

BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben
Hwikwon Ham
Audrey C. Partridge
Joseph K. Sullivan
John A. Tuma

Chair
Commissioner
Commissioner
Commissioner
Commissioner

In the Matter of the Application of Minnesota
Power and American Transmission Company,
LLC for a Certificate of Need and Route Permit
for the Iron Range - St. Louis County -
Arrowhead 345 kV Transmission Project

SERVICE DATE: July 1, 2026

DOCKET NO. E-015/CN-25-111;
E-015/TL-25-112

The above-entitled matter was considered by the Commission on June 4, 2026, and the following disposition made:

- 1. Authorized the Commission's Energy Infrastructure Permitting (EIP) staff to prepare an Environmental Assessment (EA) Addendum to include the following routing alternatives:**
 - a. Route Alternative A**
 - b. Route Alternative B, redesignated as Alignment Alternative AA-6**
 - c. Route Alternative C**
 - d. Alignment Alternative AA-2**
 - e. Alignment Alternative AA-3**
 - f. Alignment Alternative AA-4**
 - g. Alignment Alternative AA-5**
- 2. Adopted the Draft Scoping Decision¹ as the Scoping Decision (see attached) for the EA Addendum and the Environmental Report, with the following modification: Revise the scoping decision to reflect the redesignation of Route Alternative B as Alignment Alternative AA-6.**
- 3. Requested that an Administrative Law Judge from the Court of Administrative Hearings preside over the joint public hearings for the project's certificate of need and route permit application and prepare Findings of Fact, Conclusions of Law, and Recommendations on the merits of the proposed Project's route selection and**

¹ As reflected in Attachment A to Staff Briefing Papers filed on May 27, 2026.

any necessary route permit conditions. Requested that the judge prepare a summary of public comments related to the certificate of need public hearing, but did not request findings, conclusions, or a recommendation on the merits of the certificate of need application.

4. Determined that an extension to the route permit deadline is not necessary because the 12-month deadline under Minn. Stat. § 216B.243 applies to this joint certificate of need and route permit proceeding.
5. Issued the Draft Route Permit² (see attached) prepared by Commission EIP staff, including the special permit conditions.³

This Order shall become effective immediately.



BY ORDER OF THE COMMISSION

A handwritten signature in blue ink, appearing to read "Sasha Bergman".

Sasha Bergman
Executive Secretary

To request this document in another format such as large print or audio, call 651.296.0406 (voice). Persons with a hearing or speech impairment may call using their preferred Telecommunications Relay Service or email consumer.puc@state.mn.us for assistance.

² As reflected in Attachment B to Staff Briefing Papers filed on May 27, 2026.

³ CURE and MTERA filed comments in support of including a community benefits agreement as a new condition in the Draft Route Permit. Although this condition is not included in the Draft Route Permit, participants in this docket may continue to develop and present such proposals during the public hearing process and proceedings subsequent.



In the Matter of the Application of Minnesota Power and American Transmission Company, LLC for a Certificate of Need and Route Permit for the Iron Range – St. Louis County – Arrowhead 345 kV Transmission Project in Itasca and St. Louis County, Minnesota

**ENVIRONMENTAL ASSESSMENT ADDENDUM
AND ENVIRONMENTAL REPORT
SCOPING DECISION**

DOCKET NOS. E015/CN-25-111; E015/TL-25-112

The above matter has come before the Minnesota Public Utilities Commission (Commission) for a decision on the scope of the Environmental Assessment Addendum (EA addendum) and Environmental Report (ER) to be prepared for Minnesota Power and American Transmission Company, LLC's proposed 67.5-mile 345 kV transmission line project in Itasca and St. Louis County, Minnesota. The Commission is reviewing this application under [Minnesota Statute §216I](#) and [Minnesota Rules 7849](#).

The project requires a certificate of need and route permit from the Minnesota Public Utilities Commission (Commission) before construction and operation. The certificate of need (CN-25-111) and the route permit (TL-25-112) are being considered by the Commission in separate dockets.

Project Description

On January 5, 2026, Minnesota Power, on behalf of itself and co-applicant American Transmission Company, LLC (together, applicants) submitted a joint route permit application and certificate of need application to the Commission to construct the Iron Range – St. Louis County – Arrowhead 345 kV Transmission Project (project).¹

The proposed project would involve construction of approximately 67.5 miles in total of transmission line from Minnesota Power's Iron Range Substation near Grand Rapids, Minnesota to Minnesota Power's St. Louis County Substation near Hermantown, Minnesota, with a connection to American Transmission Company's nearby Arrowhead Substation along portions of Itasca and St. Louis Counties (Map 1-1). The proposed route would be located along, and in some cases replace existing high-voltage transmission lines for 92 percent of its length.

The Project would require 250 feet of right-of-way in total and the applicants have requested a total route width of 500 feet on either side of the alignment (1,000 feet in total). The project will share existing transmission line right-of-way (ROW) in some areas; in others it will parallel existing ROW. New transmission lines would be required to connect the existing substations in Grand Rapids and Hermantown. The proposed Project would also include modifications to the Iron Range Substation, St. Louis County Substation, and the ATC Arrowhead Substation (Map 2-4).

Specifically, the applicants proposed construction of the transmission line in three segments as described in their combined application:

¹ Minnesota Power and American Transmission Company, LLC, Combined Certificate of Need and Route Permit Application for the Iron Range – St. Louis County – Arrowhead 345kV Transmission Line Project, January 5, 2026, eDockets Number [20261-226460-03](#) [herein after Route Permit Application or RPA].

- A. Segment 1 – Construct approximately 32.7 miles of new single-circuit 345 kV line on double-circuit capable structures, to be built along existing 230 high-voltage transmission line rights-of-way owned by Minnesota Power from the existing Minnesota Power Iron Range Substation and continuing to north of the St. Louis River in St. Louis County (Map 2-1). The proposed transmission line will be co-located for 87 percent of its length with existing high-voltage transmission lines owned by Minnesota Power.
- B. Segment 2 – Replace approximately 33.3 miles of existing 230 kV line with new double-circuit 345 kV structures and conductor from north of the St. Louis River in St. Louis County to the existing St. Louis County Substation in Solway Township, utilizing and expanding the existing high-voltage transmission line rights-of-way owned by Minnesota Power (Maps 2-2a and 2-2b). One circuit in this segment will be operated at 345 kV and the other circuit will continue to operate at 230 kV. The 230 kV circuit will operate on the 345 kV double-circuit structures and will use the new 345 kV conductor but will be operated at 230 kV. The 230 kV circuit will be upgraded to 345 kV at a future date when conditions warrant energizing at 345 kV.
- C. Segment 3 - Construct approximately 1.5 miles of new double-circuit 345 kV transmission line that is co-located for 50 percent of its length, jointly owned by Minnesota Power and ATC, from Minnesota Power's St. Louis County Substation in Solway Township to the existing ATC Arrowhead Substation in Hermantown (Map 2-3).

Additionally, the applicants proposed the following substation improvements as described in their combined application and detailed in Map 2-4:

- 1. Modification of the Iron Range Substation to accommodate one additional 345 kV line entrance and associated high voltage equipment. An expansion of Minnesota Power's Iron Range Substation, including 500 kV/345 kV transformers and 345 kV equipment, is currently under construction as part of the Northland Reliability Project (Docket Nos. E015,ET2/CN-22-416 and E015,ET2/TL-22-415) and will require further modification and equipment additions to accommodate the project.
- 2. Expansion of the St. Louis County Substation to accommodate three additional 345 kV line entrances and associated high voltage equipment. The St. Louis County Substation is currently under construction as part of Minnesota Power's HVDC Modernization Project (Docket Nos. E015/CN-22-607 and E015/TL-22-611) and will require an expansion to accommodate the project.
- 3. Expansion of the existing ATC Arrowhead Substation to accommodate two additional 345 kV line entrances and associated high voltage equipment.

In their application, the applicants proposed to start construction of the project by 2029 with an estimated in-service date by 2032 and provided an estimated total project cost between \$444.1 and \$519.3 million dollars.²

² RPA, p.22

Project Purpose

The applicants indicate that the project is needed to enhance grid reliability, to increase grid efficiency and regional transfer capability, and to meet the growing demand for reliable clean energy in the Upper Midwest.³ The project is part of the Long Range Transmission Plan (“LRTP”) Tranche 2.1 Portfolio approved by the Midcontinent Independent System Operator (MISO) in 2024.⁴

Regulatory Background

In Minnesota, no person may construct a high voltage transmission line without a route permit issued by the Commission.⁵ Because the proposed project is designed for and capable of operating at a nominal voltage of 345 kV and is 67.5 miles long, it meets the statutory definition of a high voltage transmission line and therefore requires a route permit from the Commission.⁶ Because the project is a high voltage transmission line with a capacity in excess of 300 kV with at least 80 percent of the distance of the line located along existing high voltage transmission line right-of-way, the route permit application qualifies for Commission review under the standard review process described in Minnesota Statute §216I.07.

The project requires a certificate of need from the Commission because the project is a large energy facility as defined in Minn. Stat. §216B.2421, subd. 2.

The applicant has prepared an environmental assessment (EA) for the project as part of their application. An EA contains an overview of the resources affected by the project. It also discusses potential human and environmental impacts and possible mitigation measures.⁷ The Commission is charged with preparing an EA addendum if alternative routes or potential impacts that require study are identified during the public information and scoping process.⁸

Minnesota Rule 7849.1200 requires that an environmental report (ER) be prepared for a certificate of need application. In a January 23, 2026, order, the Commission granted a variance to Minn. Rules 7849.1200 and 7849.1400 authorizing Commission Energy Infrastructure Permitting (EIP) staff to prepare the ER.⁹ Consistent with Minn. Rule 7849.1900, the ER analysis will be included as part of the EA addendum.

The Commission’s January 23, 2026, order found the CN portion of the joint application to be complete and authorized review using the informal comment and reply process under 7829.1200.¹⁰ On January 20, 2026, the Commission accepted the route permit portion of the joint application as sufficiently complete and found that the application qualified for review under the standard review process.¹¹

³ RPA, p. 8

⁴ RPA, p. 8

⁵ Minnesota Statute 216I.05, subd. 1.

⁶ Minnesota Statute §216I.02, subd. 6.

⁷ Minnesota Statute 216I.07, subd. 3.

⁸ Minnesota Statute § 216I.07, Subd. 3(b).

⁹ Public Utilities Commission Order, January 23, 2026, eDockets Number [20261-227318-01](#).

¹⁰ Public Utilities Commission Order, January 23, 2026, eDockets Number [20261-227318-01](#).

¹¹ Public Utilities Commission Letter, Application Completeness Determination, eDockets Number [20261-227106-01](#).

Scoping Process Summary

Scoping is the first step in the environmental review process. The scoping process has three primary purposes: (1) to gather public input on the impacts, mitigation measures, and routing alternatives to study in an EA addendum, (2) to identify system alternatives to be studied in the ER, and (3) to determine what conditions should be included in a draft route permit. The scoping process aids in the Commission's decision on the certificate of need and route permit application.

This scoping decision identifies impacts and alternatives to be studied in an EA addendum and the scope of the ER.

Public Information and Scoping Meetings

Staff gathered input on the scope of the EA addendum and ER through four public scoping meetings and an associated comment period as summarized below:

Meeting Date	Location	Approximate Number of Attendees
April 6, 2026	Grand Rapids, MN	15
April 7, 2026	Floodwood, MN	20
April 7, 2026	Hermantown, MN	60
April 9, 2026	Virtual	20

The purpose of the meetings was to provide information to the public about the proposed project, to answer questions, and to allow the public an opportunity to suggest impacts, mitigation measures, and alternatives to be studied.

Approximately 115 people attended the public meetings. Thirty-four people provided verbal comments. Commenters asked questions about the need for the project, regional vs. local benefits of the project, and potential impacts to ratepayers. Several commenters spoke about the proposed Hermantown data center, their experiences interacting with Minnesota Power on their property, and concerns regarding aesthetic impacts of tree clearing near residences. Commenters also expressed concerns with electric and magnetic fields (EMF), stray voltage, noise, and human health, among other topics.¹²

Written Public Comments

A comment period beginning January 22, 2026, and ending on April 23, 2026, provided the public with an opportunity to provide input on the proposed project. Written comments were received from forty-two members of the public, two state agencies, one local government unit, four organizations, and the applicant. All written public comments have been compiled and can be viewed in eDockets.¹³

Agency Comments

The Minnesota Department of Natural Resources (DNR) provided comments on the potential impacts of the proposed transmission line crossings within Aquatic Management Areas, trout streams, state

¹² ISA 345 kV Transmission Project, Oral Comments from Public Information and Scoping Meetings, April 15, 2026, eDockets Number [20264-230437-01](#).

¹³ ISA 345 kV Transmission Project, Written Public Comments Received, April 28, 2026, eDockets Number [20264-231117-01](#).

forests, and trails. The DNR provided mitigation measures to address these impacts and suggested several permit conditions.¹⁴ The comments included a Natural Heritage Review that was completed for the project that details Sites of Biodiversity Significance, Native Plant Communities, and State-Listed Species that are associated with the proposed route.¹⁵

The Minnesota Department of Transportation (MnDOT) provided comments on how the project is proposed to traverse or collocate with trunk highways 65, 73, 33 and United States Highway 2 and will be in proximity to or impact MnDOT right-of-way (ROW). Additionally, MnDOT provided comments and recommendations for the applicants and the Commission to consider regarding blowing snow control, scenic byways, and route alignment and collocation considerations. MnDOT recommended that the applicants work with MnDOT's Blowing Snow Control team to avoid impacts to active snow traps. MnDOT also recommended that the applicants coordinate with MnDOT's scenic byways staff, if they haven't already been engaged, and that mitigation measures for unavoidable impacts within the scenic byways are recommended. Regarding route alignment and collocation considerations, MnDOT requested enough time for coordination if any alternative routes are proposed during the permitting review process that would collocate with trunk highway.¹⁶

Local Government Unit Comments

St. Louis County Land and Minerals Department

Nate Anderson, the Deputy Director for the St. Louis County Land and Minerals Department commented that the proposed route for the project crosses significant stretches of land owned by the county and acquired through grant funds, and that some of these lands have deed restrictions limiting what can be located on the land.

Organization Comments

CURE

CURE provided comments on the need for and cost of the project, the scope of environmental review, and proposed permit conditions for the project. The comments asked for more information about the interconnection with the proposed data center, and the value and impact of the project on tribes and tribal resources. The comments also recommended more analysis of environmental impacts on treaty-protected resources and consultation with treaty organizations and tribes.

Midcontinent Independent System Operator, Inc.

The Midcontinent Independent System Operator, Inc. (MISO) provided comments to describe the regional transmission planning process and need for the proposed project.

Midwest Tribal Energy Resources Association

Midwest Tribal Energy Resources Association (MTERA) provided comments on the need for formal tribal consultation for the project, the need for more analysis on the impacts to tribal communities from the large load expected from interconnection to the Hermantown data center, and electric rate increases associated with the project that may impact tribal members. The comment also suggested requiring a community benefit plan for each tribe along the proposed route to mitigate impacts to tribal members.

¹⁴ MDNR comment, April 23, 2026, eDockets Number [20264-230898-01](#).

¹⁵ MDNR Natural Heritage Review Letter, April 23, 2026, eDockets Number [20264-230898-02](#).

¹⁶ MnDOT comment, April 22, 2026, eDockets Number [20264-230780-01](#).

World Organization for Landowner Freedom and No CapX 2020

Several comments were submitted by Carol Overland on behalf of the World Organization for Landowner Freedom (WOLF) and No CapX 2020 discussing the project need, benefits of the project to Minnesota, benefits and costs to ratepayers, power flows, impacts of tariffs on construction costs, cumulative impacts of this project with the proposed Hermantown data center, among other topics.¹⁷

Other Comments

Members of the public who submitted written public comments expressed concern about a variety of potential impacts associated with the project, including but not limited to property values, multiple transmission lines on a property, human health, EMF, aesthetics, land use, tree clearing, and noise. Over half of the commenters expressed concern over cumulative impacts of the interconnection of the project with the proposed Hermantown data center and questioned whether the need for the transmission line was tied to the data center. Commenters also proposed multiple route and alignment alternatives, discussed below.

