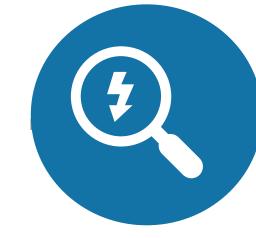
OVERWIEW

The Mankato-Mississippi River Transmission Project will improve reliability, deliver low-cost renewable energy and provide other regional benefits by building new, more resilient 'backbone' infrastructure to serve customers.

We are proposing:

- About 120 miles of new and upgraded 345 kilovolt (kV) transmission infrastructure between the Wilmarth Substation located near Mankato and and at the Mississippi River near Kellogg.
- About 20 miles of new 161 kV transmission infrastructure between the North Rochester Substation near Pine Island and an existing transmission line northeast of Rochester.





2022

Project identified by MISO



2023

- Preliminary route development process
- Public and stakeholder engagement
- Preliminary engineering
- Submit Certificate
 of Need and
 Route Permit
 Application



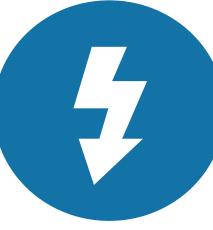
2024-2026

- Minnesota
 permitting review
 (including public
 engagement)
- Detailed engineering
- Negotiate with landowners to purchase easements
- Obtain other required permits
- Continued public and stakeholder engagement



2026-2028

Construction



2028

- In-service
- Restoration









IMPROVING TRANSMISSION INFRASTRUCTURE

IN MINNESOTA AND THE UPPER MIDWEST

The Mankato-Mississippi River Transmission Project is one of several long-range transmission projects identified by MISO, the regional grid operator, to support energy needs in Minnesota and throughout the region.

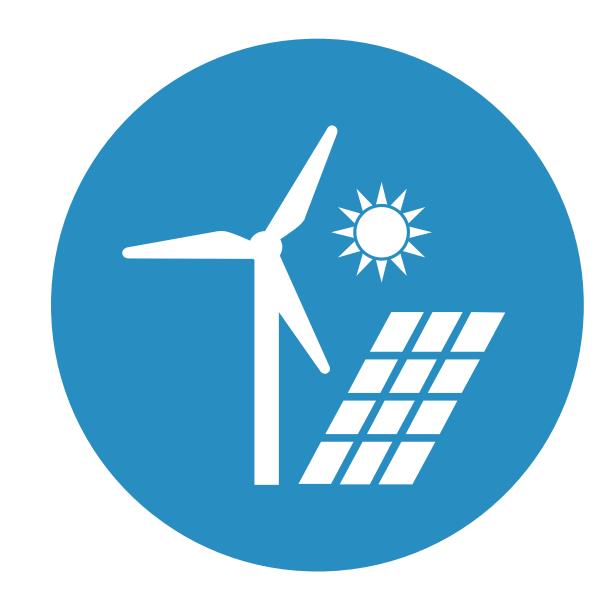
Transmission line projects, like this one, strengthen the grid by:



Improving reliability and system resilience in the Upper Midwest.



Creating greater access to low-cost renewable energy.



Adding transmission capacity to accommodate increasing amounts of renewable energy as aging traditional resources retire.



Supporting regional economic growth through new energy infrastructure.

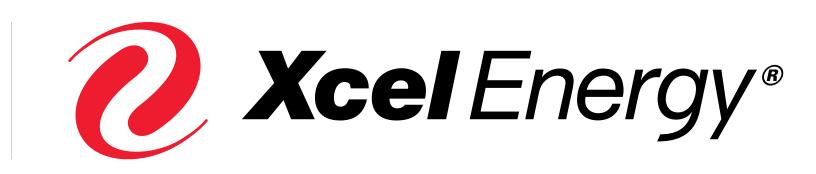


Upgrading and updating infrastructure facilitates more jobs and increases tax revenue for communities in southern Minnesota.



