information contained on drawing is to be considered preliminary in nature and subject to change based on final design.

# Typical Right-Of-Way Cross-Section

STRUCTURE #574/19 - 37

EXISTING  
500KV CIRCUIT  
(LINE #574)

EXISTING  
115KV CIRCUIT  
(LINE #59)



EXISTING CONFIGURATION

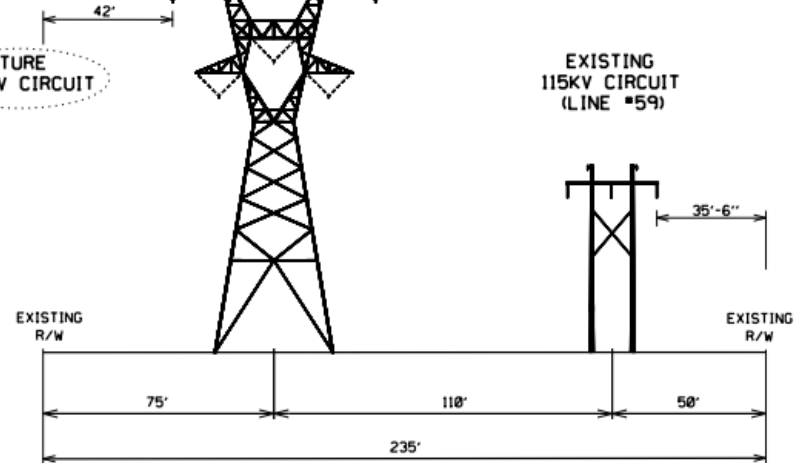
TYPICAL RIGHT OF WAY LOOKING TOWARD LADYSMITH

STRUCTURE #574/19 - 37

PROPOSED  
500KV CIRCUIT  
(LINE #574)

FUTURE  
230KV CIRCUIT

EXISTING  
115KV CIRCUIT  
(LINE #59)



PROPOSED CONFIGURATION

TYPICAL RIGHT OF WAY LOOKING TOWARD LADYSMITH

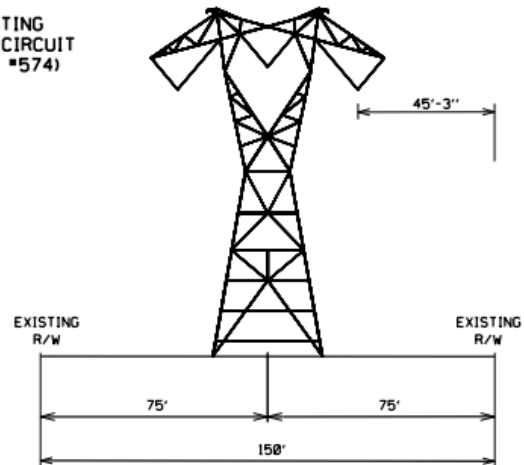
NOTE: Information contained on drawing is to be considered preliminary in nature and subject to change based on final design.



# Typical Right-Of-Way Cross-Section

STRUCTURE #574/37 - 124

EXISTING  
500KV CIRCUIT  
(LINE #574)



EXISTING CONFIGURATION

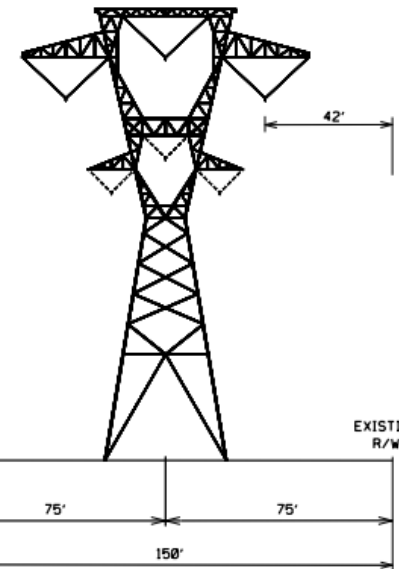
TYPICAL RIGHT OF WAY LOOKING TOWARD LADYSMITH

PRELIMINARY

STRUCTURE #574/37 - 124

PROPOSED  
500KV CIRCUIT  
(LINE #574)

