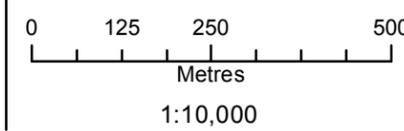


MAP SHEET FULLY WITHIN THE S1-ECO-302 FEATURE



Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, ProvMB, NRCAN  
 Date Created: July 23, 2014  
 Version: Draft



- Land Base**
- Transmission Line
  - Highway
  - Major Road
  - Local Road
  - Railway (Operational)
  - Railway (Discontinued)
  - First Nation
  - Mining
  - Provincial Forest
  - Township/Range

- Project Infrastructure**
- Angle Tower Locations
  - BPIII Final Preferred Route
  - 66 m Right of Way

- Points of Access\***
- Proposed Access Point
  - Major Stream Crossing
  - Abandoned Rail Crossing
  - Rail Crossing
  - Transmission Line Crossing
  - Proposed Access Route
- \*Labels correspond to BPIII Access Management Database

- ESS Features**
- |                          |                     |
|--------------------------|---------------------|
| <b>Heritage</b>          | <b>Ecosystem</b>    |
| Archaeological           | Species of Concern  |
| <b>Water</b>             | <b>Resource Use</b> |
| Water Crossing           | Forestry            |
| Fishing                  | Water               |
| Trapping                 | Groundwater         |
| <b>Soils and Terrain</b> |                     |
| Erosion                  |                     |

**Bipole III Transmission Project  
 Construction Environmental Protection Plan  
 Construction Section S1  
 Environmentally Sensitive Site Locations**

*Draft: For Discussion Purposes Only*

**ESS Group:** Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
S1-S11	S1-Hert-108	High ridge south of Assiniboine	534656	5510292	14N
S1-S11	S1-Hert-109	Potential Archaeological Site	535146	5509899	14N
S1-S11	S1-Hert-110	Creek bed - tributary to Assiniboine	537484	5509799	14N

**Potential Effects:**

*Potential disturbance to Heritage Resource*

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- Conduct site investigation with Archaeologist post clearing and prior to construction
- Minimize surface disturbance around the site to the extent possible
- Inspect excavated materials or surface disturbance for heritage resources and report any finds to Environmental Inspector
- Implement additional mitigation from site investigation

**ESS Group:** Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
S1-S11	S1-Aqua-132	Small, unnamed waterbody	538027	5509781	14N	N/A	N/A	None	None

**Potential Effects:**

*Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain*

**Specific Mitigation:**

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction
- No instream work or fording from April 1 to June 30

**ESS Group:** Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S10	S1-Aqua-202	Aquifer	Site: 56 to 60	E-529883 N-5514407	E-535261 N-5509768	14N	7102 m
S1-S11	S1-Aqua-202	Aquifer	Site: 71 to 73	E-535261 N-5509768	E-537462 N-5509798	14N	2201 m

**Potential Effects:**

*Potential groundwater contamination from a contingency event (e.g., spill)*

**Specific Mitigation:**

- Marshaling yards will be located on upland sites where possible.
- An Emergency Preparedness and Spill Response Plan will be developed and an emergency response spill kit will be kept on-site at all times in case of fluid leaks or spills from machinery.
- Qualified driller with appropriate experience will be contracted to work in areas affected by artesian conditions.
- Emergency response plans for sealing/grouting and pumping will be implemented as required.

**ESS Group:** Species of Concern

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S10	S1-Eco-302	Species of Concern (Plant)	Site: 54 to 59	E-529883 N-5514407	E-535261 N-5509768	14N	7102 m
S1-S11	S1-Eco-302	Species of Concern (Plant)	Site: 72 to 74	E-535261 N-5509768	E-538819 N-5509816	14N	3558 m

**Potential Effects:**

*Potential loss of previously known plants of conservation concern from clearing, construction, maintenance and decommissioning activities.*

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Use existing access roads and trails to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Stabilize sites immediately after construction and re-vegetate disturbed areas in accordance with site Rehabilitation Plan