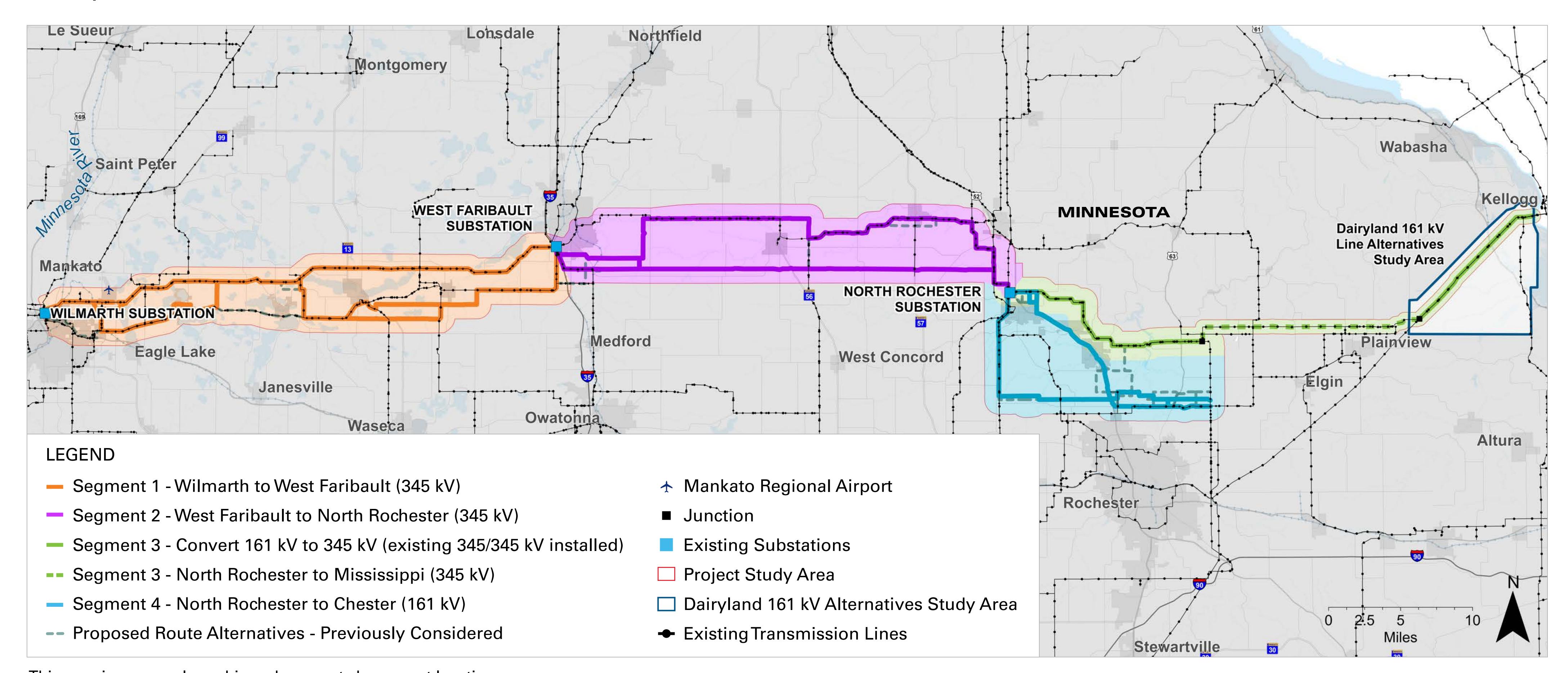






FOUR SEGMENTS, ONE PROJECT

This project has **four segments that include a combination of new transmission lines and upgrades to existing infrastructure**. Where feasible, we've worked to identify opportunities to locate lines in existing utility or transportation corridors.





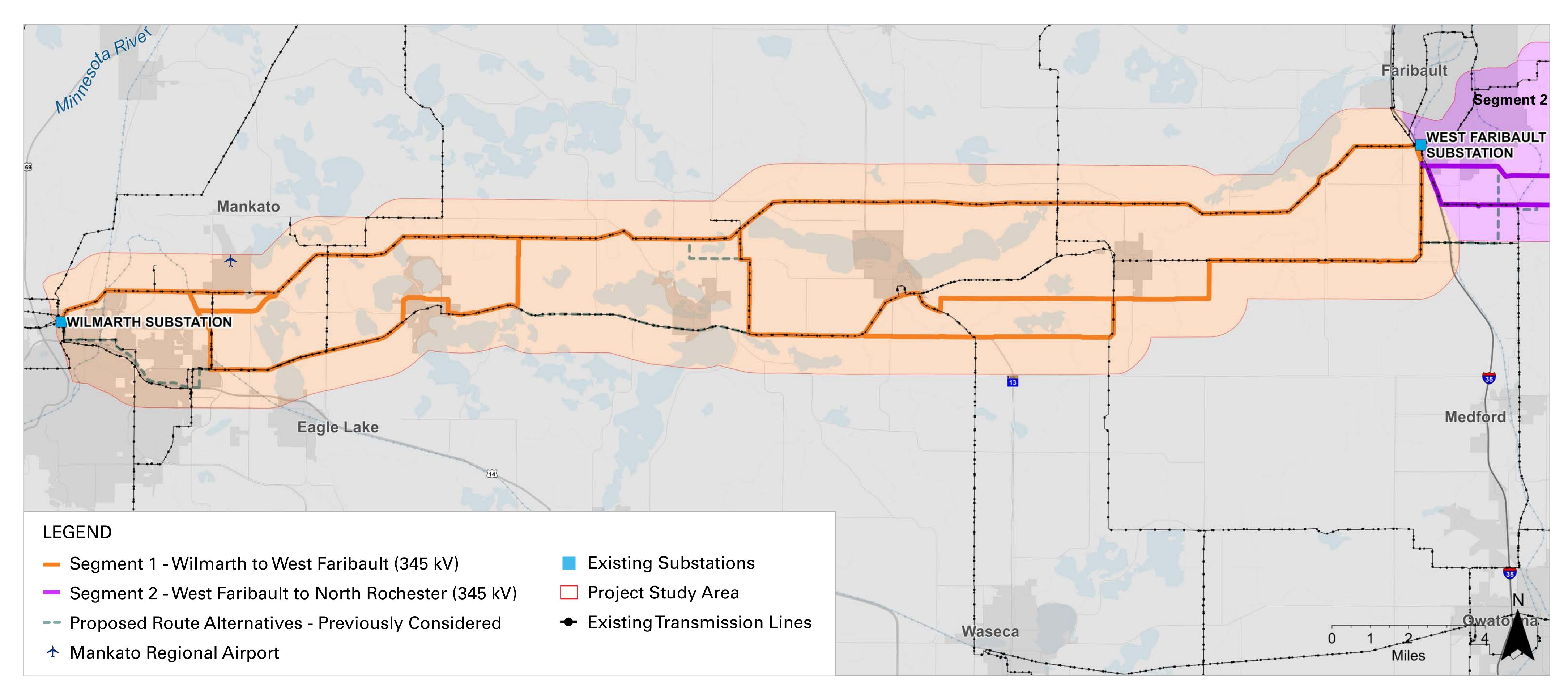






SEGIMENT1: MANKATO TO FARIBAULT

Segment 1: Build about 40 miles of 345 kV transmission lines in existing transmission corridors between the Wilmarth Substation near Mankato and the West Faribault Substation in Faribault.





