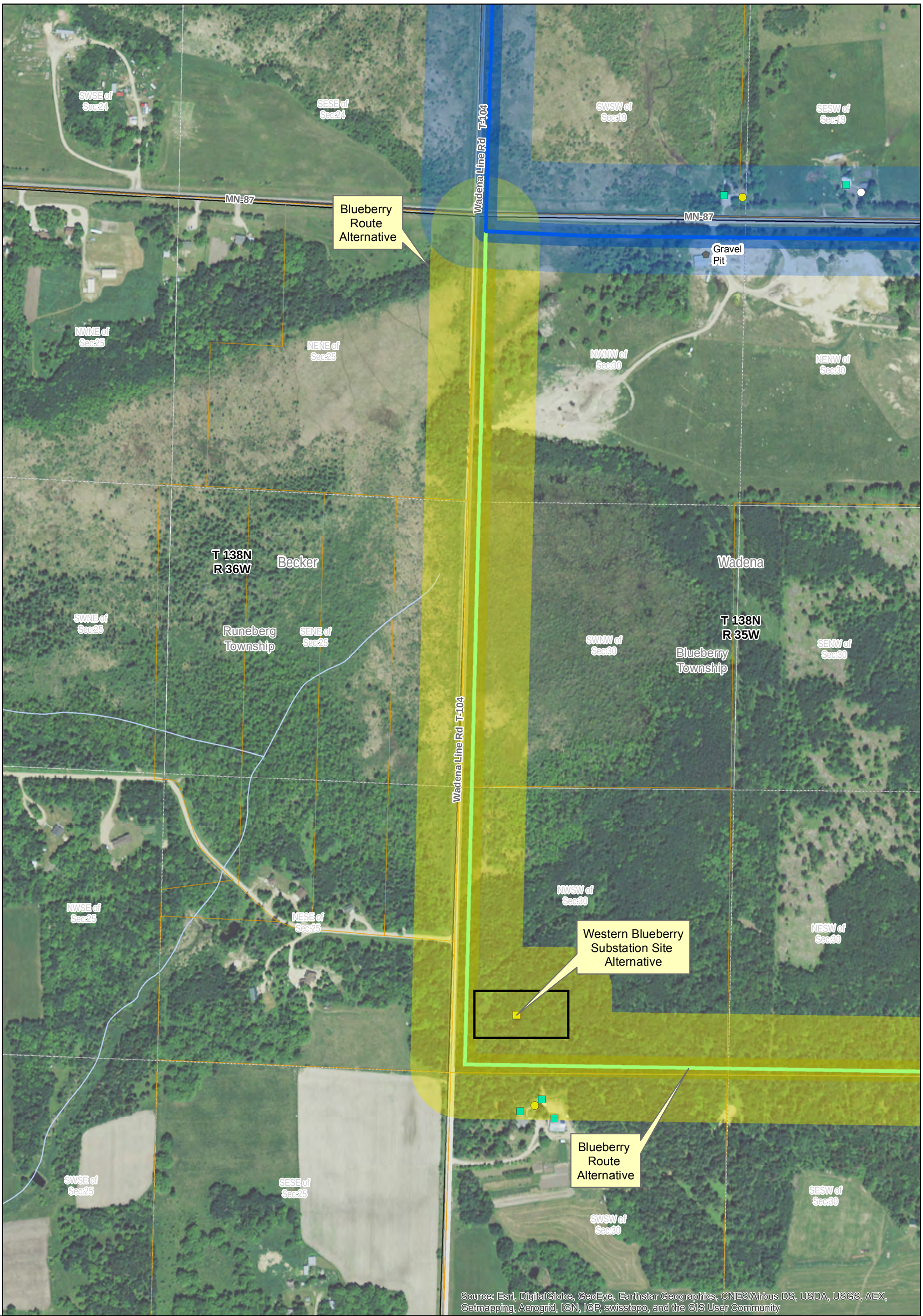


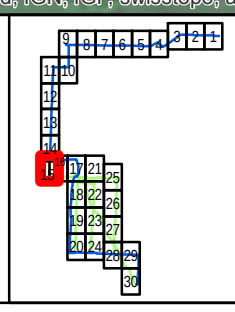
Applicant
- Proposed Alignment
- Proposed Route (500' width)
- Proposed Easement Area (100' width)
- Proposed Substation

Alternatives
- Alternative Alignment – Single Circuit 115 kV
- Alternative Easement Area (100' width)
- Alternative Substation