Applicant Comments

On April 23, 2026, the applicants filed comments in response to public meeting comments and on aspects of the permitting process. The applicants addressed several concerns raised during the meetings, including vegetation management, noise, cumulative impacts, and customer-specific infrastructure in relation to the proposed Hermantown data center. The applicants also commented on the permitting process regarding the permitting schedule and their interpretation of Minnesota Rules Chapter 7849 that cover the preparation of an ER.

Commission Review

Commission EIP staff summarized the comments and alternatives submitted during the public comment period and provided a draft scoping decision in the staff briefing papers.¹⁸ The briefing papers outlined the alternatives proposed during the scoping process and identified those that staff recommended for inclusion in the scoping decision. At the June 4, 2026, agenda meeting, the Commission deliberated on the draft scoping decision, among other topics. The Commission approved staff's draft scoping decision and directed staff to rename "Route Alternative B" as "Alignment Alternative AA-6," consistent with the applicants' request.¹⁹

HAVING REVIEWED THE MATTER and in accordance with Minnesota Statute §216I.05 and Minnesota Rule 7849.1400, the Commission hereby makes the following scoping decision:

MATTERS TO BE ADDRESSED

¹⁷ Carol Overland Comment Letters on behalf of WOLF and No CapX 2020, April 8, 2026, eDockets Number [20264-230188-01](#), and April 25, 2026, eDockets Number [20264-230986-01](#).

¹⁸ Minnesota Public Utilities Commission, Staff Briefing Papers June 4, 2026 Agenda, May 27, 2026, eDockets Number [20265-232259-01](#).

¹⁹ Minnesota Power and American Transmission Company, LLC Comments on Staff Briefing Papers, June 2, 2026, eDockets Number [20266-232478-01](#).

The issues outlined below will be analyzed in the EA addendum for the project. The EA addendum will describe the project and the human and environmental resources of the project area and will provide information on potential impacts as they relate to the topics outlined in this scoping decision as well as possible mitigation measures.

The EA addendum will include a description and analysis of the human and environmental impacts of the proposed project and project alternatives that would have otherwise been required by Minn. Rule 7849.1500 in an environmental report.

I. DESCRIPTION OF THE PROPOSED PROJECT

- a. Project Description
- b. Project Purpose
- c. Project Cost and Schedule

II. PROJECT DESIGN, CONSTRUCTION, AND OPERATION

- a. Structures
- b. Right-of-Way Requirements
- c. Substation Modifications
- d. Operation & Maintenance

III. REGULATORY FRAMEWORK

- a. Certificate of Need
- b. Route Permit
- c. Environmental Review Process
- d. Other Permits and Approvals

IV. AFFECTED ENVIRONMENT, POTENTIAL IMPACTS, AND MITIGATIVE MEASURES

The EA addendum will include a discussion of the human and environmental resources potentially impacted by the proposed project and the routing alternatives described herein (Section V). Potential impacts, both positive and negative, of both the project and each alternative will be described. The EA will describe mitigation measures that could reasonably be implemented to reduce or eliminate the identified impacts.

EA addendum data and analyses will be commensurate with the importance of potential impacts and the relevance of the information for consideration of mitigation measures. Commission staff will consider the relationship between the cost of data and analyses and the relevance and importance of the information in determining the level of detail of information to be prepared for the EA addendum. Less important material may be summarized, consolidated, or simply referenced.

If relevant information cannot be obtained within timelines prescribed by statute or rule, or if the costs of obtaining such information is excessive, or the means to obtain it is not known, Commission staff will include a statement in the EA addendum that such information is incomplete or unavailable and the relevance of that information in evaluating potential impacts.

- A. Environmental Setting
 - B. Human Settlements
 - 1. Noise
 - 2. Aesthetics
 - 3. Displacement
 - 4. Socioeconomics
 - 5. Property Values
 - 6. Zoning and Land Use
 - 7. Public Services
 - C. Public Health and Safety
 - 1. Electric and Magnetic Fields
 - 2. Stray Voltage
 - 3. Mental Health
 - D. Land-Based Economies
 - 1. Agriculture
 - 2. Forestry
 - 3. Mining
 - 4. Recreation and Tourism
 - E. Archaeological and Historic Resources
 - F. Natural Environment
 - 1. Air Quality / Greenhouse Gases
 - 2. Climate Change and Project Resilience
 - 3. Water Resources
 - a) Surface Waters
 - b) Groundwater
 - c) Wetlands
 - 4. Soils
 - 5. Vegetation
 - 6. Wildlife
 - G. Greenhouse Gas Emissions and Climate Resilience
 - H. Rare and Unique Natural Resources
- V. **ROUTE ALTERNATIVES TO BE EVALUATED IN THE EA ADDENDUM**
- The EA addendum will analyze the following alternatives:
- a. Alignment Alternative AA-2
This alignment alternative begins and terminates in Section 11, Culver Township, St. Louis County, departing from the applicant's alignment and heading to the southeast before turning east for approximately 0.4 miles and returning to the applicant's alignment where the 98-line and 9-line parallel each other (See Map 3-1).
 - b. Alignment Alternative AA-3
This alignment alternative begins and terminates in Section 11, Culver Township, St. Louis County, departing from the applicant's alignment and heading to the south along a property boundary. It then turns east for approximately 0.35 miles and returns to the applicant's alignment where the 98-line and 9-line parallel each other (See Map 3-2).

- c. Alignment Alternative AA-4
This alignment alternative begins and terminates in Section 17, Solway Township, St. Louis County, departing from the applicant's alignment just before crossing the White Pine River, heading southeast and crossing Gaus Road before returning to the applicant's proposed alignment (See Map 3-3).
- d. Alignment Alternative AA-5
This alignment alternative begins in section 25 and ends in section 36 of Solway Township, St. Louis County. The alternative extends farther east from the applicant's alignment along the 90-line corridor, and heads south through green field before crossing Morris Thomas Road and connecting to the proposed St. Louis County substation expansion (See Map 3-4).
- e. Alignment Alternative AA-6
This alignment alternative begins in Section 12 and returns to the applicant's proposed alignment in section 13, Feeley Township, Itasca County. This alternative leaves the applicant's alignment in Segment 1 and heads southeast to the eastern corner of a property boundary, where it follows the property boundary south and reconnects to the applicant's alignment (See Map 3-5).
- f. Route Alternative A
Route Alternative A follows the applicant's proposed route segment 1 from the Iron Range Substation in Itasca County to Section 27 and 28, Van Buren Township, St. Louis County, just north of the St. Louis River. This alternative proposes replacing the existing 98-line with a 345 kV structure in the existing transmission corridor instead of co-locating (See Map 3-6).
- g. Route Alternative C
Route Alternative C departs from section 13, Cedar Valley Township, St. Louis County, and ends on the border of Section 25, Cedar Valley Township and Section 30, Elmer Township, St. Louis County. This alternative extends approximately 800 feet east of the applicant's alignment and parallels the applicant's alignment south along property lines (See Map 3-7).

VI. **ALTERNATIVES TO THE PROPOSED PROJECT**

The EA addendum will include an analysis of alternatives to the proposed transmission line project, pursuant to Minnesota Rules 7849.1500. This section will describe and analyze the feasibility of the following system alternatives, and the human and environmental impacts and potential mitigation measures associated with each:

- a. No-build Alternative
- b. Demand Side Management
- c. Purchased Power
- d. Transmission Line of a Different Size or Type
 - 1. Higher and Lower Voltage Lines

- 2. Undergrounding
- e. Upgrading of Existing Facilities
 - 1. Reconductoring of Existing Lines
 - 2. Double-Circuiting of Existing Lines
- f. Generation Rather Than Transmission
- g. Use of Renewable Energy Sources

ISSUES OUTSIDE THE SCOPE OF THE EA ADDENDUM

The EA addendum will not address following topics:

- A. Any route, route segment, or alignment alternative not specifically identified for study in this scoping decision.
- B. Any system alternative (an alternative to the proposed transmission line project) not specifically identified for study in this scoping decision.
- C. Policy issues concerning whether utilities or local governments should be liable for the cost to relocate utility poles when roadways are widened.
- D. The manner in which landowners are paid for transmission line right-of-way easements.

SCHEDULE

The EA addendum is anticipated to be completed and available in late summer/early fall of 2026. Upon completion, it will be noticed and made available for review. Public hearings will be noticed and held in the project area after issuance of the EA addendum. Comments on the EA addendum may be submitted into the hearing record.