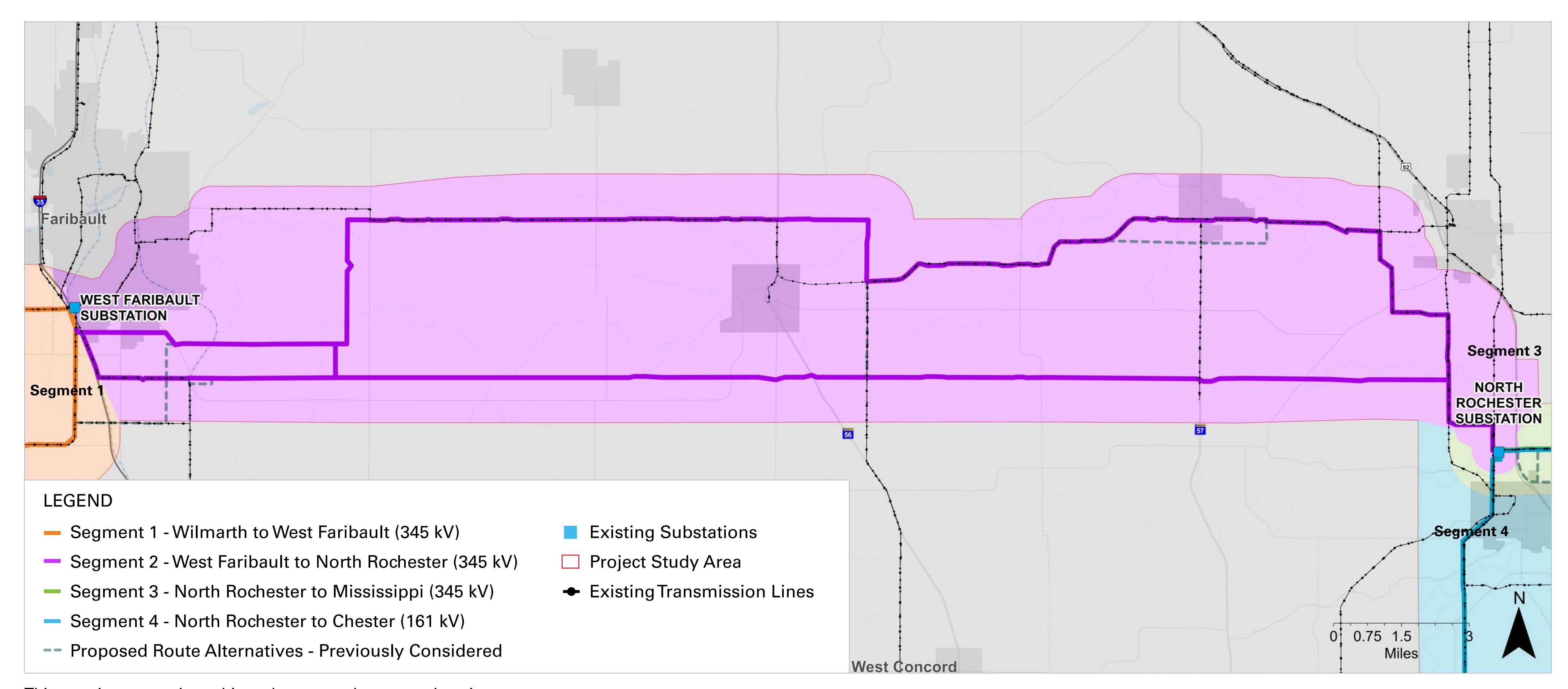






SEGMENT 2: FARIBAULT TO PINE ISLAND

Segment 2: Build about 35-40 miles of 345 kV transmission lines in either a new corridor and/or in existing transmission corridors from near the West Faribault Substation to the North Rochester Substation near Pine Island.





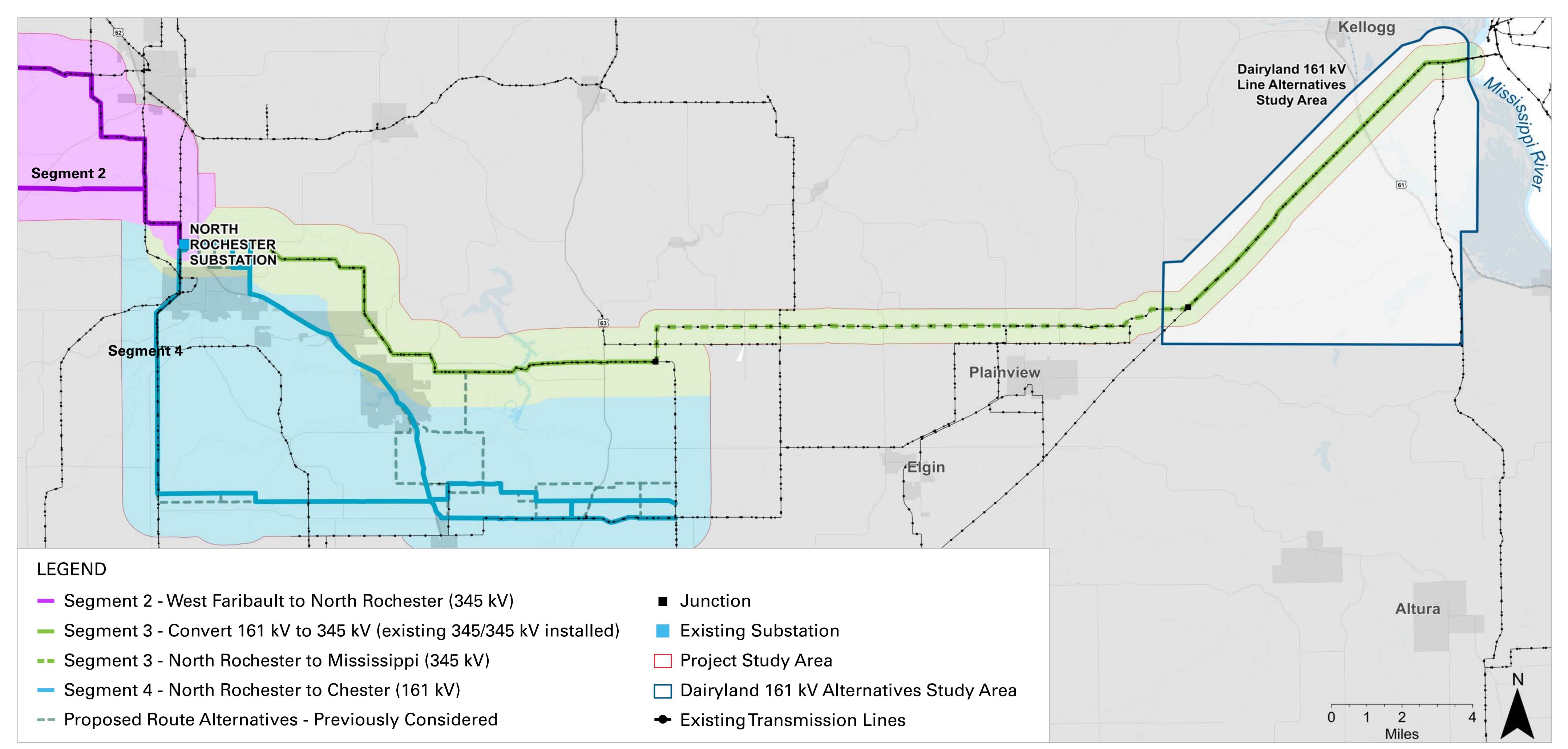






SEGMENT 3: PINE ISLAND TO KELLOGG

Segment 3: Convert about 26 miles of 161 kV line to 345 kV line and install about 16 miles of new 345 kV line on existing structures between the North Rochester Substation and the Mississippi River.





