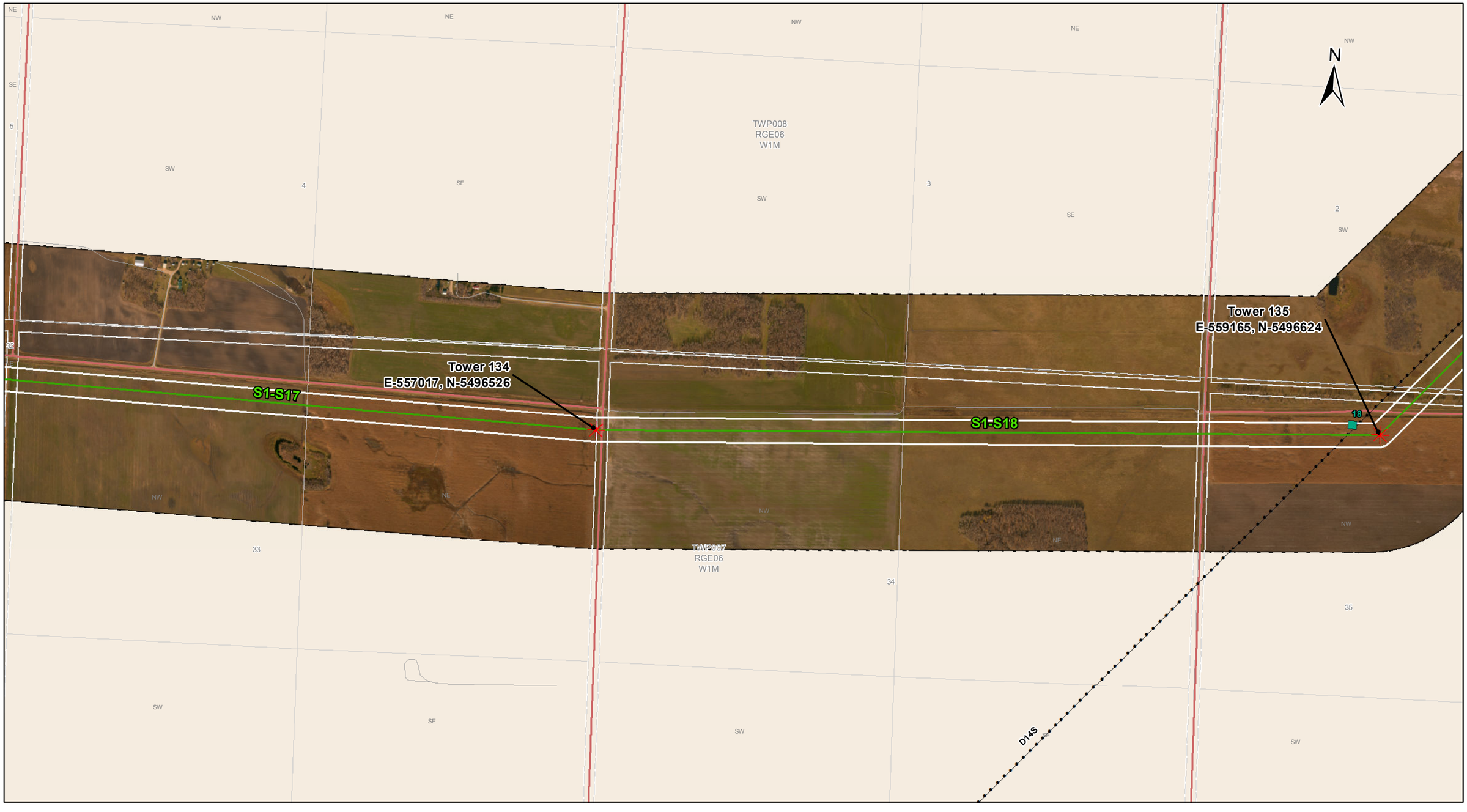

Manitoba Hydro

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

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Land Base
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- Railway (Discontinued)
- First Nation
- Mining
- Provincial Forest
- Township/Range

