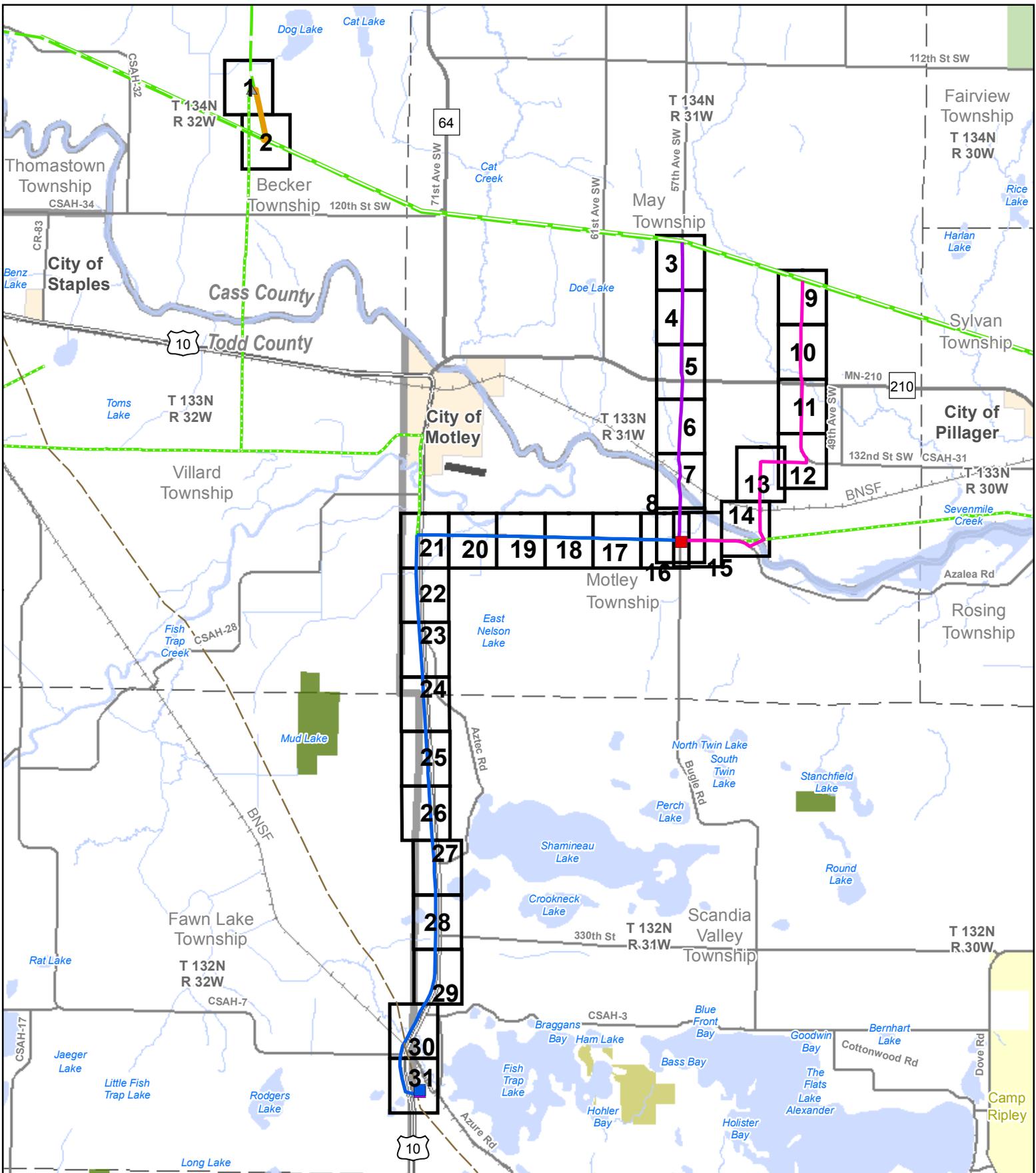


APPENDIX F

Detailed Route & Conceptual Alignment Maps

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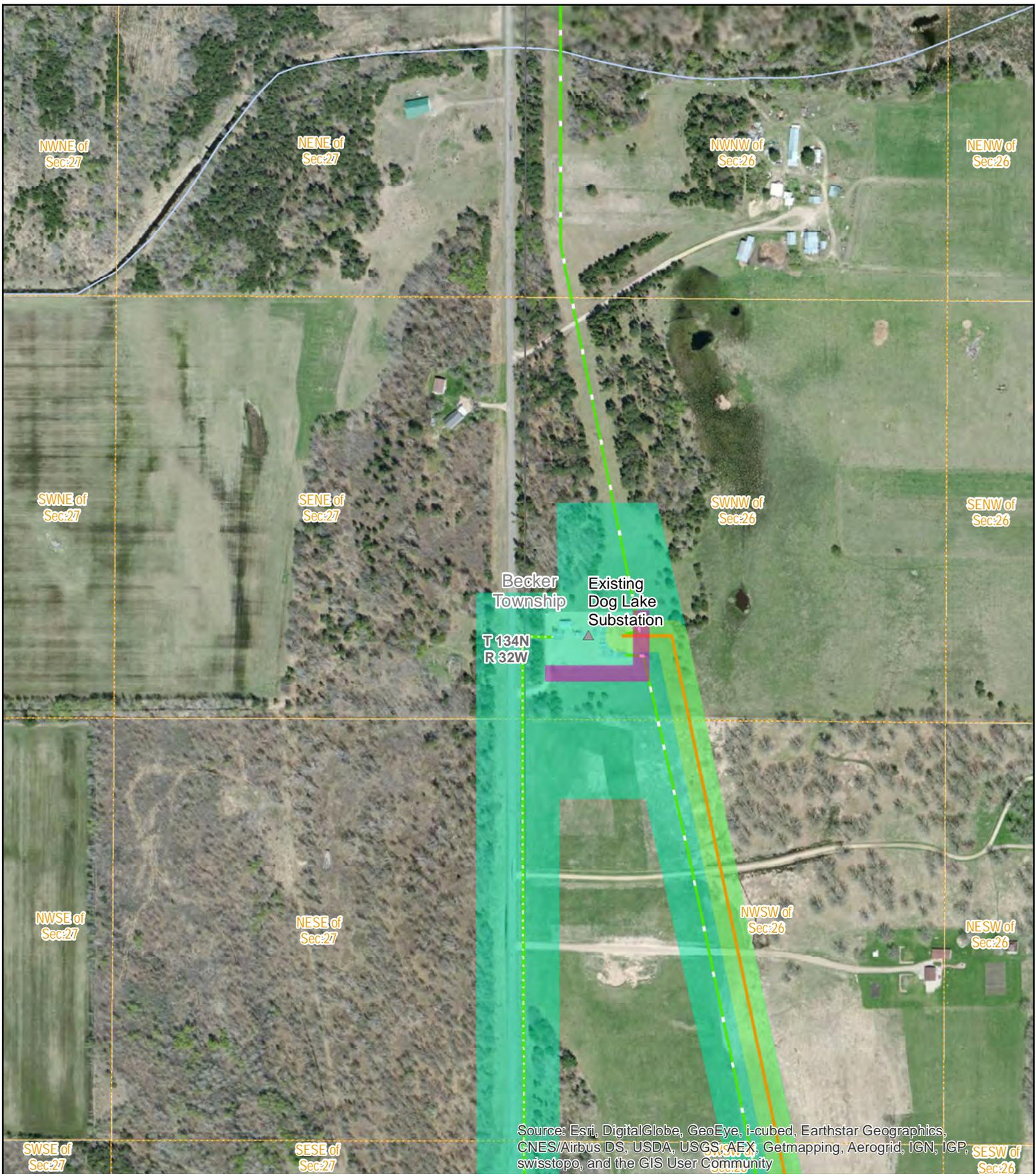
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|---|--|-------------------|
| Great River Energy | Minnesota Pipe Line | Appendix F |
| Common Route - Proposed 115 kV Transmission Line | Proposed Pump Station | Map Grid |
| East Route Option - Proposed 115 kV Transmission Line | Existing Pipeline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

Motley Area 115 kV Project
Appendix F - Detailed Route Maps
Key

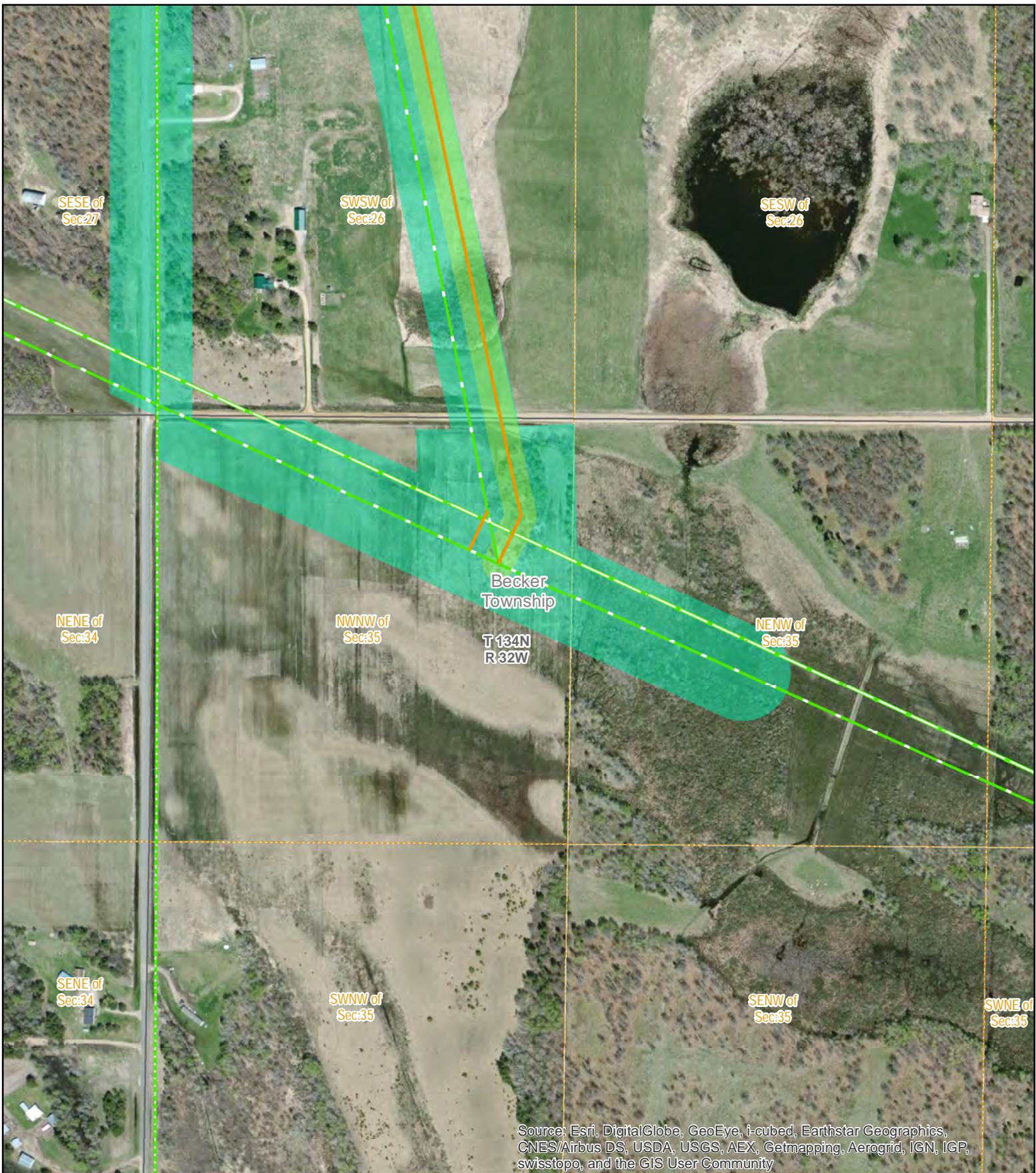
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0 0.5 1 Miles
GIS Data sources include:
MNGEO, MNDNR, MNDOT, and Great River Energy.