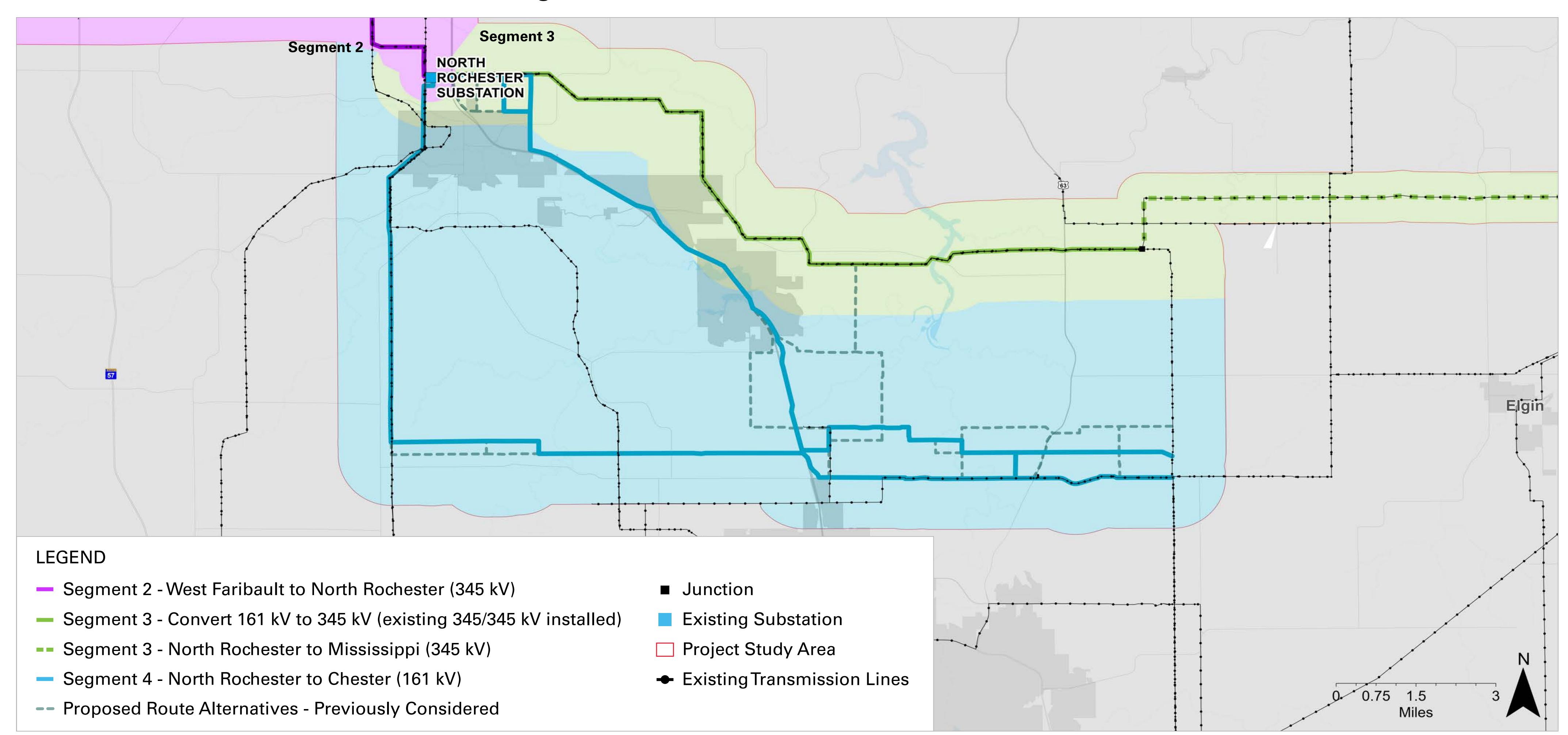






SEGMENT 4: ROCHESTER CONNECTOR

Segment 4: Build about 20 miles of a new single-circuit 161 kV line from the North Rochester Substation to an existing transmission line northeast of Rochester.











REGULATORY PROCESS

We expect to apply for a combined Certificate of Need and Route Permit with the Minnesota Public Utilities Commission (PUC) in late 2023.



Certificate of Need application:

Describes the project need and the issues it will solve.



Route Permit application:

Includes at least two feasible proposed routes and the factors evaluated in developing those routes. The Minnesota PUC determines the final route following a full review process.



After submitting these applications, the Minnesota review process will begin:

- Public meetings and hearings will be held with public engagement opportunities.
- Written comments can also be submitted to the PUC.

Following this process, the PUC will decide on the Certificate of Need and Route Permit expected in 2024 or 2025. The PUC may select one option or a combination of the route options identified.