Signed this 1st day of July, 2026

STATE OF MINNESOTA
MINNESOTA PUBLIC UTILITIES COMMISSION



Sasha Bergman, Executive Secretary

Attachment 1 – Maps

Overview

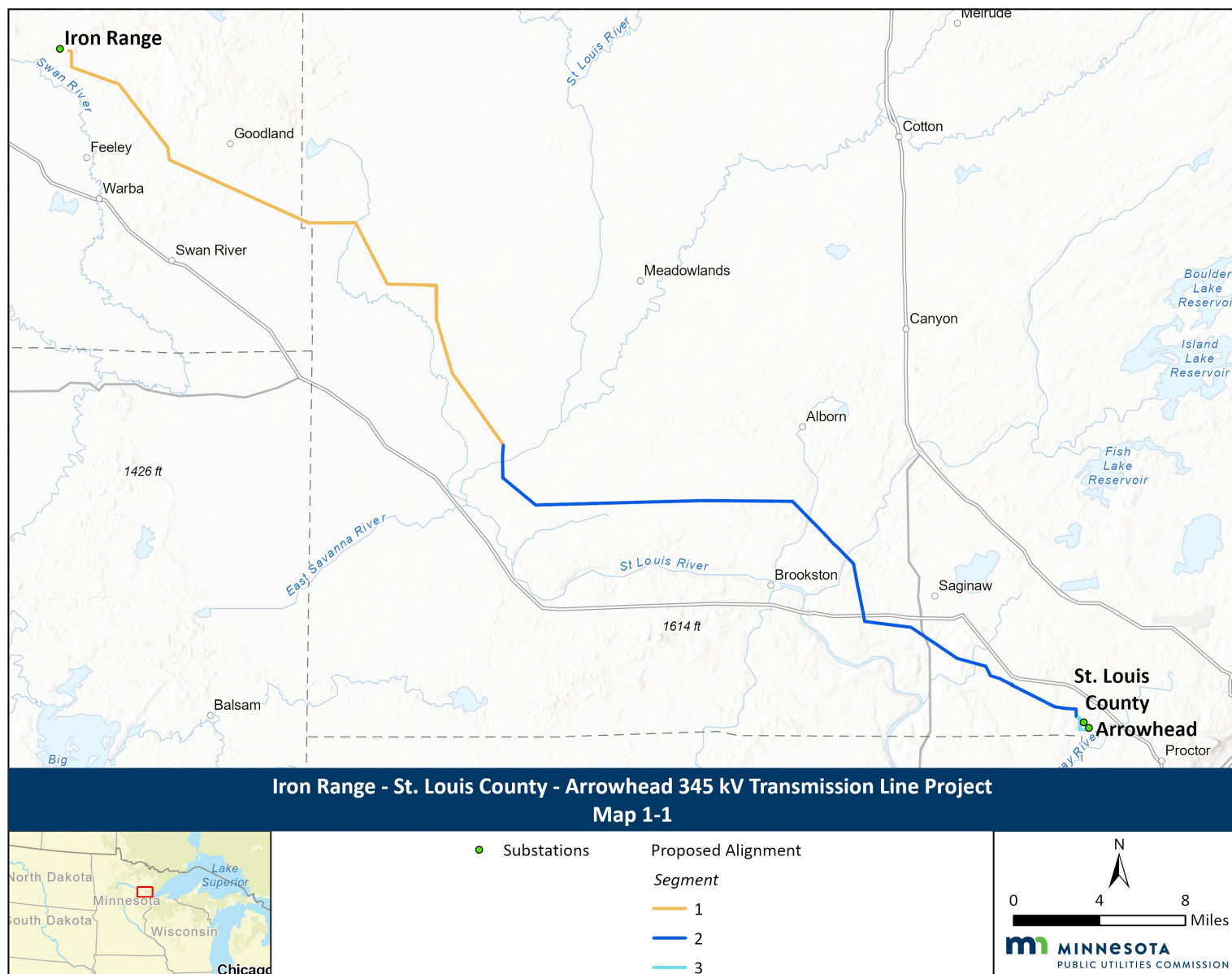
Map 1-1 Project Overview

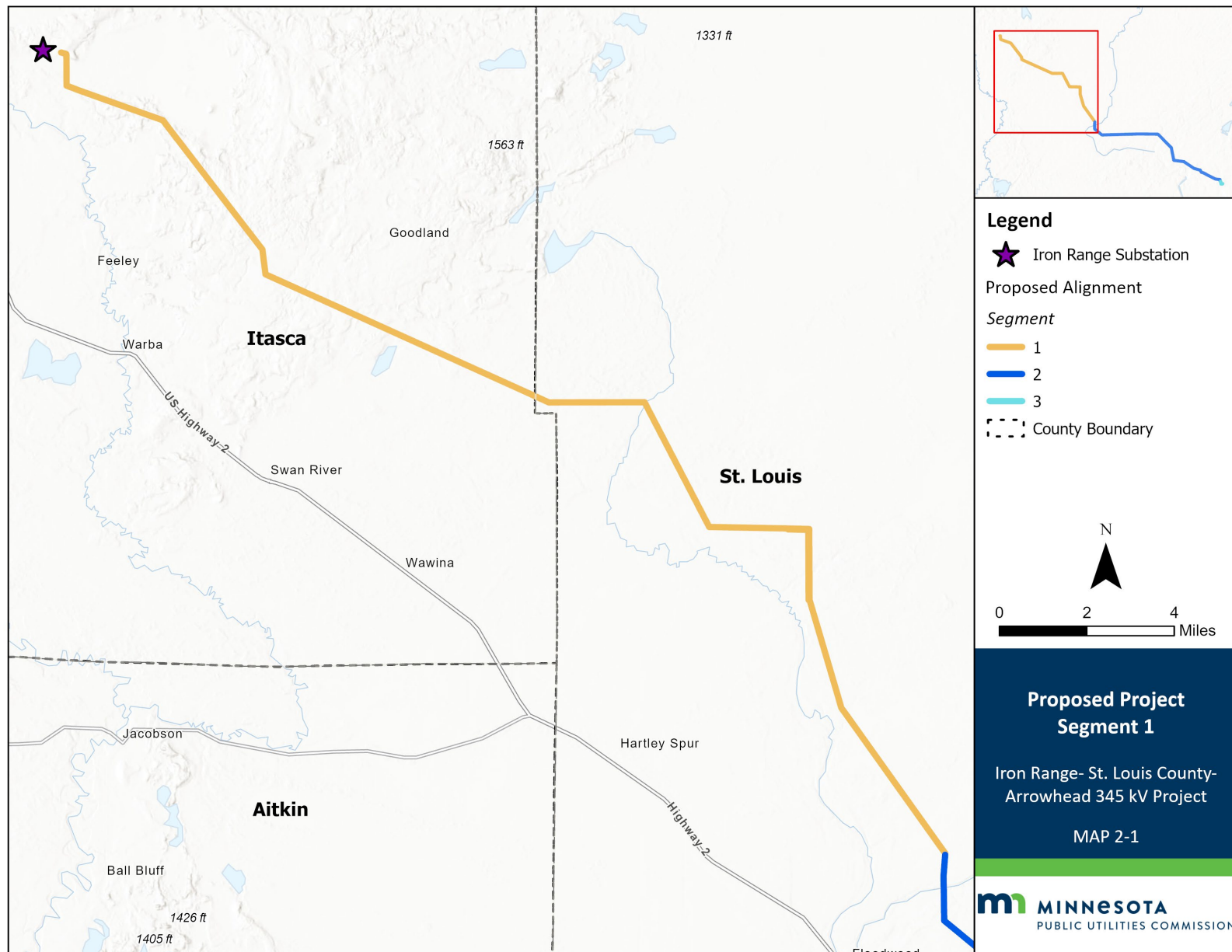
Detailed Project Maps

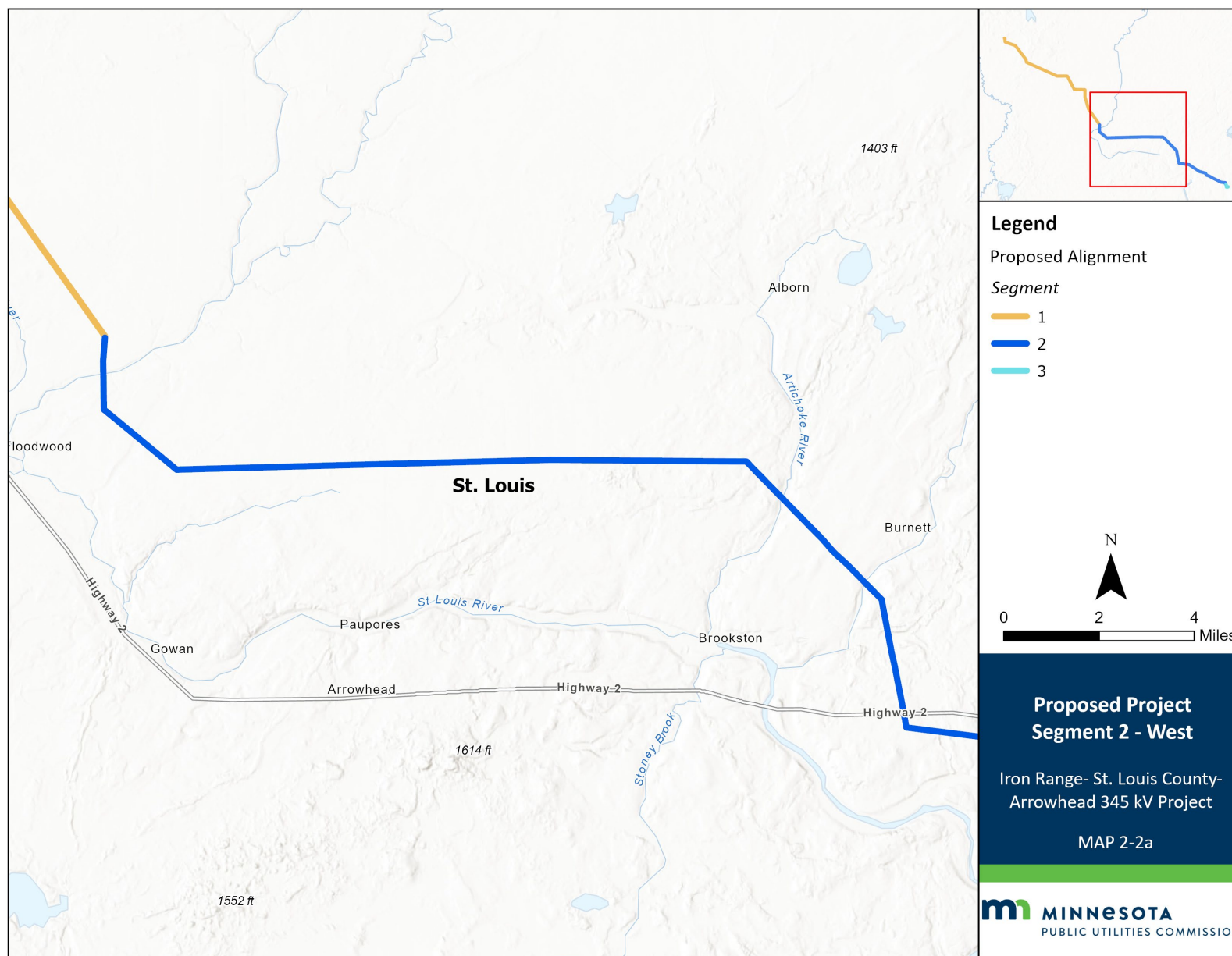
Map 2-1 Segment 1
Map 2-2a Segment 2 West
Map 2-2b Segment 2 East
Map 2-3 Segment 3
Map 2-4 Substation Expansions

Alternatives Proposed During Scoping

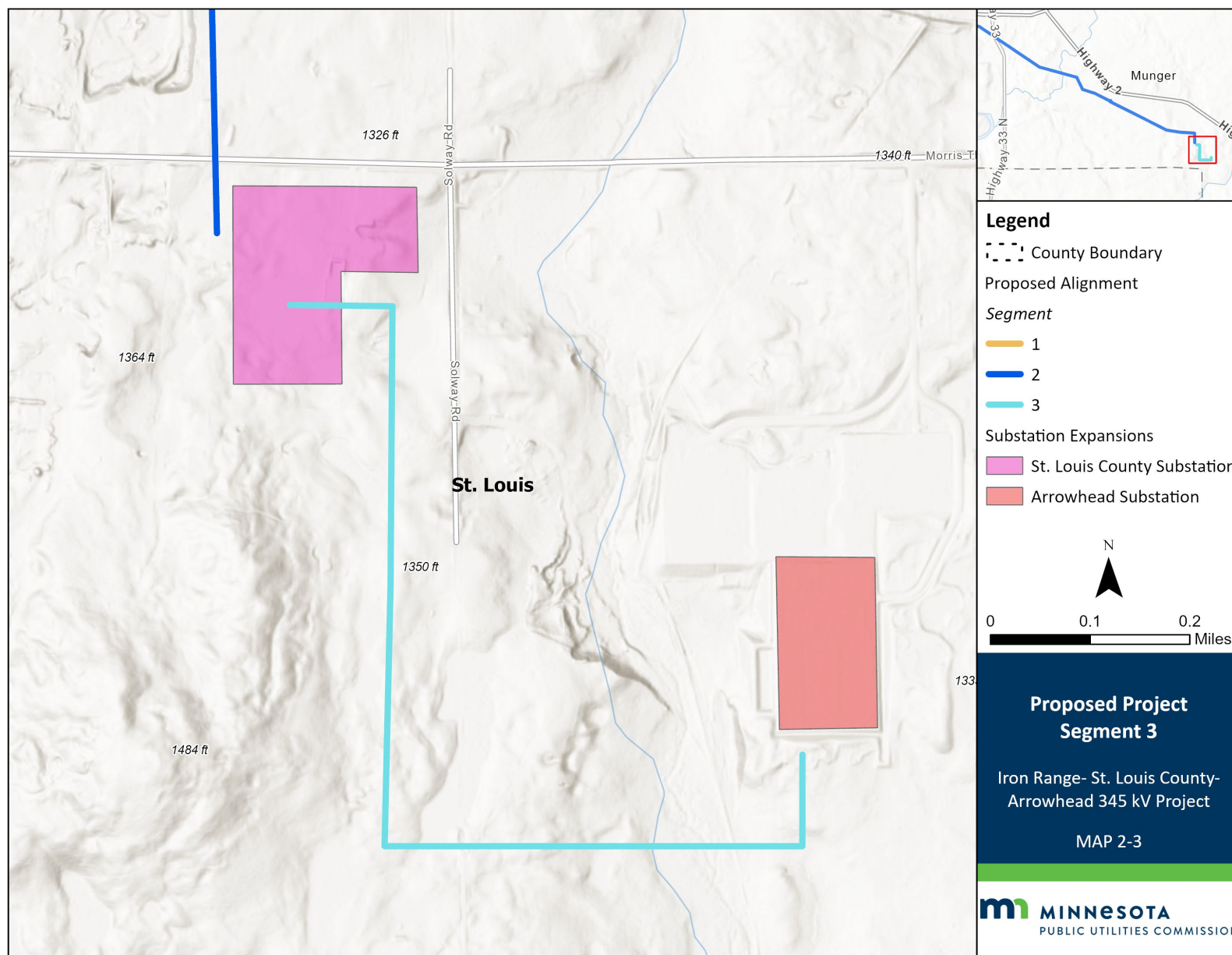
Map 3-1 AA-2 Alternative Alignment
Map 3-2 AA-3 Alternative Alignment
Map 3-3 AA-4 Alternative Alignment
Map 3-4 AA-5 Alternative Alignment
Map 3-5 AA-6 Alternative Alignment
Map 3-6 Route Alternative A
Map 3-7 Route Alternative C