Existing
- 34.5 kV Transmission Line
- 115 kV Transmission Line
- 230 kV Transmission Line
- 250 kV Transmission Line
- Oil pipeline
- Gas pipeline
- Substation
- Substation Fence

Residence
- Residence 50-100'
- Residence 100-150'
- Residence 150-200'
- Residence 200-250'

Non-Residential Building
- Non-Residential Building 0-250'
- Cemeteries
- GravelPits



Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

Map Sheet 15 of 30

Route Maps

Menahga Area 115 kV Project

N

0 225 Feet

Updated: 7/29/2015

Blueberry Township
SWSW of Sec:19
SESW of Sec:19
SWSE of Sec:19
T-131_107thAve
T-104
MN-87
MN-87
MN-87
Gravel Pit
NWNW of Sec:30
NENW of Sec:30
NWNE of Sec:30
NENE of Sec:30
T-104
Wadena Line Rd
SWNW of Sec:30
SENW of Sec:30
SWNE of Sec:30
SENE of Sec:30
Wadena
T 138N
R 35W
NWSW of Sec:30
NESW of Sec:30
NWSE of Sec:30
NESE of Sec:30
Western Blueberry Substation Site Alternative
Blueberry Route Alternative
SWSW of Sec:30
SESW of Sec:30
SWSE of Sec:30
SESE of Sec:30
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Applicant
- Proposed Alignment
- Proposed Route (500' width)
- Proposed Easement Area (100' width)
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- Alternative Alignment – Single Circuit 115 kV
- Alternative Easement Area (100' width)
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Existing
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- 230 kV Transmission Line
- 250 kV Transmission Line
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- Gas pipeline
- Substation
- Substation Fence

Residence
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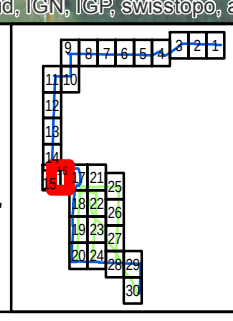
- Residence 150-200'
- Residence 200-250'

Non-Residential Building
- Non-Residential Building 0-250'
- Cemeteries
- GravelPits



Map Sheet 16 of 30

Route Maps

Menahga Area 115 kV Project

Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

N

0 225 Feet

Updated: 7/29/2015

Blueberry Township

SESE of Sec.19

SWSW of Sec.20

SESW of Sec.20

SWSE of Sec.20

MN-87

MN-87

NENE of Sec.30

NWNW of Sec.29

NENW of Sec.29

NWNE of Sec.29

Existing Menahga Substation to be Retired

SENE of Sec.30

SWNW of Sec.29

Wadena

SENW of Sec.29

SWNE of Sec.29

T 138N
R 35W

111th Ave T-238

NESE of Sec.30

NWSW of Sec.29

NESW of Sec.29

NWSE of Sec.29

Blueberry Substation

U.S. Route 71 Route Alternative

Blueberry Route Alternative

SESE of Sec.30

SWSW of Sec.29

SESW of Sec.29

119th Avenue Route Alternative

SWSE of Sec.29

East of 109th Avenue Route Alternative

Pipeline South Route Alternative

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

Applicant
- Proposed Alignment
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- Alternative Alignment – Single Circuit 115 kV
- Alternative Easement Area (100' width)
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- Gas pipeline
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Residence
- Residence 50-100'
- Residence 100-150'
- Residence 150-200'
- Residence 200-250'

Non-Residential Building
- Non-Residential Building 0-250'
- Cemeteries
- GravelPits

Map Sheet 17 of 30

Route Maps

Menahga Area 115 kV Project

Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

N

0 225 Feet

Updated: 7/29/2015

SESE of Sec:30
T-426
SWSW of Sec:29
T-426 350th St
111th Ave
T-238
SESW of Sec:29
SWSE of Sec:29
T-426 350th St
119th Avenue Route Alternative
NENE of Sec:31
NWNW of Sec:32
NENW of Sec:32
NWNE of Sec:32
Pipeline South Route Alternative
East of 109th Avenue Route Alternative
SENE of Sec:31
SWNW of Sec:32
T 138N R 35W
SENW of Sec:32
SWNE of Sec:32
109th Ave T-239
Blueberry Township
NESE of Sec:31
NWSW of Sec:32
NESW of Sec:32
NWSE of Sec:32
Wadena
SESE of Sec:31
SWSW of Sec:32
SESW of Sec:32
SWSE of Sec:32
CR-158 340th St
CR-158 340th St
NENE of Sec:6
109th Ave T-239
NWNW of Sec:5
NENW of Sec:5
NWNE of Sec:5