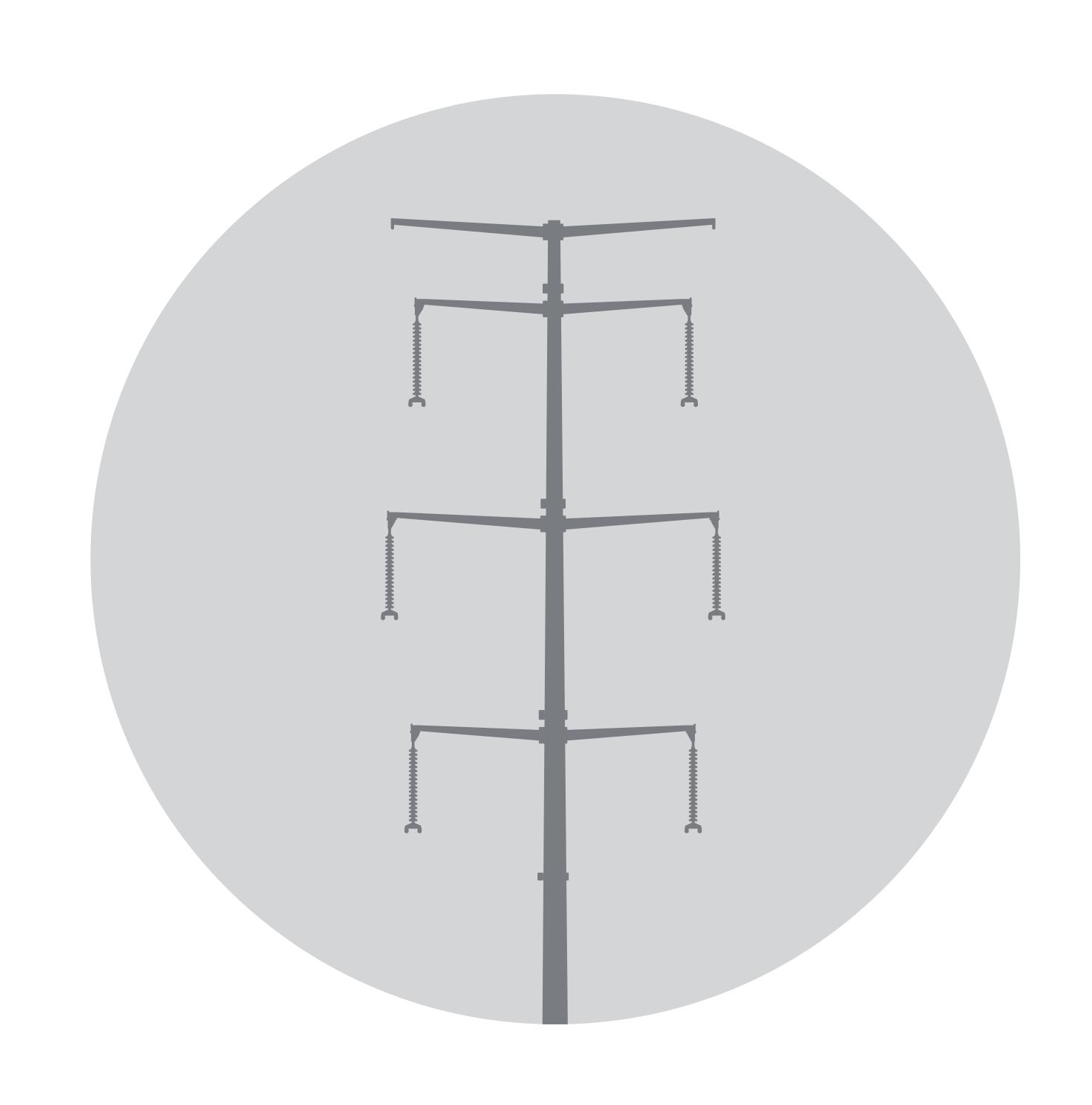


TRANSMISSION LINE INFRASTRUCTURE

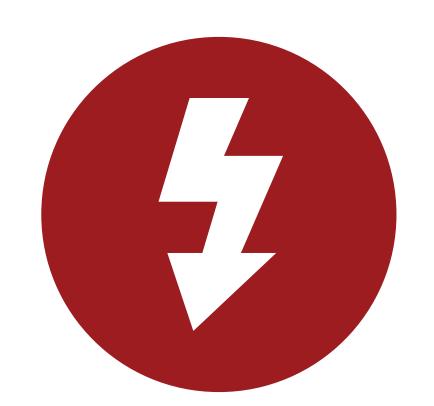
ANTICIPATED DESIGN*:

- Steel transmission structures
- Single pole style for most structures
- Typical pole height is 100-150 feet (depending on the terrain)
- Typical Right-of-Way is 150-foot-wide for a 345 kV line
- Typical Right-of-Way is 80-100-foot-wide for a 161 kV line
- 800-1,200 feet between structures for 345 kV segments
- 300-500 feet between structures for the 161 kV segments

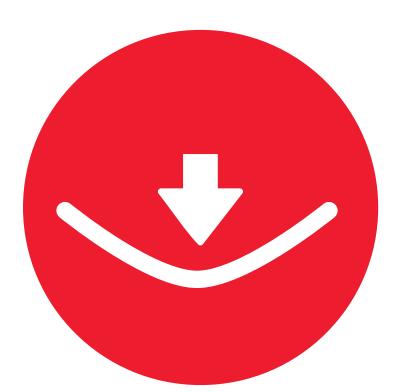




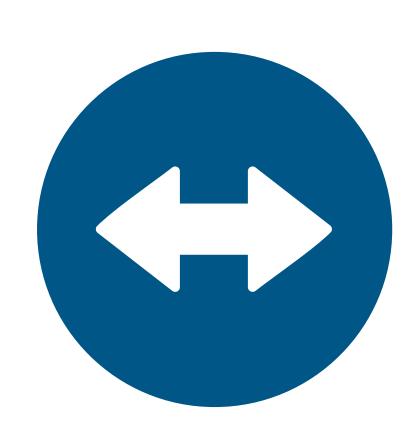
TRANSMISSION LINE STRUCTURES VARY IN HEIGHT BASED ON FACTORS LIKE:



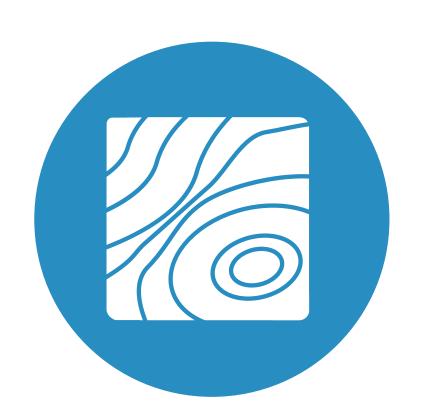
Voltage



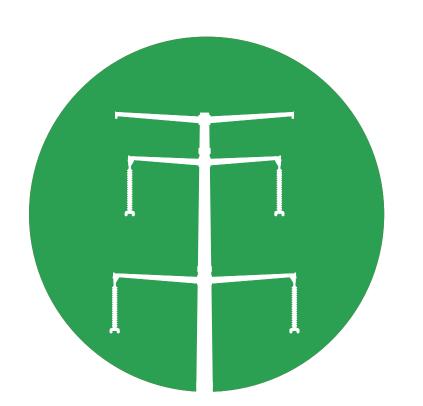
Sag of the conductor



Distance between structures



Terrain



Structure types



Minimum clearance prescribed by National Electric Safety Code and Company standards









WORKING WITH LANDOWNERS

EASEMENTS are a permanent right authorizing a utility to use the Right-of-Way (ROW) to build and maintain a transmission line. Landowners are paid a fair market value for the easement and can continue to use the land if the use doesn't interfere with the operation and maintenance of the transmission line.

RIGHTS-OF-WAY are the actual land areas acquired for a specific purpose such as a transmission line, roadway or other infrastructure.

LAND USES IN THE EASEMENT AREA

Agriculture

After initial construction, agricultural activities can continue outside the small area with the transmission structures.