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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 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;">Appendix F - Detailed Route Maps</h3> <h3 style="text-align: center;">Map Sheet 1 of 31</h3> <p style="text-align: right;">Dog Lake Map 1</p> <p>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 <small>A Touchstone Energy Cooperative</small></p> | |
|---|--|--|--|---|--|--|--|



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

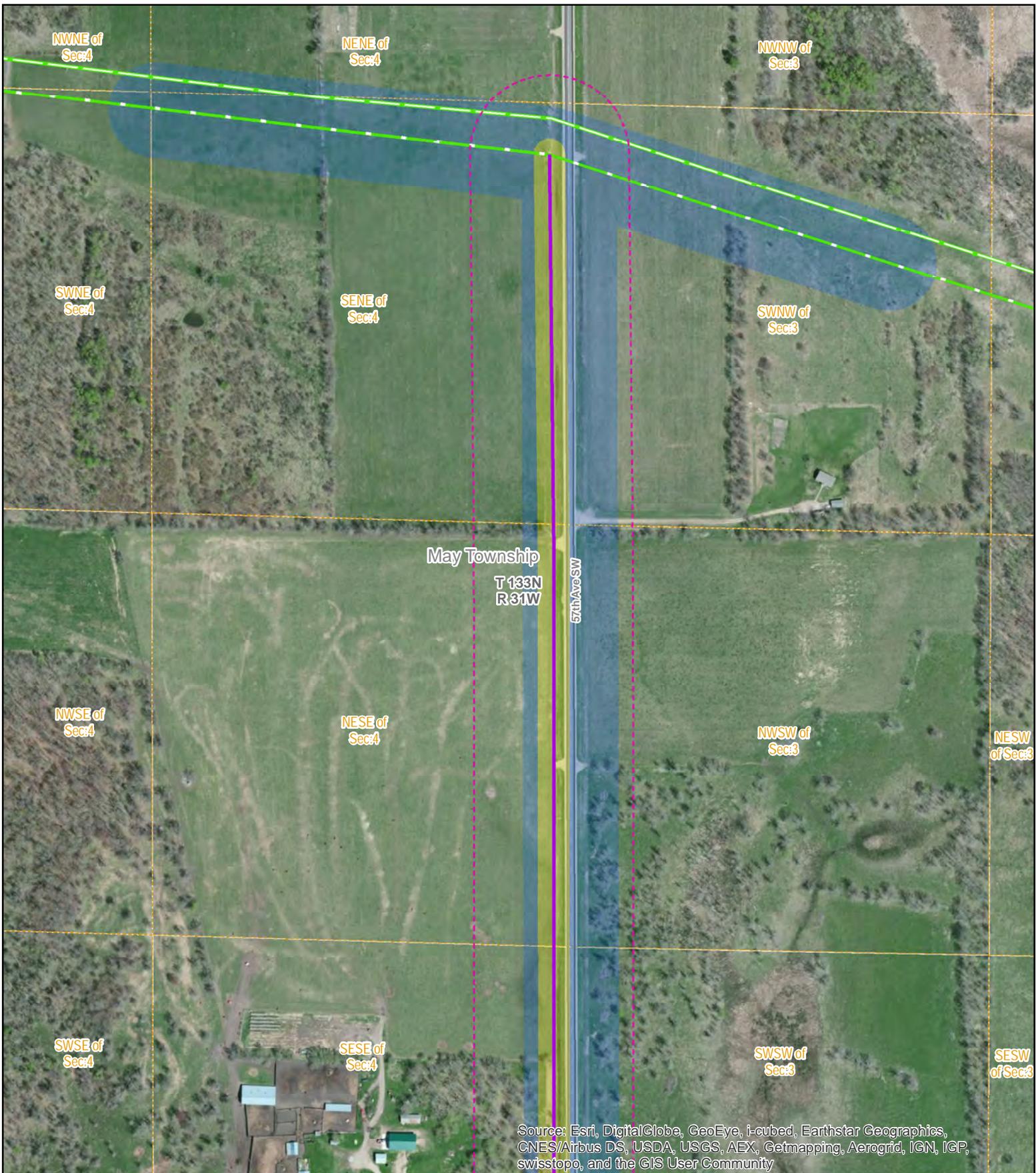
Appendix F - Detailed Route Maps

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.

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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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| 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 | | Motley Area 115 kV Project Appendix F - Detailed Route Maps Map Sheet 3 of 31 West Route Option Map 1 Scale: 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, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

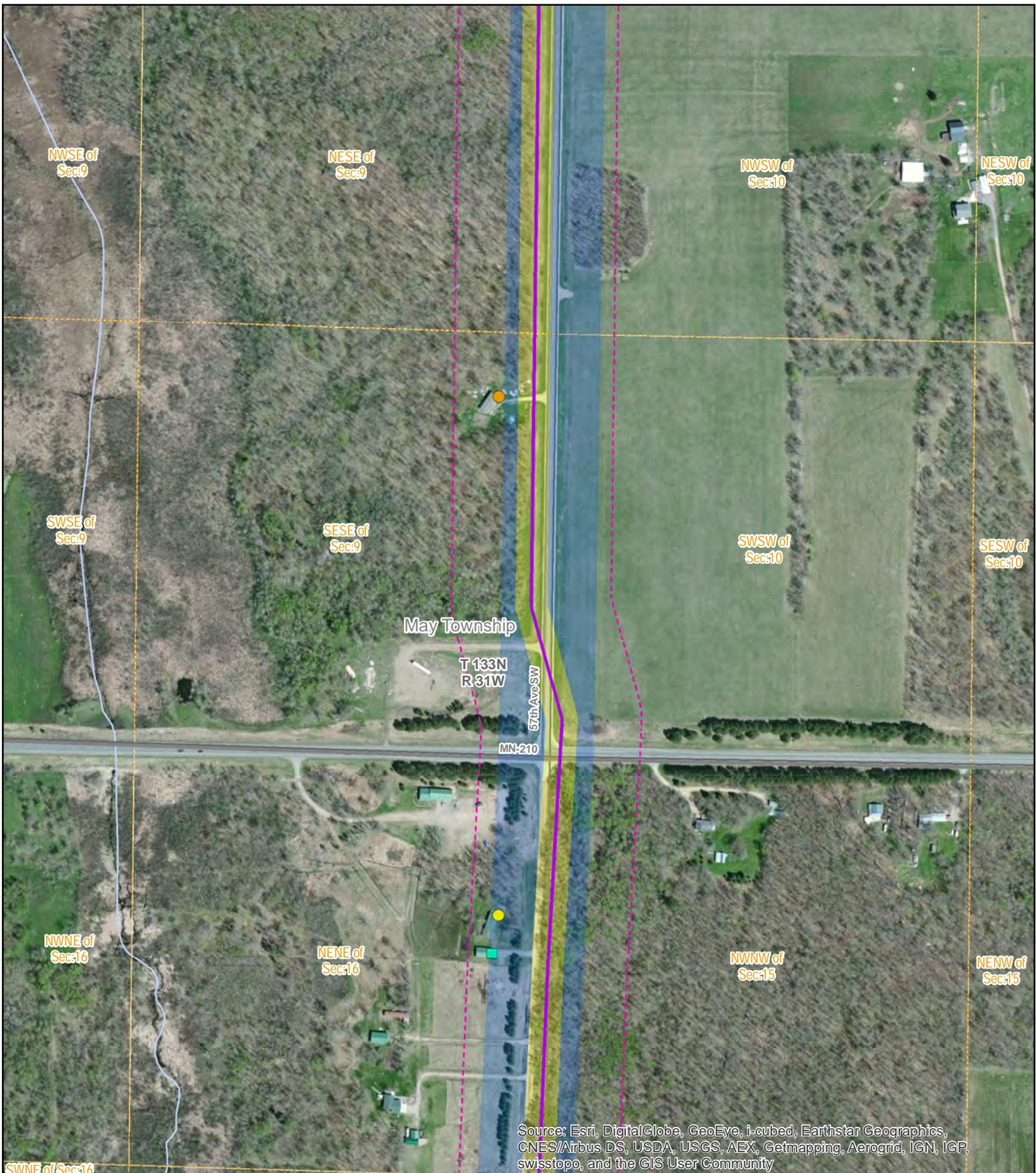
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|---|--|--|--|---|--|
| Great River Energy Proposed Route Proposed Easement Area (100' width) Common Route - Proposed 115 kV Line West Route Option - Proposed 115 kV Line East Route Option - Proposed 115 kV Line Existing Transmission Substation Existing 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 | |
|---|--|--|--|---|--|

Motley Area 115 kV Project
Appendix F - Detailed Route Maps
Map Sheet 4 of 31
 West Route Option Map 2

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

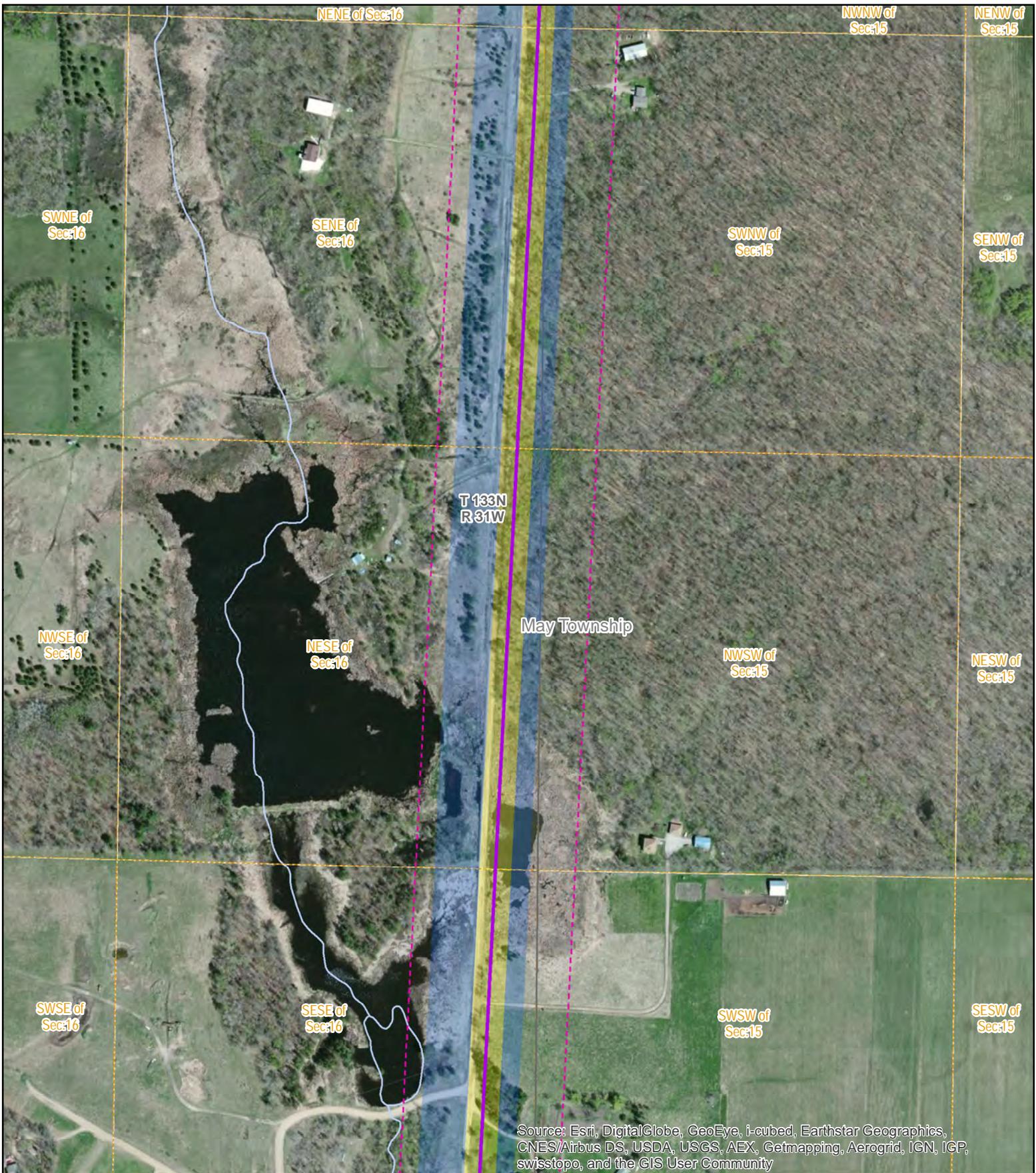
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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|---|--|--|--|---|--|---|--|
| 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' (1) Residence 150-250' (1) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (1) 250' from Alignment | | <h2>Motley Area 115 kV Project</h2> <h3>Appendix F - Detailed Route Maps</h3> <h4>Map Sheet 5 of 31</h4> <p>West Route Option Map 3</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

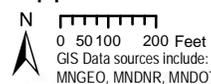
- Residence 0-50' (0)
- Residence 50-100' (1)
- Residence 100-150' (0)
- Residence 150-250' (0)
- Commercial / Industrial 50-250' (0)
- Non-Residential Building 0-250' (0)
- 250' from Alignment