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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- 250 kV Transmission Line
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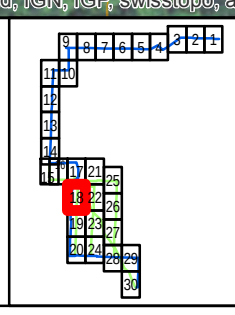

Map Sheet 18 of 30

Route Maps

Menahga Area 115 kV Project

Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

N

0 225 Feet

Updated: 7/29/2015

NENE of Sec:6
NWNW of Sec:5
NENW of Sec:5
NWNE of Sec:5
SENE of Sec:6
SWNW of Sec:5
SENW of Sec:5
SWNE of Sec:5
Wadena
T-239 109th Ave
NESE of Sec:6
NWSW of Sec:5
Red Eye Township
NESW of Sec:5
NWSE of Sec:5
T 137N
R 35W
East of
109th Avenue
Route Alternative
SESE of Sec:6
SWSW of Sec:5
SESW of Sec:5
SWSE of Sec:5
Gravel Pit
CR-146 330th St
CR-146 330th St
NENE of Sec:7
NWNW of Sec:8
NENW of Sec:8
NWNE of Sec:8
T-239 109th Ave
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Applicant
- Proposed Alignment
- Proposed Route (500' width)
- Proposed Easement Area (100' width)
- Proposed Substation

Alternatives
- Alternative Alignment – Single Circuit 115 kV
- Alternative Easement Area (100' width)
- Alternative Substation

Existing
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- 250 kV Transmission Line
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- Substation Fence

Residence
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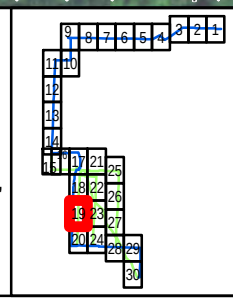
- Residence 150-200'
- Residence 200-250'

Non-Residential Building
- Non-Residential Building 0-250'
- Cemeteries
- GravelPits



Map Sheet 19 of 30

Route Maps

Menahga Area 115 kV Project

Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

N

0 225 Feet

Updated: 7/29/2015

East of
109th Avenue
Route Alternative

NENE of Sec:7
NWNW of Sec:8
NENW of Sec:8
NWNE of Sec:8
SENE of Sec:7
SWNW of Sec:8
SENW of Sec:8
SWNE of Sec:8
NESE of Sec:7
NWSW of Sec:8
NESW of Sec:8
NWSE of Sec:8
SESE of Sec:7
SWSW of Sec:8
SESW of Sec:8
SWSE of Sec:8
NENE of Sec:18
NWNW of Sec:17
NENW of Sec:17
NWNE of Sec:17
SENE of Sec:18
SWNW of Sec:17
SENW of Sec:17
SWNE of Sec:17

T-239
109th Ave
CR-141 109th Ave

T 137N
R 35W

Red Eye Township

Wadena

CSAH-13
CSAH-13
CSAH-13

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

Applicant
- Proposed Alignment
- Proposed Route (500' width)
- Proposed Easement Area (100' width)
- Proposed Substation

Alternatives
- Alternative Alignment – Single Circuit 115 kV
- Alternative Easement Area (100' width)
- Alternative Substation

Existing
- 34.5 kV Transmission Line
- 115 kV Transmission Line
- 230 kV Transmission Line
- 250 kV Transmission Line
- Oil pipeline
- Gas pipeline
- Substation
- Substation Fence

Residence
- Residence 50-100'
- Residence 100-150'
- Residence 150-200'
- Residence 200-250'

Non-Residential Building
- Non-Residential Building 0-250'
- Cemeteries
- GravelPits

Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

Map Sheet 20 of 30

Route Maps

Menahga Area 115 kV Project

N

0 225 Feet

Updated: 7/29/2015

Applicant
- Proposed Alignment
- Proposed Route (500' width)
- Proposed Easement Area (100' width)
- Proposed Substation

Alternatives
- Alternative Alignment – Single Circuit 115 kV
- Alternative Easement Area (100' width)
- Alternative Substation