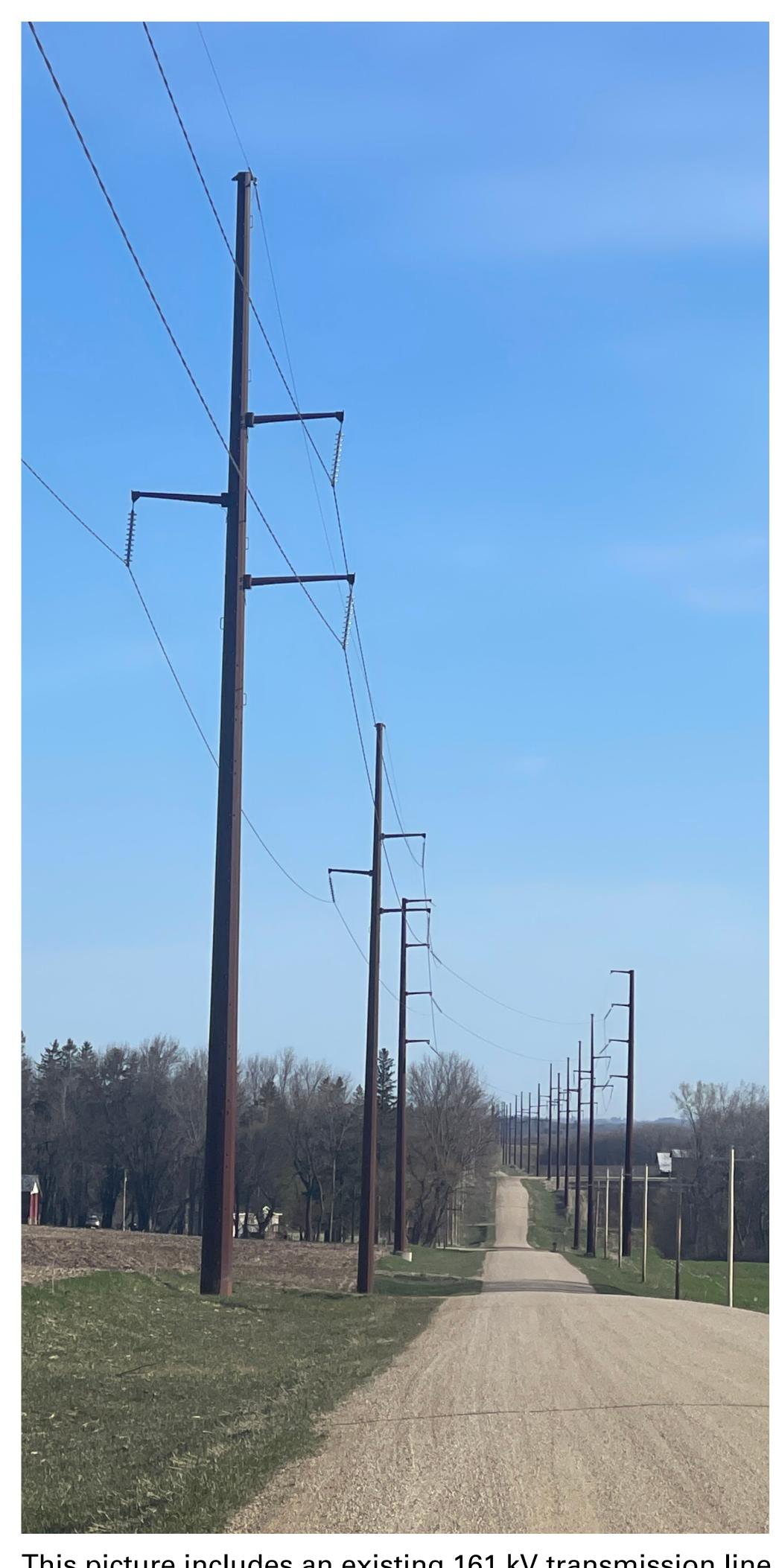
Vegetation Management

Trees growing near power lines can be a safety hazard and can contribute to electric service interruptions nationwide. Some areas will require tree removal and pruning.

Our goal is to provide safe, reliable electric service while also taking care of one of your community's valuable natural resources.

Buildings and Structures

Generally, buildings or other structures are not allowed in the ROW/easement for transmission lines due to clearance and safety concerns. Landowners can only build structures in the easement area after receiving written approval from the utility.



This picture includes an existing 161 kV transmission line.







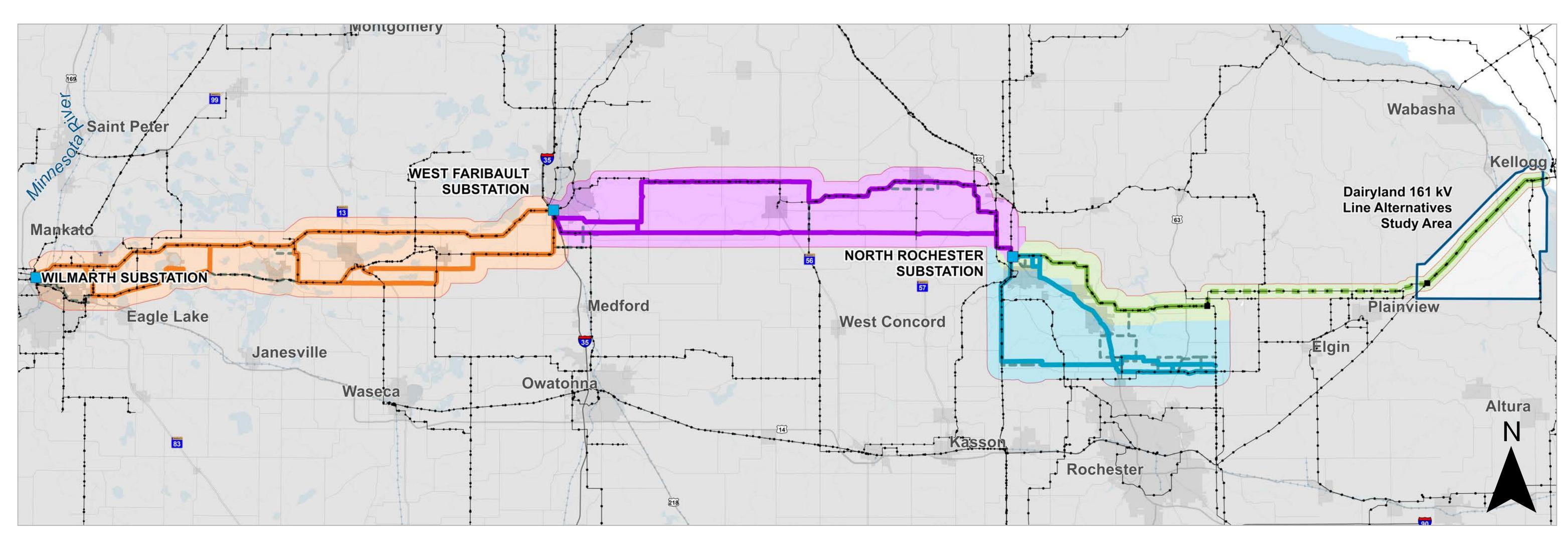


MANKATOMISSISSIPPI RIVER PROJECT PARTNERS

Multiple utility partners will develop this new infrastructure to serve southern Minnesota and western Wisconsin, including several companies who helped build the CapX2020 transmission projects.

