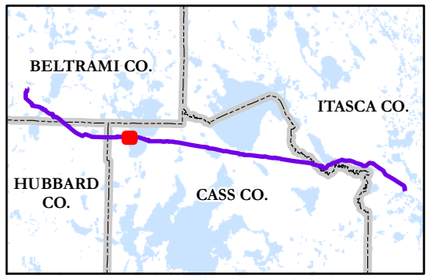
Bemidji – Grand Rapids 230 kV Transmission Project
Route Maps
PUC Docket Number
E017, E015, ET-6/TL-07-1327



- Extended Route
- Route 4
- Route 4 ROW
- Route 4 C/L
- Single Pole Location
- Existing Substation

Existing Transmission Lines

- 69 kV
- 115 kV
- 230 kV
- New Pipeline
- Existing Pipeline
- Railroad
- Leech Lake Reservation
- Wildlife Management Area
- Forest Service
- County Boundary

N

0 500 Feet

Sheet 20 of 66

Aerial Photos: Fall '09/Spring '10

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

Bemidji – Grand Rapids 230 kV Transmission Project
Route Maps
PUC Docket Number
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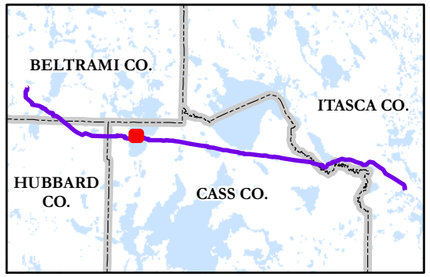

- Extended Route
- Route 4
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- Route 4 C/L
- Single Pole Location
- Existing Substation

Existing Transmission Lines

- 69 kV
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- 230 kV
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0 500 Feet

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Route Maps
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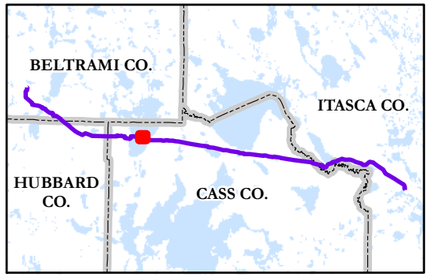

- Extended Route
- Route 4
- Route 4 ROW
- Route 4 C/L
- Single Pole Location
- Existing Substation

Existing Transmission Lines

- 69 kV
- 115 kV
- 230 kV
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- County Boundary

N

0 500 Feet

US Hwy 2

Lake Bay Loop Nw

Aerial Photos: Fall '08 Spring '10

Sheet 22 of 66

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

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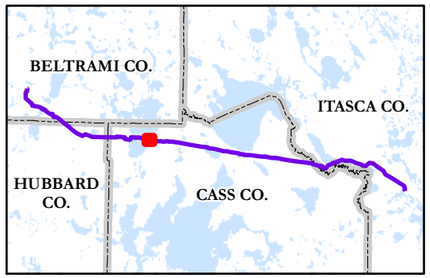

- Extended Route
- Route 4
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- Existing Substation

Existing Transmission Lines

- 69 kV
- 115 kV
- 230 kV
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- Railroad
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N

0 500 Feet

Sheet 23 of 66

Forest Rt 2007

Forest Rt 2171

US Hwy 2

Pike Bay Loop NW

Aerial Photos: Fall '09/Spring '10

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

Bemidji – Grand Rapids 230 kV Transmission Project
Route Maps
PUC Docket Number
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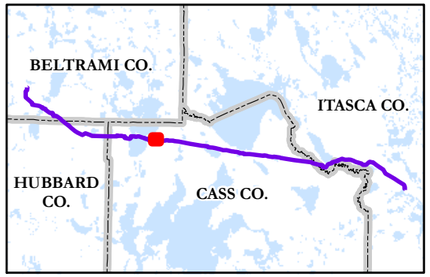

Forest Rt 2171

US Hwy 2

Cuba Hill Rd NW

Aerial Photos: Fall '09/Spring '10

- Extended Route
- Route 4
- Route 4 ROW
- Route 4 C/L
- Single Pole Location
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- 115 kV
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- Railroad
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- Wildlife Management Area
- Forest Service
- County Boundary

N

0 500 Feet

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

Bemidji – Grand Rapids 230 kV Transmission Project
Route Maps
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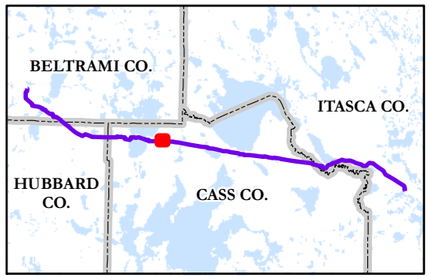