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Residence
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- Residence 150-200'
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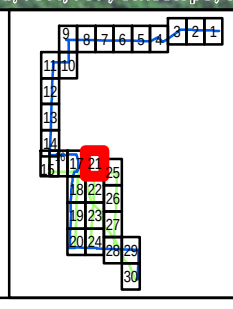
Non-Residential Building
- Non-Residential Building 0-250'
- Cemeteries
- GravelPits



Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

Map Sheet 21 of 30

Route Maps

Menahga Area 115 kV Project

N

0 225 Feet

Updated: 7/29/2015

SWSE of Sec:29
SESE of Sec:29
SWSW of Sec:28
City of Menahga
SESW of Sec:28
350th St T-426
T-426 350th St
NWNE of Sec:32
NENE of Sec:32
NWNW of Sec:33
NENW of Sec:33
SENE of Sec:32
T 138N
R 35W
SWNW of Sec:33
SENW of Sec:33
SWNE of Sec:32
T-269
119th Ave
Blueberry Township
119th Avenue Route Alternative
NWSE of Sec:32
NESE of Sec:32
NWSW of Sec:33
NESW of Sec:33
Wadena
SWSE of Sec:32
SESE of Sec:32
SWSW of Sec:33
SESW of Sec:33
Pipeline South Route Alternative
340th St CR-158
CR-158 340th St
NWNE of Sec:5
NENE of Sec:5
NWNW of Sec:4
NENW of Sec:4
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Applicant
- Proposed Alignment
- Proposed Route (500' width)
- Proposed Easement Area (100' width)
- Proposed Substation

Alternatives
- Alternative Alignment – Single Circuit 115 kV
- Alternative Easement Area (100' width)
- Alternative Substation

Existing
- 34.5 kV Transmission Line
- 115 kV Transmission Line
- 230 kV Transmission Line
- 250 kV Transmission Line
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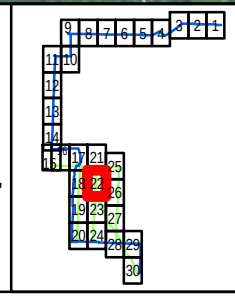
- Gas pipeline
- Substation
- Substation Fence

Residence
- Residence 50-100'
- Residence 100-150'
- Residence 150-200'
- Residence 200-250'

Non-Residential Building
- Non-Residential Building 0-250'
- Cemeteries
- GravelPits



Map Sheet 22 of 30

Route Maps

Menahga Area 115 kV Project

Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

N
0 225 Feet
Updated: 7/29/2015

Applicant
- Proposed Alignment
- Proposed Route (500' width)
- Proposed Easement Area (100' width)
- Proposed Substation

Alternatives
- Alternative Alignment – Single Circuit 115 kV
- Alternative Easement Area (100' width)
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Non-Residential Building
- Non-Residential Building 0-250'
- Cemeteries
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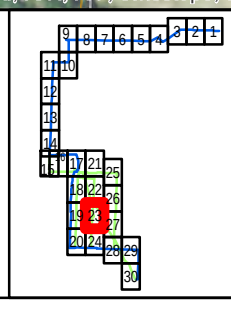


Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

Map Sheet 23 of 30

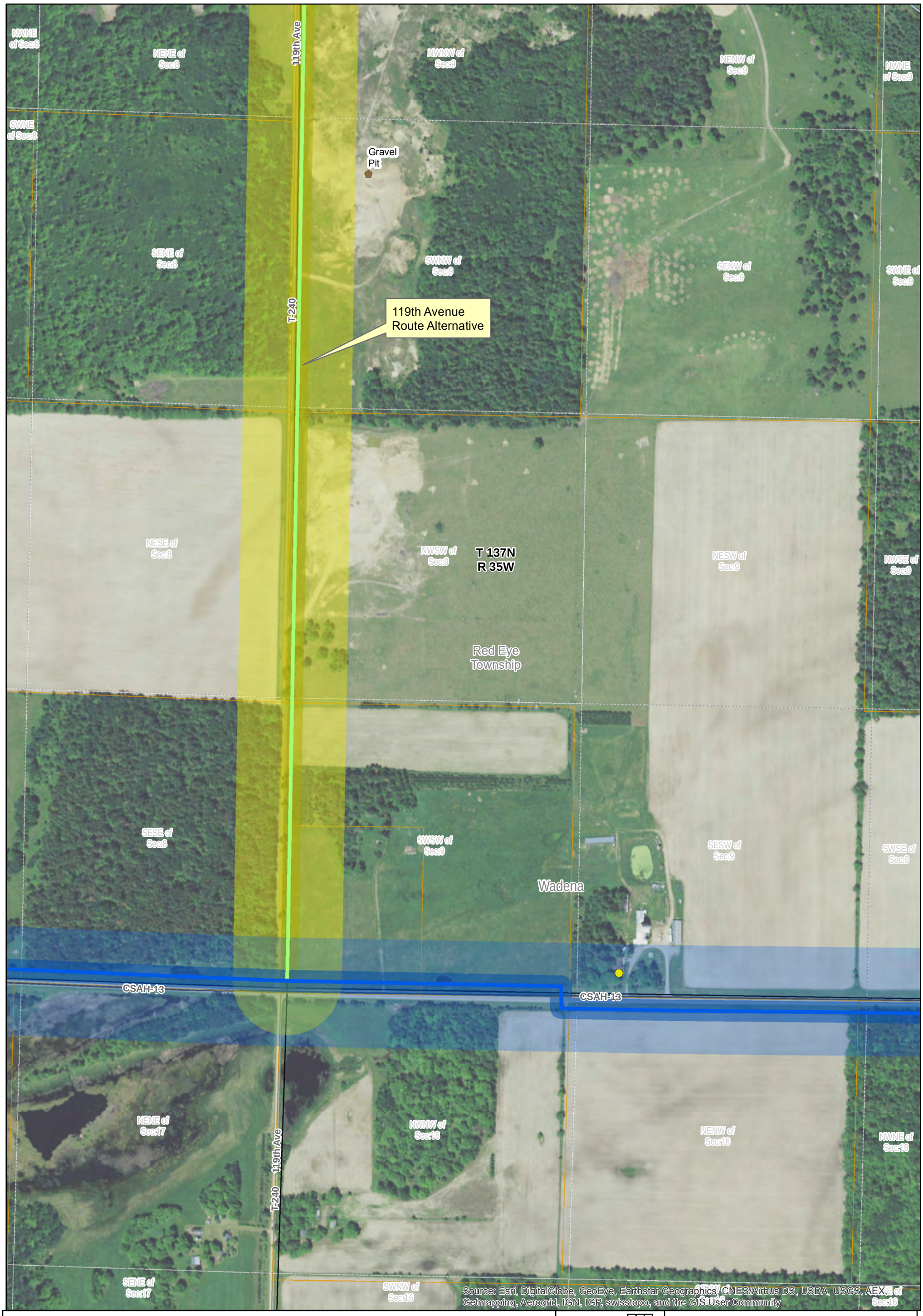
Route Maps

Menahga Area 115 kV Project

N

0 225 Feet

Updated: 7/29/2015



Applicant
- Proposed Alignment
- Proposed Route (500' width)
- Proposed Easement Area (100' width)
- Proposed Substation

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- Alternative Alignment – Single Circuit 115 kV
- Alternative Easement Area (100' width)
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Non-Residential Building
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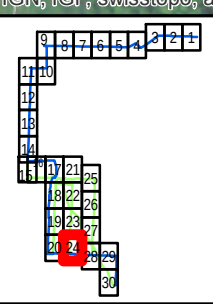
- Cemeteries
- GravelPits



Map Sheet 24 of 30

Route Maps

Menahga Area 115 kV Project

Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

N

0 225 Feet

Updated: 7/29/2015

NENW of Sec:28
NWNE of Sec:28
M-71 7th St SW
US-71 Aspen Ave
NWNW of Sec:27
SENE of Sec:28
SENW of Sec:28
SWNE of Sec:28
US-71
SWNW of Sec:27
Menahga Campground
M-70 10th St SW
City of Menahga
NESW of Sec:28
NWSE of Sec:28
NESE of Sec:28
Wadena
US-71 Aspen Ave
NWSW of Sec:27
T 138N
R 35W
M-37 11th St SE
SESW of Sec:28
SWSE of Sec:28
SESE of Sec:28
US-71
SWSW of Sec:27
M-35 12th St SE
US-71 Aspen Ave
T-426 350th St
U.S. Route 71
Route Alternative
Blueberry Township
NENW of Sec:33
NWNE of Sec:33
NENE of Sec:33
NWNW of Sec:34
SENW of Sec:33
SWNE of Sec:33
SENE of Sec:33
SWNW of Sec:34
Source: Esri, DigitalBarbe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Applicant
- Proposed Alignment
- Proposed Route (500' width)
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- Residence 150-200'
- Residence 200-250'