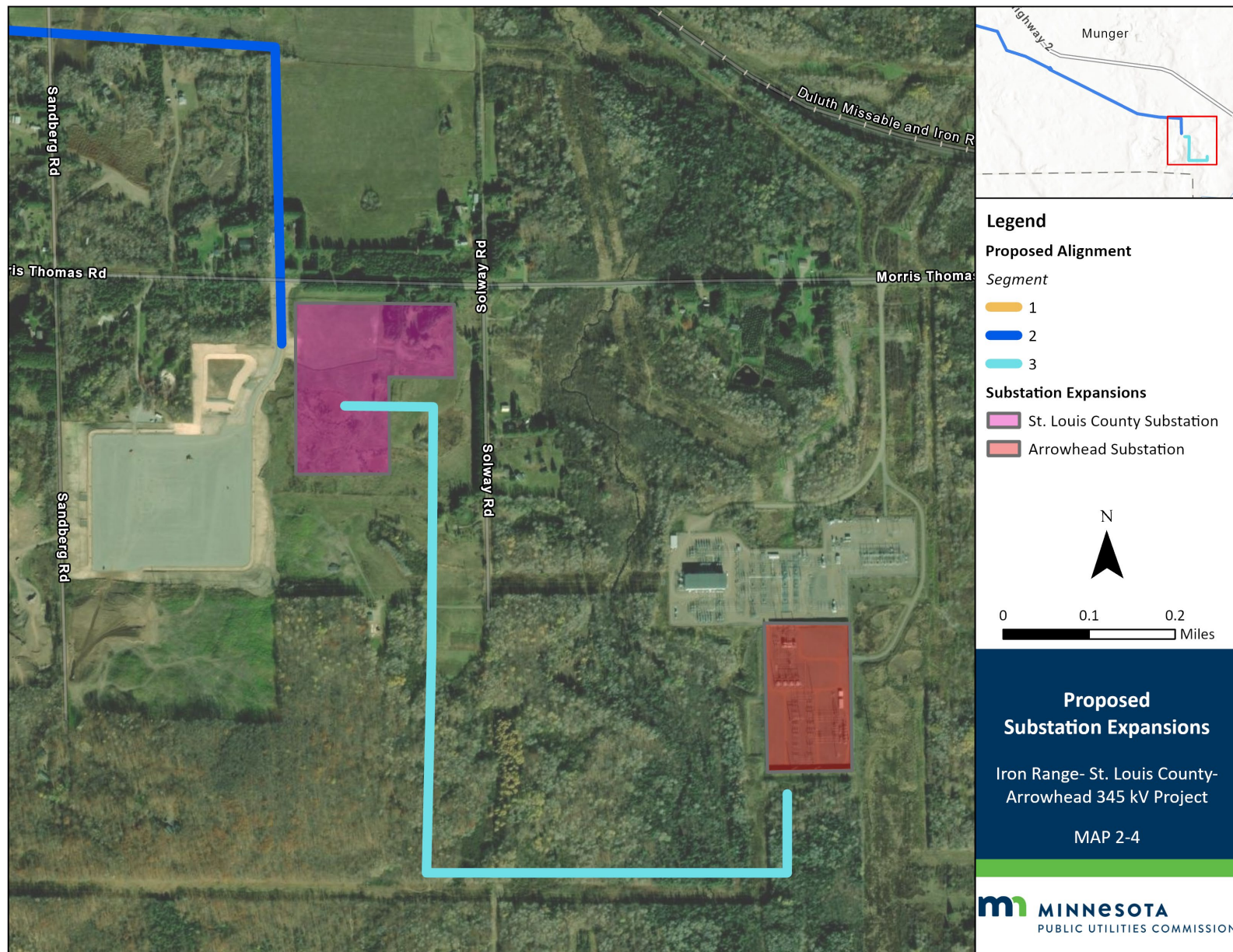


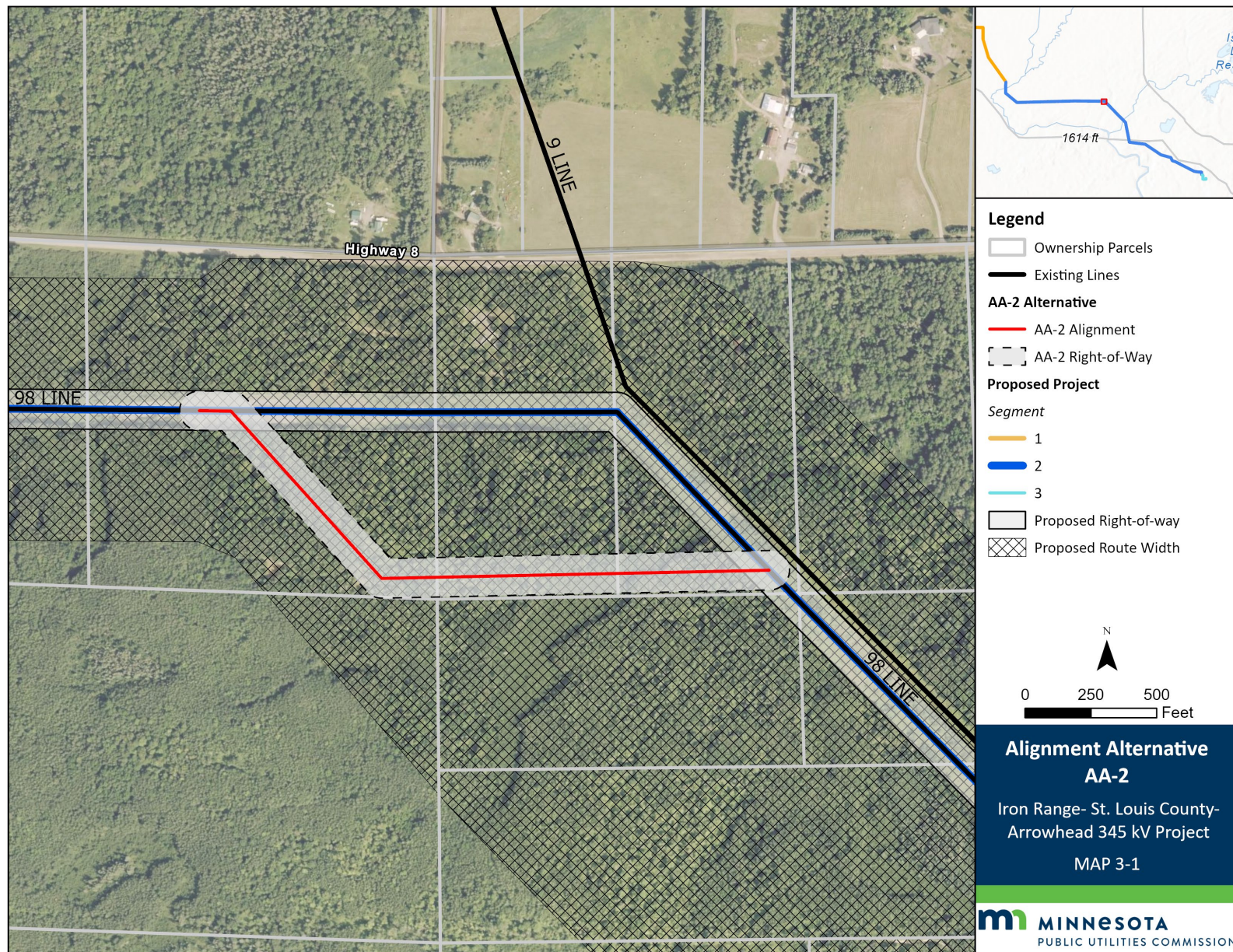


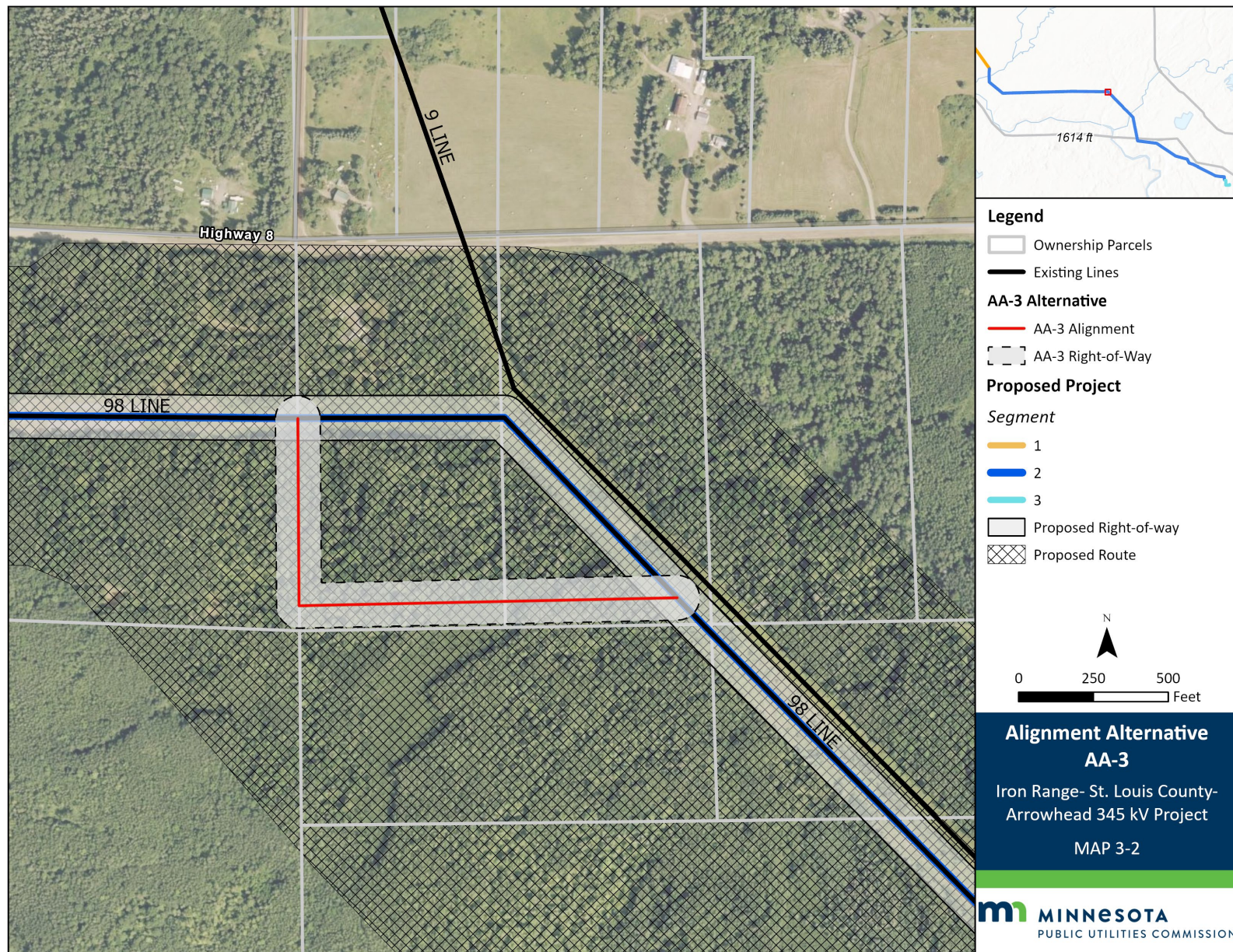


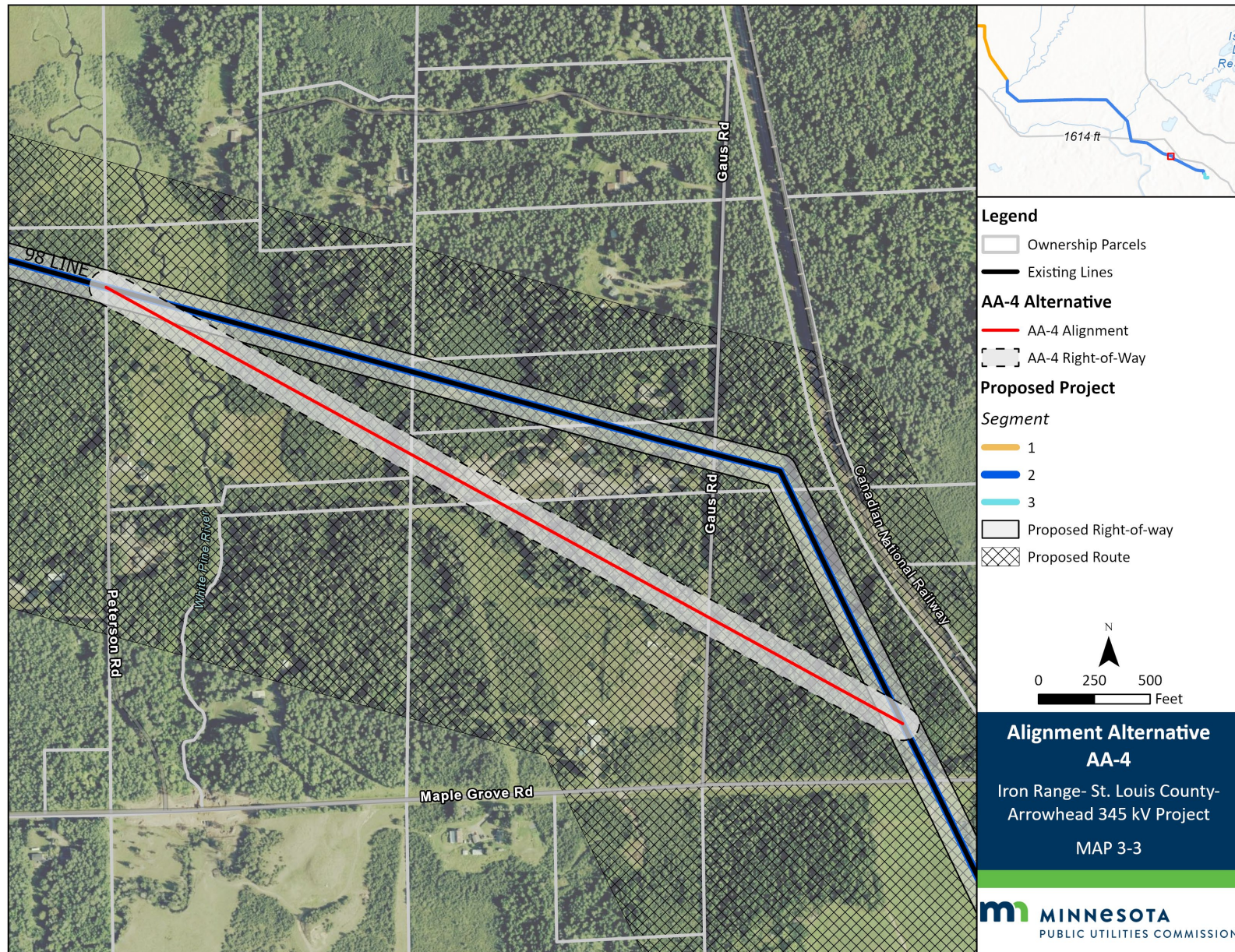


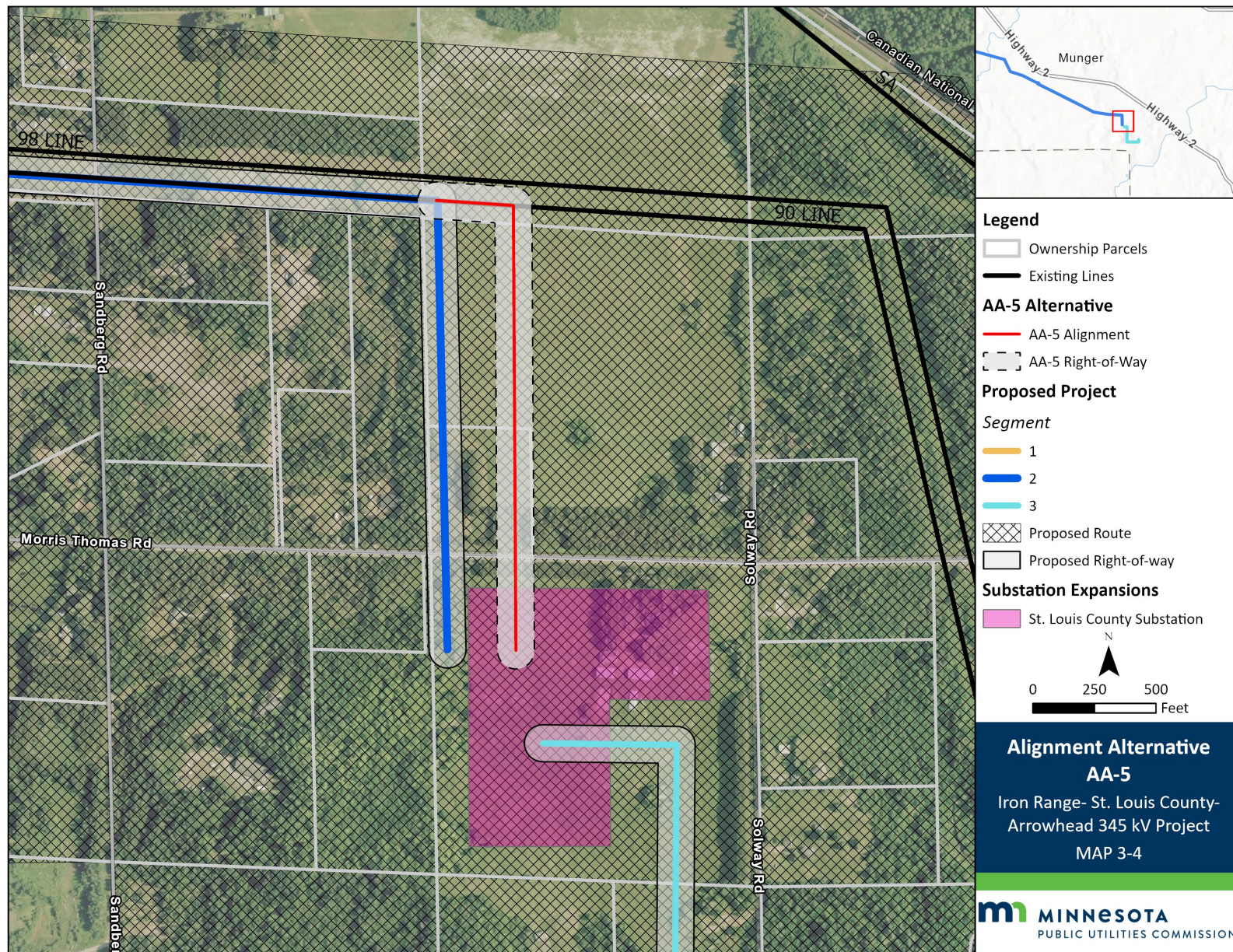


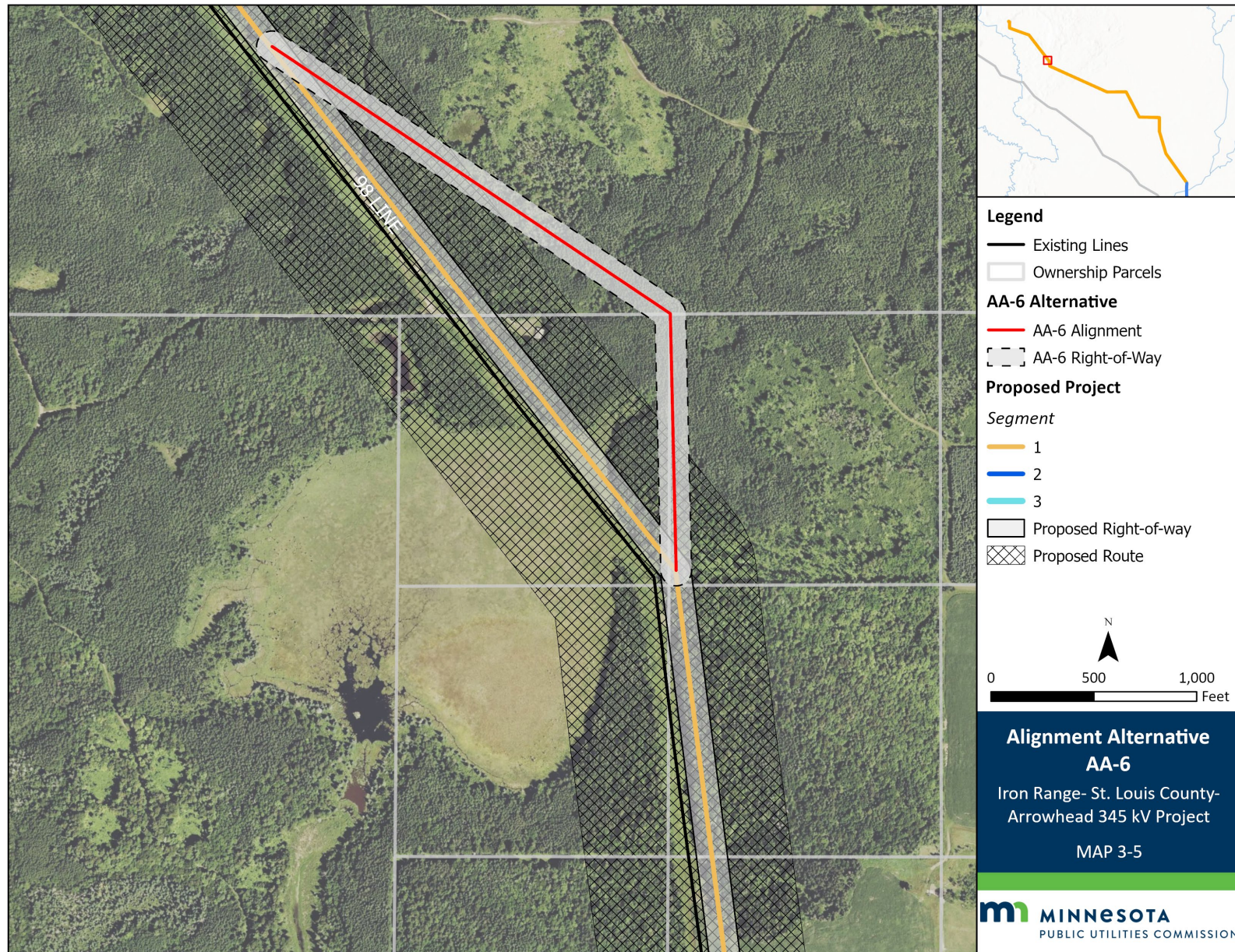


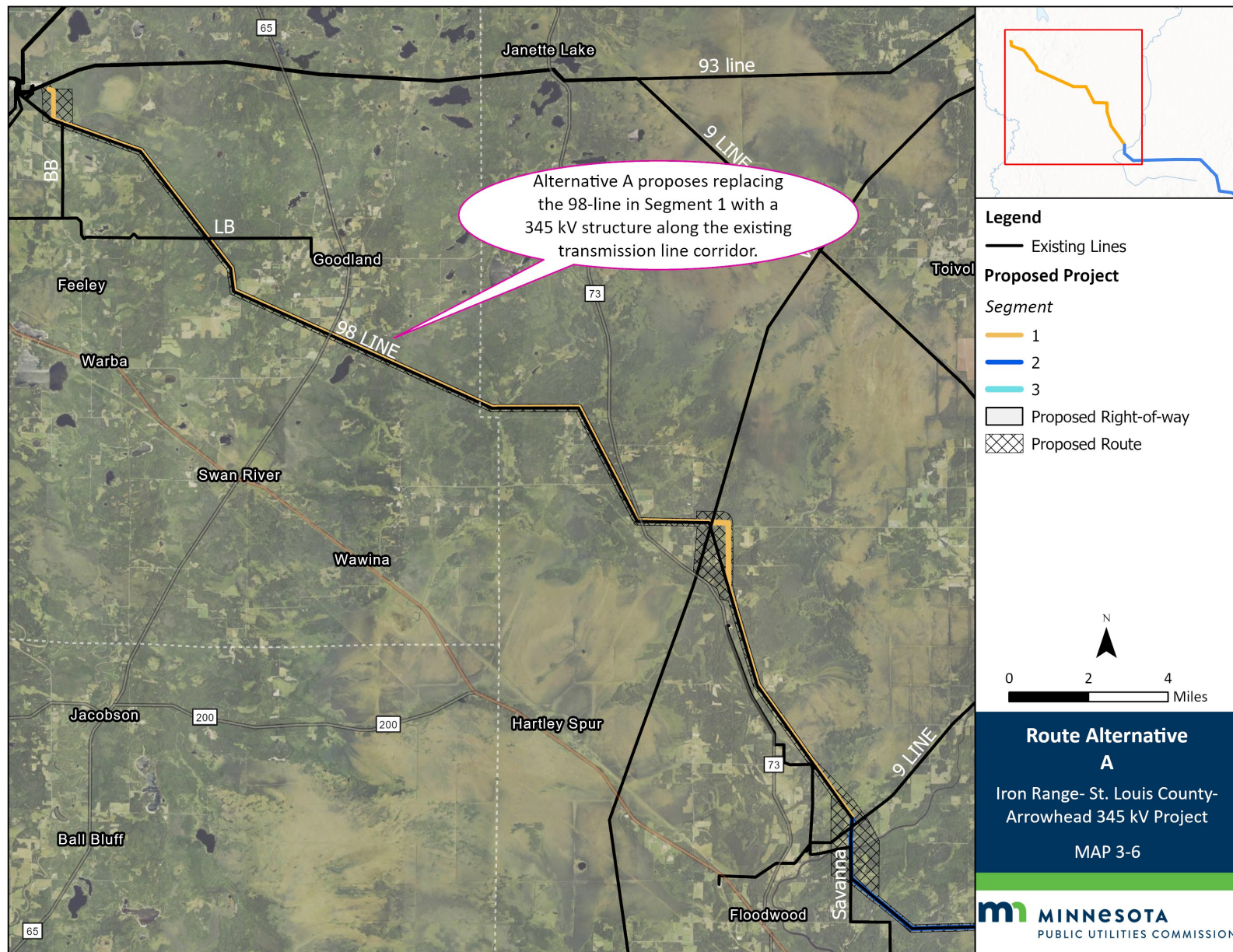


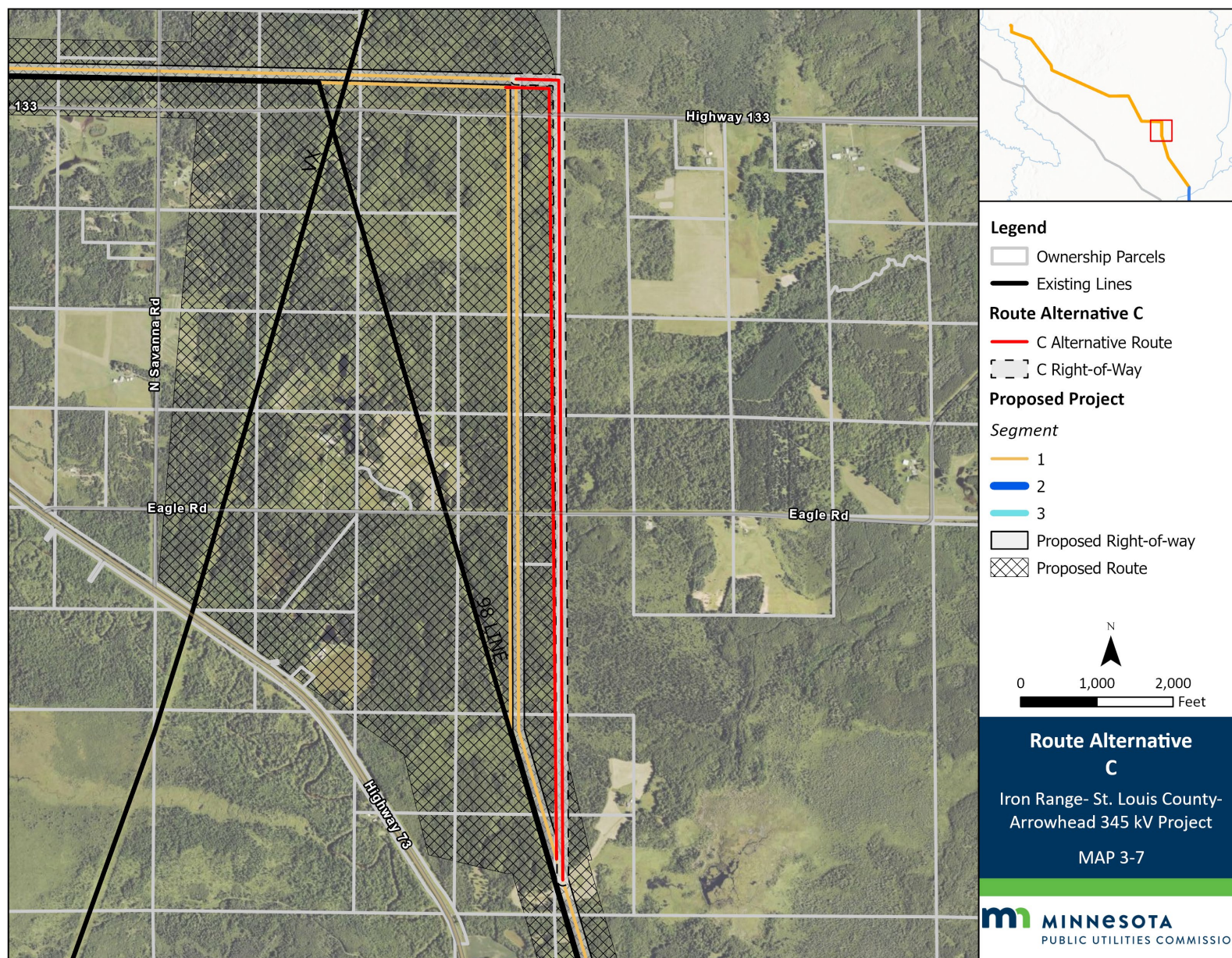












STATE OF MINNESOTA PUBLIC UTILITIES COMMISSION

**ROUTE PERMIT FOR
IRON RANGE – ST. LOUIS COUNTY – ARROWHEAD 345KV TRANSMISSION LINE PROJECT**

A HIGH-VOLTAGE TRANSMISSION LINE AND ASSOCIATED FACILITIES

**IN
ST. LOUIS AND ITASCA COUNTIES**

**ISSUED TO
MINNESOTA POWER AND AMERICAN TRANSMISSION COMPANY, LLC.**

PUC DOCKET NO. E015/TL-25-112

In accordance with the requirements of Minnesota Statutes Chapter 216I, this route permit is hereby issued to:

MINNESOTA POWER AND AMERICAN TRANSMISSION COMPANY, LLC.

Minnesota Power and American Transmission Company, LLC are authorized by this route permit to construct and operate a 67.5-mile transmission line between Minnesota Power's existing Iron Range Substation and ATC's Arrowhead Substation in Itasca and St. Louis County, Minnesota. The proposed route is located along and, in some cases, replaces existing high voltage transmission lines for approximately 92 percent of its length.

The high-voltage transmission line shall be constructed within the route identified in this route permit and in compliance with the conditions specified in this route permit.

Approved and adopted this ____ day of [Month, Year]

BY ORDER OF THE COMMISSION

Sasha Bergman,
Executive Secretary

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ATTACHMENTS

Attachment 1 – Complaint Handling Procedures for Permitted Energy Facilities

Attachment 2 – Compliance Filing Procedures for Permitted Energy Facilities

Attachment 3 – Route Permit Maps

DRAFT

1 ROUTE PERMIT

The Minnesota Public Utilities Commission (Commission) hereby issues this route permit to Minnesota Power and American Transmission Company, LLC (Permittees) pursuant to Minnesota Statutes Chapter 216I. This route permit authorizes the Permittees to construct and operate a 67.5-mile 345 kV single-circuit transmission line between Minnesota Power's existing Iron Range Substation and Arrowhead Substation in Itasca and St. Louis County, Minnesota (Iron Range – St. Louis County – Arrowhead 345kV Transmission Line Project, henceforth known as Transmission Facility). The high-voltage transmission line shall be constructed within the route identified in this route permit and in compliance with the conditions specified in this route permit.

1.1 Pre-emption

Pursuant to Minn. Stat. § 216I.18, this route permit shall be the sole route approval required for construction of the Transmission Facility. This route permit shall supersede and preempt all zoning, building, or land use rules, regulations, or ordinances promulgated by regional, county, local and special purpose governments.

2 TRANSMISSION FACILITY DESCRIPTION

Minnesota Power and American Transmission Company, LLC will jointly own the 1.5-mile double-circuit 345 kV transmission line between the St. Louis County Substation and the ATC Arrowhead Substation. ATC currently owns and will continue to own the ATC Arrowhead Substation. Minnesota Power will own the remainder of the Project including the existing Iron Range Substation and the 66-mile 345 kV high-voltage transmission line.

The Transmission Facility is located in the following:

Segment	County	Township/ Municipality Name	Township	Range	Section
1	St. Louis	Van Buren	52N	20W	6, 7, 8, 16, 17, 20, 21, 22, 27, 28
	St. Louis	Elmer	53N	20W	19, 30, 31
	St. Louis	Cedar Valley	53N	21W	4, 9, 10, 13, 14, 15, 22, 23, 24, 25, 36
	St. Louis	Unincorporated	54N	21W	31, 32, 33
	Itasca	Goodland	54N	22W	18, 19, 20, 21, 26, 27, 28, 35, 36
	Itasca	Feeley	54N	23W	2, 3, 11, 12, 13, 24
	Itasca	Unincorporated	55N	23W	19, 20, 27, 28, 29, 30, 33, 34, 35
2	St. Louis	Hermantown	50N	15W	30, 31
	St. Louis	Solway	50N	16W	17, 18, 20, 21, 22,

					25, 26, 27, 28, 36
	St. Louis	Brevator	50N	17W	2, 3, 4, 5, 9, 10, 11, 12, 13
	St. Louis	Industrial	51N	17W	18, 19, 20, 29, 32
	St. Louis	Culver	51N	18W	7, 8, 9, 10, 11, 12, 13
	St. Louis	Arrowhead	51N	19W	7, 8, 9, 10, 11, 12
	St. Louis	Floodwood	51N	20W	2, 3, 4, 11, 12
	St. Louis	Van Buren	52N	20W	27, 28, 33, 34
3	St. Louis	Hermantown	50N	15W	31
	St. Louis	Solway	50N	16W	36

2.1 Structures

The structure types as described in the Permittee's route permit application are detailed in the table below.

Line Type	Structure		Foundation	Height	Span
	Type	Material			
Single Circuit 345 kV (Double-Circuit Capable)	Monopole*	Steel	7-10 feet in diameter	120-180	800-1,000
Double-Circuit 345 kV	Monopole*	Steel	7-10 feet in diameter	120-180	800-1,000
Single-Circuit 230 kV	H-Frame	Wood	Direct embed**	65-90	700-900

* Alternative structure types may be considered based on route-specific technical considerations. These structures may include lattice towers, tubular H-frame, or tubular lattice towers instead of monopoles.