**ESS Group:** Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S11	S1-RUse-316	Shelterbelt	Site: 75 to 76	E-535598 N-5509773	E-535614 N-5509773	14N	15 m
S1-S11	S1-RUse-317	South Norfolk Woodlots	Site: 77 to 78	E-537259 N-5509795	E-538060 N-5509806	14N	801 m

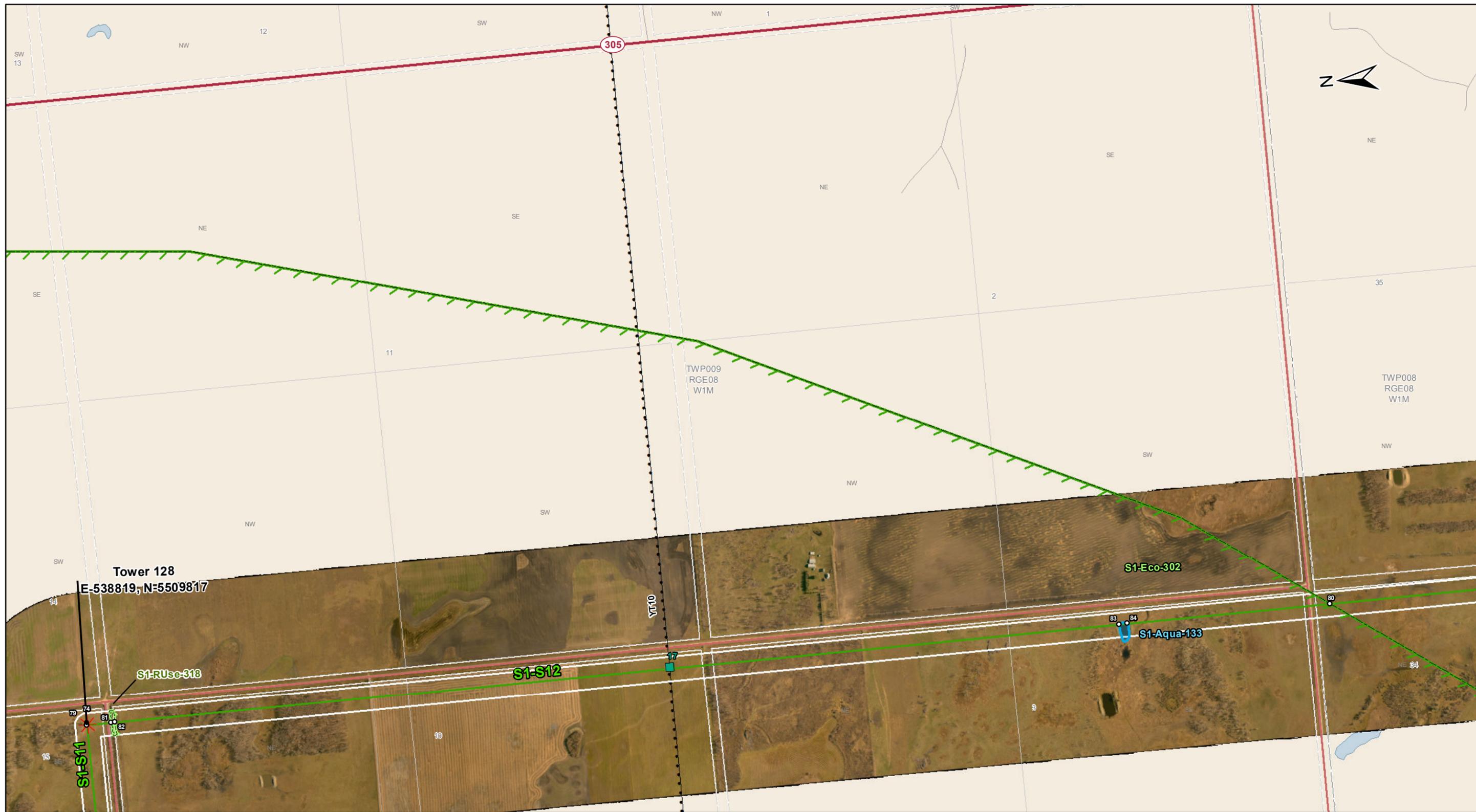
**Potential Effects:**

*Removal in area of ROW intersect*

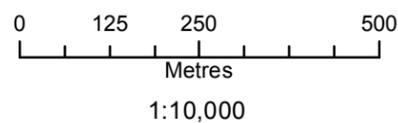
**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- Burn clearing debris during winter months only and ensure that all fires are extinguished prior to spring break-up; pile debris away from ROW edge
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to Vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber

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- Land Base**
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  - Highway
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- Proposed Access Point
  - Major Stream Crossing
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  - Rail Crossing
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  - Proposed Access Route
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- ESS Features**
- Water**
  - Water Crossing
  - Ecosystem**
  - Species of Concern
  - Resource Use**
  - Forestry

**Bipole III Transmission Project  
 Construction Environmental Protection Plan  
 Construction Section S1  
 Environmentally Sensitive Site Locations**

*Draft: For Discussion Purposes Only*

**ESS Group:** Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S12	S1-Aqua-133	Small, unnamed waterbpd	Site: 83 to 84	E-538847 N-5507000	E-538847 N-5506978	14N	22 m

**Potential Effects:**

*Increased erosion and sedimentation; rutting of floodplains; loss of riparian vegetation*

**Specific Mitigation:**

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction
- No instream work or fording from April 1 to June 30

**ESS Group:** Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S12	S1-RUse-318	Shelterbelt	Site: 81 to 82	E-538820 N-5509750	E-538820 N-5509739	14N	11m

**Potential Effects:**

*Removal in area of ROW intersect*

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- Burn clearing debris during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
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**ESS Group:** Species of Concern

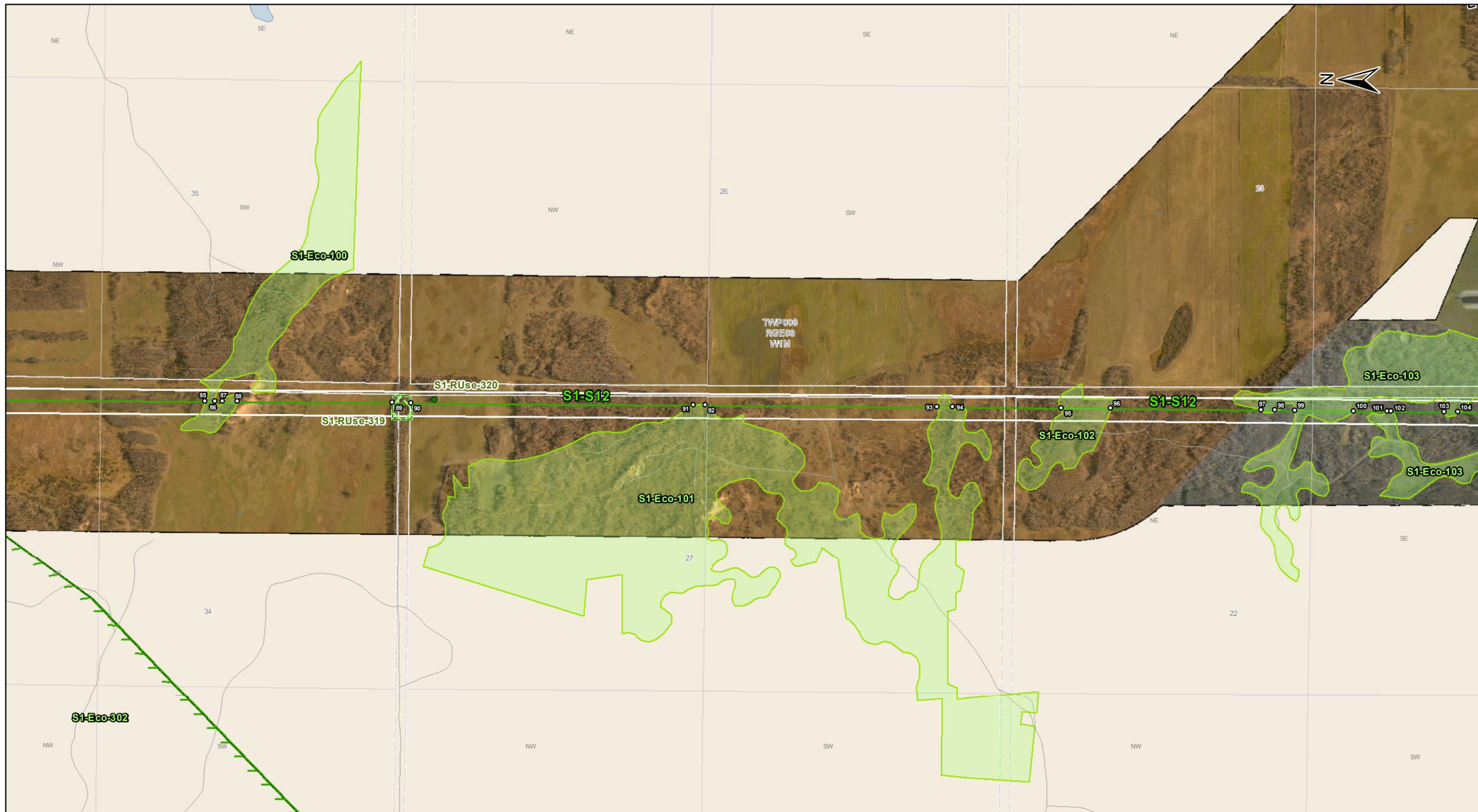
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S11	S1-Eco-302	Species of Concern (Plant)	Site: 72 to 74	E-535261 N-5509768	E-538819 N-5509816	14N	3558 m
S1-S12	S1-Eco-302	Species of Concern (Plant)	Site: 79 to 80	E-538819 N-5509816	E-538852 N-5506425	14N	3390 m