Non-Residential Building
- Non-Residential Building 0-250'
- Cemeteries
- GravelPits

Map Sheet 25 of 30

Route Maps

Menahga Area 115 kV Project

Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

N
0 225 Feet
Updated: 7/29/2015

SENW of Sec:33
SWNE of Sec:33
SENE of Sec:33
SWNW of Sec:34
NESW of Sec:33
NWSE of Sec:33
NESE of Sec:33
U.S. Route 71 Route Alternative
US-71
NWSW of Sec:34
Blueberry Township
T 138N R 35W
SESW of Sec:33
SWSE of Sec:33
SESE of Sec:33
SWSW of Sec:34
Wadena
CR-158 340th St
NENW of Sec:4
NWNE of Sec:4
NENE of Sec:4
NWNW of Sec:3
T 137N R 35W
Red Eye Township
US-71
SENW of Sec:4
SWNE of Sec:4
SENE of Sec:4
SWNW of Sec:3

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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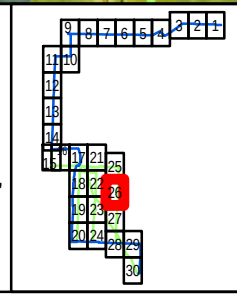


Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

Map Sheet 26 of 30

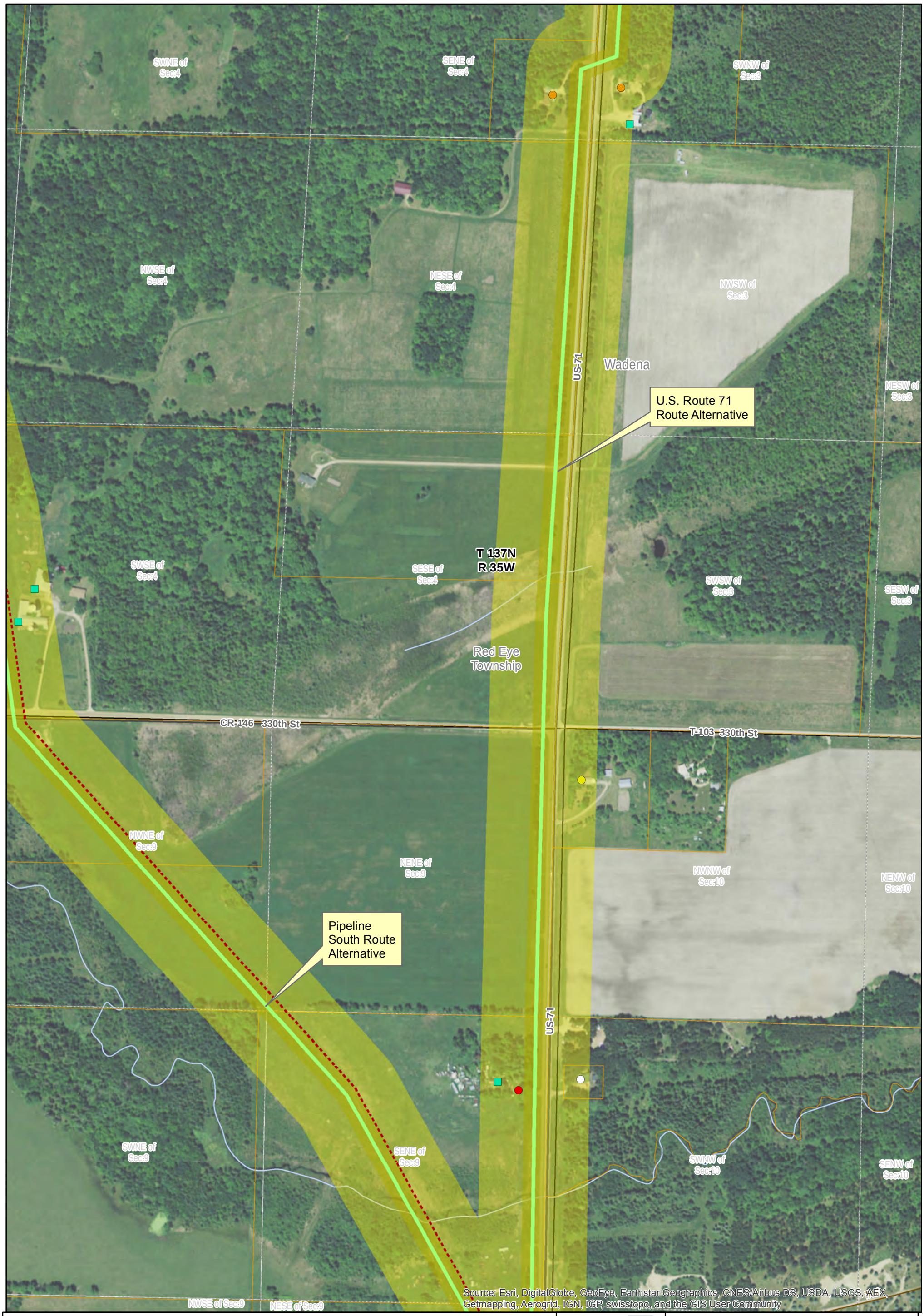
Route Maps

Menahga Area 115 kV Project

N

0 225 Feet

Updated: 7/29/2015



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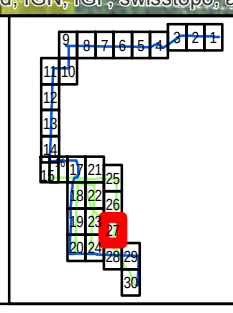


