Viewpoint 03 - Reserve off Senic Highway near Balsam Memorial Hall Looking East Northeast **- *Existing View***

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (50 cm)

BARR

BARR Engineering
Great Northern Transmission Line

Viewpoint 03

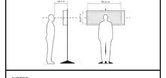
Reserve off Senic Highway
near Balsam Memorial Hall

Looking East Northeast

Viewpoint Location — Major Road

Easting Position:	1550773.1
Northing Position:	17251767.0
Elevation of Viewpoint Position (ft):	1343.3
Height of Camera Above Ground (ft):	5.4
Date of Photography:	25-October-2014 at 10:07 am
Orientation of View:	ENE
Horizontal Field of View:	124°
Vertical Field of View:	55°

Correct Viewing of TrueView™ Photosimulations



NOTES:

Viewpoint locations have been surveyed by

Paul Tokarczyk, PE/PLS
Barr Engineering
3128 14th Avenue East
Hibbing, MN 55746

PROJECTION/ZONE/DATUM:
UTM, Zone 15 NH, NAD83

Heights are above mean sea level.

No part of this photosimulation shall be altered in any way.

Photosimulation Created Using
TrueView™ Technology
(Patent No.: US 8,184,906 B2)

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N-11

Viewpoint 03 - Reserve off Senic Highway near Balsam Memorial Hall Looking East Northeast **- *Proposed View***

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (50 cm)

BARR

BARR Engineering
Great Northern Transmission Line

Viewpoint 03

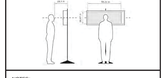
Reserve off Senic Highway
near Balsam Memorial Hall

Looking East Northeast

Viewpoint Location
Transmission Line
Major Road

Easting Position:	1550773.1
Northing Position:	17251767.0
Elevation of Viewpoint Position (ft):	1343.3
Height of Camera Above Ground (ft):	5.4
Date of Photography:	25-October-2014 at 10:07 am
Orientation of View:	ENE
Horizontal Field of View:	124°
Vertical Field of View:	55°

Correct Viewing of TrueView™ Photosimulations



NOTES:

Viewpoint locations have been surveyed by

Paul Tokarczyk, PE/PLS
Barr Engineering
3128 14th Avenue East
Hibbing, MN 55746

PROJECTION/ZONE/DATUM:
UTM, Zone 15 NH, NAD83

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Stakeholder engagement consultants

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N-12

Viewpoint 03 - Reserve off Senic Highway near Balsam Memorial Hall Looking East Northeast **- *Proposed View with Color Overlay to highlight transmission line behind existing vegetation***

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (50 cm)

BARR

BARR Engineering
Great Northern Transmission Line

Viewpoint 03

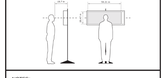
Reserve off Senic Highway
near Balsam Memorial Hall

Looking East Northeast

Viewpoint Location
Transmission Line
Major Road

Easting Position:	1560773.1
Northing Position:	17251767.0
Elevation of Viewpoint Position (ft):	1343.3
Height of Camera Above Ground (ft):	5.4
Date of Photography:	25-October-2014 at 10:07 am
Orientation of View:	ENE
Horizontal Field of View:	124°
Vertical Field of View:	55°

Correct Viewing of TrueView™ Photosimulations



NOTES:

Viewpoint locations have been surveyed by

Paul Tokarczyk, PE/PLS
Barr Engineering
3128 14th Avenue East
Hibbing, MN 55746

PROJECTION/ZONE/DATUM:
UTM, Zone 15 NH, NAD83

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N-13

Viewpoint 04a - Highway 11 near Substation Looking Southeast **- *Existing View***

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (50 cm)

N-14

BARR

BARR Engineering
Great Northern Transmission Line

Viewpoint 04a

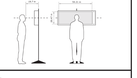
Highway 11 near Substation

Looking Southeast

Viewpoint Location — Major Road

Easting Position:	**1053337.2**
Northing Position:	**17776926.1**
Elevation of Viewpoint Position (ft):	**1091.5**
Height of Camera Above Ground (ft):	**5.4**
Date of Photography:	**25-October-2014 at 10:34 am**
Orientation of View:	**SE**
Horizontal Field of View:	**124°**
Vertical Field of View:	**55°**

Correct Viewing of TrueView™ Photosimulations



NOTES:

Viewpoint locations have been surveyed by

Paul Tokarczyk, PE/PLS
Barr Engineering
3128 14th Avenue East
Hibbing, MN 55746

PROJECTION/ZONE/DATUM:
UTM, Zone 15 NH, NAD83

Heights are above mean sea level.

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Photosimulation Created Using
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(Patent No.: US 8,184,906 B2)

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Viewpoint 04a - Highway 11 near Substation Looking Southeast **- *Proposed View***

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (50 cm)

N-15

BARR

BARR Engineering
Great Northern Transmission Line

Viewpoint 04a

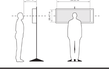
Highway 11 near Substation

Looking Southeast

Viewpoint Location
Major Road
Transmission Line

Easting Position:	1053337.2
Northing Position:	17776926.1
Elevation of Viewpoint Position (ft):	1091.5
Height of Camera Above Ground (ft):	5.4
Date of Photography:	25-October-2014 at 10:34 am
Orientation of View:	SE
Horizontal Field of View:	124°
Vertical Field of View:	55°

Correct Viewing of TrueView™ Photosimulations



NOTES:

Viewpoint locations have been surveyed by

Paul Tokarczyk, PE/PLS
Barr Engineering
3128 14th Avenue East
Hibbing, MN 55746

PROJECTION/ZONE/DATUM:
UTM, Zone 15 NH, NAD83

Heights are above mean sea level.