DEVELOPMENT DETAILS

- Xcel Energy will develop and own the infrastructure between the Wilmarth Substation near Mankato and the North Rochester Substation near Pine Island (Segments 11 and 22).
- All project partners will participate in the additional 345 kV infrastructure from the North Rochester Substation to the Mississippi River (Segment 3) and the 161 kV line from Pine Island to the Rochester area (Segment 4).
- Segments 1 2 3 and 4 will be submitted in one combined Certificate of Need and Route Permit.
- Dairyland Power will develop the relocation of the 161 kV portion east of Plainview, which will be permitted separately from this project.











CONSTRUCTION AND RESTORATION ACTIVITIES

Our typical transmission line construction process includes the following steps:



1. Soil surveys and property staking



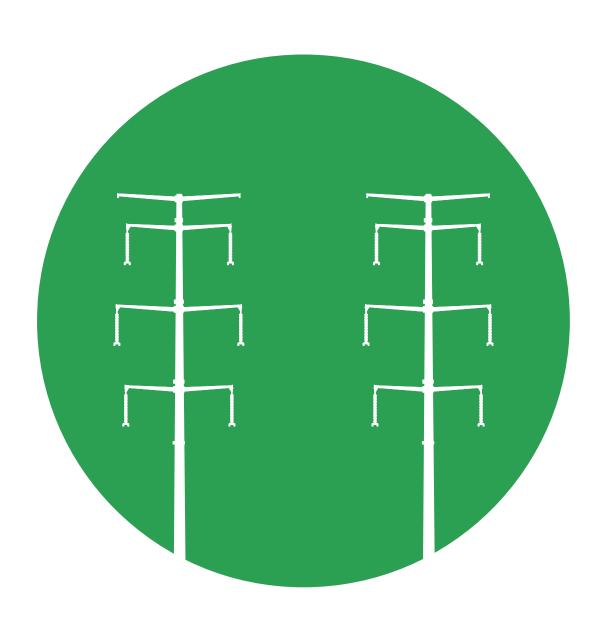
2. Construction access and vegetation clearing



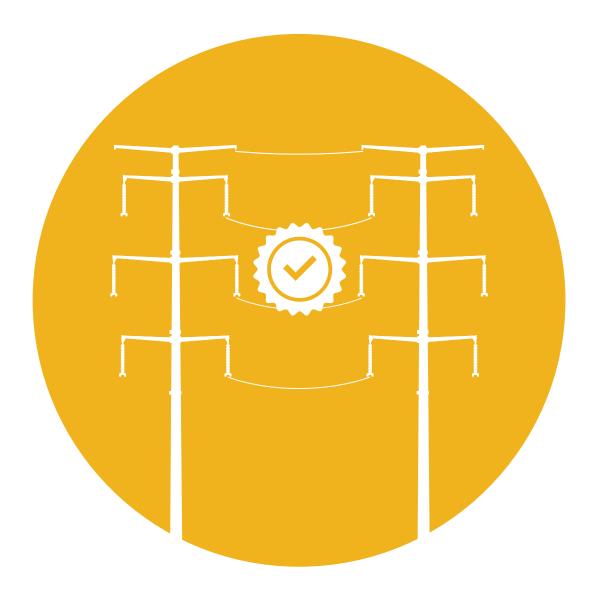
3. Mobilizing equipment and delivering material



4. Foundation construction



5. Installing structures and stringing conductor



6. Land restoration

We currently expect construction to start in 2026 with the project in-service in 2028.









WHAT WE HEARD

In spring 2023, we launched a public engagement campaign to collect feedback on the project routing process.

SPRING 2023 ENGAGEMENT EFFORTS

- 6 in-person open houses
 1,070 website visits
- 2 virtual open houses
- 1 self-guided virtual open house
- 17,000+ postcards mailed
- 43,000 people reached with 11 newspaper ads
- 67,000 people reached with Facebook posts
- 145 total comments received

COMMENTS RECEIVED BY CATEGORY

Top Comment Topics



Routing 40 Comments



Information Request 25 Comments



Distance from Homes/Structures 23 Comments



Mapping Request 21 Comments



Property Development 20 Comments

All Comment Topics

Aviation	3 🗩	Noise	1 🤛	Trails	1 🤊
Community Impacts	1 🤛	Property Access	2 🥏	Trees	4 🗩
Cost	1 🤊	Property Damage	5 🗩	Utilities	2 🗭
Cultural Resources	2 🥏	Property Development	20 🧭	Vegetation Management	5 🧭
Endangered Species	1 🤊	Property Values	5 🗩	Visual/Aesthetic	4 🗩
Farming	7 🥏	Dist. from Homes/Structure	es 23 🗩	Water	3 🗩
General	12 🗩	Recreation	2 🥏	Wetlands	8 🗩
Geography	6 🗭	Reliability	1 🤊	Wildlife	8 🗭
Information Request	25 🗩	Renewable Energy	3 🗩		
Livestock	3 🗩	Routing	40 🗩		
Mailing List Request	3 🗩	ROW	2 🥏		
Mapping Request	21 🤛	Safety	2 🥏		
Materials	3 🗩	System Planning	1 🤛		

Every comment we receive is considered during the routing process. Your feedback helped us make adjustments and refinements to the preliminary route options. Thank you for your feedback and participation in the route development process.