Project Infrastructure
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- BPIII Final Preferred Route
- 66 m Right of Way

Points of Access*
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*Labels correspond to BPIII Access Management Database

ESS Features

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

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Map 301

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ESS Features
Heritage
- Archaeological

Resource Use
- Forestry

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

Map 302

Draft: For Discussion Purposes Only

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
S1-S22	S1-Hert-112	Creek bed	562628	5497635	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

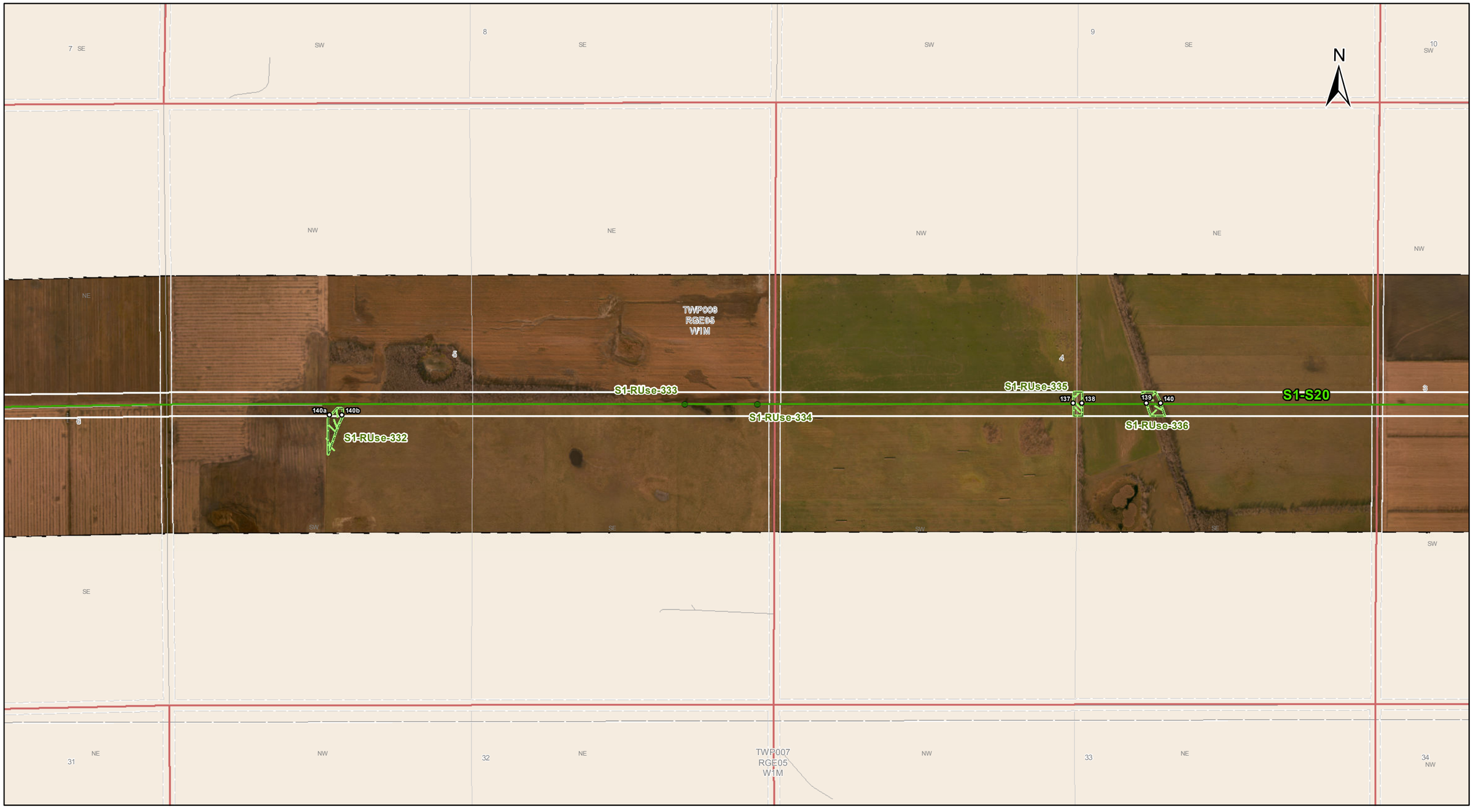
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S19	S1-RUse-325	Shelterbelt	Site: 123 to 124	E-559496 N-5496990	E-559503 N-5496998	14N	11 m
S1-S19	S1-RUse-326	Shelterbelt	Site: 125 to 126	E-559783 N-5497307	E-559792 N-5497318	14N	13 m
S1-S19	S1-RUse-327	Shelterbelt	Site: 127 to 128	E-559875 N-5497409	E-559882 N-5497416	14N	9 m
S1-S19	S1-RUse-328	Shelterbelt	Site: 129 to 130	E-559950 N-5497492	E-559957 N-5497500	14N	10 m
S1-S20	S1-RUse-329	Shelterbelt	Site: 131 to 132	E-560290 N-5497563	E-560302 N-5497563	14N	11 m
S1-S20	S1-RUse-330	Shelterbelt	Site: 133 to 134	E-561190 N-5497593	E-561195 N-5497593	14N	4 m
S1-S20	S1-RUse-331	Shelterbelt	Site: 135 to 136	E-563069 N-5497656	E-563074 N-5497656	14N	5 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



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ESS Features
Resource Use
- Forestry

Resource Use
- Forestry

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

Map 303

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ESS Group: Forestry

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
S1-S22	S1-RUse-333	Shelterbelt	565005	5497697	14N
S1-S22	S1-RUse-334	Shelterbelt	565204	5497701	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-S20	S1-RUse-335	Shelterbelt	Site: 137 to 138	E-566066 N-5497716	E-566090 N-5497716	14N	23 m
S1-S20	S1-RUse-336	Shelterbelt	Site: 139 to 140	E-566266 N-5497719	E-566305 N-5497720	14N	39 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
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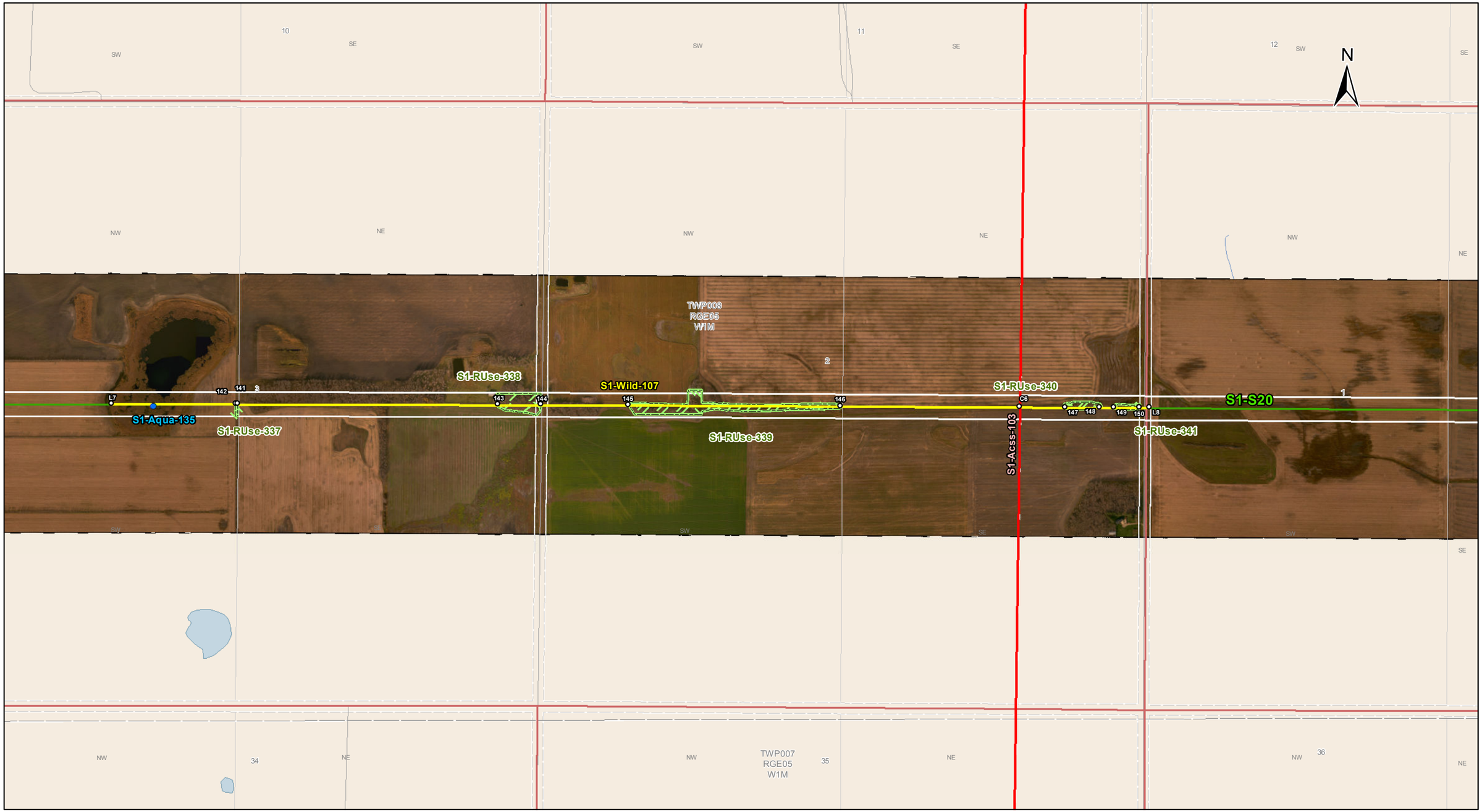

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ESS Features
Water
- Water Crossing

Access
- Intersection

Wildlife
- Birds and Habitat

Resource Use
- Forestry

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

Draft: For Discussion Purposes Only

Map 304

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-S22	S1-Aqua-135	Unnamed small lake	567492	5497732	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: Birds and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S22	S1-Wild-107	Colonies and waterfowl staging area	Site: L7 to L8	E-567377 N-5497739	E-570194 N-5497777	14N	2817m

Potential Effects:

Higher risk of wire collision, Disturbance during breeding and nesting, Risk of wire collision is localized to the right-of-way while construction disturbance can effect colonies up to 400 meters away

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: Intersection

Sec-Seg ID	ESS ID	Location	ESS Name	Crossing Coordinates	UTM Zone
S1-S20	S1-Acss-103	C6	Snowmobile Trail	E-569842 N-5497773	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: Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S20	S1-RUse-337	Shelterbelt	Site: 141 to 142	E-567713 N-5497744	E-567719 N-5497744	14N	5 m
S1-S20	S1-RUse-338	Shelterbelt	Site: 143 to 144	E-568425 N-5497755	E-568542 N-5497757	14N	117 m
S1-S20	S1-RUse-339	Shelterbelt	Site: 145 to 146	E-568780 N-5497760	E-569355 N-5497767	14N	574 m
S1-S20	S1-RUse-340	Shelterbelt	Site: 147 to 148	E-569965 N-5497775	E-570058 N-5497776	14N	93 m
S1-S20	S1-RUse-341	Shelterbelt	Site: 149 to 150	E-570097 N-5497776	E-570166 N-5497777	14N	69 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
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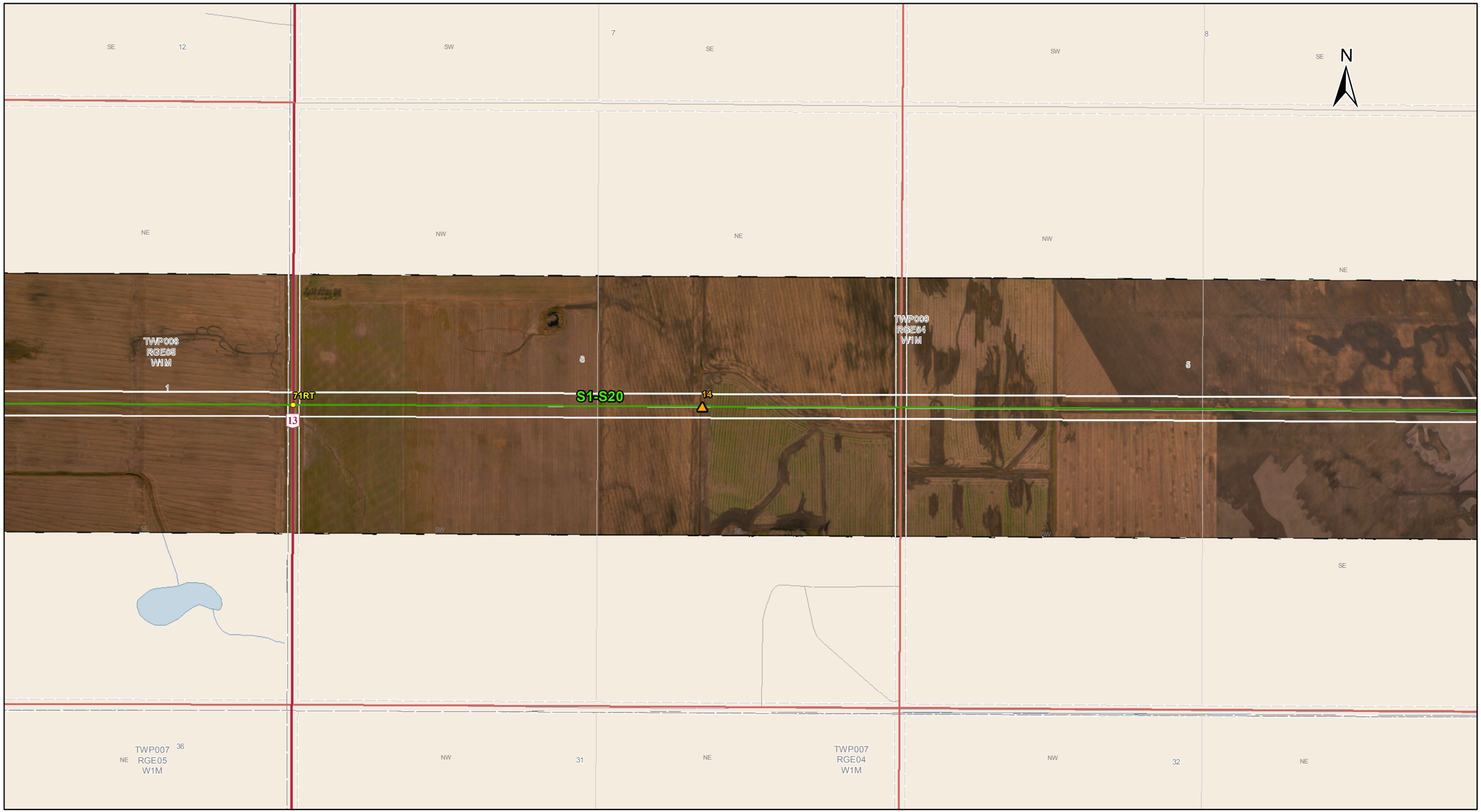

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ESS Features

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

Draft: For Discussion Purposes Only

Map 305

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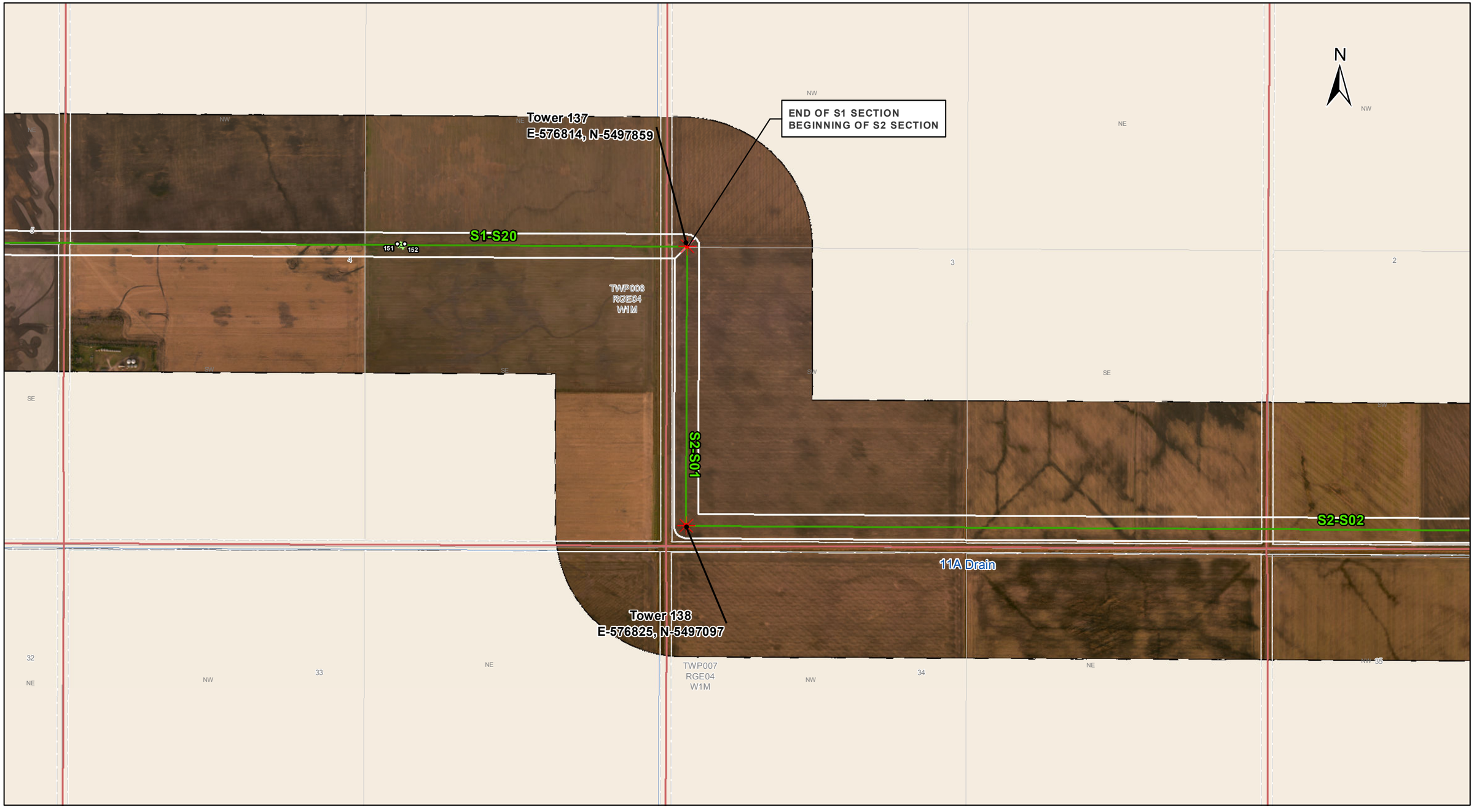

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ESS Features
Resource Use
- Forestry

Bipole III Transmission Project
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Construction Section S1
Environmentally Sensitive Site Locations

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Map 306

ESS Group: Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
S1-S20	S1-RUse-342	Shelterbelt	Site: 151 to 152	E-576025 N-5497849	E-576044 N-5497850	14N	19m

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
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