**Potential Effects:**

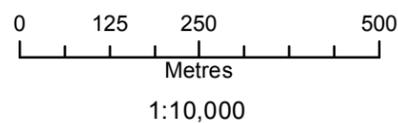
*Potential loss of previously known plants of conservation concern from clearing, construction, maintenance and decommissioning activities.*

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Use existing access roads and trails to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
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  - 66 m Right of Way

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  - Proposed Access Route
- \*Labels correspond to BP III Access Management Database

- ESS Features**
- Resource Use**
- Forestry
- Ecosystem**
- Habitat
- Ecosystem**
- Species of Concern
- Resource Use**
- Forestry

**Bipole III Transmission Project  
 Construction Environmental Protection Plan  
 Construction Section S1  
 Environmentally Sensitive Site Locations**

*Draft: For Discussion Purposes Only*

**ESS Group:** Forestry

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
S1-S13	S1-RUse-320	Shelterbelt	538880	5504753	14N

**Potential Effects:**

*Removal in area of ROW intersect*

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- Burn clearing debris during winter months only and ensure that all fires are extinguished prior to spring break-up; pile debris away from ROW edge
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to Vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber

**ESS Group:** Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S12	S1-RUse-319	Shelterbelt	Site: 89 to 90	E-538867 N-5504865	E-538868 N-5504815	14N	50m