** Certain specialty or dead-end structures may be necessary. These structures may be concrete pier foundations instead of direct embed.

2.2 Conductors

Conductor types may include single-circuit lines on double-circuit capable structures with three-phase wires and two shield wires, and double-circuit structures with six phase wires and two shield wires. The phase wires will be 795 thousand circular millimeters of aluminum-conductor steel reinforced (795 ACSR) or a conductor with similar capacity.

2.3 Substations and Associated Facilities

The substations and associated facilities authorized by this Route Permit include:

- Modification of the Iron Range Substation to accommodate one additional 345 kV line entrance and associated high voltage equipment.
- Expansion of the St. Louis County Substation to accommodate three additional 345 kV line entrances and associated high voltage equipment for the Project and associated high voltage equipment.
- Expansion of the ATC Arrowhead Substation to accommodate two additional 345 kV line entrances and associated high voltage equipment.

3 DESIGNATED ROUTE

The route designated by the Commission is depicted on the route maps attached to this route permit (Designated Route). The Designated Route is generally described as follows:

[Provide detailed description of the authorized route including the route widths and any other specifics relevant to each segment.]

The Designed Route includes an anticipated alignment and a right-of-way. The right-of-way is the physical land needed for the safe operation of the transmission line. The Permittee shall locate the alignment and associated right-of-way within the Designated Route unless otherwise authorized by this route permit or the Commission. The Designated Route provides the Permittee with flexibility for minor adjustments of the alignment and right-of-way to accommodate landowner requests and unforeseen conditions.

Any modifications to the Designated Route or modifications that would result in right-of-way placement outside the Designated Route shall be specifically reviewed by the Commission in accordance with Minn. Stat. § 216I.09 and Section 10 of this route permit.

4 RIGHT-OF-WAY

This route permit authorizes the Permittee to obtain a new permanent right-of-way for the transmission line up to 150 feet in width. The permanent right-of-way is typically 75 feet on both sides of the transmission line measured from its centerline or alignment. In areas where the line is co-located, the existing right-of-way will be shared.

The anticipated alignment is intended to minimize potential impacts relative to the criteria identified in Minn. Stat. § 216I.05, subd. 11. The final alignment must generally conform to the anticipated alignment identified on the route maps unless changes are requested by individual

landowners and agreed to by the Permittee or for unforeseen conditions that are encountered or as otherwise provided for by this route permit.

Any right-of-way or alignment modifications within the Designated Route shall be located so as to have comparable overall impacts relative to the factors in Minn. Stat. § 216I.05, subd. 11, as does the right-of-way and alignment identified in this route permit and shall be specifically identified and documented in and approved as part of the plan and profile submitted pursuant to Section 9.2 of this route permit.

Where the transmission line parallels existing highway and other road rights-of-way, the transmission line right-of-way shall occupy and utilize the existing right-of-way to the maximum extent possible; consistent with the criteria in Minn. Stat. § 216I.05, subd. 11, and the other requirements of this route permit; and for highways under the jurisdiction of the Minnesota Department of Transportation (MnDOT), the procedures for accommodating utilities in trunk highway rights-of-way.

5 GENERAL CONDITIONS

The Permittee shall comply with the following conditions during construction and operation of the Transmission Facility over the life of this route permit.

5.1 Route Permit Distribution

Within 30 days of issuance of this route permit, the Permittee shall provide all affected landowners with a copy of this route permit and the complaint procedures. An affected landowner is any landowner or designee that is within or adjacent to the Designated Route. In no case shall a landowner receive this route permit and complaint procedures less than five days prior to the start of construction on their property. The Permittee shall also provide a copy of this route permit and the complaint procedures to the applicable regional development commissions, county environmental offices, and city and township clerks. The Permittee shall file with the Commission an affidavit of its route permit and complaint procedures distribution within 30 days of issuance of this route permit.

5.2 Access to Property

The Permittee shall notify landowners prior to entering or conducting maintenance within their property, unless otherwise negotiated with the landowner. The Permittee shall keep records of compliance with this section and provide them upon the request of Commission staff.