- Extended Route
- Route 4
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- Existing Substation

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- 115 kV
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- Railroad
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- Wildlife Management Area
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N

0 500 Feet

Sheet 25 of 66

Scenic Hwy NW

US Hwy 2

US Hwy 2

Cuba Hill Rd NW

Aerial Photos: Fall '09/Spring '10

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Route Maps
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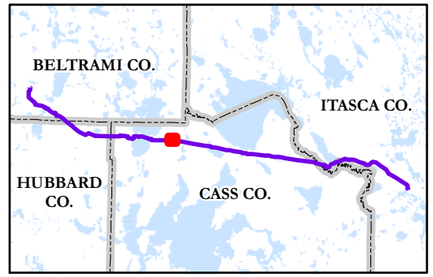

- Extended Route
- Route 4
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- Existing Substation

Existing Transmission Lines

- 69 kV
- 115 kV
- 230 kV
- New Pipeline
- Existing Pipeline
- Railroad
- Leech Lake Reservation
- Wildlife Management Area
- Forest Service
- County Boundary

US Hwy 2

Aerial Photos: Fall '09/Spring '10

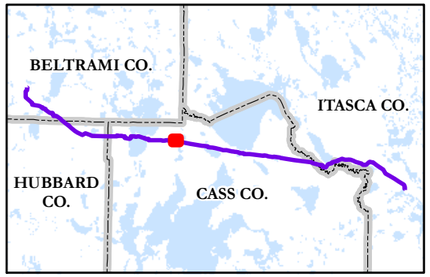
N

0 500 Feet

Sheet 26 of 66

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

Bemidji – Grand Rapids 230 kV Transmission Project
Route Maps
PUC Docket Number
E017, E015, ET-6/TL-07-1327



- Extended Route
- Route 4
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- 69 kV
- 115 kV
- 230 kV
- New Pipeline
- Existing Pipeline
- Railroad
- Leech Lake Reservation
- Wildlife Management Area
- Forest Service
- County Boundary

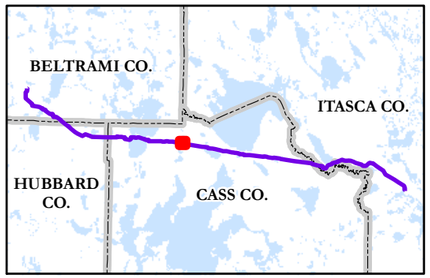
N

0 500 Feet

Sheet 27 of 66

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

Bemidji – Grand Rapids 230 kV Transmission Project
Route Maps
PUC Docket Number E017, E015, ET-6/TL-07-1327



- Extended Route
- Route 4
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- Single Pole Location
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- 69 kV
- 115 kV
- 230 kV
- New Pipeline
- Existing Pipeline
- Railroad
- Leech Lake Reservation
- Wildlife Management Area
- Forest Service
- County Boundary

N

0 500 Feet

Sheet 28 of 66

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

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Route Maps
PUC Docket Number
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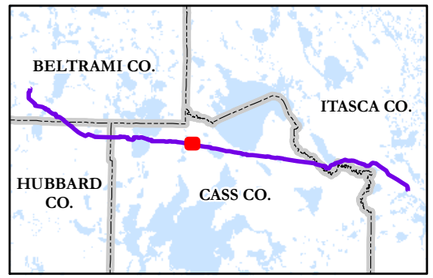

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- Route 4
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- 230 kV
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- Railroad
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- Wildlife Management Area
- Forest Service
- County Boundary

Ketchum Rd NW

US Hwy 2

US Hwy 2

Aerial Photos: Fall '09/Spring '10

N

0 500 Feet

Sheet 29 of 66

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

Bemidji – Grand Rapids 230 kV Transmission Project
Route Maps
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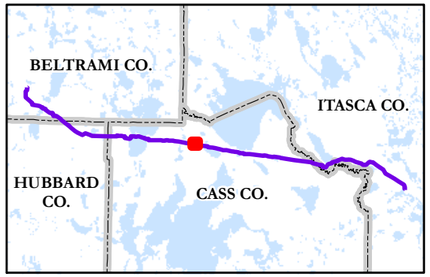

- Extended Route
- Route 4
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- 69 kV
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- 230 kV
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- Leech Lake Reservation
- Wildlife Management Area
- Forest Service
- County Boundary