**Potential Effects:**

*Removal in area of ROW intersect*

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- Burn clearing debris during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
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**ESS Group:** Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S12	S1-Eco-100	Species of Concern/Dry Upland Prairie	Site: 85 to 86	E-538863 N-5505374	E-538863 N-5505348	14N	26 m
S1-S12	S1-Eco-100	Species of Concern/Dry Upland Prairie	Site: 87 to 88	E-538863 N-5505327	E-538863 N-5505286	14N	41 m
S1-S12	S1-Eco-101	Species of Concern/Dry Upland Prairie	Site: 91 to 92	E-538875 N-5504050	E-538876 N-5504017	14N	32 m
S1-S12	S1-Eco-101	Species of Concern/Dry Upland Prairie	Site: 93 to 94	E-538882 N-5503389	E-538882 N-5503347	14N	41 m
S1-S12	S1-Eco-102	Species of Concern/Dry Upland Prairie	Site: 95 to 96	E-538885 N-5503051	E-538886 N-5502918	14N	132 m
S1-S12	S1-Eco-103	Species of Concern/Dry Upland Prairie	Site: 97 to 98	E-538889 N-5502510	E-538889 N-5502473	14N	37 m
S1-S12	S1-Eco-103	Species of Concern/Dry Upland Prairie	Site: 99 to 100	E-538890 N-5502419	E-538891 N-5502259	14N	159 m
S1-S12	S1-Eco-103	Species of Concern/Dry Upland Prairie	Site: 101 to 102	E-538891 N-5502169	E-538891 N-5502158	14N	10 m
S1-S12	S1-Eco-103	Species of Concern/Dry Upland Prairie	Site: 103 to 104	E-538892 N-5502014	E-538893 N-5501977	14N	36 m

**Potential Effects:**

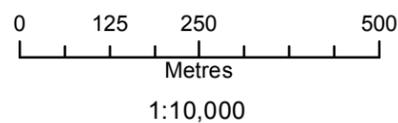
*Potential loss of previously known plants of conservation concern from clearing, construction, maintenance and decommissioning activities.*

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Use existing access roads and trails to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Stabilize sites immediately after construction and re-vegetate disturbed areas in accordance with site Rehabilitation Plan



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- ESS Features**
- Water**
    - Water Crossing
  - Access**
    - Intersection
  - Ecosystem**
    - Habitat
  - Resource Use**
    - Forestry

**Bipole III Transmission Project  
 Construction Environmental Protection Plan  
 Construction Section S1  
 Environmentally Sensitive Site Locations**

*Draft: For Discussion Purposes Only*

**ESS Group:** Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
S1-S16	S1-Aqua-134	Unnamed small wetland area	539814	5500670	14N	N/A	N/A	Low	No Fish Habitat

**Potential Effects:**

*Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain*

**Specific Mitigation:**

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Timing Windows, Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

**ESS Group:** Intersection

Sec-Seg ID	ESS ID	Location	ESS Name	Crossing Coordinates	UTM Zone
S1-S14	S1-Acss-101	C4	Snowmobile Trail	E-539827 N-5499926	14N

**Potential Effects:**

*Potential interference with snowmobilers; safety issues*

**Specific Mitigation:**

- Identify and flag prior to start of work
- Avoid surface damage to and obstruction of access route
- Post warning markers and signs at snowmobile trail location
- Notify snowmobile club/users and local authorities regarding construction activities and schedule, and address concerns prior to construction

**ESS Group:** Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S12	S1-Eco-103	Species of Concern/Dry Upland Prairie	Site: 105 to 106	E-538893 N-5501892	E-538893 N-5501870	14N	21 m
S1-S13	S1-Eco-103	Species of Concern/Dry Upland Prairie	Site: 107 to 108	E-538893 N-5501870	E-539007 N-5501825	14N	122 m
S1-S14	S1-Eco-104	Species of Concern/Dry Upland Prairie	Site: 111 to 112	E-539833 N-5499127	E-539834 N-5499041	14N	85 m
S1-S14	S1-Eco-104	Species of Concern/Dry Upland Prairie	Site: 113 to 114	E-539834 N-5498957	E-539835 N-5498809	14N	148 m
S1-S14	S1-Eco-104	Species of Concern/Dry Upland Prairie	Site: 115 to 116	E-539837 N-5498531	E-539838 N-5498518	14N	13 m

**Potential Effects:**

*Potential loss of previously known plants of conservation concern from clearing, construction, maintenance and decommissioning activities.*

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Use existing access roads and trails to the extent possible
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**ESS Group:** Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S14	S1-RUse-321	Shelterbelt	Site: 109 to 110	E-539817 N-5501233	E-539817 N-5501225	14N	7 m
S1-S14	S1-RUse-322	Shelterbelt	Site: 117 to 118	E-539839 N-5498286	E-539839 N-5498272	14N	14 m