5.3 Construction and Operation Practices

The Permittee shall comply with the construction practices, operation and maintenance

practices, and material specifications described in the permitting record for this Transmission Facility unless this route permit establishes a different requirement in which case this route permit shall prevail.

5.3.1 Field Representative

The Permittee shall designate a field representative responsible for overseeing compliance with the conditions of this route permit during construction of the Transmission Facility. This person shall be accessible by telephone or other means during normal business hours throughout site preparation, construction, cleanup, and restoration.

The Permittee shall file with the Commission the name, address, email, phone number, and emergency phone number of the field representative at least 14 days prior to the pre-construction meeting. The Permittee shall provide the field representative's contact information to affected landowners, local government units and other interested persons at least 14 days prior to the pre-construction meeting. The Permittee may change the field representative at any time upon notice to the Commission, affected landowners, local government units and other interested persons. The Permittee shall file with the Commission an affidavit of distribution of its field representative's contact information at least 14 days prior to the pre-construction meeting and upon changes to the field representative.

5.3.2 Employee Training

The Permittee shall train all employees, contractors, and other persons involved in the Transmission Facility construction regarding the terms and conditions of this route permit. The Permittee shall keep records of compliance with this section and provide them upon the request of Commission staff.

5.3.3 Independent Third-Party Monitoring

Prior to any construction, the Permittee shall propose a scope of work and identify an independent third-party monitor to conduct Project construction monitoring on behalf of the Commission. The scope of work shall be developed in consultation with and approved by Commission staff. This third-party monitor will report directly to and will be under the control of the Commission with costs borne by the Permittee.

The Permittee shall file with the Commission the approved scope of work and the name, address, email, and telephone number of the third party-monitor at least 14 days prior to commencing any construction or right-of-way preparation and upon any change in contact information that may occur during Project construction and restoration of the right-of-way.

The Permittee shall keep records of compliance with this section and ensure that status reports

detailing the construction monitoring are filed with the Commission in accordance with the approved scope of work.

5.3.4 Public Services, Public Utilities, and Existing Easements

During Transmission Facility construction, the Permittee shall minimize any disruption to public services or public utilities. To the extent disruptions to public services or public utilities occur these shall be temporary, and the Permittee shall restore service promptly. Where any impacts to utilities have the potential to occur the Permittee shall work with both landowners and local entities to determine the most appropriate mitigation measures if not already considered as part of this route permit.

The Permittee shall coordinate with county and city road authorities to develop appropriate signage and traffic management during construction. The Permittee shall keep records of compliance with this section and provide them upon the request of Commission staff.

5.3.5 Temporary Workspace

The Permittee shall limit temporary easements to special construction access needs and additional staging or lay-down areas required outside of the authorized right-of-way. Temporary space shall be selected to limit the removal and impacts to vegetation. The Permittee shall obtain temporary easements outside of the authorized transmission line right-of-way from affected landowners through rental or lease agreements. Temporary easements are not provided for in this route permit.

The Permittee may construct temporary driveways between roadways and transmission structures to minimize impacts by using the shortest route feasible. The Permittee shall use construction mats to minimize impacts on access paths and construction areas. The Permittee shall submit the location of temporary workspaces and driveways with the plan and profile pursuant to Section 9.2.

5.3.6 Noise

The Permittee shall comply with noise standards established under Minn. R. 7030.0010 to 7030.0080. The Permittee shall limit construction and maintenance activities to daytime working hours to the extent practicable.

5.3.7 Aesthetics

The Permittee shall consider input pertaining to visual impacts from landowners or land management agencies prior to final location of structures, rights-of-way, and other areas with the potential for visual disturbance. The Permittee shall use care to preserve the natural

landscape, minimize tree removal and prevent any unnecessary destruction of the natural surroundings in the vicinity of the Transmission Facility during construction and maintenance. The Permittee shall work with landowners to locate the high-voltage transmission line to minimize the loss of agricultural land, forest, and wetlands, and to avoid homes and farmsteads. The Permittee shall place structures at a distance, consistent with sound engineering principles and system reliability criteria, from intersecting roads, highways, or trail crossings.

5.3.8 Soil Erosion and Sediment Control

The Permittee shall implement those erosion prevention and sediment control practices recommended by the Minnesota Pollution Control Agency (MPCA) Construction Stormwater Program. If construction of the Transmission Facility disturbs more than one acre of land or is sited in an area designated by the MPCA as having potential for impacts to water resources, the Permittee shall obtain a National Pollutant Discharge Elimination System/State Disposal System Construction Stormwater Permit from the MPCA that provides for development of a Stormwater Pollution Prevention Plan that describes methods to control erosion and runoff.

The Permittee shall implement reasonable measures to minimize erosion and sedimentation during construction and shall employ perimeter sediment controls, protect exposed soil by promptly planting, seeding, using erosion control blankets and turf reinforcement mats, stabilizing slopes, protecting storm drain inlets, protecting soil stockpiles, and controlling vehicle tracking. Contours shall be graded as required so that all surfaces provide for proper drainage, blend with the natural terrain, and are left in a condition that will facilitate re-vegetation and prevent erosion. All areas disturbed during construction of the Transmission Facility shall be returned to pre-construction conditions.

5.3.9 Wetlands and Water Resources

The Permittee shall develop wetland impact avoidance measures and implement them during construction of the Transmission Facility. Measures shall include spacing and placing transmission structures at variable distances to span and avoid wetlands, watercourses, and floodplains. Unavoidable wetland impacts as a result of the placement of structures shall be limited to the immediate area around the structures. To minimize impacts, the Permittee shall construct in wetland areas during frozen ground conditions where practicable and according to permit requirements by the applicable permitting authority. When construction during winter is not possible, the Permittee shall use wooden or composite mats to protect wetland vegetation.

The Permittee shall contain soil excavated from the wetlands and riparian areas and not place it back into the wetland or riparian area. The Permittee shall access wetlands and riparian areas using the shortest route possible in order to minimize travel through wetland areas and prevent

unnecessary impacts. The Permittee shall not place staging or stringing set up areas within or adjacent to wetlands or water resources, as practicable. The Permittee shall assemble structures on upland areas before they are brought to the site for installation.

The Permittee shall restore wetland and water resource areas disturbed by construction activities to pre-construction conditions in accordance with the requirements of applicable state and federal permits or laws and landowner agreements. The Permittee shall meet the U.S. Army Corps of Engineers (USACE), Minnesota Department of Natural Resources (DNR), Minnesota Board of Water and Soil Resources, and local units of government wetland and water resource requirements.

5.3.10 Vegetation Management

The Permittee shall minimize the number of trees to be removed in selecting the right-of-way specifically preserving to the maximum extent practicable windbreaks, shelterbelts, living snow fences, and vegetation in areas such as trail and stream crossings where vegetative screening may minimize aesthetic impacts, to the extent that such actions do not violate sound engineering principles or system reliability criteria.

The Permittee shall remove tall growing species located within the transmission line right-of-way that endanger the safe and reliable operation of the transmission line. The Permittee shall leave undisturbed, to the extent possible, existing low growing species in the right-of-way or replant such species in the right-of-way to blend the difference between the right-of-way and adjacent areas, to the extent that the low growing vegetation will not pose a threat to the transmission line or impede construction.

The Permittees shall develop a vegetation management plan (VMP), in coordination with the Vegetation Management Plan Working Group (VMPWG), using best management practices established by the DNR and BWSR. The Permittee shall file the VMP and documentation of the coordination efforts between the Permittee and the DNR with the Commission as part of the plan and profile required in Section 9.2 of the Permit.

5.3.11 Application of Pesticides

The Permittee shall restrict pesticide use to those pesticides and methods of application approved by the Minnesota Department of Agriculture (MDA), DNR, and the U.S. Environmental Protection Agency (EPA). Selective foliage or basal application shall be used when practicable. All pesticides shall be applied in a safe and cautious manner so as not to damage adjacent properties including crops, orchards, tree farms, apiaries, or gardens. The Permittee shall contact the landowner at least 14 days prior to pesticide application on their

property. The Permittee may not apply any pesticide if the landowner requests that there be no application of pesticides within the landowner's property. The Permittee shall provide notice of pesticide application to landowners and beekeepers operating known apiaries within three miles of the pesticide application area at least 14 days prior to such application. The Permittee shall use the MDA's Apiary Registry (<https://mn.beecheck.org/map>) to identify known apiaries for purposes of compliance with this condition. The Permittee shall keep pesticide communication and application records and provide them upon the request of Commission staff.

5.3.12 Invasive Species

The Permittee shall employ best management practices to avoid the potential introduction and spread of invasive species on lands disturbed by Transmission Facility construction activities. The Permittee shall develop an Invasive Species Prevention Plan and file it with the Commission at least 14 days prior to the pre-construction meeting. The Permittee shall comply with the most recently filed Invasive Species Prevention Plan.

5.3.13 Noxious Weeds

The Permittee shall take all reasonable precautions against the spread of noxious weeds during all phases of construction. When utilizing seed to establish temporary and permanent vegetative cover on exposed soil the Permittee shall select site appropriate seed certified to be free of noxious weeds. To the extent possible, the Permittee shall use native seed mixes. The Permittee shall keep records of compliance with this section and provide them upon the request of Commission staff.

5.3.14 Roads

The Permittee shall advise the appropriate governing bodies having jurisdiction over all state, county, city, or township roads that will be used during the construction phase of the Transmission Facility. Where practical, existing roadways shall be used for all activities associated with construction of the Transmission Facility. Oversize or overweight loads associated with the Transmission Facility shall not be hauled across public roads without required permits and approvals.

The Permittee shall construct the fewest number of site access roads required. Access roads shall not be constructed across streams and drainage ways without the required permits and approvals. Access roads shall be constructed in accordance with all necessary township, county or state road requirements and permits.

The Permittee shall promptly repair private roads or lanes damaged when moving equipment or when accessing construction workspace, unless otherwise negotiated with the affected landowner.

5.3.15 Archaeological and Historic Resources

The Permittee shall make every effort to avoid impacts to archaeological and historic resources when constructing the Transmission Facility. In the event that a resource is encountered, the Permittee shall consult with the State Historic Preservation Office and the State Archaeologist. Where feasible, avoidance of the resource is required. Where not feasible, mitigation must include an effort to minimize Transmission Facility impacts on the resource consistent with State Historic Preservation Office and State Archaeologist requirements.

The Permittee shall develop an Unanticipated Discoveries Plan (UDP) to identify guidelines to be used in the event previously unrecorded archeological or historic properties, or human remains, are encountered during construction, or if unanticipated effects to previously identified archaeological or historic properties occur during construction. The UDP is in addition to and not in lieu of any other obligations that may exist under law or regulation relating to these matters. The Permittee shall file the UDP with the Commission at least 14 days prior to the preconstruction meeting.

The Permittee shall train workers about the need to avoid cultural properties, how to identify cultural properties, and procedures to follow if undocumented cultural properties, including gravesites, are found during construction. If human remains are encountered during construction, the Permittee shall, in accordance with Minn. Stat. Ch. 307 (Private Cemeteries Act), immediately halt construction and promptly notify local law enforcement and the State Archaeologist. The Permittee shall not resume construction at such location until authorized by local law enforcement or the State Archaeologist. The Permittee shall keep records of compliance with this section and provide them upon the request of Commission staff.

5.3.16 Avian Protection

The Permittee in cooperation with the DNR shall identify areas of the transmission line where bird flight diverters will be incorporated into the transmission line design to prevent large avian collisions attributed to visibility issues. Standard transmission design shall incorporate adequate spacing of conductors and grounding devices in accordance with Avian Power Line Interaction Committee standards to eliminate the risk of electrocution to raptors with larger wingspans that may simultaneously come in contact with a conductor and grounding devices. The Permittee shall submit documentation of its avian protection coordination with the plan and profile pursuant to Section 9.2.

5.3.17 Drainage Tiles

The Permittee shall avoid, promptly repair, or replace all drainage tiles broken or damaged during all phases of the Transmission Facility's life. The Permittee shall keep records of compliance with this section and provide them upon the request of Commission staff.

5.3.18 Restoration

The Permittee shall restore the right-of-way, temporary workspaces, access roads, abandoned right-of-way, and other public or private lands affected by construction of the Transmission Facility. Restoration within the right-of-way must be compatible with the safe operation, maintenance, and inspection of the transmission line. Within 60 days after completion of all restoration activities, the Permittee shall file with the Commission a Notice of Restoration Completion.

5.3.19 Cleanup

The Permittee shall remove and properly dispose of all construction waste and scrap from the right-of-way and all premises on which construction activities were conducted upon completion of each task. The Permittee shall remove and properly dispose of all personal litter, including bottles, cans, and paper from construction activities daily.

5.3.20 Pollution and Hazardous Wastes

The Permittee shall take all appropriate precautions to protect against pollution of the environment. The Permittee shall be responsible for compliance with all laws applicable to the generation, storage, transportation, clean up and disposal of all waste generated during construction and restoration of the Transmission Facility.

5.3.21 Damages

The Permittee shall fairly restore or compensate landowners for damage to crops, fences, private roads and lanes, landscaping, drain tile, or other damages sustained during construction. The Permittee shall keep records of compliance with this section and provide them upon the request of Commission staff.

5.3.22 Facility Lighting

The Permittee shall use shielded and downward facing lighting and LED lighting that minimizes blue hue.

5.3.23 Dust Control

The Permittee shall utilize non-chloride products for onsite dust control during construction.

5.3.24 Wildlife Friendly Erosion Control

The Permittee shall use only “bio-netting” or “natural netting” types of erosion control materials and mulch products without synthetic (plastic) fiber additives or malachite green dye.

5.4 Electrical Performance Standards

5.4.1 Grounding

The Permittee shall design, construct, and operate the transmission line in a manner so that the maximum induced steady-state short-circuit current shall be limited to five milliamperes root mean square (rms) alternating current between the ground and any non-stationary object within the right-of-way, including but not limited to large motor vehicles and agricultural equipment. All fixed metallic objects on or off the right-of-way, except electric fences that parallel or cross the right-of-way, shall be grounded to the extent necessary to limit the induced short-circuit current between ground and the object so as not to exceed one milliamperes rms under steady state conditions of the transmission line and to comply with the ground fault conditions specified in the National Electric Safety Code. The Permittee shall address and rectify any induced current problems that arise during transmission line operation.

5.4.2 Electric Field

The Permittee shall design, construct, and operate the transmission line in such a manner that the electric field measured one meter above ground level immediately below the transmission line shall not exceed 8.0 kV/m rms.

5.4.3 Interference with Communication Devices

If interference with radio or television, satellite, wireless internet, GPS-based agriculture navigation systems or other communication devices is caused by the presence or operation of the Transmission Facility, the Permittee shall take whatever action is necessary to restore or

provide reception equivalent to reception levels in the immediate area just prior to the construction of the Transmission Facility. The Permittee shall keep records of compliance with this section and provide them upon the request of Commission staff.

5.5 Other Requirements

5.5.1 Safety Codes and Design Requirements

The Permittee shall design the transmission line and associated facilities to meet or exceed all relevant local and state codes, the National Electric Safety Code, and North American Electric Reliability Corporation requirements. This includes standards relating to clearances to ground, clearance to crossing utilities, clearance to buildings, strength of materials, clearances over roadways, right-of-way widths, and permit requirements.

5.5.2 Other Permits and Regulations

The Permittee shall comply with all applicable state statutes and rules. The Permittee shall obtain all required permits for the Transmission Facility and comply with the conditions of those permits unless those permits conflict with or are preempted by federal or state permits and regulations.

At least 14 days prior to the pre-construction meeting, the Permittee shall file with the Commission an Other Permits and Regulations Submittal that contains a detailed status of all permits, authorizations, and approvals that have been applied for specific to the Transmission Facility. The Other Permits and Regulations Submittal shall also include the permitting agency name; the name of the permit, authorization, or approval being sought; contact person and contact information for the permitting agency or authority; brief description of why the permit, authorization, or approval is needed; application submittal date; and the date the permit, authorization, or approval was issued or is anticipated to be issued.