FUTURE  
230KV CIRCUIT

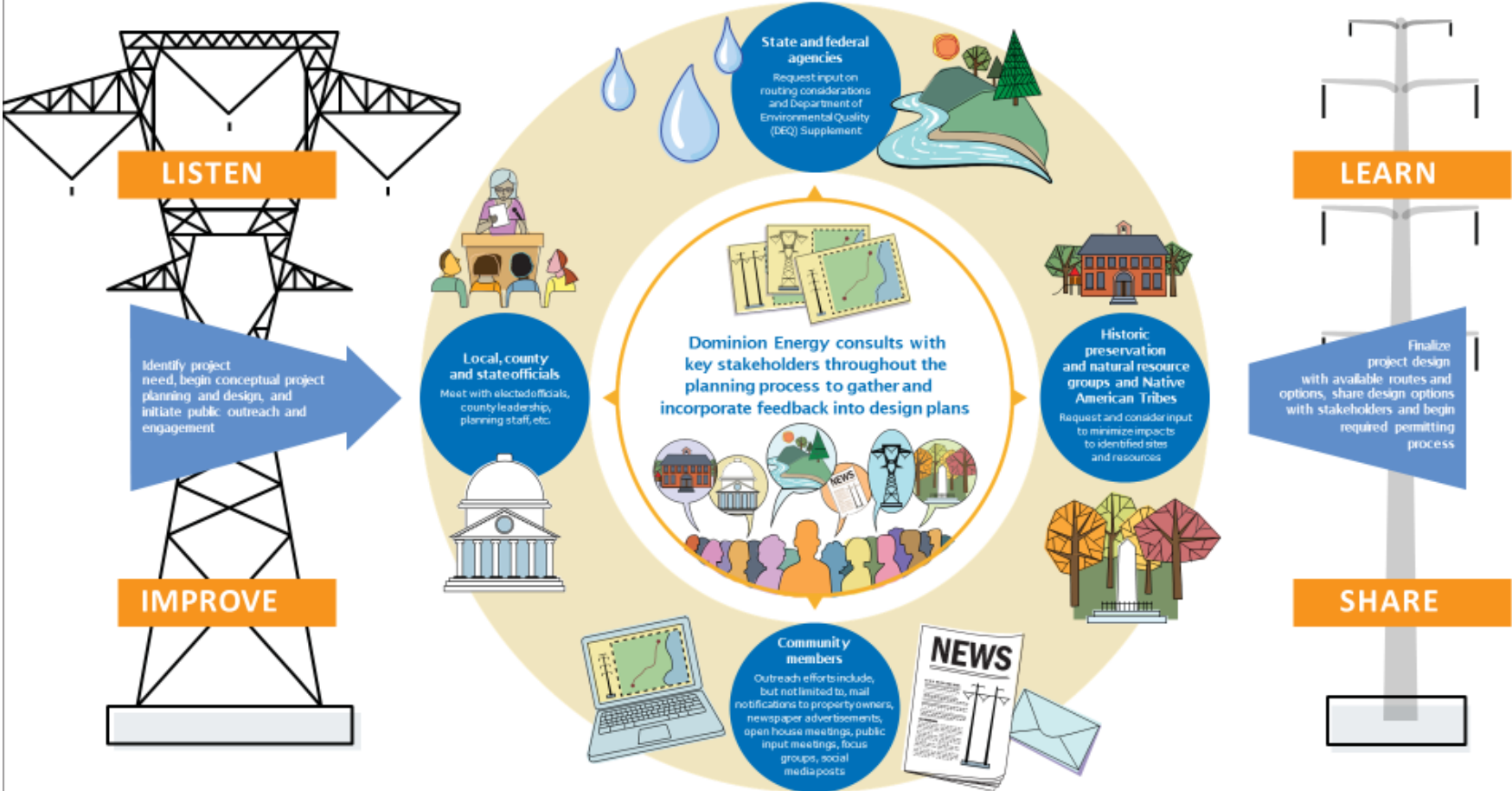


PROPOSED CONFIGURATION

TYPICAL RIGHT OF WAY LOOKING TOWARD LADYSMITH

NOTE: Information contained on drawing is to be considered preliminary in nature and subject to change based on final design.

