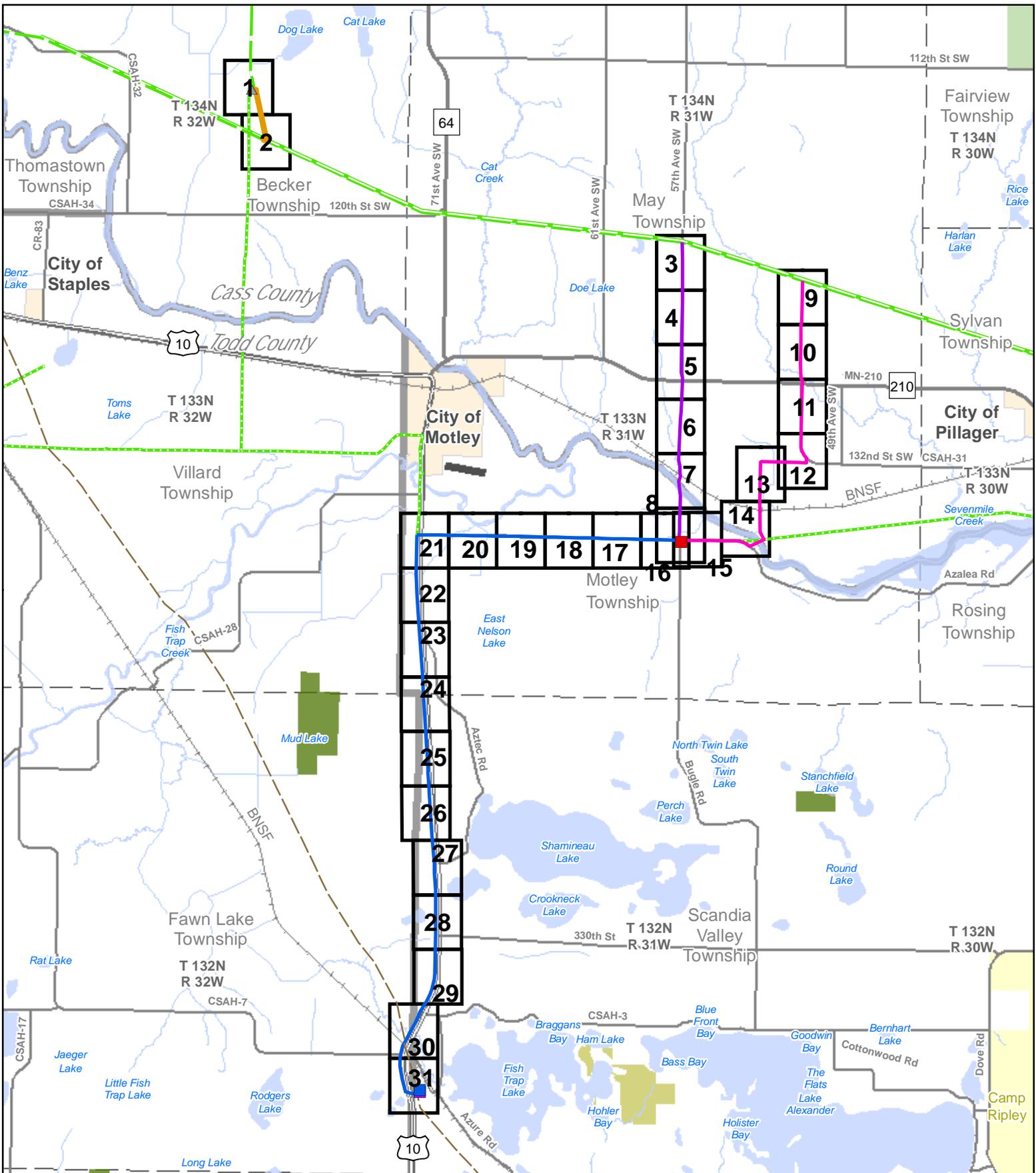


Appendix D. Route Maps



- | | | |
|---|----------------------------|--|
| Great River Energy | Minnesota Pipe Line | Minnesota Power |
| Common Route - Proposed 115 kV Transmission Line | Proposed Pump Station | Proposed 115 kV Transmission Line |
| East Route Option - Proposed 115 kV Transmission Line | Existing Pipeline | Existing Transmission Substation |
| West Route Option - Proposed 115 kV Transmission Line | Existing Pipeline | Existing 230 kV Transmission Line |
| Existing Transmission Substation | Existing Pipeline | Existing 115 kV Transmission Line |
| Crow Wing Power | Existing Pipeline | Existing 34.5 kV Sub-Transmission Line |
| Proposed Distribution Substation | Existing Pipeline | |
| Existing Distribution Substation | Existing Pipeline | |

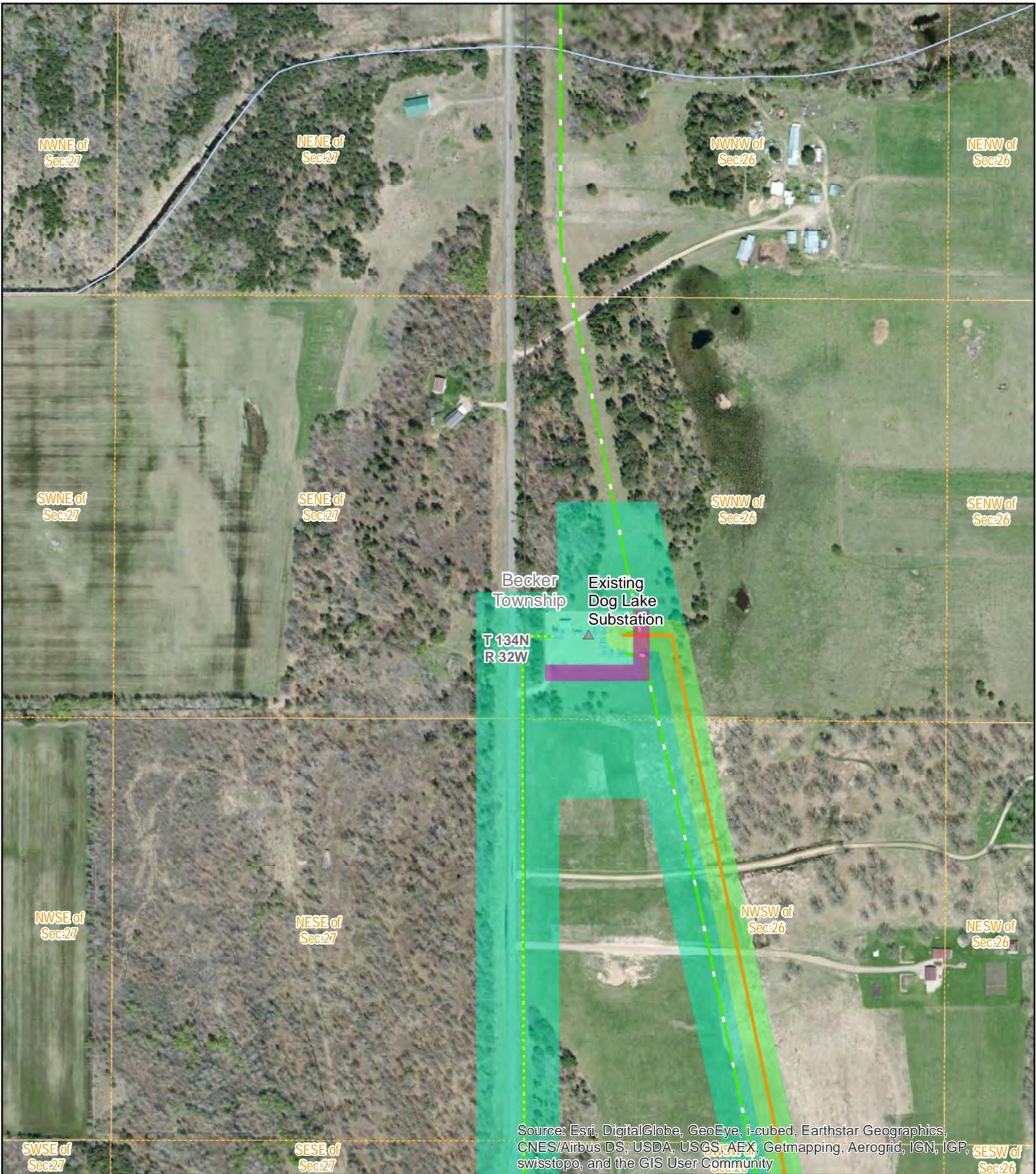
Appendix E
 Map Grid

Motley Area 115 kV Project Detailed Route Maps Key

0 0.5 1 Miles
 GIS Data sources include:
 MNGEO, MNDNR, MNDOT, and Great River Energy.

GREAT RIVER ENERGY
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Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Proposed Distribution Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (0) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (0) 250' from Alignment	
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Motley Area 115 kV Project