The Permittee shall demonstrate that it has obtained all necessary permits, authorizations, and approvals by filing an affidavit stating as such and an updated Other Permits and Regulations Submittal prior to commencing construction. The Permittee shall provide a copy of any such permits, authorizations, and approvals at the request of Commission staff.

6 SPECIAL CONDITIONS

The special conditions shall take precedence over other conditions of this permit should there be a conflict.

6.1 Tree Replacement Plan

The Permittee shall, in coordination with affected landowners, the DNR, and the affected counties, develop a tree replacement plan to replace any trees that are removed for the construction of the Project and file the plan with the Commission at least 14 days before the pre-construction meeting. Replacement plantings may be new seedling or sapling trees. Replacement plantings may occur on public or private lands with the permission of the landowner or public entity and shall be prioritized within the county where the project is located. At least 45 days prior to the pre-construction meeting, the Permittee shall make a tree replacement plan compliance filing including the estimated cost of the plan.

The tree replacement plan may include an alternative proposal to fund tree replacements through DNR Forestry Programs or other similar public programs.

6.2 Aquatic Management Areas and Trout Streams

The permittee shall avoid placing infrastructure in aquatic management areas (AMAs) and avoid additional trout stream crossings, as practicable. If avoidance is not possible, the permittee shall minimize additional right-of-way in these areas. The permittee shall develop site-specific plans for each trout stream crossing in coordination with DNR staff to restore and revegetate floodplain habitat to the greatest extent feasible. Restoration within the right-of-way near trout streams, their tributaries, and AMAs must be coordinated with the DNR to ensure that restoration in these areas provides adequate resource protection.

6.3 State Managed Natural Resources

The Permittee shall file with the Commission concurrent with submittal of the plan and profile required in Section 9.2 of this permit, documentation of coordination with the DNR to identify those areas of the Designated Route that contain rare natural communities or state managed resources as determined by the DNR.

6.4 Trails

The permittee shall coordinate with the DNR, snowmobile associations, and any local trail organizations regarding any impacts to trails, such as temporary closures, from Project construction and maintenance.

6.5 Tree Clearing Timing

In accordance with applicable U.S. Fish and Wildlife Service guidance and requirements, the Permittees shall restrict the timing of tree clearing activities to periods outside of the summer occupancy period for Northern Long-eared Bat (April 15 – September 30) to avoid and/or minimize potential impacts to protected bat species, including the Northern Long-Eared Bat.

6.6 State-Listed Species

Prior to the start of construction, the Permittee shall resubmit a Natural Heritage Review and continue to consult with the MDNR regarding implementation of avoidance measures for state

listed threatened and endangered species. The Permittee will comply with applicable Minnesota Department of Natural Resources requirements related to state-listed endangered and threatened species in accordance with Minnesota's Endangered Species Statute (Minnesota Statutes, section 84.0895) and associated Rules (Minnesota Rules, parts 6212.1800 to 6212.2300 and 6134). The Permittee shall keep records of compliance with this section and provide them upon the request of Commission staff.

6.7 St. Louis County Lands and Minerals Department

The permittee shall coordinate with the St. Louis County Lands and Minerals Department regarding any impacts to county managed lands.

6.8 Snow Traps

The permittee shall coordinate with MnDOT's Blowing Snow Control team regarding any impacts to the active snow trap located along trunk highway 65.

6.9 Dust Control for Unpaved Roads

The permittee shall utilize dust control methods on unpaved roads near residences that are used for construction and operation of the project.

6.10 Noise Notification for Adjacent Residences

The Permittee shall provide notice to adjacent residences detailing when major noise-producing construction activities are planned to occur. The Permittee shall maintain a webpage identifying days, times, and areas where construction crews will be doing construction. The Permittee shall provide all neighboring landowners and the township a link to the website prior to construction and shall update the website frequently during construction to keep landowners informed where work will be occurring.

6.11 Noise Study and Monitoring

The Permittee shall file a proposed methodology for conducting a post-construction noise study in Segment 3 at least 14 days prior to the pre-construction meeting. The Permittee shall develop the post-construction noise study methodology in consultation with Commission staff. The Permittee must conduct the postconstruction noise study and file with the Commission the completed post-construction noise study within 18 months of commencing commercial operation.

The substation facilities and associated facilities shall be constructed and operated such that the Permittee shall, at all times, comply with noise standards established by the MPCA. Operation of the facilities shall be modified, or project components shall be removed from service if necessary to comply with these noise standards.

7 DELAY IN CONSTRUCTION

If the Permittee has not commenced construction or improvement of the route within four years after the date of issuance of this route permit the Permittee shall file a Failure to Construct Report and the Commission shall consider suspension of this route permit in accordance with Minn. Stat. § 216I.24.

8 COMPLAINT PROCEDURES

At least 14 days prior to the pre-construction meeting, the Permittee shall file with the Commission the complaint procedures that will be used to receive and respond to complaints. The complaint procedures shall be in accordance with the requirements of Minn. R. 7829.1500 or Minn. R. 7829.1700, and as set forth in the complaint procedures attached to this route permit.

Upon request, the Permittee shall assist Commission staff with the disposition of unresolved or longstanding complaints. This assistance shall include, but is not limited to, the submittal of complaint correspondence and complaint resolution efforts.

9 COMPLIANCE REQUIREMENTS

Failure to timely and properly make compliance filings required by this route permit is a failure to comply with the conditions of this route permit. Compliance filings must be electronically filed with the Commission.

9.1 Pre-Construction Meeting

Prior to the start of construction, the Permittee shall participate in a pre-construction meeting with Commission staff to review pre-construction filing requirements, scheduling, and to coordinate monitoring of construction and site restoration activities. Within 14 days following the pre-construction meeting, the Permittee shall file with the Commission a summary of the topics reviewed and discussed and a list of attendees. The Permittee shall indicate in the filing the anticipated construction start date.

9.2 Plan and Profile

At least 14 days prior to the pre-construction meeting, the Permittee shall file with the Commission, and provide the counties where the Transmission Facility, or portion of the Transmission Facility, will be constructed with a plan and profile of the right-of-way and the specifications and drawings for right-of-way preparation, construction, structure specifications and locations, cleanup, and restoration for the Transmission Facility. The documentation shall include maps depicting the plan and profile including the right-of-way, alignment, and

structures in relation to the route and alignment approved by this route permit.

The Permittee may not commence construction until the earlier of (i) 30 days after the pre-construction meeting or (ii) until the Commission staff has notified the Permittee in writing that it has completed its review of the documents and determined that the planned construction is consistent with this route permit.

If the Commission notifies the Permittee in writing within 30 days after the pre-construction meeting that it has completed its review of the documents and planned construction, and finds that the planned construction is not consistent with this route permit, the Permittee may submit additional and/or revised documentation and may not commence construction until the Commission has notified the Permittee in writing that it has determined that the planned construction is consistent with this route permit.

If the Permittee intends to make any significant changes in its plan and profile or the specifications and drawings after submission to the Commission, the Permittee shall notify the Commission and county staff at least five days before implementing the changes. No changes shall be made that would be in violation of any of the terms of this route permit.

9.3 Status Reports

The Permittee shall file with the Commission monthly Construction Status Reports beginning with the pre-construction meeting and until completion of restoration. Construction Status Reports shall describe construction activities and progress, activities undertaken in compliance with this route permit, and shall include text and photographs.

If the Permittee does not commence construction of the Transmission Facility within six months of this route permit issuance, the Permittee shall file with the Commission Pre-Construction Status Reports on the anticipated timing of construction every six months beginning with the issuance of this route permit until the pre-construction meeting. The Status Reports shall include information on the Project's Midcontinent Independent System Operator (MISO) interconnection process, if applicable.

9.4 Labor Statistic Reporting

The Permittee shall file quarterly Labor Statistic Reports with the Commission within 45 days of the end of the quarter regarding construction workers that participated in the construction of the Project. The Labor Statistic Reports shall:

- A. detail the Permittee's efforts and the site contractor's efforts to hire Minnesota workers; and

B. provide an account of:

- 1) the gross number of hours worked by or full-time equivalent workers who are Minnesota residents, as defined in Minn. Stat. § 290.01, subd. 7;
- 2) the gross number of hours worked by or full-time equivalent workers who are residents of other states, but maintain a permanent residence within 150 miles of the Project; and
- 3) the total gross hours worked or total full-time equivalent workers.

The Permittee shall work with its contractor to determine the suitable reporting metric. The report may not include personally identifiable data.

9.5 Prevailing Wage

The Permittee, its contractors, and subcontractors shall (1) pay no less than the prevailing wage rate as defined in Minn. Stat. § 177.42; and (2) shall be subject to the requirements and enforcement provisions under Minn. Stat. §§ 177.27, 177.30, 177.32, 177.41 to 177.435, and 177.45. The Permittee shall keep records of contractor and subcontractor pay and provide them at the request of Commission staff.

9.6 In-Service Date

At least three days before the Transmission Facility is to be placed into service, the Permittee shall notify the Commission of the date on which the Transmission Facility will be placed into service and the date on which construction was completed.

9.7 As-Builts

Within 90 days after completion of construction, the Permittee shall submit to the Commission copies of all final as-built plans and specifications developed during the Transmission Facility construction.

9.8 GPS Data

Within 90 days after completion of construction, the Permittee shall submit to the Commission, in the format requested by the Commission, geo-spatial information (*e.g.*, ArcGIS compatible map files, GPS coordinates, associated database of characteristics) for all structures associated with the Transmission Facility and each substation connected.

9.9 Right of Entry

The Permittee shall allow Commission designated representatives to perform the following, upon reasonable notice, upon presentation of credentials and at all times in compliance with the Permittee's site safety standards:

- A. To enter upon the facilities easement of the property for the purpose of obtaining information, examining records, and conducting surveys or investigations.
- B. To bring such equipment upon the facilities easement of the property as is necessary to conduct such surveys and investigations.
- C. To sample and monitor upon the facilities easement of the property.
- D. To examine and copy any documents pertaining to compliance with the conditions of this route permit.

10 ROUTE PERMIT AMENDMENT

The Commission has the authority to modify this route permit at any time. The Permittee may request an amendment of the conditions of this route permit by submitting a request to the Commission in writing describing the amendment sought and the reasons for the amendment. The Commission may amend the conditions after affording the Permittee and interested persons such process as is required under Minn. Stat. § 216I.09.

11 TRANSFER OF ROUTE PERMIT

The Permittee may request at any time that the Commission transfer this route permit to another person or entity (transferee). In its request, the Permittee must provide the Commission with:

- A. the name and description of the transferee;
- B. the reasons for the transfer;
- C. a description of the facilities affected; and
- D. the proposed effective date of the transfer.

The transferee must provide the Commission with a certification that it has read, understands and is able to comply with the plans and procedures filed for the Transmission Facility and all conditions of this route permit. The Commission may authorize transfer of the route permit after affording the Permittee, the transferee, and interested persons such process as is required under Minn. Stat. § 216I.13.

12 REVOCATION OR SUSPENSION OF ROUTE PERMIT

The Commission may initiate action to revoke or suspend this route permit at any time. The Commission shall act in accordance with the requirements of Minn. Stat. § 216I.24, to revoke or suspend this route permit.

DRAFT

CERTIFICATE OF SERVICE

I, Robin Benson, hereby certify that I have this day, served a true and correct copy of the following document to all persons at the addresses indicated below or on the attached list by electronic filing, electronic mail, courier, interoffice mail or by depositing the same enveloped with postage paid in the United States mail at St. Paul, Minnesota.

Minnesota Public Utilities Commission ORDER

Docket Numbers: **E-015/CN-25-111; E-015/TL-25-112**

Dated this **1st** day of **July, 2026**

/s/ Robin Benson

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3	Sasha	Bergman	sasha.bergman@state.mn.us		Public Utilities Commission	121 7th Pl E Ste 350 St. Paul MN, 55101 United States	Electronic Service		Yes	25-111 Official CC Service List
4	Matthew	Brodin	mbrodin@allete.com	Minnesota Power		30 West Superior Street Duluth MN, 55802 United States	Electronic Service		No	25-111 Official CC Service List
5	Mike	Bull	mike.bull@state.mn.us		Public Utilities Commission	121 7th Place East, Suite 350 St. Paul MN, 55101 United States	Electronic Service		Yes	25-111 Official CC Service List
6	Jennifer	Cady	jjcady@mnpower.com	Minnesota Power		30 W Superior St Duluth MN, 55802 United States	Electronic Service		No	25-111 Official CC Service List
7	James	Canaday	james.canaday@ag.state.mn.us		Office of the Attorney General - Residential Utilities Division	Suite 1400 445 Minnesota St. St. Paul MN, 55101 United States	Electronic Service		No	25-111 Official CC Service List
8	Christopher	Cerny	ccerny@winthrop.com	Winthrop & Weinstine, P.A.			Electronic Service		No	25-111 Official CC Service List
9	Cody	Chilson	cchilson@greatermngas.com	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC		1900 Cardinal Ln PO Box 798 Faribault MN, 55021 United States	Electronic Service		No	25-111 Official CC Service List
10	Ray	Choquette	rchoquette@agp.com	Ag Processing Inc.		12700 West Dodge Road PO Box 2047 Omaha NE, 68103-2047 United States	Paper Service		No	25-111 Official CC Service List
11	John	Coffman	john@johncoffman.net	AARP		871 Tuxedo Blvd. St, Louis MO, 63119-2044 United States	Electronic Service		No	25-111 Official CC Service List
12	Generic	Commerce Attorneys	commerce.attorneys@ag.state.mn.us		Office of the Attorney	445 Minnesota	Electronic Service		Yes	25-111 Official

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14	George	Crocker	gw illc@haw o.org	North American Water Office		5093 Keats Avenue Lake Elmo MN, 55042 United States	Electronic Service		No	25-111 Official CC Service List
15	Jackson	Evans	jjevans@allete.com	Minnesota Power		30 West Superior Street Duluth MN, 55802 United States	Electronic Service		No	25-111 Official CC Service List
16	John	Farrell	jfarrell@ilsr.org	Institute for Local Self-Reliance		2720 E. 22nd St Institute for Local Self-Reliance Minneapolis MN, 55406 United States	Electronic Service		No	25-111 Official CC Service List
17	Eric	Fehlhaber	efehlhaber@dakotaelectric.com	Dakota Electric Association		4300 220th St W Farmington MN, 55024 United States	Electronic Service		No	25-111 Official CC Service List
18	Sharon	Ferguson	sharon.ferguson@state.mn.us		Department of Commerce	85 7th Place E Ste 280 Saint Paul MN, 55101-2198 United States	Electronic Service		No	25-111 Official CC Service List
19	Daryll	Fuentes	energy@usg.com	USG Corporation		550 W Adams St Chicago IL, 60661 United States	Electronic Service		No	25-111 Official CC Service List
20	Zachary	Golkow ski	zgolkow ski@mpow er.com	Minnesota Power		30 W. Superior Street Duluth MN, 55802 United States	Electronic Service		No	25-111 Official CC Service List
21	Todd J.	Guerrero	todd.guerrero@kutakrock.com	Kutak Rock LLP		Suite 1750 220 South Sixth Street Minneapolis MN, 55402-1425 United States	Electronic Service		No	25-111 Official CC Service List
22	Daniel	Gunderson	dgunderson@allete.com	Minnesota Power		30 W Superior St Duluth MN, 55802 United States	Electronic Service		No	25-111 Official CC Service List
23	Adam	Heinen	aheinen@dakotaelectric.com	Dakota Electric		4300 220th St W	Electronic Service		No	25-111 Official