US Hwy 2

Sucker Bay Rd NW

N

0 500 Feet

Aerial Photos: Fall '09/Spring '10

Sheet 30 of 66

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

Bemidji – Grand Rapids 230 kV Transmission Project
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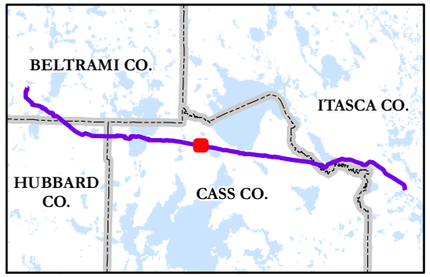

- Extended Route
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- 69 kV
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- Railroad
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- Wildlife Management Area
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- County Boundary

N

0 500 Feet

Sheet 31 of 66

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

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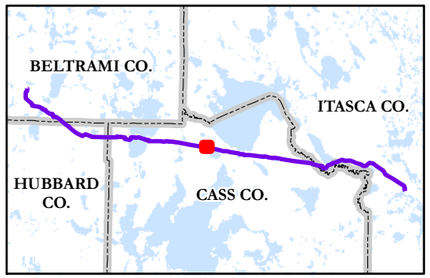

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- Leech Lake Reservation
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- Forest Service
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N

0 500 Feet

US Hwy 2

Aerial Photos: Fall '09/Spring '10

Sheet 32 of 66

Map Document: (\\mspe-gis-file\GISProj\Ottertail\48496\map_docs\mxd\State_Permits\PUC_Route_Maps_L11x17.mxd) 10/6/2010 -- 10:30:29 AM

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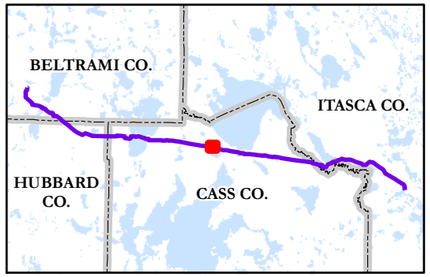

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N

0 500 Feet

Sheet 33 of 66

US Hwy 2

Aerial Photos: Fall '09/Spring '10

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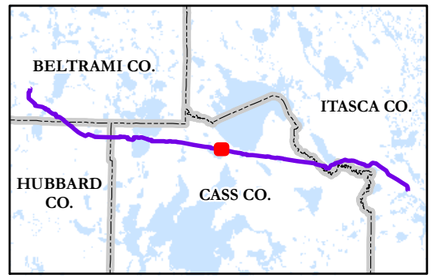

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Sheet 34 of 66

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Route Maps
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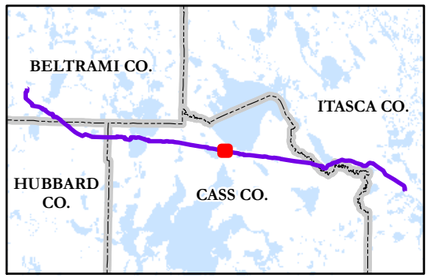

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Bemidji – Grand Rapids 230 kV Transmission Project
Route Maps
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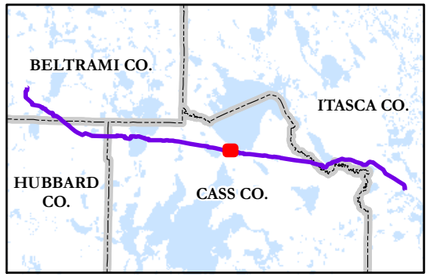

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N

0 500 Feet

US Hwy 2

WWinnie Rd NE

Aerial Photos: Fall '09/Spring '10

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Bemidji – Grand Rapids 230 kV Transmission Project
Route Maps
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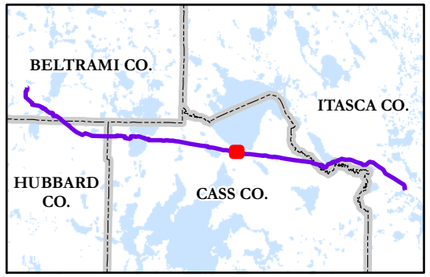

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N

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Sheet 37 of 66

Aerial Photos: Fall '09/Spring '10

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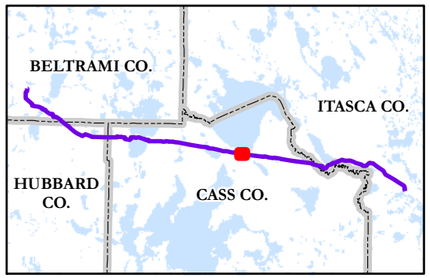

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Sheet 38 of 66

Aerial Photos: Fall '09/Spring '10

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