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(Patent No.: US 8,184,906 B2)

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Viewpoint 04b - Highway 11 near Substation Looking West Southwest **- *Existing View***

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (50 cm)

BARR

BARR Engineering
Great Northern Transmission Line

Viewpoint 04b

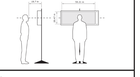
Highway 11 near Substation

Looking West Southwest

Viewpoint Location Major Road

Easting Position:	**1054837.1**
Northing Position:	**177777882.4**
Elevation of Viewpoint Position (ft):	**1092.9**
Height of Camera Above Ground (ft):	**5.4**
Date of Photography:	**25-October-2014 at 10:48 am**
Orientation of View:	**WSW**
Horizontal Field of View:	**124°**
Vertical Field of View:	**55°**

Correct Viewing of TrueView™ Photosimulations



NOTES:

Viewpoint locations have been surveyed by

Paul Tokarzyk, RE/PLS
Barr Engineering
3128 14th Avenue East
Hibbing, MN 55746

PROJECTION/ZONE/DATUM:
UTM, Zone 15 NH, NAD83

Heights are above mean sea level.

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Photosimulation Created Using
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(Patent No.: US 8,184,906 B2)

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N-16

Viewpoint 04b - Highway 11 near Substation Looking West Southwest **- *Proposed View***

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (50 cm)

BARR

BARR Engineering
Great Northern Transmission Line

Viewpoint 04b

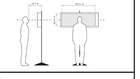
Highway 11 near Substation

Looking West Southwest

Viewpoint Location
Transmission Line
Major Road

Easting Position:	1054837.1
Northing Position:	177777882.4
Elevation of Viewpoint Position (ft):	1092.9
Height of Camera Above Ground (ft):	5.4
Date of Photography:	25-October-2014 at 10:48 am
Orientation of View:	WSW
Horizontal Field of View:	124°
Vertical Field of View:	55°

Correct Viewing of TrueView™ Photosimulations



NOTES:

Viewpoint locations have been surveyed by

Paul Tokarzyk, PE/PLS
Barr Engineering
3128 14th Avenue East
Hibbing, MN 55746

PROJECTION/ZONE/DATUM:
UTM, Zone 15 NH, NAD83

Heights are above mean sea level.

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(Patent No.: US 8,184,906 B2)

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Viewpoint 05 - Highway 38, South of Effie Looking East **- *Existing View***

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (50 cm)

BARR

BARR Engineering
Great Northern Transmission Line

Viewpoint 05

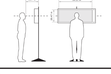
Highway 38, South of Effie

Looking East

Viewpoint Location — Major Road

Easting Position:	**1482492.9**
Northing Position:	**17377658.6**
Elevation of Viewpoint Position (ft):	**1387.7**
Height of Camera Above Ground (ft):	**5.4**
Date of Photography:	**25-October-2014 at 11:44 am**
Orientation of View:	**E**
Horizontal Field of View:	**124°**
Vertical Field of View:	**55°**

Correct Viewing of TrueView™ Photosimulations



NOTES:

Viewpoint locations have been surveyed by

Paul Tokarczyk, PE/PLS
Barr Engineering
3128 14th Avenue East
Hibbing, MN 55746

PROJECTION/ZONE/DATUM:
UTM, Zone 15 NH, NAD83

Heights are above mean sea level.

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(Patent No.: US 8,184,906 B2)

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N-18

Viewpoint 05 - Highway 38, South of Effie Looking East - ***Proposed View***

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (50 cm)

BARR

BARR Engineering
Great Northern Transmission Line

Viewpoint 05

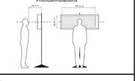
Highway 38, South of Effie

Looking East

Viewpoint Location
Transmission Line
Major Road

Easting Position:	**1482492.9**
Northing Position:	**172776818.5**
Elevation of Viewpoint Position (ft):	**1387.7**
Height of Camera Above Ground (ft):	**5.4**
Date of Photography:	**25-October-2014 at 11:44 am**
Orientation of View:	**E**
Horizontal Field of View:	**124°**
Vertical Field of View:	**55°**

Correct Viewing of TrueView™ Photosimulations



NOTES:

Viewpoint locations have been surveyed by

Paul Tokarzyk, PE/PLS
Barr Engineering
3128 14th Avenue East
Hibbing, MN 55746

PROJECTION/ZONE/DATUM:
UTM, Zone 15 NH, NAD83

Heights are above mean sea level.

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(Patent No.: US 8,184,906 B2)

Provided by

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Stakeholder engagement consultants

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N-19

Viewpoint 05 - Highway 38, South of Effie Looking East **- *Proposed View with Color Overlay to highlight transmission line behind existing vegetation***

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (50 cm)

BARR

BARR Engineering
Great Northern Transmission Line

Viewpoint 05

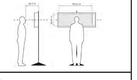
Highway 38, South of Effie

Looking East

Viewpoint Location
Transmission Line
Major Road

Easting Position:	**1482492.9**
Northing Position:	**172776818.5**
Elevation of Viewpoint Position (ft):	**1387.7**
Height of Camera Above Ground (ft):	**5.4**
Date of Photography:	**25-October-2014 at 11:44 am**
Orientation of View:	**E**
Horizontal Field of View:	**124°**
Vertical Field of View:	**55°**

Correct Viewing of TrueView™ Photosimulations



NOTES:

Viewpoint locations have been surveyed by

Paul Tokarzyk, PE/PLS
Barr Engineering
3128 14th Avenue East
Hibbing, MN 55746

PROJECTION/ZONE/DATUM:
UTM, Zone 15 NH, NAD83

Heights are above mean sea level.

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Photosimulation Created Using
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(Patent No.: US 8,184,906 B2)

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Stakeholder engagement consultants

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N-20