**Potential Effects:**

*Removal in area of ROW intersect*

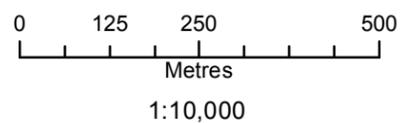
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- ESS Features**
- Wildlife**
  - Birds and Habitat
  - Ecosystem**
  - Habitat
  - Resource Use**
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**Bipole III Transmission Project  
 Construction Environmental Protection Plan  
 Construction Section S1  
 Environmentally Sensitive Site Locations**

*Draft: For Discussion Purposes Only*

**ESS Group:** Birds and Habitat

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
S1-S17	S1-Wild-106	Waterfowl staging area	542703	5497685	14N

**Potential Effects:**

*Higher risk of wire collision, risk of wire collision is localized to the right-of-way*

**Specific Mitigation:**

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain applicable setback during nesting and breeding timing window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

**ESS Group:** Forestry

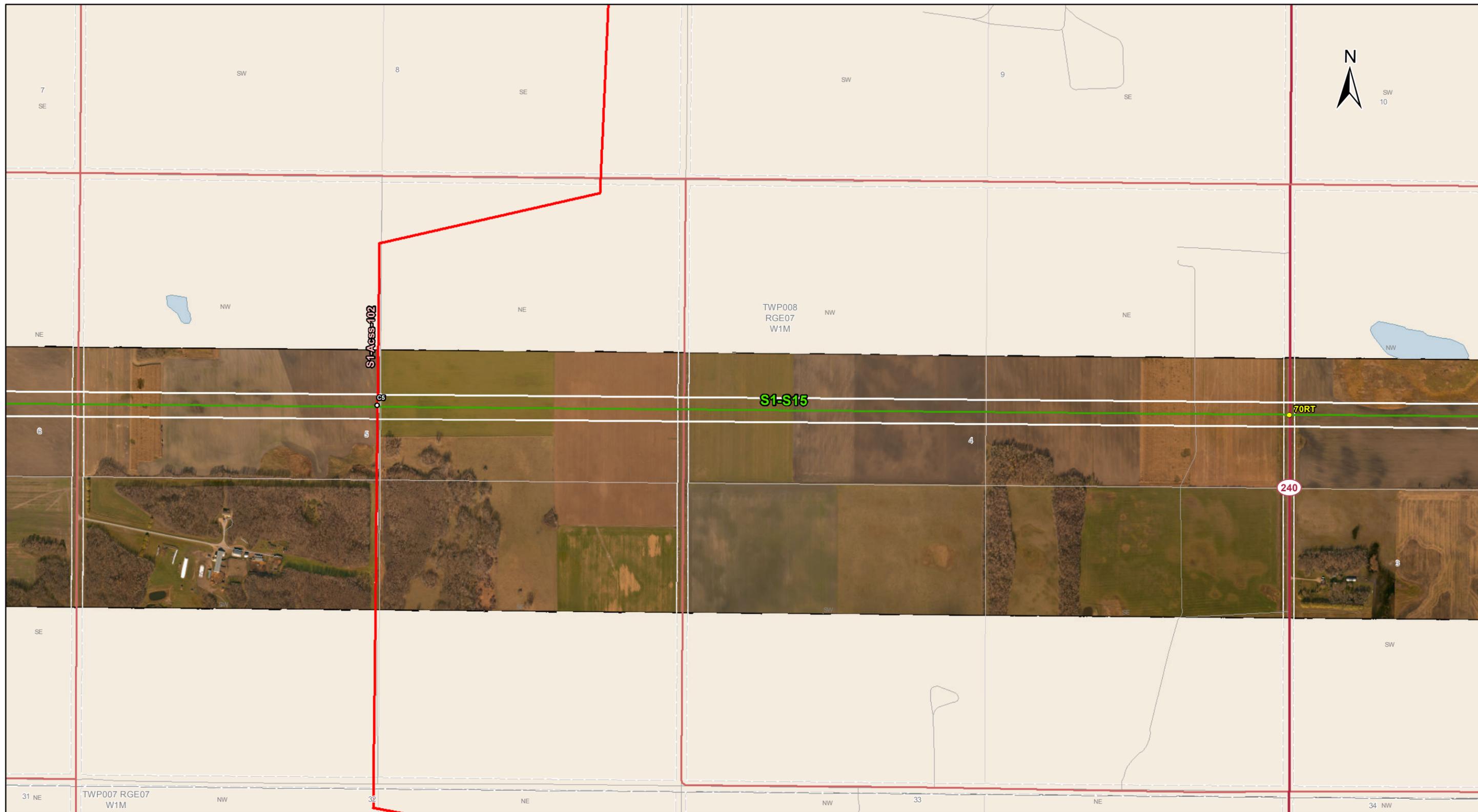
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S14	S1-RUse-322	Shelterbelt	Site: 117 to 118	E-539839 N-5498286	E-539839 N-5498272	14N	14m