Map Sheet 27 of 30

Route Maps

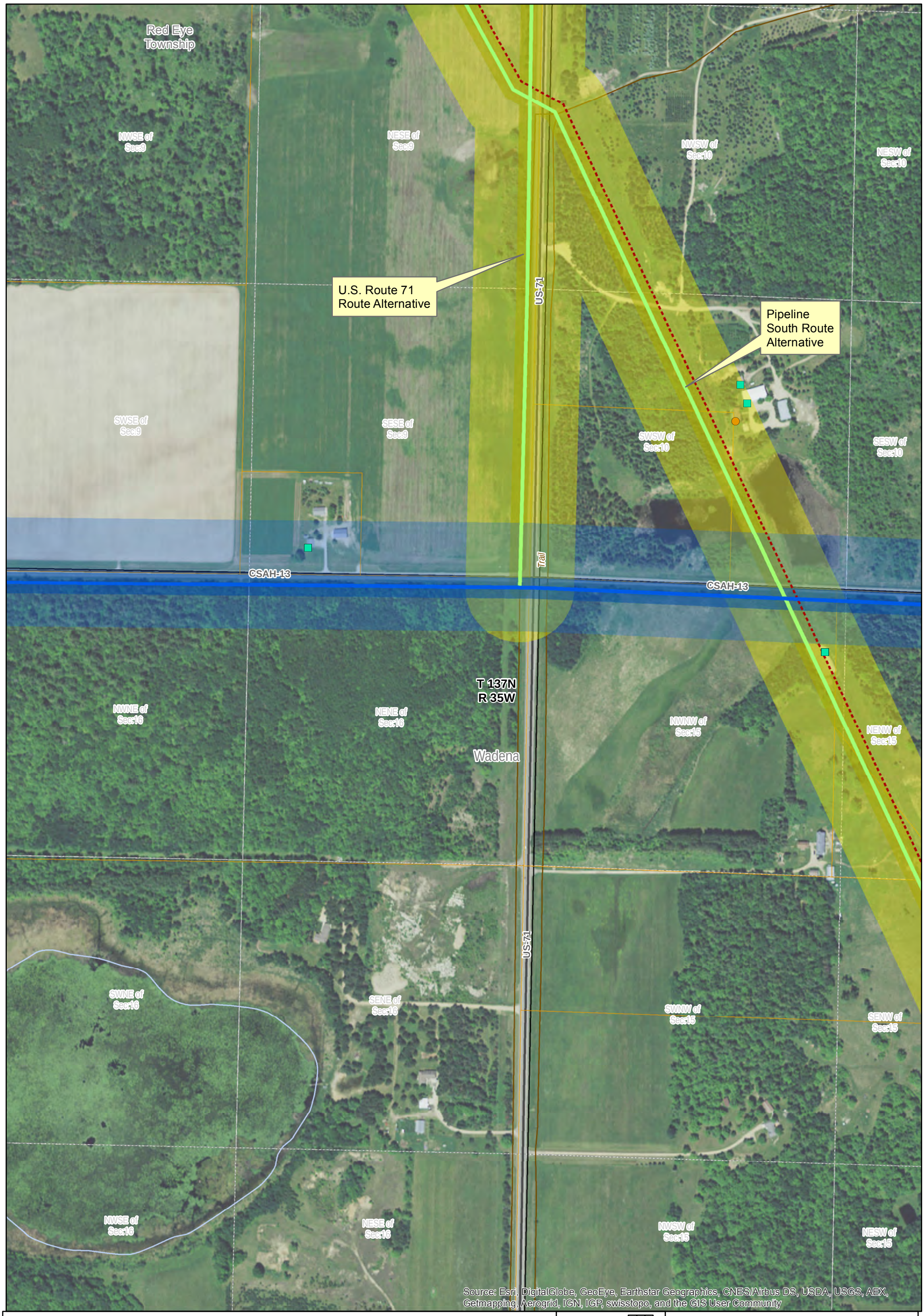
Menahga Area 115 kV Project

Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

N

0 225 Feet

Updated: 7/29/2015



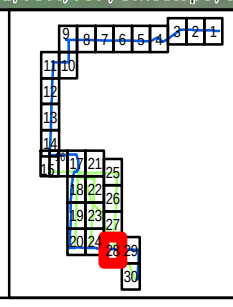
Applicant
- Proposed Alignment
- Proposed Route (500' width)
- Proposed Easement Area (100' width)
- Proposed Substation

Alternatives
- Alternative Alignment – Single Circuit 115 kV
- Alternative Easement Area (100' width)
- Alternative Substation

Existing
- 34.5 kV Transmission Line
- 115 kV Transmission Line
- 230 kV Transmission Line
- 250 kV Transmission Line
- Oil pipeline
- Gas pipeline
- Substation
- Substation Fence

Residence
- Residence 50-100'
- Residence 100-150'
- Residence 150-200'
- Residence 200-250'

Non-Residential Building
- Non-Residential Building 0-250'
- Cemeteries
- GravelPits



Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

Map Sheet 28 of 30

Route Maps

Menahga Area 115 kV Project

N

0 225 Feet

Updated: 7/29/2015

SENW of Sec:10
SWNE of Sec:10
SENE of Sec:10
SWNW of Sec:11
NESW of Sec:10
NWSE of Sec:10
NESE of Sec:10
NWSW of Sec:11
Red Eye WMA
139th Ave
CR-147
SESW of Sec:10
SWSE of Sec:10
SESE of Sec:10
SWSW of Sec:11
T 137N
R 35W
CSAH-13
CSAH-13
Red Eye Township
NENW of Sec:15
NWNE of Sec:15
NENE of Sec:15
NWNW of Sec:14
Wadena
Pipeline South Route Alternative
139th Ave
T-229