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25	Valerie	Herring	vherring@taftlaw.com	Taft Stettinius & Hollister LLP		2200 IDS Center 80 S. Eighth Street Minneapolis MN, 55402 United States	Electronic Service		No	25-111 Official CC Service List
26	Corey	Hintz	chintz@dakotaelectric.com	Dakota Electric Association		4300 220th Street Farmington MN, 55024-9583 United States	Electronic Service		No	25-111 Official CC Service List
27	Michael	Hoppe	lu23@ibew 23.org	Local Union 23, I.B.E.W.		445 Etna Street Ste. 61 St. Paul MN, 55106 United States	Electronic Service		No	25-111 Official CC Service List
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37	Michael	Krikava	mkrikava@taftlaw.com	Taft Stettinius & Hollister LLP		2200 IDS Center 80 S 8th St Minneapolis MN, 55402 United States	Electronic Service		No	25-111 Official CC Service List
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42	Kavita	Maini	kmains@wi.rr.com	KM Energy Consulting, LLC		961 N Lost Woods Rd Oconomowoc WI, 53066 United States	Electronic Service		No	25-111 Official CC Service List
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44	Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP		33 South Sixth St Ste 4200 Minneapolis MN, 55402 United States	Electronic Service		No	25-111 Official CC Service List
45	James	Mortenson	james.mortenson@state.mn.us		Office of Administrative Hearings	PO BOX 64620 St. Paul MN,	Electronic Service		Yes	25-111 Official CC

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						55164-0620 United States				Service List
46	David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency		220 South Sixth Street Suite 1300 Minneapolis MN, 55402 United States	Electronic Service		No	25-111 Official CC Service List
47	Samantha	Norris	samanthanorris@alliantenergy.com	Interstate Power and Light Company		200 1st Street SE PO Box 351 Cedar Rapids IA, 52406- 0351 United States	Electronic Service		No	25-111 Official CC Service List
48	Ellen	Nowak	ellen.nowak@wisconsin.gov	Public Service Commission of Wisconsin		4822 Madison Yards Way Madison WI, 53707 United States	Paper Service		No	25-111 Official CC Service List
49	Matthew	Olsen	molsen@otpc.com	Otter Tail Power Company		215 South Cascade Street Fergus Falls MN, 56537 United States	Electronic Service		No	25-111 Official CC Service List
50	Carol A.	Overland	overland@legalelectric.org	Legalelectric - Overland Law Office		1110 West Avenue Red Wing MN, 55066 United States	Electronic Service		No	25-111 Official CC Service List
51	Greg	Palmer	gpalmer@greatermngas.com	Greater Minnesota Gas, Inc.		1900 Cardinal Ln PO Box 798 Faribault MN, 55021 United States	Electronic Service		No	25-111 Official CC Service List
52	Jennifer	Peterson	jjpeterson@mnpower.com	Minnesota Power		30 West Superior Street Duluth MN, 55802 United States	Electronic Service		No	25-111 Official CC Service List
53	Catherine	Phillips	catherine.phillips@wecenergygroup.com	Minnesota Energy Resources		231 West Michigan St Milwaukee WI, 53203 United States	Electronic Service		No	25-111 Official CC Service List
54	Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us		Office of the Attorney General - Residential Utilities Division	1400 BRM Tower 445 Minnesota St St. Paul MN, 55101-2131 United States	Electronic Service		Yes	25-111 Official CC Service List
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56	Susan	Romans	sromans@allete.com	Minnesota Power		30 West Superior Street	Electronic Service		No	25-111 Official CC

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57	John	Sagone	jsagone@atcllc.com	American Transmission Company		W234 N2000 Ridgeview Pkw y Ct. WaukeshawI, 53188 United States	Electronic Service		No	25-111 Official CC Service List
58	Elizabeth	Schmiesing	eschmiesing@w inthrop.com	Winthrop & Weinstine, P.A.		225 South Sixth Street Suite 3500 Minneapolis MN, 55402 United States	Electronic Service		No	25-111 Official CC Service List
59	Janet	Shaddix Eling	jshaddix@janetshaddix.com	Shaddix & Associates		7400 Lyndale Avenue South Suite 190 Richfield MN, 55423 United States	Electronic Service		Yes	25-111 Official CC Service List
60	Ken	Smith	ken.smith@districtenergy.com	District Energy St. Paul Inc.		76 W Kellogg Blvd St. Paul MN, 55102 United States	Electronic Service		No	25-111 Official CC Service List
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64	Cary	Stephenson	cstephenson@otpc.com	Otter Tail Power Company		215 South Cascade Street Fergus Falls MN, 56537 United States	Electronic Service		No	25-111 Official CC Service List
65	Eric	Sw anson	esw anson@w inthrop.com	Winthrop & Weinstine, P.A.		225 6th St Ste 3500 Minneapolis MN, 55402 United States	Electronic Service		No	25-111 Official CC Service List
66	Kodi	Verhalen	kverhalen@taftlaw .com	Taft Stettinius & Hollister LLP		80 S 8th St Ste 2200 Minneapolis MN, 55402 United States	Electronic Service		No	25-111 Official CC Service List
67	Joseph	Windler	jw indler@w inthrop.com	Winthrop & Weinstine		225 South Sixth Street, Suite 3500	Electronic Service		No	25-111 Official CC

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68	Kurt	Zimmerman	kw z@ibew 160.org	Local Union #160, IBEW		2909 Anthony Ln St Anthony Village MN, 55418-3238 United States	Electronic Service		No	25-111 Official CC Service List
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3	Sasha	Bergman	sasha.bergman@state.mn.us		Public Utilities Commission	121 7th Pl E Ste 350 St. Paul MN, 55101 United States	Electronic Service		Yes	Official 25-112
4	Matthew	Brodin	mbrodin@allete.com	Minnesota Power		30 West Superior Street Duluth MN, 55802 United States	Electronic Service		No	Official 25-112
5	Mike	Bull	mike.bull@state.mn.us		Public Utilities Commission	121 7th Place East, Suite 350 St. Paul MN, 55101 United States	Electronic Service		Yes	Official 25-112
6	Samantha	Bump	samantha.bump@state.mn.us		Department of Natural Resources	500 Lafayette Rd, Box 25 Division of Ecological & Water Resources Saint Paul MN, 55155-4025 United States	Electronic Service		No	Official 25-112
7	Jennifer	Cady	jjcady@mnpower.com	Minnesota Power		30 W Superior St Duluth MN, 55802 United States	Electronic Service		No	Official 25-112
8	James	Canaday	james.canaday@ag.state.mn.us		Office of the Attorney General - Residential Utilities Division	Suite 1400 445 Minnesota St. St. Paul MN, 55101 United States	Electronic Service		No	Official 25-112
9	Cody	Chilson	cchilson@greatermngas.com	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC		1900 Cardinal Ln PO Box 798 Faribault MN, 55021 United States	Electronic Service		No	Official 25-112
10	Ray	Choquette	rchoquette@agp.com	Ag Processing Inc.		12700 West Dodge Road PO Box 2047 Omaha NE, 68103-2047 United States	Paper Service		No	Official 25-112
11	John	Coffman	john@johncoffman.net	AARP		871 Tuxedo Blvd. St, Louis MO,	Electronic Service		No	Official 25-112

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12	Generic	Commerce Attorneys	commerce.attorneys@ag.state.mn.us		Office of the Attorney General - Department of Commerce	445 Minnesota Street Suite 600 St. Paul MN, 55101 United States	Electronic Service		Yes	Official 25-112
13	Hillary	Creurer	hcreurer@allete.com	Minnesota Power		30 W Superior St Duluth MN, 55802 United States	Electronic Service		No	Official 25-112
14	George	Crocker	gw illc@naw o.org	North American Water Office		5093 Keats Avenue Lake Elmo MN, 55042 United States	Electronic Service		No	Official 25-112
15	Jackson	Evans	jjevans@allete.com	Minnesota Power		30 West Superior Street Duluth MN, 55802 United States	Electronic Service		No	Official 25-112
16	John	Farrell	jfarrell@ilsr.org	Institute for Local Self-Reliance		2720 E. 22nd St Institute for Local Self-Reliance Minneapolis MN, 55406 United States	Electronic Service		No	Official 25-112
17	Eric	Fehlhaber	efehlhaber@dakotaelectric.com	Dakota Electric Association		4300 220th St W Farmington MN, 55024 United States	Electronic Service		No	Official 25-112
18	Sharon	Ferguson	sharon.ferguson@state.mn.us		Department of Commerce	85 7th Place E Ste 280 Saint Paul MN, 55101-2198 United States	Electronic Service		No	Official 25-112
19	Daryll	Fuentes	energy@usg.com	USG Corporation		550 W Adams St Chicago IL, 60661 United States	Electronic Service		No	Official 25-112
20	Todd J.	Guerrero	todd.guerrero@kutakrock.com	Kutak Rock LLP		Suite 1750 220 South Sixth Street Minneapolis MN, 55402-1425 United States	Electronic Service		No	Official 25-112
21	Daniel	Gunderson	dgunderson@allete.com	Minnesota Power		30 W Superior St Duluth MN, 55802 United States	Electronic Service		No	Official 25-112
22	Adam	Heinen	aheinen@dakotaelectric.com	Dakota Electric Association		4300 220th St W Farmington	Electronic Service		No	Official 25-112

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24	Corey	Hintz	chintz@dakotaelectric.com	Dakota Electric Association		4300 220th Street Farmington MN, 55024-9583 United States	Electronic Service		No	Official 25-112
25	Michael	Hoppe	lu23@ibew 23.org	Local Union 23, I.B.E.W.		445 Etna Street Ste. 61 St. Paul MN, 55106 United States	Electronic Service		No	Official 25-112
26	Frank	Hornstein	frank.hornstein@minneapolismn.gov	City of Minneapolis		350 South 5th Street Minneapolis MN, 55415 United States	Electronic Service		No	Official 25-112
27	Lori	Hoyum	lhoyum@mnpower.com	Minnesota Power		30 West Superior Street Duluth MN, 55802 United States	Electronic Service		No	Official 25-112
28	Travis	Jacobson	travis.jacobson@mdu.com	Great Plains Natural Gas Company		400 N 4th St Bismarck ND, 58501 United States	Electronic Service		No	Official 25-112
29	Alan	Jenkins	aj@jenkinsatlaw.com	Jenkins at Law		2950 Yellow tail Ave. Marathon FL, 33050 United States	Electronic Service		No	Official 25-112
30	Richard	Johnson	rickjohnson@cozen.com	Cozen O'Connor		150 S. 5th Street Suite 1200 Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112
31	Sarah	Johnson Phillips	sjphillips@stoel.com	Stoel Rives LLP		33 South Sixth Street Suite 4200 Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112
32	Nick	Kaneski	nick.kaneski@enbridge.com	Enbridge Energy Company, Inc.		11 East Superior St Ste 125 Duluth MN, 55802 United States	Electronic Service		No	Official 25-112
33	Hudson	Kingston	hudson@curemn.org			PO Box 712 Ely MN, 55731 United States	Electronic Service		No	Official 25-112

#	First Name	Last Name	Email	Organization	Agency	Address	Delivery Method	Alternate Delivery Method	View Trade Secret	Service List Name
34	Stacy	Kotch Egstad	stacy.kotch@state.mn.us		Minnesota Department of Transportation	395 John Ireland Blvd MS 678 St. Paul MN, 55155 United States	Electronic Service		No	Official 25-112
35	Michael	Krikava	mkrikava@taftlaw.com	Taft Stettinius & Hollister LLP		2200 IDS Center 80 S 8th St Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112
36	Nicole	Kupser	nkupser@greatermngas.com	Greater Minnesota Gas, Inc.		1900 Cardinal Ln PO Box 798 Faribault MN, 55021 United States	Electronic Service		No	Official 25-112
37	James D.	Larson	james.larson@avantenergy.com	Avant Energy Services		220 S 6th St Ste 1300 Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112
38	Greg	Levesque	glevesque@atcllc.com				Electronic Service		No	Official 25-112
39	Susan	Ludwig	sludwig@mpower.com	Minnesota Power		30 West Superior Street Duluth MN, 55802 United States	Electronic Service		No	Official 25-112
40	Kavita	Maini	kmains@wi.rr.com	KM Energy Consulting, LLC		961 N Lost Woods Rd Oconomowoc WI, 53066 United States	Electronic Service		No	Official 25-112
41	Christine	Marquis	regulatory.records@xcelenergy.com	Xcel Energy		414 Nicollet Mall MN1180-07-MCA Minneapolis MN, 55401 United States	Electronic Service		No	Official 25-112
42	Andrew	Moratzka	andrew.moratzka@stoel.com	Stoel Rives LLP		33 South Sixth St Ste 4200 Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112
43	David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency		220 South Sixth Street Suite 1300 Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112
44	Samantha	Norris	samanthanorris@alliantenergy.com	Interstate Power and Light Company		200 1st Street SE PO Box 351 Cedar Rapids IA, 52406-0351 United States	Electronic Service		No	Official 25-112
45	Ellen	Nowak	ellen.nowak@wisconsin.gov	Public Service Commission		4822 Madison Yards Way	Paper Service		No	Official 25-112

#	First Name	Last Name	Email	Organization	Agency	Address	Delivery Method	Alternate Delivery Method	View Trade Secret	Service List Name
				of Wisconsin		Madison WI, 53707 United States				
46	Matthew	Olsen	molsen@otpc.com	Otter Tail Power Company		215 South Cascade Street Fergus Falls MN, 56537 United States	Electronic Service		No	Official 25-112
47	Carol A.	Overland	overland@legalelectric.org	Legalelectric - Overland Law Office		1110 West Avenue Red Wing MN, 55066 United States	Electronic Service		No	Official 25-112
48	Greg	Palmer	gpalmer@greatermngas.com	Greater Minnesota Gas, Inc.		1900 Cardinal Ln PO Box 798 Faribault MN, 55021 United States	Electronic Service		No	Official 25-112
49	Jennifer	Peterson	jppeterson@mnpower.com	Minnesota Power		30 West Superior Street Duluth MN, 55802 United States	Electronic Service		No	Official 25-112
50	Catherine	Phillips	catherine.phillips@weenergygroup.com	Minnesota Energy Resources		231 West Michigan St Milwaukee WI, 53203 United States	Electronic Service		No	Official 25-112
51	Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us		Office of the Attorney General - Residential Utilities Division	1400 BRM Tower 445 Minnesota St St. Paul MN, 55101-2131 United States	Electronic Service		Yes	Official 25-112
52	Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy		26 E Exchange St, Ste 206 St. Paul MN, 55101-1667 United States	Electronic Service		No	Official 25-112
53	Susan	Romans	sromans@allete.com	Minnesota Power		30 West Superior Street Legal Dept Duluth MN, 55802 United States	Electronic Service		No	Official 25-112
54	Elizabeth	Schmiesing	eschmiesing@winthrop.com	Winthrop & Weinstein, P.A.		225 South Sixth Street Suite 3500 Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112
55	Ken	Smith	ken.smith@districtenergy.com	District Energy St. Paul Inc.		76 W Kellogg Blvd St. Paul MN, 55102 United States	Electronic Service		No	Official 25-112
56	Peggy	Sorum	peggy.sorum@centerpointenergy.com	CenterPoint Energy		505 Nicollet Mall	Electronic Service		No	Official 25-112

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						Minneapolis MN, 55402 United States				
57	Byron E.	Starns	byron.starns@stinson.com	STINSON LLP		50 S 6th St Ste 2600 Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112
58	Kristin	Stastny	kstastny@taftlaw.com	Taft Stettinius & Hollister LLP		2200 IDS Center 80 South 8th Street Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112
59	Cary	Stephenson	cstephenson@otpc.com	Otter Tail Power Company		215 South Cascade Street Fergus Falls MN, 56537 United States	Electronic Service		No	Official 25-112
60	Joseph	Windler	jwindler@winthrop.com	Winthrop & Weinstine		225 South Sixth Street, Suite 3500 Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112
61	Kurt	Zimmerman	kwz@ibew160.org	Local Union #160, IBEW		2909 Anthony Ln St Anthony Village MN, 55418-3238 United States	Electronic Service		No	Official 25-112
62	Patrick	Zomer	pzomer@cozen.com	Cozen O'Connor		150 S. 5th Street, #1200 Minneapolis MN, 55402 United States	Electronic Service		No	Official 25-112