**Potential Effects:**

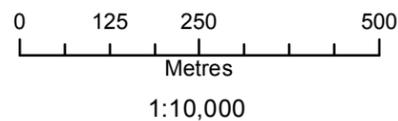
*Removal in area of ROW intersect*

**Specific Mitigation:**

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- Intersection

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**ESS Group:** Intersection

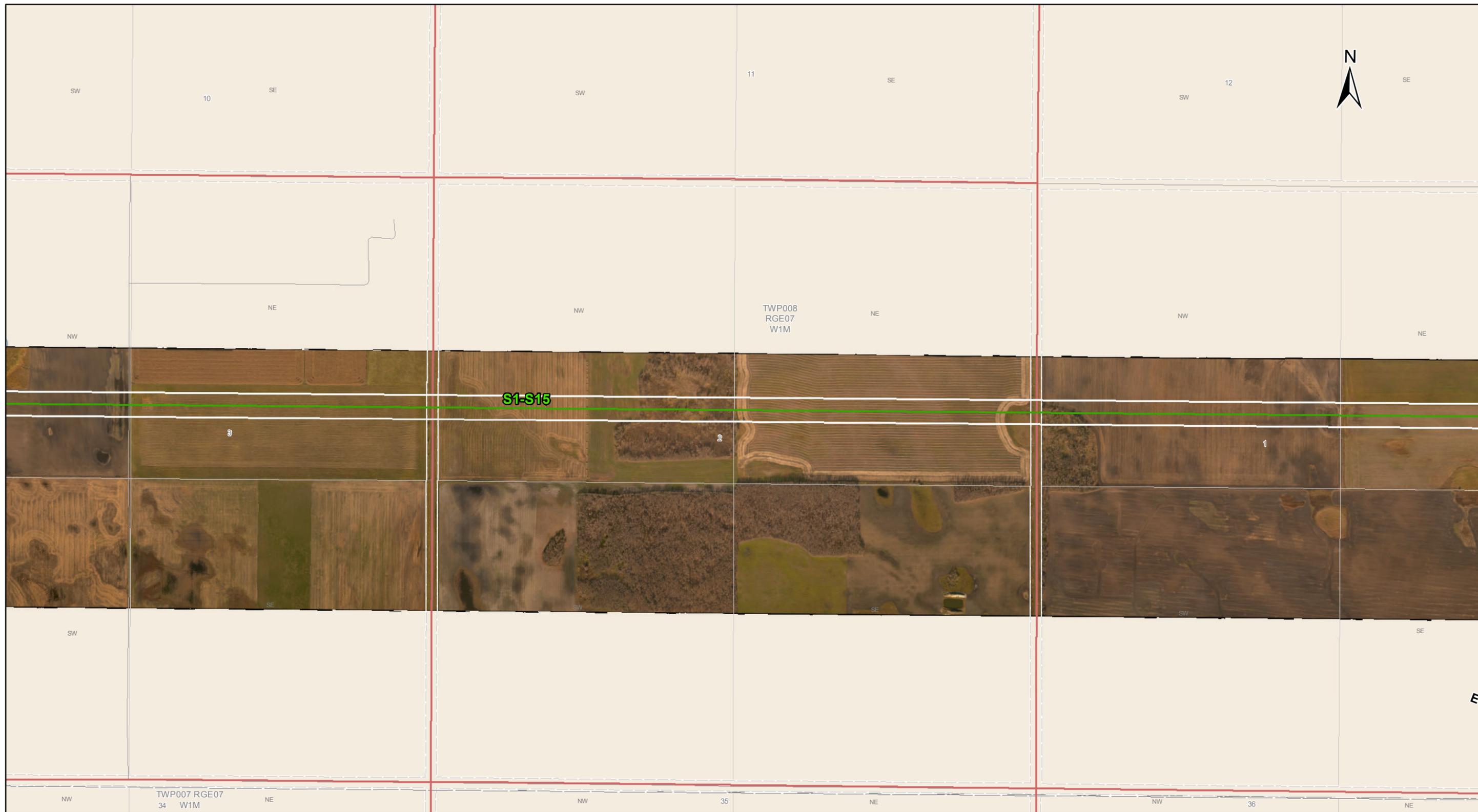
Sec-Seg ID	ESS ID	Location	ESS Name	Crossing Coordinates	UTM Zone
S1-S15	S1-Acss-102	C5	Snowmobile Trail	E-544726 N-5497702	14N