# Electric Transmission Line Planning and Public Engagement Process



# Electric Transmission Line SCC Application Review Process

The Virginia State Corporation Commission (SCC) has regulatory authority over all energy providers in Virginia and requires certification for all transmission lines out of the ordinary course of doing business or are at or above 138 kilovolts (kV). Among other responsibilities, the

SCC validates the need for a proposed line and approves the route and structures. In reviewing a proposed project, the SCC must consider whether potential impacts on scenic assets, historic districts and the environment have been reasonably minimized.



**Domion Energy notifies county and city officials of intent to file**  
Required pursuant Code of Virginia § 15.2-2202

**Domion Energy submits application to SCC**  
Includes full project details, including need, cost, routing options, potential impacts, etc.

**Domion Energy notifies electric cooperatives**



**SCC posts application for public review**  
Available at [scc.virginia.gov](http://scc.virginia.gov)

**SCC issues procedural order**  
Case schedule is set; SCC invites public comments and formal participation in the case as a respondent.

**Department of Environmental Quality (DEQ) issues first report**  
Due within 60 days of application filing



**SCC conducts public hearings**  
Held in selected areas near the project

**DEQ issues coordinated comments**  
Summary of recommendations from multiple state resource agencies to minimize impacts and for compliance with legal requirements



**Public comment period opens**  
Submitted online or via mail

**Discovery begins**  
SCC Staff starts its review; SCC Staff, Dominion Energy and respondents may serve discovery

**Interested parties can join case as respondents**  
Formal mechanism to join proceedings

**Domion Energy issues public notice**  
Notifies local officials, impacted landowners and the public



**Public comment period closes**

**Respondents submit testimony**

**SCC Staff submits its report about the project**

**Domion Energy submits rebuttal testimony**  
In response to DEQ summary, staff report and respondent testimony

**SCC conducts formal evidentiary hearing**  
Testimony submitted and subject to cross examination by SCC Staff, Dominion Energy and respondents

**SCC hearing examiner issues report of recommendation**

**Participants issue response**  
SCC Staff, Dominion Energy and respondents comment to hearing examiner's report

- Domion Energy's Responsibility
- Public Involvement Touchpoints
- Procedural Steps
- Optional Step Determined by SCC

Process could take as little as eight months to complete if uncontested, with more complex proceedings ranging from 12-24 months from start to finish



**Domion Energy begins construction of facilities**

**Domion Energy pursues additional permits as needed**  
Local permits, U.S. Army Corps of Engineers, Federal Aviation Administration (FAA), etc.

**SCC issues final order**  
If approved, SCC issues a Certificate of Public Convenience and Necessity (CPCN) authorizing Dominion Energy to construct and operate the facilities

# Next Steps

<b>March 2021</b>	<ul style="list-style-type: none"><li>• Meet with local elected officials</li><li>• Project website launched; Dedicated email/phone open</li><li>• Solicit input from cultural advocacy groups</li></ul>
<b>March 30, 2021</b>	<ul style="list-style-type: none"><li>• Virtual open house</li></ul>
<b>Apr. 2020</b>	<ul style="list-style-type: none"><li>• Community outreach continues</li></ul>
<b>Late April 2021</b>	<ul style="list-style-type: none"><li>• File Application with Virginia State Corporation Commission (SCC)</li></ul>
<b>Fall 2022</b>	<ul style="list-style-type: none"><li>• Requested date for SCC approval</li></ul>



# Questions/Comments

**Dedicated Project Page:  
DominionEnergy.com/ladysmith**

**888-291-0190  
Powerline@dominionenergy.com**