WHATARE ELECTRICAND MAGNETIC

ELECTRIC AND MAGNETIC FIELDS, OR EMF,

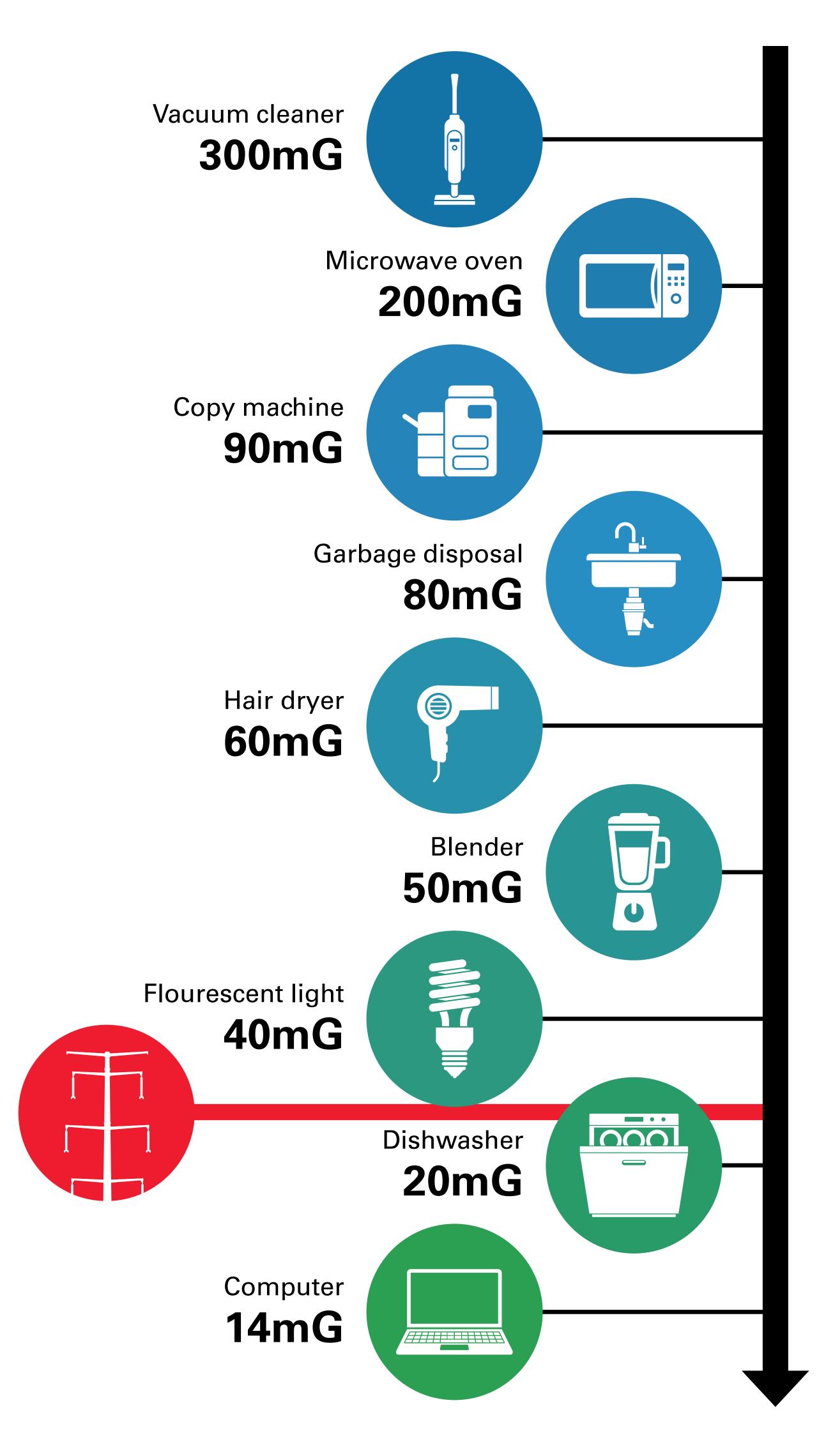
exist where electricity is produced or used. This includes appliances, lamps, computers, power lines and many other things. EMF dissipate rapidly the farther away they are from a source or device.

Magnetic fields, measured in milliGauss (mG) are produced by electric current and exist only when a device is turned on.

The power lines providing electricity to your home produce EMF, just like your household appliances.

The World Health Organization and American Cancer Society have studied EMF and concluded power lines do not increase risks to cancer.

Typical magnetic fields six inches from common home appliances measured in milliGauss (mG) are depicted in the chart.



Standing at the edge of a typical transmission line right-of-way 27mG











ROUTE DEVELOPMENT PROCESS

Developing route alternatives involves multiple steps. The routes we plan to submit in the Route Permit Application are designed to minimize impacts to the area, including humans, environment and existing land use such as agriculture.

DEVELOPING PRELIMINARY ROUTE OPTIONS



WEARE HERE

SUBMITTING PROPOSED ROUTES TO THE MINNESOTA PUBLIC UTILITIES COMMISSION

Note: This process is flexible and steps may be revisited based on additional data and feedback we receive.

WHAT WE EVALUATE IN DEVELOPING ROUTES

Opportunities:

- Existing transmission line corridors
- Existing utility corridors (like pipelines)
- Roads and highways
- Property, field and section lines

Constraints or issues that may affect route development:

- Existing homes and businesses
 Conservation areas, nature
- Farmland impacts
- Airports
- Cemeteries and religious facilities
- Rivers, lakes, streams and wetlands
- Conservation areas, nature preserves, and state and local parks
- Cultural and historic resources
- Sensitive animal and plant species









WEWANTO HEAR FROM YOU!



Visit:

MMRTProject.com



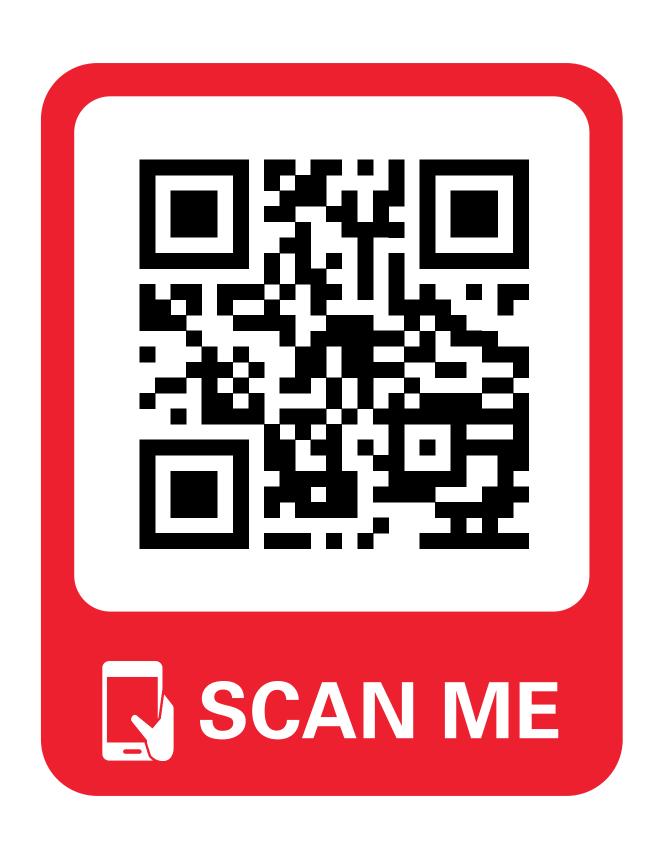
Email:

Contact@MMRTProject.com



Call:

800-853-3365



If you have questions or want to share your feedback, contact us. We will respond to you as soon as possible.