Motley Area 115 kV Project

Appendix F - Detailed Route Maps

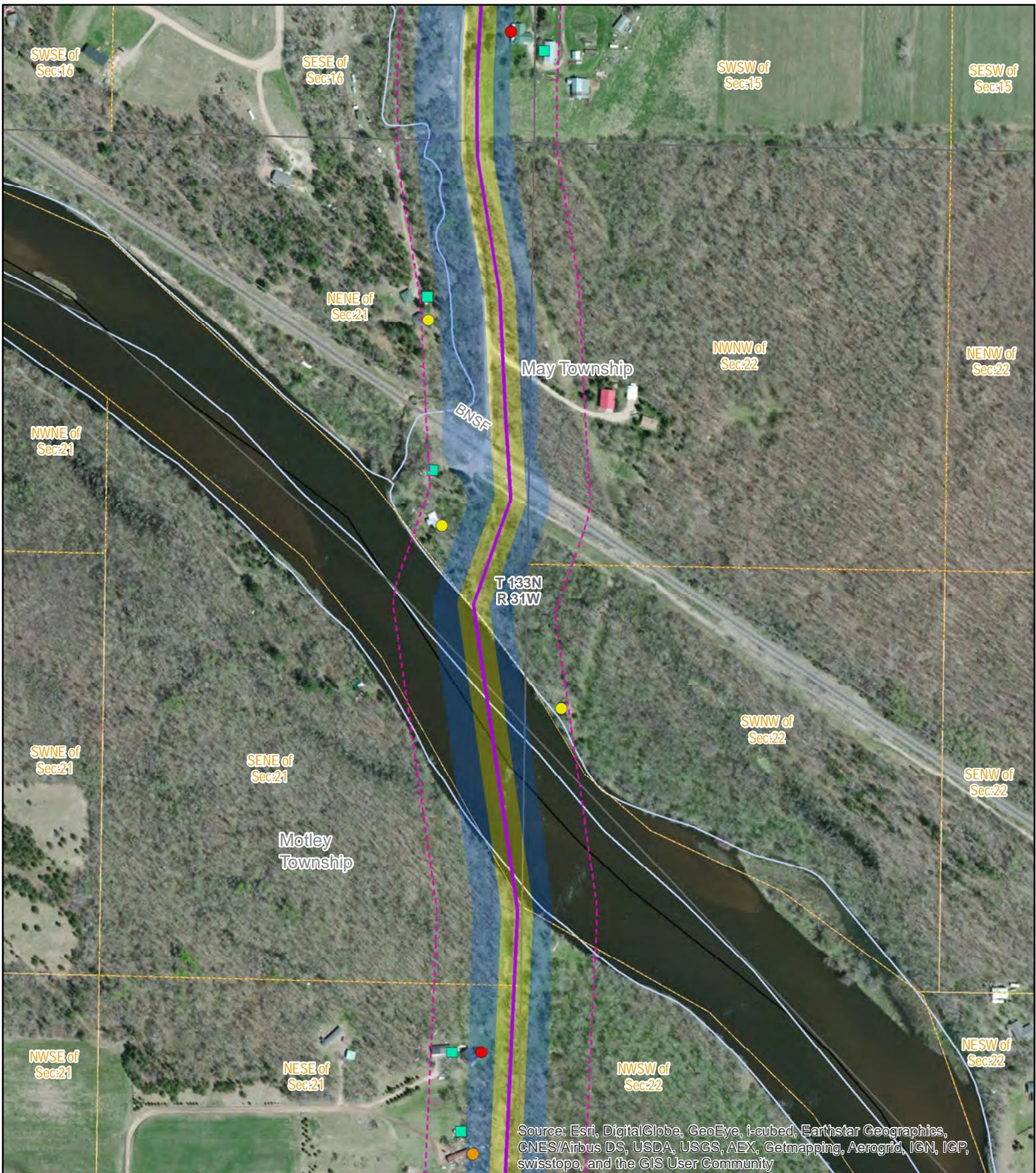
Map Sheet 6 of 31

West Route Option Map 4



GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy.





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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| 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 |

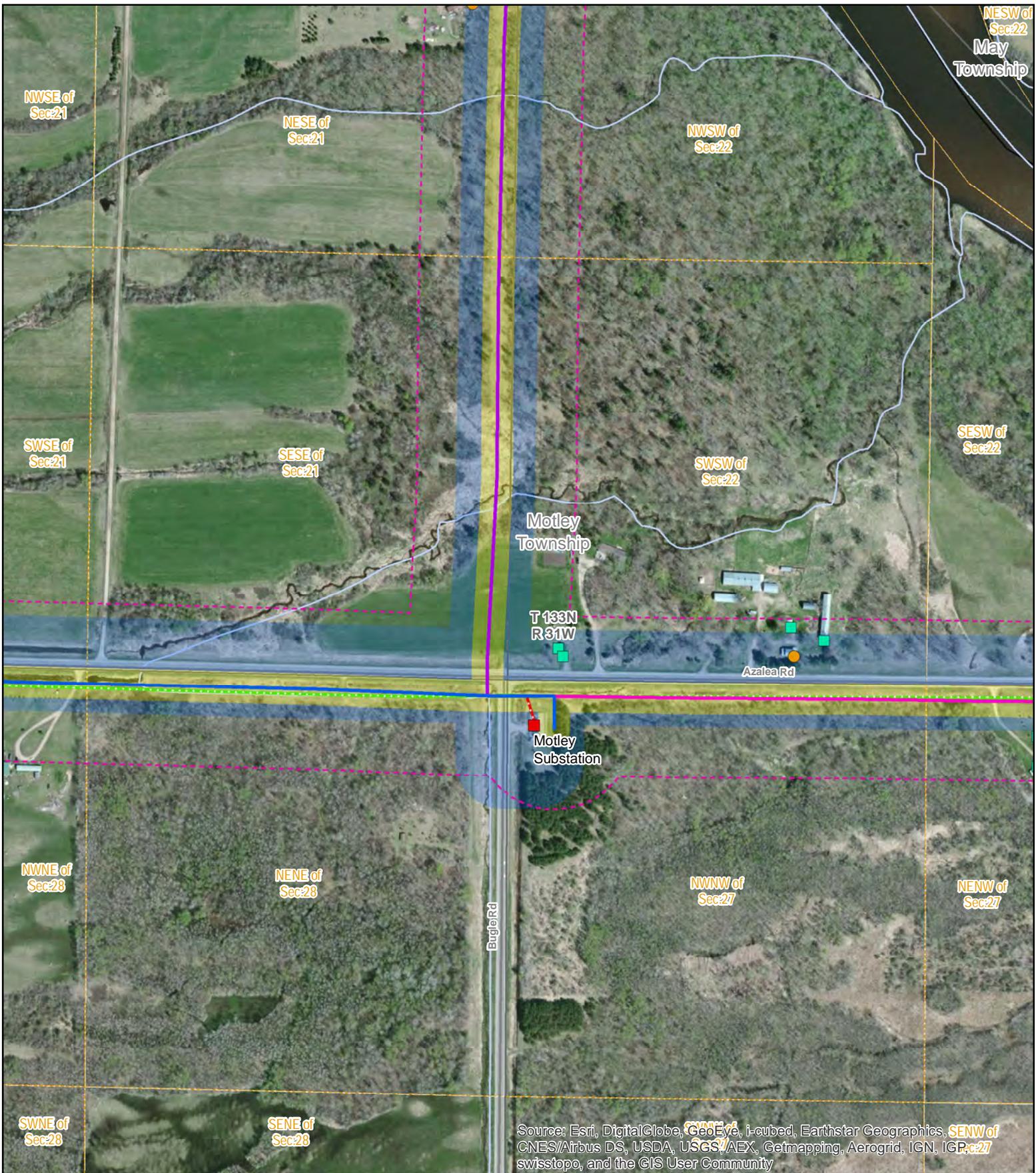
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|-------------------------------------|
| Existing Transmission Substation |
| Existing Distribution Substation |
| Structure |
| Residence 0-50' (0) |
| Residence 50-100' (2) |
| Residence 100-150' (1) |
| Residence 150-250' (3) |
| Commercial / Industrial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

Motley Area 115 kV Project
Appendix F - Detailed Route Maps
Map Sheet 7 of 31
 West Route Option Map 5

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

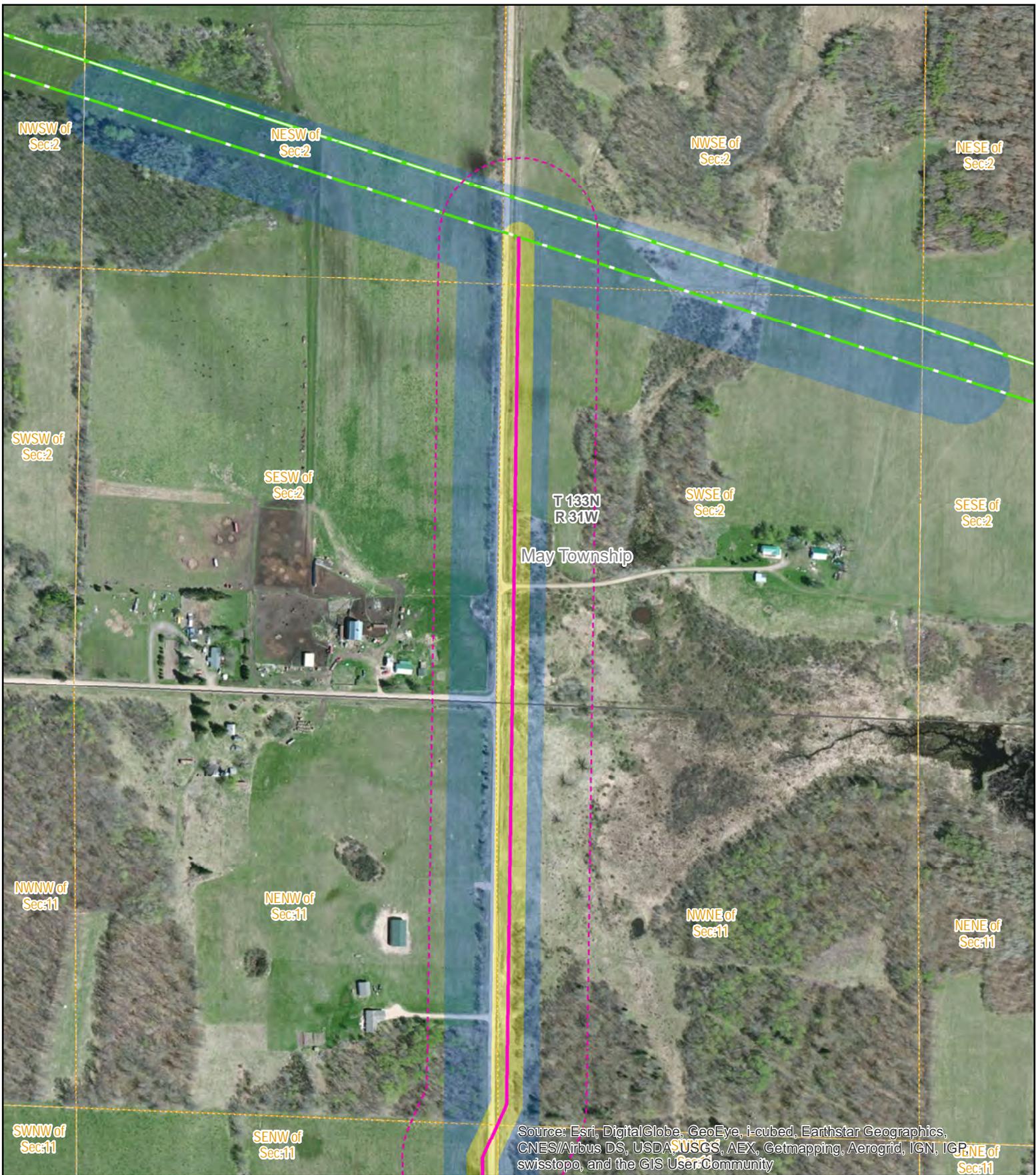
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, IGR, swisstopo, and the GIS User Community

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|--|---|--|--|
| <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: center;">Motley Area 115 kV Project</p> <p style="text-align: center;">Appendix F - Detailed Route Maps</p> <p style="text-align: center;">Map Sheet 8 of 31</p> <p style="text-align: right;">West Route Option Map 6</p> <p>0 50 100 200 Feet GIS Data sources include: MINGEO, MNDNR, MNDOT, and Great River Energy.</p> <p style="text-align: right;">GREAT RIVER ENERGY A Touchstone Energy Cooperative</p> |
|--|---|--|--|



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

Motley Area 115 kV Project

Appendix F - Detailed Route Maps

Map Sheet 9 of 31

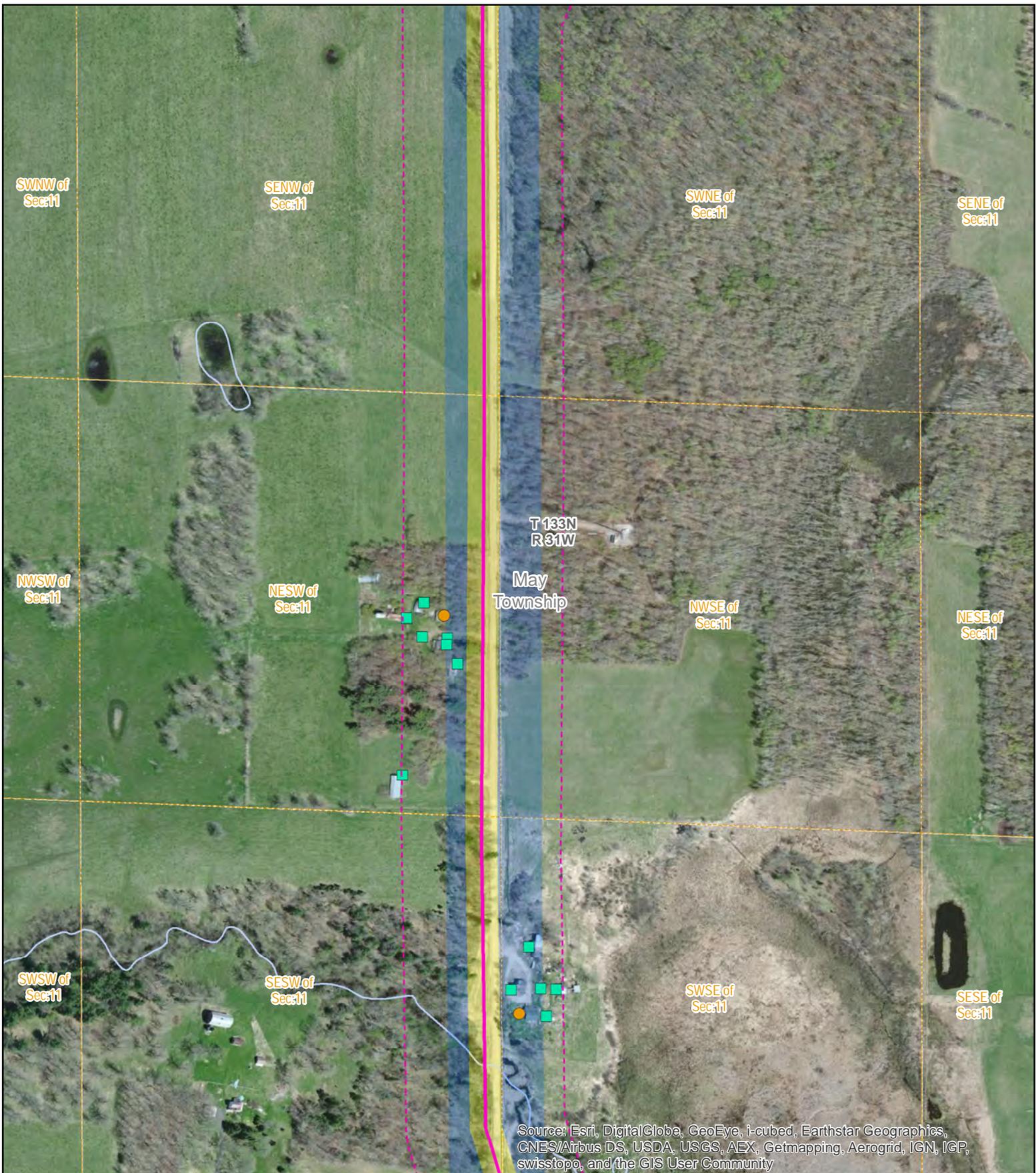
East Route Option Map 1

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

Motley Area 115 kV Project

Appendix F - Detailed Route Maps

Map Sheet 10 of 31

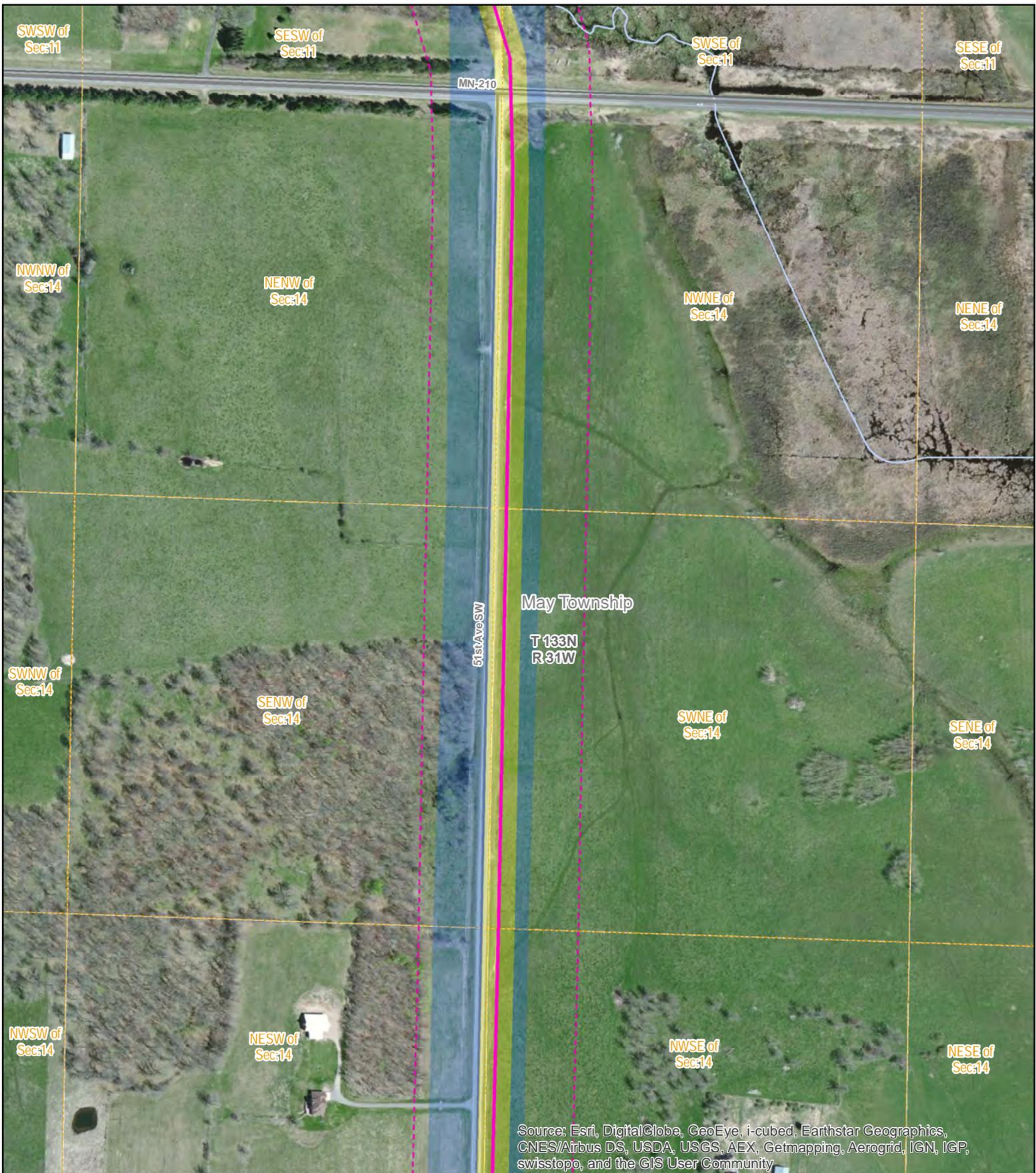
East Route Option Map 2

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' (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
Appendix F - Detailed Route Maps
 Map Sheet 11 of 31
 East Route Option 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

- 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' (2)
 - Commercial / Industrial 50-250' (0)
 - Non-Residential Building 0-250' (5)
 - 250' from Alignment

Motley Area 115 kV Project

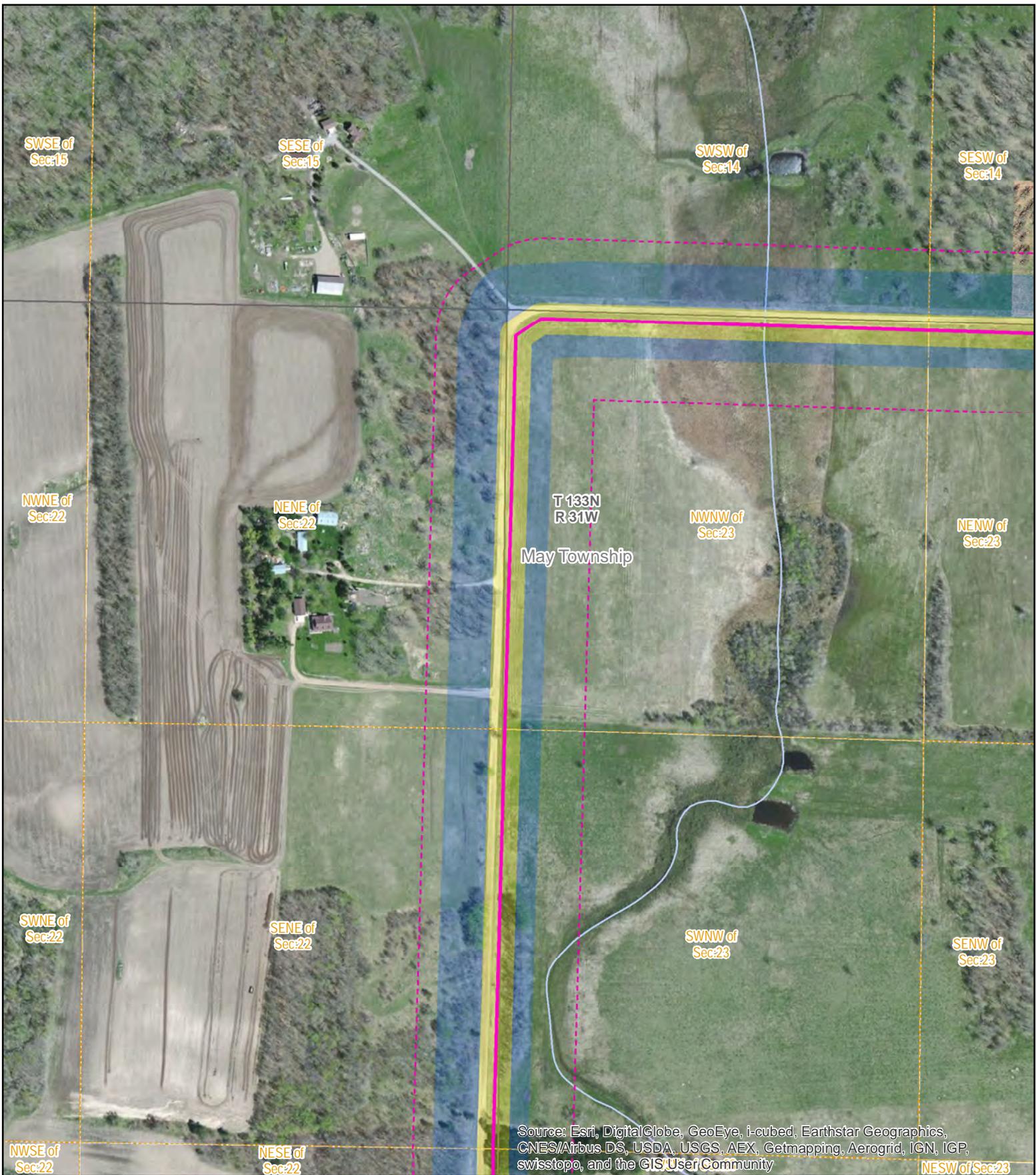
Appendix F - Detailed Route Maps

Map Sheet 12 of 31

East Route Option Map 4

0 50 100 200 Feet
GIS Data sources include:
MINGEO, 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

Appendix F - Detailed Route Maps

Map Sheet 13 of 31

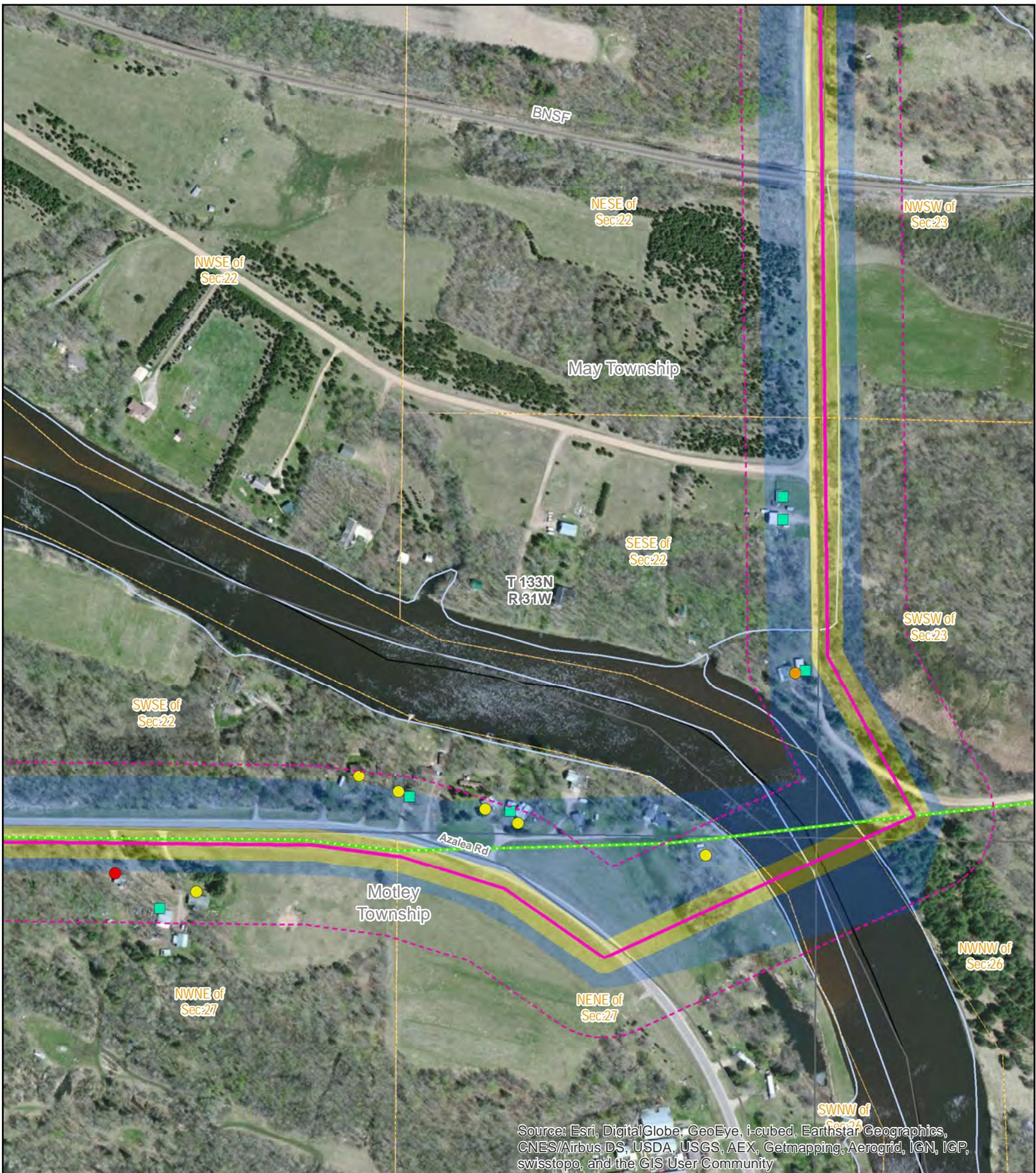
East Route Option Map 5

Scale: 0 50 100 200 Feet

GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy.

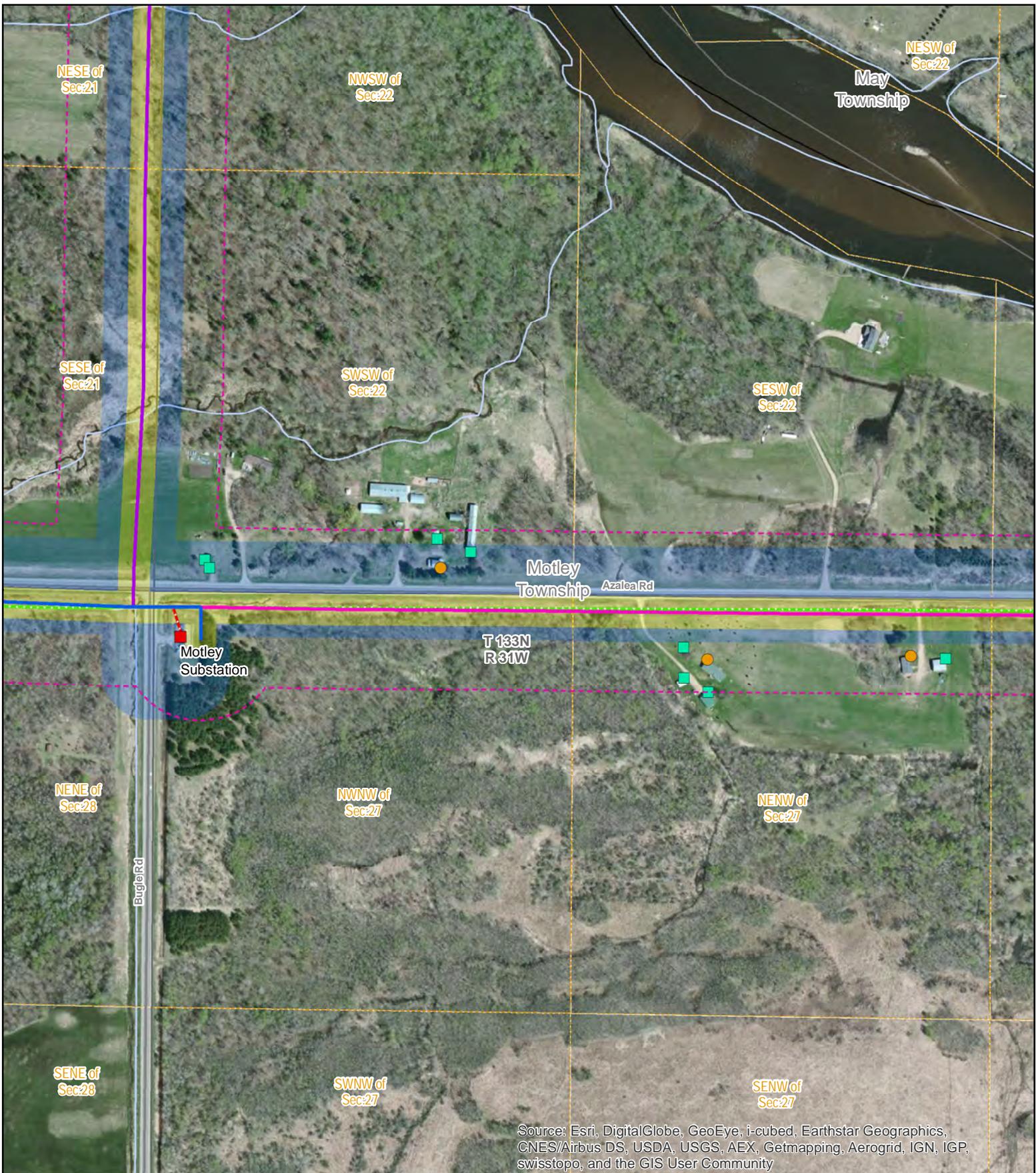
GREAT RIVER ENERGY

A Touchstone Energy Cooperative



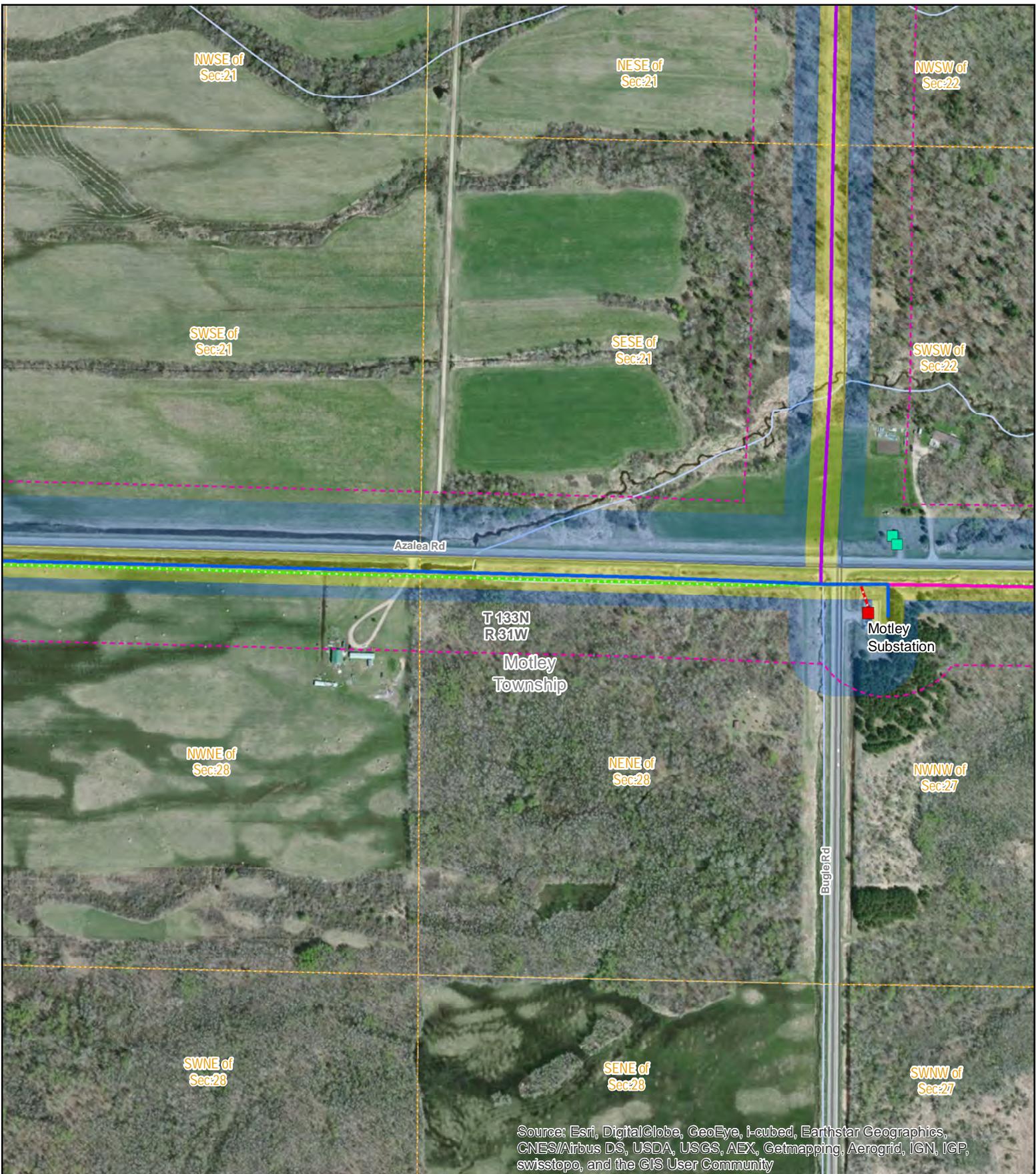
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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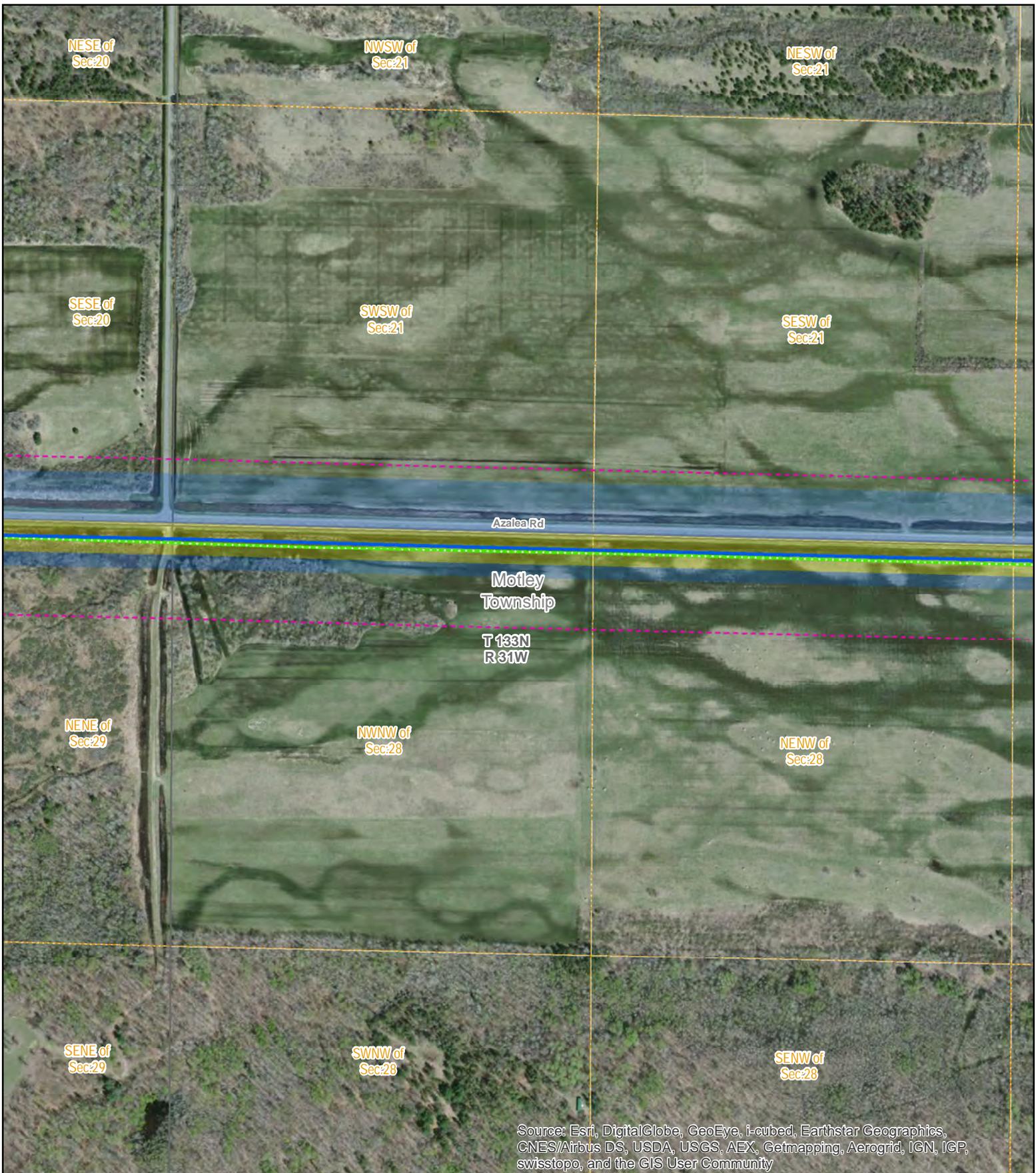
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

| | | | | | | | |
|---|--|--|--|---|--|--|--|
| 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 | | <h3>Motley Area 115 kV Project</h3> <h2>Appendix F - Detailed Route Maps</h2> <h3>Map Sheet 15 of 31</h3> <p>East Route Option Map 7</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' (0) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (2) 250' from Alignment | | <h2 style="text-align: center;">Motley Area 115 kV Project</h2> <h3 style="text-align: center;">Appendix F - Detailed Route Maps</h3> <h3 style="text-align: center;">Map Sheet 16 of 31</h3> <p style="text-align: center;">Common Route Map 1</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> | |
|---|--|--|--|---|--|---|--|



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

Appendix F - Detailed Route Maps

Map Sheet 17 of 31

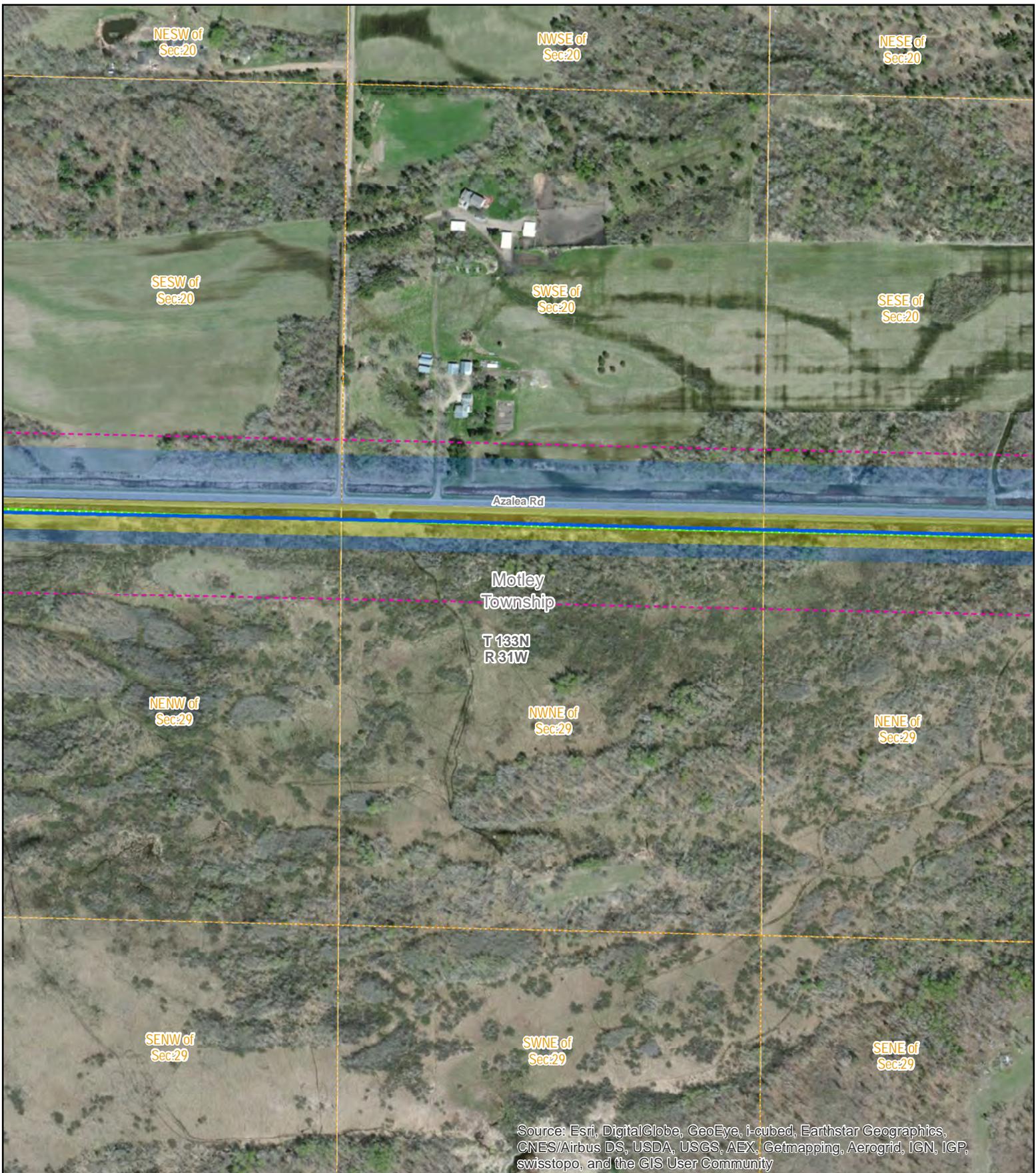
Common Route Map 2

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

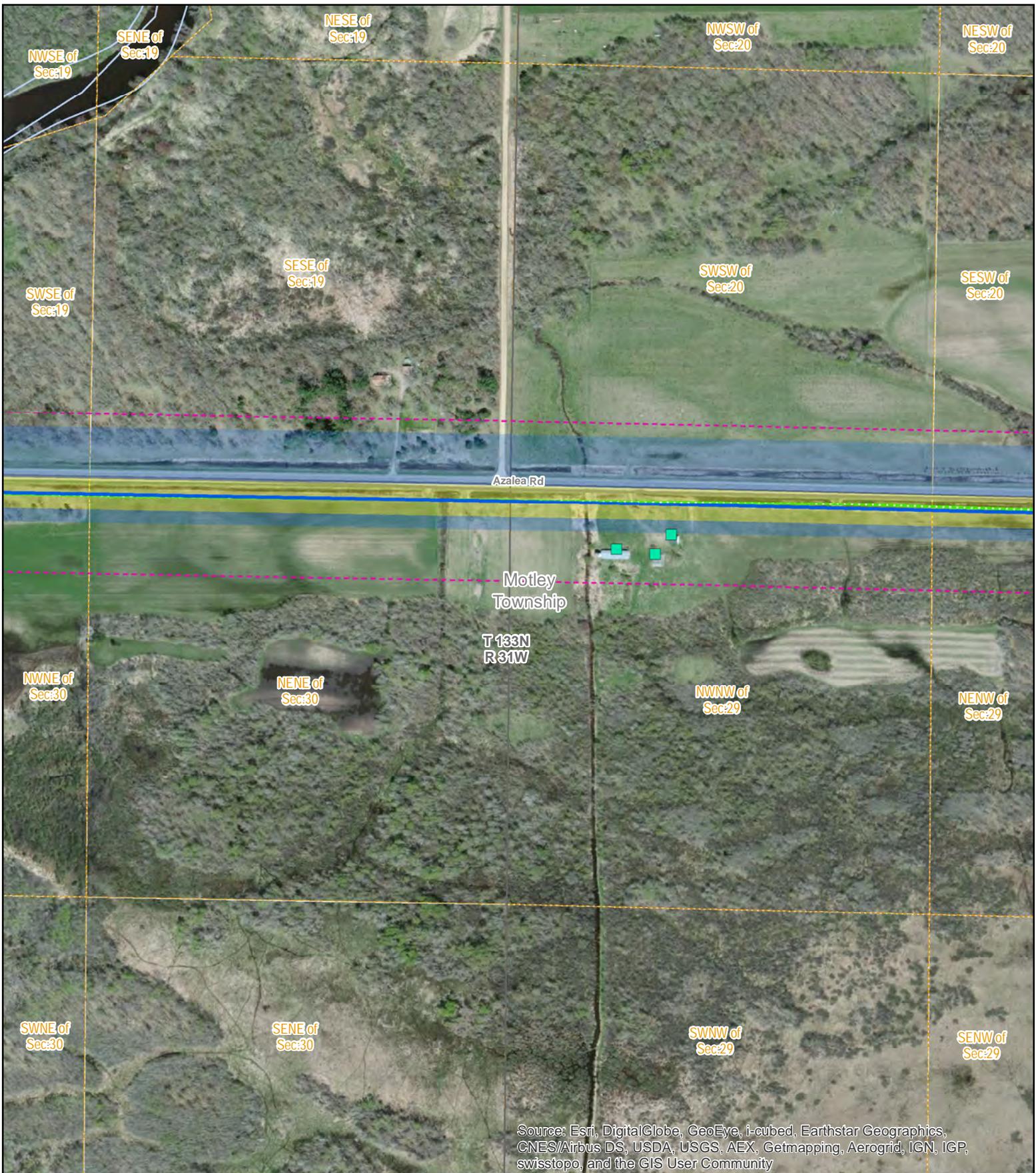
Appendix F - Detailed Route Maps

Map Sheet 18 of 31

Common Route Map 3

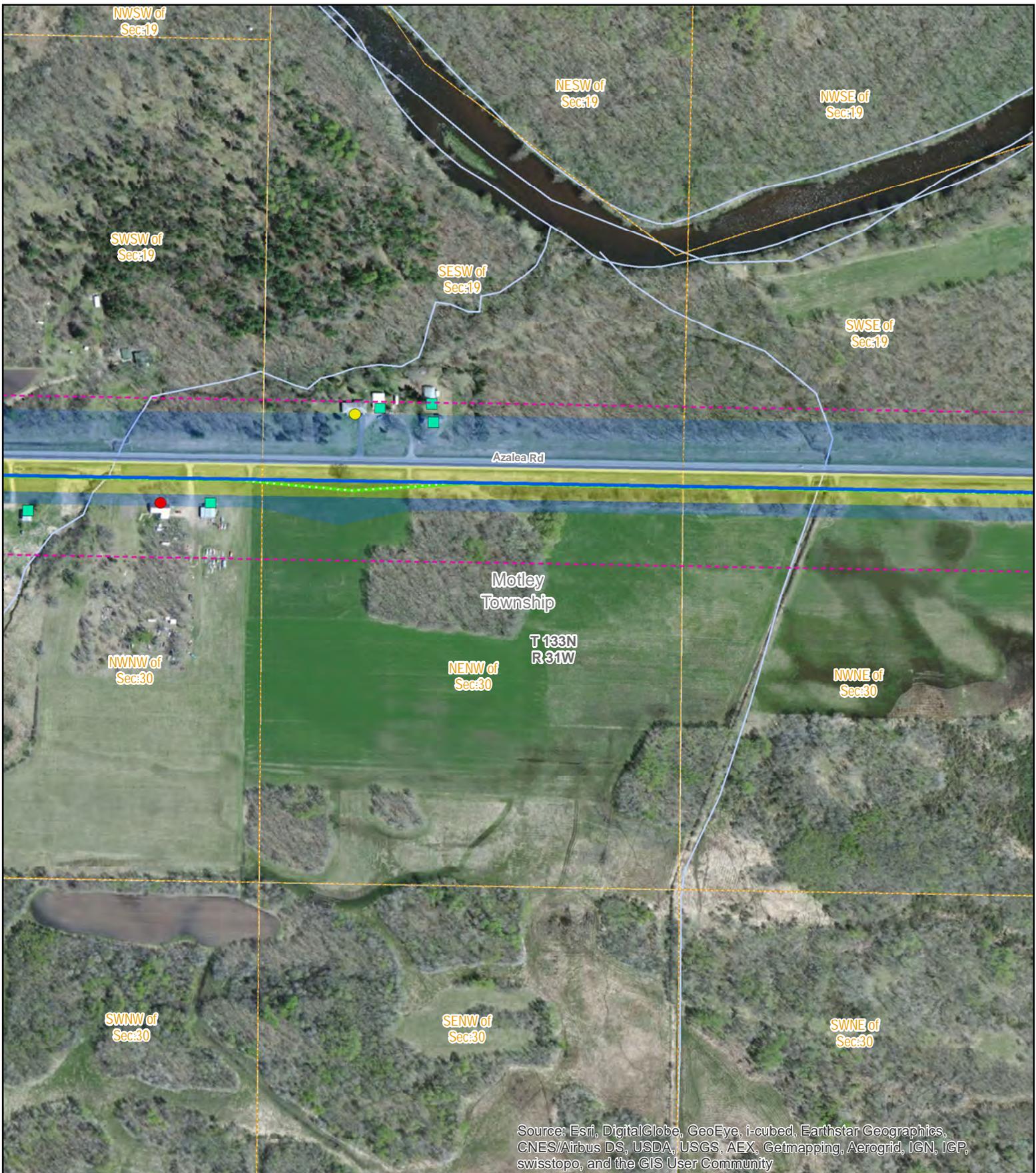
0 50 100 200 Feet
GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy.

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 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' (3) 250' from Alignment | | <h3>Motley Area 115 kV Project</h3> <h2>Appendix F - Detailed Route Maps</h2> <h3>Map Sheet 19 of 31</h3> <p>Common Route Map 4</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> | |
|---|--|--|--|---|--|---|--|



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' (1) Residence 100-150' (0) Residence 150-250' (1) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (5) 250' from Alignment | | <h3>Motley Area 115 kV Project</h3> <h2>Appendix F - Detailed Route Maps</h2> <h3>Map Sheet 20 of 31</h3> <p>Common Route Map 5</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>  | |
|---|--|--|--|---|--|---|--|



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' (1)
 - 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

Motley Area 115 kV Project
Appendix F - Detailed Route Maps
Map Sheet 21 of 31

Common Route Map 6

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 | 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' (1) |
| Residence 100-150' (0) |
| Residence 150-250' (0) |
| Commercial / Industrial 50-250' (0) |
| Non-Residential Building 0-250' (1) |
| 250' from Alignment |

Motley Area 115 kV Project

Appendix F - Detailed Route Maps

Map Sheet 22 of 31

Common Route Map 7

0 50 100 200 Feet

GIS Data sources include:
MINGEO, MNDNR, MNDOT, and Great River Energy.

GREAT RIVER ENERGY

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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

- 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
Appendix F - Detailed Route Maps
Map Sheet 23 of 31

Common Route Map 8

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' (1)
 - Residence 150-250' (1)
 - Commercial / Industrial 50-250' (0)
 - Non-Residential Building 0-250' (2)
 - 250' from Alignment

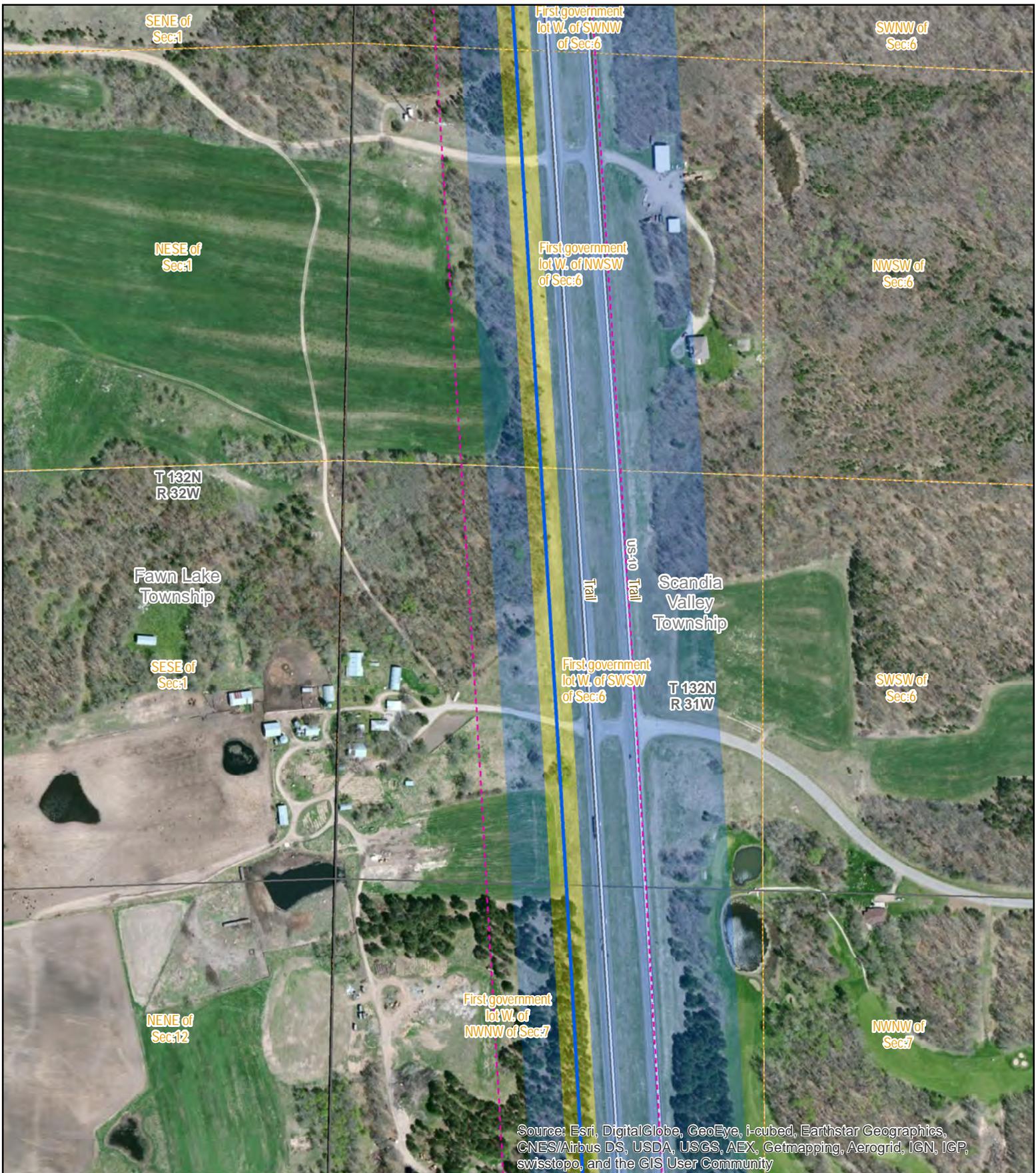
Motley Area 115 kV Project
Appendix F - Detailed Route Maps
Map Sheet 24 of 31

Common Route Map 9

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

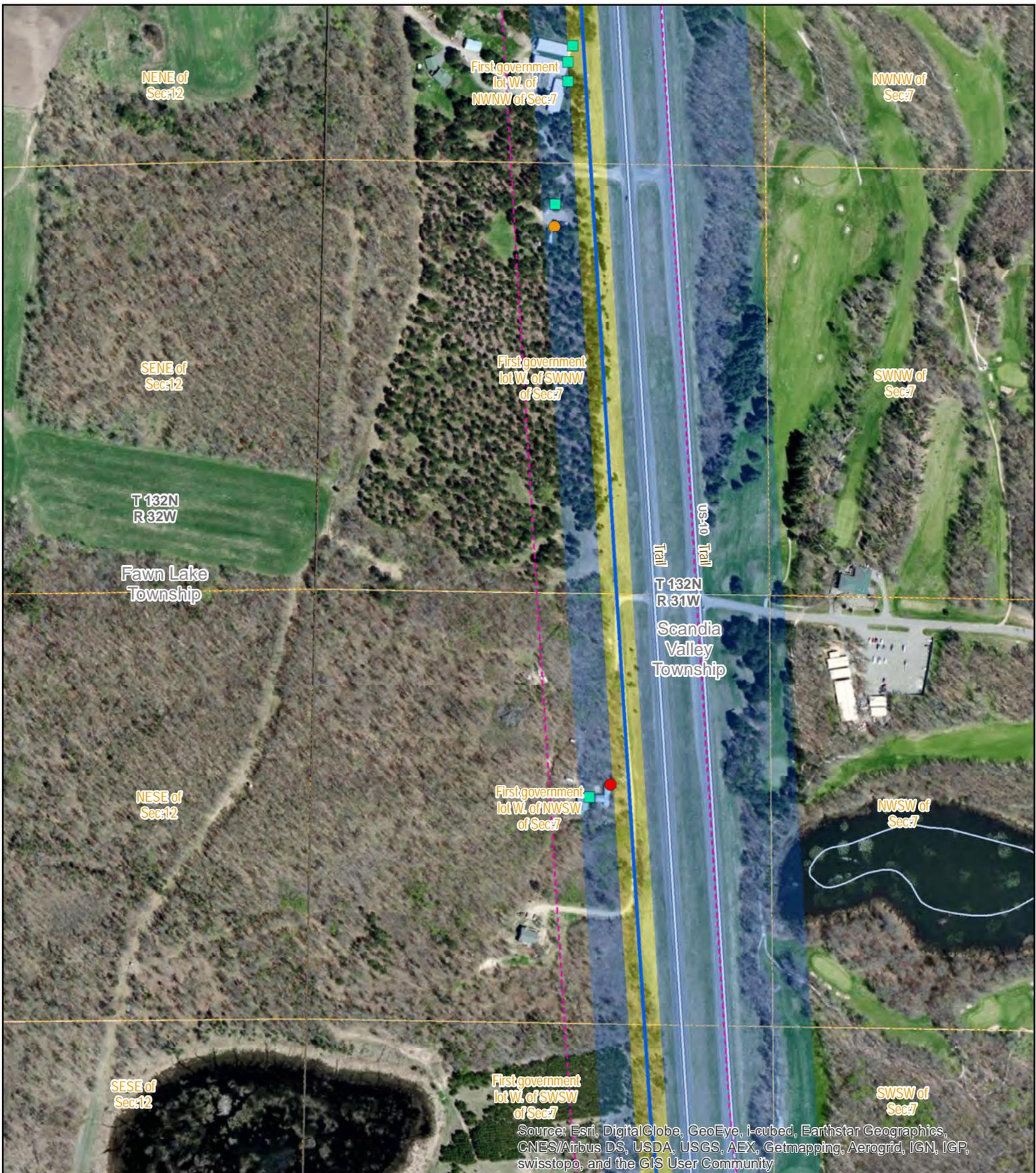
GREAT RIVER ENERGY
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

| | | | | |
|--|--|--|--|--|
| Great River Energy | | Minnesota Pipe Line | ▲ Existing Transmission Substation | Motley Area 115 kV Project Appendix F - Detailed Route Maps Map Sheet 25 of 31 Common Route Map 10 |
| <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 | <ul style="list-style-type: none"> Proposed Pump Station Existing Pipeline | <ul style="list-style-type: none"> ▲ Existing Distribution Substation | 0 50 100 200 Feet GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy. | |
| Crow Wing Power | | Minnesota Power | | Structure <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 |
| <ul style="list-style-type: none"> Proposed Distribution Substation Existing Distribution Substation | <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 | | | |



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' (1) Residence 100-150' (1) Residence 150-250' (0) Commercial / Industrial 50-250' (0) Non-Residential Building 0-250' (5) 250' from Alignment | | <h3>Motley Area 115 kV Project</h3> <h2>Appendix F - Detailed Route Maps</h2> <h1>Map Sheet 26 of 31</h1> <p>Common Route Map 11</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> | |
|---|--|--|--|---|--|--|--|



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

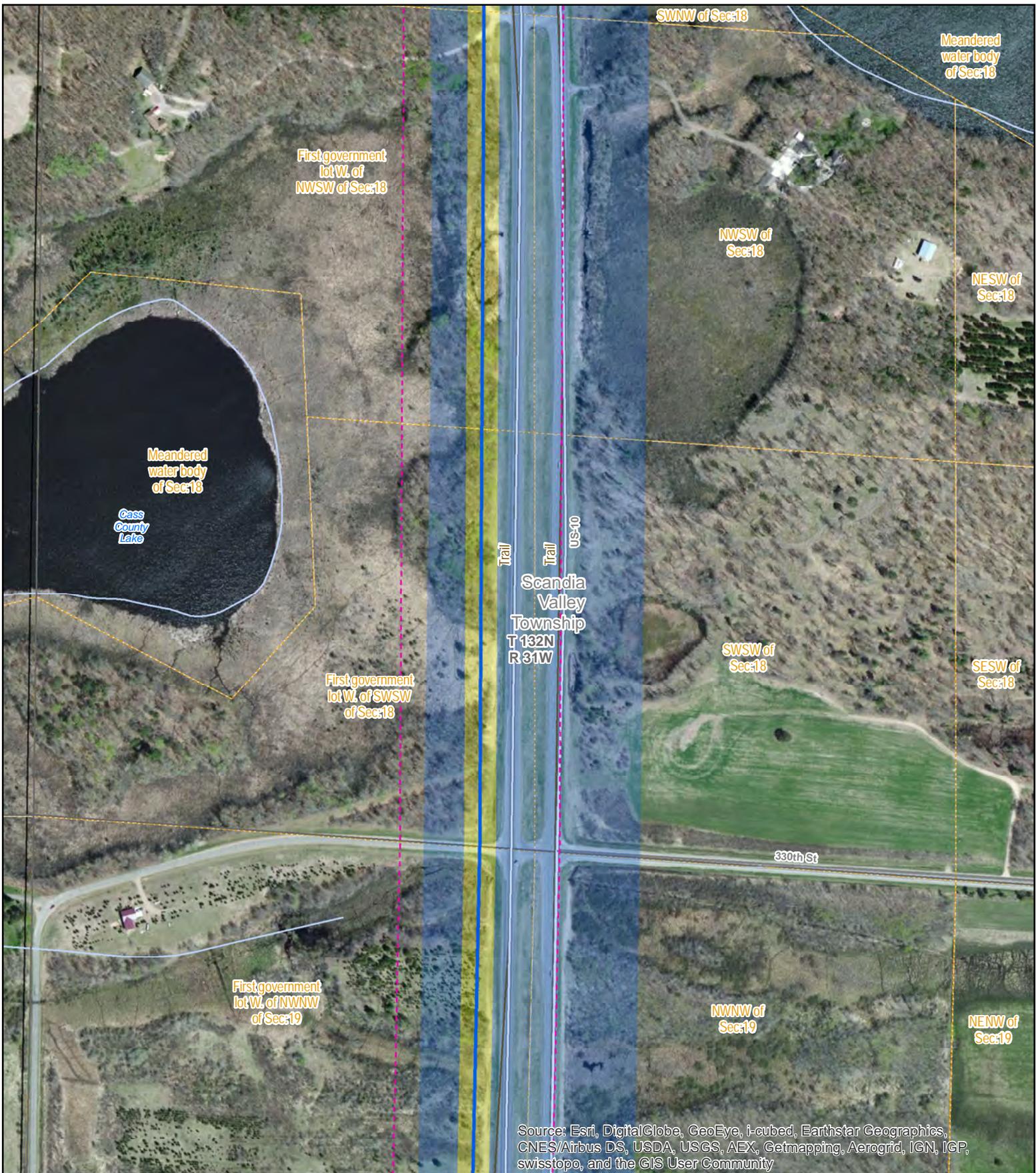
- Existing Transmission Substation
 - Existing Distribution Substation
- Structure**
- Residence 0-50' (3)
 - Residence 50-100' (2)
 - Residence 100-150' (1)
 - Residence 150-250' (0)
 - Commercial / Industrial 50-250' (0)
 - Non-Residential Building 0-250' (11)
 - 250' from Alignment

Motley Area 115 kV Project
Appendix F - Detailed Route Maps
Map Sheet 27 of 31

Common Route Map 12

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

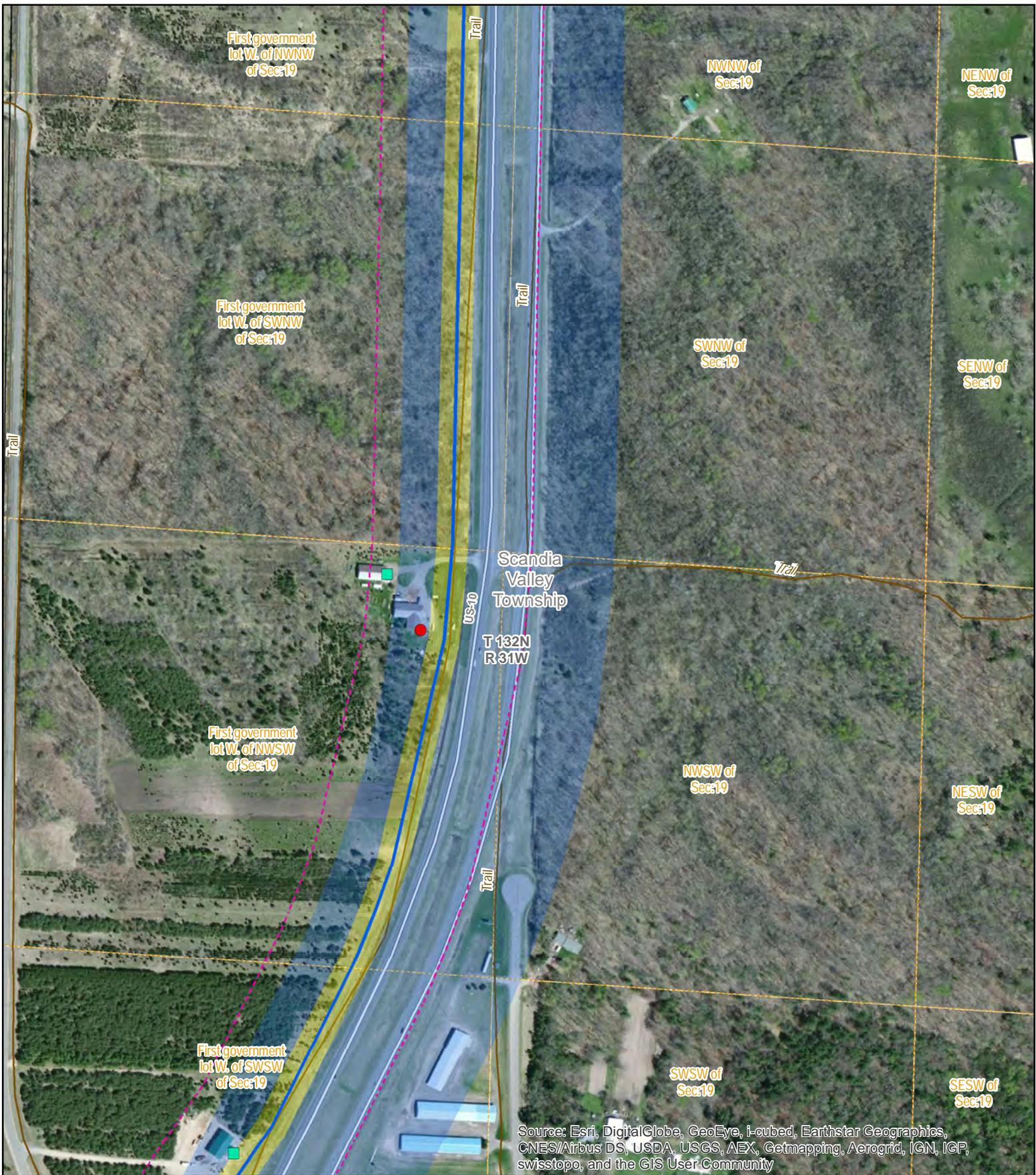
Appendix F - Detailed Route Maps

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.

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' (1)
 - Residence 100-150' (0)
 - Residence 150-250' (0)
 - Commercial / Industrial 50-250' (0)
 - Non-Residential Building 0-250' (2)
 - 250' from Alignment

Motley Area 115 kV Project
Appendix F - Detailed Route Maps
Map Sheet 29 of 31

Common Route Map 14

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**
- 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' (4)
 - 250' from Alignment

Motley Area 115 kV Project

Appendix F - Detailed Route Maps

Map Sheet 30 of 31

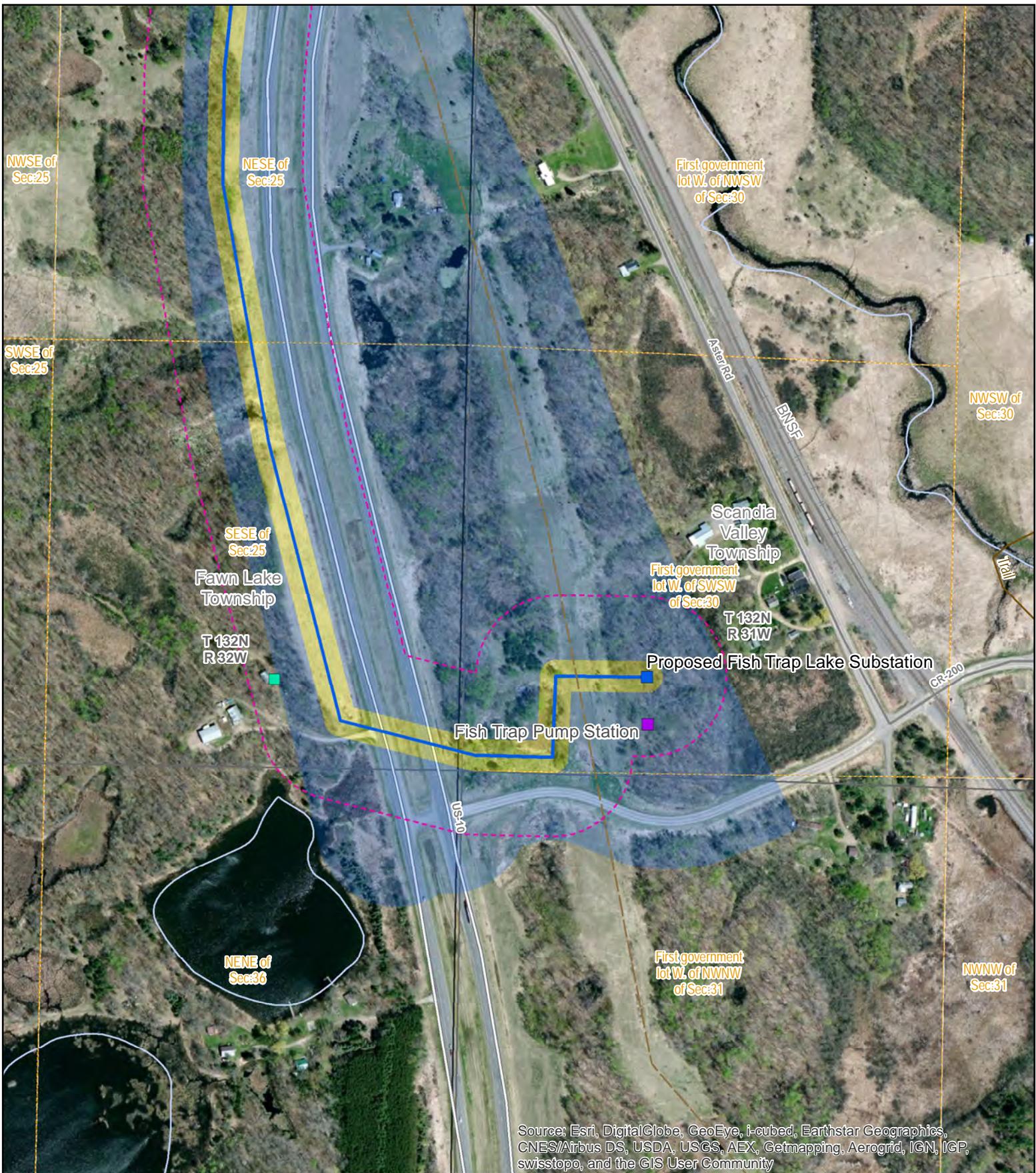
Common Route Map 15

0 50 100 200 Feet

GIS Data sources include:
MINGEO, MNDNR, MNDOT, and Great River Energy.

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 | | Minnesota Pipe Line | | ▲ Existing Transmission Substation | | Motley Area 115 kV Project Appendix F - Detailed Route Maps Map Sheet 31 of 31 Common Route Map 16 |
| 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 | | 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 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) | | |
| Crow Wing Power Proposed Distribution Substation Existing Distribution Substation | | 250' from Alignment | | ▲ Existing Transmission Substation ● Existing Distribution Substation | | N 0 50 100 200 Feet GIS Data sources include: MNGEO, MNDNR, MNDOT, and Great River Energy. |
| | | | | | | GREAT RIVER ENERGY A Touchstone Energy Cooperative |