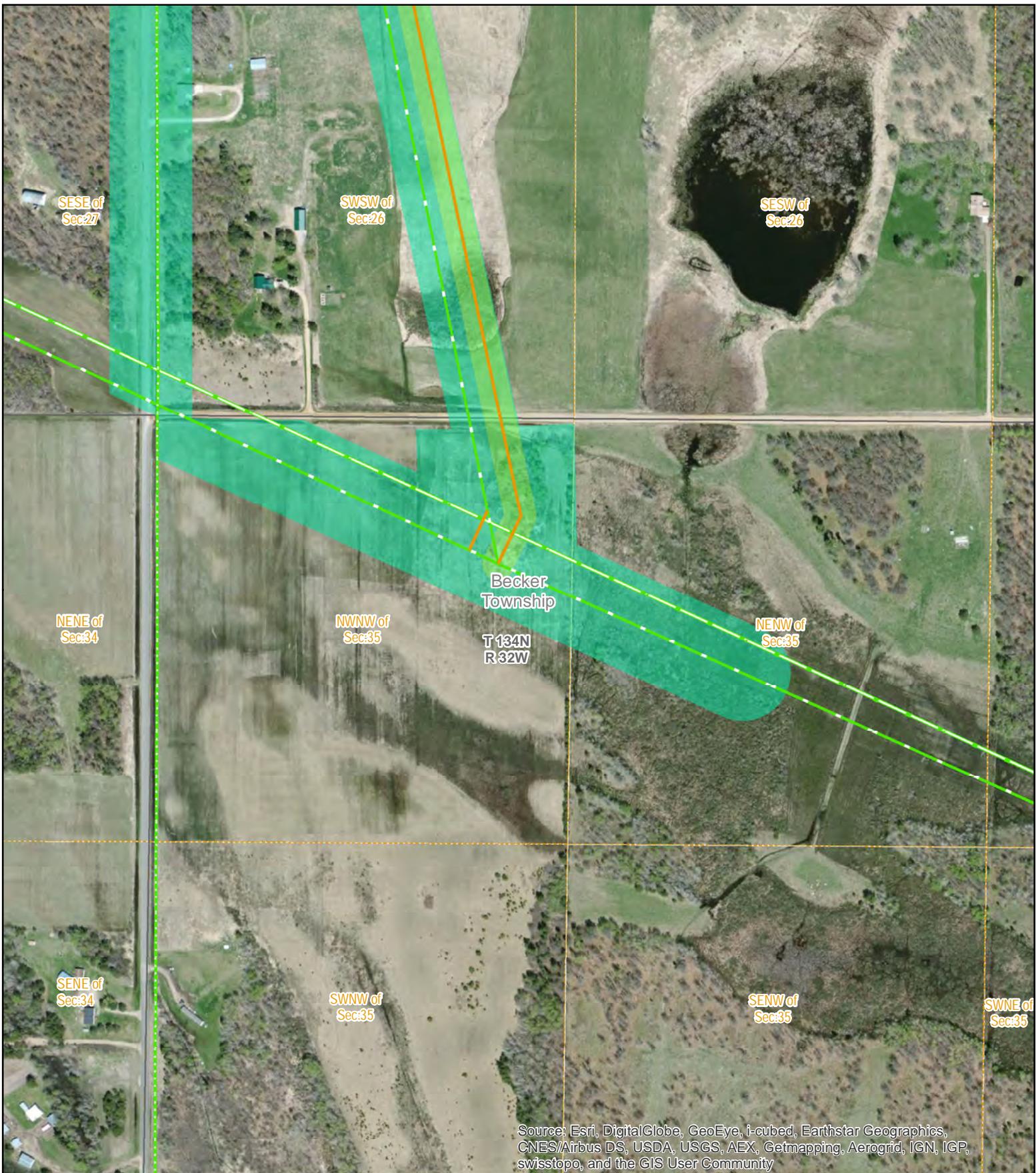
Detailed Route Maps

Map Sheet 1 of 31

Dog Lake Map 1

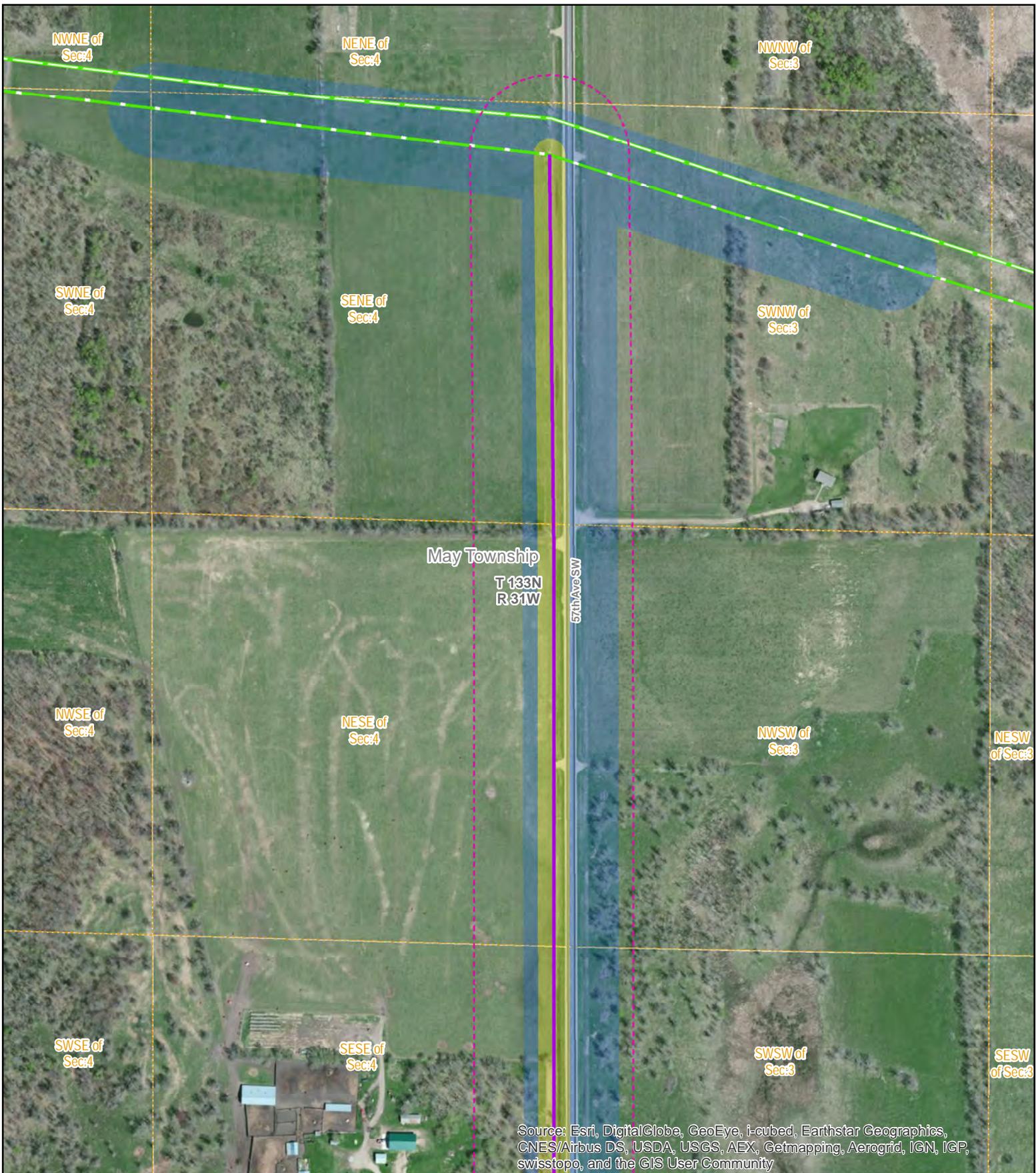
0 50 100 200 Feet
 GIS Data sources include:
 MNGEO, MNDNR, MNDOT, and Great River Energy.

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Crow Wing Power Proposed Distribution Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (0) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (0) 250' from Alignment		Motley Area 115 kV Project Detailed Route Maps Map Sheet 2 of 31 Dog Lake Map 2 0 50 100 200 Feet GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy. GREAT RIVER ENERGY A Touchstone Energy Cooperative	
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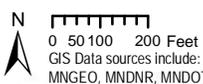
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (0) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (0) 250' from Alignment	
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Motley Area 115 kV Project
Detailed Route Maps

Map Sheet 3 of 31

West Route Option Map 1





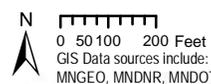
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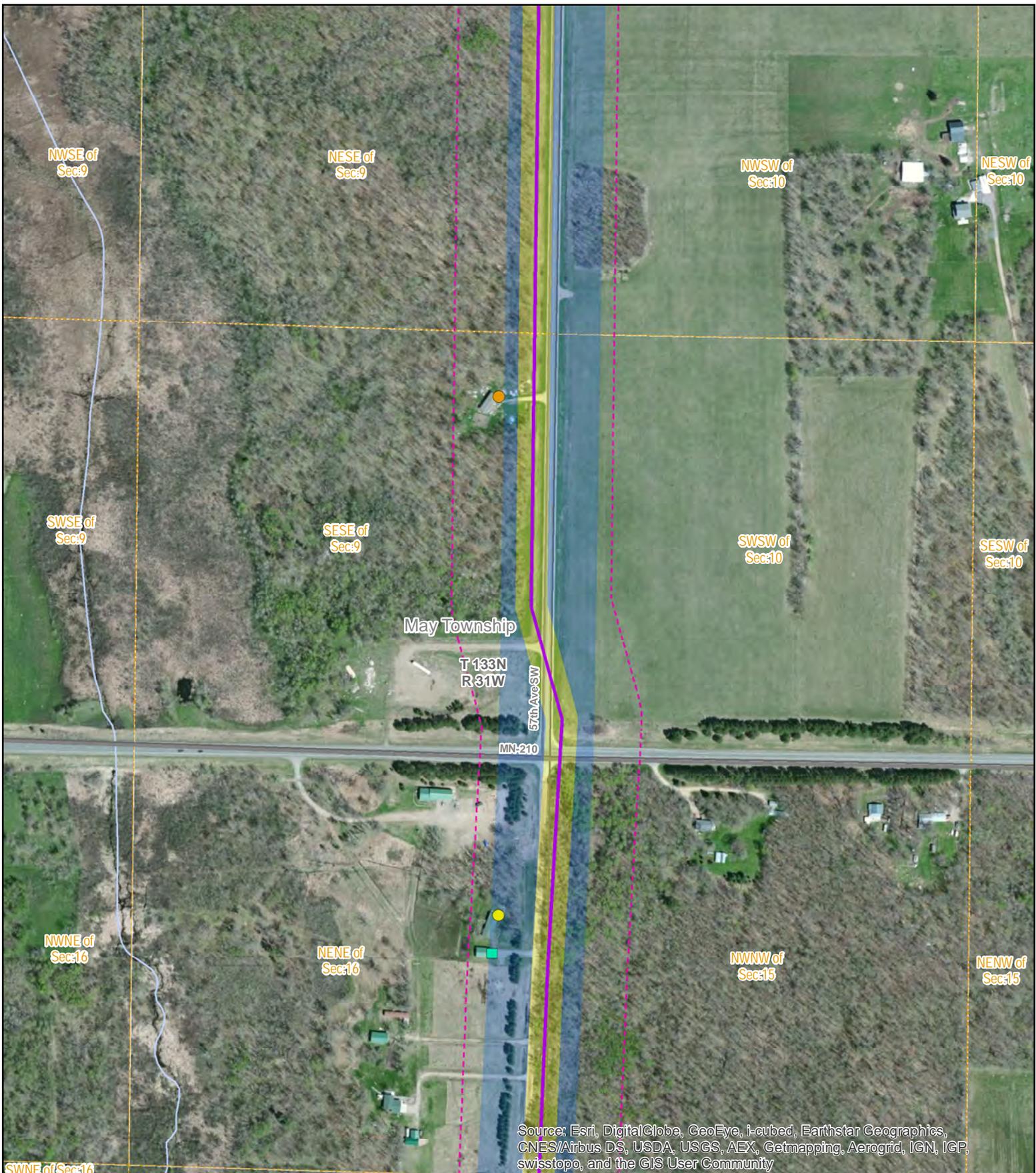
Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (0) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (1) 250' from Alignment	
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Motley Area 115 kV Project Detailed Route Maps

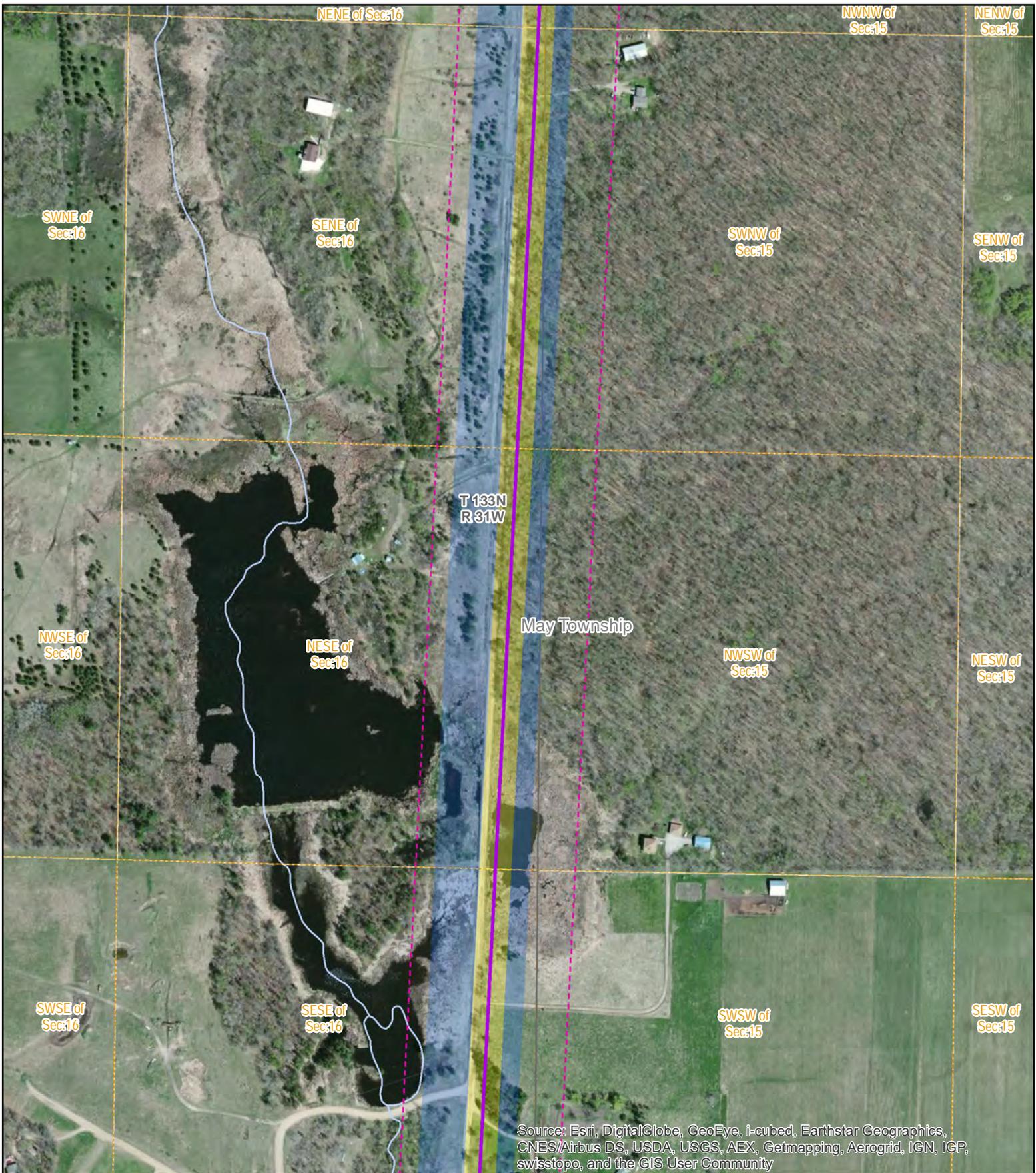
Map Sheet 4 of 31

West Route Option Map 2



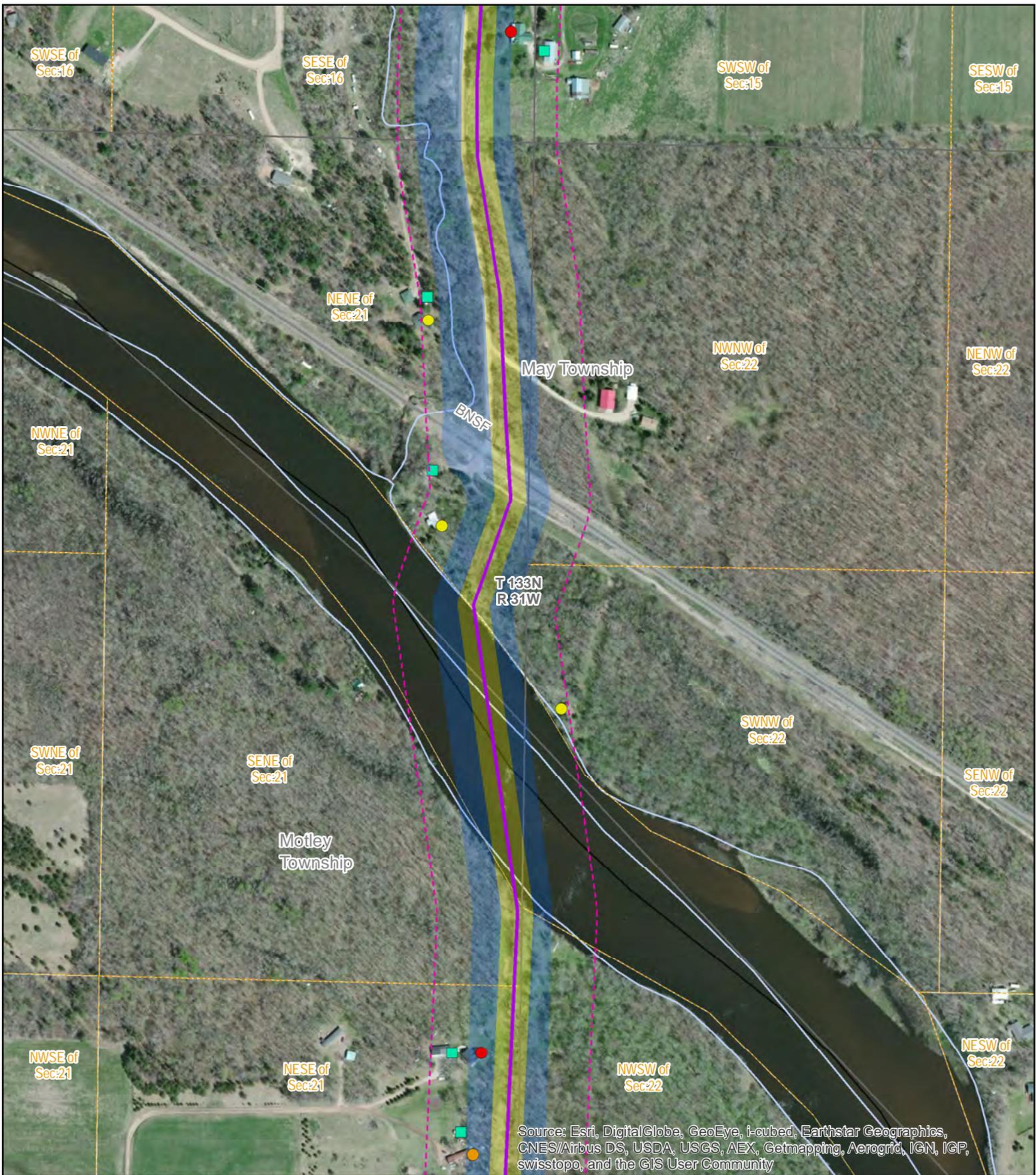


Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Crow Wing Power Proposed Distribution Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (1) Residence 150-250' (1) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (1) 250' from Alignment		<h2 style="text-align: center;">Motley Area 115 kV Project</h2> <h3 style="text-align: center;">Detailed Route Maps</h3> <h3 style="text-align: center;">Map Sheet 5 of 31</h3> <p style="text-align: right;">West Route Option Map 3</p> <p style="text-align: center;">0 50 100 200 Feet GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy.</p> <p style="text-align: center;">GREAT RIVER ENERGY A Touchstone Energy Cooperative</p>	
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (1) Residence 100-150' (0) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (0) 250' from Alignment		Motley Area 115 kV Project Detailed Route Maps Map Sheet 6 of 31 West Route Option Map 4 0 50 100 200 Feet GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy. GREAT RIVER ENERGY A Touchstone Energy Cooperative	
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

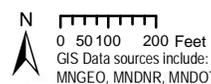
- | | |
|--|--|
| Great River Energy | Minnesota Pipe Line |
| Proposed Route | Proposed Pump Station |
| Proposed Easement Area (100' width) | Existing Pipeline |
| Common Route - Proposed 115 kV Line | Minnesota Power |
| West Route Option - Proposed 115 kV Line | Proposed Route |
| East Route Option - Proposed 115 kV Line | Proposed Substation Expansion |
| Existing Transmission Substation | Proposed 115 kV Transmission Line |
| Crow Wing Power | Existing 230 kV Transmission Line |
| Proposed Distribution Substation | Existing 115 kV Transmission Line |
| Existing Distribution Substation | Existing 34.5 kV Sub-Transmission Line |

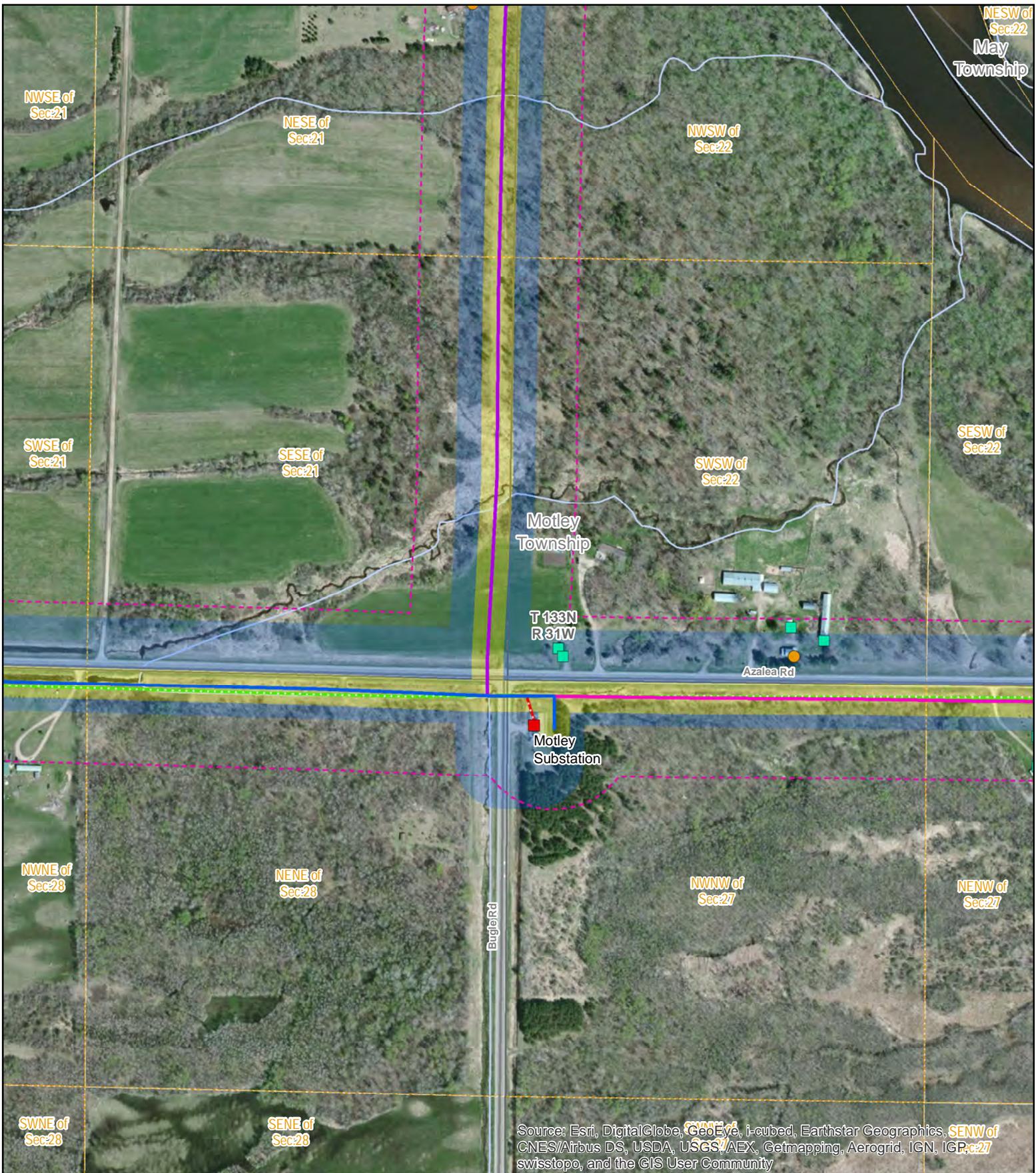
- | |
|-------------------------------------|
| Existing Transmission Substation |
| Existing Distribution Substation |
| Structure |
| Residence 0-50' (0) |
| Residence 50-100' (2) |
| Residence 100-150' (1) |
| Residence 150-250' (3) |
| Commercial / Industrial 50-250' (0) |
| Non-Residential Building 0-250' (5) |
| 250' from Alignment |

Motley Area 115 kV Project Detailed Route Maps

Map Sheet 7 of 31

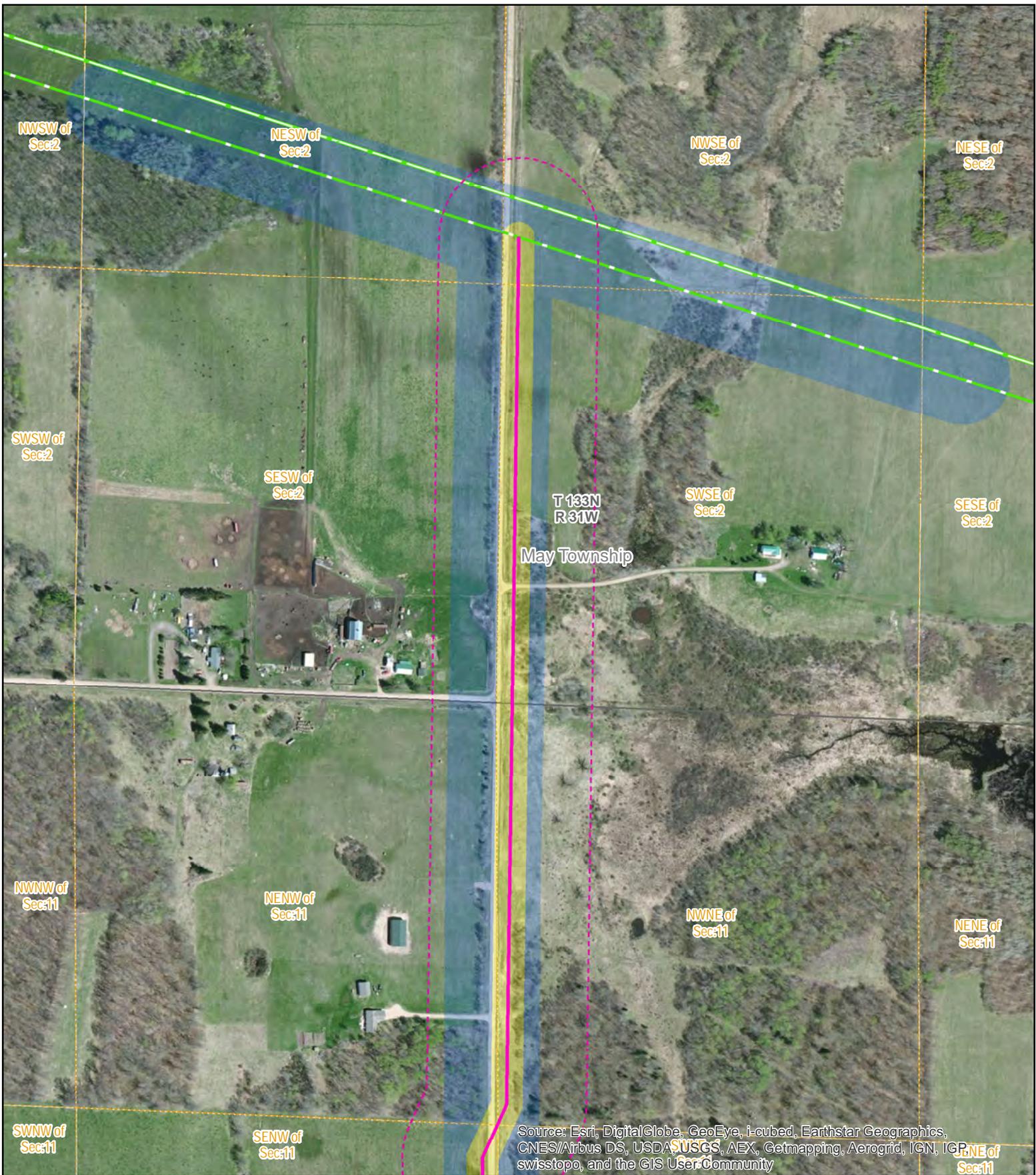
West Route Option Map 5





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, IGR, swisstopo, and the GIS User Community

<p>Great River Energy</p> <ul style="list-style-type: none"> Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation <p>Crow Wing Power</p> <ul style="list-style-type: none"> Proposed Distribution Substation Existing Distribution Substation 	<p>Minnesota Pipe Line</p> <ul style="list-style-type: none"> Proposed Pump Station Existing Pipeline <p>Minnesota Power</p> <ul style="list-style-type: none"> Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line 	<ul style="list-style-type: none"> Existing Transmission Substation Existing Distribution Substation <p>Structure</p> <ul style="list-style-type: none"> Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (2) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (6) 250' from Alignment 	<p style="text-align: right;">Motley Area 115 kV Project</p> <p style="text-align: right;">Detailed Route Maps</p> <p style="text-align: right;">Map Sheet 8 of 31</p> <p style="text-align: right;">West Route Option Map 6</p> <div style="text-align: center;"> <p>0 50 100 200 Feet GIS Data sources include: MINGEO, MNDNR, MNDOT, and Great River Energy.</p> </div> <p style="text-align: center;">GREAT RIVER ENERGY</p> <p style="text-align: center;">A Touchstone Energy Cooperative</p>
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Great River Energy**
- Proposed Route
 - Proposed Easement Area (100' width)
 - Common Route - Proposed 115 kV Line
 - West Route Option - Proposed 115 kV Line
 - East Route Option - Proposed 115 kV Line
 - Existing Transmission Substation
- Crow Wing Power**
- Proposed Distribution Substation
 - Existing Distribution Substation

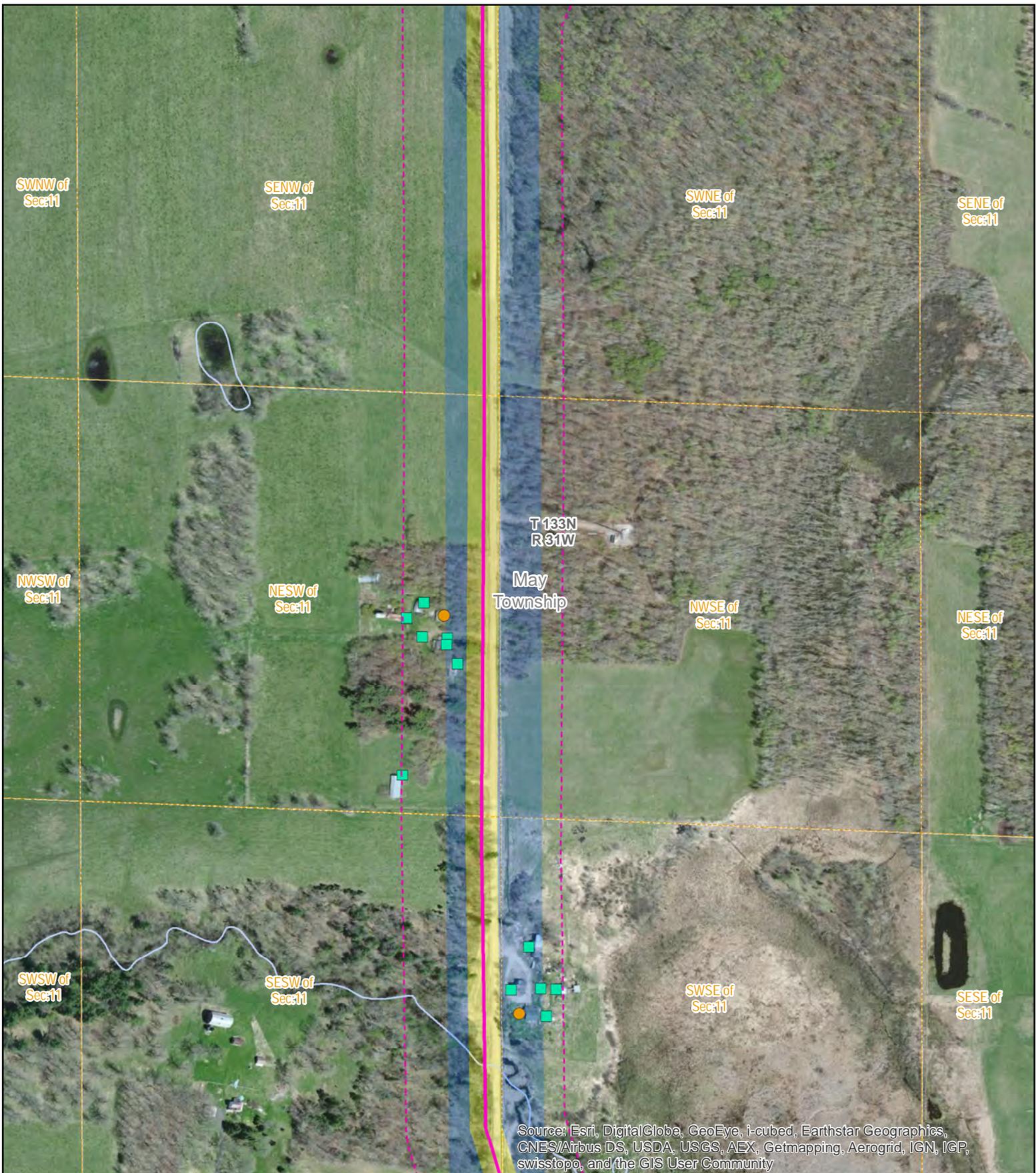
- Minnesota Pipe Line**
- Proposed Pump Station
 - Existing Pipeline
- Minnesota Power**
- Proposed Route
 - Proposed Substation Expansion
 - Proposed 115 kV Transmission Line
 - Existing 230 kV Transmission Line
 - Existing 115 kV Transmission Line
 - Existing 34.5 kV Sub-Transmission Line

- Existing Transmission Substation
 - Existing Distribution Substation
- Structure**
- Residence 0-50' (0)
 - Residence 50-100' (0)
 - Residence 100-150' (0)
 - Residence 150-250' (0)
 - Commercial / Industrial 50-250' (0)
 - Non-Residential Building 0-250' (0)
 - 250' from Alignment

Motley Area 115 kV Project
Detailed Route Maps
Map Sheet 9 of 31
 East Route Option Map 1

0 50 100 200 Feet
 GIS Data sources include:
 MNGEO, MNDNR, MNDOT, and Great River Energy.

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Crow Wing Power Proposed Distribution Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (2) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (12) 250' from Alignment		<h3>Motley Area 115 kV Project</h3> <h2>Detailed Route Maps</h2> <h1>Map Sheet 10 of 31</h1> <p>East Route Option Map 2</p> <p>0 50 100 200 Feet GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy.</p> <p>GREAT RIVER ENERGY A Touchstone Energy Cooperative</p> 	
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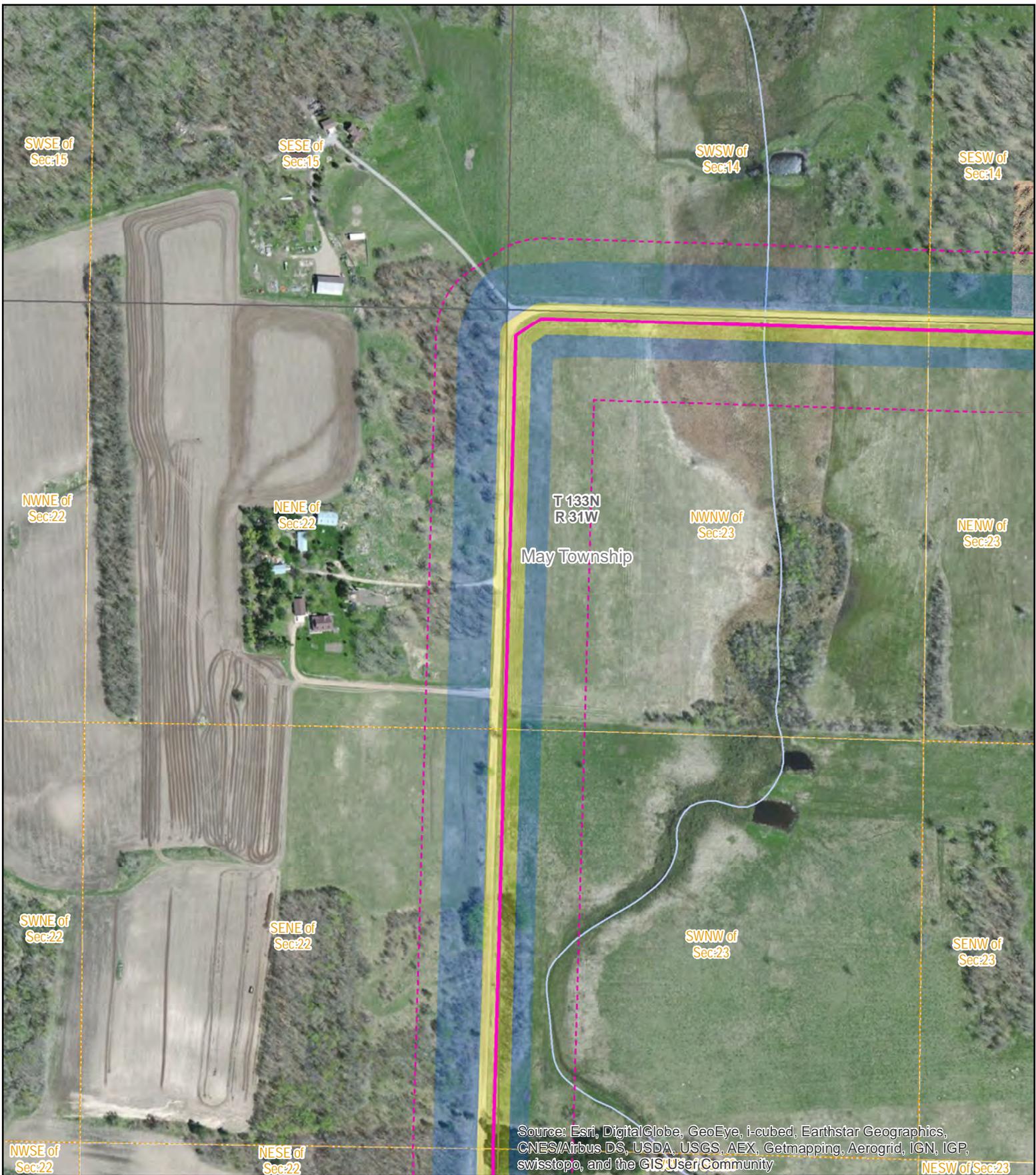
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

<p>Great River Energy</p> <ul style="list-style-type: none"> Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation <p>Crow Wing Power</p> <ul style="list-style-type: none"> Proposed Distribution Substation Existing Distribution Substation 	<p>Minnesota Pipe Line</p> <ul style="list-style-type: none"> Proposed Pump Station Existing Pipeline <p>Minnesota Power</p> <ul style="list-style-type: none"> Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line 	<ul style="list-style-type: none"> Existing Transmission Substation Existing Distribution Substation <p>Structure</p> <ul style="list-style-type: none"> Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (0) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (0) 250' from Alignment 	<p style="text-align: right;">Motley Area 115 kV Project Detailed Route Maps Map Sheet 11 of 31 East Route Option Map 3</p> <p>0 50 100 200 Feet GIS Data sources include: MINGEO, MNDNR, MNDOT, and Great River Energy.</p> <p>GREAT RIVER ENERGY A Touchstone Energy Cooperative</p> 
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Proposed Distribution Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (1) Residence 150-250' (2) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (5) 250' from Alignment		<h2 style="text-align: center;">Motley Area 115 kV Project</h2> <h3 style="text-align: center;">Detailed Route Maps</h3> <h1 style="text-align: center;">Map Sheet 12 of 31</h1> <p style="text-align: right;">East Route Option Map 4</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>N</p> </div> <div style="margin-right: 10px;"> <p>0 50 100 200 Feet</p> </div> <div style="font-size: small;"> <p>GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy.</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> </div> <p style="text-align: right; font-size: x-small;">A Touchstone Energy Cooperative</p>	
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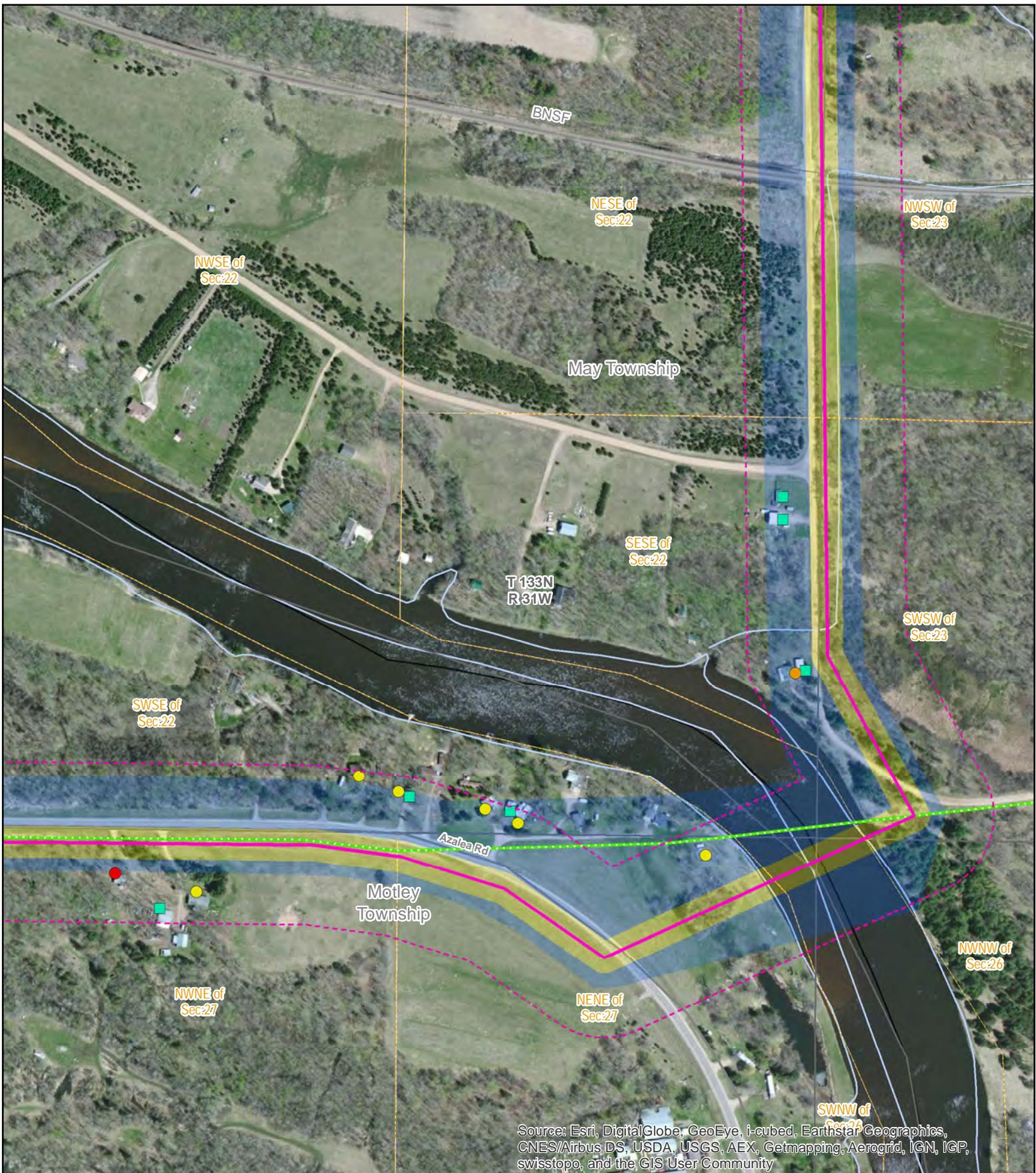
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Crow Wing Power Proposed Distribution Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (0) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (0) 250' from Alignment	
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Motley Area 115 kV Project
Detailed Route Maps
Map Sheet 13 of 31
 East Route Option Map 5

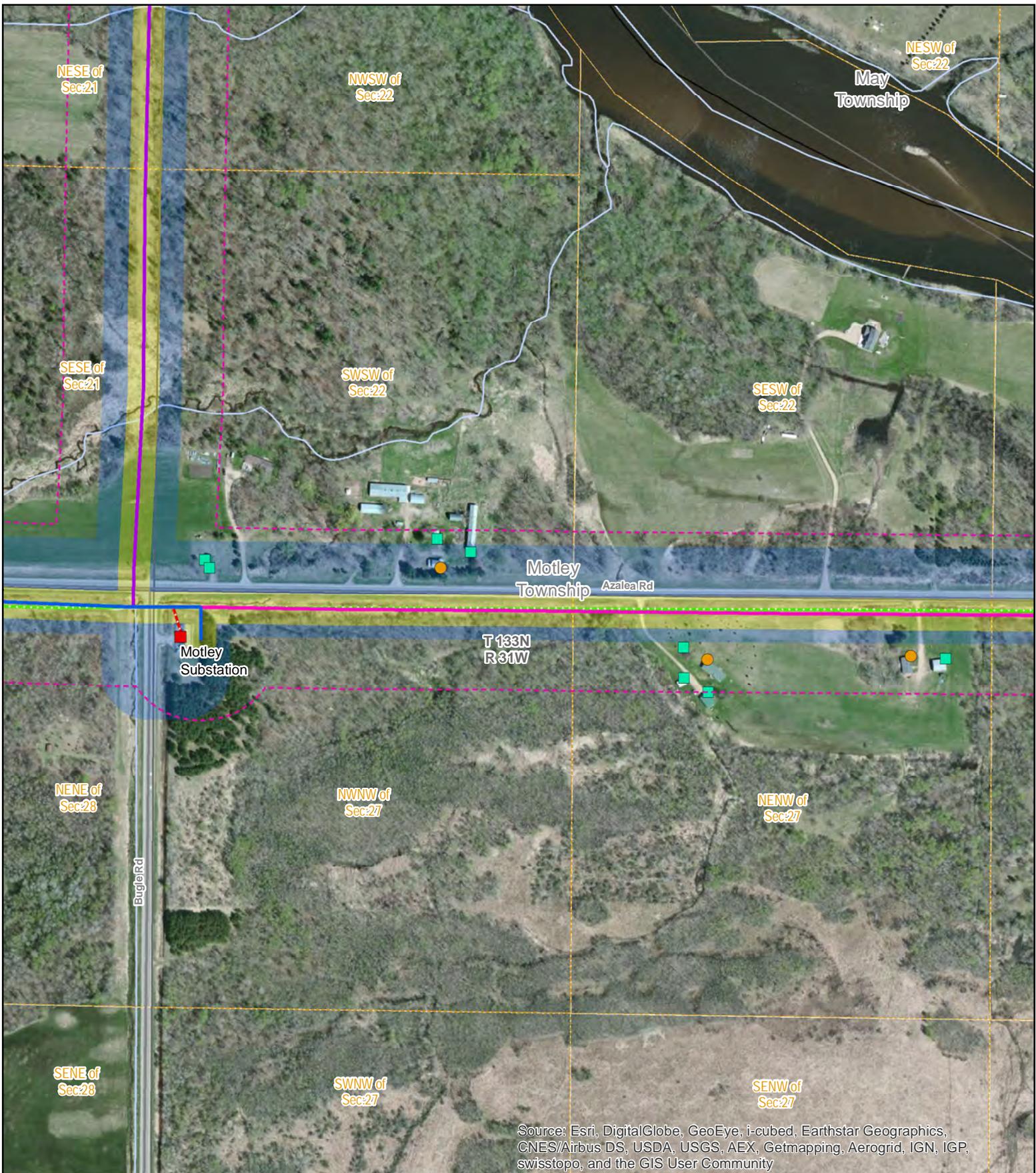
0 50 100 200 Feet
 GIS Data sources include:
 MNGEO, MNDNR, MNDOT, and Great River Energy.

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (1) Residence 100-150' (1) Residence 150-250' (6) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (6) 250' from Alignment		<h3>Motley Area 115 kV Project</h3> <h4>Detailed Route Maps</h4> <h2>Map Sheet 14 of 31</h2> <p>East Route Option Map 6</p> <p>0 50 100 200 Feet GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy.</p> <p>GREAT RIVER ENERGY A Touchstone Energy Cooperative</p>	
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Great River Energy**
- Proposed Route
 - Proposed Easement Area (100' width)
 - Common Route - Proposed 115 kV Line
 - West Route Option - Proposed 115 kV Line
 - East Route Option - Proposed 115 kV Line
 - Existing Transmission Substation
- Crow Wing Power**
- Proposed Distribution Substation
 - Existing Distribution Substation

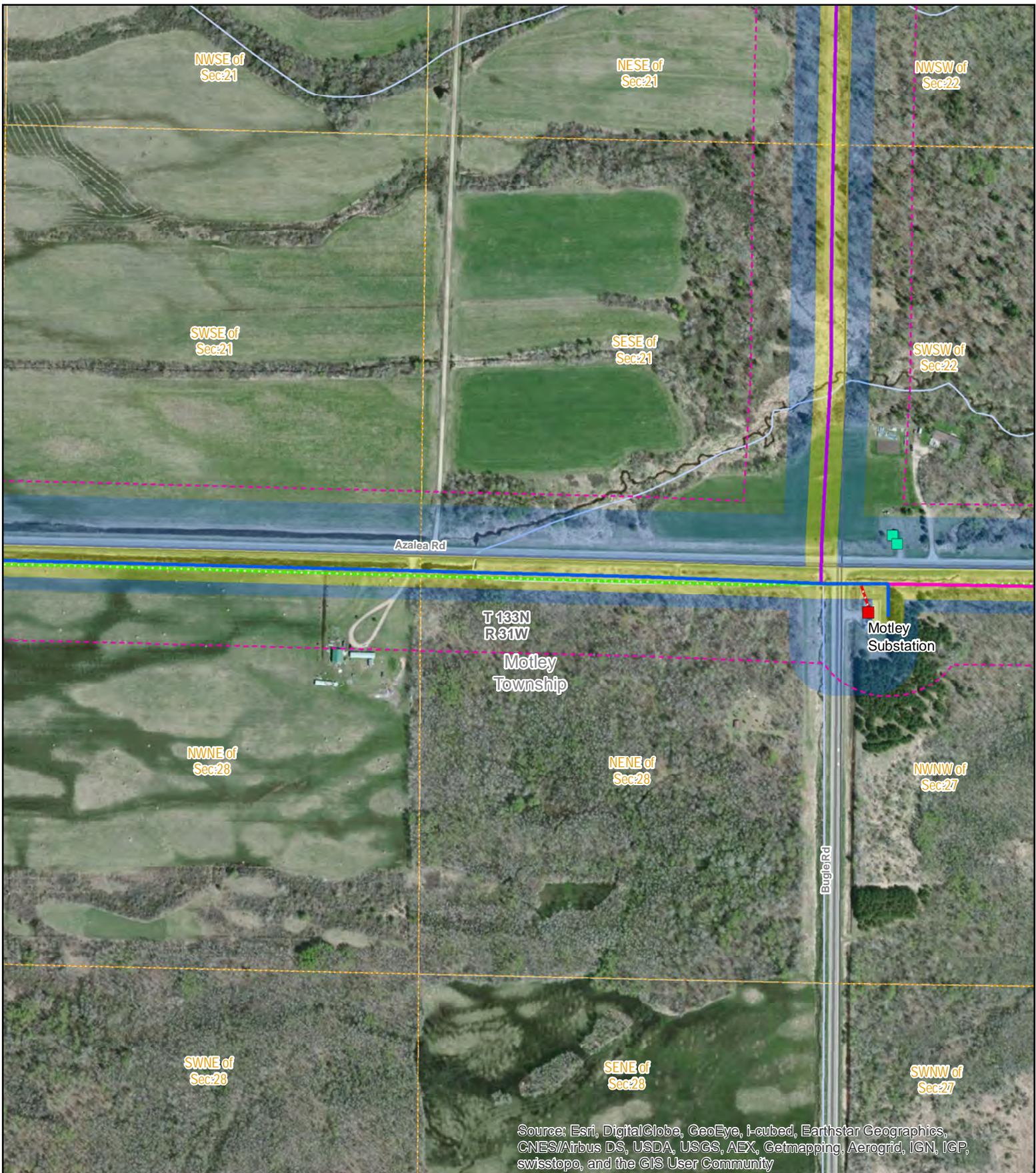
- Minnesota Pipe Line**
- Proposed Pump Station
 - Existing Pipeline
- Minnesota Power**
- Proposed Route
 - Proposed Substation Expansion
 - Proposed 115 kV Transmission Line
 - Existing 230 kV Transmission Line
 - Existing 115 kV Transmission Line
 - Existing 34.5 kV Sub-Transmission Line

- Existing Transmission Substation
 - Existing Distribution Substation
- Structure**
- Residence 0-50' (0)
 - Residence 50-100' (0)
 - Residence 100-150' (3)
 - Residence 150-250' (0)
 - Commercial / Industrial 50-250' (0)
 - Non-Residential Building 0-250' (8)
 - 250' from Alignment

Motley Area 115 kV Project
Detailed Route Maps
Map Sheet 15 of 31
 East Route Option Map 7

0 50 100 200 Feet
 GIS Data sources include:
 MNGEO, MNDNR, MNDOT, and Great River Energy.

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Crow Wing Power Proposed Distribution Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (0) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (2) 250' from Alignment	
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Motley Area 115 kV Project

Detailed Route Maps

Map Sheet 16 of 31

Common Route Map 1

Scale: 0 50 100 200 Feet
 GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy.

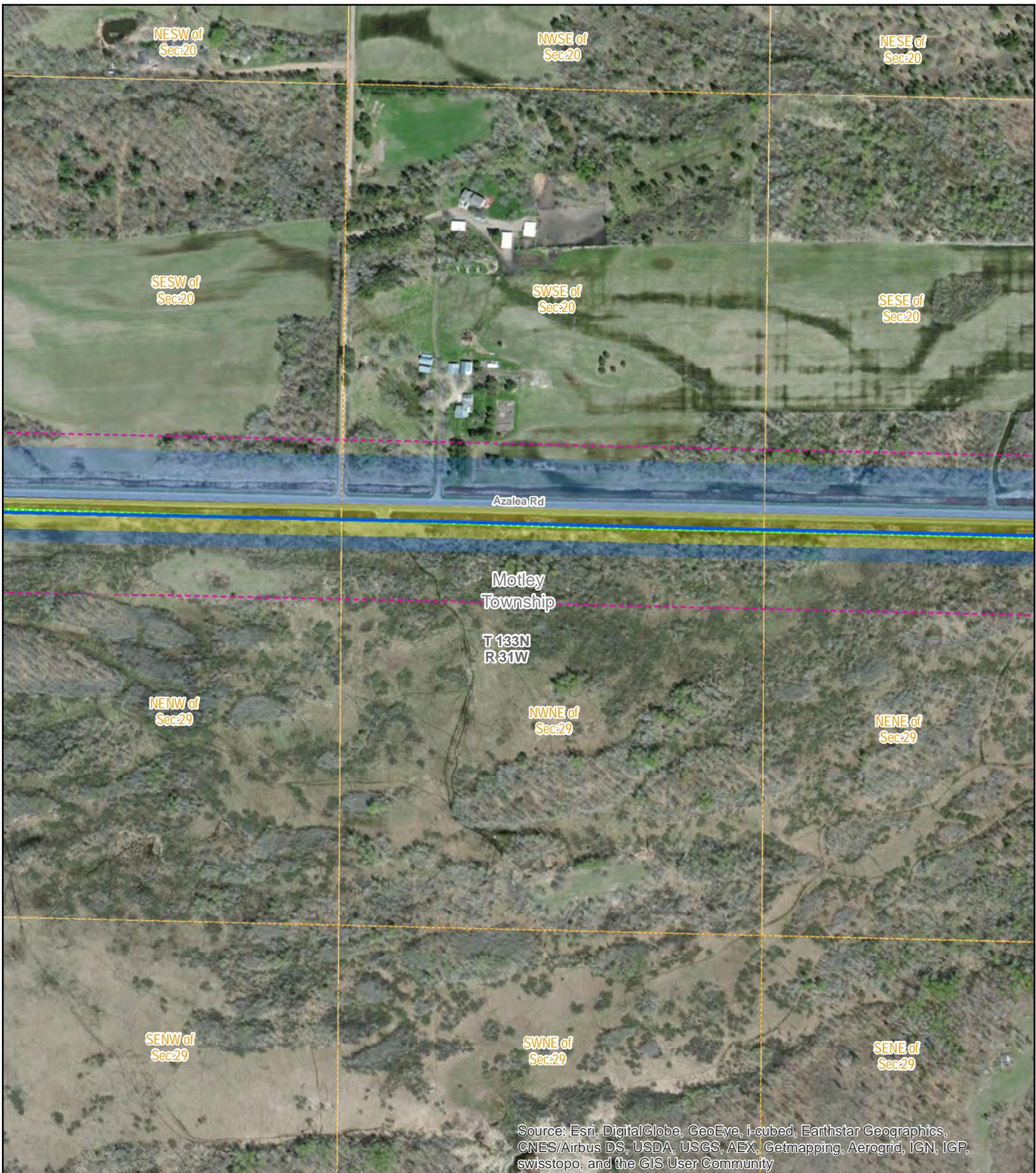


A Touchstone Energy Cooperative



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Crow Wing Power Proposed Distribution Substation Existing Distribution Substation		Minnesota Pipe Line Proposed Pump Station Existing Pipeline Minnesota Power Proposed Route Proposed Substation Expansion Proposed 115 kV Transmission Line Existing 230 kV Transmission Line Existing 115 kV Transmission Line Existing 34.5 kV Sub-Transmission Line		Existing Transmission Substation Existing Distribution Substation Structure Residence 0-50' (0) Residence 50-100' (0) Residence 100-150' (0) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (0) 250' from Alignment		<h2 style="text-align: center;">Motley Area 115 kV Project</h2> <h3 style="text-align: center;">Detailed Route Maps</h3> <h4 style="text-align: center;">Map Sheet 17 of 31</h4> <p style="text-align: right;">Common Route Map 2</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>N</p> </div> <div style="margin-right: 10px;"> <p>0 50 100 200 Feet</p> </div> <div style="font-size: 0.8em;"> <p>GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy.</p> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> </div>	
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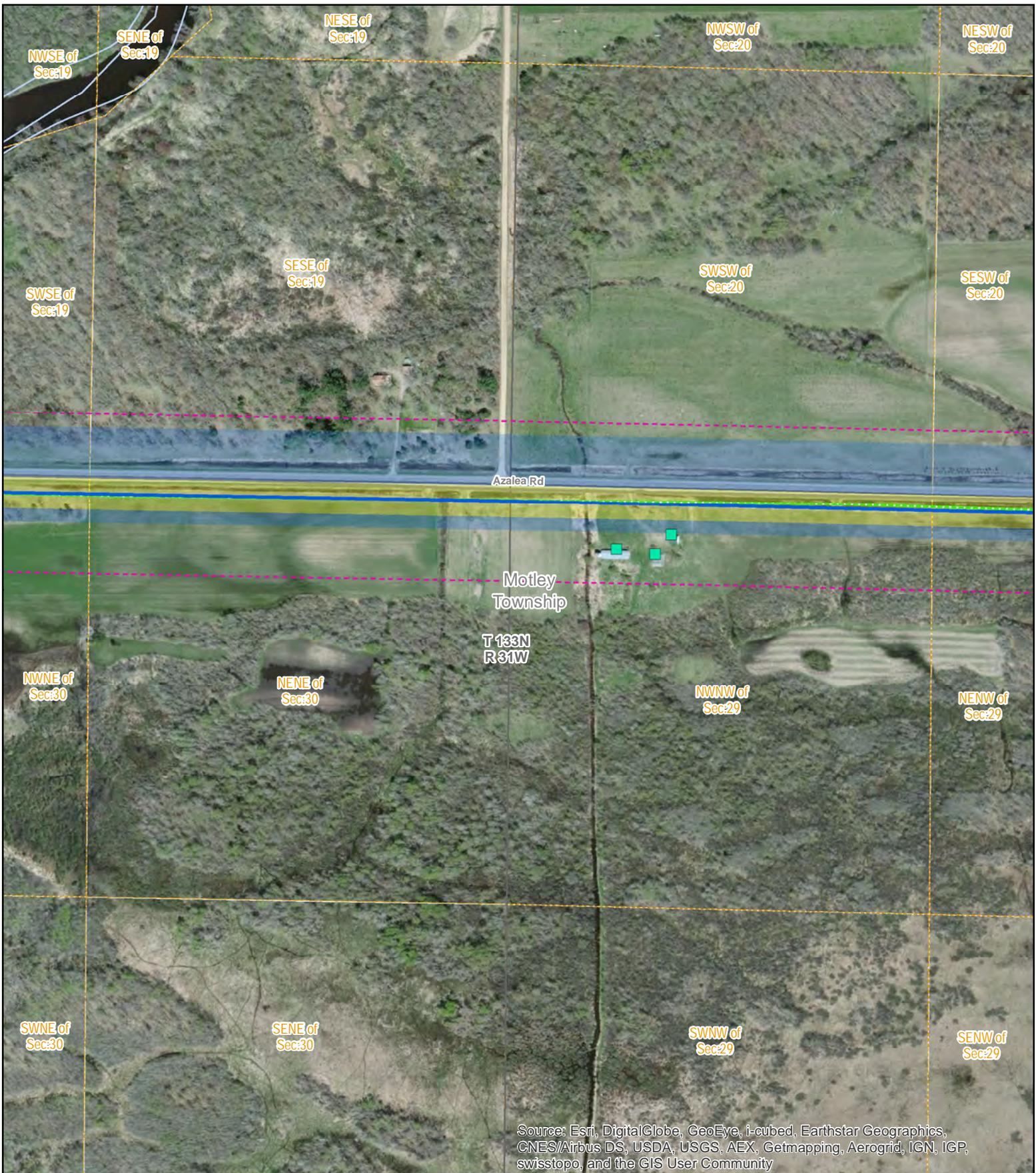
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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Motley Area 115 kV Project
Detailed Route Maps
Map Sheet 18 of 31
 Common Route Map 3

0 50 100 200 Feet
 GIS Data sources include:
 MNGEO, MNDNR, MNDOT, and Great River Energy.

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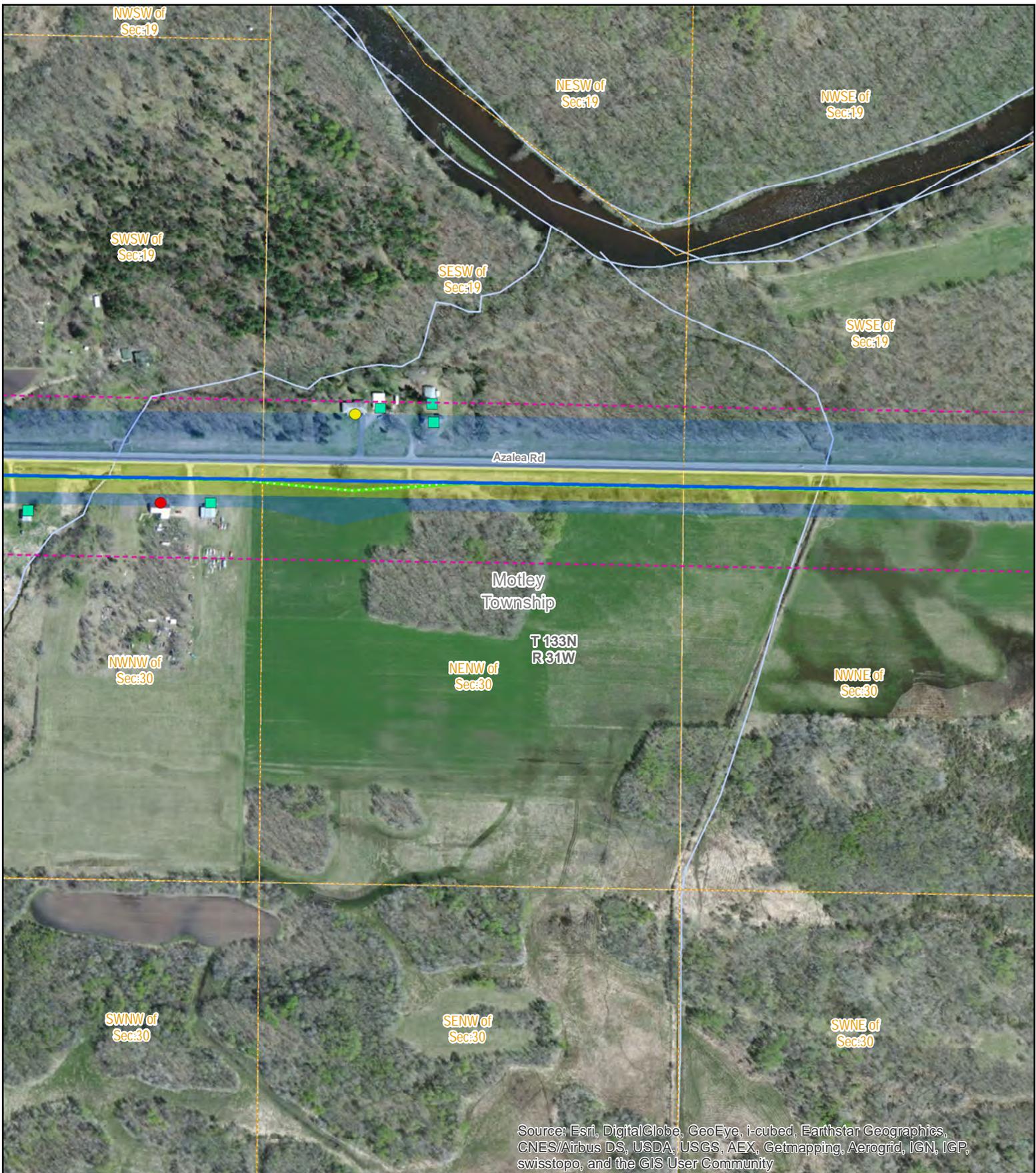
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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Motley Area 115 kV Project
Detailed Route Maps
 Map Sheet 19 of 31
 Common Route Map 4

0 50 100 200 Feet
 GIS Data sources include:
 MNGEO, MNDNR, MNDOT, and Great River Energy.

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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Motley Area 115 kV Project
Detailed Route Maps
Map Sheet 20 of 31
 Common Route Map 5

0 50 100 200 Feet
 GIS Data sources include:
 MNGEO, MNDNR, MNDOT, and Great River Energy.

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, ICP, swisstopo, and the GIS User Community

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Great River Energy**
- Proposed Route
 - Proposed Easement Area (100' width)
 - Common Route - Proposed 115 kV Line
 - West Route Option - Proposed 115 kV Line
 - East Route Option - Proposed 115 kV Line
 - Existing Transmission Substation
- Crow Wing Power**
- Proposed Distribution Substation
 - Existing Distribution Substation

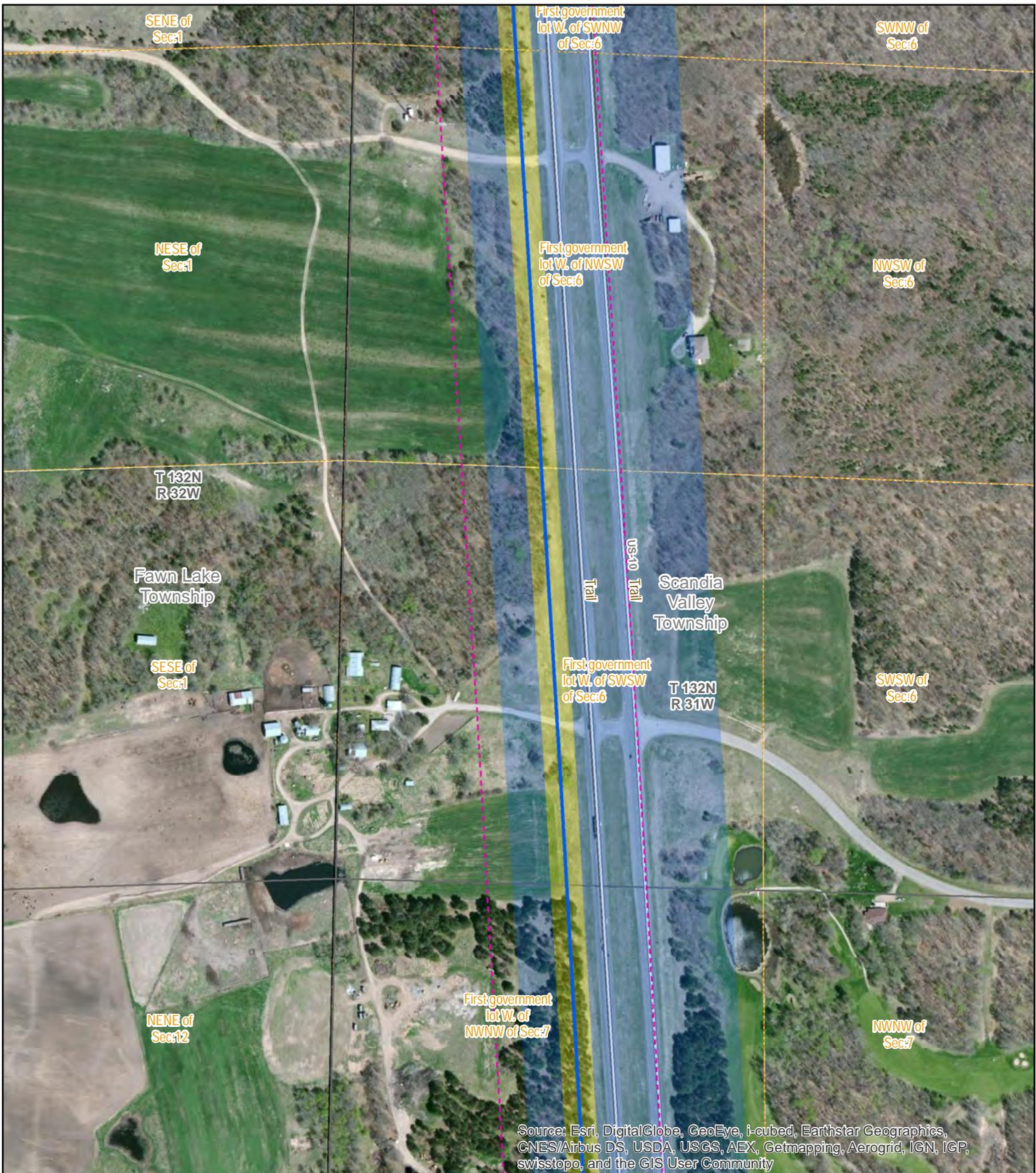
- Minnesota Pipe Line**
- Proposed Pump Station
 - Existing Pipeline
- Minnesota Power**
- Proposed Route
 - Proposed Substation Expansion
 - Proposed 115 kV Transmission Line
 - Existing 230 kV Transmission Line
 - Existing 115 kV Transmission Line
 - Existing 34.5 kV Sub-Transmission Line

- Existing Transmission Substation
 - Existing Distribution Substation
- Structure**
- Residence 0-50' (0)
 - Residence 50-100' (0)
 - Residence 100-150' (1)
 - Residence 150-250' (1)
 - Commercial / Industrial 50-250' (0)
 - Non-Residential Building 0-250' (2)
 - 250' from Alignment

Motley Area 115 kV Project
Detailed Route Maps
Map Sheet 24 of 31
 Common Route Map 9

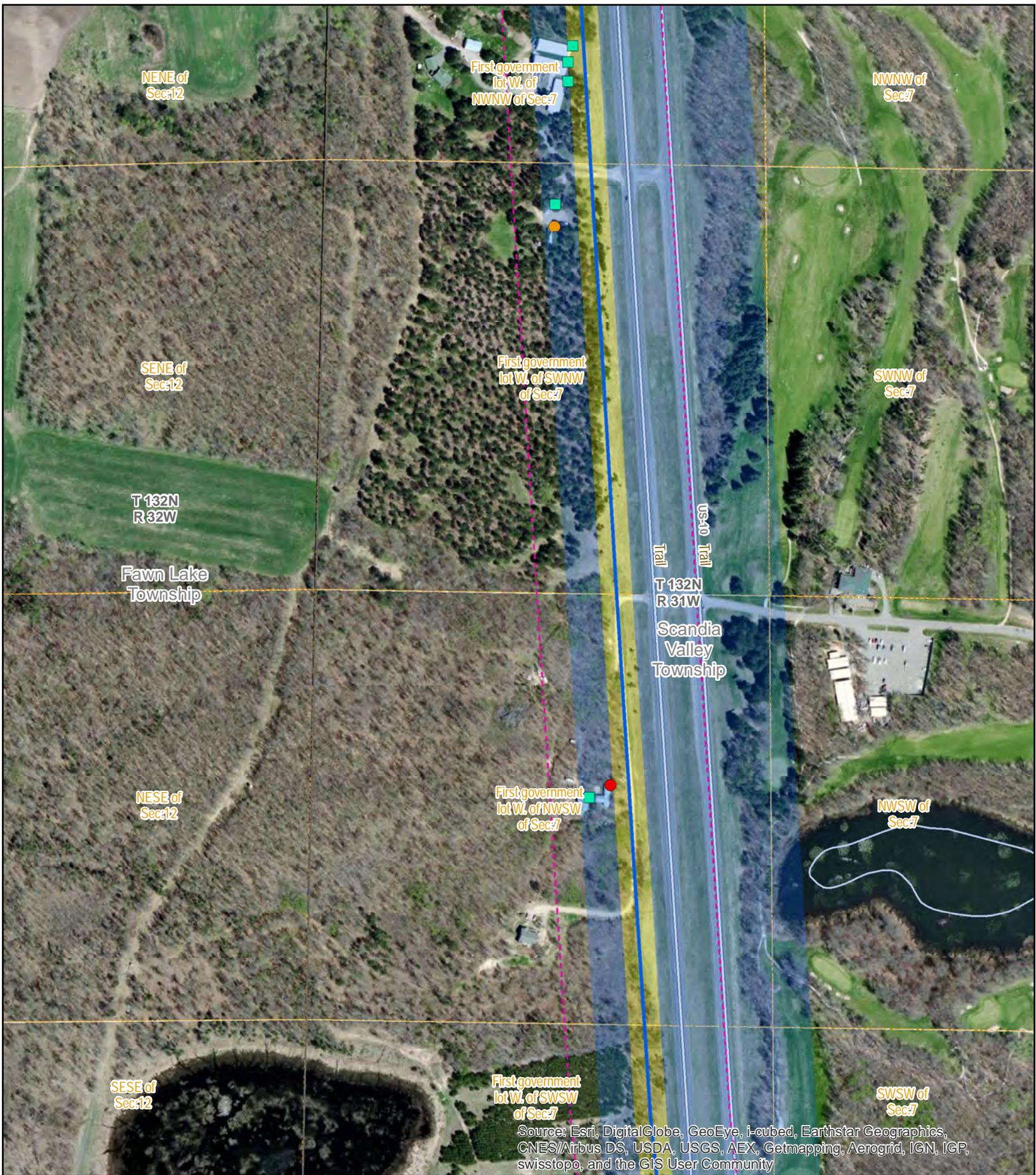
0 50 100 200 Feet
 GIS Data sources include:
 MNGEO, MNDNR, MNDOT, and Great River Energy.

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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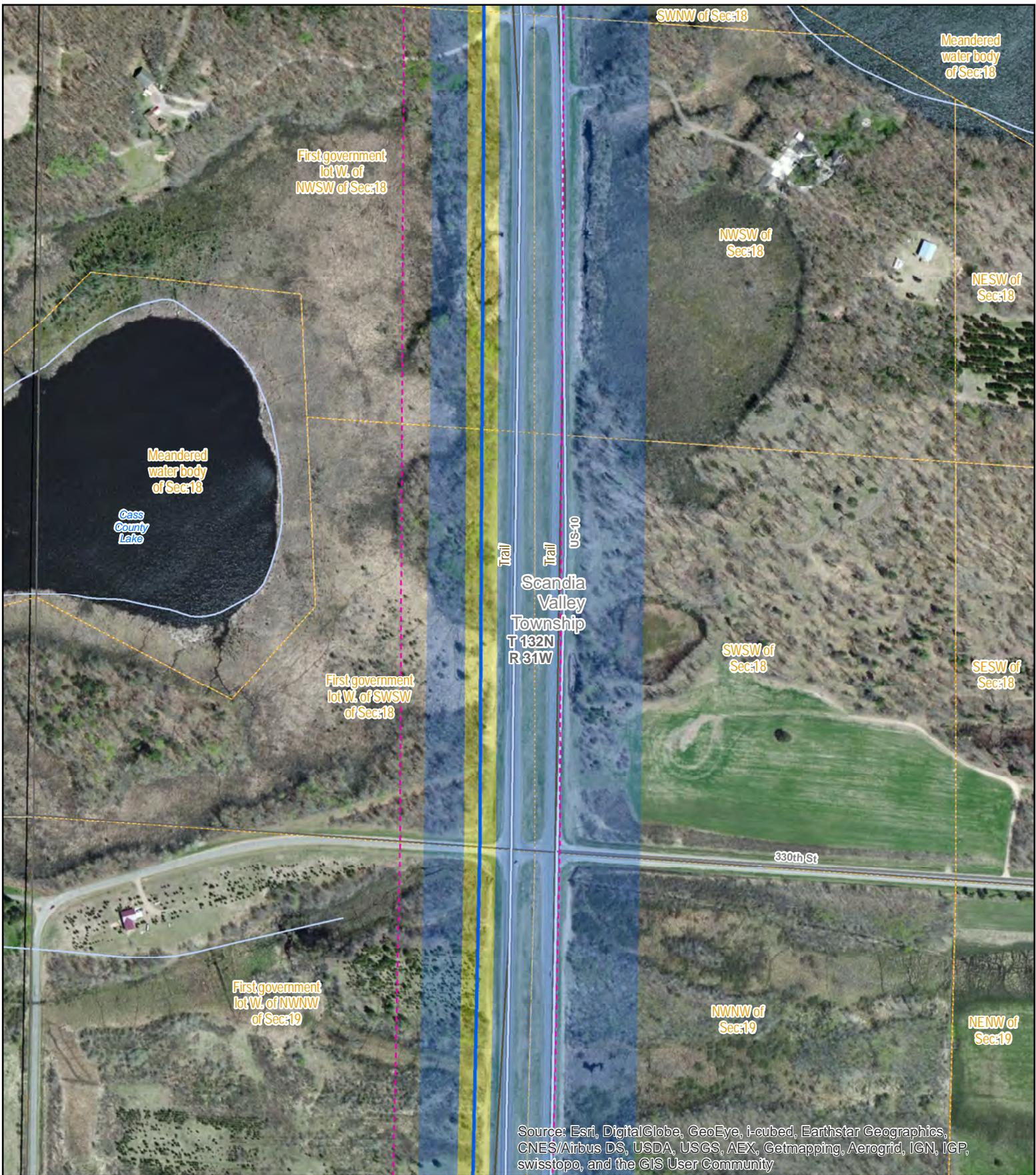


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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Great River Energy**
- Proposed Route
 - Proposed Easement Area (100' width)
 - Common Route - Proposed 115 kV Line
 - West Route Option - Proposed 115 kV Line
 - East Route Option - Proposed 115 kV Line
 - Existing Transmission Substation
- Crow Wing Power**
- Proposed Distribution Substation
 - Existing Distribution Substation

- Minnesota Pipe Line**
- Proposed Pump Station
 - Existing Pipeline
- Minnesota Power**
- Proposed Route
 - Proposed Substation Expansion
 - Proposed 115 kV Transmission Line
 - Existing 230 kV Transmission Line
 - Existing 115 kV Transmission Line
 - Existing 34.5 kV Sub-Transmission Line

- Existing Transmission Substation
 - Existing Distribution Substation
- Structure**
- Residence 0-50' (0)
 - Residence 50-100' (0)
 - Residence 100-150' (0)
 - Residence 150-250' (0)
 - Commercial / Industrial 50-250' (0)
 - Non-Residential Building 0-250' (0)
 - 250' from Alignment

Motley Area 115 kV Project
Detailed Route Maps
Map Sheet 28 of 31
 Common Route Map 13

0 50 100 200 Feet
 GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy.

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Source: Esri, DigitalGlobe, GeoEye, V-Cube, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

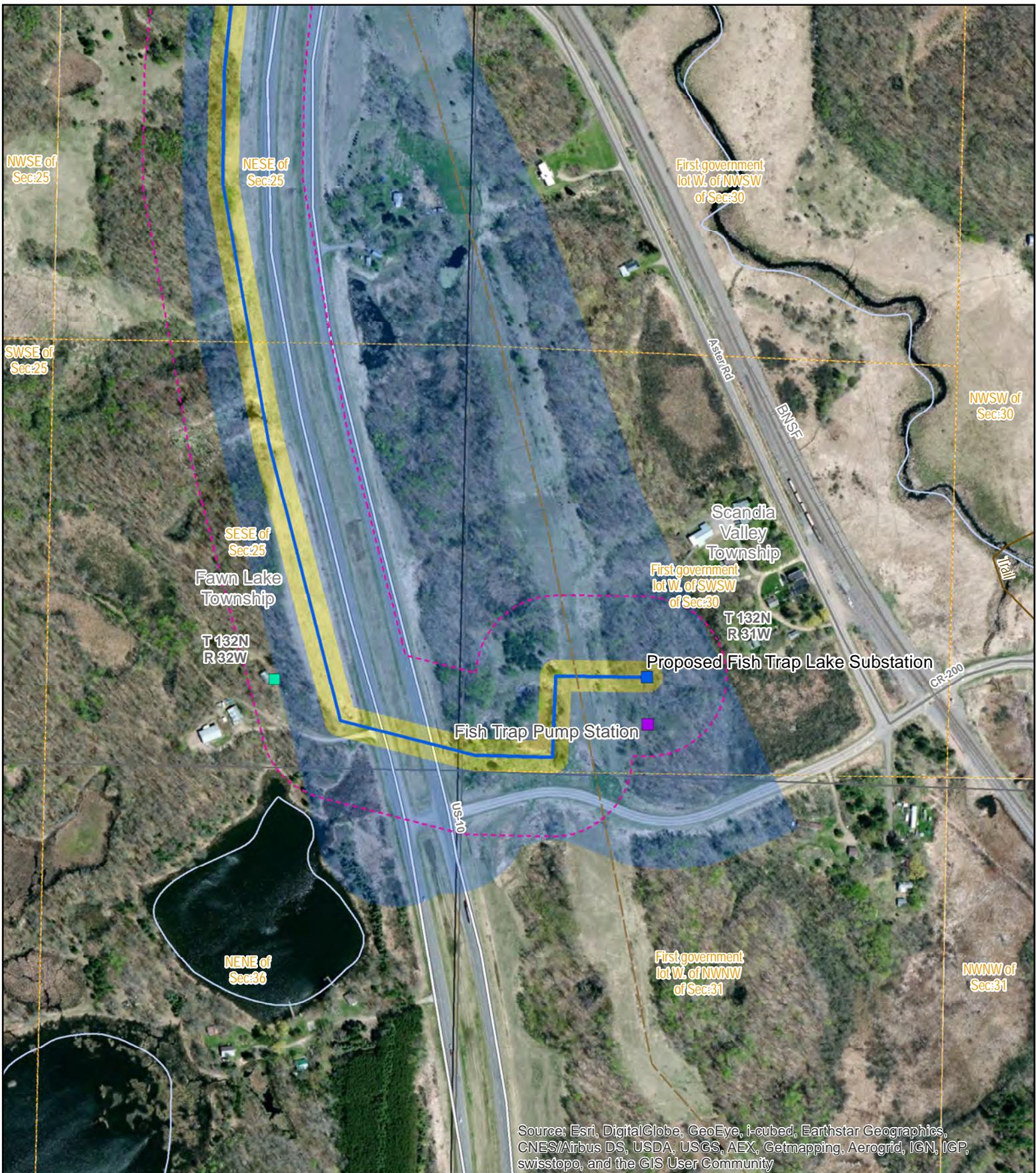
- | | |
|--|--|
| Great River Energy | Minnesota Pipe Line |
| Proposed Route | Proposed Pump Station |
| Proposed Easement Area (100' width) | Existing Pipeline |
| Common Route - Proposed 115 kV Line | Minnesota Power |
| West Route Option - Proposed 115 kV Line | Proposed Route |
| East Route Option - Proposed 115 kV Line | Proposed Substation Expansion |
| Existing Transmission Substation | Proposed 115 kV Transmission Line |
| Crow Wing Power | Existing 230 kV Transmission Line |
| Proposed Distribution Substation | Existing 115 kV Transmission Line |
| Existing Distribution Substation | Existing 34.5 kV Sub-Transmission Line |

- | |
|---------------------------------------|
| ▲ Existing Transmission Substation |
| ● Existing Distribution Substation |
| Structure |
| ● Residence 0-50' (0) |
| ● Residence 50-100' (0) |
| ● Residence 100-150' (0) |
| ● Residence 150-250' (0) |
| ★ Commercial / Industrial 50-250' (0) |
| ■ Non-Residential Building 0-250' (4) |
| ■ 250' from Alignment |

Motley Area 115 kV Project
Detailed Route Maps
Map Sheet 30 of 31
 Common Route Map 15

0 50 100 200 Feet
 GIS Data sources include:
 MNGEO, MNDNR, MNDOT, and Great River Energy.

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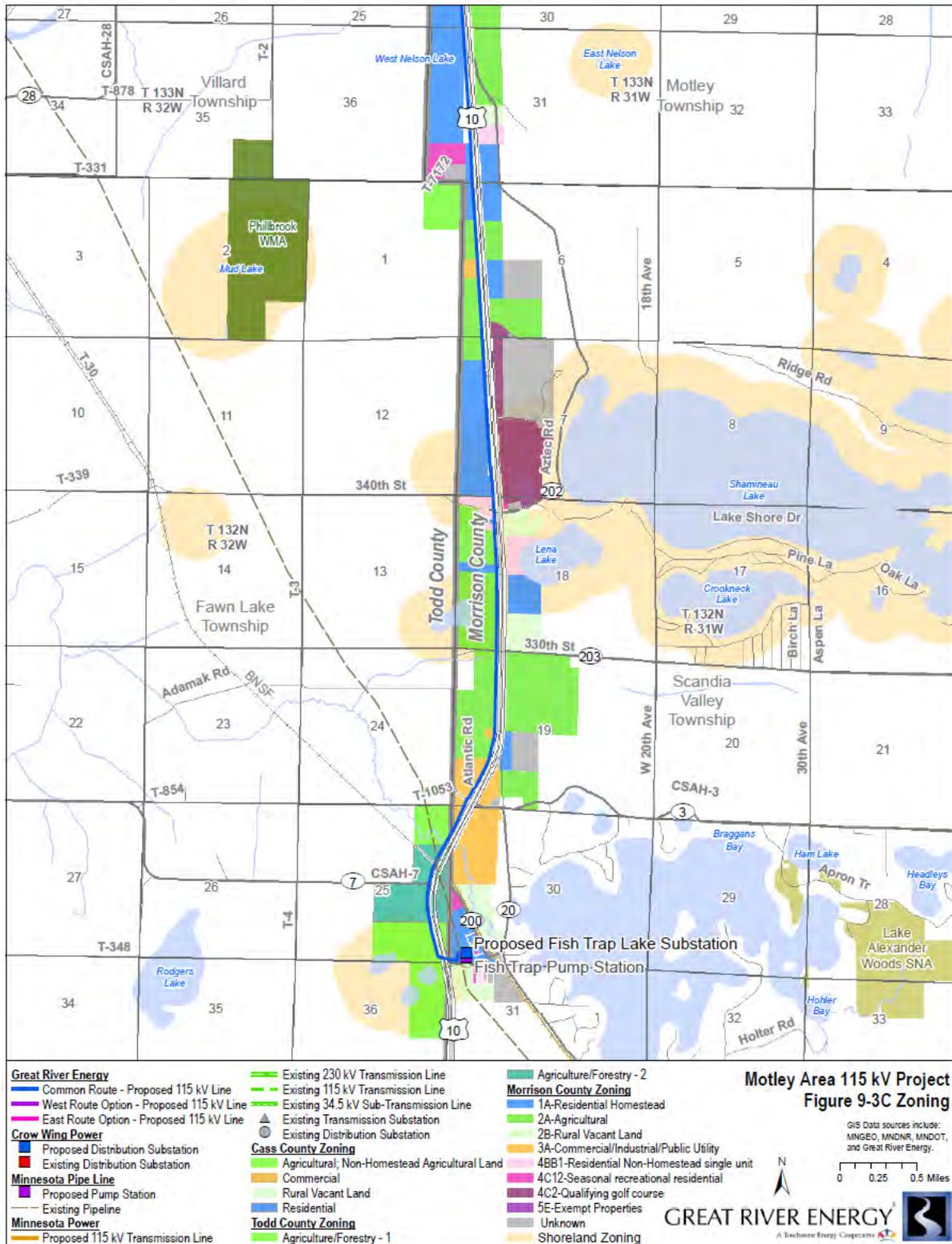


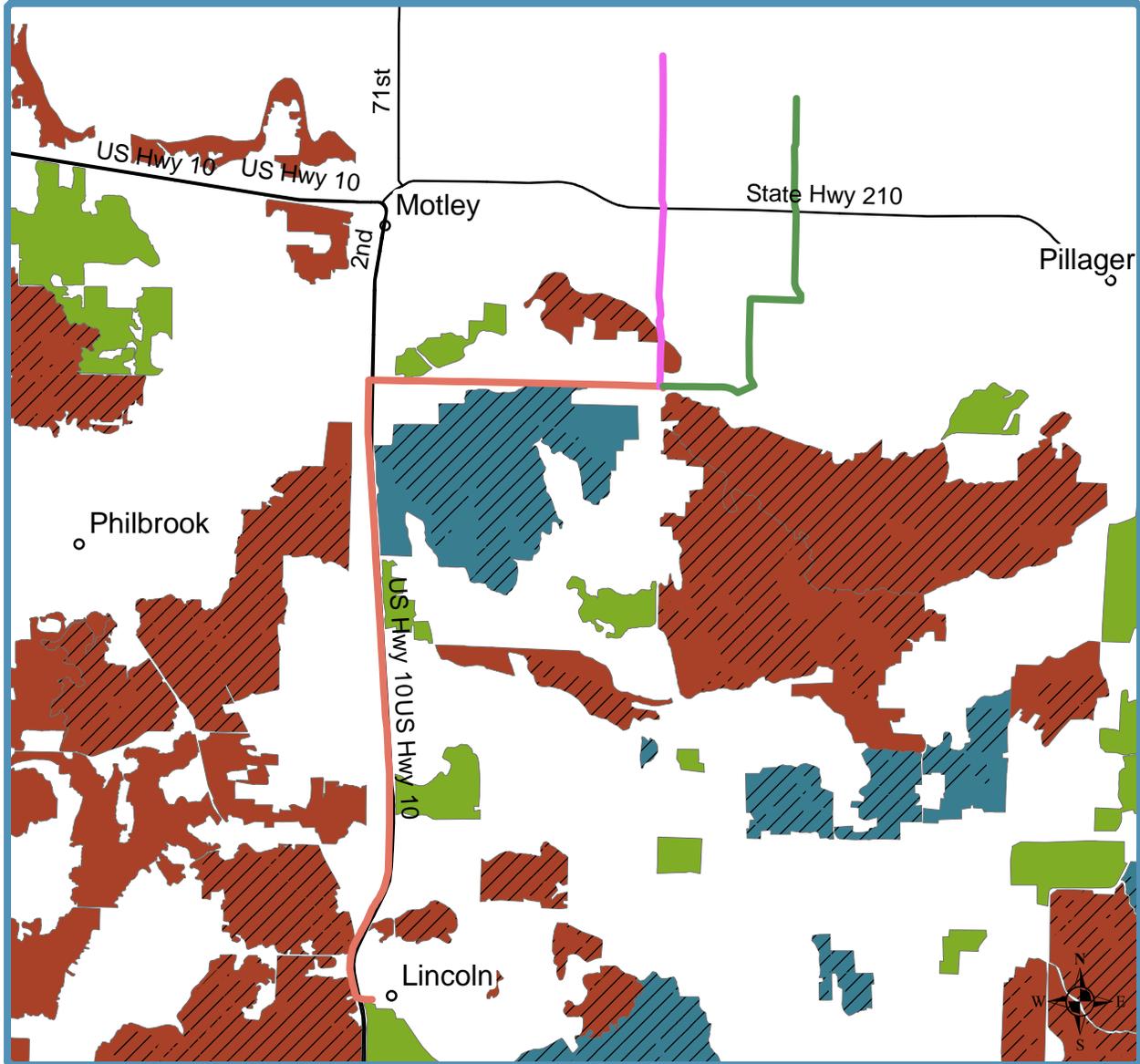
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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Appendix E. Resource Maps

Resource Map E1. Zoning-South





Legend

Applicants Proposed Anticipated Alignments

- Common Route - Proposed 115 kV Transmission Line
- East Route Option - Proposed 115 kV Transmission Line
- West Route Option - Proposed 115 kV Transmission Line

//// Native Plant Communities

— Roads

Sites of Biodiversity

- Below
- High
- Moderate
- Outstanding