SENW of Sec:15
SWNE of Sec:15
SENE of Sec:15
SWNW of Sec:14
NESW of Sec:15
NWSE of Sec:15
NESE of Sec:15
314th St T-89
NWSW of Sec:14
139th Ave T-229
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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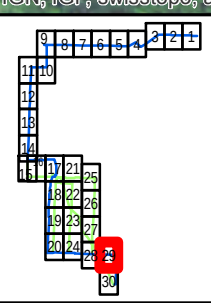

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Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

Map Sheet 29 of 30

Route Maps

Menahga Area 115 kV Project

N

0 225 Feet

Updated: 7/29/2015

Red Eye Township
NESW of Sec:15
NWSE of Sec:15
NESE of Sec:15
NWSW of Sec:14
Pipeline South Route Alternative
T-229 139th Ave.
SESW of Sec:15
SWSE of Sec:15
SESE of Sec:15
SWSW of Sec:14
310th T-88
NENW of Sec:22
NWNE of Sec:22
NENE of Sec:22
NWNW of Sec:23
T 137N
R 35W
Wadena
T-234 308th St
Mantyla Cemetery
Mantyla Cemetery
SENW of Sec:22
SWNE of Sec:22
SENE of Sec:22
SWNW of Sec:23
Red Eye Substation
139th Ave
T-229
135th Ave T-234
NESW of Sec:22
NWSE of Sec:22
NESE of Sec:22
NWSW of Sec:23
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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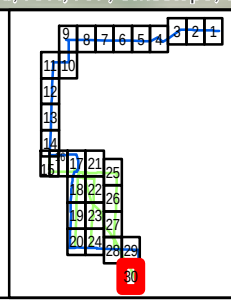

Map Sheet 30 of 30

Route Maps

Menahga Area 115 kV Project

Data Sources Vary Between MNDOT, MNDNR, MNGEO and Great River Energy
Aerial Image from ESRI Web service
Map Projection: UTM NAD 83 Zone 15

N

0 225 Feet

Updated: 7/29/2015