**Potential Effects:**

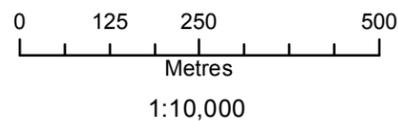
*Potential interference with snowmobilers; safety issues*

**Specific Mitigation:**

- Identify and flag prior to start of work
- Avoid surface damage to and obstruction of access route
- Post warning markers and signs at snowmobile trail location
- Notify snowmobile club/users and local authorities regarding construction activities and schedule, and address concerns prior to construction



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- Land Base**
- Transmission Line
  - Highway
  - Major Road
  - Local Road
  - Railway (Operational)
  - Railway (Discontinued)
  - First Nation
  - Mining
  - Provincial Forest
  - Township/Range

- Project Infrastructure**
- \* Angle Tower Locations
  - BPIII Final Preferred Route
  - 66 m Right of Way

- Points of Access\***
- Proposed Access Point
  - Major Stream Crossing
  - ▲ Abandoned Rail Crossing
  - ▲ Rail Crossing
  - Transmission Line Crossing
  - Proposed Access Route
- \*Labels correspond to BPIII Access Management Database

**ESS Features**

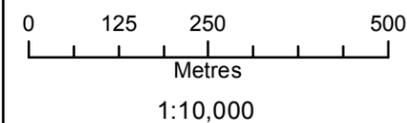
**Bipole III Transmission Project  
 Construction Environmental Protection Plan  
 Construction Section S1  
 Environmentally Sensitive Site Locations**

*Draft: For Discussion Purposes Only*

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Coordinate System: UTM Zone 14N NAD83  
 Data Source: MB Hydro, ProvMB, NRCAN  
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- ESS Features**
- Heritage**
- Archaeological
- Resource Use**
- Forestry

**Bipole III Transmission Project  
 Construction Environmental Protection Plan  
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**ESS Group:** Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
S1-S19	S1-Hert-111	Grove of trees	553446	5496647	14N

**Potential Effects:**

*Potential disturbance to Heritage Resource*

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- Conduct site investigation with Archaeologist post clearing and prior to construction
- Minimize surface disturbance around the site to the extent possible
- Inspect excavated materials or surface disturbance for heritage resources and report any finds to Environmental Inspector
- Implement additional mitigation from site investigation

**ESS Group:** Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S17	S1-RUse-323	Shelterbelt	Site: 119 to 120	E-552400 N-5496681	E-552407 N-5496680	14N	7 m
S1-S17	S1-RUse-324	Shelterbelt	Site: 121 to 122	E-552948 N-5496662	E-552952 N-5496662	14N	3 m

**Potential Effects:**

*Removal in area of ROW intersect*

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- Burn clearing debris during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to Vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber