

**Stantec**

**NIAGARA REGION WIND FARM  
DESIGN AND OPERATIONS REPORT**

## **Appendix D**

### **Property Line Setback Report**



**NIAGARA REGION WIND FARM  
PROPERTY LINE SETBACK ASSESSMENT  
REPORT**

File No. 160950269  
April 2013

Prepared for:

**Niagara Region Wind Corporation**  
277 Lakeshore Road East, Suite 211  
Oakville, ON L6J 6J3

Prepared by:

**Stantec Consulting Ltd.**  
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## **1.0 Introduction**

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The purpose of the Property Line Setback Assessment Report is to demonstrate that siting some of the turbines within the prescribed hub height setback from non-participating properties will not result in any adverse impacts on neighbouring businesses, infrastructure, or land use activities. This assessment is based on evaluating land uses within the vicinity of the turbines, confirming the presence of any structures that may occur closer than the hub height of the adjacent turbines, and to describe preventative measures to address potential adverse impacts.

### **1.1 PROJECT OVERVIEW**

Niagara Region Wind Corporation (NRWC) is proposing to develop, construct, and operate the 230 Megawatt (MW) Niagara Region Wind Farm (the Project) within the Townships of West Lincoln and Wainfleet and the Town of Lincoln within the Niagara Region and within Haldimand County in Southern Ontario, in response to the Government of Ontario's initiative to promote the development of renewable electricity in the province. Project infrastructure such as collector lines and transmission lines will be sited along the boundaries of the Township of Pelham and Town of Grimsby, but will be sited outside of these municipalities on the opposite side of the road.

The basic components of the Project include 77 wind turbine generators (80 potential locations identified) each with a rated capacity ranging from approximately 2.3 MW to 3.0 MW for a maximum installed nameplate capacity of 230 MW. An overhead and/or underground collection system connects each turbine to one of two transformer substations along a series of 34.5 kilovolt (kV) lines. Turbines are grouped into nine collector circuits that bring power (and data via fibre optic lines) to one of the transformer substations. Voltage is stepped up from 34.5kV to 115kV at each transformer substation by means of a 100 MVA base rated transformer with two stages of cooling (via fans). A 115kV transmission line transports power from each of the two transformer substations north to the tap-in location where the Project is connected to the Hydro One Networks Inc. (HONI) owned transmission line, south of the Queen Elizabeth Way (QEW) in the Town of Lincoln. Power generated from this Project will be conveyed along the existing HONI transmission line to the Beach Transformer Station in Hamilton.

Alternate transmission and collector lines routes have been identified and assessed to provide options during detailed design, the final selection of which route to follow will be confirmed following the consultation process with local distribution companies, agency review and detailed design.

Other Project components include access roads, junction boxes (or pad-mounted disconnect switches) and associated culverts at swales and waterbody crossings. Temporary components during construction may include temporary laydown areas (for storage and staging areas at each turbine location), crane pads or mats, staging areas along access roads, delivery truck turnaround areas, central construction laydown areas and crane paths.

## 1.2 REPORT REQUIREMENTS

This Property Line Setback Assessment Report is one component of the REA application for the Project, and has been prepared in accordance with O. Reg. 359/09, the Ontario Ministry of Natural Resources' (MNR's) Approval and Permitting Requirements Document for Renewable Energy Projects (September 2009), and MOE's "Technical Guide to renewable Energy Approvals (2012)". This report is required in accordance with section 53(3) of O. Reg. 359/09 to reduce the property line setback from hub height to the length of the turbine blade (blade length) plus 10 metres.

The following table summarizes the documentation requirements as specified under O. Reg. 359/09.

**Table 1.1: Property Line Setback Assessment Report Requirements: O. Reg. 359/09**

Requirements	Completed	Section Reference
As part of an application for the issues of a renewable energy approval or a certificate of approval in respect of the construction, installation or expansion of the wind turbine, the person who is constructing, installing or expanding the wind turbine submits a written assessment,		
1. Demonstrating that the proposed location of the wind turbine will not result in adverse impacts on nearby business, infrastructure, properties or land use activities, and	✓	Appendix B
2. Describing any preventative measures that are required to be implemented to address the possibility of any adverse impacts.	✓	Section 2.0, Appendix B

## 1.3 SETBACK REQUIREMENTS

Property boundary setbacks are the equivalent of the turbine hub height in accordance with section 53(1)(b) of O. Reg. 359/09, which can be reduced to blade length plus 10 m if the REA application includes a Property Line Setback Assessment Report per section 53(3) of O. Reg. 359/09. This report is intended to address a reduction of the property line setback by identifying and evaluating land uses on neighbouring properties and by demonstrating that siting the turbine in such a location will not result in any adverse impacts on neighbouring businesses, infrastructure or land use activities through the implementation of appropriate preventative measures.

The proposed turbine hub height for the Project is either 124 m or 135 m, to be confirmed through detailed design. In order to accommodate either scenario, both hub height cases have been identified in this report with the more conservative setback (135 m) used to identify where a property line assessment is required and to assess impacts on adjacent land uses. The turbine blade length of the E101 turbine is 48.6 m and the blade length of the E82 turbine is 38.8m, as confirmed in the Wind Turbine Specification Report. As such, the more conservative

blade length of the E101 turbine has been assessed in this report when considering the blade length plus 10 m setback from property lines and roadways.

All of the proposed turbine sites meet the minimum setback requirement of at least 550 metres (m) from any non-participating noise receptor in accordance with section 54(1) of O. Reg. 359/09.

All of the proposed turbines meet the minimum setback of at least blade length plus 10 m (48.6 m blade length + 10m = 58.6 m) from any public road or railway in accordance with section 53(1)(a) of O. Reg. 359/09.

Fifty-four (54) turbines are located less than hub height (135 m) to a non-participating property line. Eighty-two (82) non-participating property lines are within 135m of the proposed turbines.

One of the proposed turbines is located less than blade length plus 10 m (58.6 m) from a non-participating property line. Specifically, Turbine T3 is located 56m from an adjacent property line. NRWC has entered into a written agreement with the landowner of this adjacent property to permit the location of the turbine at a distance of 56m from the property line in accordance with section 53(2)(b) of O. Reg. 359/09. A copy of the redacted agreement between the NRWC and the adjacent non-participating property owner is included in **Appendix C**.

In no case are any turbine blades “overhanging” onto a non-participating property. All turbines are located more than the blade length (48.6m) from all non-participating properties.

Mapping of all turbine locations demonstrating the 124m, 135m and 58.6m setbacks are provided in **Appendix A**.

## **1.4 PREVENTATIVE MEASURES**

Possible adverse impacts to adjacent land uses or structures caused by constructing and operating wind turbines within the property line setback distance are related to catastrophic failure or collapse of a turbine or concerns over “ice throw” during winter operation.

### **1.4.1 Catastrophic Failure**

The primary preventative measure against turbine collapse relates to the design, construction and maintenance of the turbines. All ENERCON wind energy converters are designed and certified according to the latest international standards. Currently, the basis for design are the internationally acknowledged IEC-61400 standards. These standards identify the assumptions and conditions used to define the load cases for which the wind turbine has to be designed. Furthermore, all ENERCON wind turbines are verified by independent third party engineer firms to assure conformity with the IEC standards.

In addition to adhering to the IEC standards, the ENERCON wind turbines incorporate safety systems which feature various control sensors that protect the turbine and its components from damage. This includes high and low temperatures, vibrations, oscillations and physical strain. In the case that one or more of these sensors detect conditions outside the design limits, the main control of the turbine will take the appropriate measures to halt or reduce the turbine rotation and power production.

To the extent of ensuring survivability and preventing turbine collapse, ENERCON incorporates cast iron components, concrete towers and gravity foundations in the design of its wind turbines. The cast iron components are used in key load bearing sections of the turbine, such as the main carrier, thus adding strength. The concrete tower provides a more rigid tower which considerably reduces lateral movement of the turbine due to high wind speeds. The gravity foundation is essentially a large mass heavy enough to weigh down the turbine even in extreme wind conditions approaching 60 metres per second (216 km/h).

ENERCON has been manufacturing commercial wind turbines since the early 1980's. As of mid-2012, ENERCON has installed over 19,600 wind turbines worldwide for an installed capacity of over 28,200 MW. Due to ENERCON's conservative design methodology, there have been no collapse of megawatt scale wind turbines currently being operated and maintained by ENERCON and the likelihood of turbine collapse due to design is negligible.

In addition, preventative maintenance of these turbines is completed on an on-going basis to ensure proper functioning, maximize efficiency and maintain longevity of the turbines. Maintenance activities include both scheduled and unscheduled maintenance, as discussed in the Design and Operations Report. Maintenance including regular visual inspections, inspection of mechanical components, inspection of electrical components, greasing and other general maintenance will occur on a regular basis. Unscheduled maintenance activities could include replacement of major components such as blades or generators. Such maintenance activities are undertaken to ensure the turbines operate in accordance with their intended energy production and safety design measures.

NRWC will hire a specialized Operation and Maintenance Contractor for specific maintenance tasks. It is expected that up to 12 full-time operation and maintenance staff from NRWC and the Operation and Maintenance Contractor would be employed by the wind project during the operation phase to carry out the various on-going maintenance activities. Additional staff would be brought in on an as needed basis to support the maintenance activities required for the project. The operations and maintenance logs and checks will be documented by NRWC and/or the Operation and Maintenance Contractor.

#### **1.4.2 Ice Throw**

During operation of the turbines, concerns surrounding possible damage to structures or human health relating to "ice throw" have been raised. Ice throw is caused when ice that has accumulated on the blades of a turbine during sub-zero temperatures, primarily as a result of

freezing rain, becomes dislodged from the blades and falls to the ground. In order to prevent this phenomenon from occurring, the turbines for this Project will be equipped with a preventative blade de-icing system and a contingent control system.

The blade de-icing system detects conditions for potential ice formation and heats the blades to prevent the buildup of ice during winter operation. Technology incorporated into the turbines themselves will monitor for conditions conducive to potential ice formation, which when detected will enact heaters in the blades to circulate warm air and prevent ice formation.

An additional control and monitoring system will take action should the de-icing system not be effective in preventive ice during extreme weather conditions. In this case, sensors will detect ice on the blades by analysing the real-time power curve of the turbine and noting a change in power performance due to the weight and friction from the ice on the blades. The turbine will shut down operation as soon as ice is detected on the blades and will not resume operation until the ice accumulation has been cleared.

## **2.0 Property Line Setback Analysis**

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An analysis for each proposed wind turbine site within hub height of any non-participating property boundary is provided in the table in **Appendix B**, which includes an assessment for both hub height scenarios (124 m and 135 m). This assessment defines the distance of each turbine centre point to the non-participating property line and the distance of overlap for the hub height setback. The assessment identifies any features or land uses within the overlap area, such as businesses, infrastructure, natural features and land use activities, along with preventative measures that will be employed to minimize the potential effects.

The primary preventative measures relate to design and construction of the turbines to avoid catastrophic failures and “ice throw”. The turbines would be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain automatic shutdown mechanisms in instances such as extreme weather. In addition, a blade de-icing system will be installed in the turbines along with a contingent shut-down control in the case of ice accumulation. All of these measures are standard best practices.

The analysis as presented in **Appendix B** demonstrates that siting the turbines in the identified locations will not result in any adverse impacts on neighbouring businesses, infrastructure or land use activities.

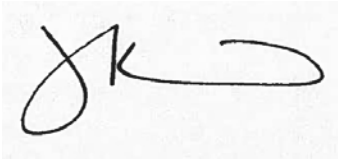
### **3.0 Closure**

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The Niagara Region Wind Farm Property Line Setback Assessment Report has been prepared by Stantec for NRWC in accordance with Item 4, Table 1 of Ontario Regulation 359/09 and the *Technical Guide to Renewable Energy Approvals* (MOE, 2012). Information compiled in this report has been provided in association with ENERCON, with additional support from Hatch Ltd., PCL Construction Ltd., and the Niagara Region Wind Corporation.

This report has been prepared by Stantec for the sole benefit of Niagara Region Wind Corporation, and may not be used by any third party without the express written consent of the Niagara Region Wind Corporation. The data presented in this report are in accordance with Stantec's understanding of the Project as it was presented at the time of reporting.

#### **STANTEC CONSULTING LTD.**



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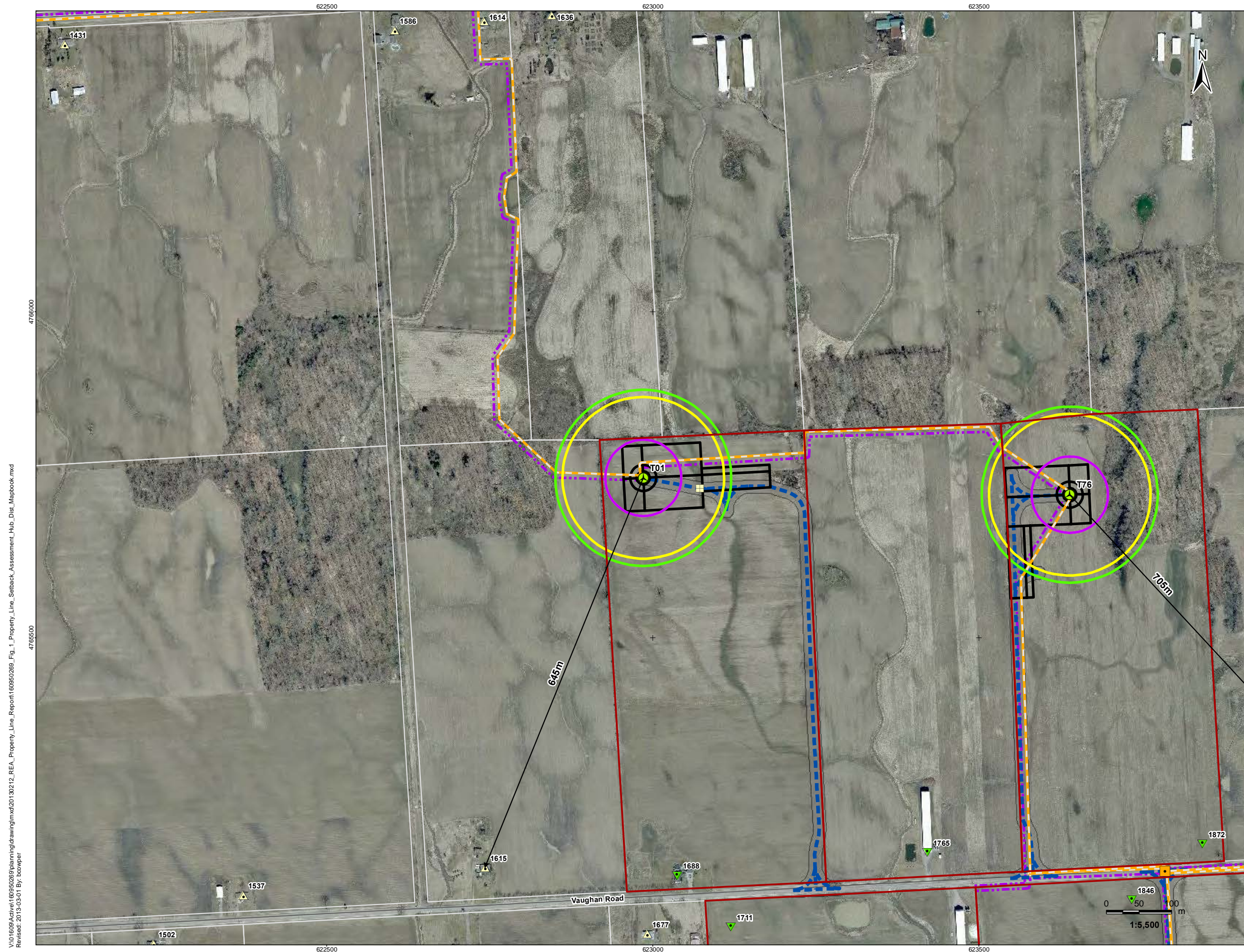
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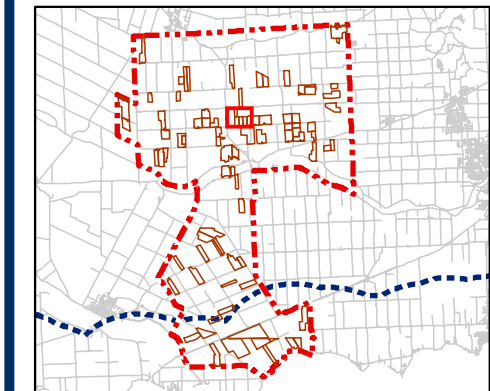
# **Appendix A**

## **Figures**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
1. Coordinate System: NAD 1983 UTM Zone 17N).
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Figure No.  
 1.1

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


Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T01**

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 Revised: 2013-03-01 By: bcowper





### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
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-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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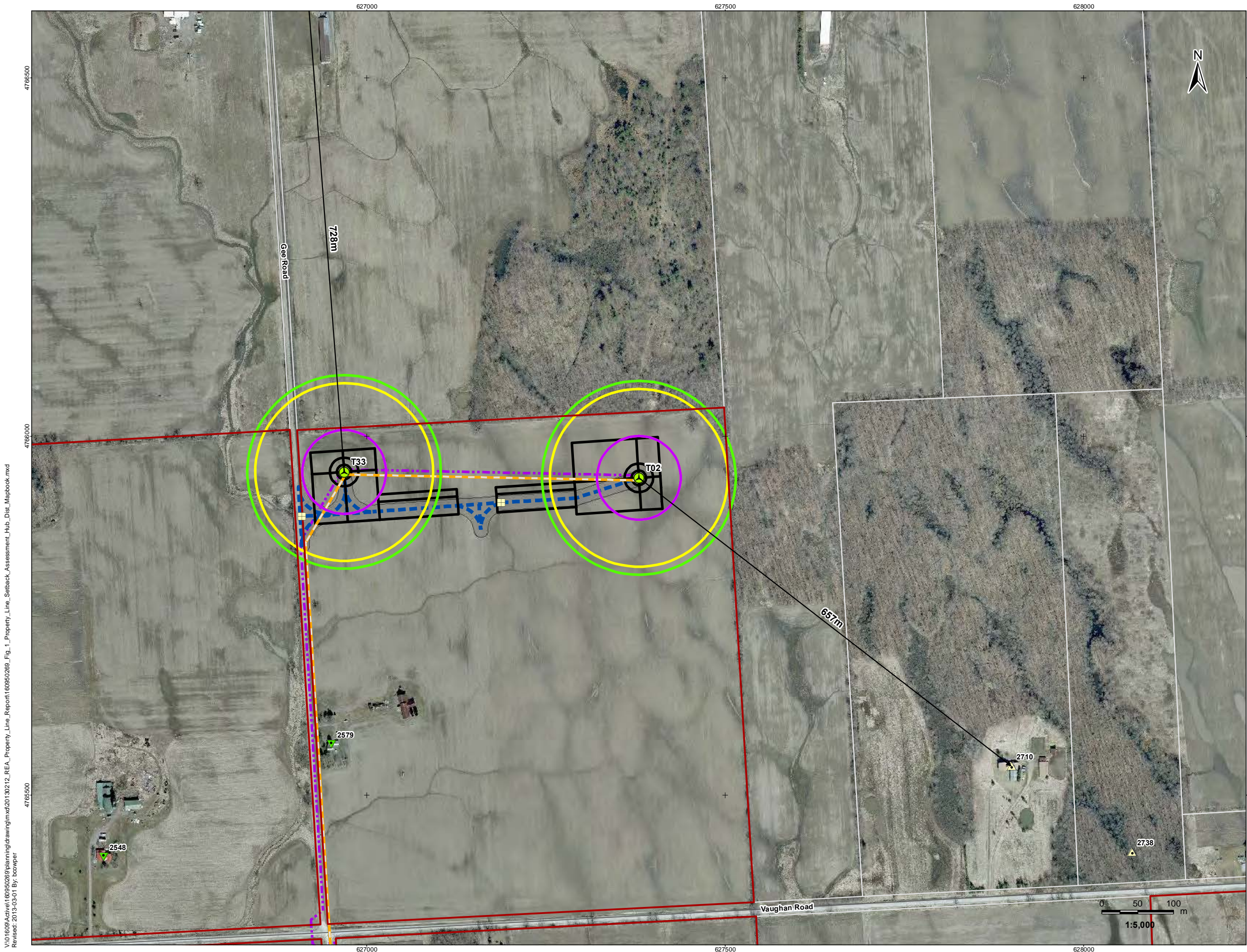
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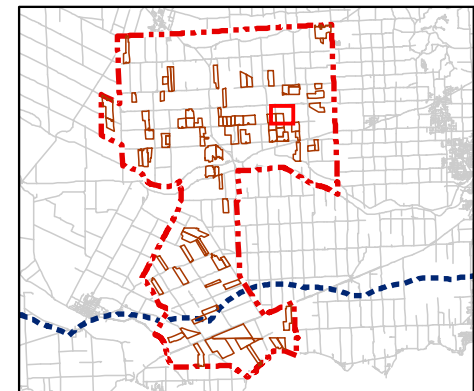
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**Inset Maps for  
Property Line Setback – T01**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - Non-Participating Receptor
  - Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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Figure No.  
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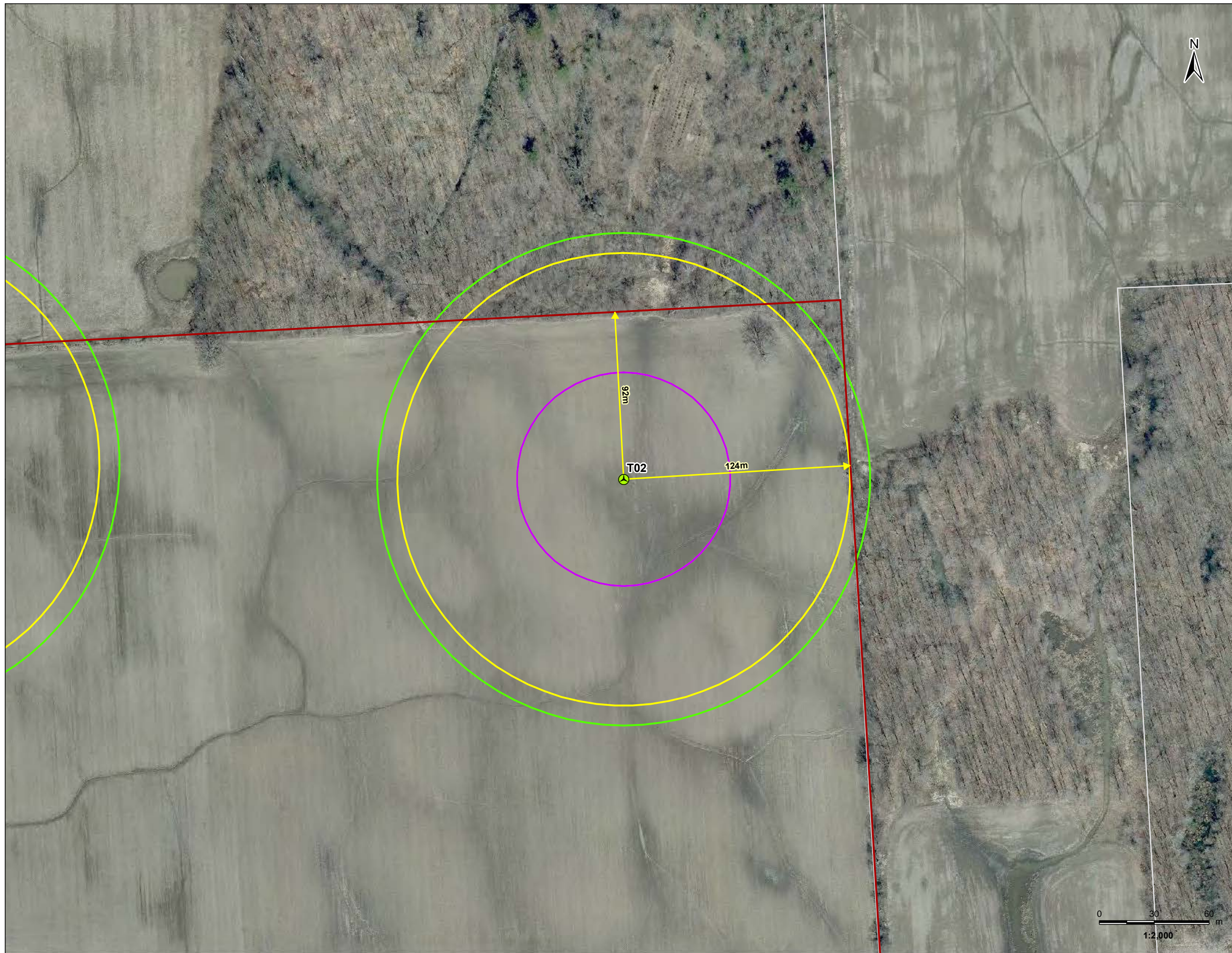
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Title  
**Overview Maps for Property  
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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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Figure No.

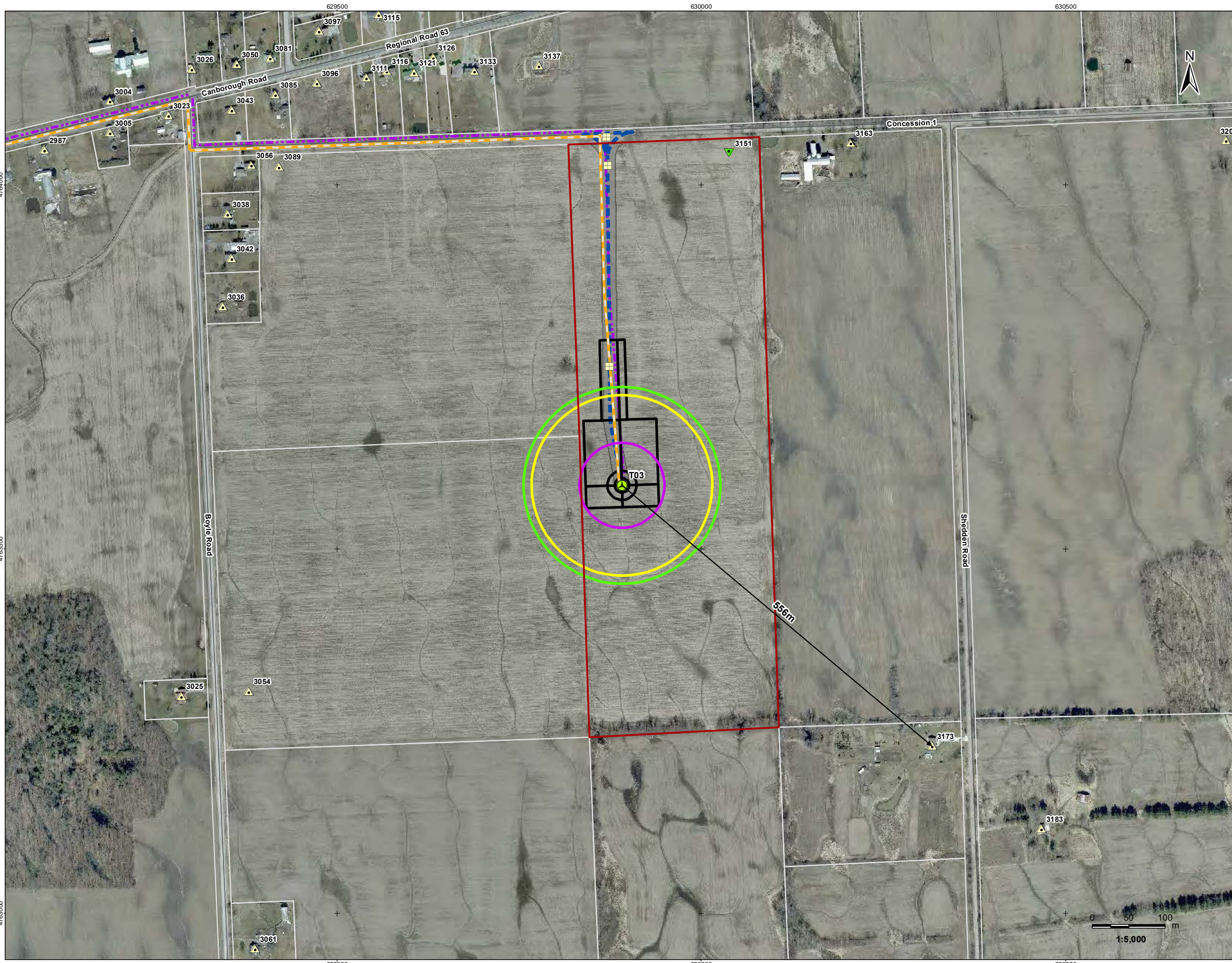
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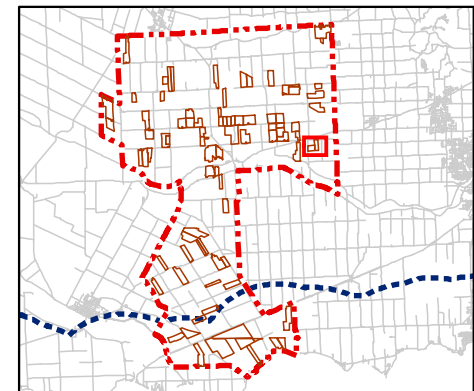


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 Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
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- Proposed Culvert
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- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



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Figure No.

1.3

Title

**Overview Maps for Property  
Line Setback Assessment –  
T03**



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### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
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- Turbine 58.6m Buffer (Blade + 10m)
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- Participating Receptor
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- Road

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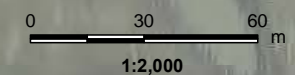
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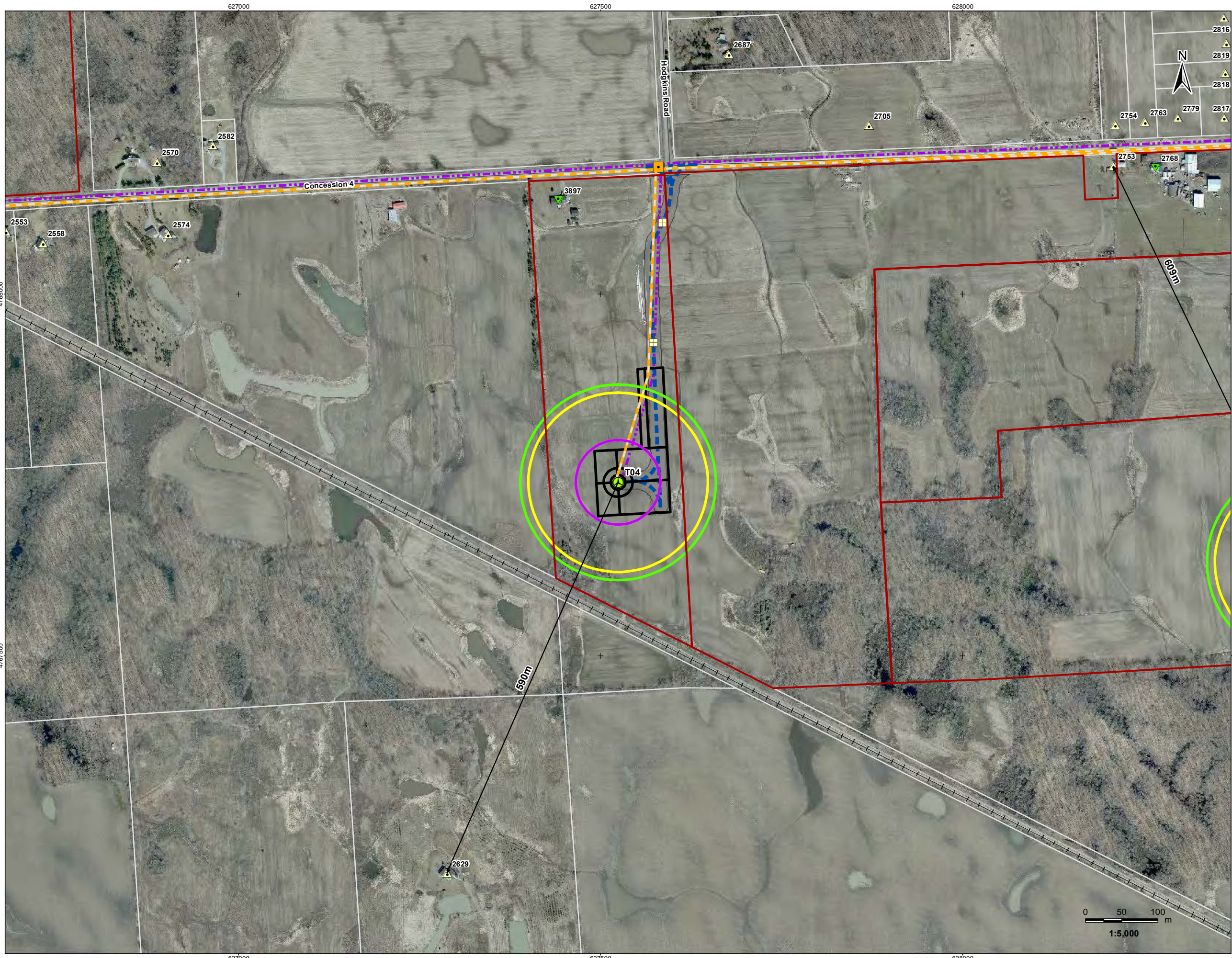
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**Inset Maps for  
Property Line Setback – T03**



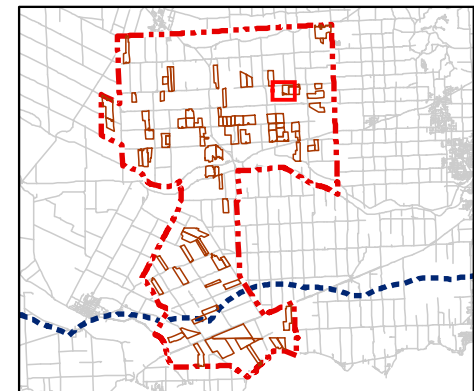


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Revised: 2013-03-01 By: bcooper



### Legend

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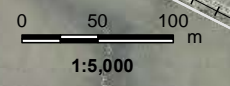
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Figure No.  
1.4

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T04**

















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Revised: 2013-03-01 By: bcowper



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Figure No.

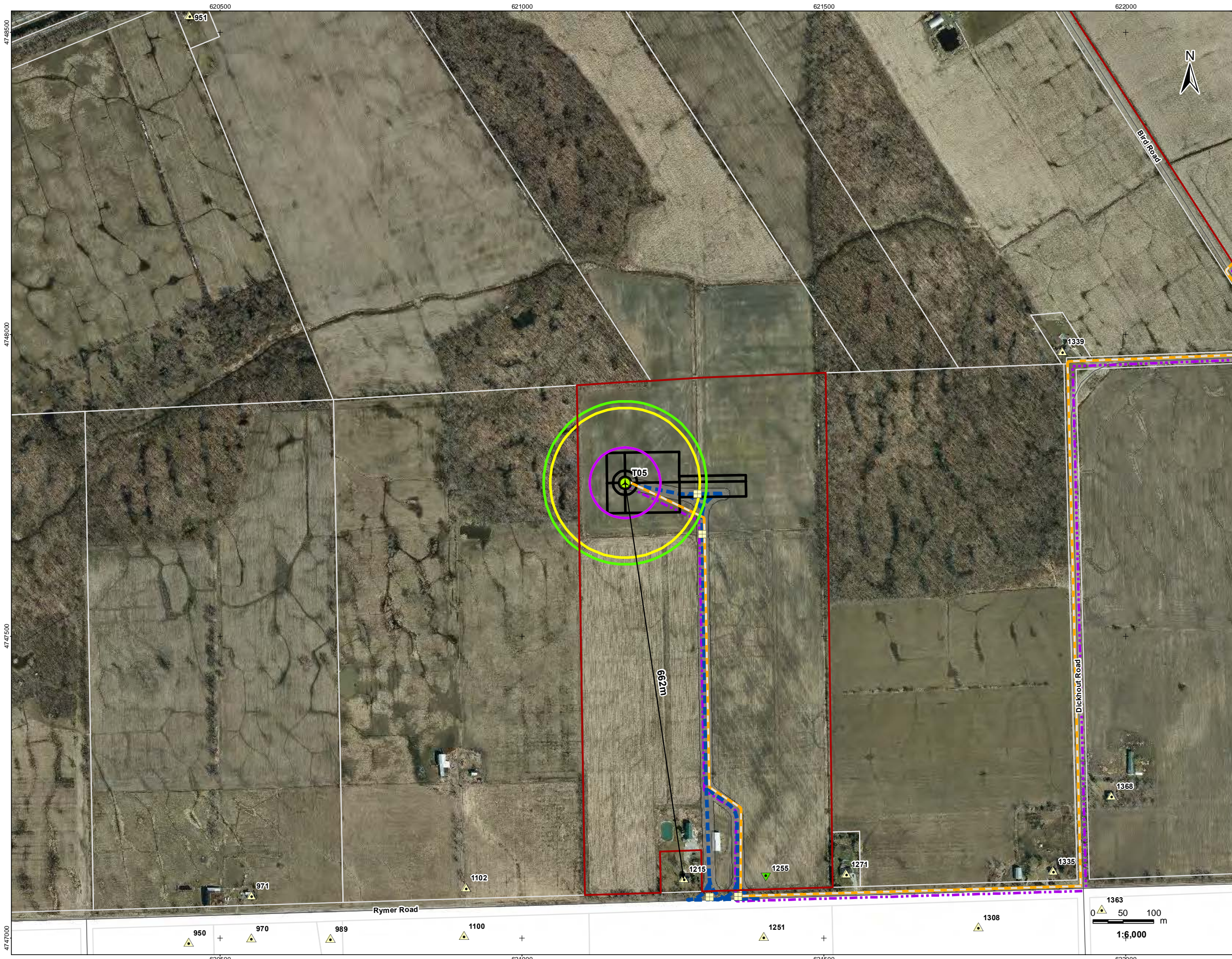
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**Inset Maps for  
Property Line Setback – T04**

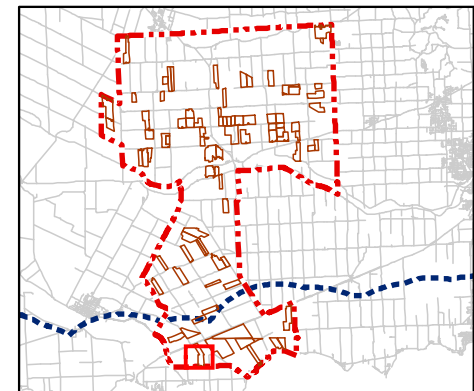


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 Revised: 2013-03-01 By: bcowper



**Legend**

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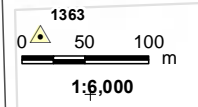
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Niagara Region Wind Farm

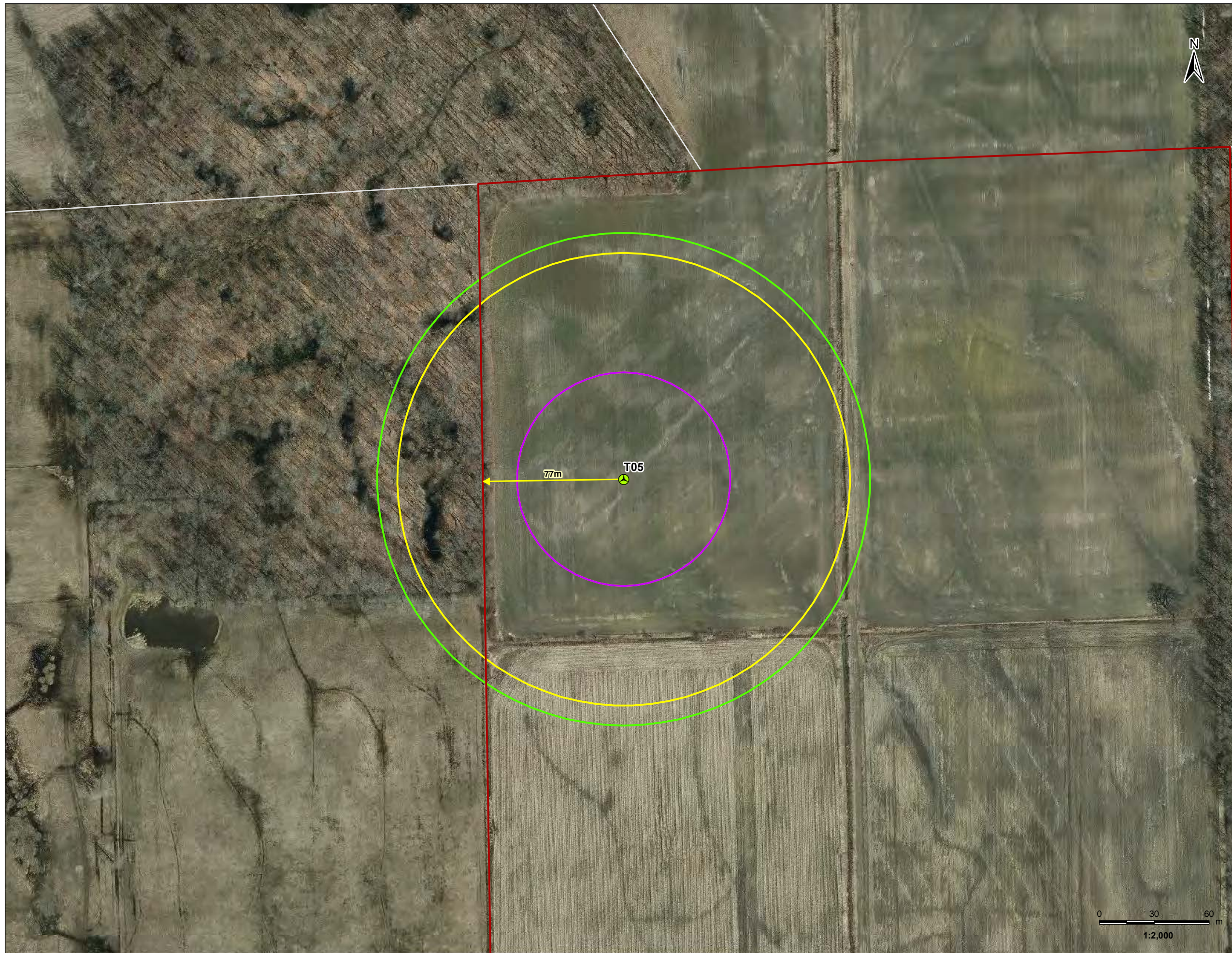
Figure No.  
1.5

Title  
**Overview Maps for Property Line Setback Assessment – T05**

















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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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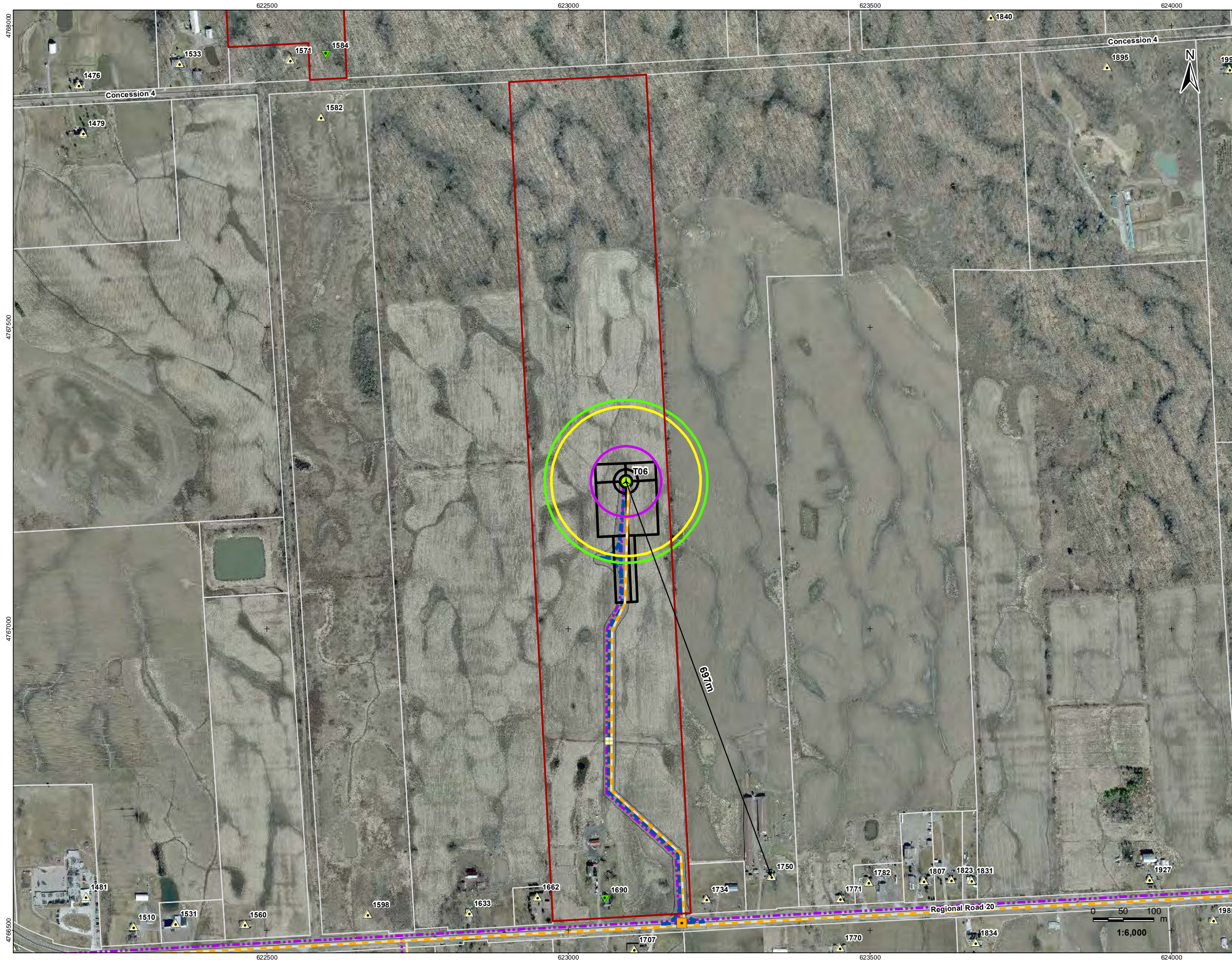
Figure No.

1.5a

Title

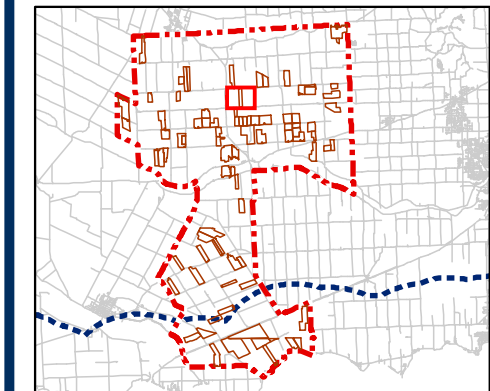
**Inset Maps for  
Property Line Setback – T05**





### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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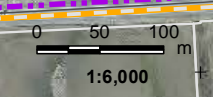
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Figure No.  
1.6

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T06**

















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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

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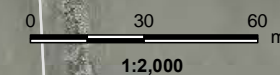
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Figure No.

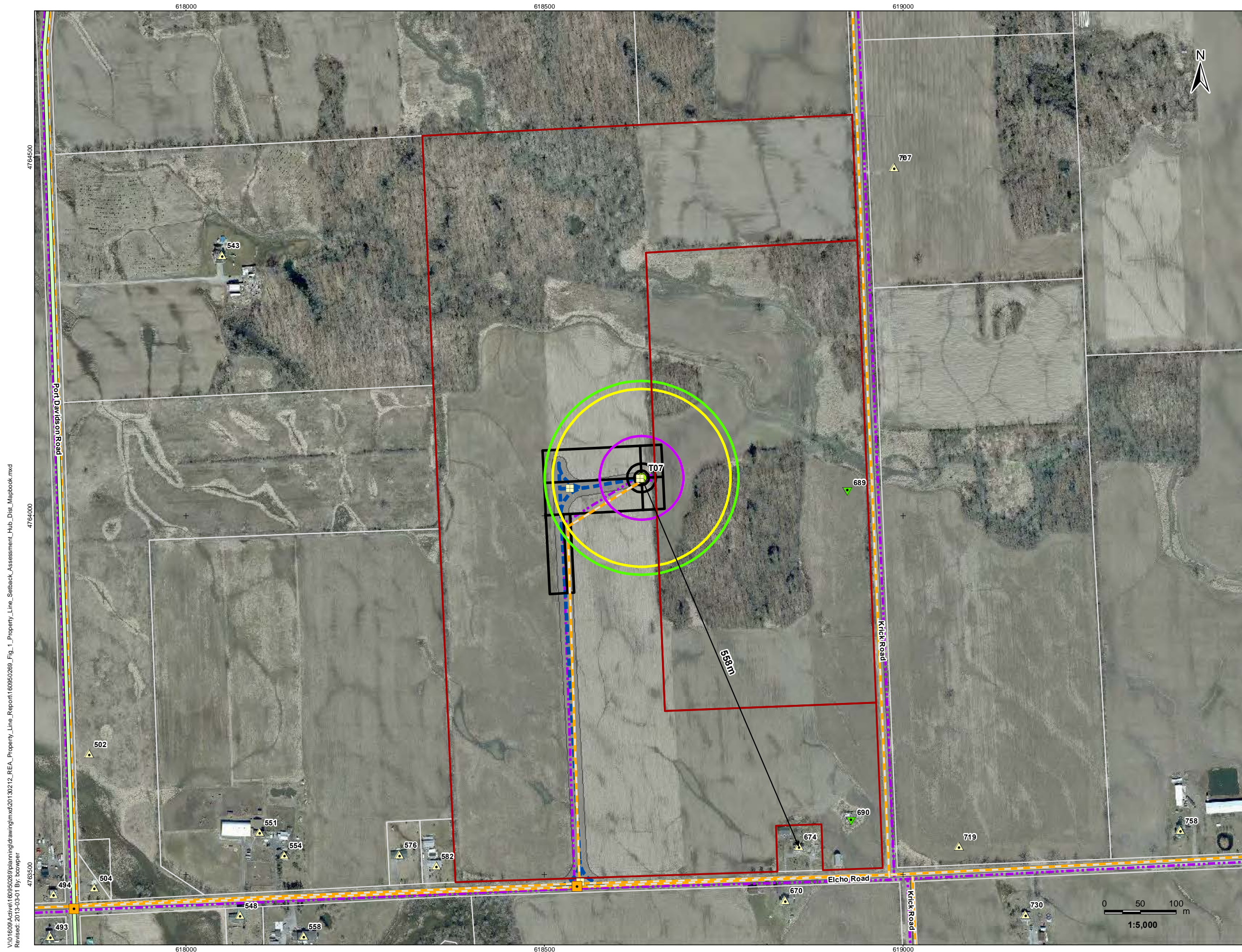
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Title

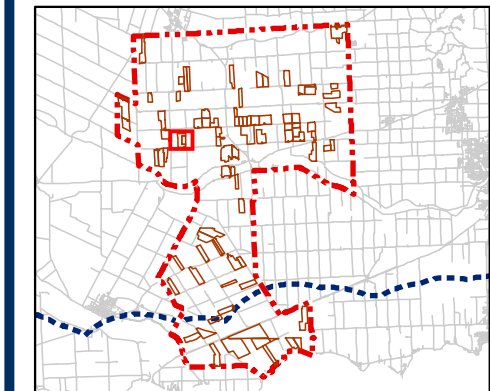
**Inset Maps for  
Property Line Setback – T06**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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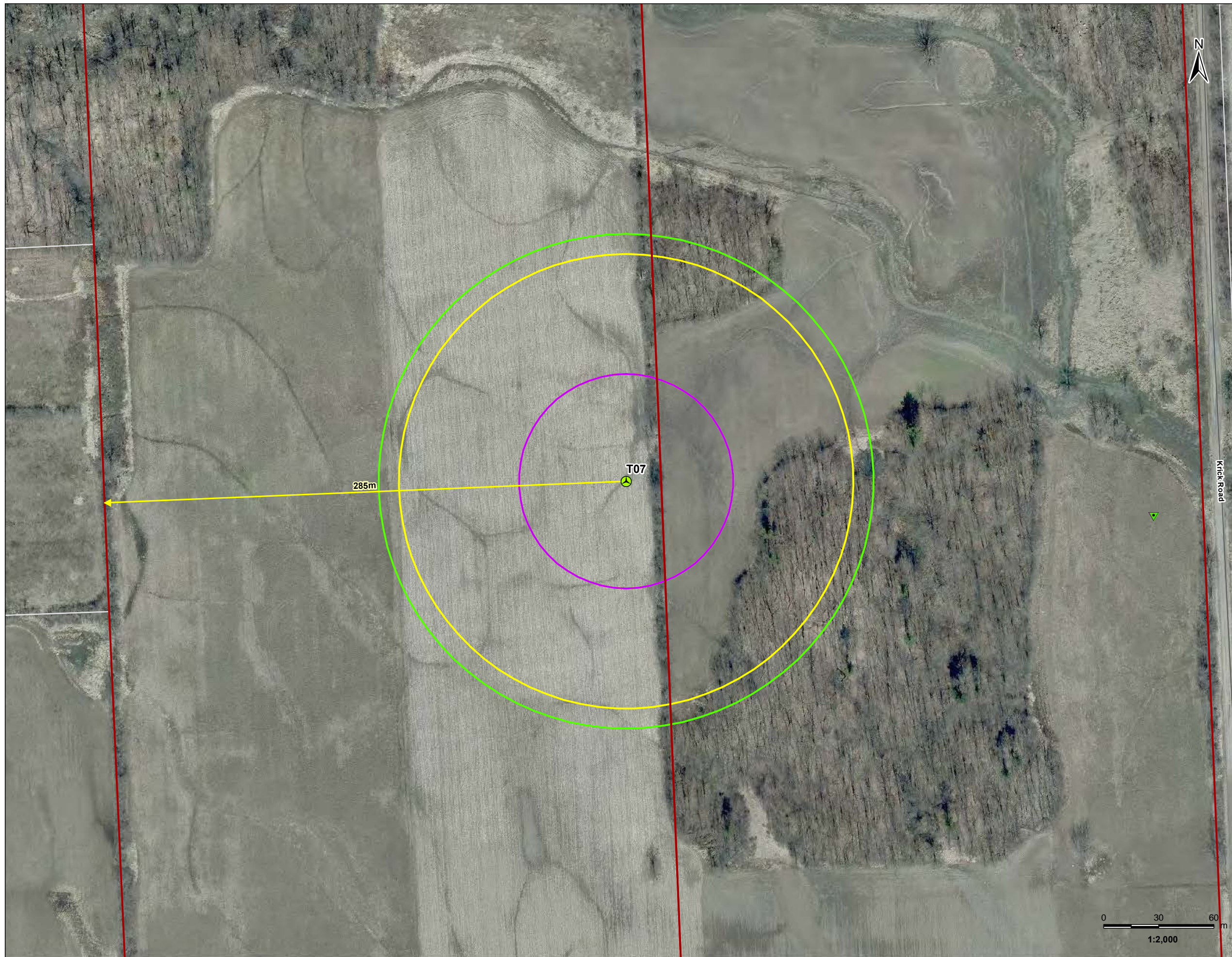
Figure No.  
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Title  
**Overview Maps for Property Line Setback Assessment – T07**

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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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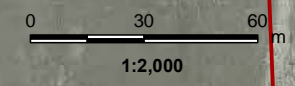
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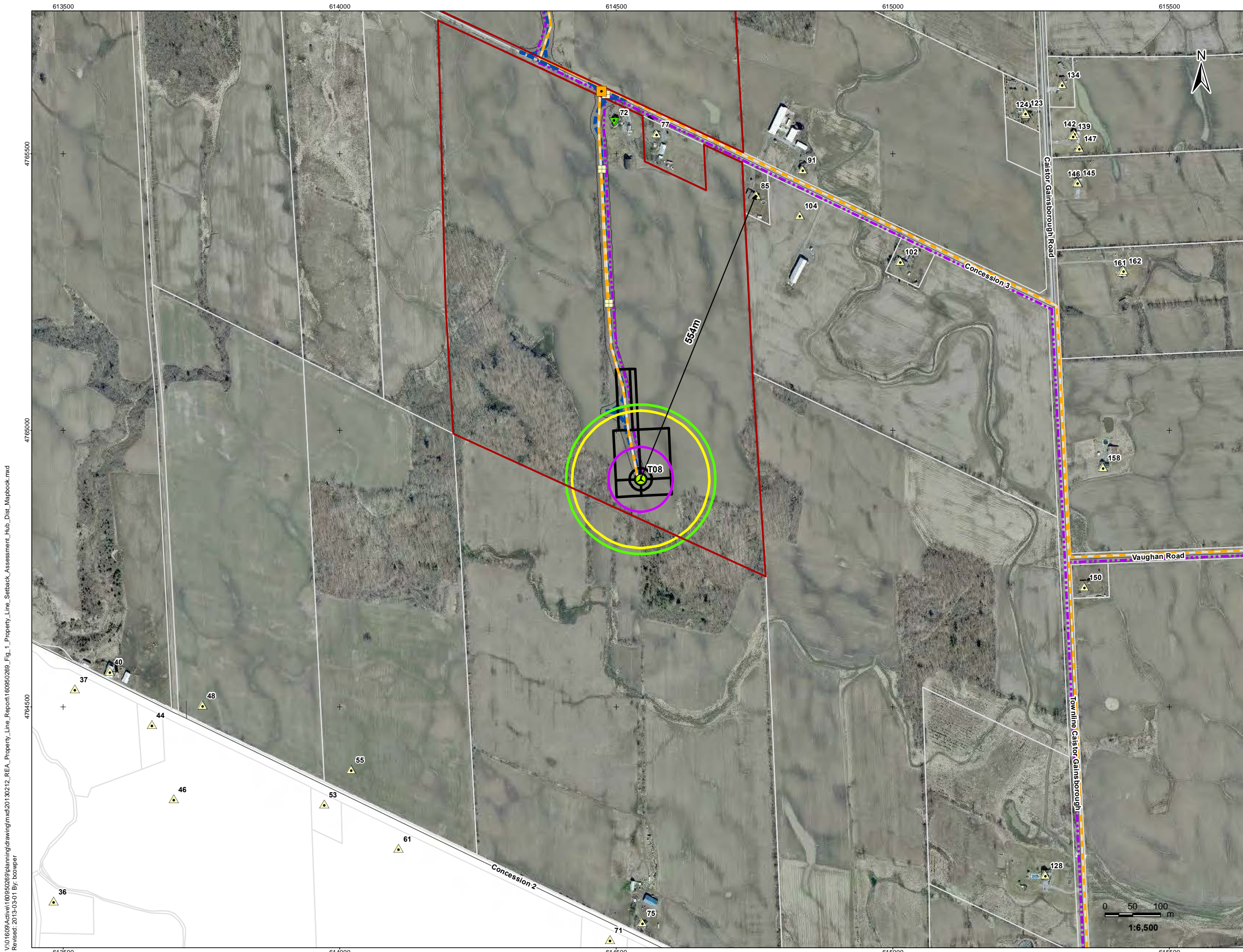
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Niagara Region Wind Farm

Figure No.  
**1.7a**

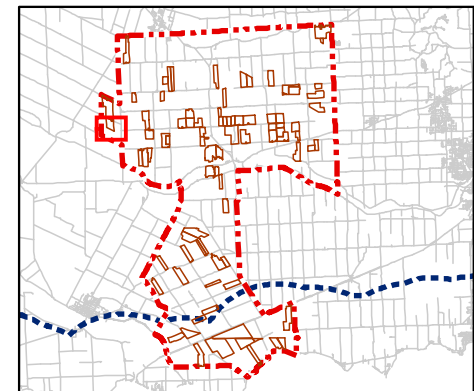
Title  
**Inset Maps for  
Property Line Setback – T07**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▲ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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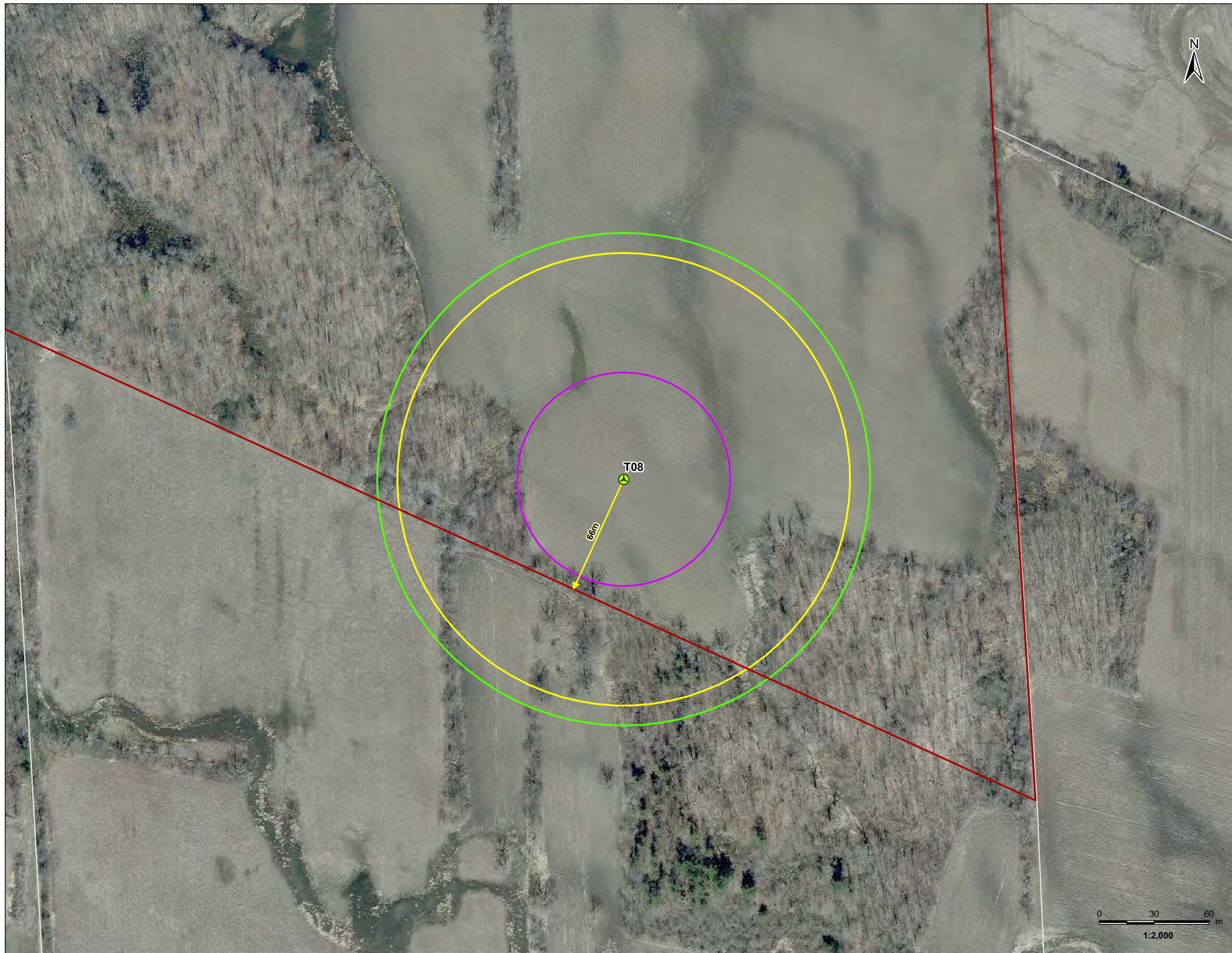
Figure No.  
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Title  
**Overview Maps for Property  
Line Setback Assessment –  
T08**













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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

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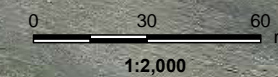
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

1.8a

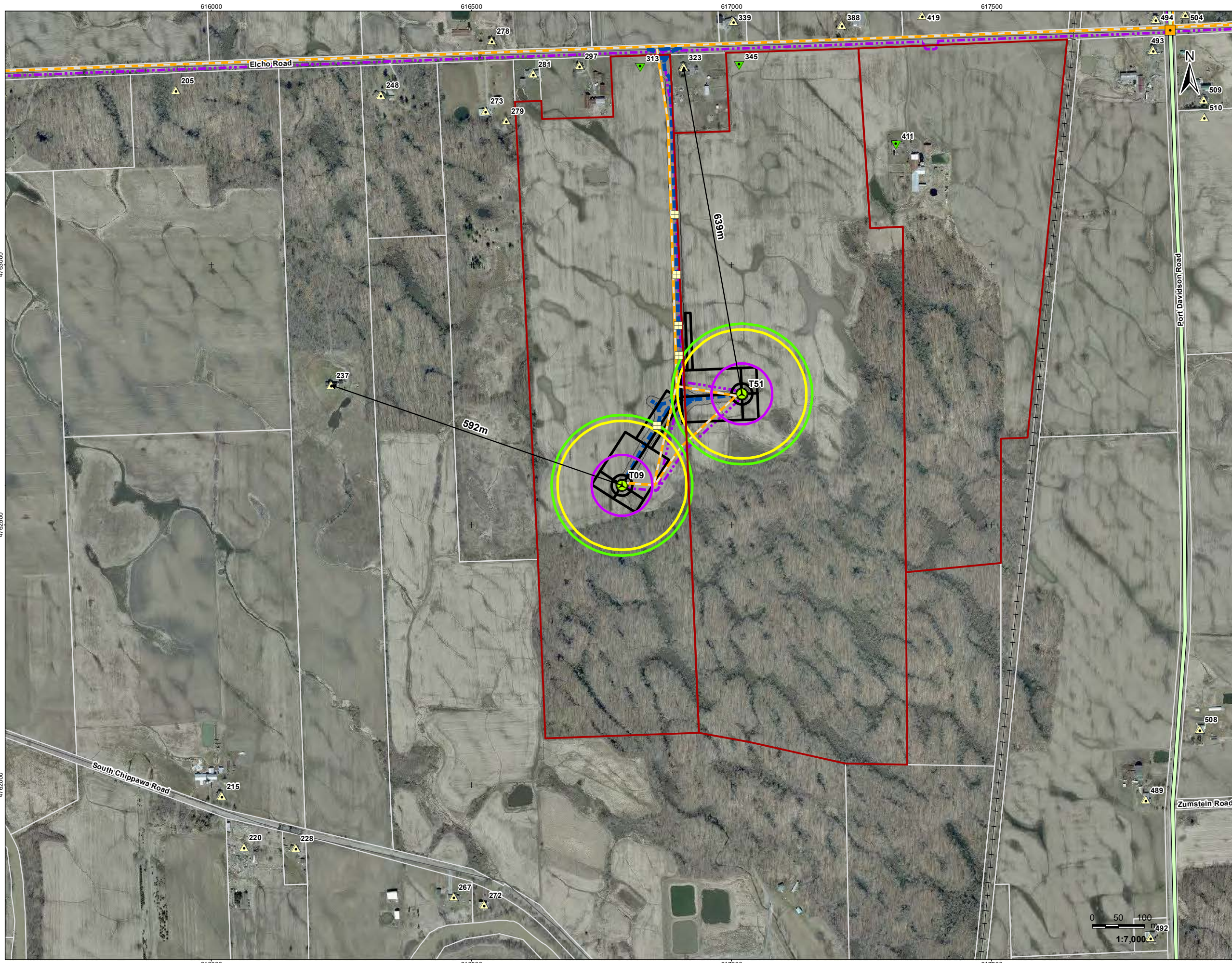
Title

**Inset Maps for  
Property Line Setback – T08**



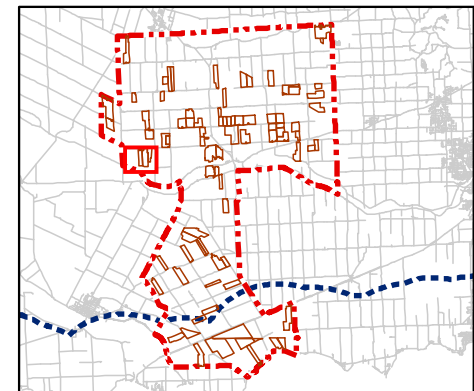


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 Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



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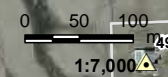
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

1.9

Title













**Overview Maps for Property  
Line Setback Assessment –  
T09**







### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

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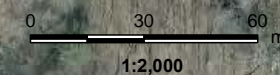
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

1.9a

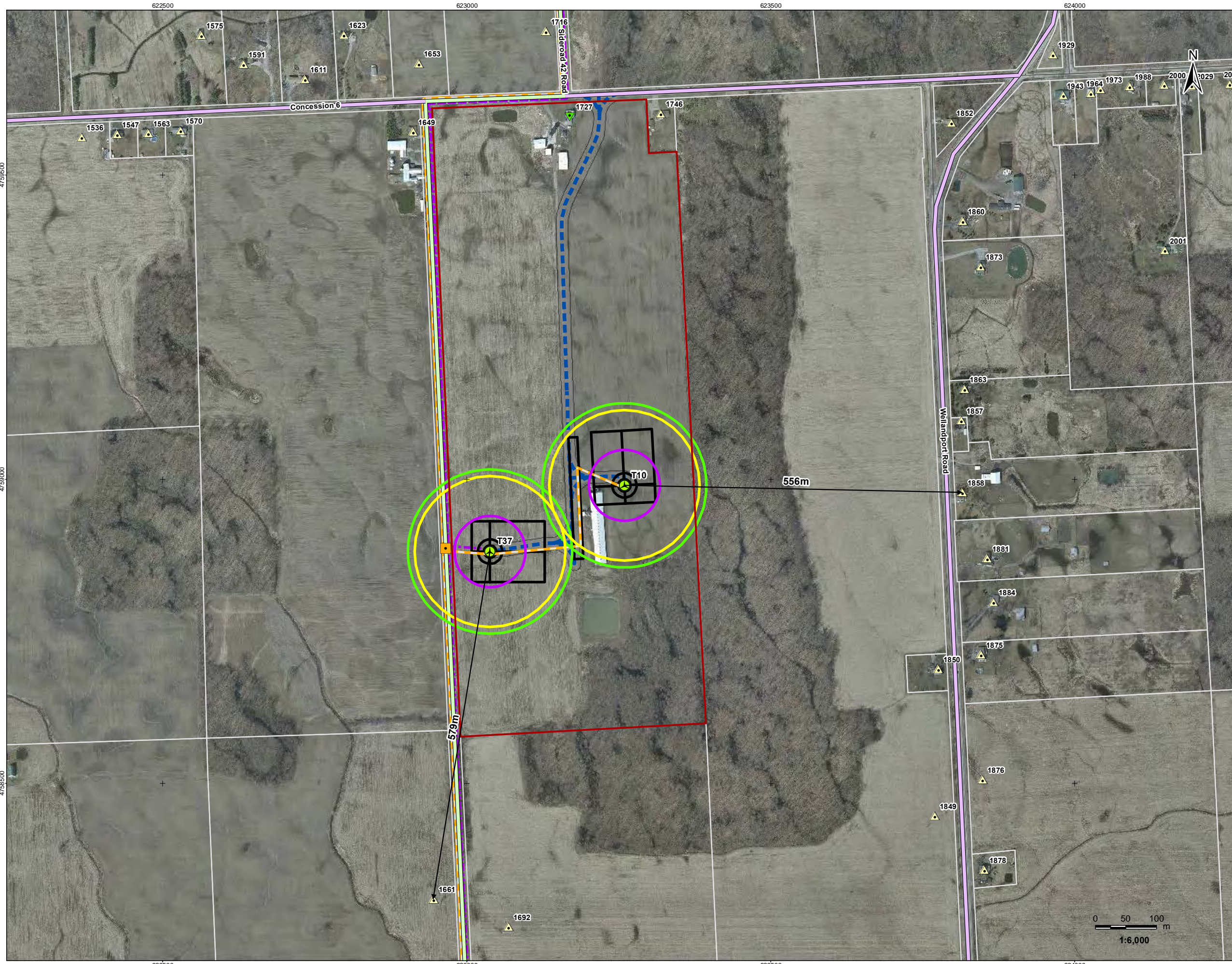
Title

**Inset Maps for  
Property Line Setback – T09**





















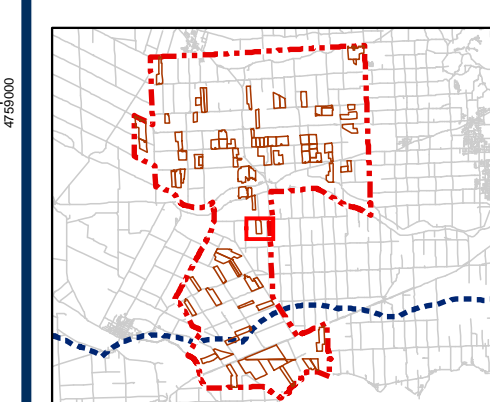


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 Revised: 2013-03-01 By: bcowper



**Legend**

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Junction Box
-  Proposed Culvert
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Preferred Transmission Line Route
-  Alternate Transmission Route
-  Potential Access Road
-  Collector Lines - Underground or Overhead
-  Fibre Optic Line
-  Temporary Laydown Area
-  Access Road 20m Construction Area



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Figure No.  
 1.10

Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T10**

















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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

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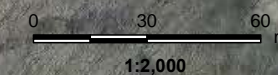
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

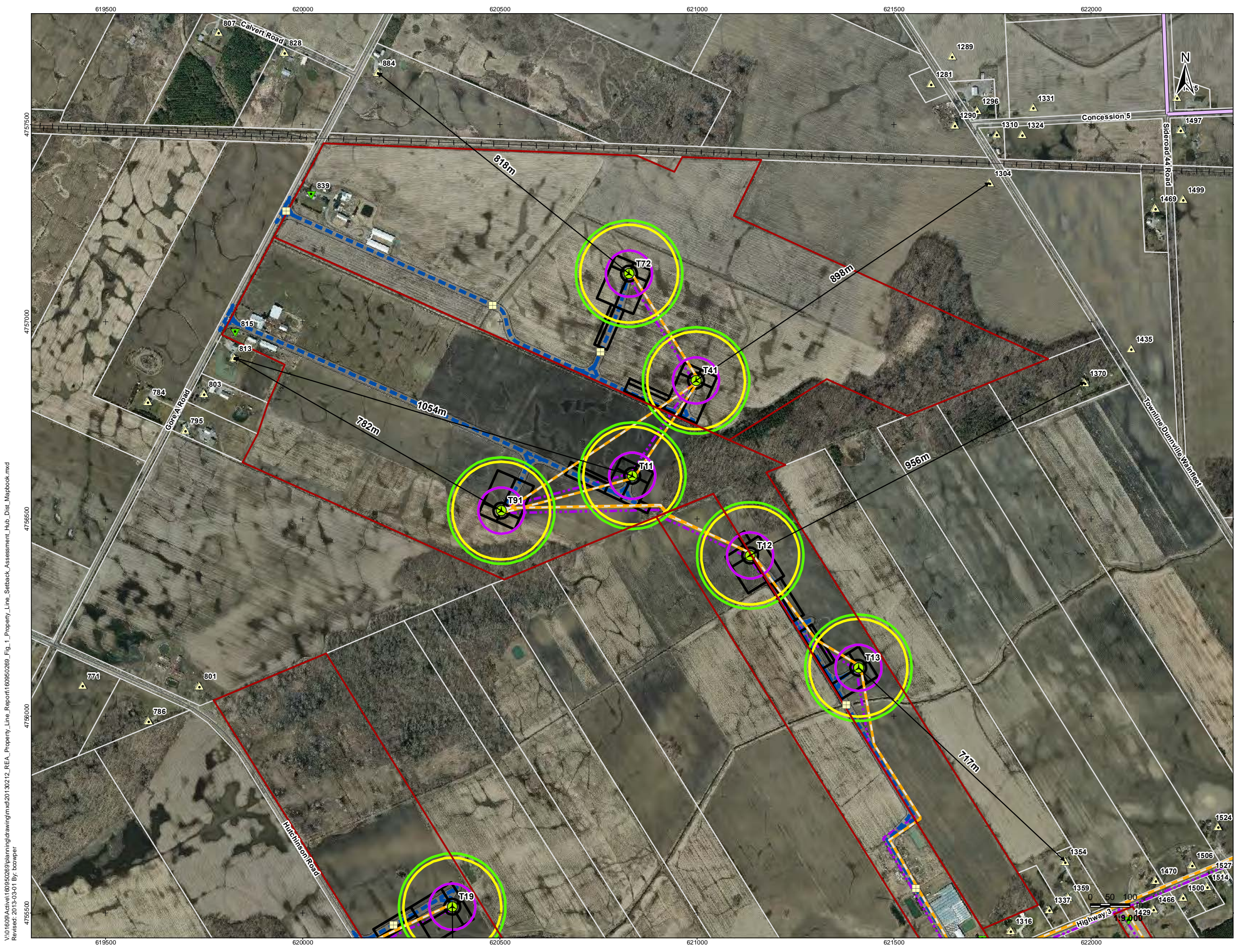
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Title

**Inset Maps for  
Property Line Setback – T10**

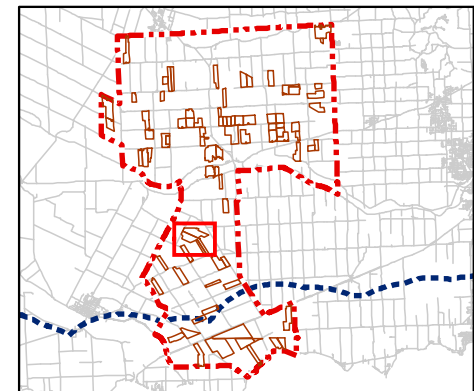






### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



- ### Notes
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Figure No.  
1.11

---

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T11**

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Revised: 2013-03-01 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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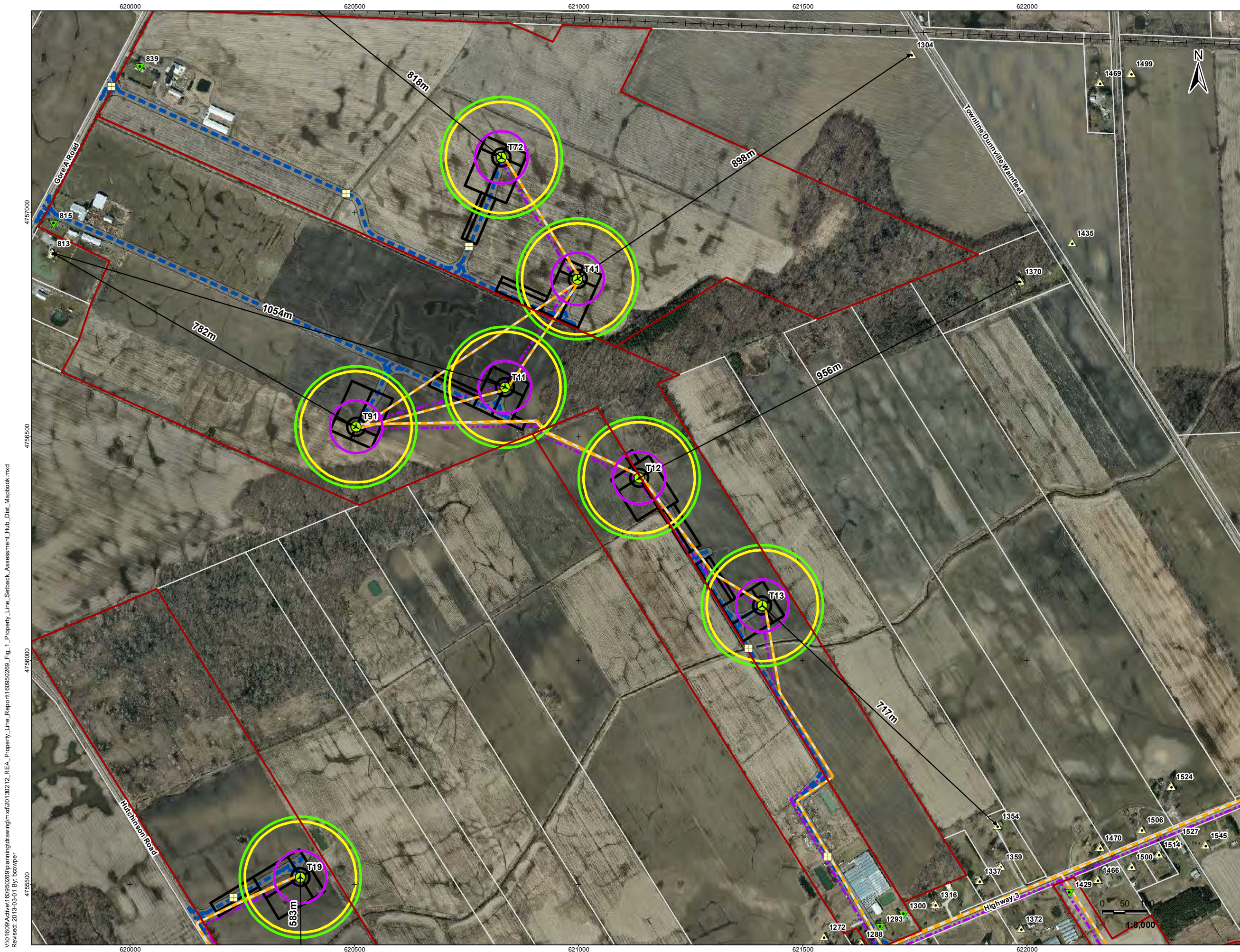
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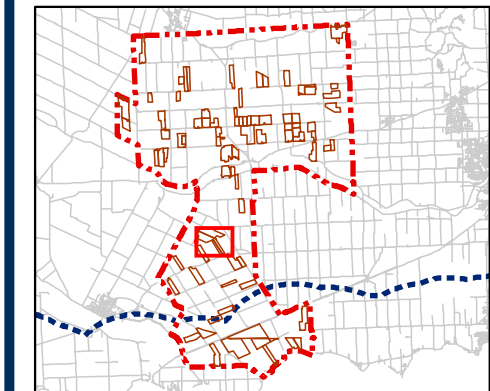
Title

**Inset Maps for  
Property Line Setback – T11**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - - - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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Figure No.  
1.12

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T12**













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### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.12a

Title

**Inset Maps for  
Property Line Setback – T12**



















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### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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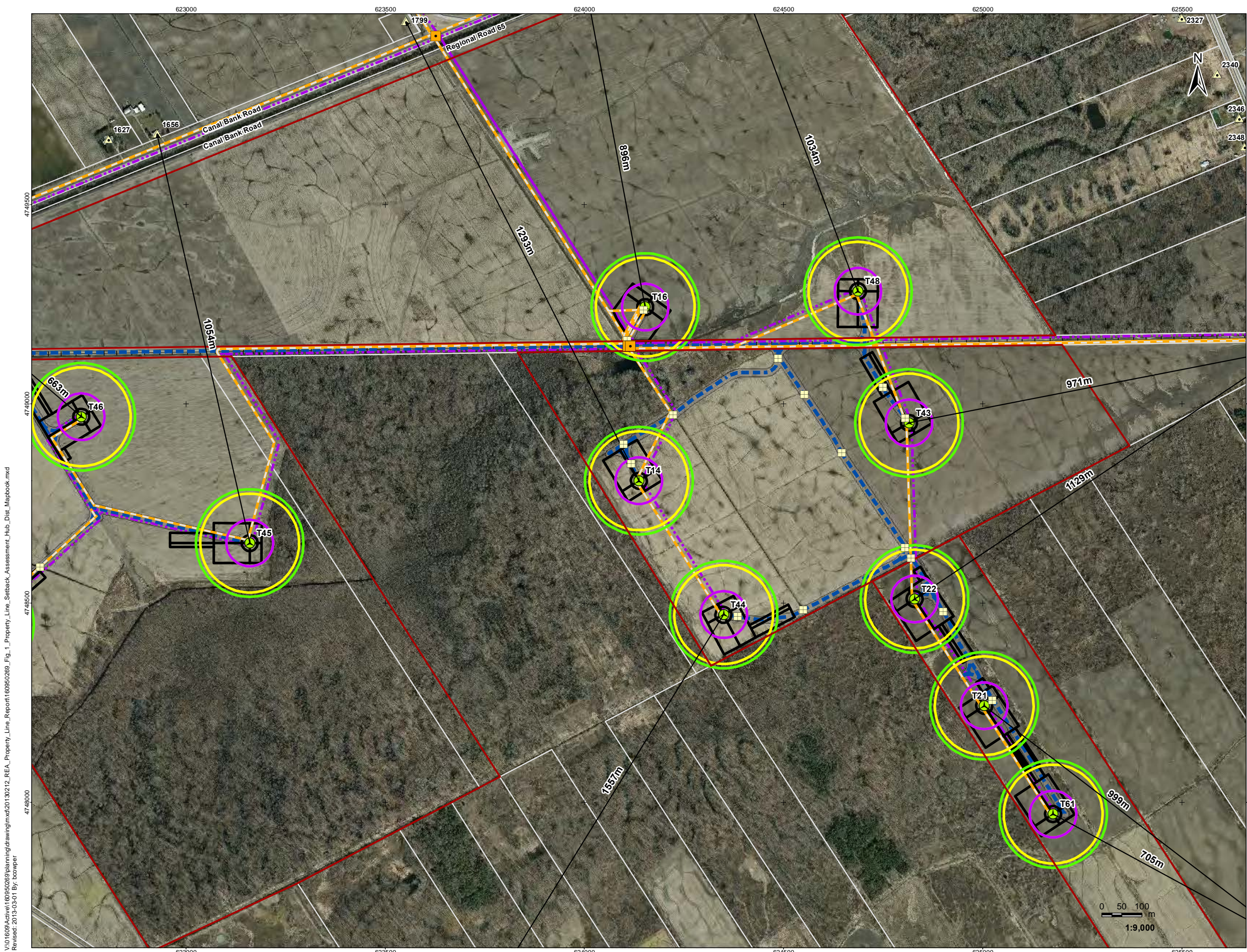
Figure No.

1.13a

Title

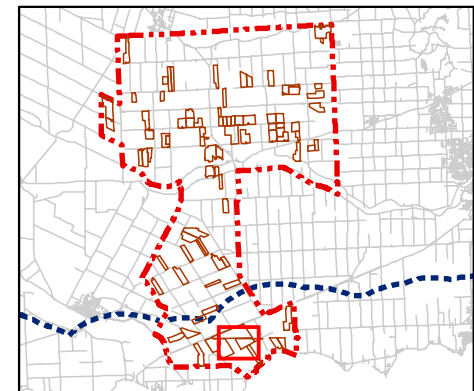
**Inset Maps for  
Property Line Setback – T13**





### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



- ### Notes
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Figure No.  
1.14

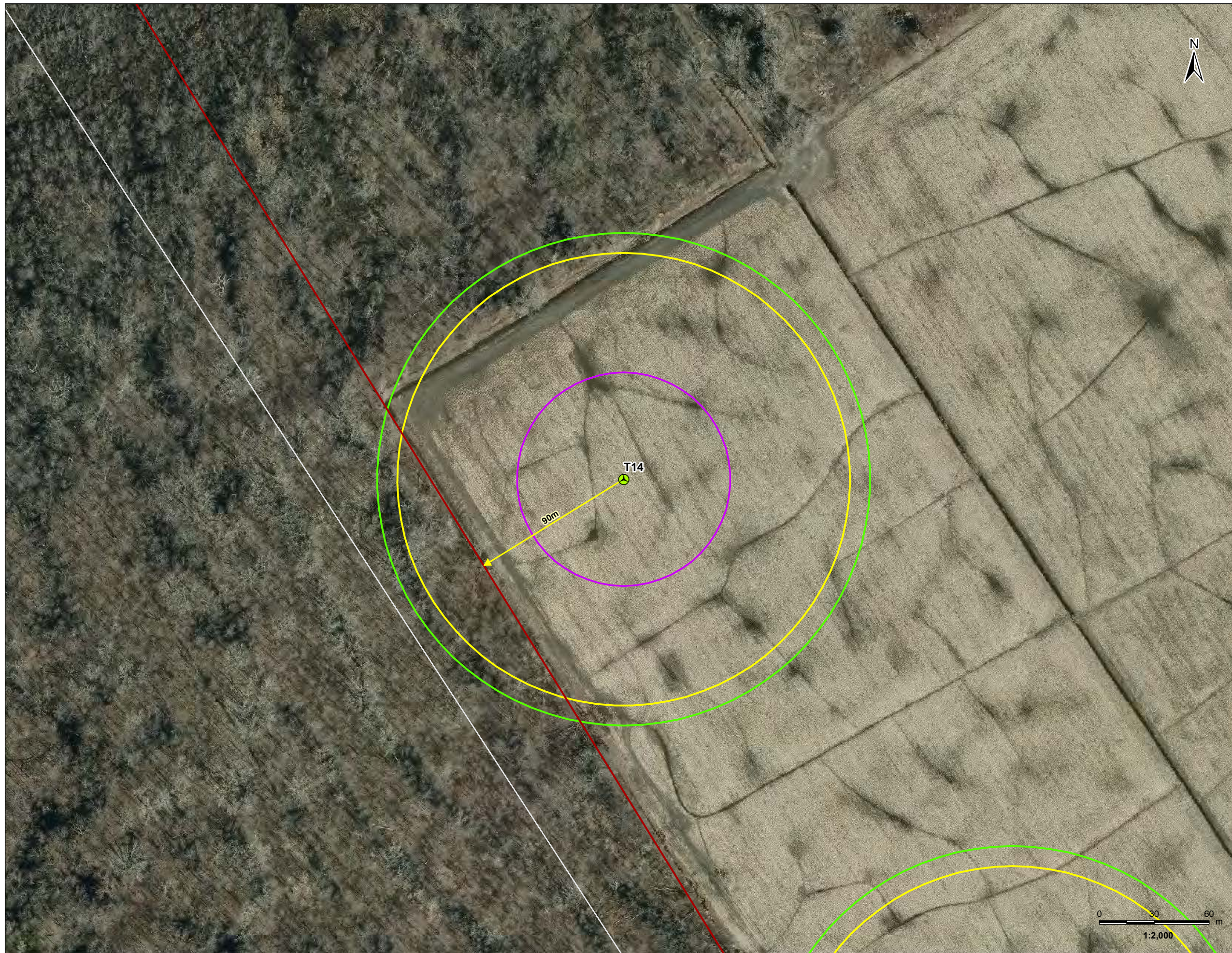
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Title  
**Overview Maps for Property  
Line Setback Assessment –  
T14**

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Revised: 2013-03-01 By: bcooper



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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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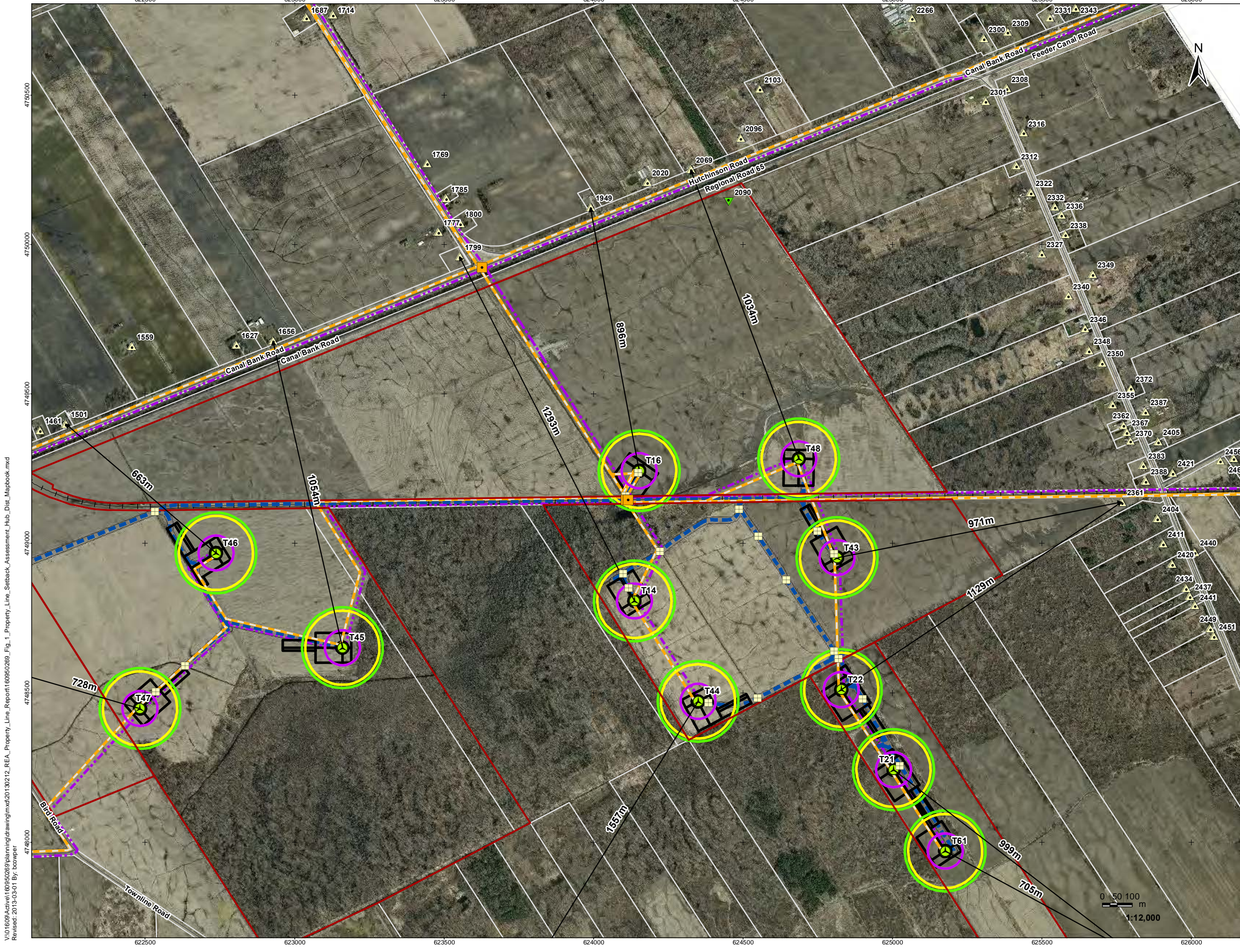
Figure No.

1.14a

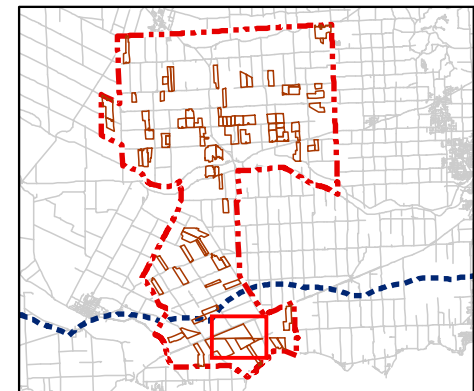
Title

**Inset Maps for  
Property Line Setback – T14**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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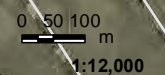
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Niagara Region Wind Farm

Figure No.  
1.15

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T16**

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Revised: 2013-03-01 By: bcowper





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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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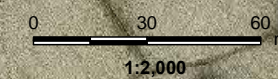
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Niagara Region Wind Farm

Figure No.

1.15a

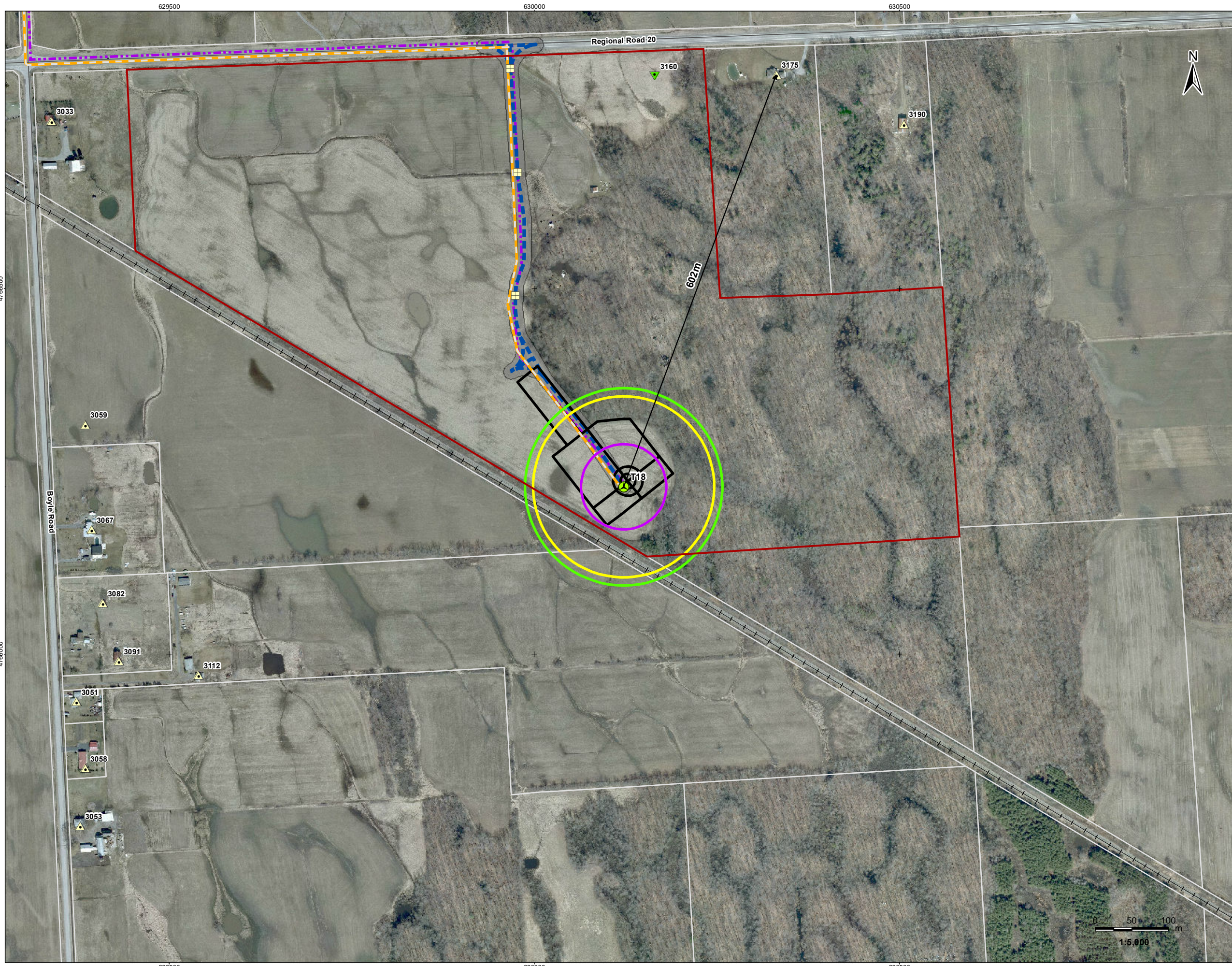
Title

**Inset Maps for  
Property Line Setback – T16**



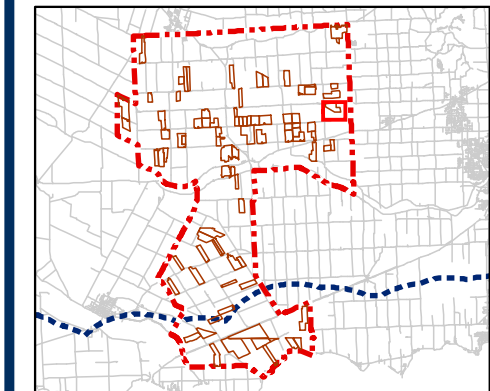


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Revised: 2013-04-17 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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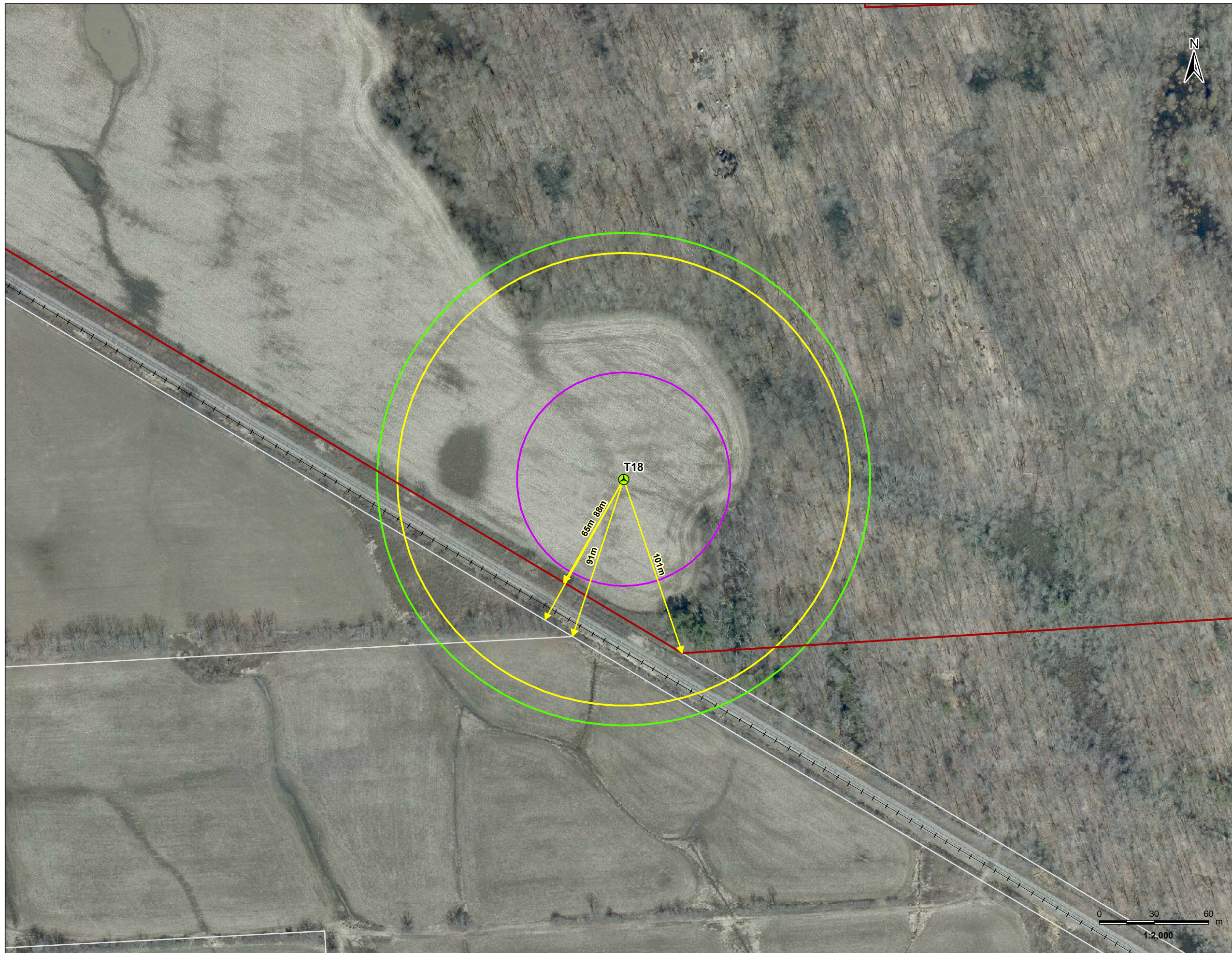
Client/Project  
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Niagara Region Wind Farm

Figure No.  
**1.16**

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T18**



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Revised: 2013-04-17 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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Figure No.

1.16a

Title

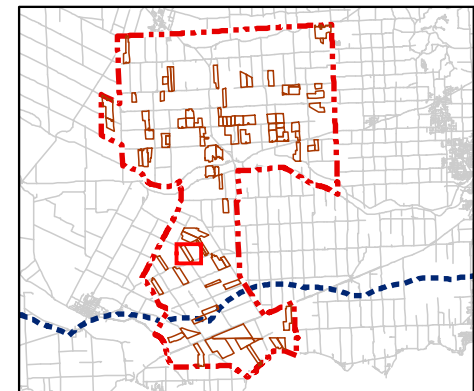
**Inset Maps for  
Property Line Setback – T18**





**Legend**

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



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Figure No.  
1.17

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T19**

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Revised: 2013-03-01 By: bcowper

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4756000

4755500

4755000













619500 620000 620500 621000



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.17a

Title

**Inset Maps for  
Property Line Setback – T19**

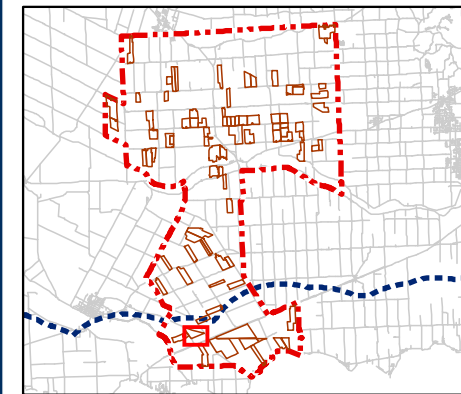


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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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Figure No.  
1.18

Title













**Overview Maps for Property  
Line Setback Assessment –  
T20**



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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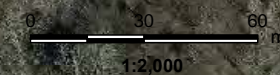
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

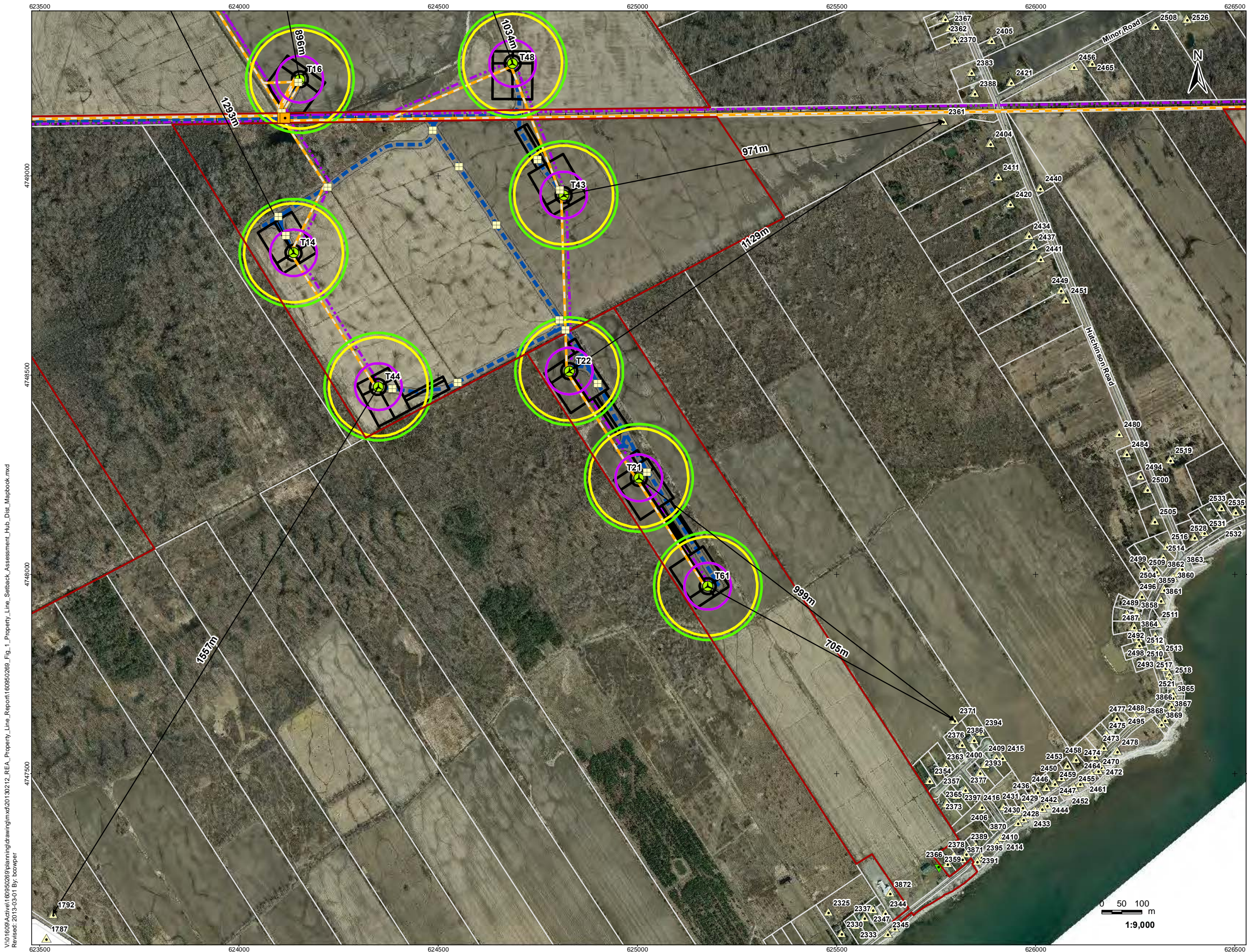
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Title

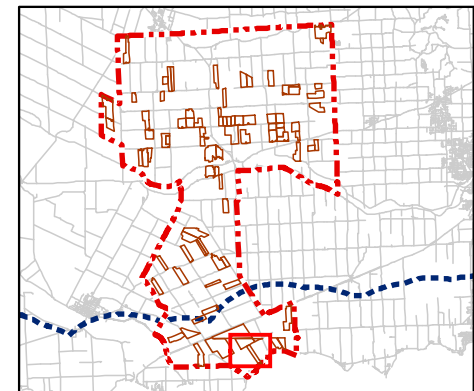
**Inset Maps for  
Property Line Setback – T20**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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**Niagara Region Wind Farm**

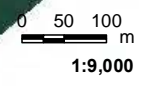
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Figure No.  
**1.19**

---

Title  
**Overview Maps for Property Line Setback Assessment – T21**

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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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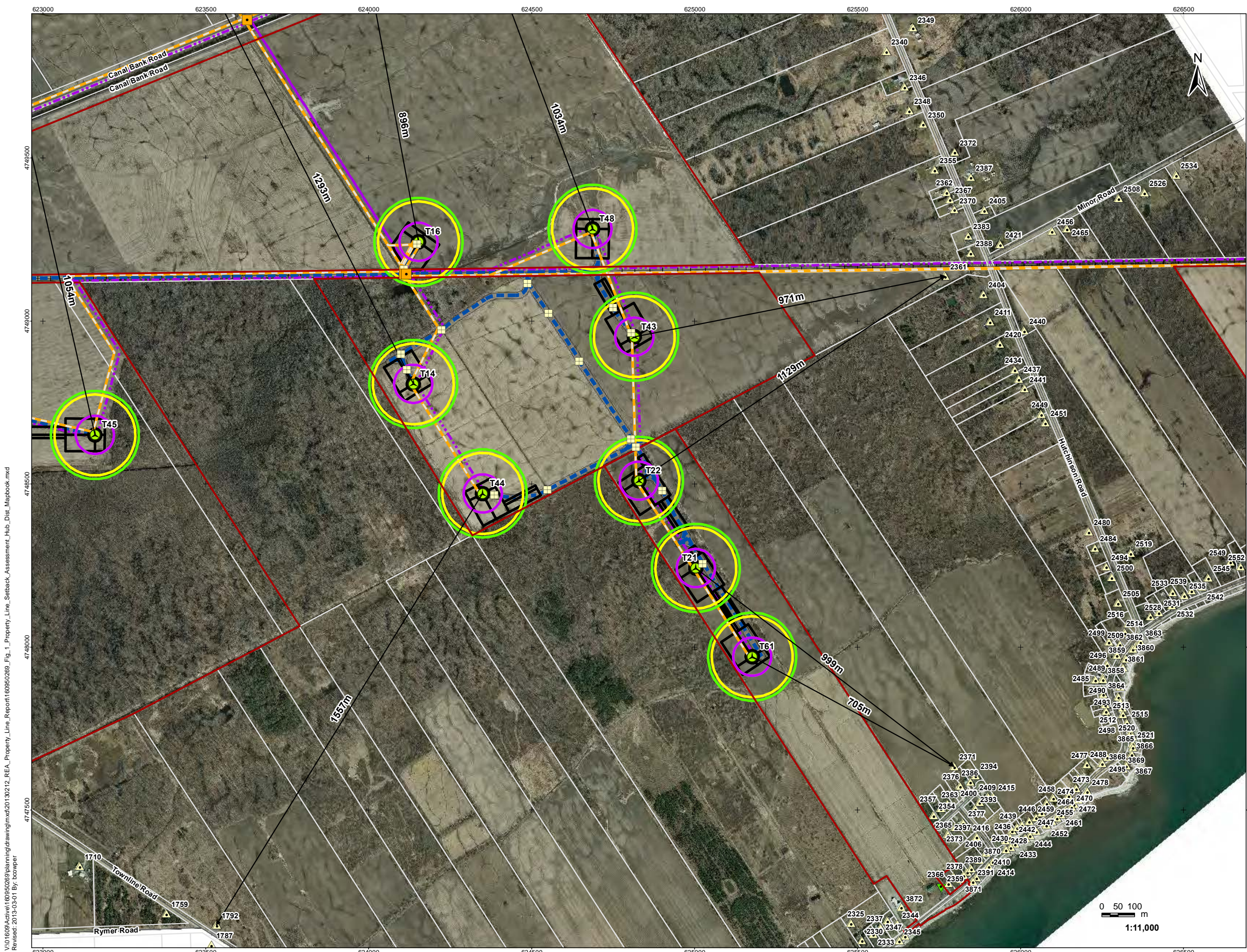
Figure No.

1.19a

Title

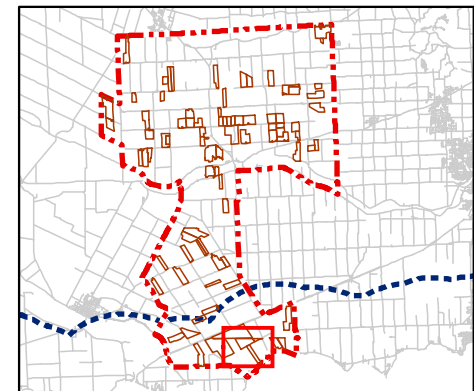
**Inset Maps for  
Property Line Setback – T21**





### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



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Figure No.  
1.20

---

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T22**













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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.20a

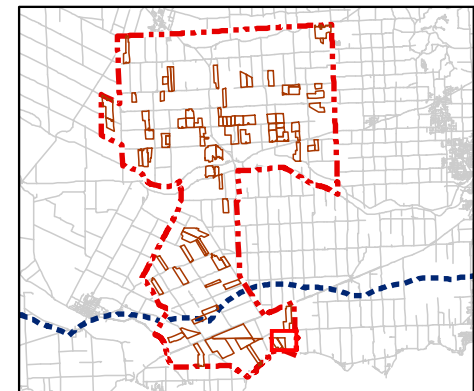
Title

**Inset Maps for  
Property Line Setback – T22**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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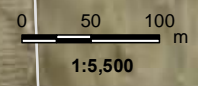


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Figure No.  
1.21

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T23**













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Revised: 2013-03-01 By: bcooper







### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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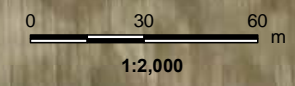
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Figure No.  
**1.21a**

Title  
**Inset Maps for  
Property Line Setback – T23**

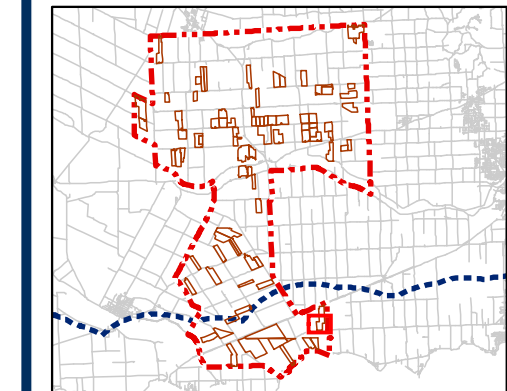




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- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - Non-Participating Receptor
  - Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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Figure No.  
 1.22













Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T24**



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

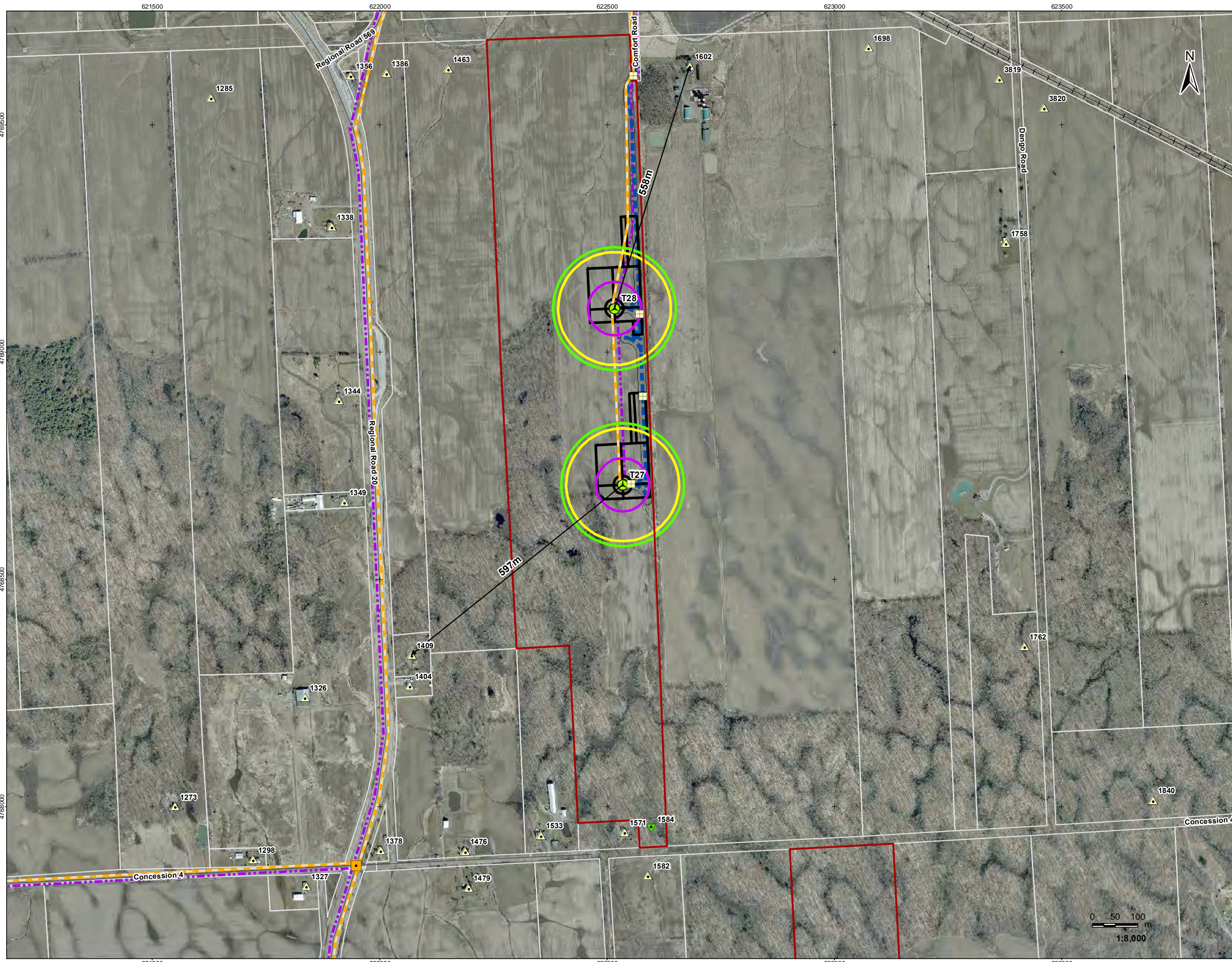
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Title

**Inset Maps for  
Property Line Setback – T24**

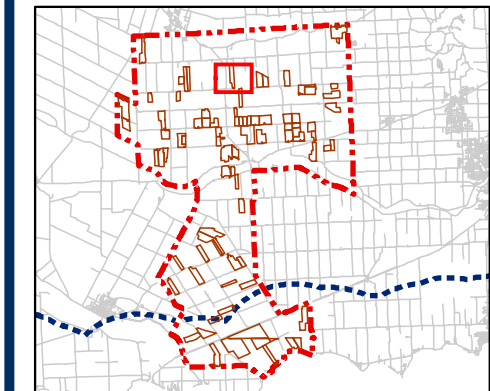


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 Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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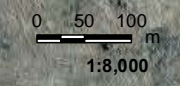


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Figure No.  
 1.23













Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T27**







### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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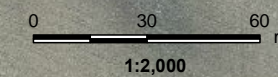
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

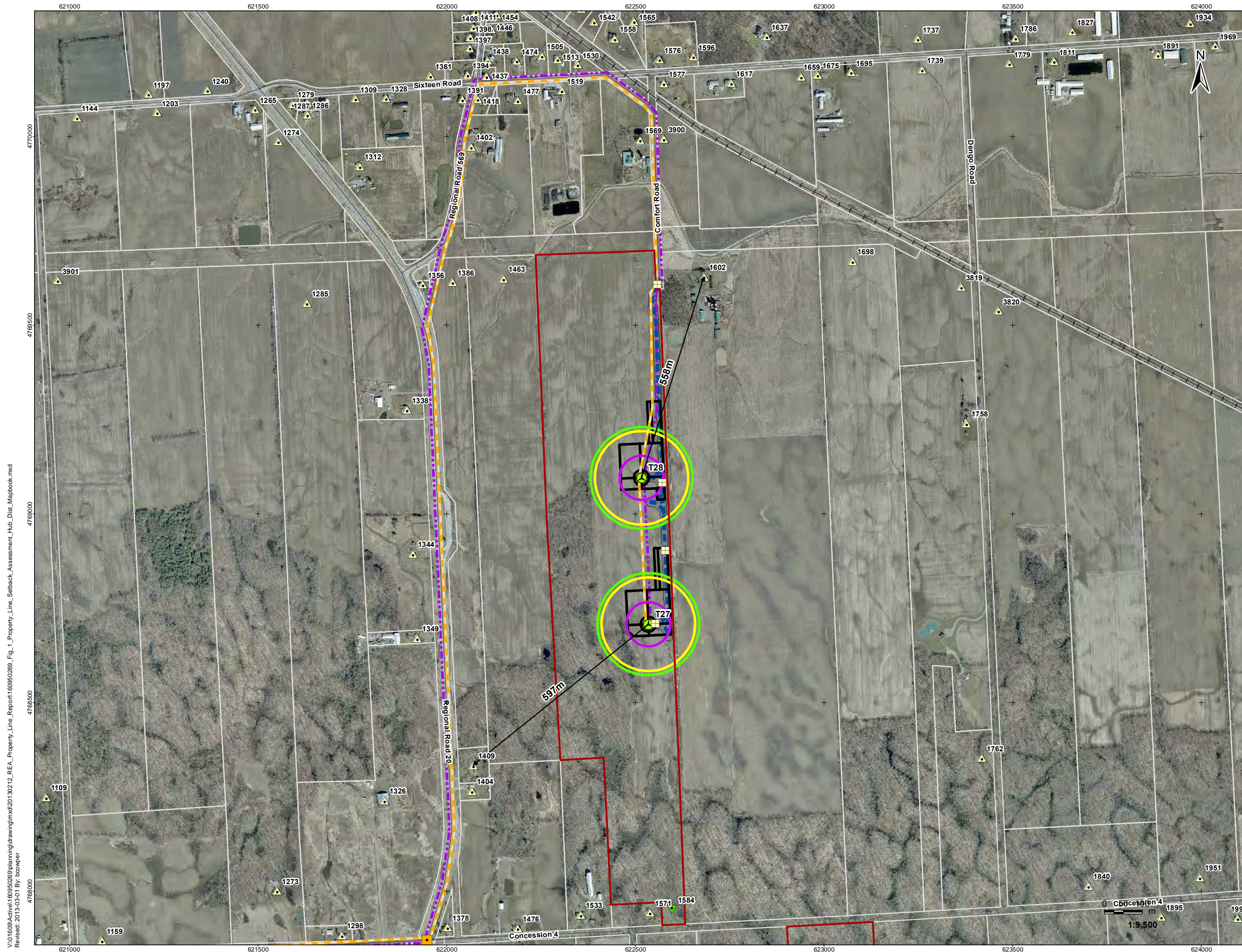
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Title

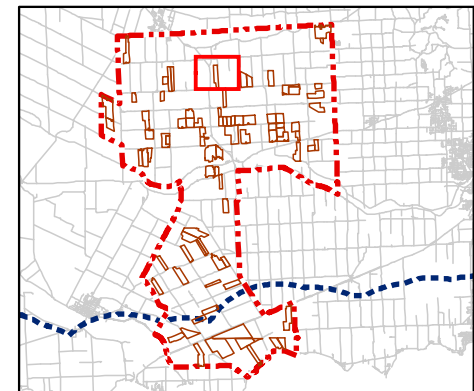
**Inset Maps for  
Property Line Setback – T27**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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Figure No.  
1.24

Title  
**Overview Maps for Property Line Setback Assessment – T28**













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Revised: 2013-03-01 By: bcowper







### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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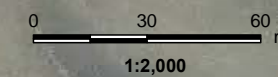
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Niagara Region Wind Farm

Figure No.

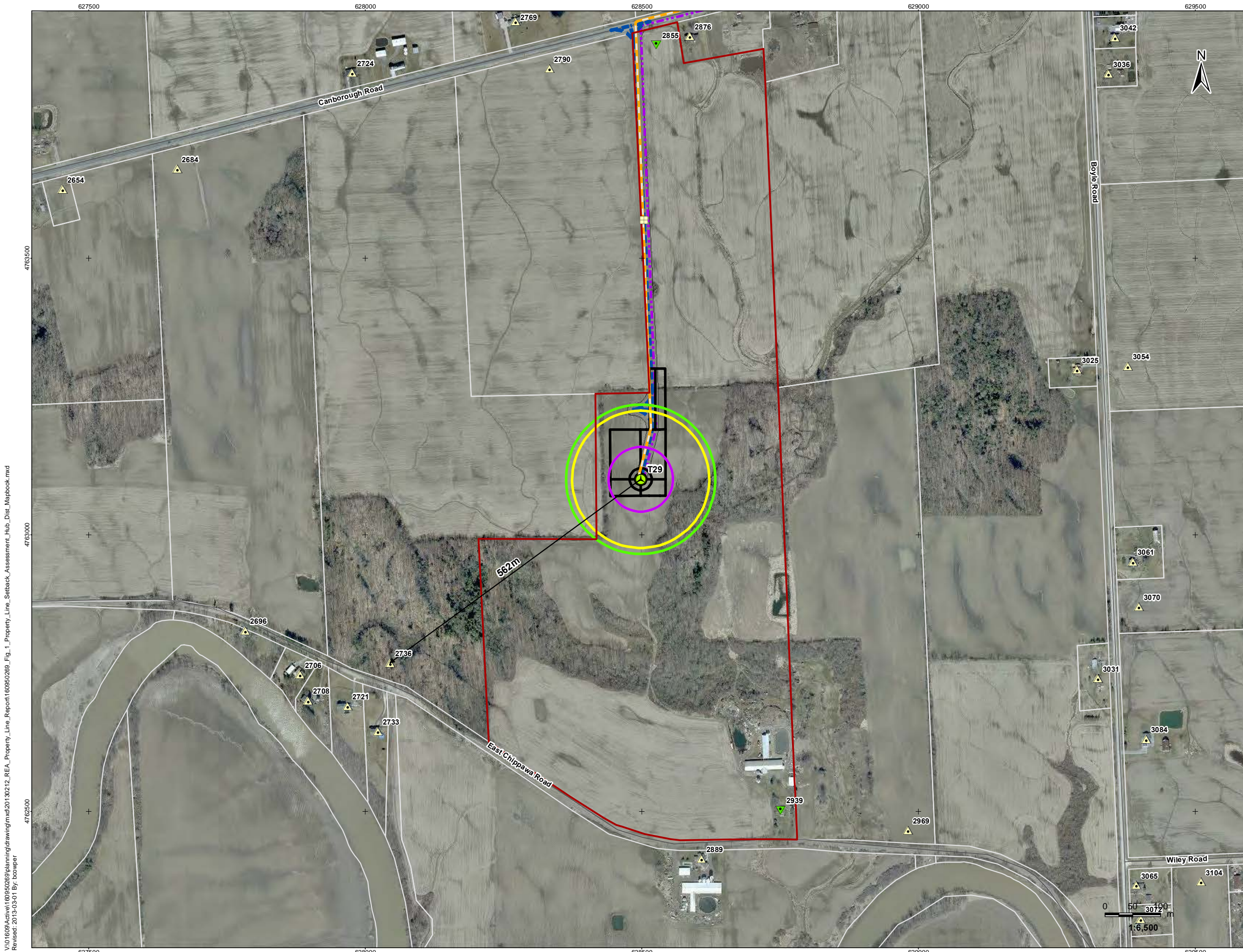
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Title

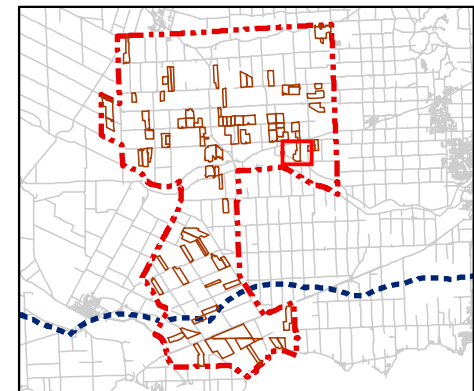
**Inset Maps for  
Property Line Setback – T28**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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Figure No.  
 1.25

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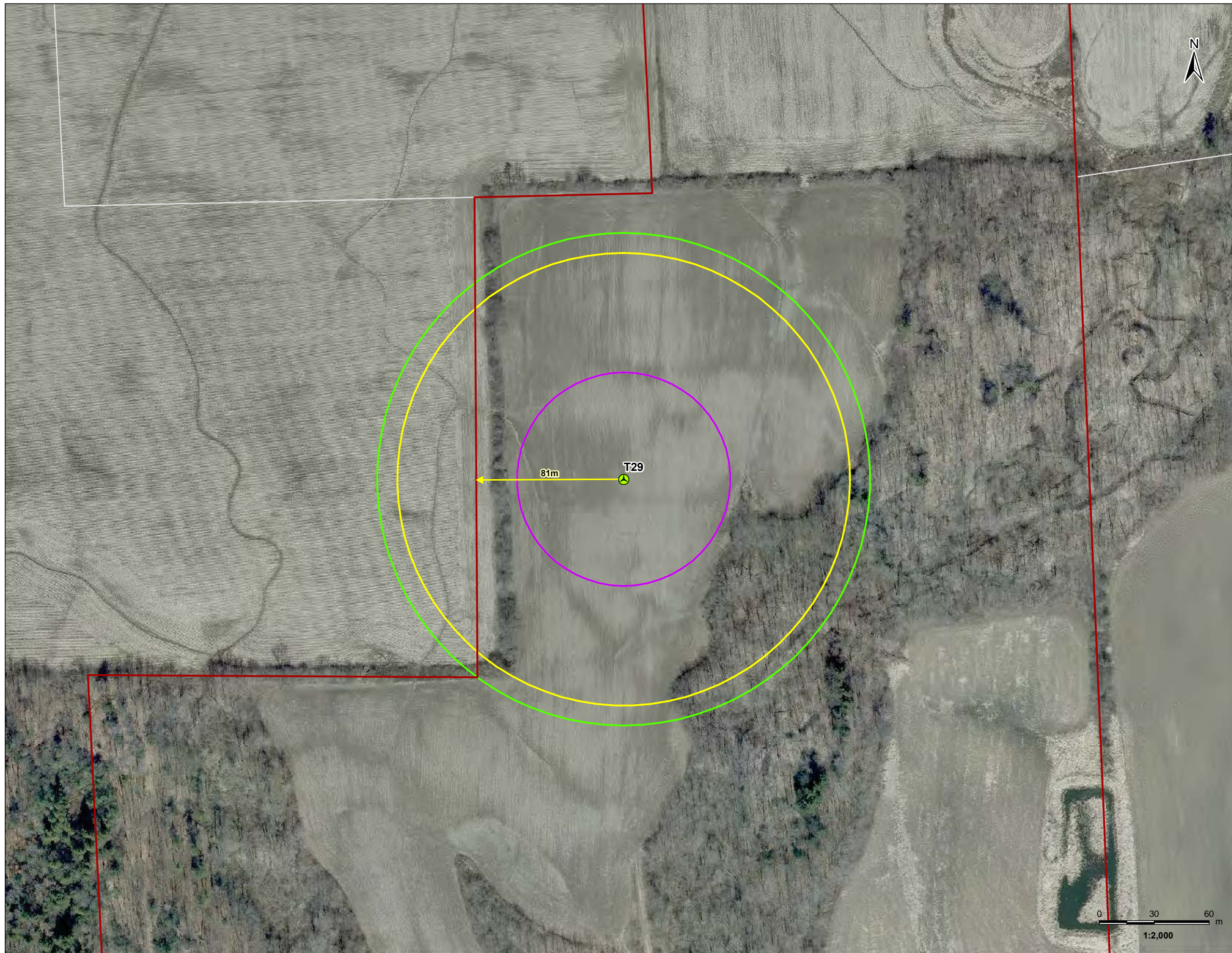
Title

## Overview Maps for Property Line Setback Assessment – T29













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 Revised: 2013-03-01 By: bcowper



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

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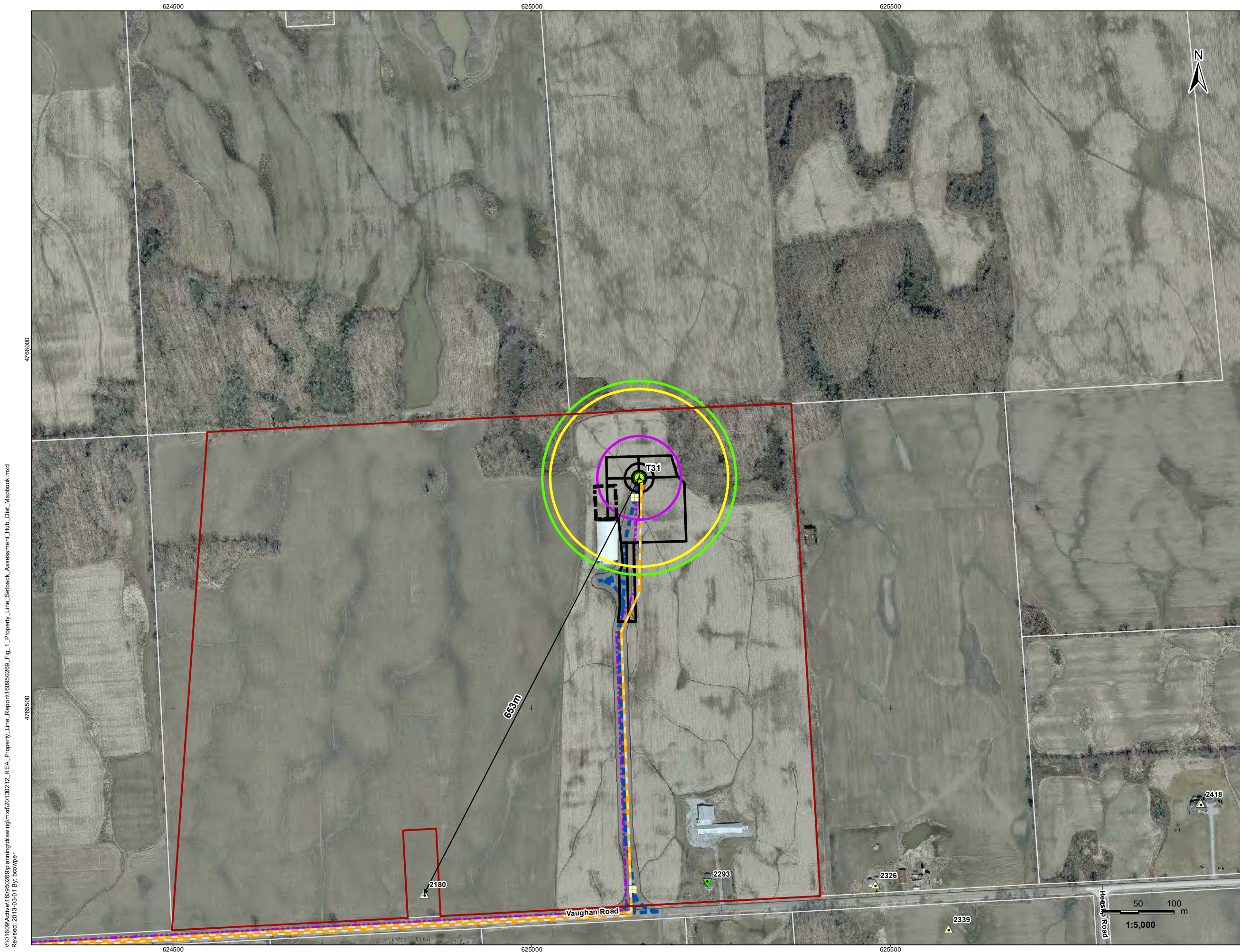
Figure No.

1.25a



















Title

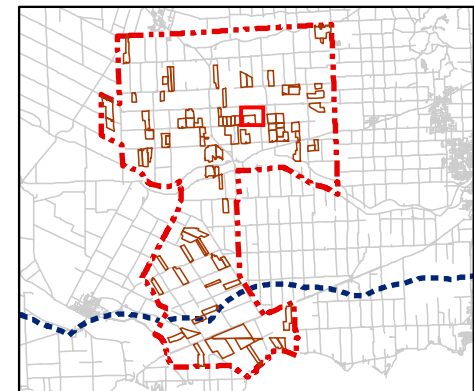
**Inset Maps for  
Property Line Setback – T29**





### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Junction Box
-  Proposed Culvert
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Preferred Transmission Line Route
-  Alternate Transmission Route
-  Potential Access Road
-  Collector Lines - Underground or Overhead
-  Fibre Optic Line
-  Temporary Laydown Area
-  Access Road 20m Construction Area



### Notes

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Figure No.  
1.26

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T31**

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Revised: 2013-03-01 By: bcowper



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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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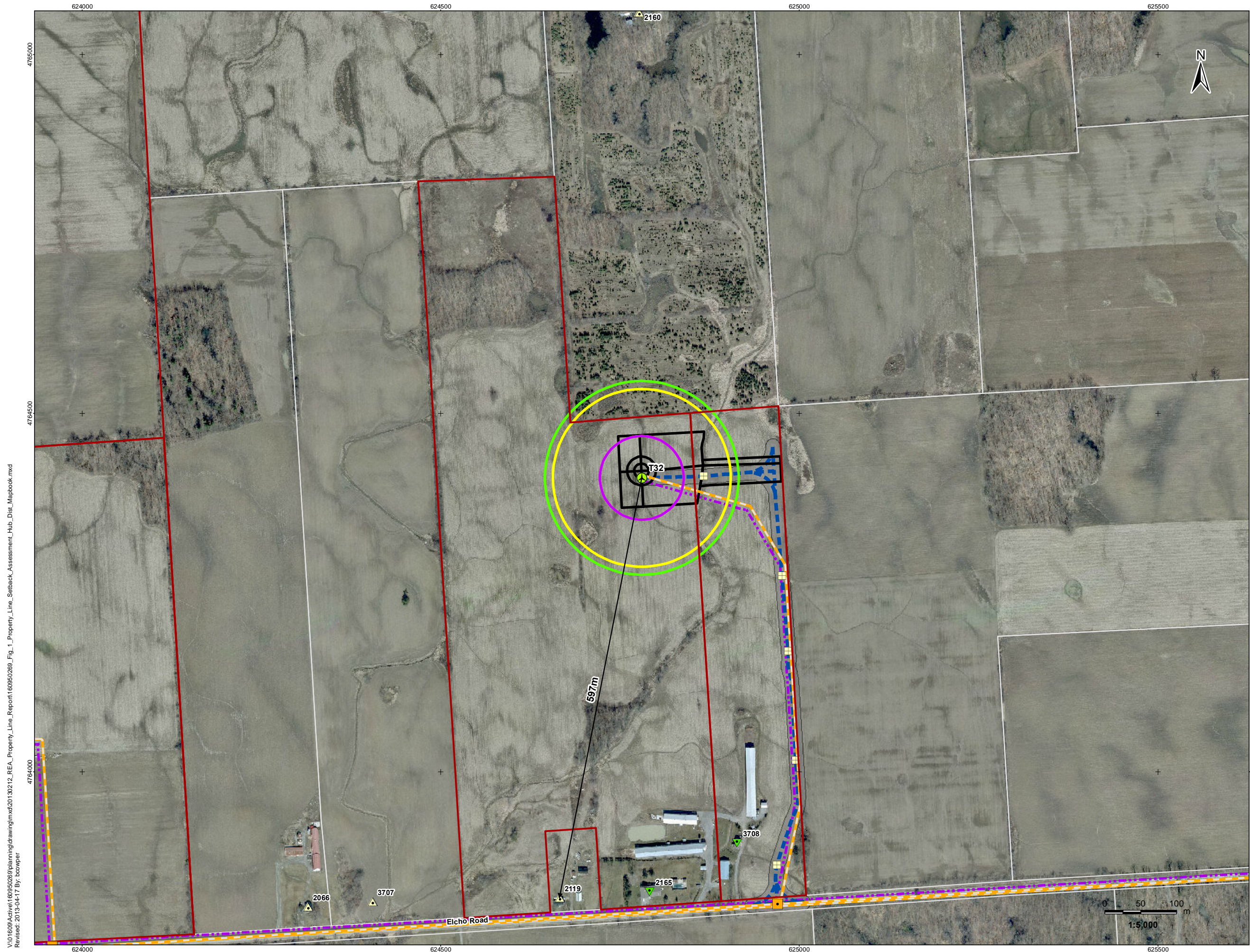
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1.26a

Title

**Inset Maps for  
Property Line Setback – T31**

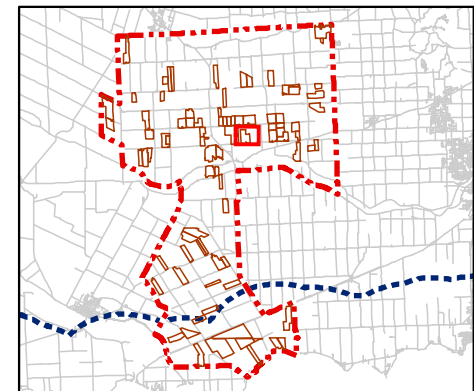




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 Revised: 2013-04-17 By: bcowper

### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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Figure No.  
1.27

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T32**





### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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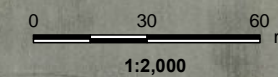
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

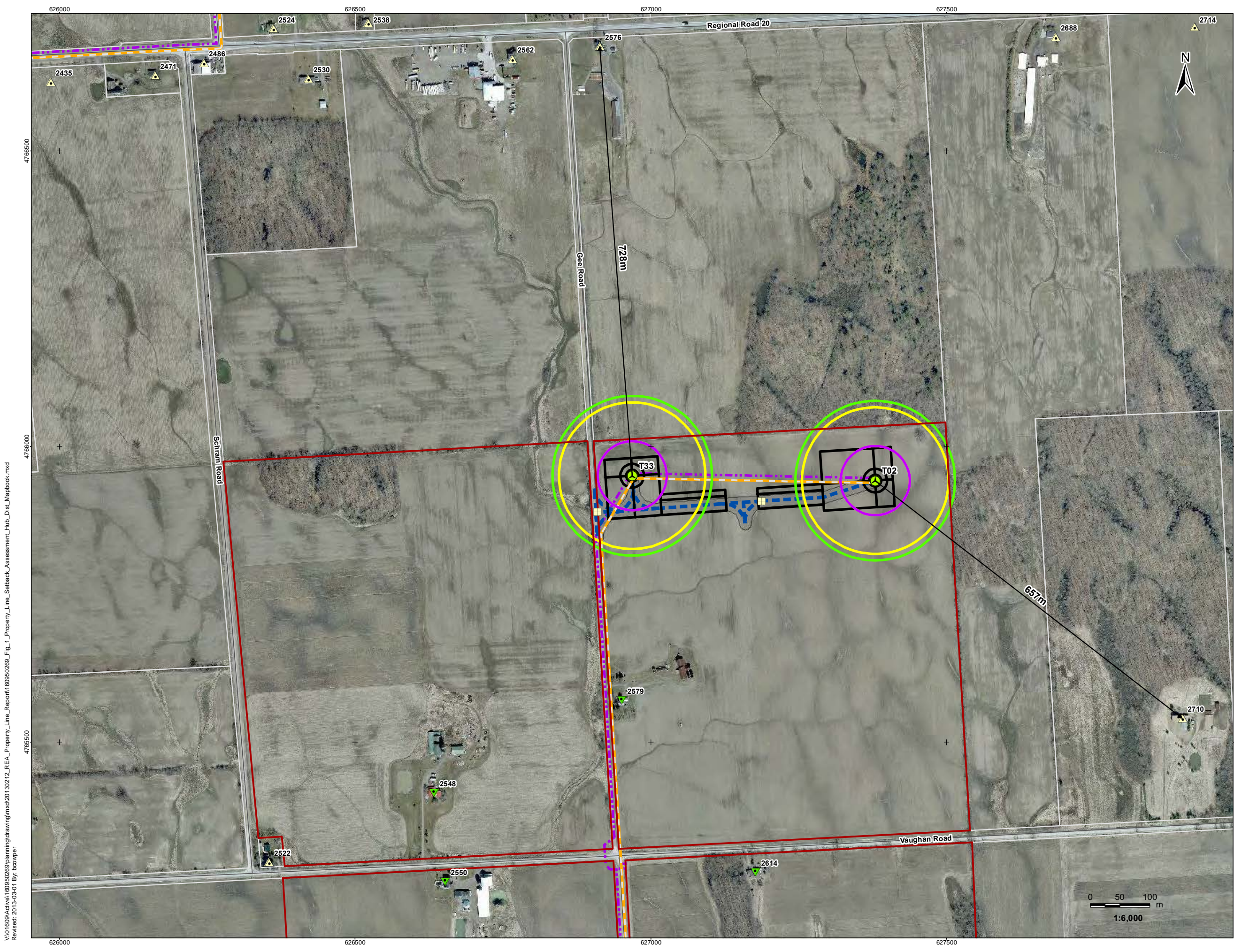
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Title

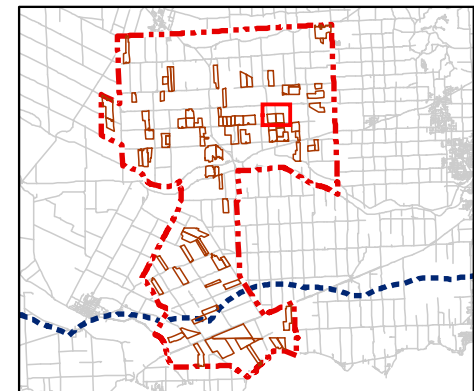
**Inset Maps for  
Property Line Setback – T32**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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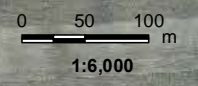
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Figure No.  
1.28

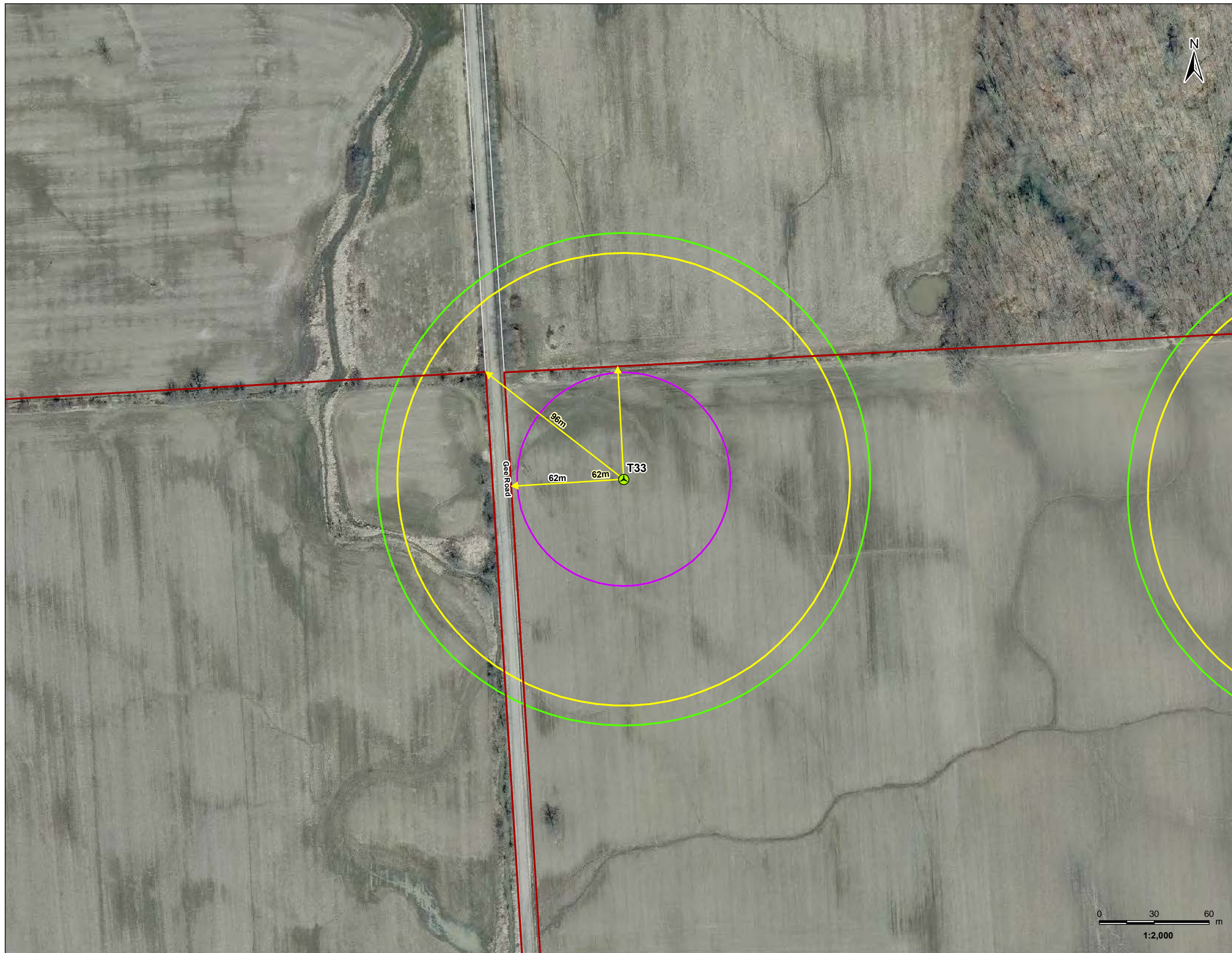
Title  
**Overview Maps for Property  
Line Setback Assessment –  
T33**

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Revised: 2013-03-01 By: bcowper





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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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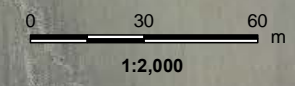
**Stantec**

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160950269

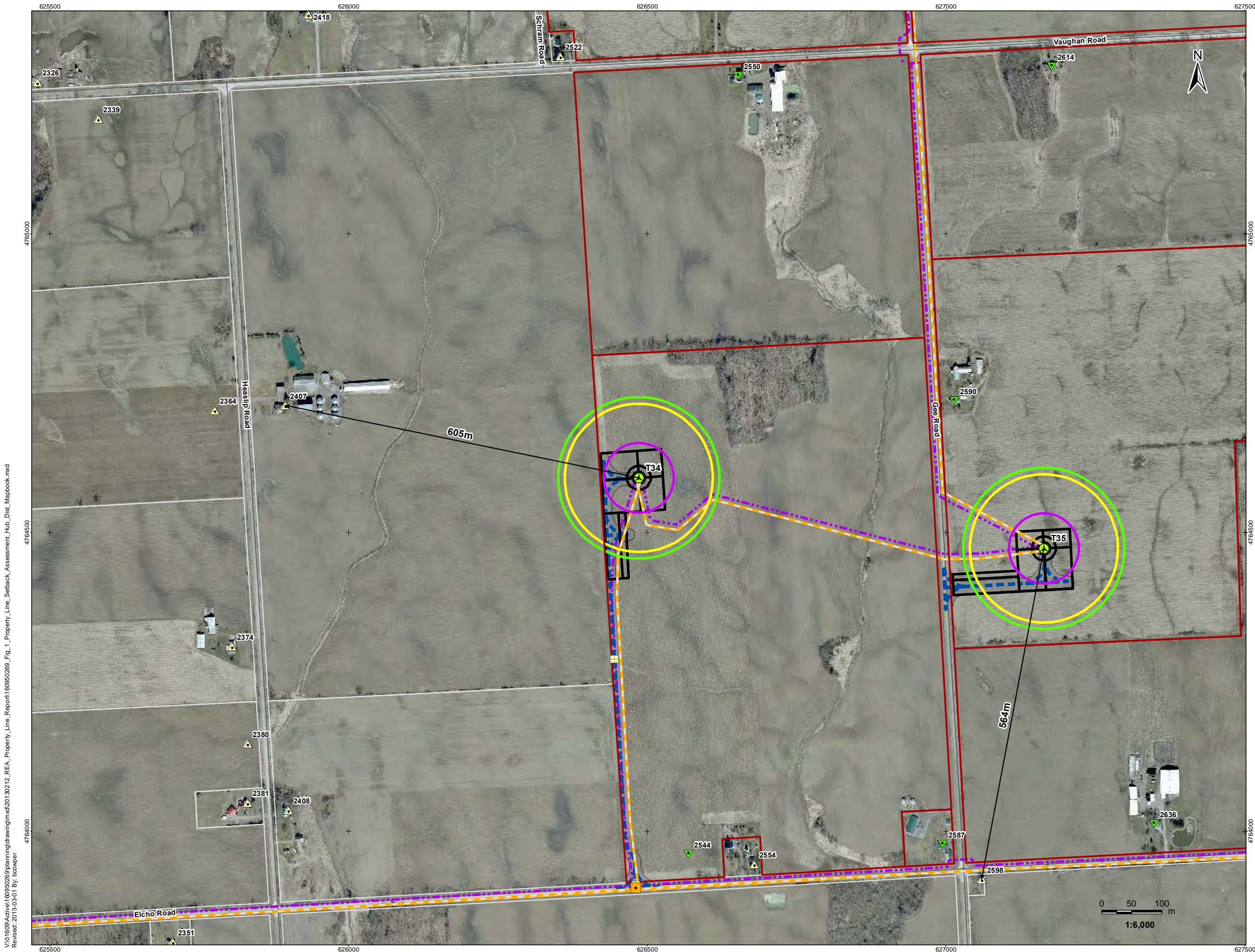
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Niagara Region Wind Farm

Figure No.  
1.28a

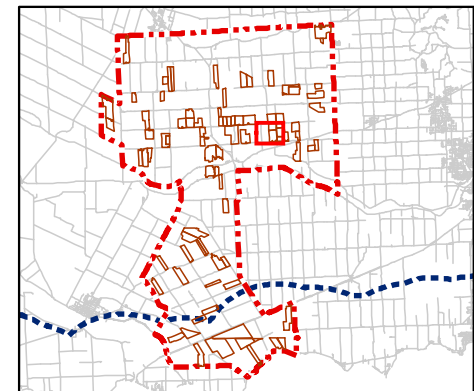
Title  
**Inset Maps for  
Property Line Setback – T33**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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Figure No.  
1.29

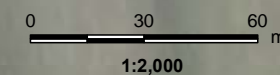
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Title













## Overview Maps for Property Line Setback Assessment – T34

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Revised: 2013-03-01 By: bcooper





### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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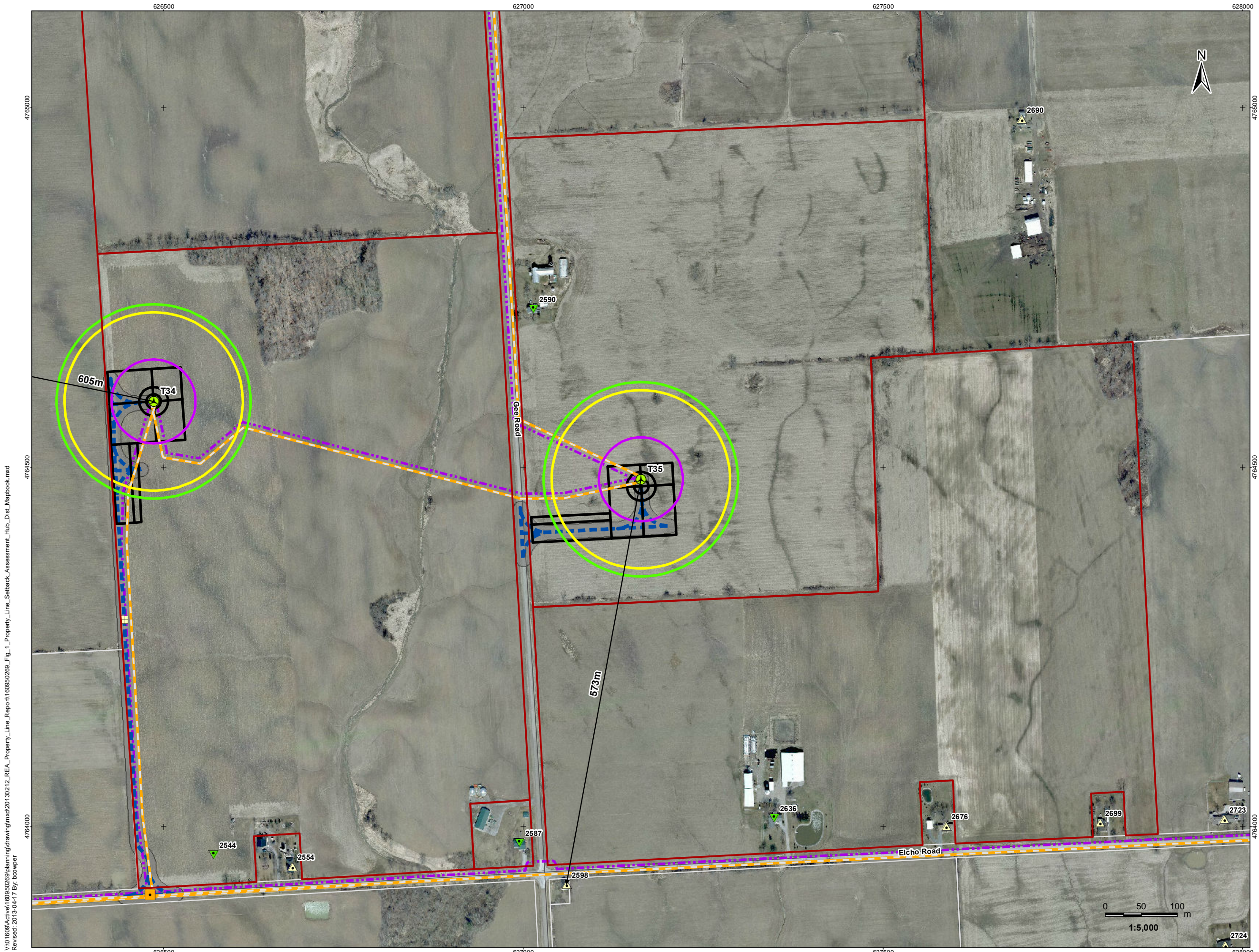
Figure No.

1.29a

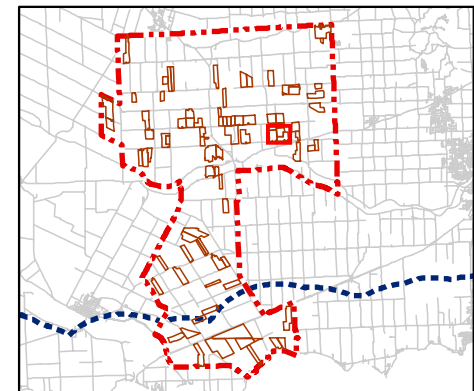
Title

**Inset Maps for  
Property Line Setback – T34**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - Non-Participating Receptor
  - Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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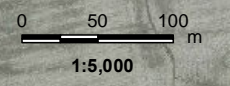
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Figure No.  
1.30

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T35**

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Revised: 2013-04-17 By: bcpwper

















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Revised: 2013-04-17 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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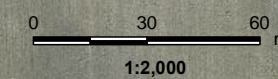
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

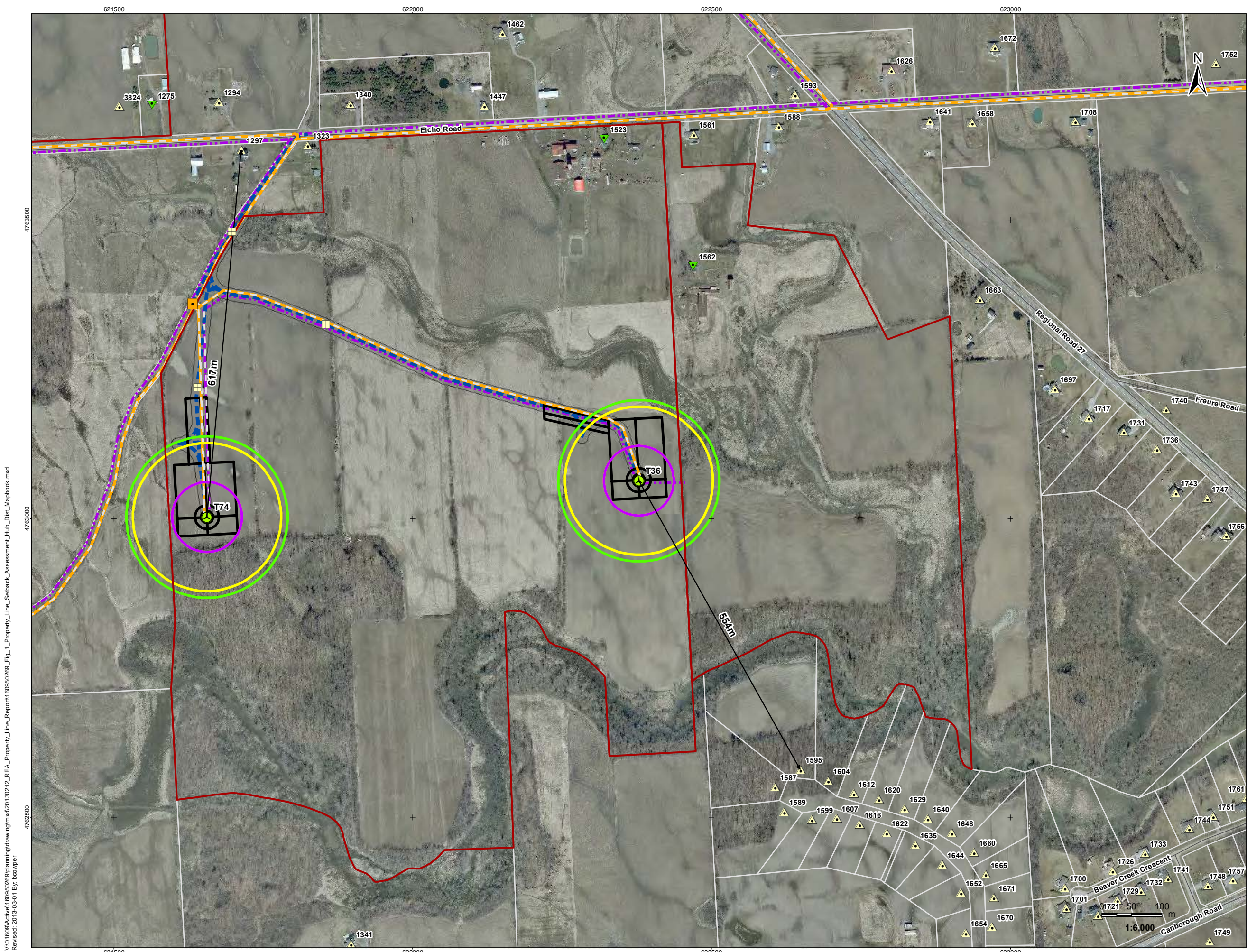
1.30a

Title

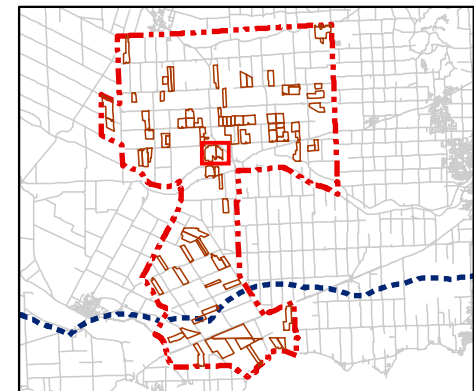
**Inset Maps for  
Property Line Setback – T35**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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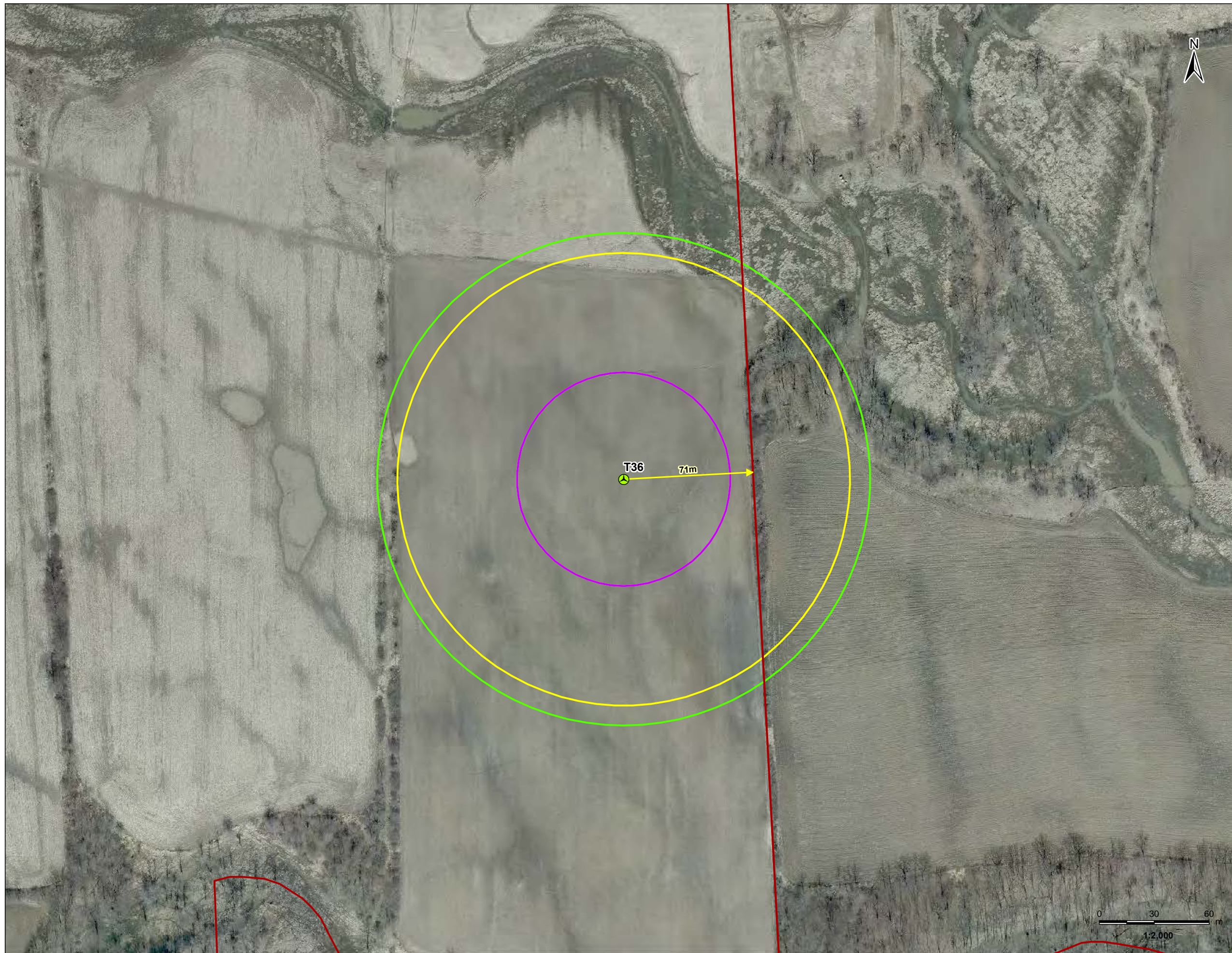
Figure No.  
 1.31

Title  
**Overview Maps for Property Line Setback Assessment – T36**













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 Revised: 2013-03-01 By: bcooper



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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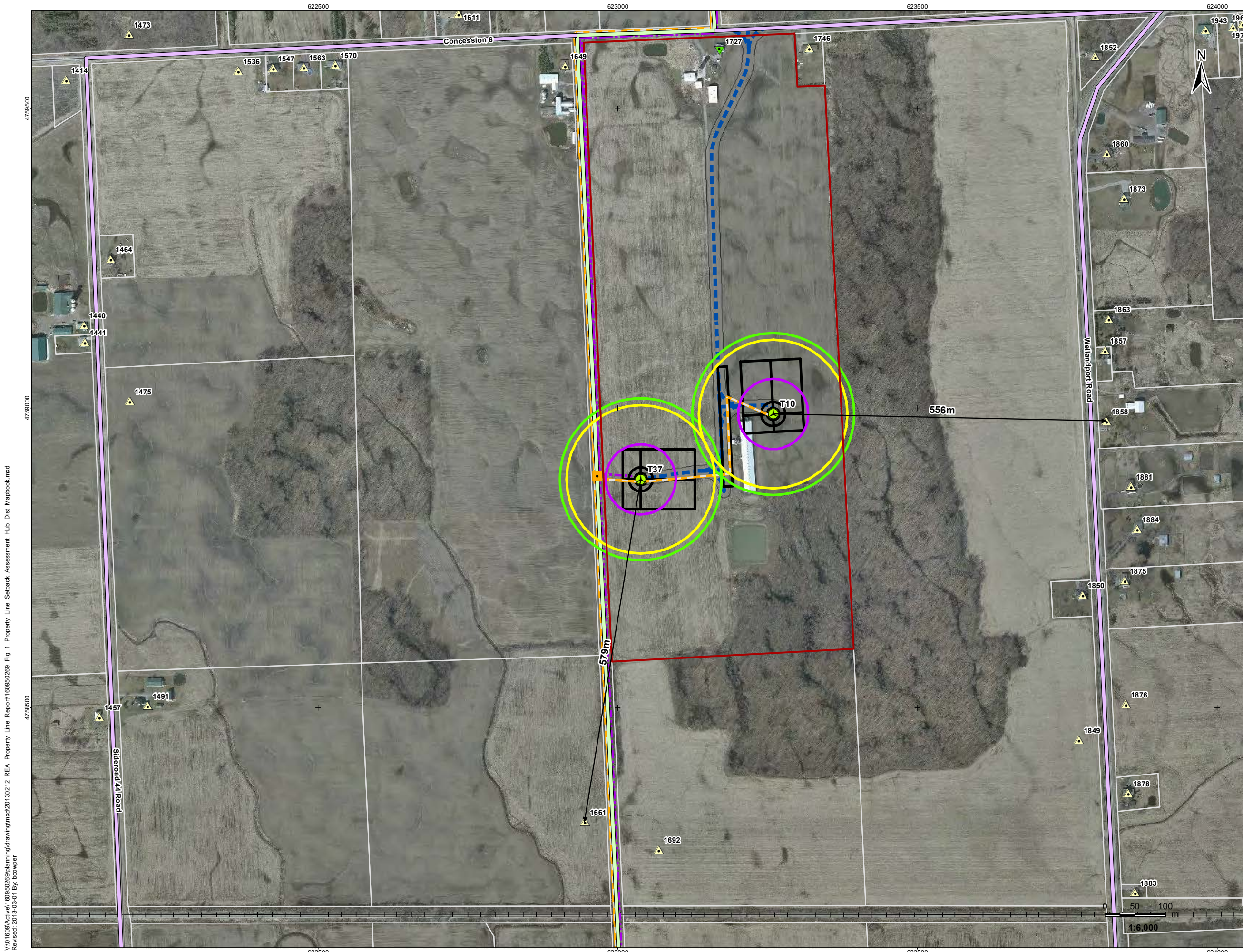
Figure No.

1.31a

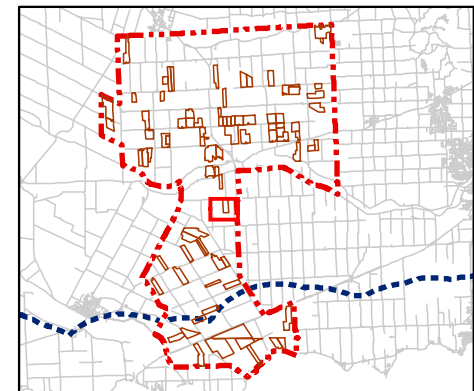
Title

**Inset Maps for  
Property Line Setback – T36**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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Figure No.  
1.32

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T37**

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Revised: 2013-03-01 By: bcowper





### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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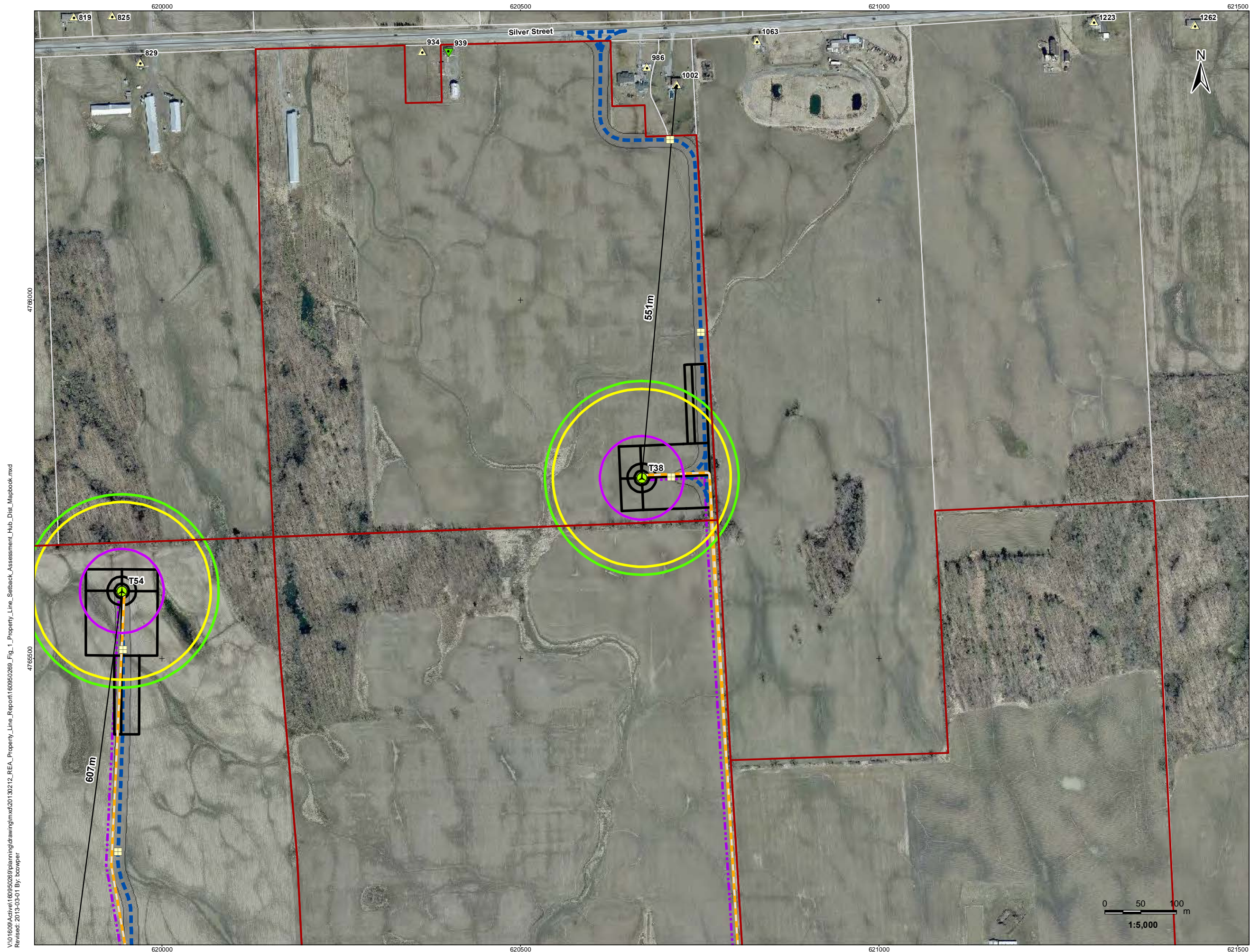
Figure No.

1.32a

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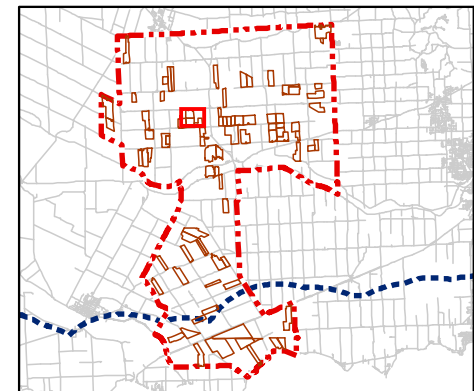
**Inset Maps for  
Property Line Setback – T37**





### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- - - Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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Figure No.  
1.33

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T38**













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Revised: 2013-03-01 By: bcooper



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.33a

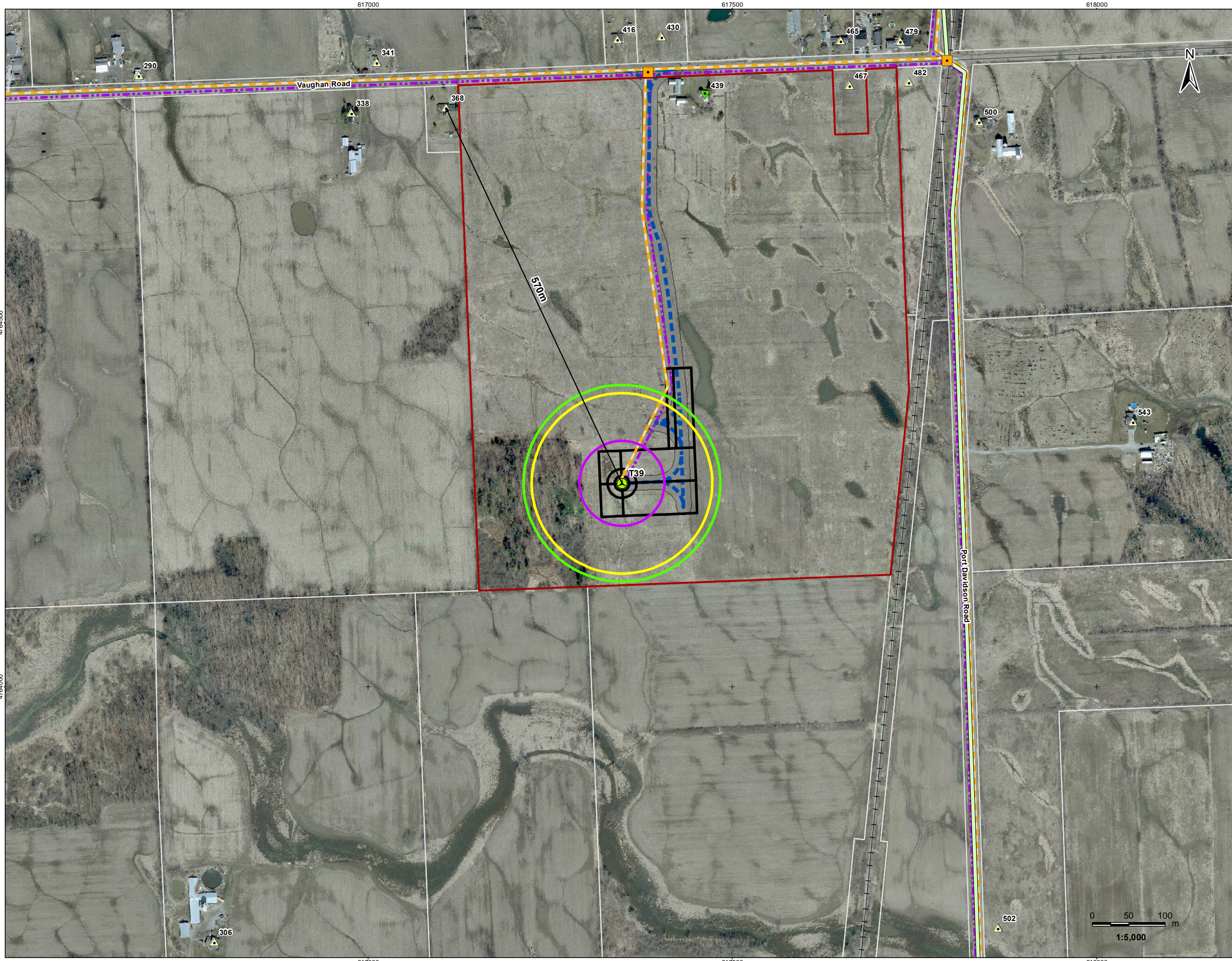
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**Inset Maps for  
Property Line Setback – T38**

0 30 60 m  
1:2,000

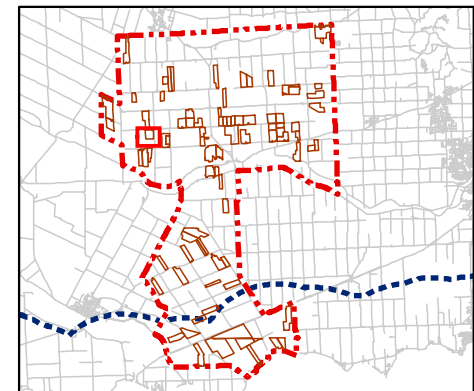


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Revised: 2013-04-18 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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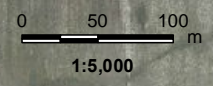
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April, 2013  
160950269

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Niagara Region Wind Farm

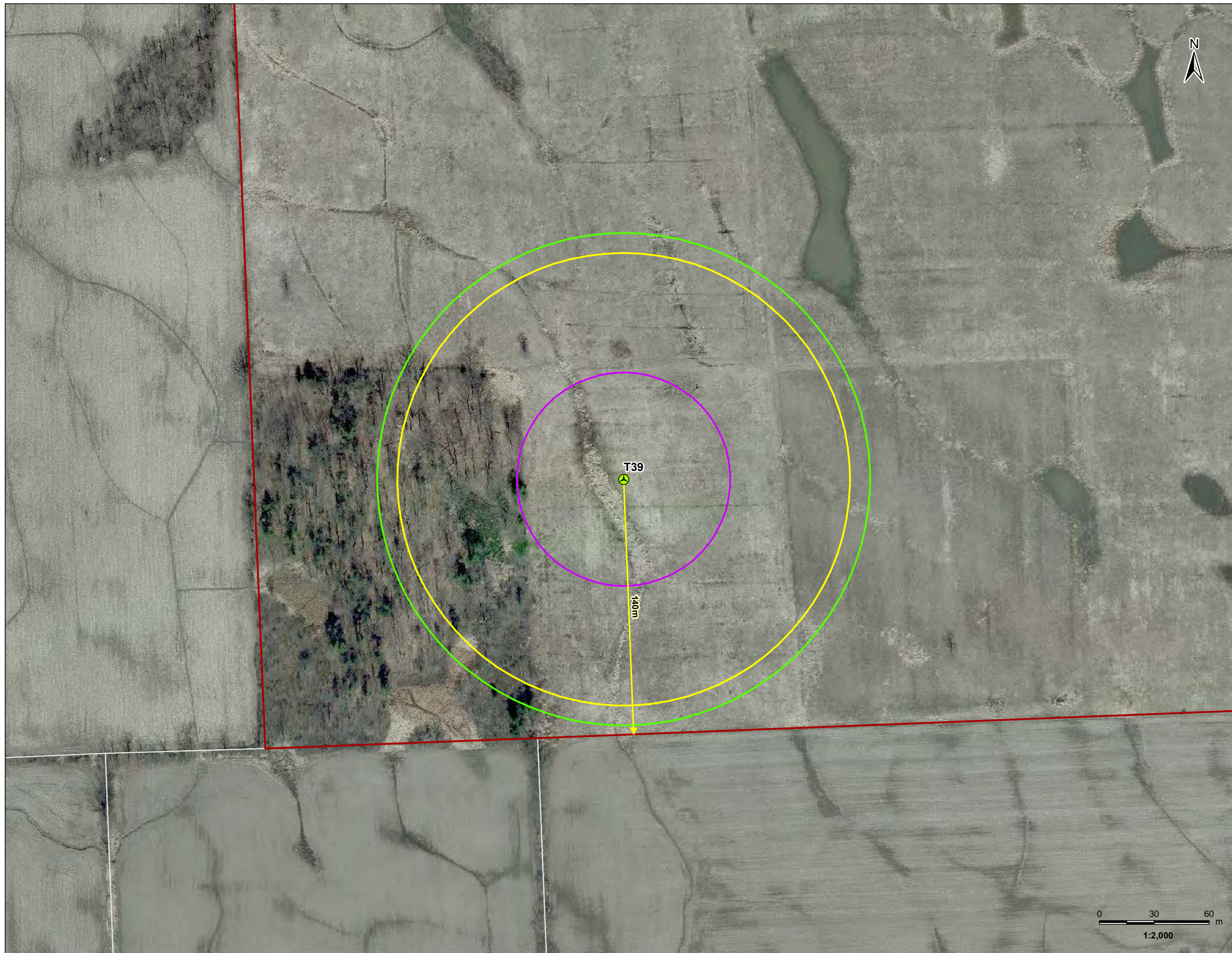
Figure No.  
1.34

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T39**

















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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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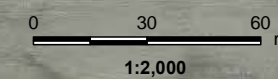
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

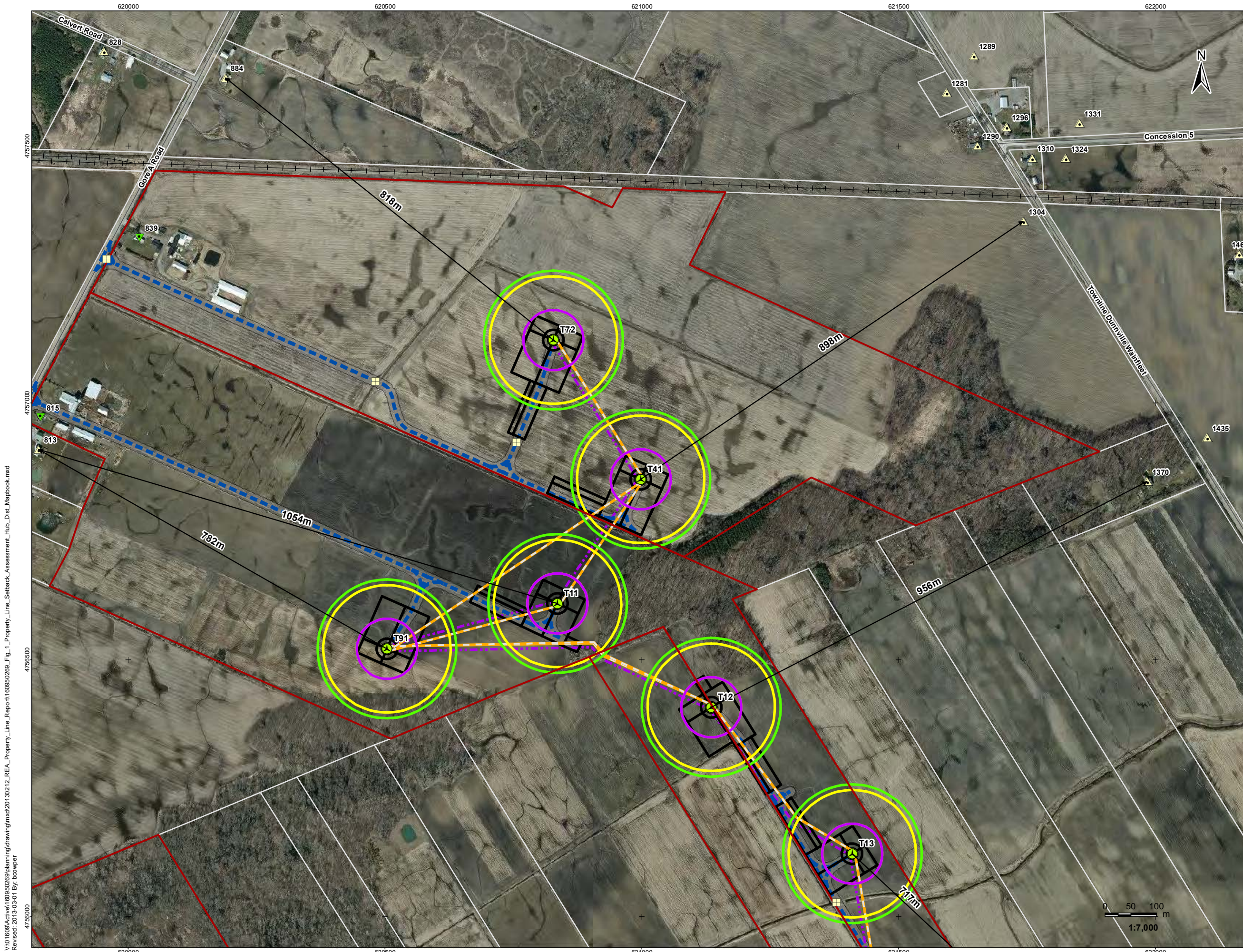
1.34a

Title

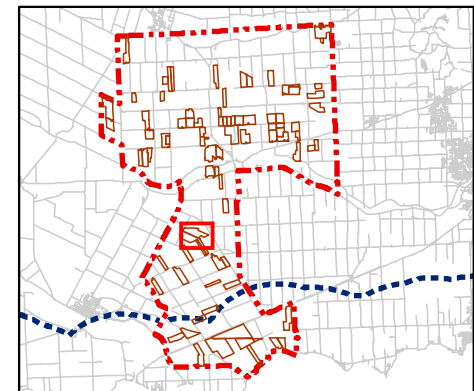
**Inset Maps for  
Property Line Setback – T39**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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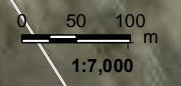


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 Niagara Region Wind Farm

Figure No.  
 1.35

Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T41**

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 Revised: 2013-03-01 By: bcowper

















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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.35a

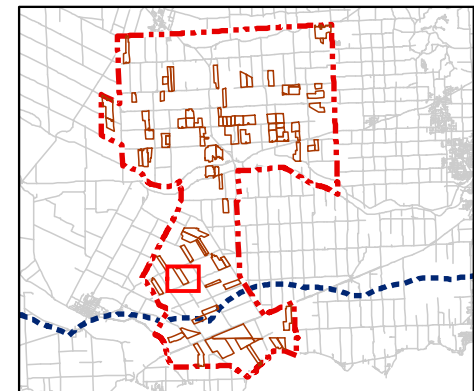
Title

**Inset Maps for  
Property Line Setback – T41**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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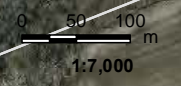


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 Niagara Region Wind Corporation  
 Niagara Region Wind Farm

Figure No.  
 1.36

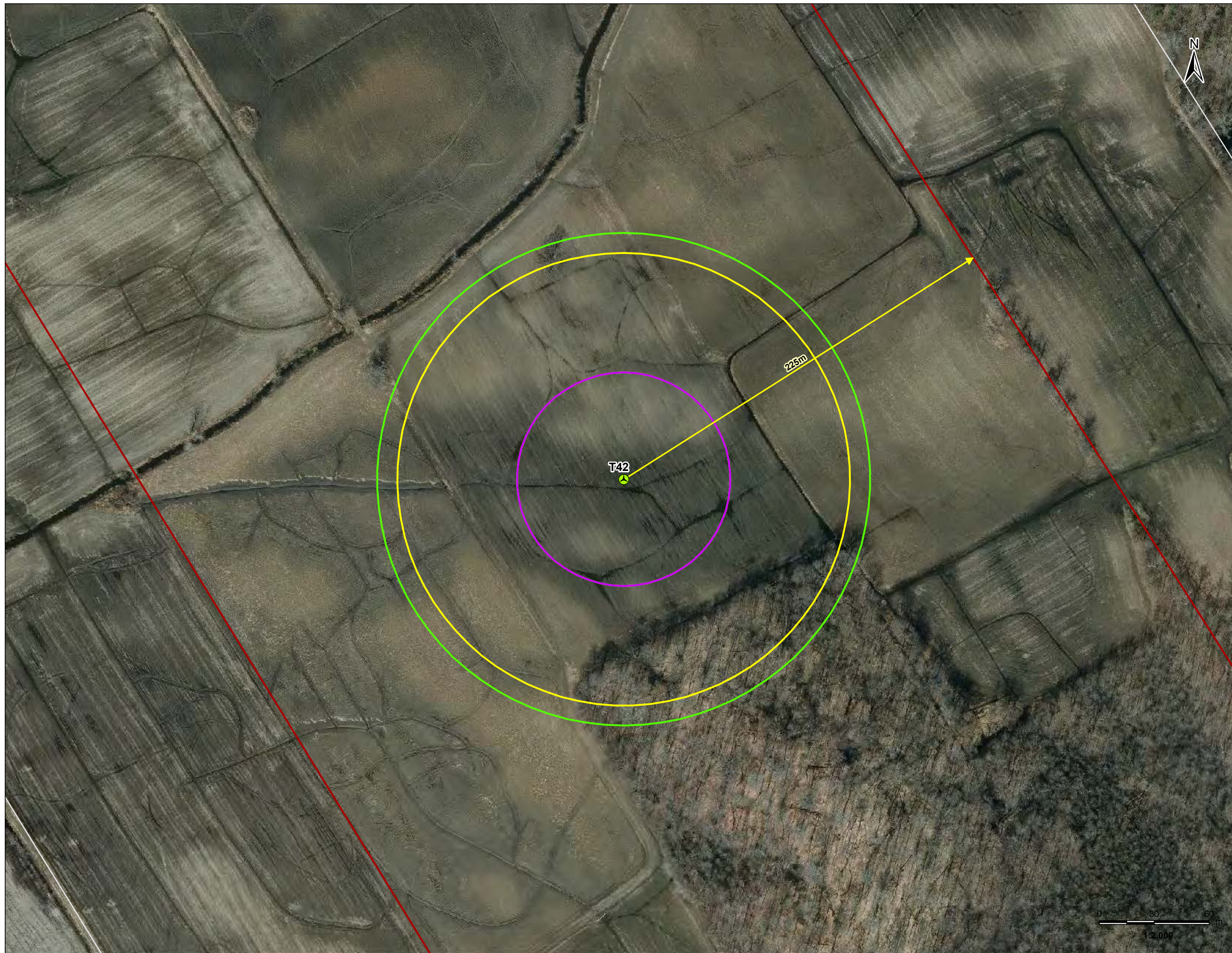
Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T42**

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 Revised: 2013-03-01 By: bcowper





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Revised: 2013-03-01 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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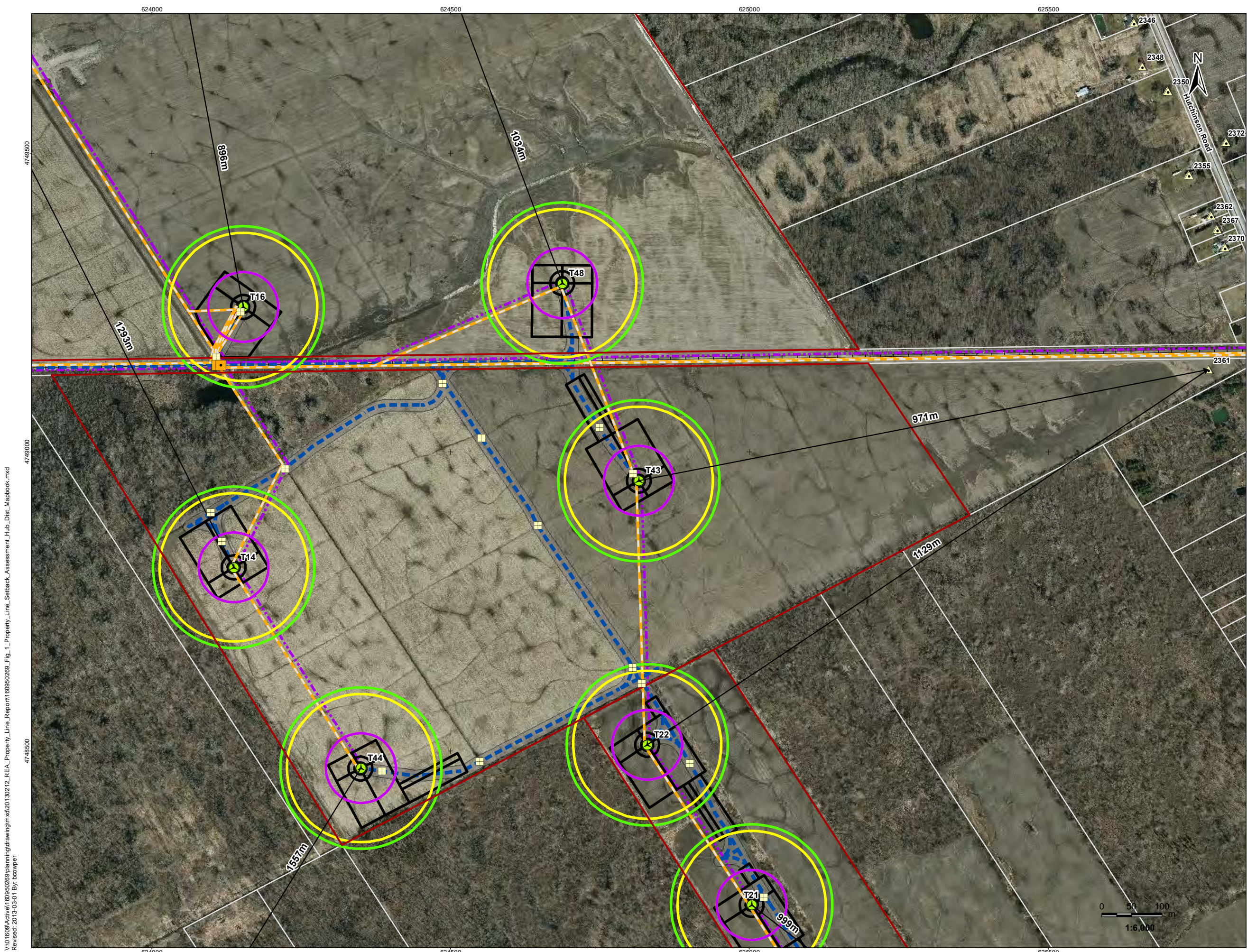
Figure No.

1.36a

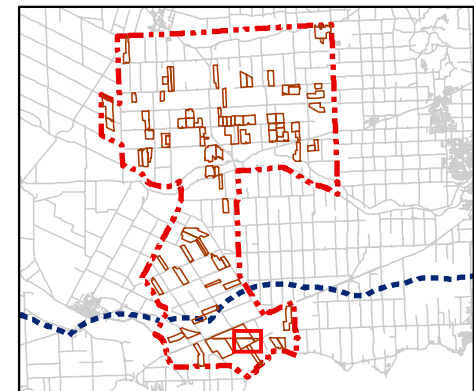
Title

**Inset Maps for  
Property Line Setback – T42**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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Figure No.  
 1.37

Title  
**Overview Maps for Property Line Setback Assessment – T43**

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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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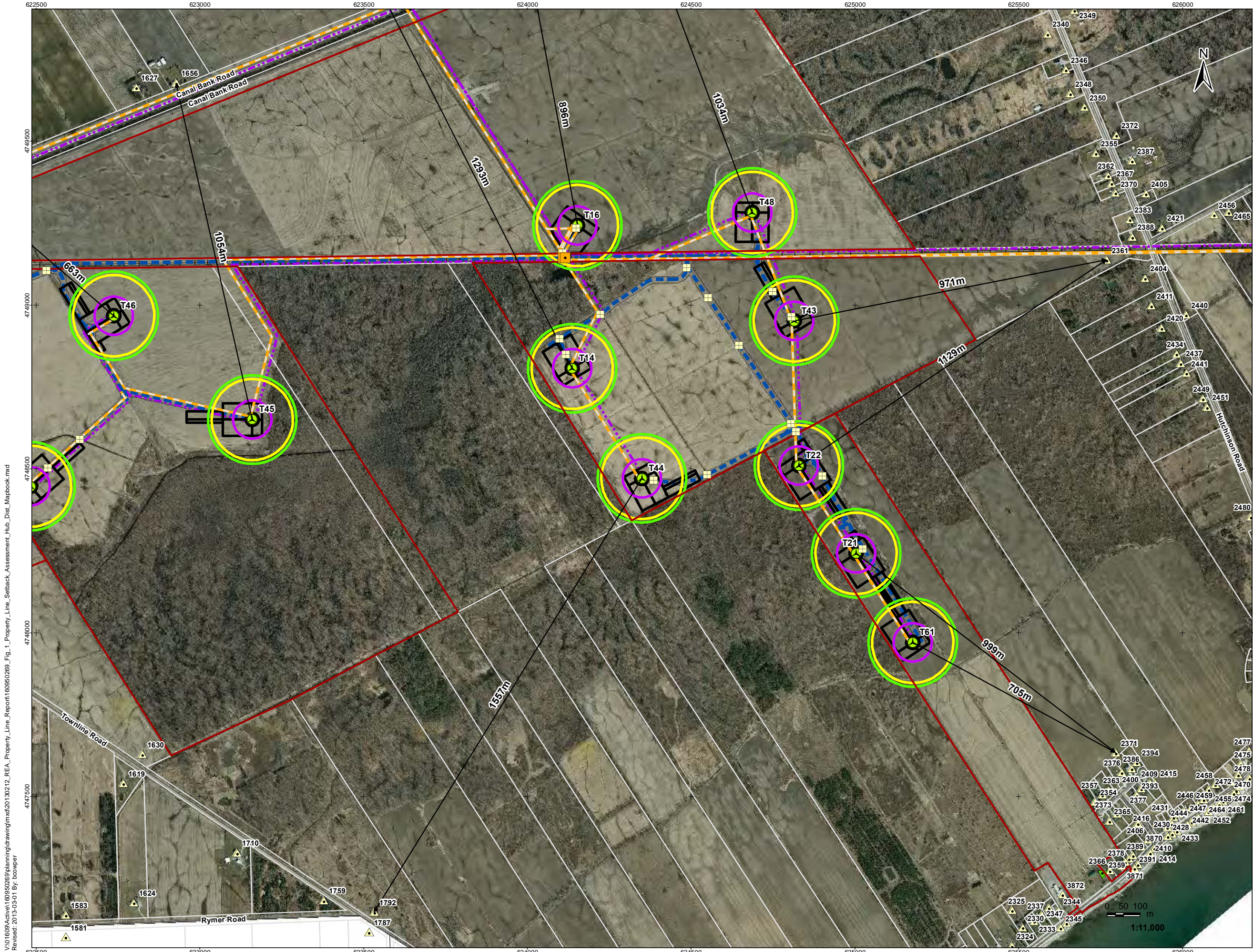
Figure No.

1.37a

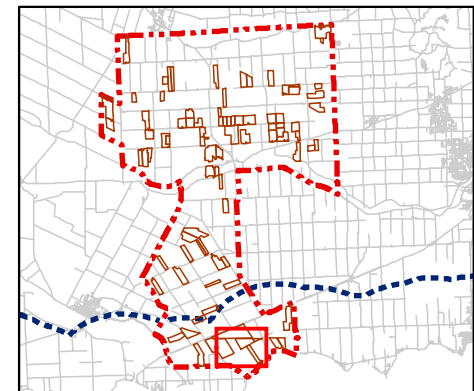
Title

**Inset Maps for  
Property Line Setback – T43**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
1. Coordinate System: NAD 1983 UTM Zone 17N).
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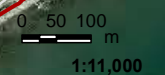
March, 2013  
160950269

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Niagara Region Wind Farm

Figure No.  
**1.38**

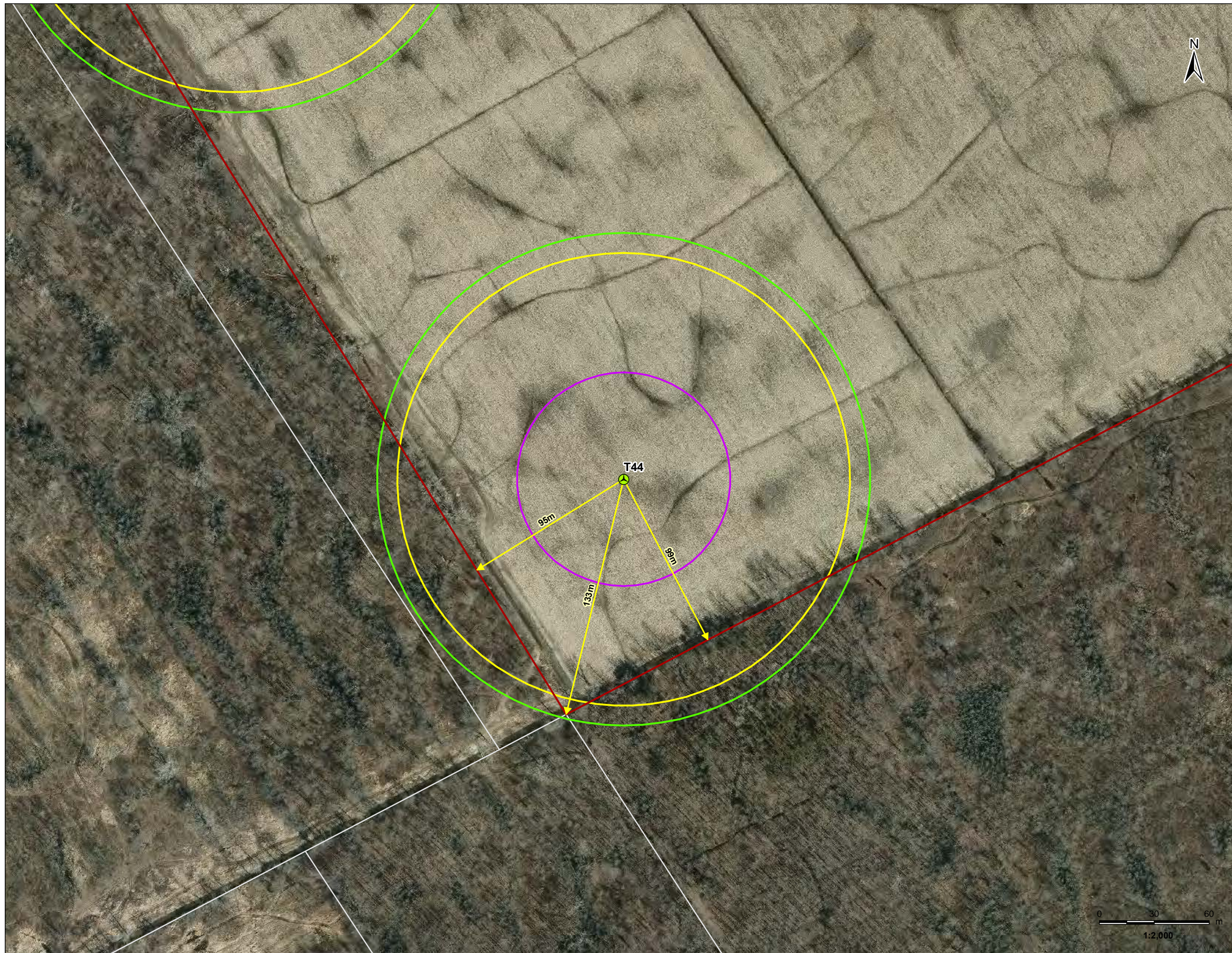
Title  
**Overview Maps for Property  
Line Setback Assessment –  
T44**

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Revised: 2013-03-01 By: bcooper





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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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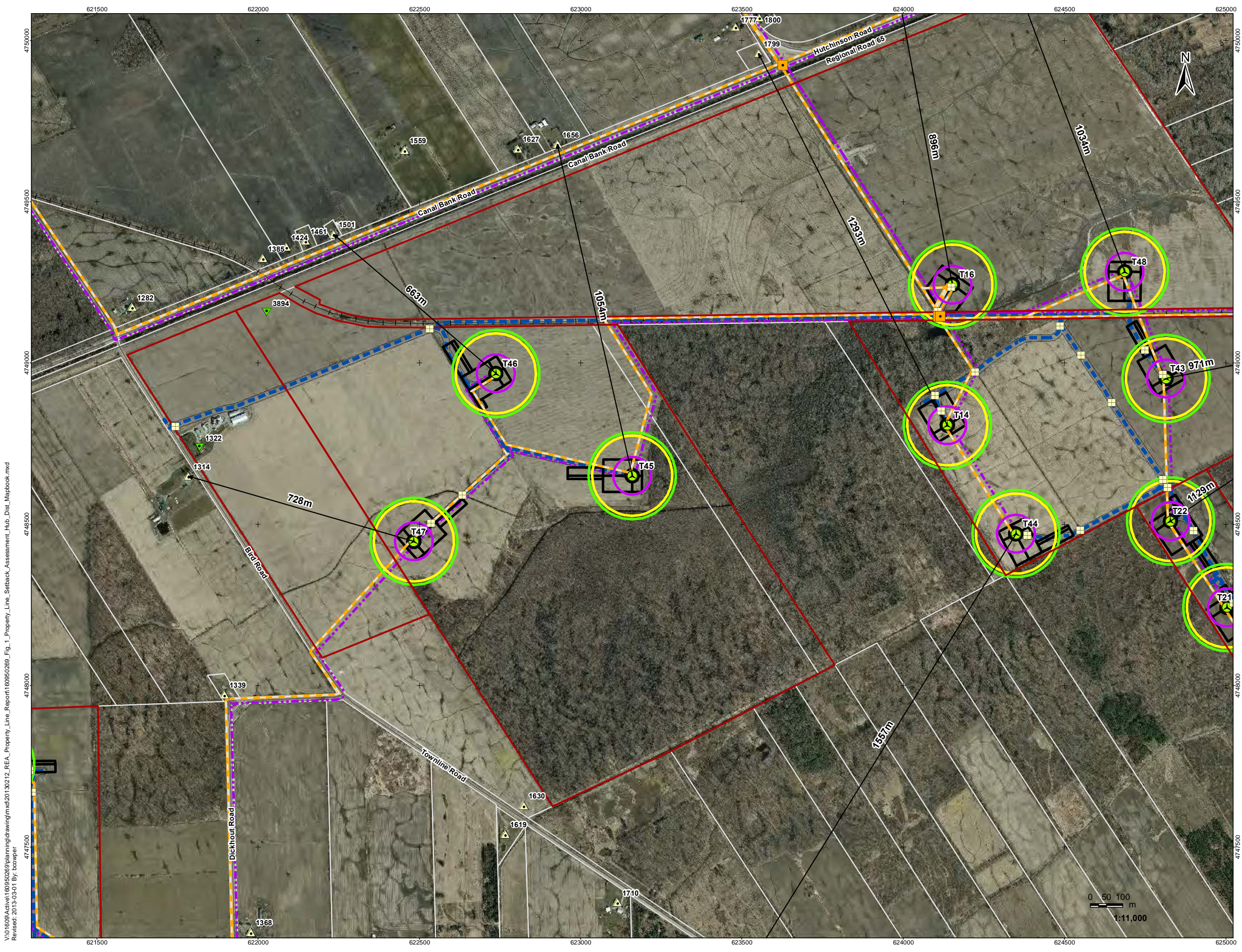
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1.38a

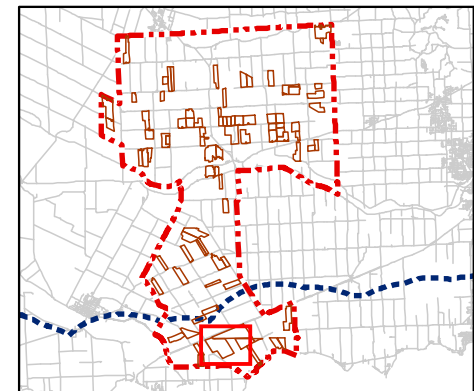
Title

**Inset Maps for  
Property Line Setback – T44**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
1. Coordinate System: NAD 1983 UTM Zone 17N).
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---

Figure No.  
1.39

---

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T45**

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 Revised: 2013-03-01 By: bcowper



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Revised: 2013-03-01 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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Figure No.

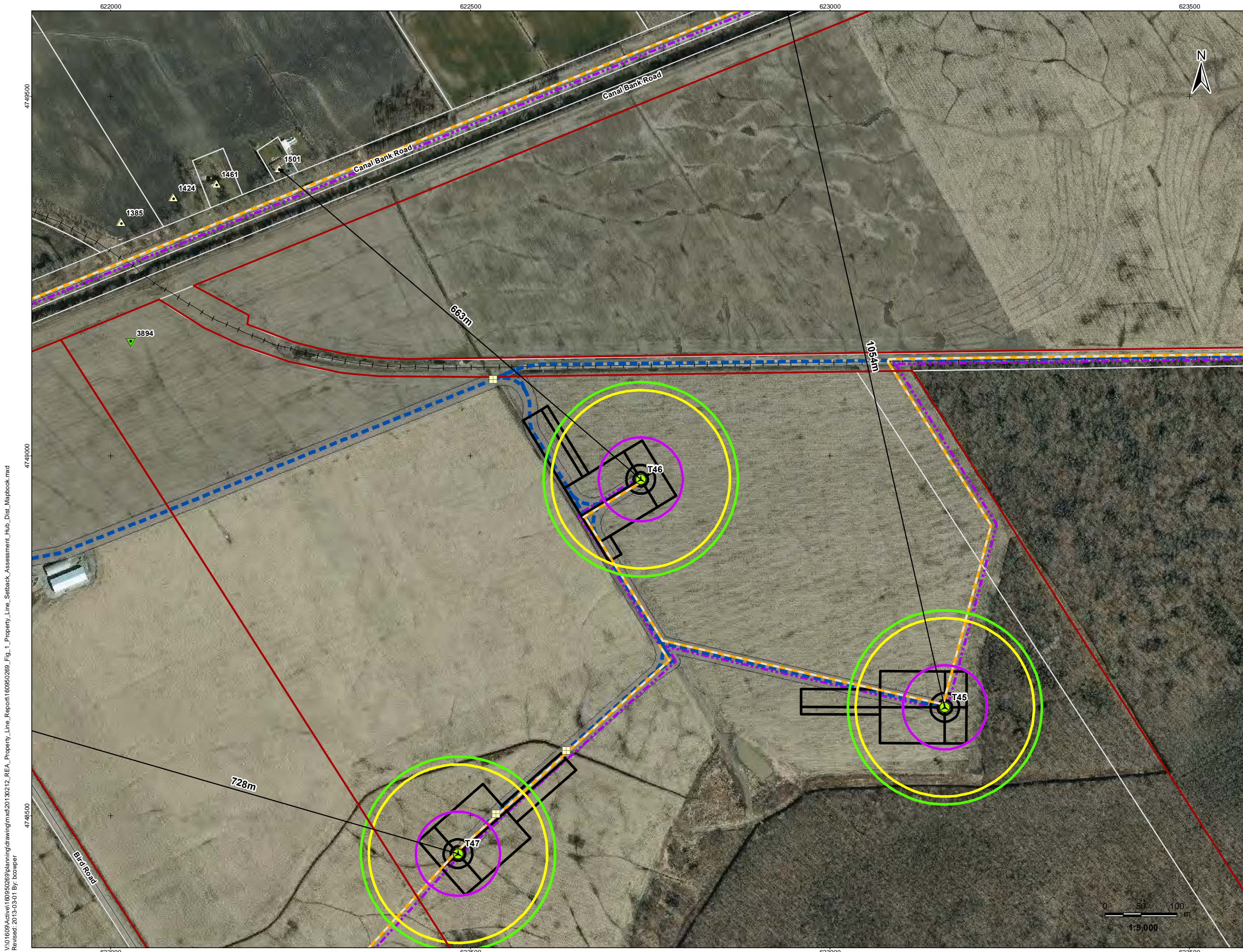
1.39a

Title

**Inset Maps for  
Property Line Setback – T45**

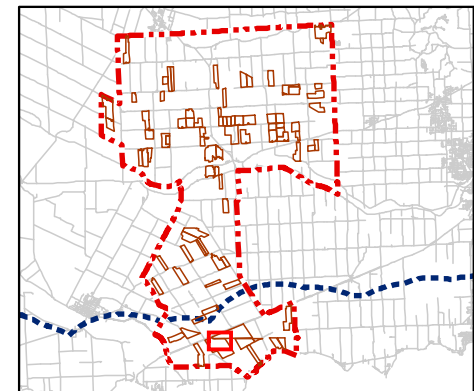






**Legend**

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



**Notes**

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Figure No.  
1.40

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T46**

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Revised: 2013-03-01 By: bcowper



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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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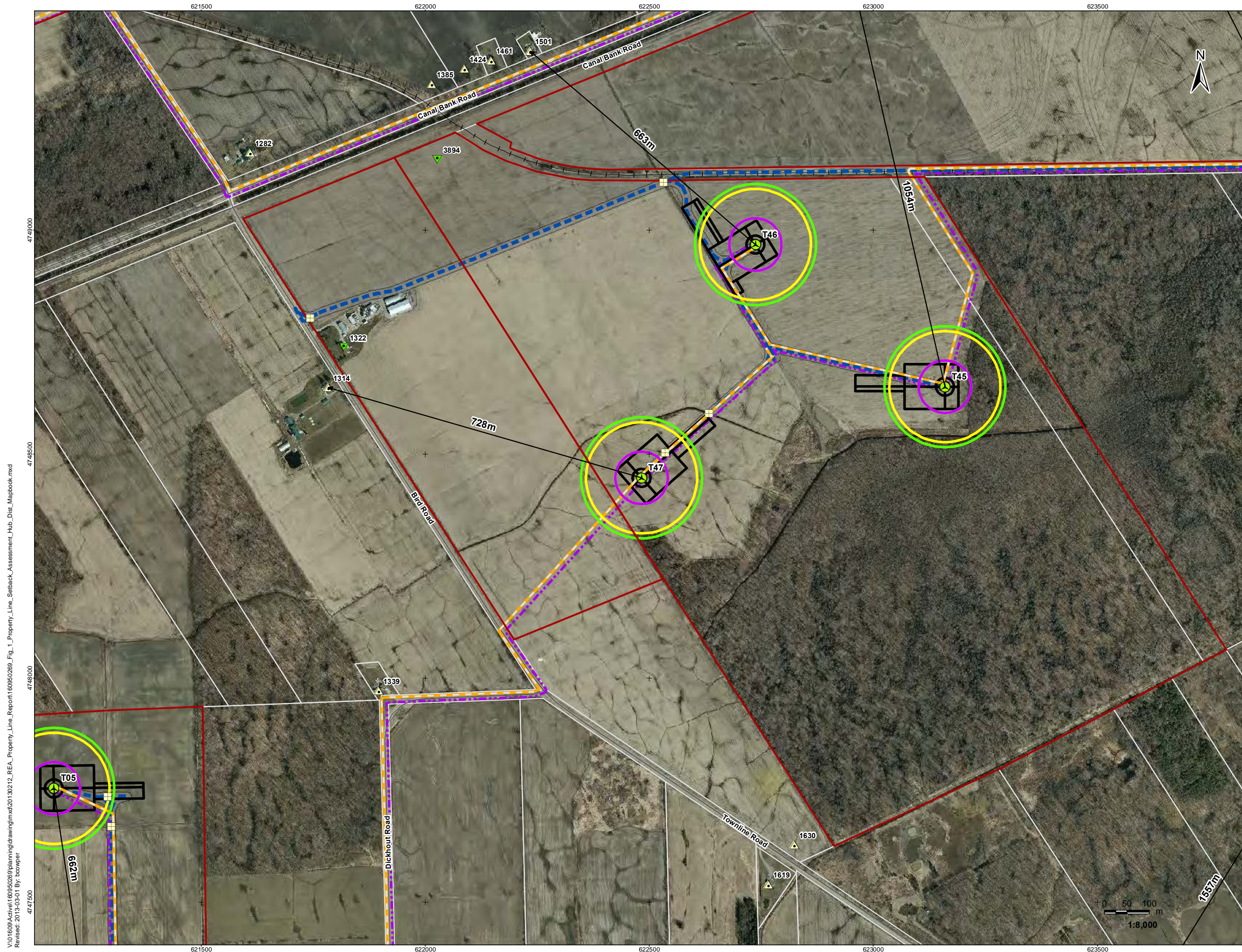
Figure No.

1.40a

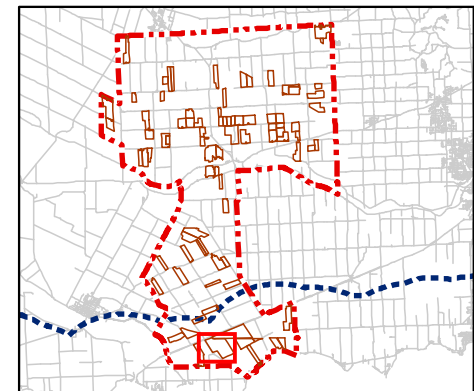
Title

**Inset Maps for  
Property Line Setback – T46**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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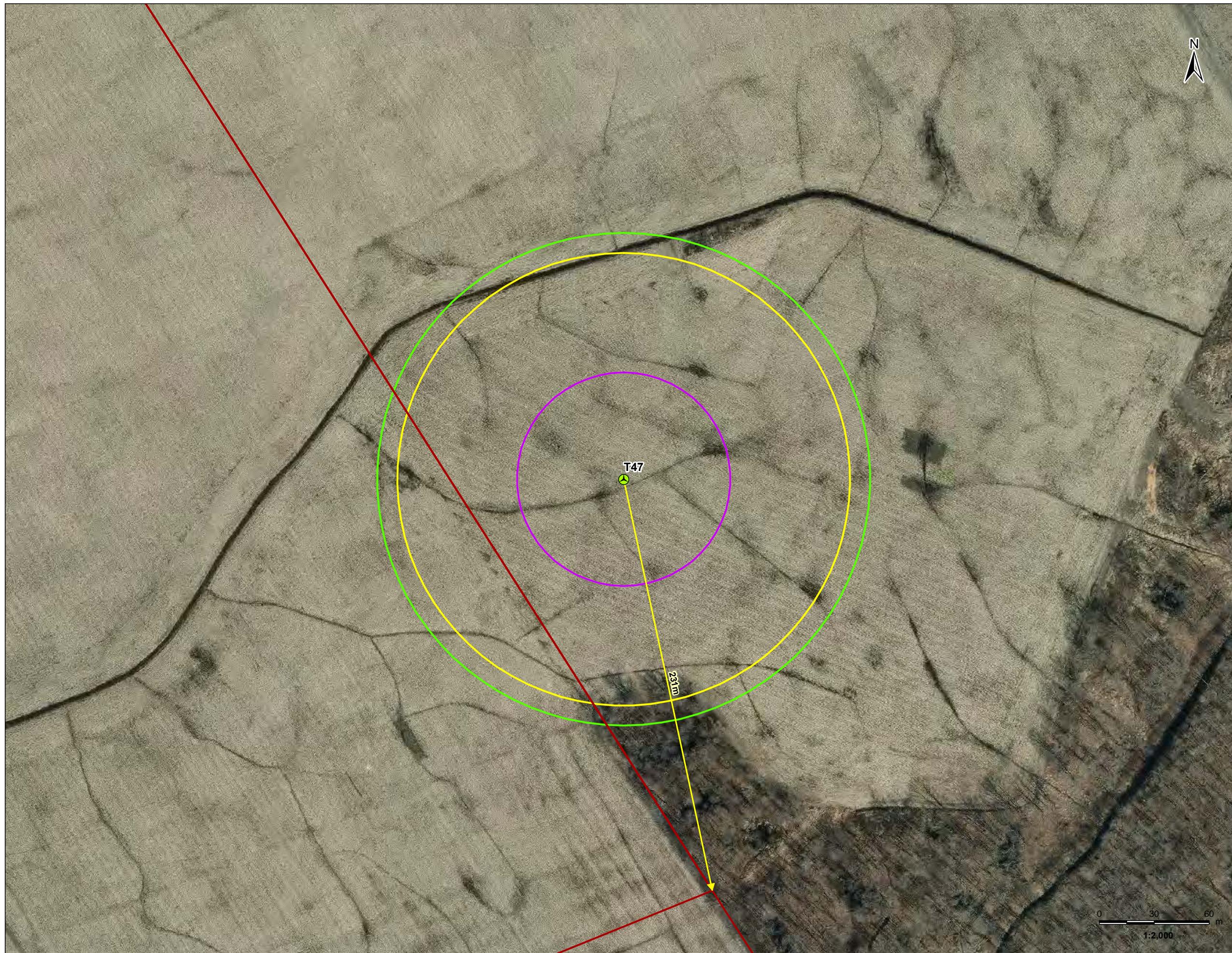
Figure No.  
1.41

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T47**













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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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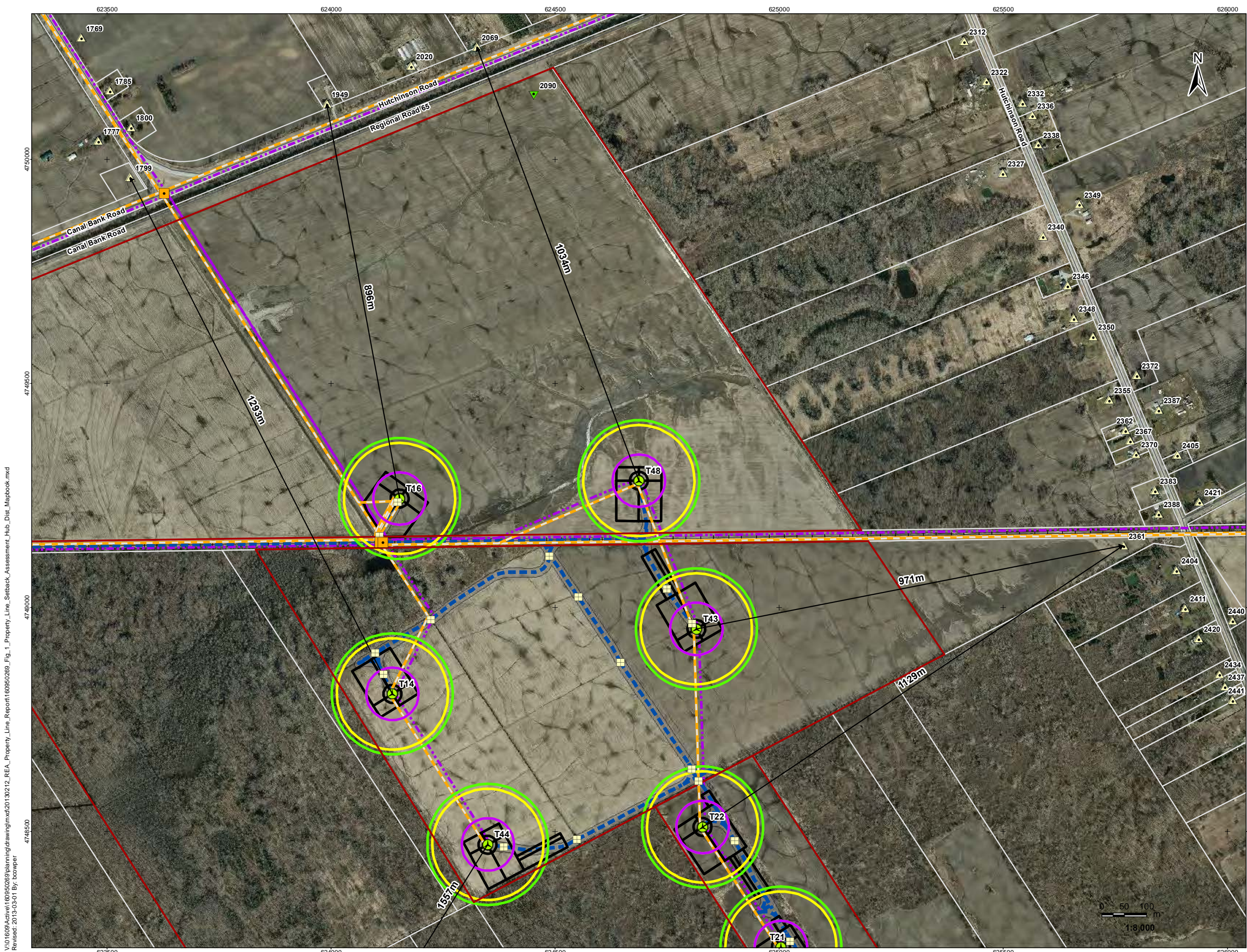
Figure No.

1.41a

Title

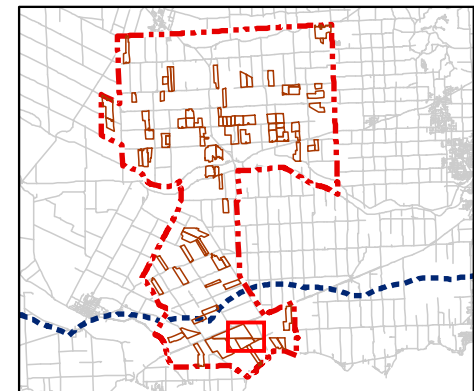
**Inset Maps for  
Property Line Setback – T47**





### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



- ### Notes
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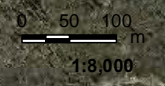
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Figure No.  
1.42

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Title  
**Overview Maps for Property  
Line Setback Assessment –  
T48**

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Revised: 2013-03-01 By: bcooper





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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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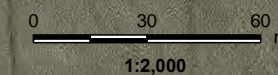
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

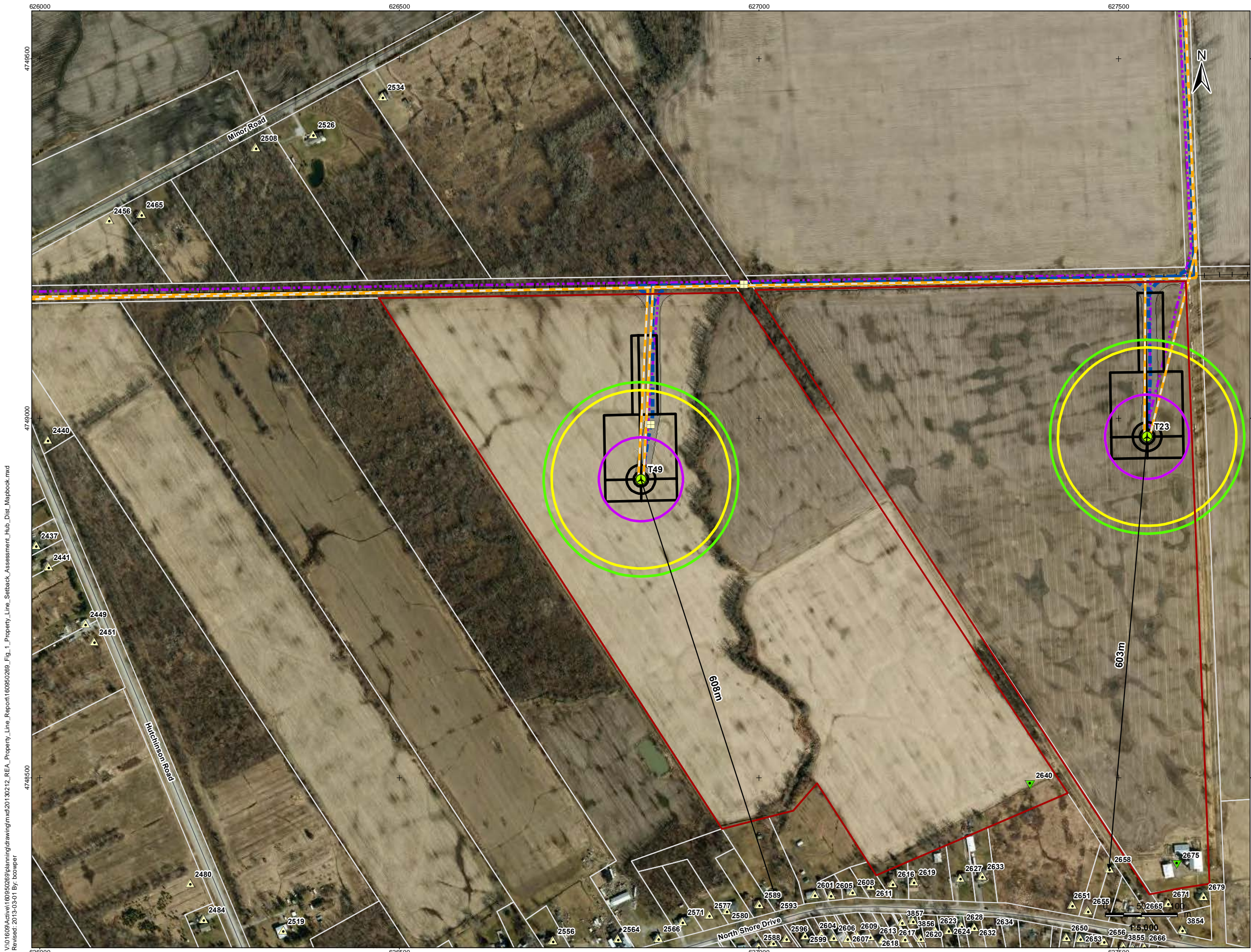
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Title

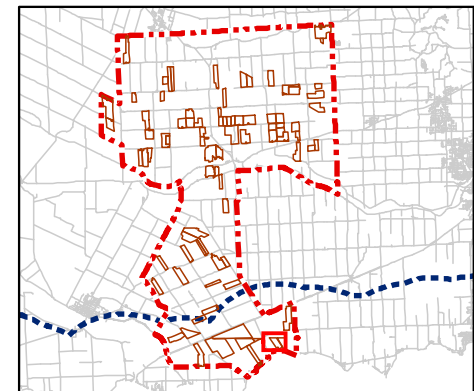
**Inset Maps for  
Property Line Setback – T48**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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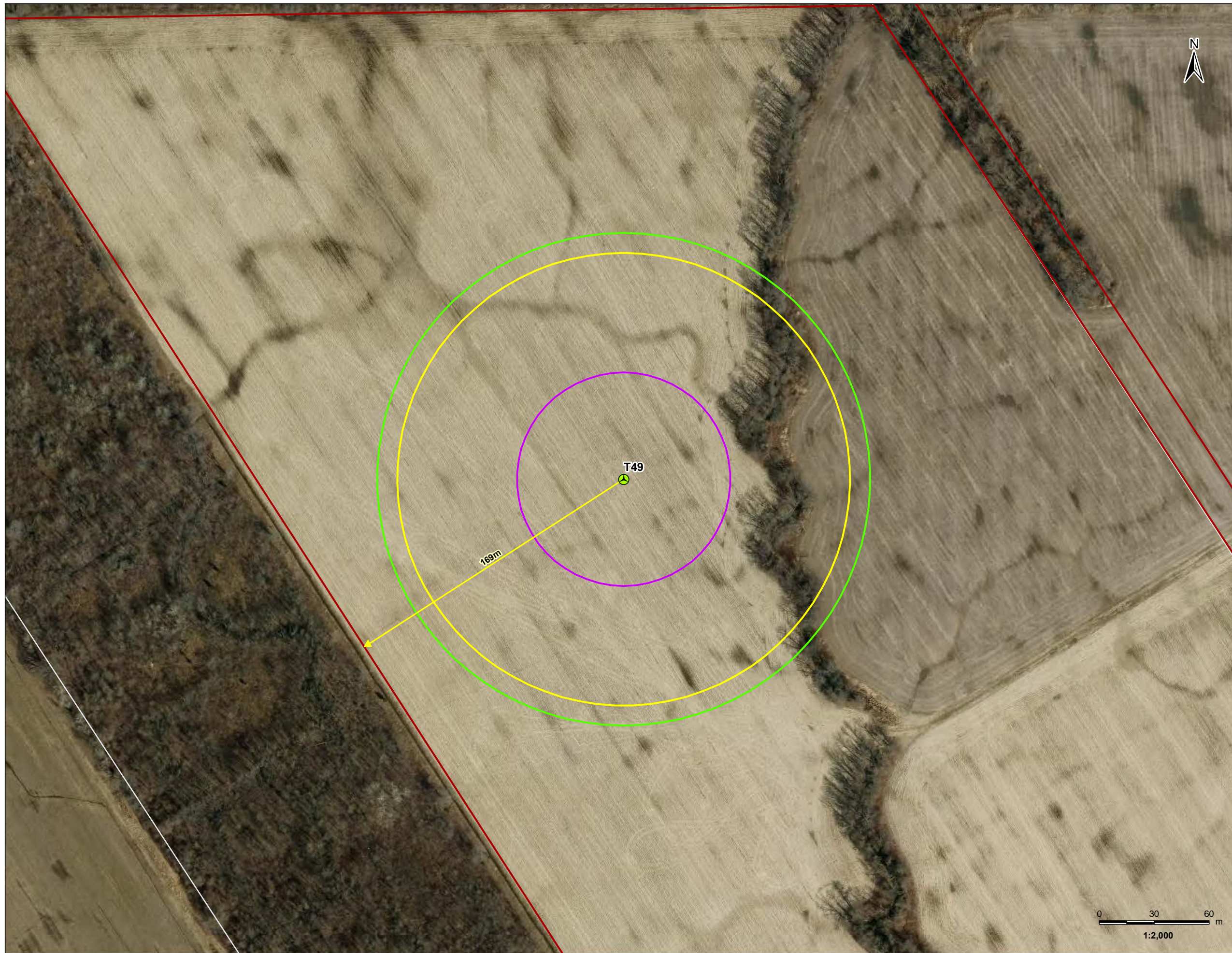
Figure No.  
 1.43

Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T49**

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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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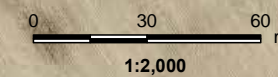
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Niagara Region Wind Farm

Figure No.

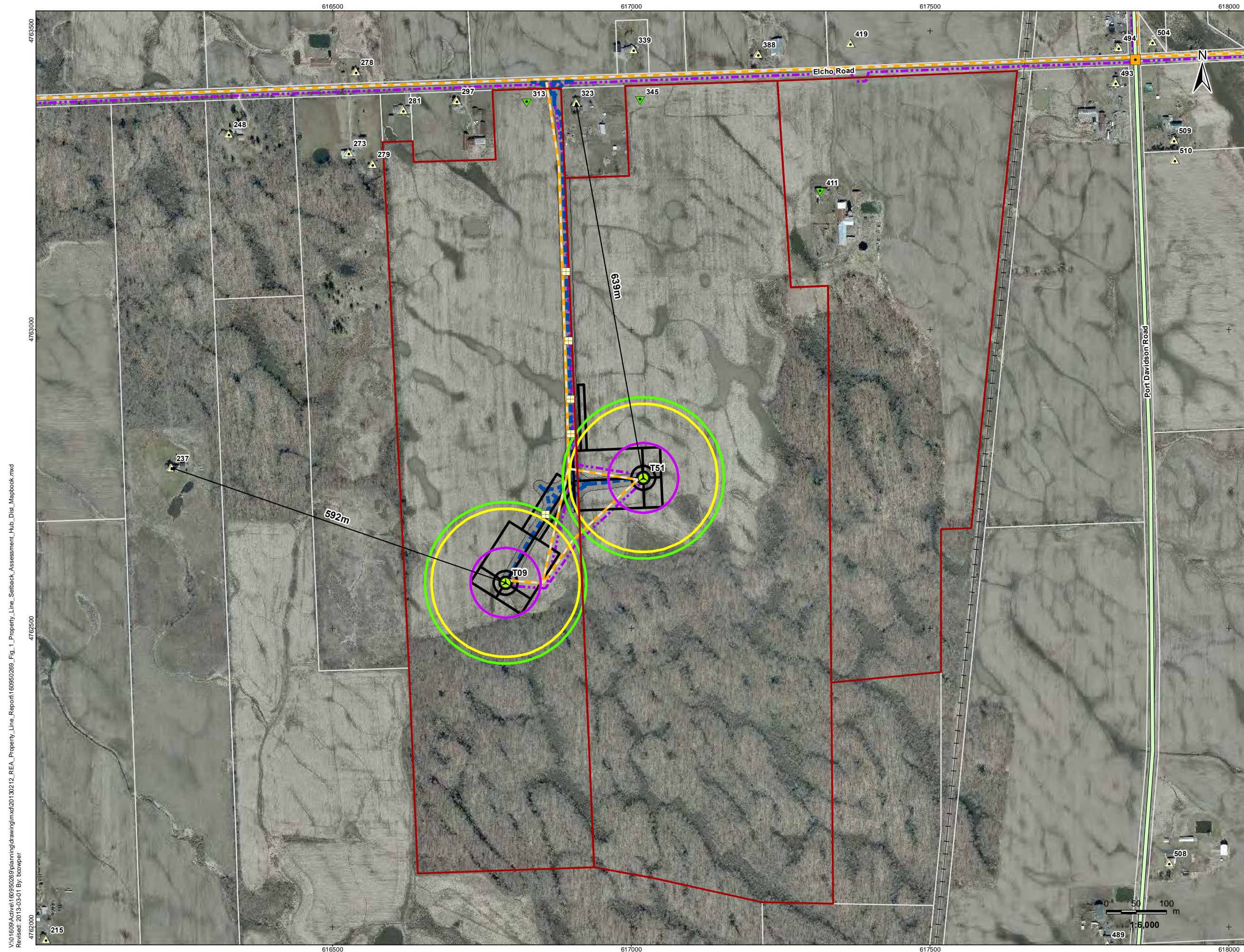
1.43a

Title

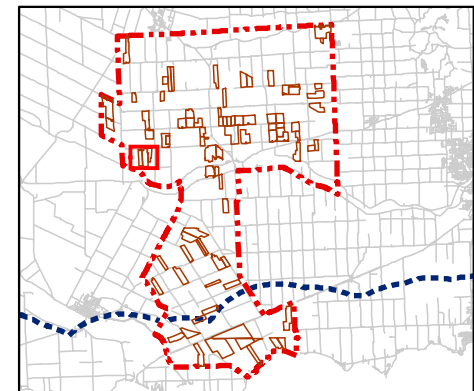
**Inset Maps for  
Property Line Setback – T49**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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Figure No.  
1.44

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T51**

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Revised: 2013-03-01 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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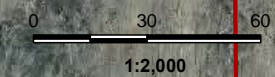
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Niagara Region Wind Farm

Figure No.

1.44a

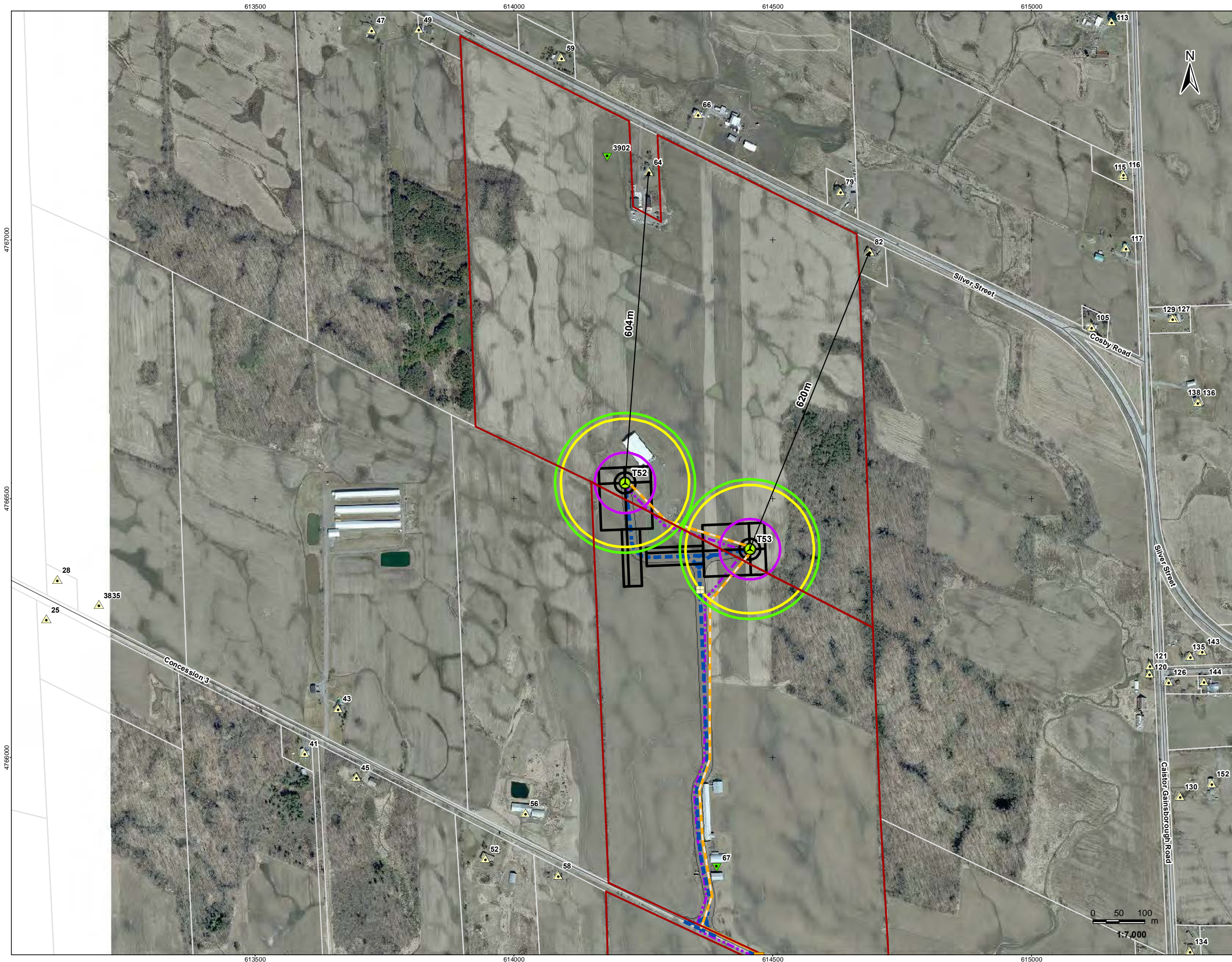
Title

**Inset Maps for  
Property Line Setback – T51**



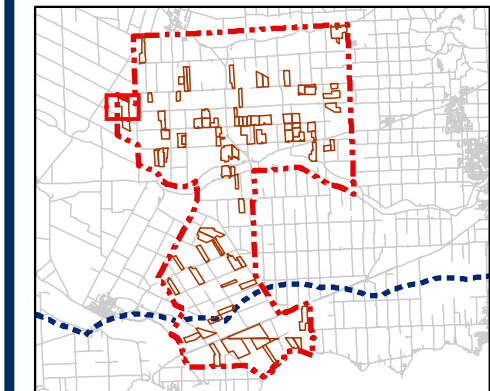


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 Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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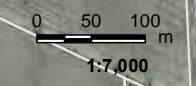


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160950269

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Figure No.  
 1.45

Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T52**





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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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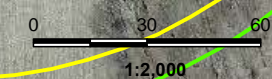
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Niagara Region Wind Farm

Figure No.

1.45a

Title

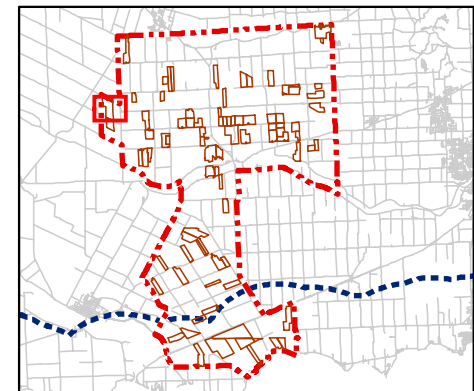
**Inset Maps for  
Property Line Setback – T52**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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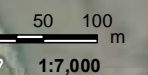


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Figure No.  
1.46

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T53**

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Revised: 2013-03-01 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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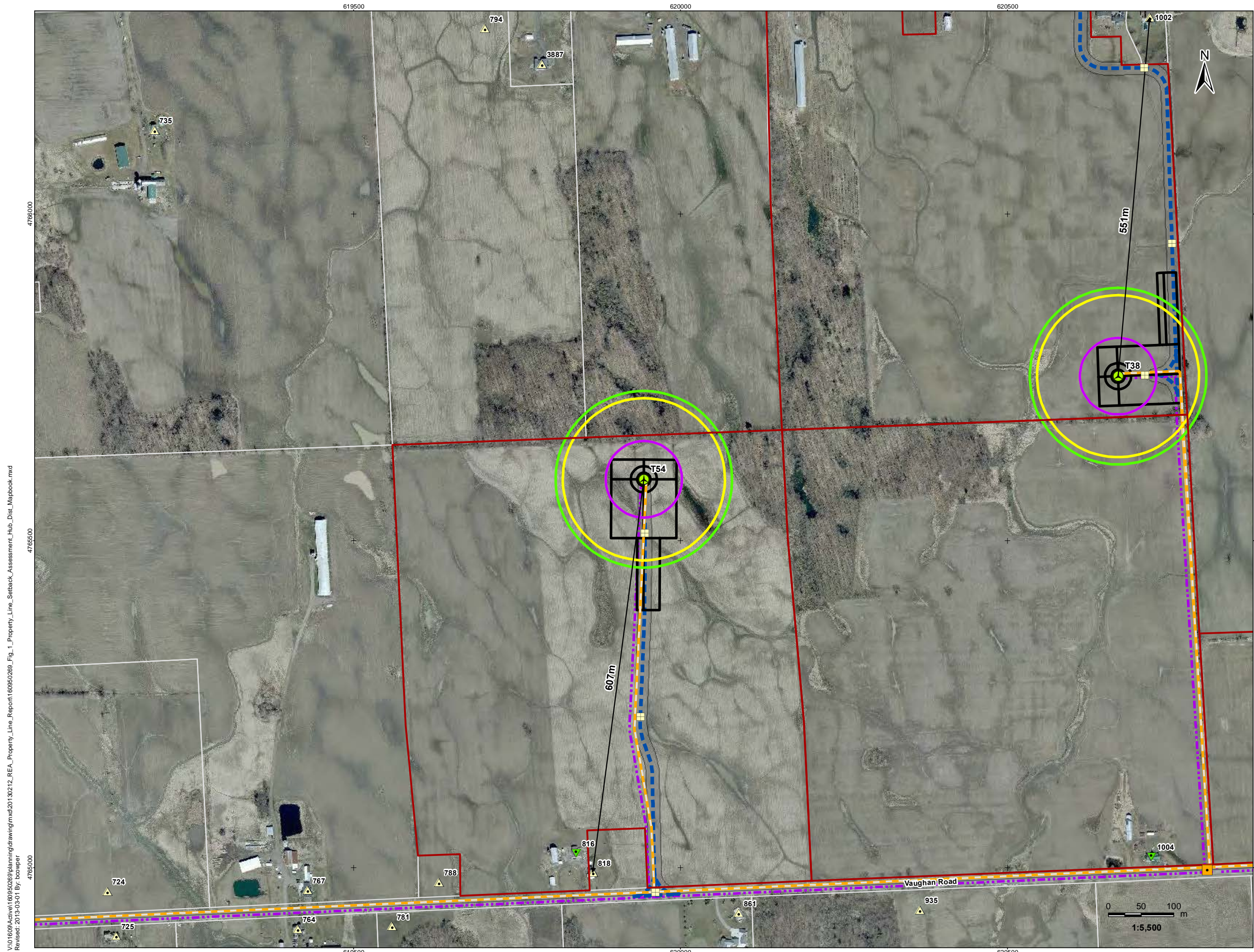
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1.46a

Title

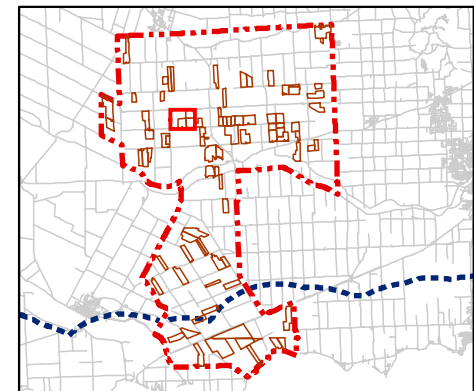
**Inset Maps for  
Property Line Setback – T53**





**Legend**

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



**Notes**

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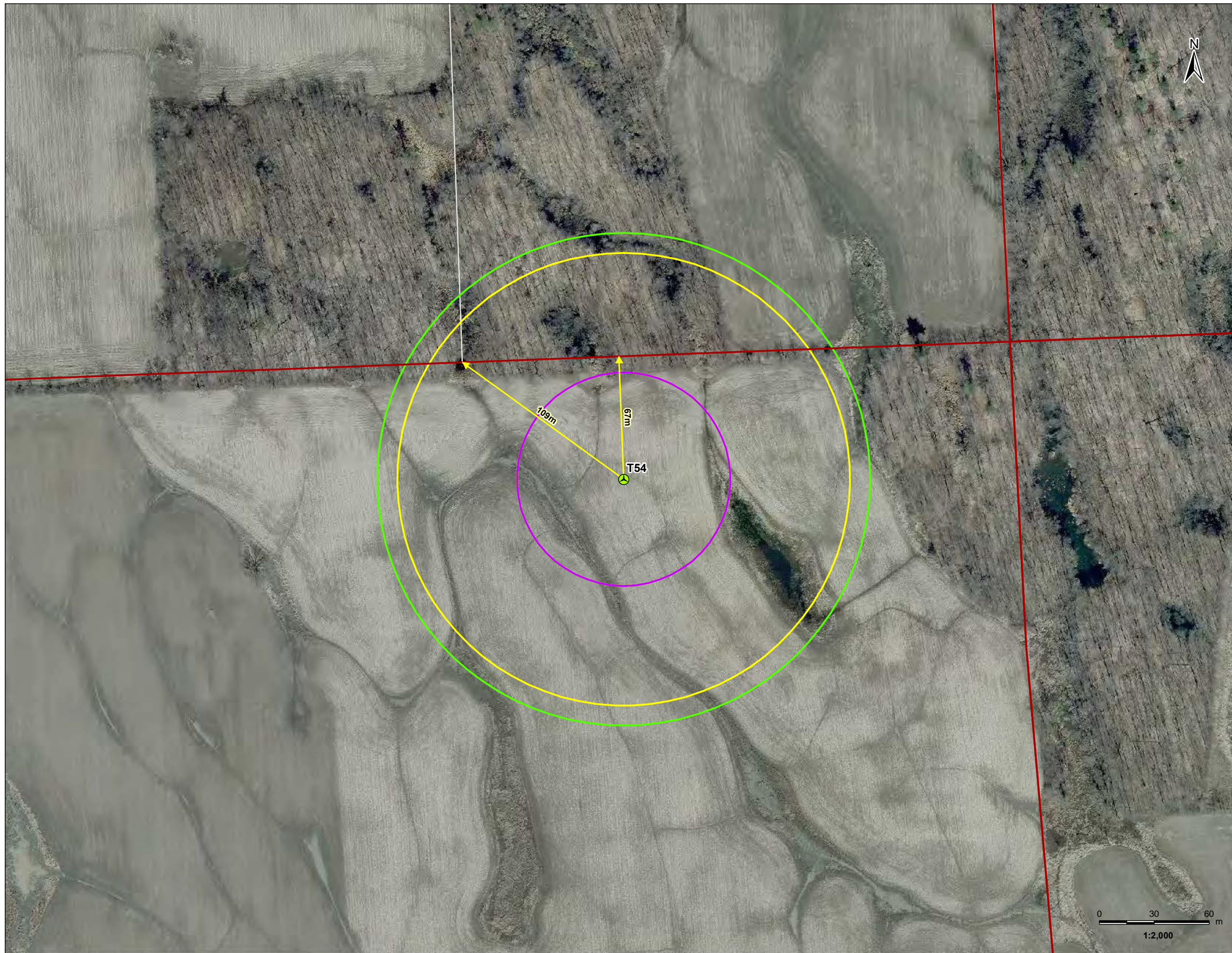
Figure No.  
1.47

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T54**













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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.47a

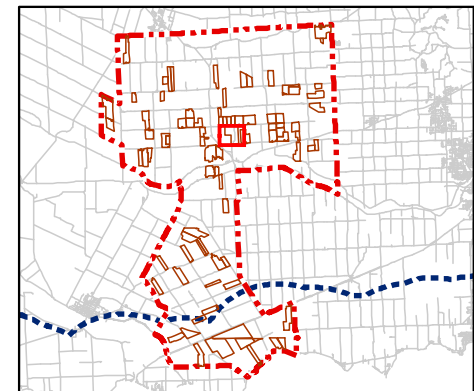
Title

**Inset Maps for  
Property Line Setback – T54**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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Figure No.  
 1.48

Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T55**













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 Revised: 2013-03-01 By: bcowper



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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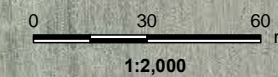
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

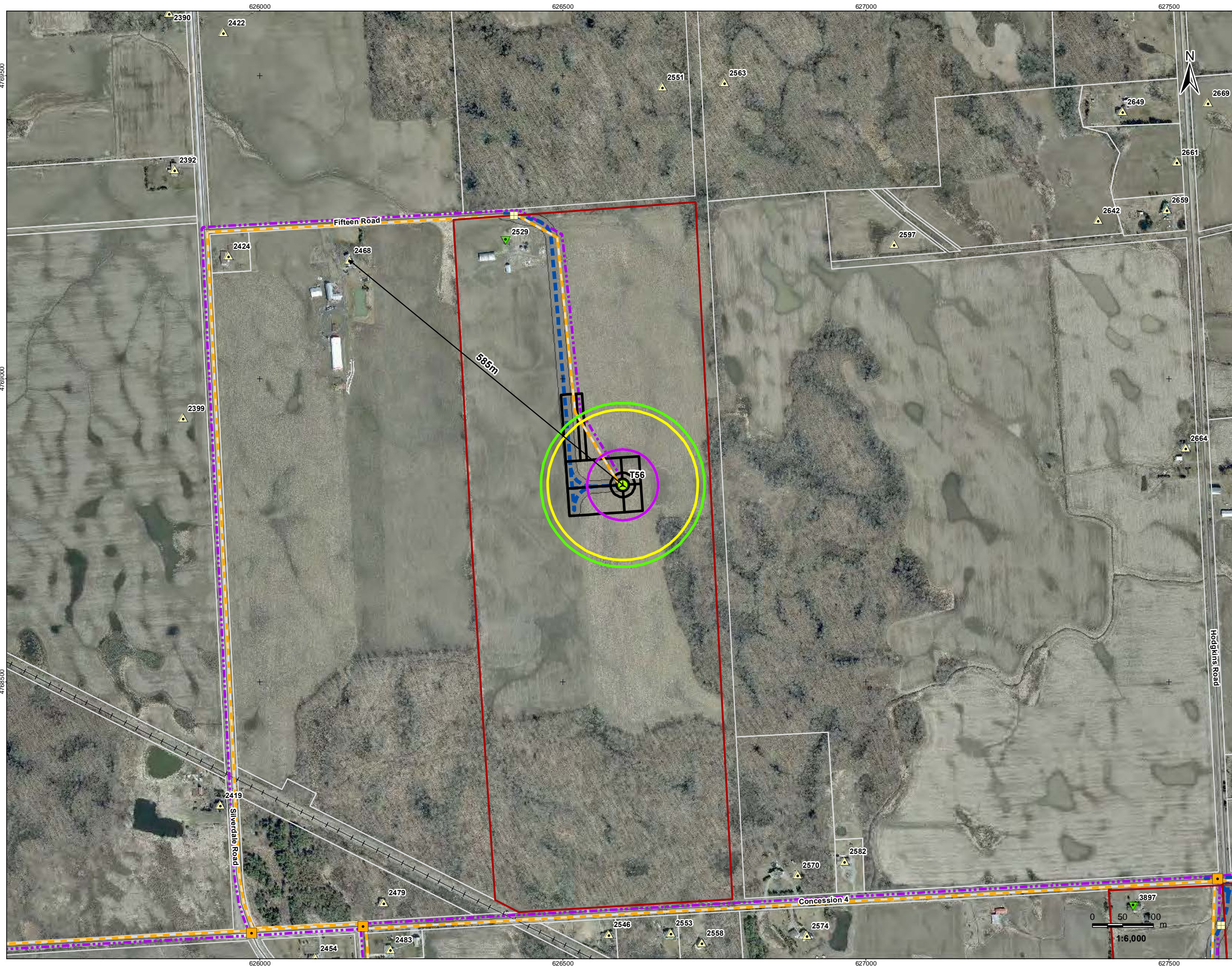
1.48a

Title

**Inset Maps for  
Property Line Setback – T55**

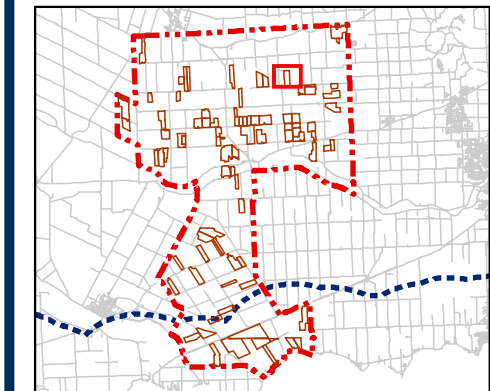






### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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Figure No.  
 1.49













Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T56**







### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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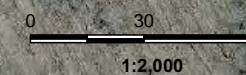
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

1.49a

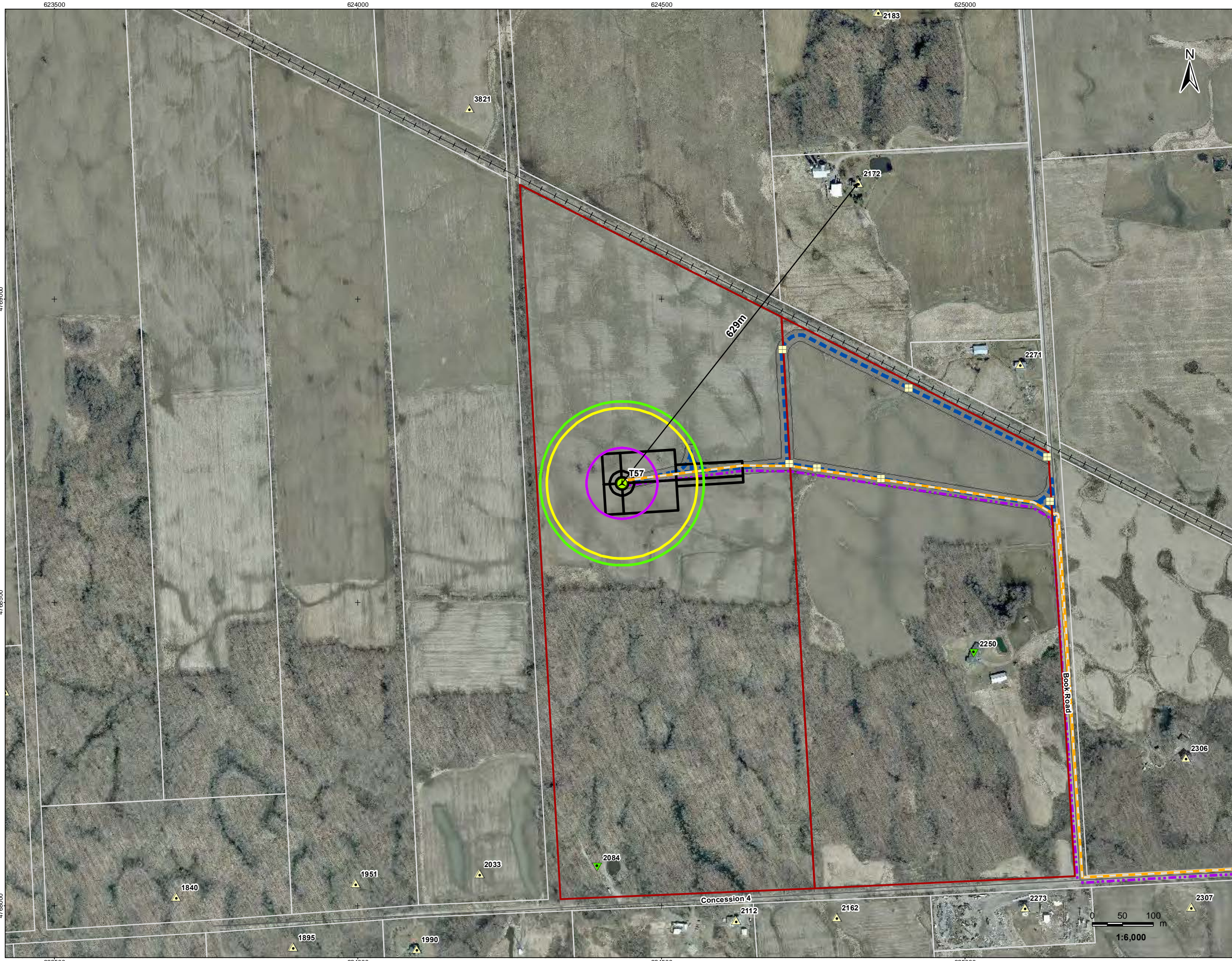
Title

**Inset Maps for  
Property Line Setback – T56**





















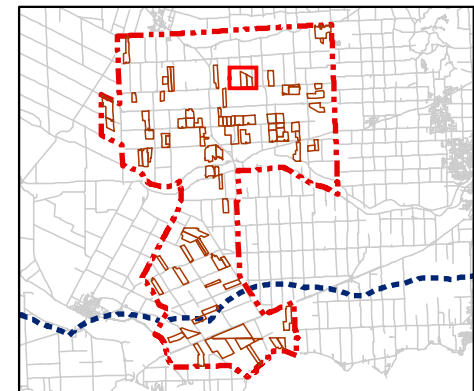


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Revised: 2013-03-01 By: bcooper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Junction Box
-  Proposed Culvert
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Preferred Transmission Line Route
-  Alternate Transmission Route
-  Potential Access Road
-  Collector Lines - Underground or Overhead
-  Fibre Optic Line
-  Temporary Laydown Area
-  Access Road 20m Construction Area



### Notes

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Figure No.

1.50

Title













**Overview Maps for Property  
Line Setback Assessment –  
T57**



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Revised: 2013-03-01 By: bcooper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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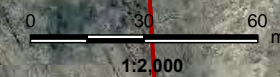
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

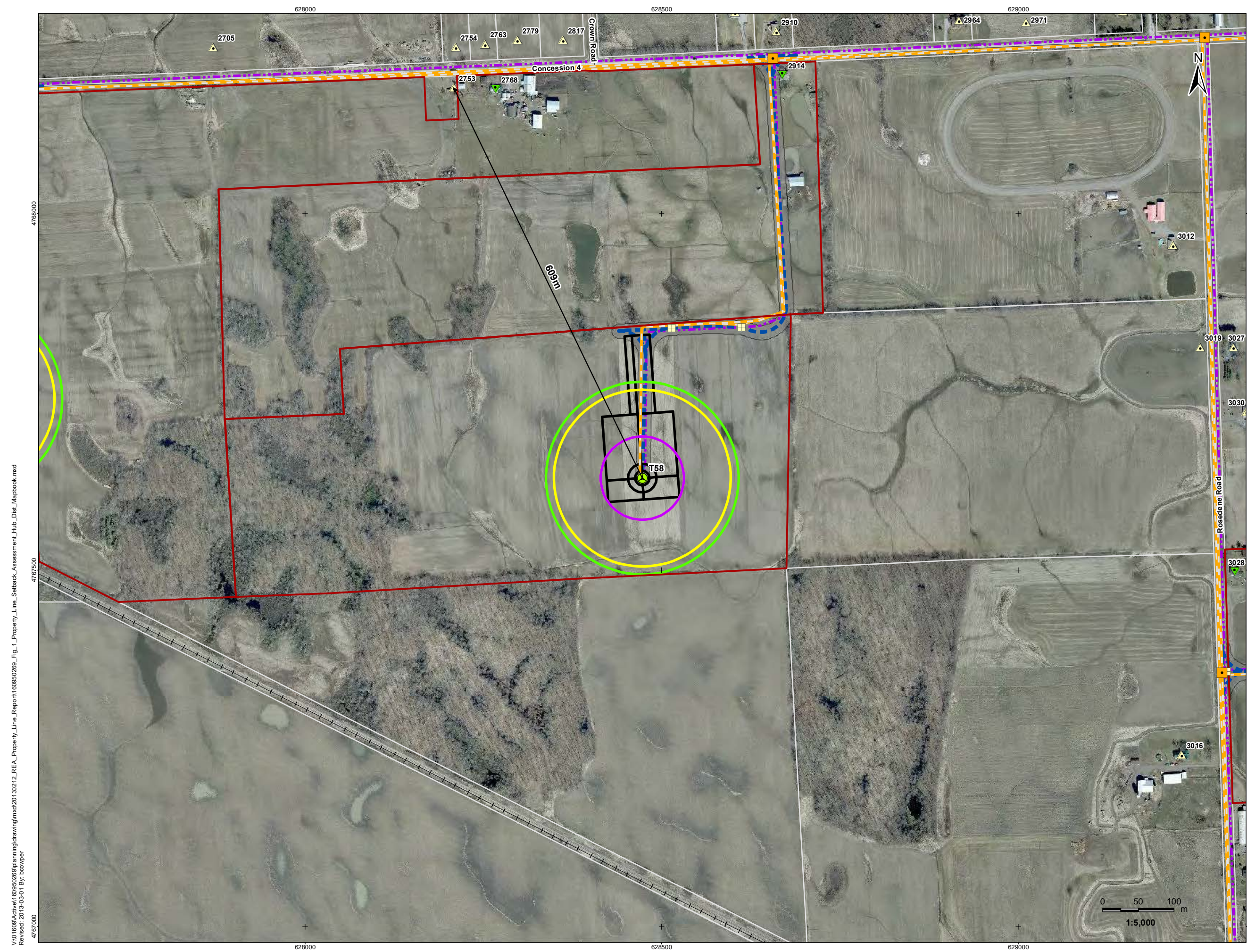
1.50a

Title

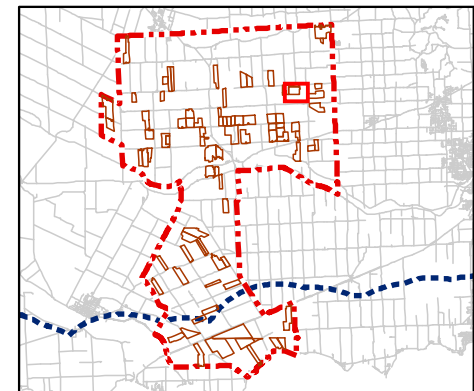
**Inset Maps for  
Property Line Setback – T57**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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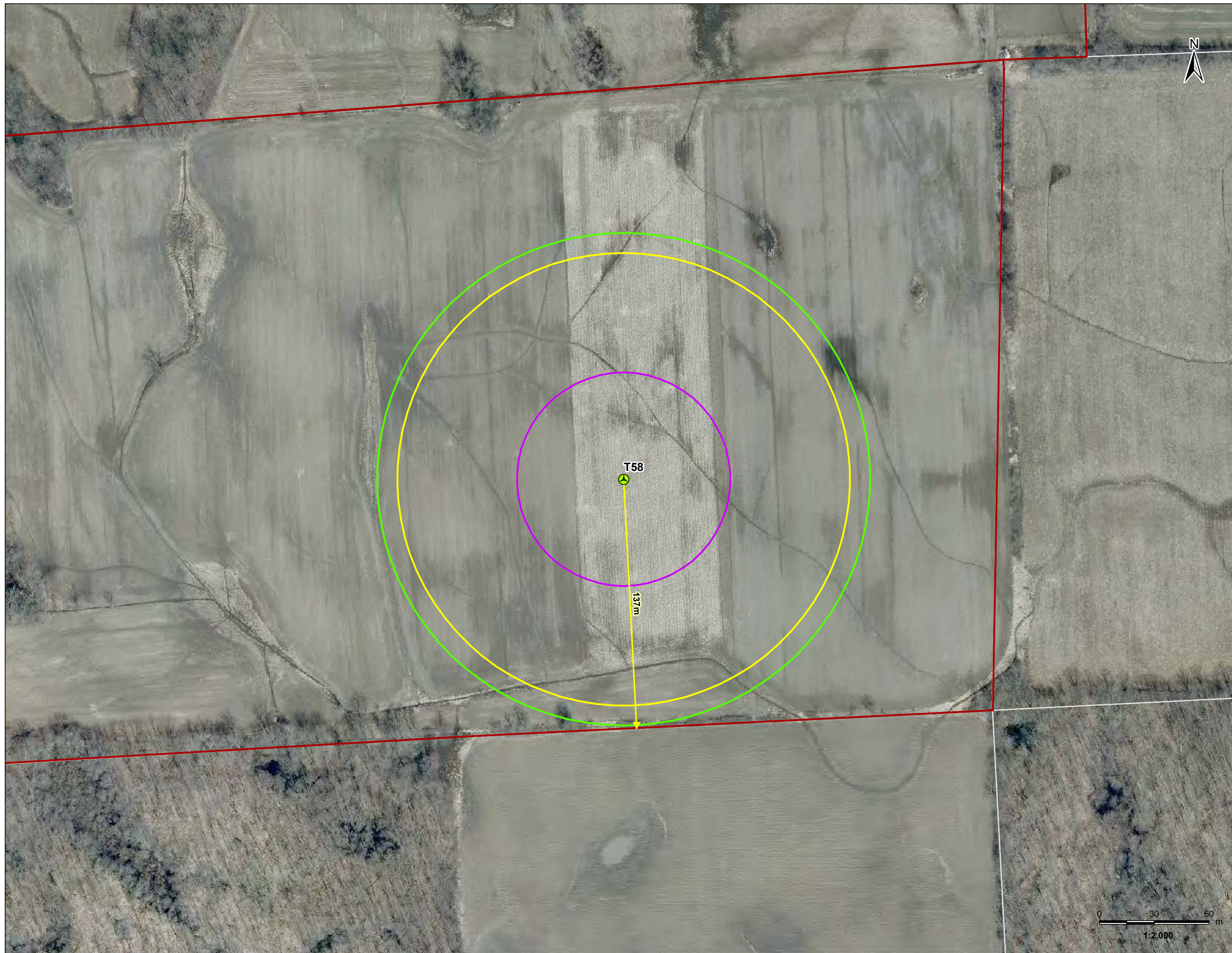
Figure No.  
1.51

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


Title  
**Overview Maps for Property  
Line Setback Assessment –  
T58**

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 Revised: 2013-03-01 By: bcooper





### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

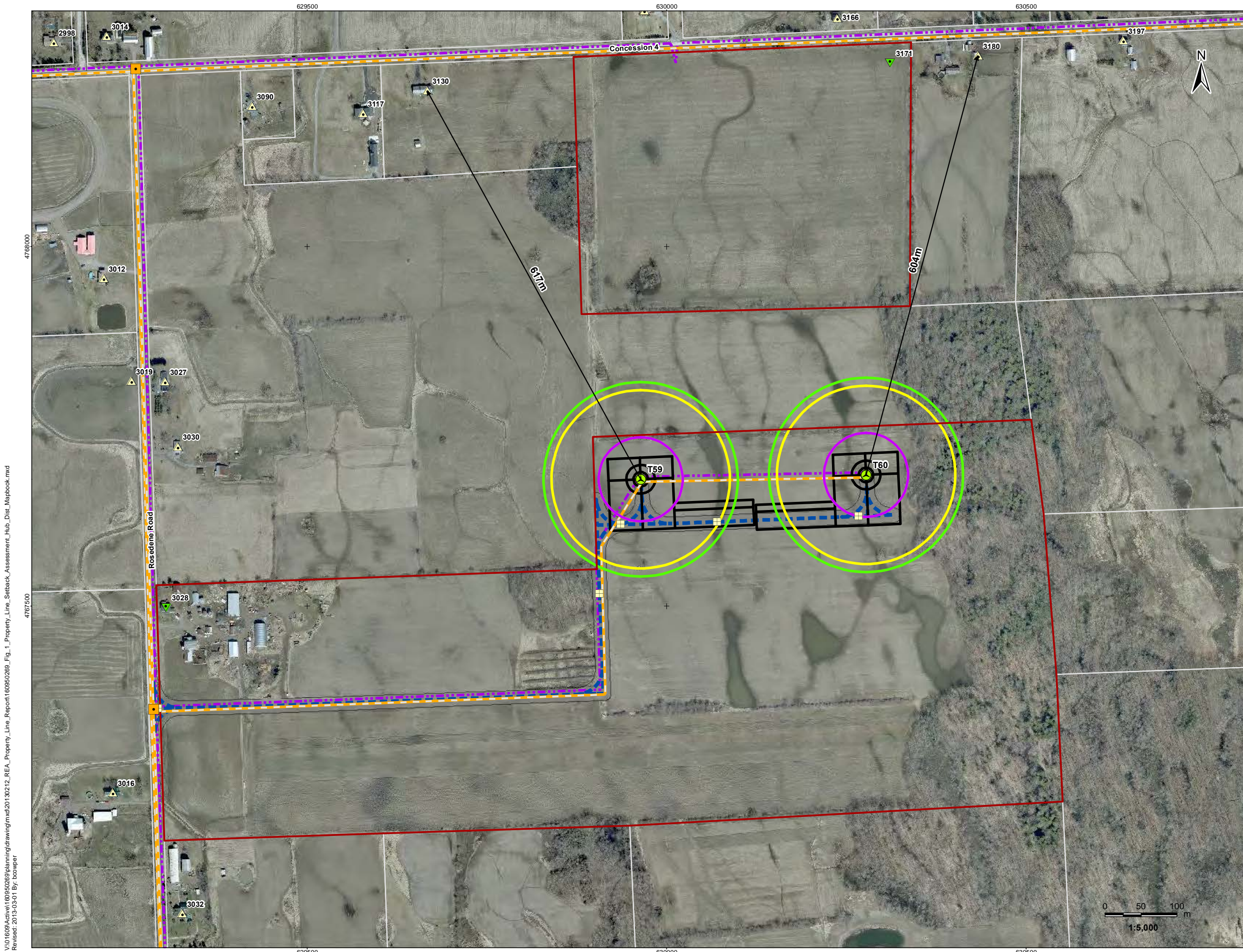
1.51a

Title

**Inset Maps for  
Property Line Setback – T58**

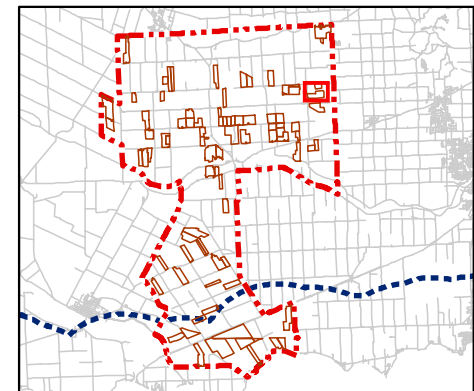






**Legend**

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



**Notes**

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Figure No.  
1.52

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T59**















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Revised: 2013-03-01 By: bcowper



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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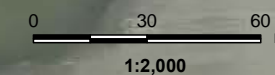
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

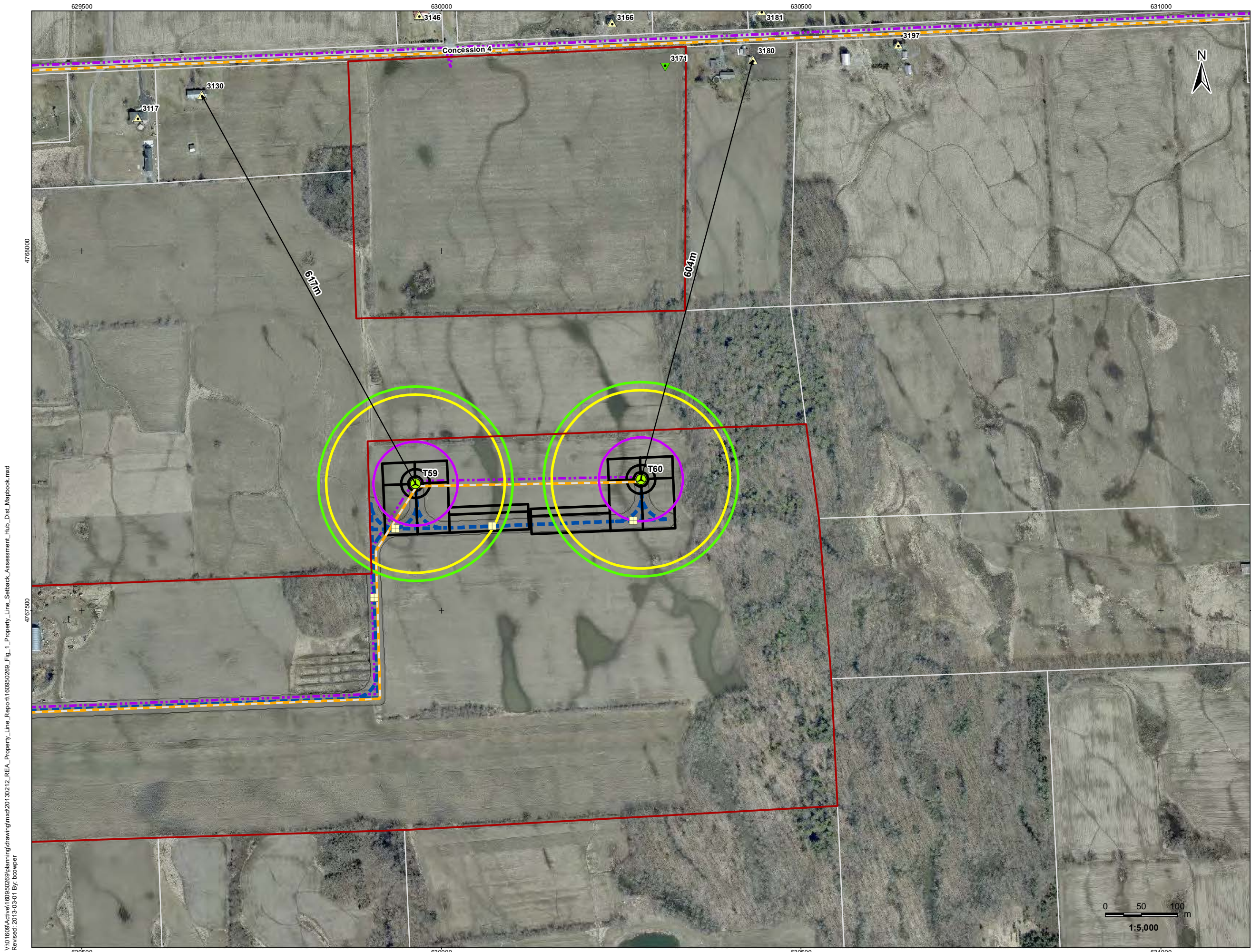
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Title

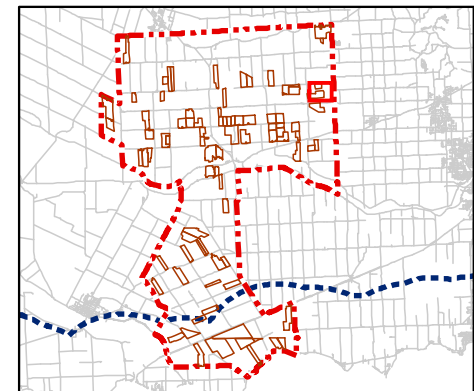
**Inset Maps for  
Property Line Setback – T59**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - - - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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Figure No.  
1.53

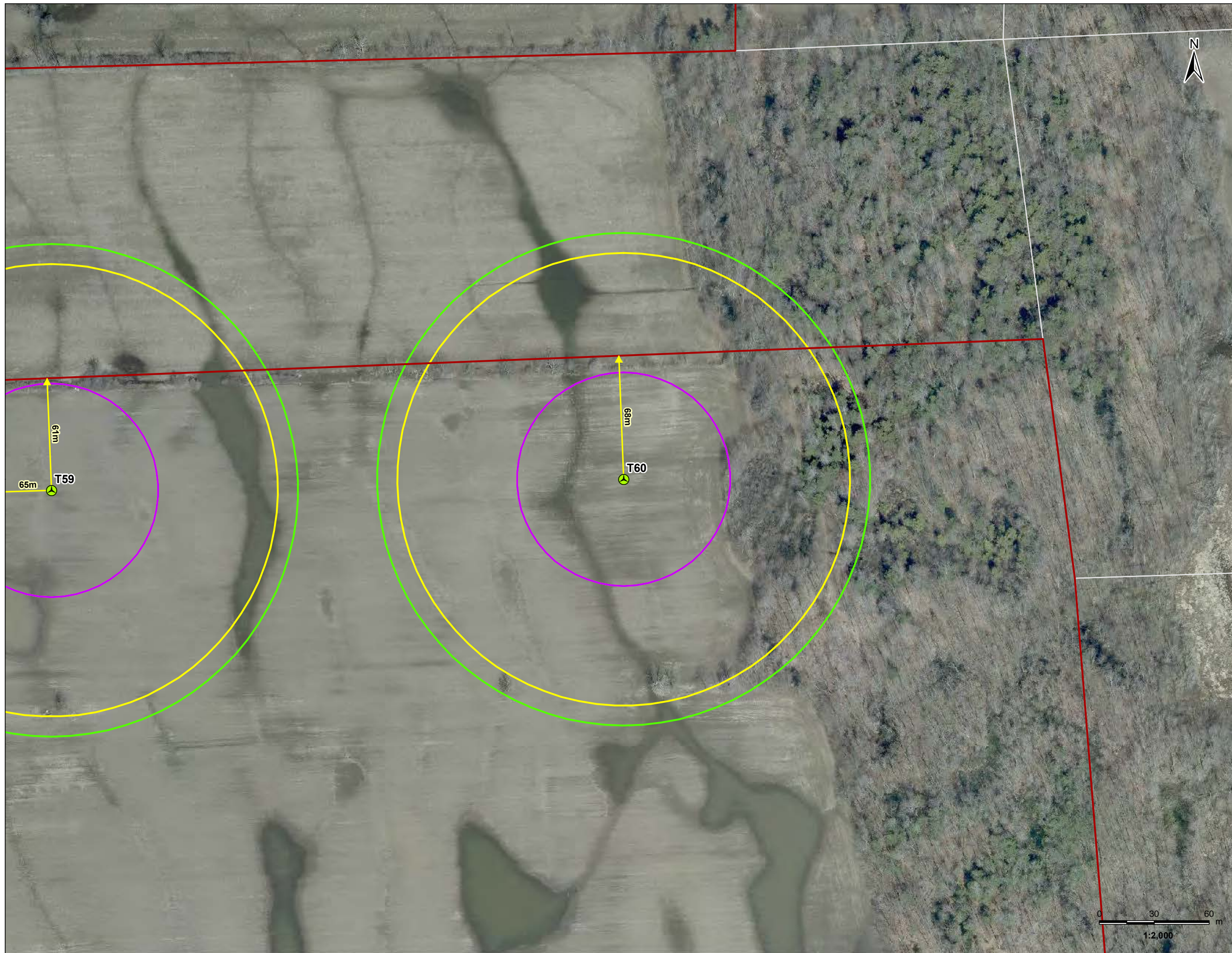
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Title  
**Overview Maps for Property  
Line Setback Assessment –  
T60**

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Revised: 2013-03-01 By: bcowper



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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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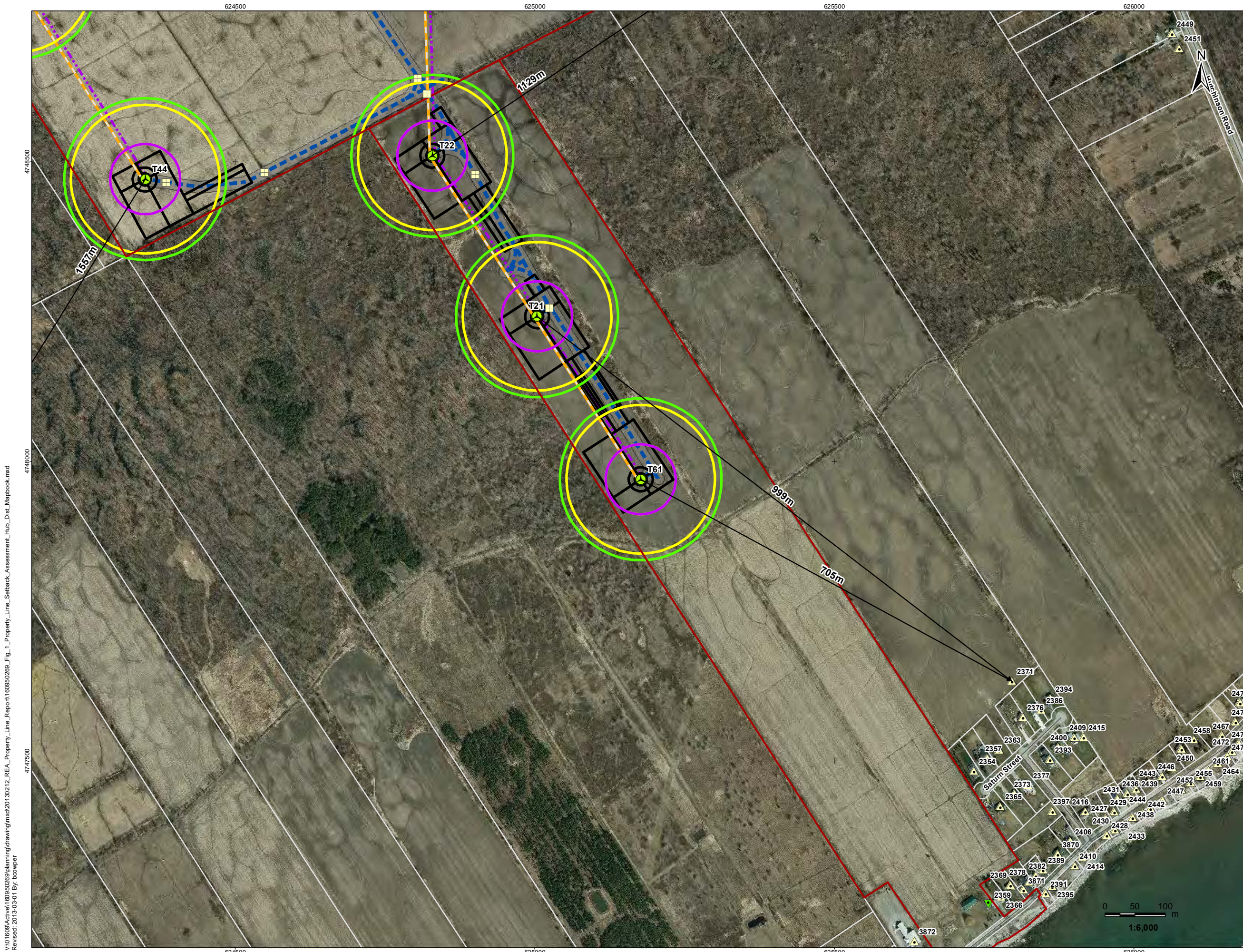
Figure No.

1.53a

Title

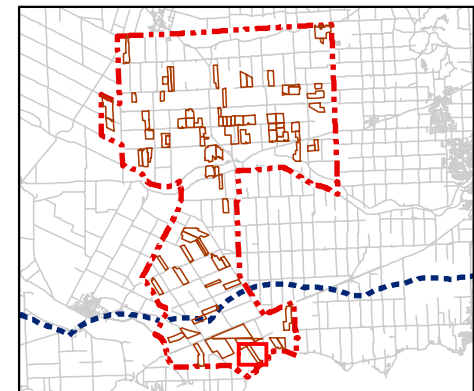
**Inset Maps for  
Property Line Setback – T60**





**Legend**

- Project Study Area
- Participating Property
- Property Boundary
- ⊙ Proposed Turbine Location
- ⊕ Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



**Notes**

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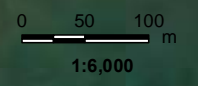
**Stantec**

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160950269

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Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.  
**1.54**

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T61**



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 Revised: 2013-03-01 By: bcowper





### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road



### Notes

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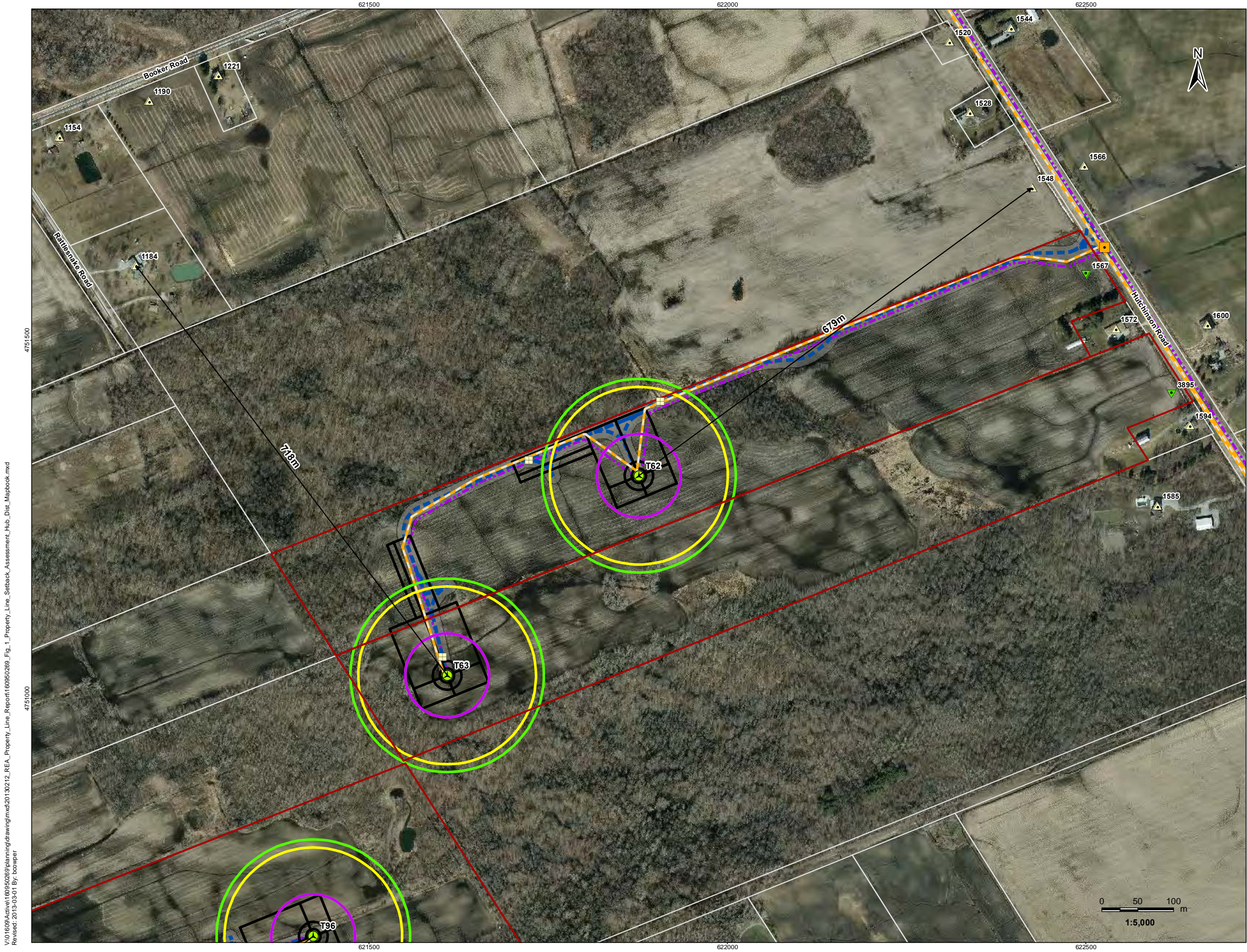
Client/Project  
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.  
**1.54a**

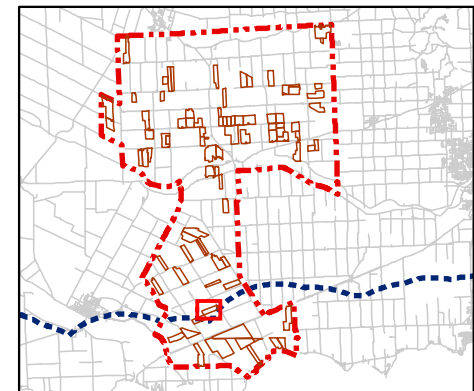
Title  
**Inset Maps for  
Property Line Setback – T61**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - - - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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Figure No.  
 1.55

Title  
**Overview Maps for Property Line Setback Assessment – T62**













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Revised: 2013-03-01 By: bcooper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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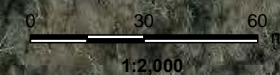
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

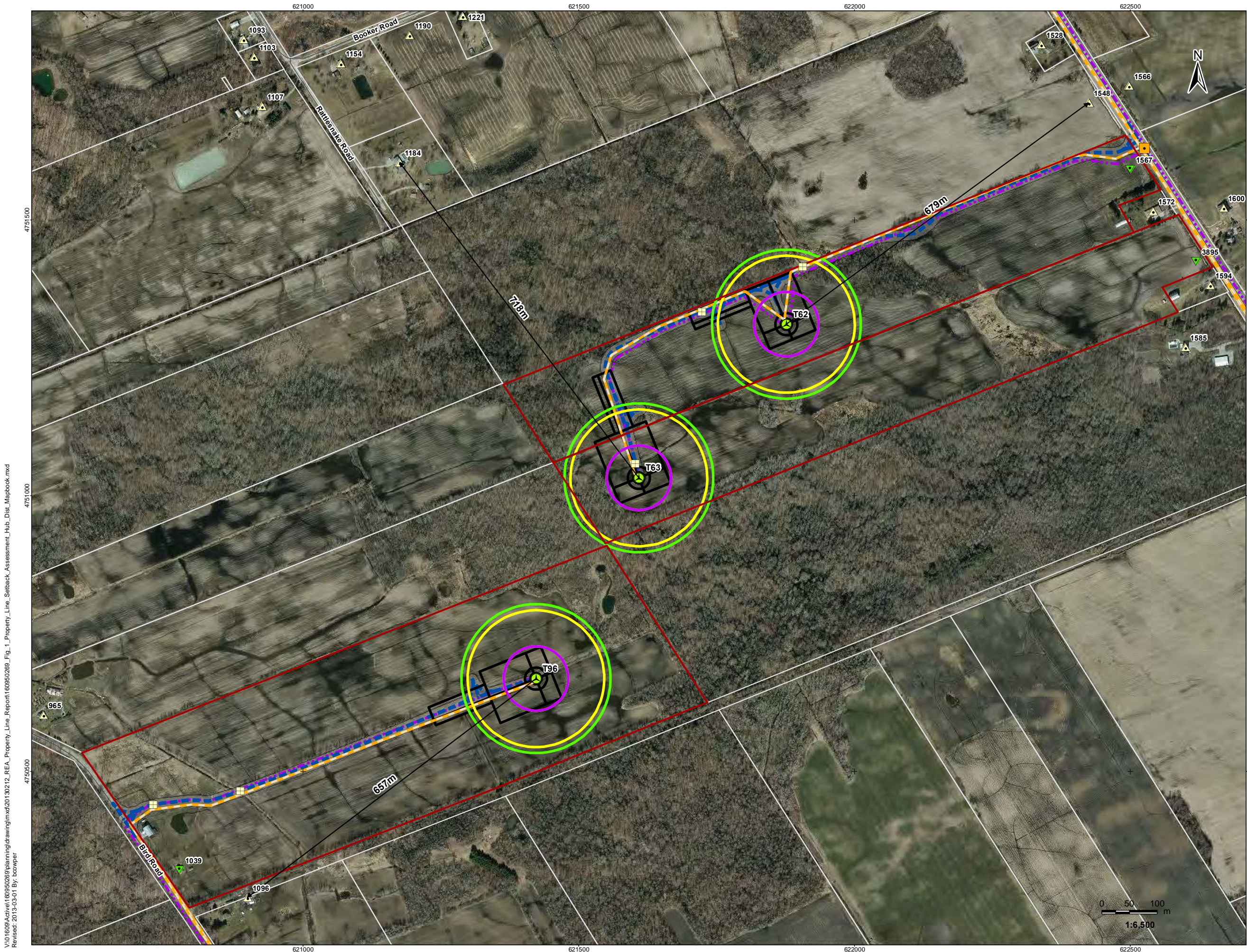
1.55a

Title

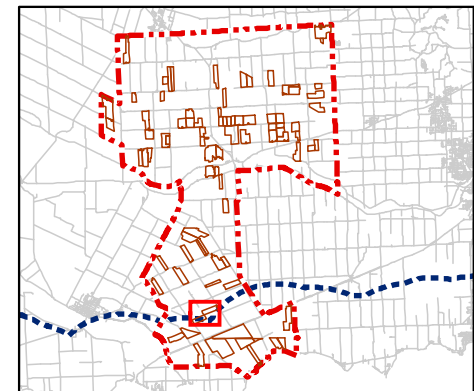
**Inset Maps for  
Property Line Setback – T62**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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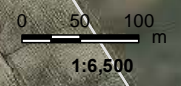
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160950269

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Niagara Region Wind Farm

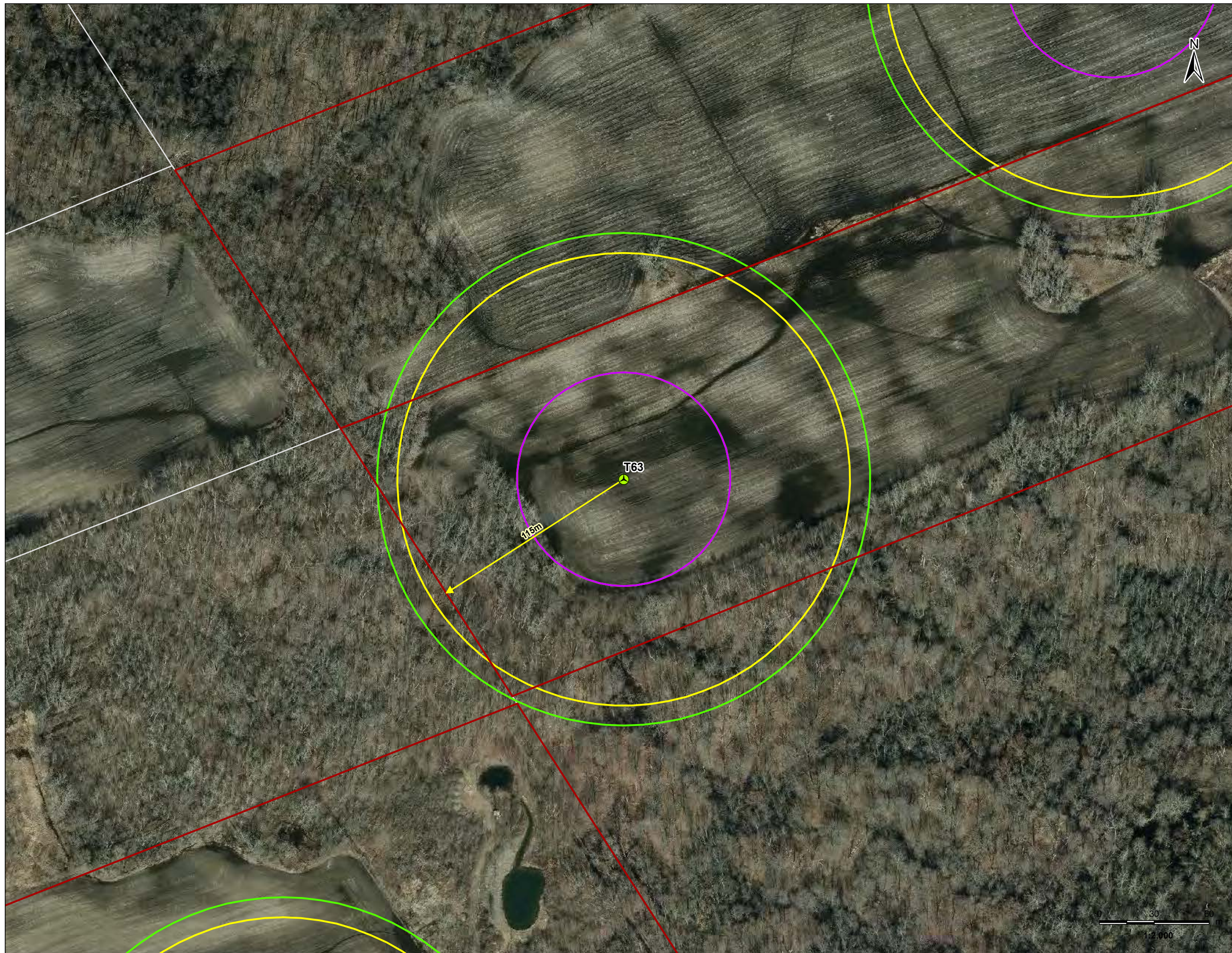
Figure No.  
1.56

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T63**













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Revised: 2013-03-01 By: bcowper







### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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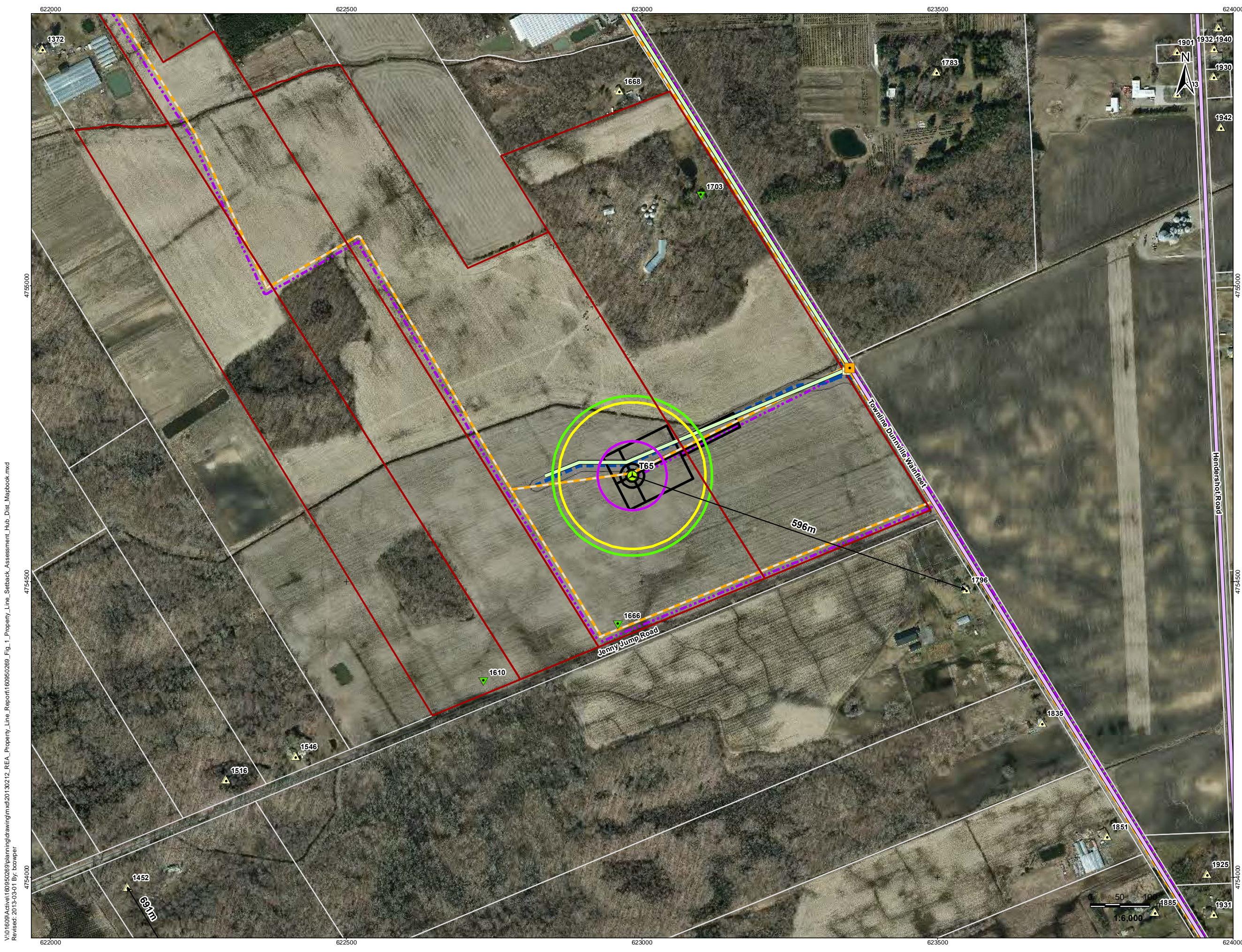
Figure No.

1.56a

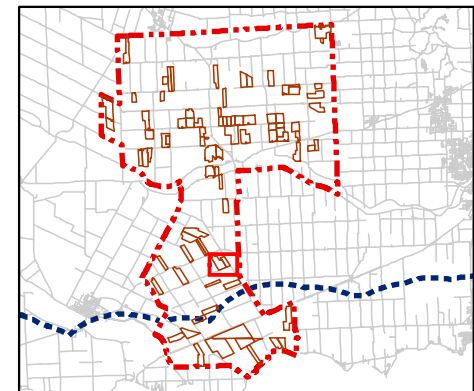
Title

**Inset Maps for  
Property Line Setback – T63**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - Non-Participating Receptor
  - Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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Figure No.  
1.57

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Title  
**Overview Maps for Property  
Line Setback Assessment –  
T65**













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 Revised: 2013-03-01 By: bcooper



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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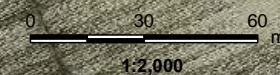
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

1.57a

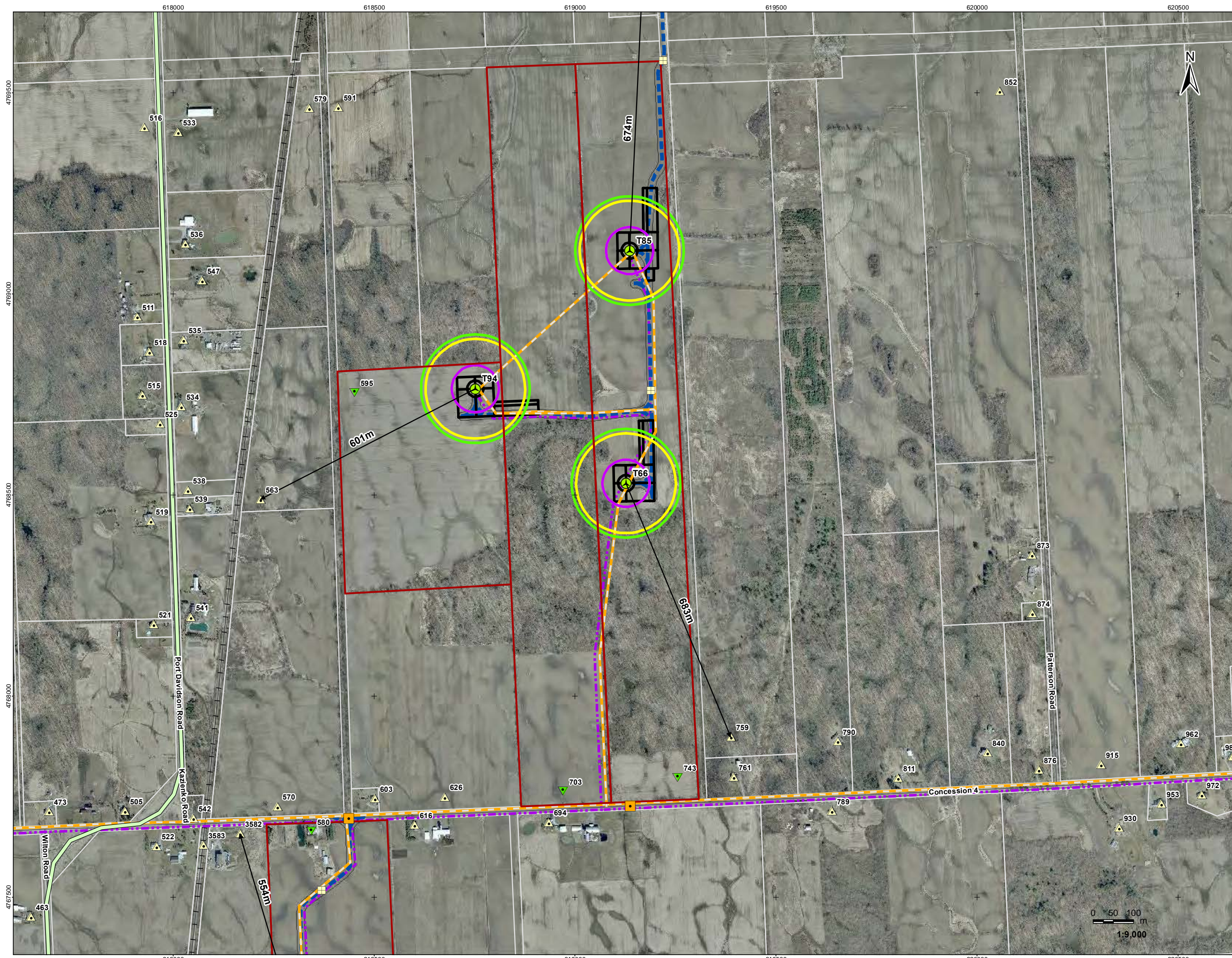
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**Inset Maps for  
Property Line Setback – T65**



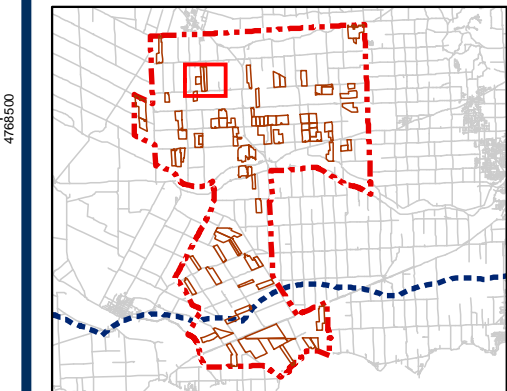


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 Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- - - Potential Access Road
- Collector Lines - Underground or Overhead
- - - Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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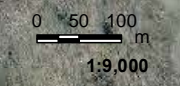
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Figure No.  
 1.58

Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T66**

















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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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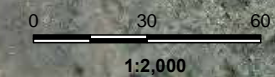
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

1.58a

Title

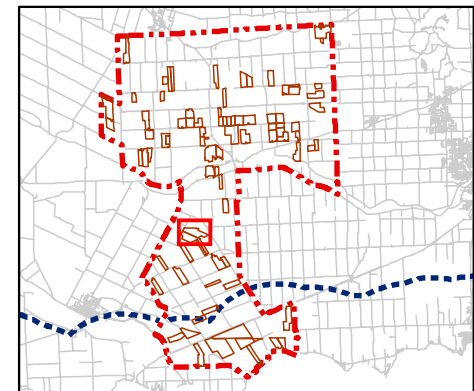
**Inset Maps for  
Property Line Setback – T66**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - Non-Participating Receptor
  - Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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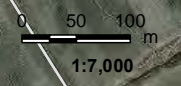
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Figure No.  
1.59

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Title  
**Overview Maps for Property  
Line Setback Assessment –  
T72**













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 Revised: 2013-03-01 By: bcowper







### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

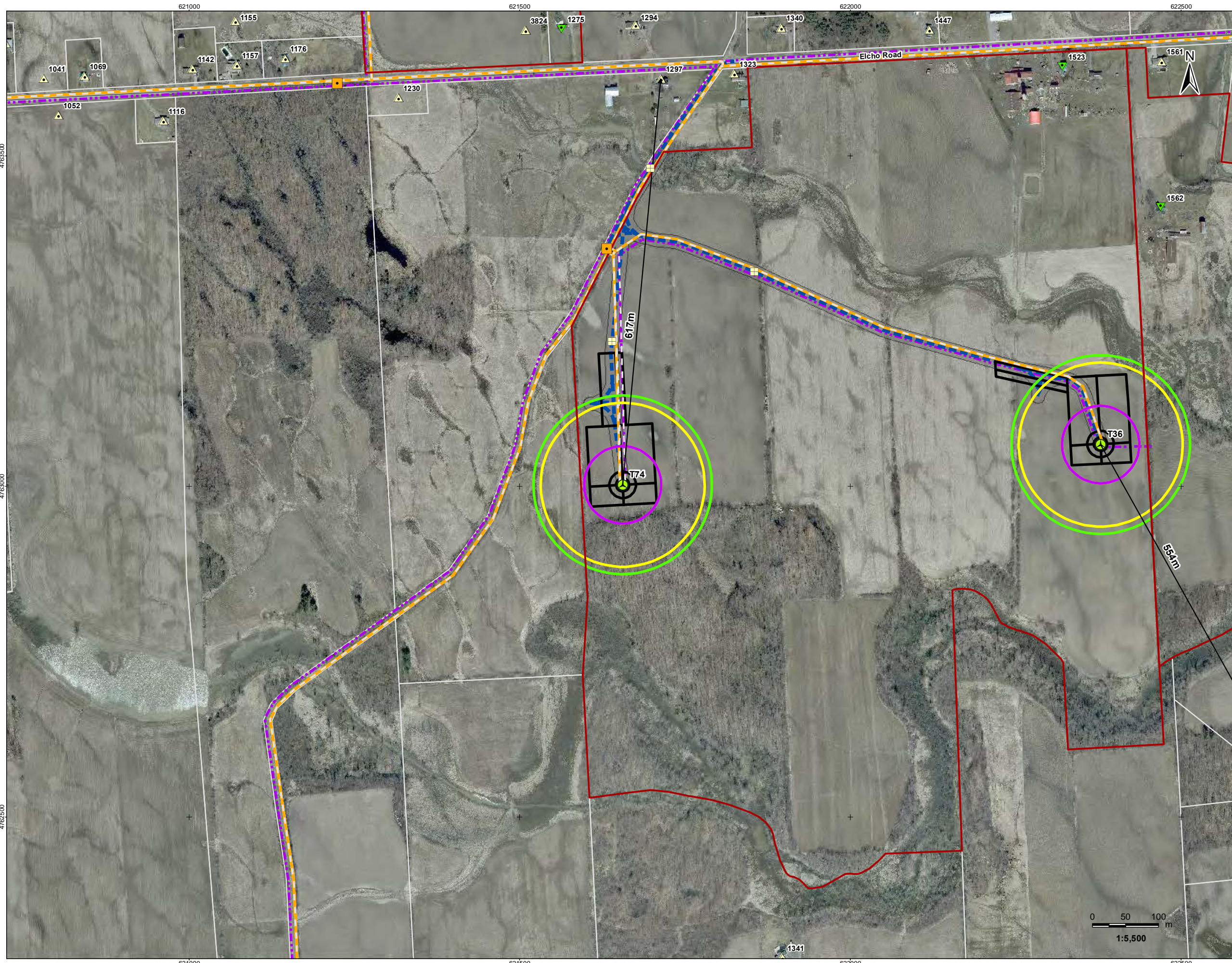
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Title

**Inset Maps for  
Property Line Setback – T72**

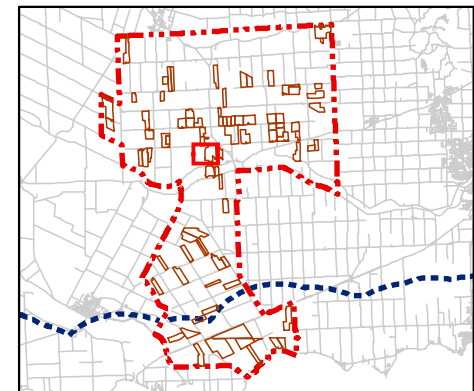


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 Revised: 2013-03-01 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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Figure No.  
1.60

Title













**Overview Maps for Property  
Line Setback Assessment –  
T74**



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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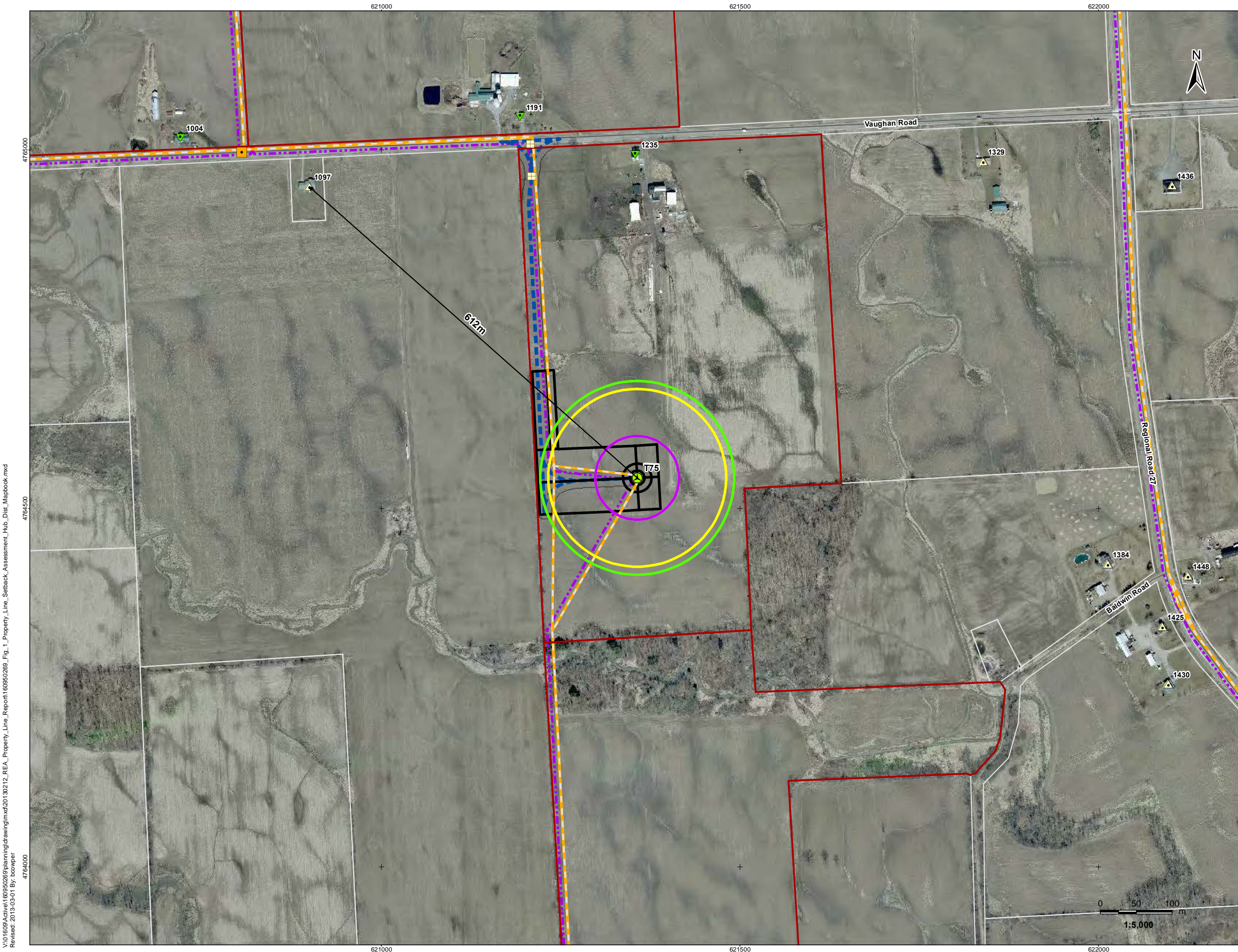
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1.60a

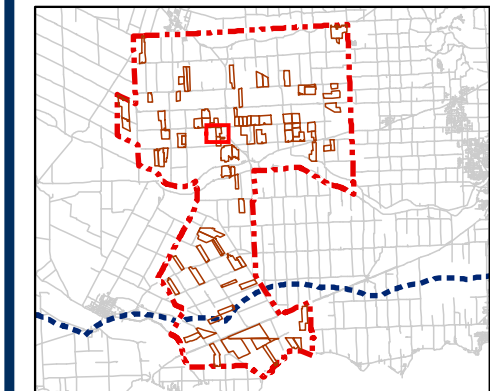
Title

**Inset Maps for  
Property Line Setback – T74**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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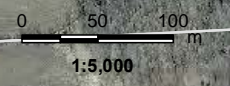


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Figure No.  
 1.61

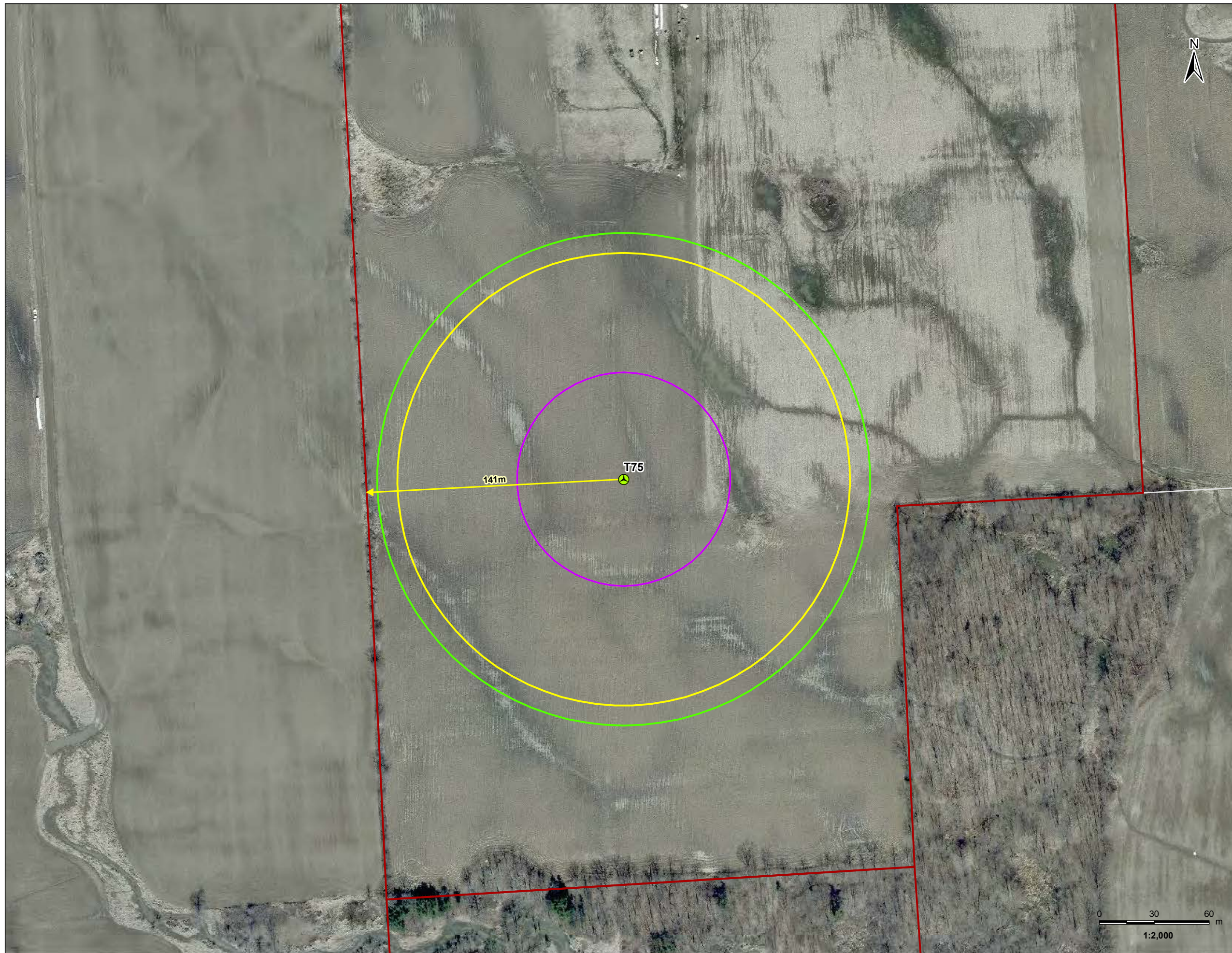
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**Overview Maps for Property Line Setback Assessment – T75**

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






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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

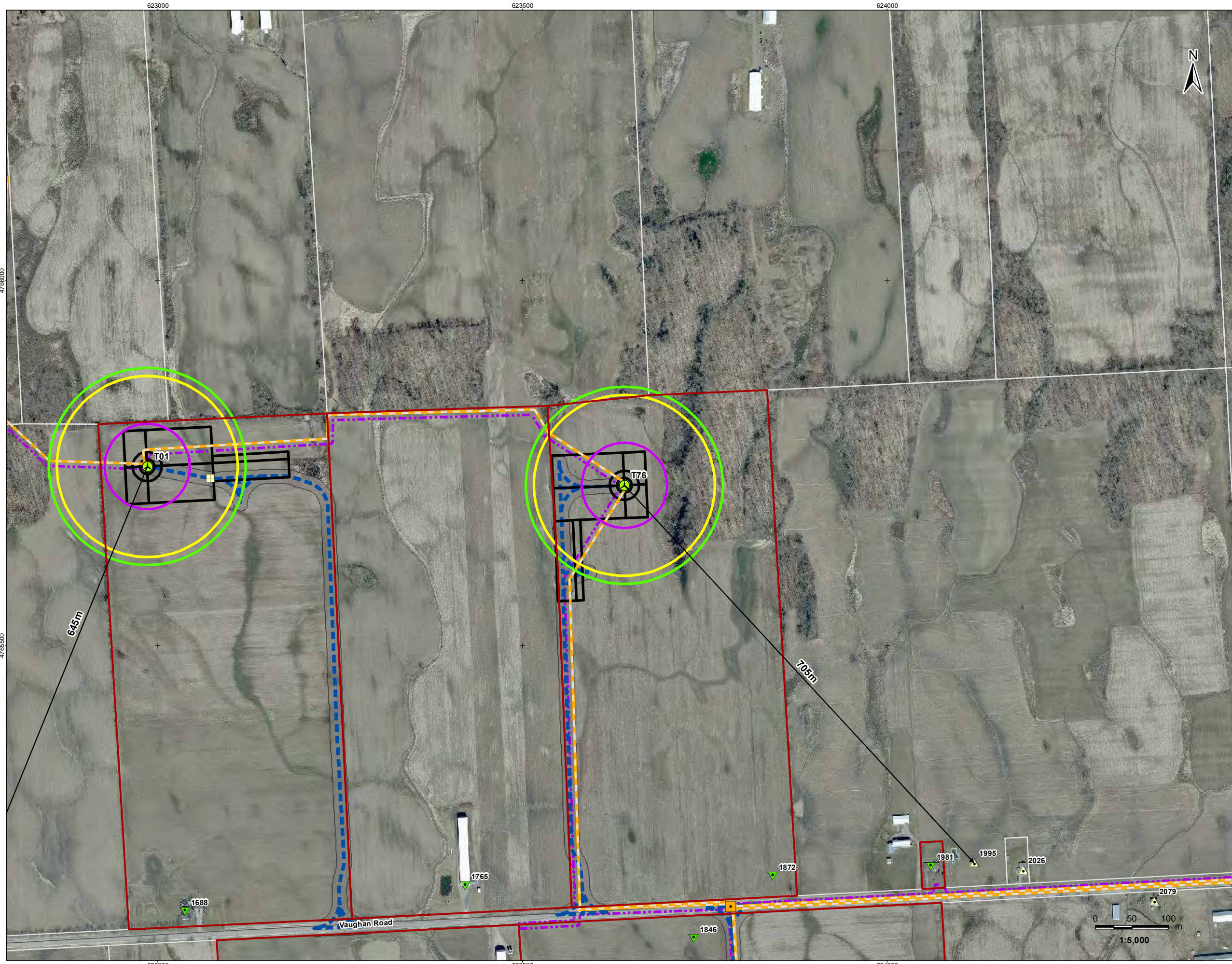
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Title

**Inset Maps for  
Property Line Setback – T75**

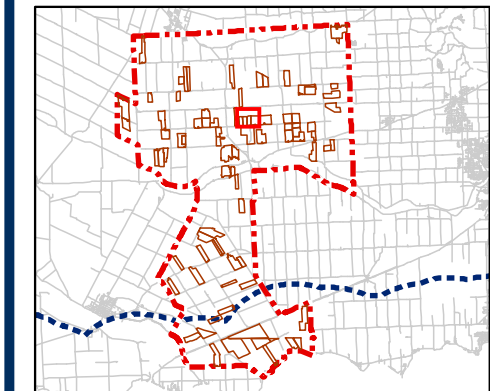


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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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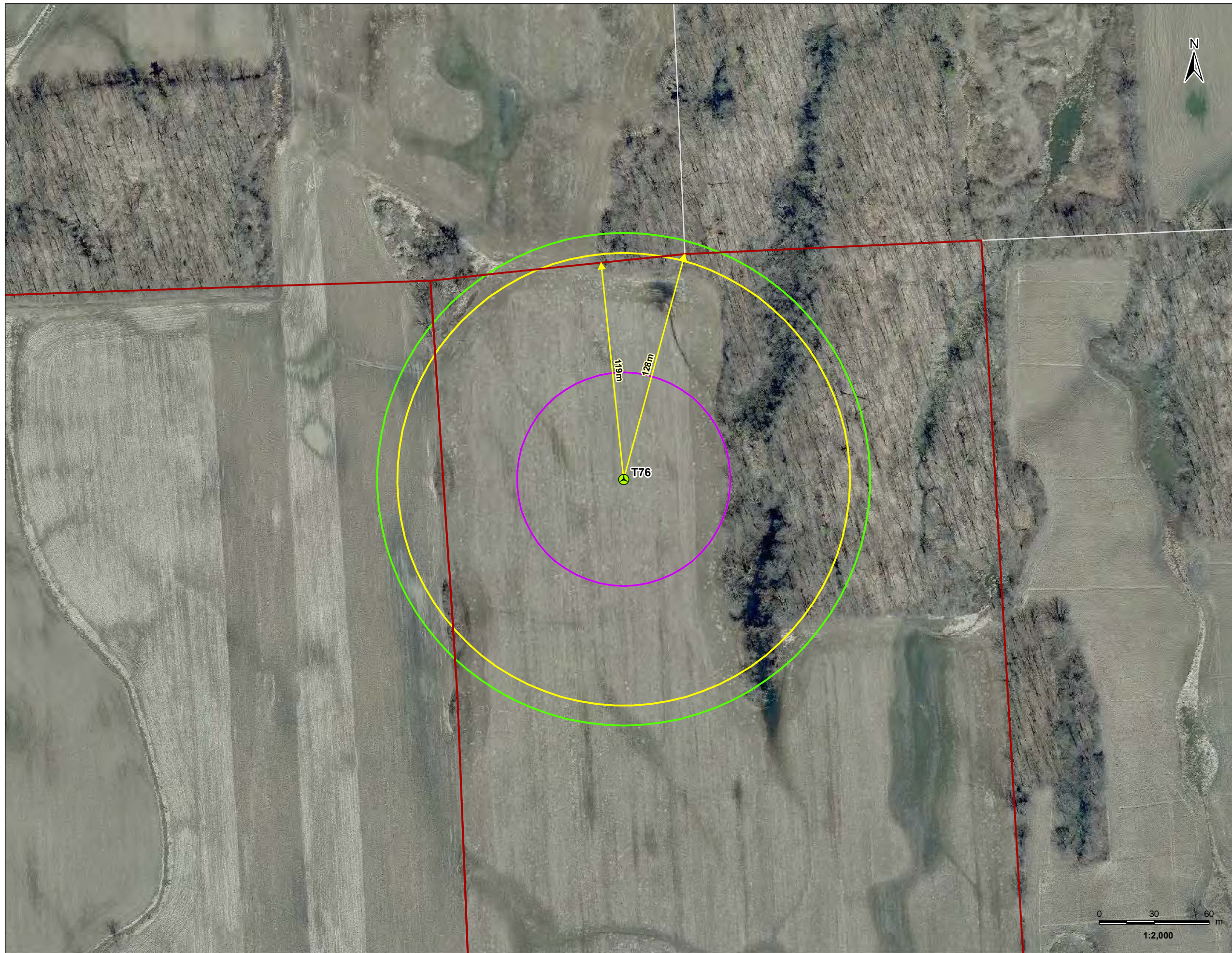
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Niagara Region Wind Farm

Figure No.  
1.62













Title  
**Overview Maps for Property  
Line Setback Assessment –  
T76**



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Revised: 2013-03-01 By: bcooper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.62a

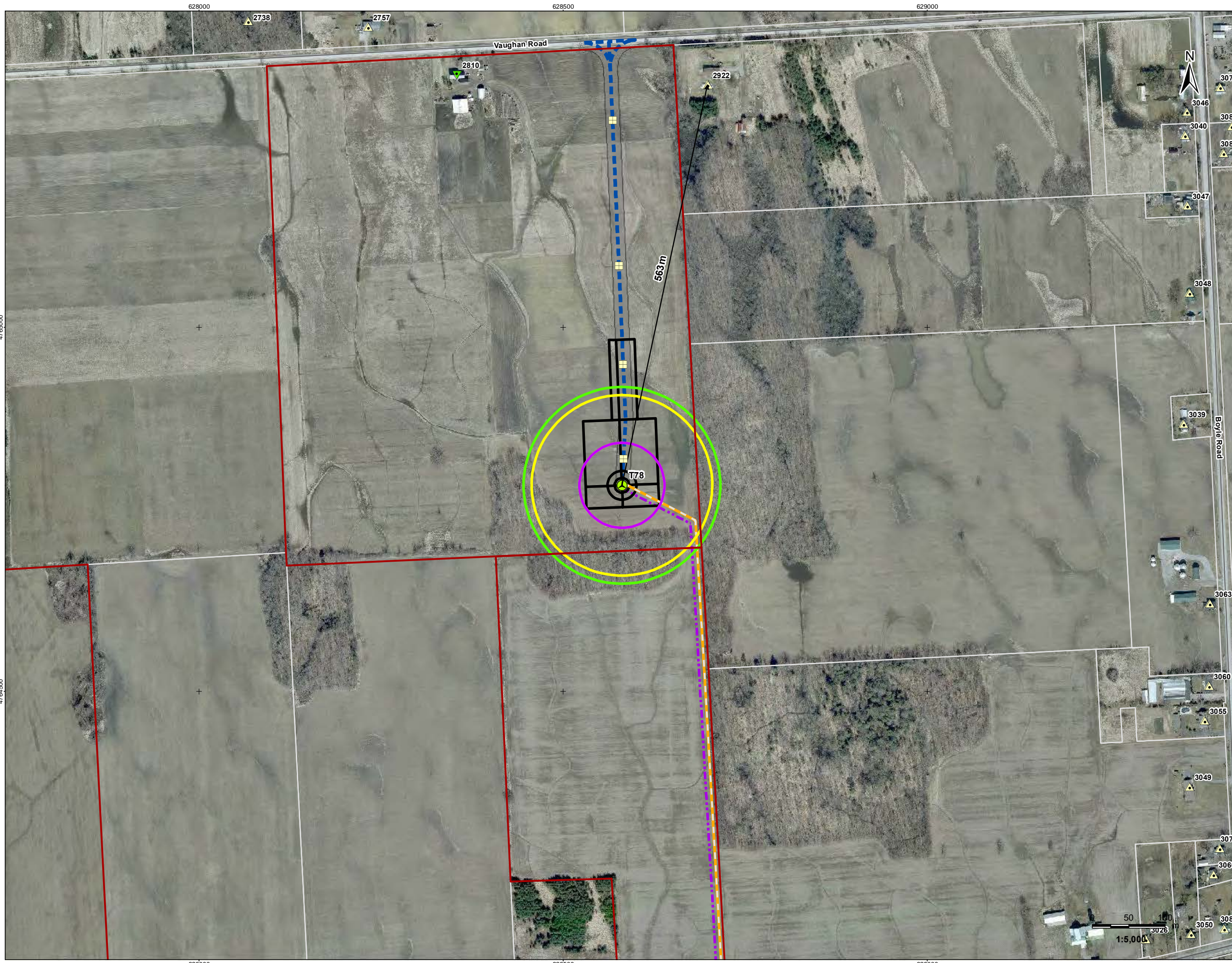
Title

**Inset Maps for  
Property Line Setback – T76**

0 30 60 m  
1:2,000

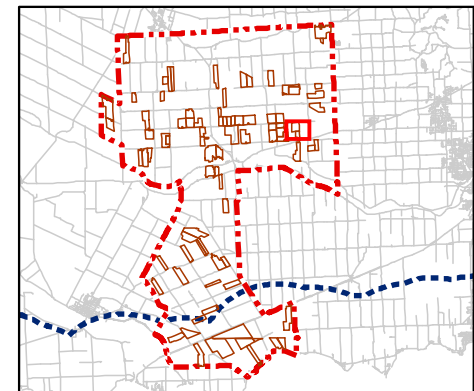


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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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Figure No.  
1.63

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T78**

















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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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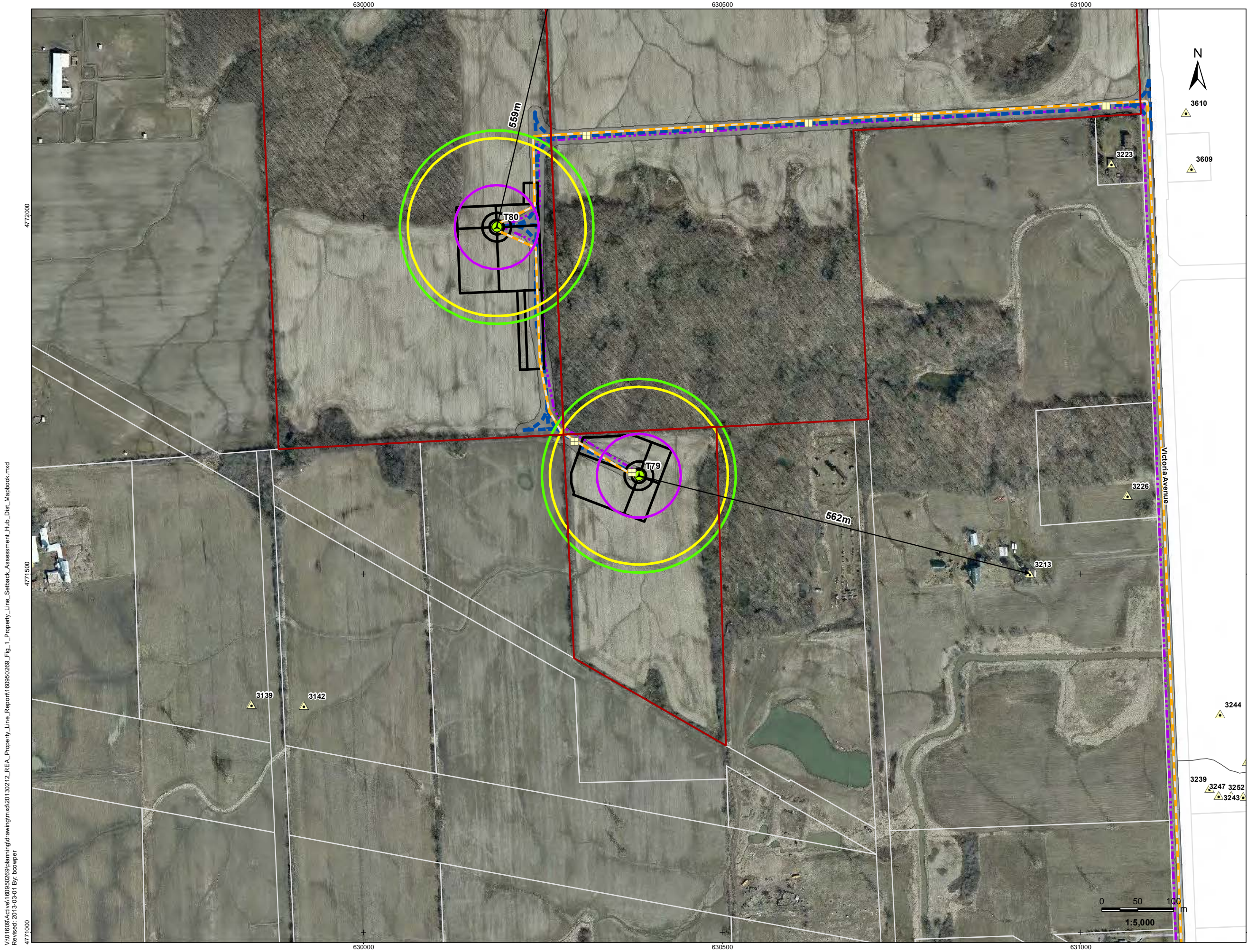
Figure No.

1.63a

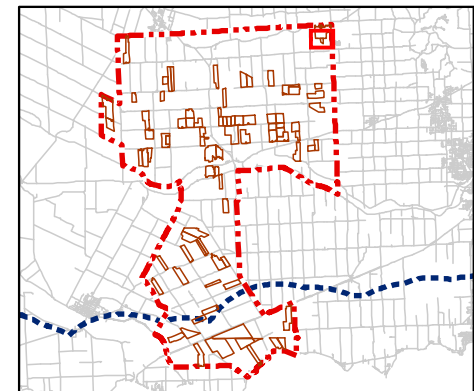
Title

**Inset Maps for  
Property Line Setback – T78**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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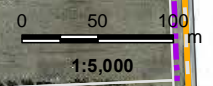


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160950269

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Niagara Region Wind Farm

Figure No.  
1.64

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T79**















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 Revised: 2013-03-01 By: bcowper  
 4771000



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Revised: 2013-03-01 By: bcooper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

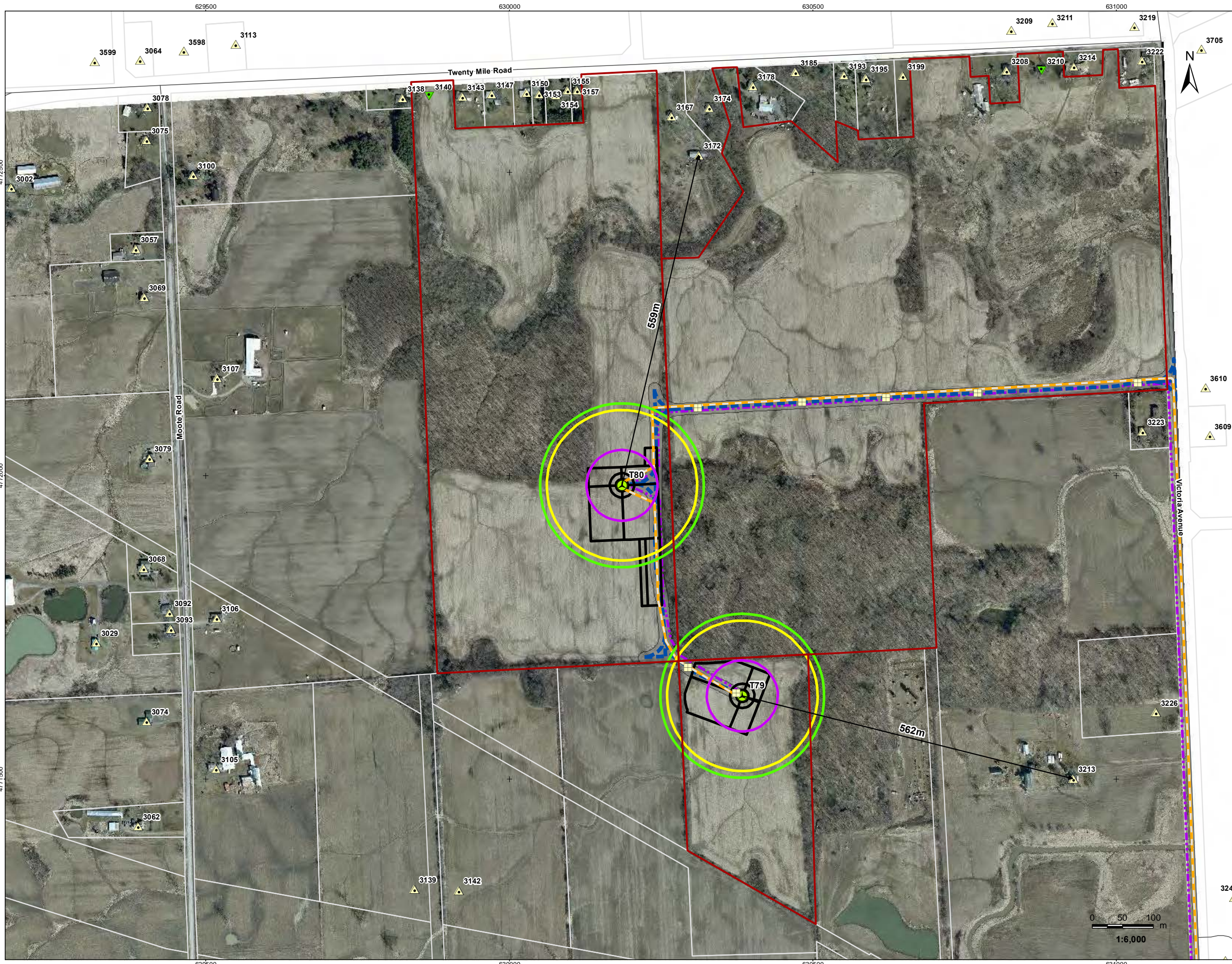
1.64a

Title

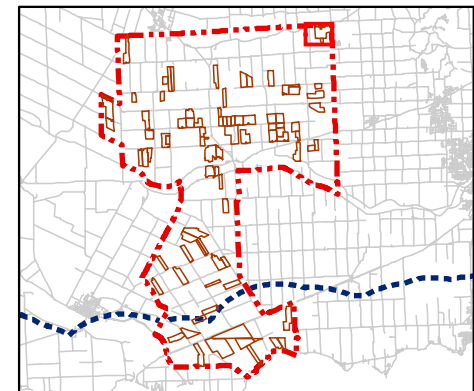
**Inset Maps for  
Property Line Setback – T79**



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 Revised: 2013-03-01 By: bcowper



- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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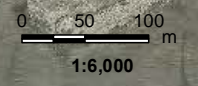


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 160950269

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 Niagara Region Wind Farm

Figure No.  
 1.65

Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T80**





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Revised: 2013-03-01 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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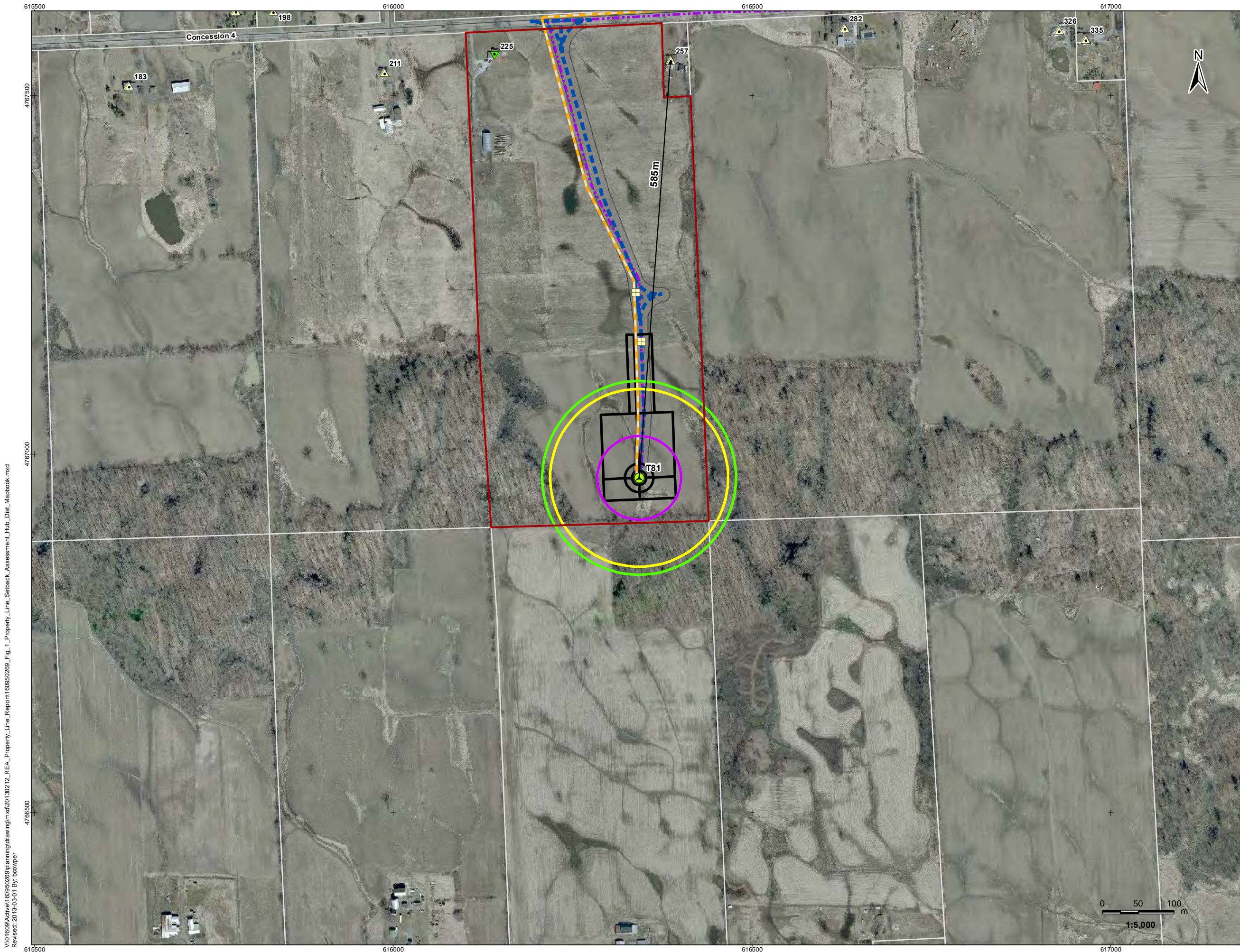
Figure No.

1.65a

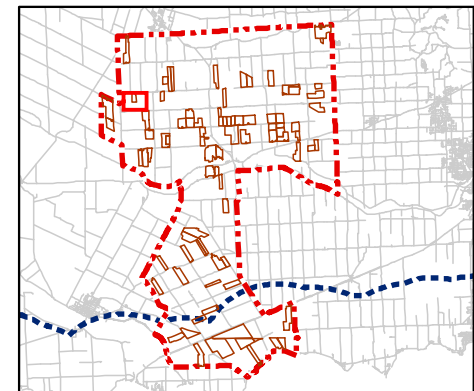
Title

**Inset Maps for  
Property Line Setback – T80**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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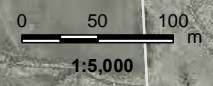
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Figure No.  
**1.66**

---

Title  
**Overview Maps for Property  
 Line Setback Assessment –  
 T81**

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Revised: 2013-03-01 By: bcooper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.66a

Title

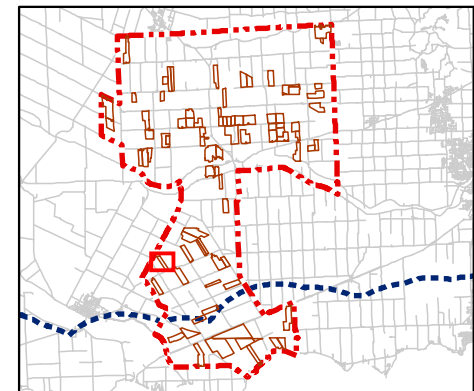
**Inset Maps for  
Property Line Setback – T81**





### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- - - Potential Access Road
- Collector Lines - Underground or Overhead
- - - Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



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Figure No.  
1.67

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T82**













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Revised: 2013-03-01 By: bcowper



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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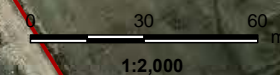
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

1.67a

Title

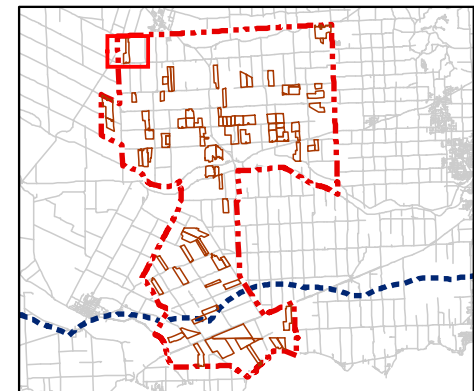
**Inset Maps for  
Property Line Setback – T82**







- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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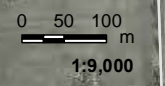
March, 2013  
160950269

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Niagara Region Wind Farm

Figure No.  
1.68

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T83**













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Revised: 2013-03-01 By: bcowper







### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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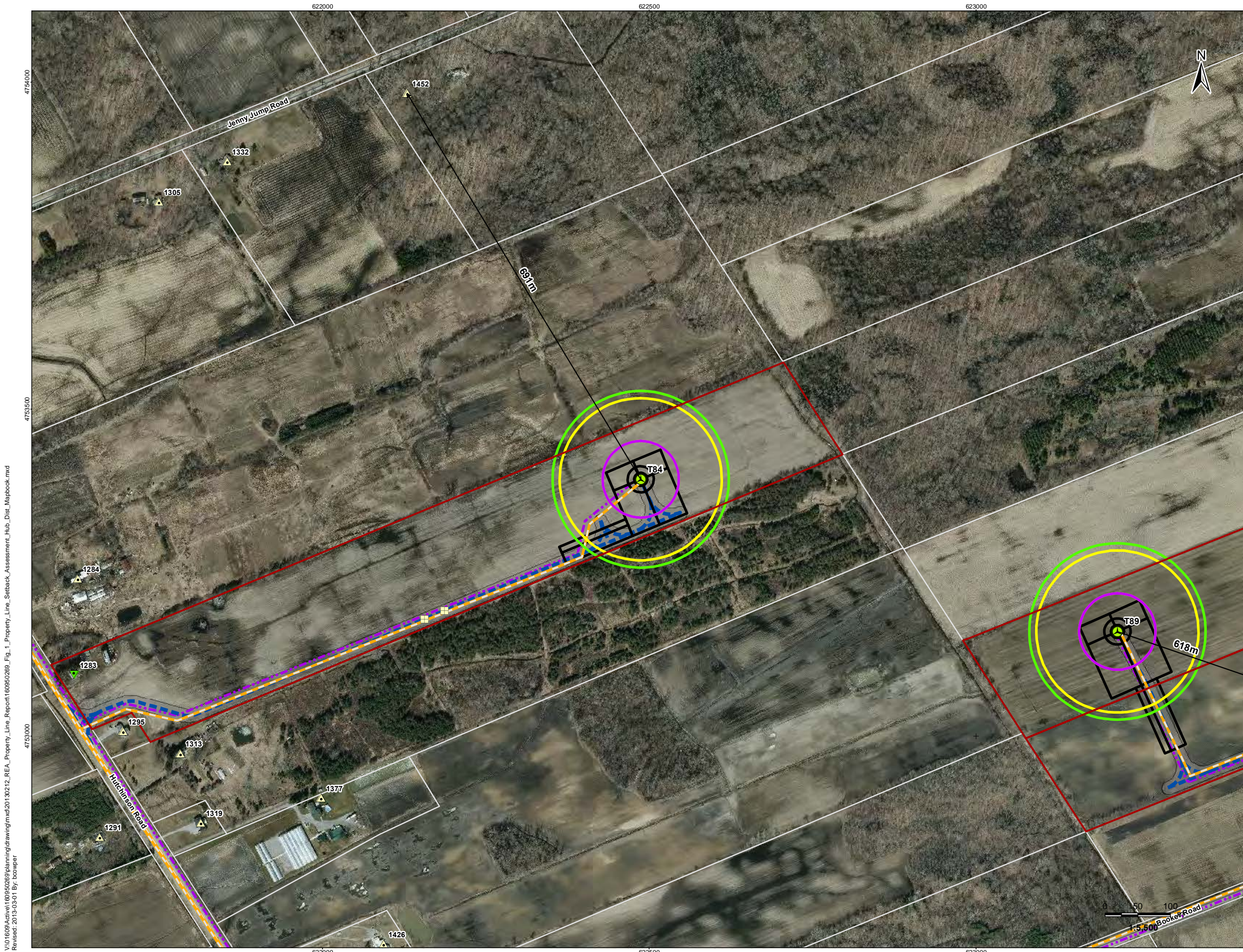
Figure No.

1.68a

Title

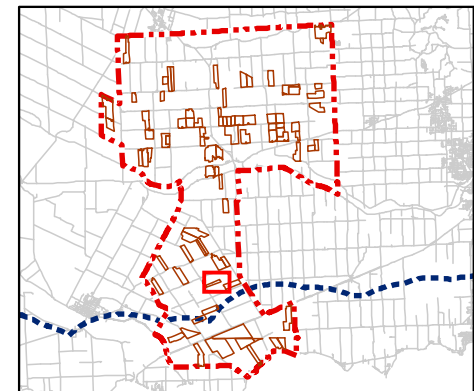
**Inset Maps for  
Property Line Setback – T83**





**Legend**

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



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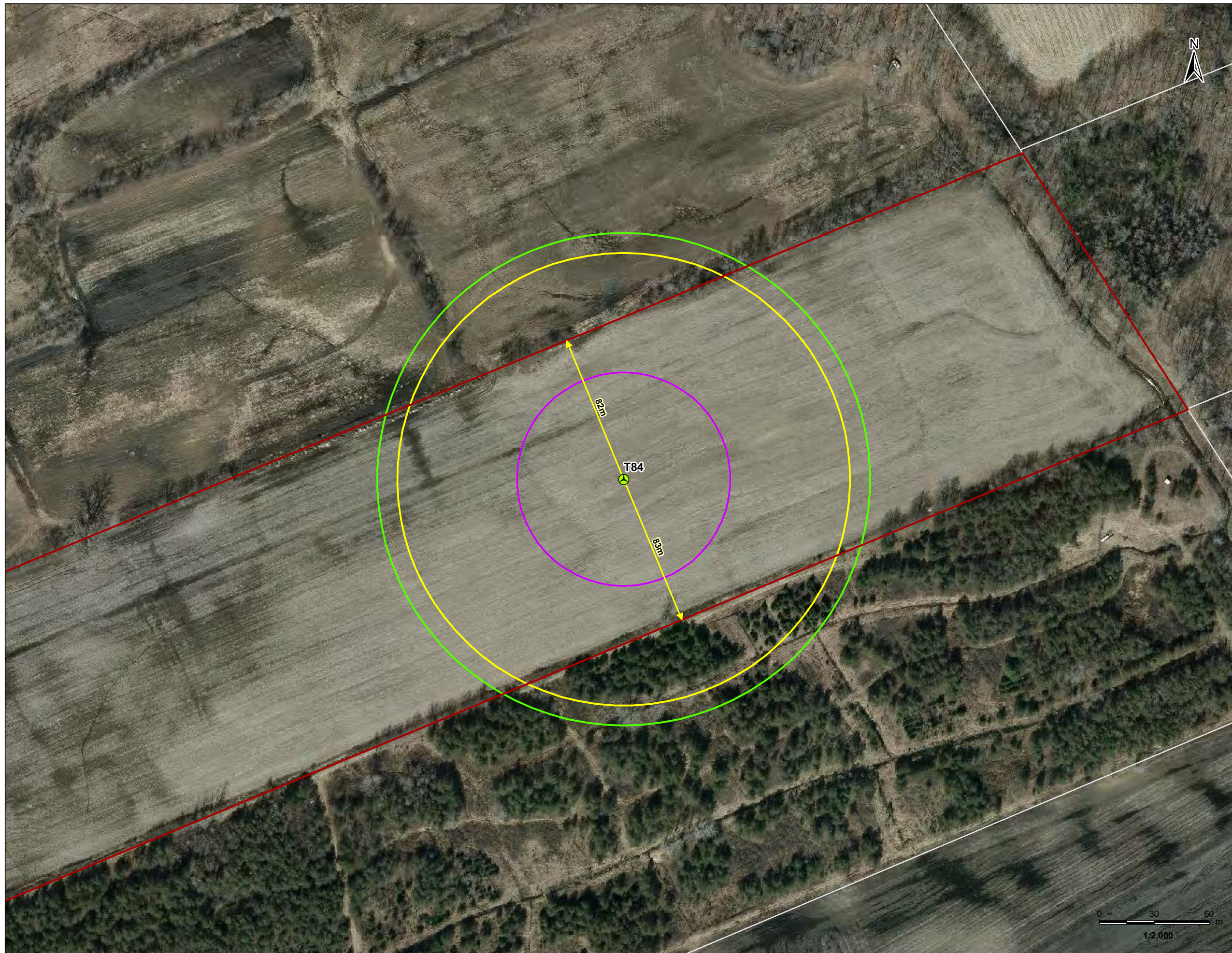
Figure No.  
1.69

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T84**

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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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Figure No.

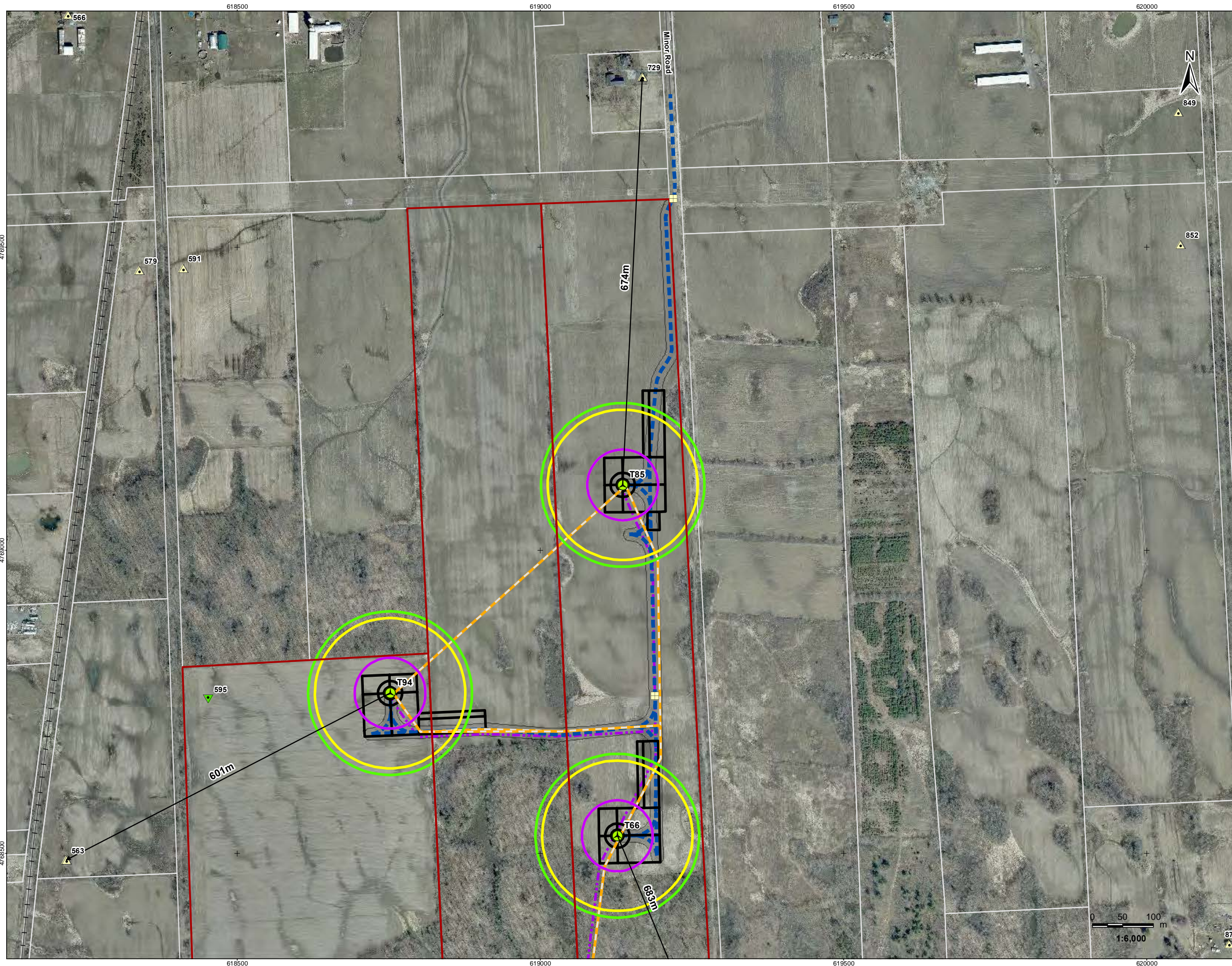
1.69a

Title

**Inset Maps for  
Property Line Setback – T84**

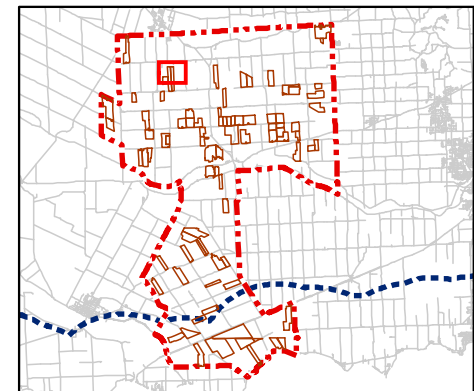


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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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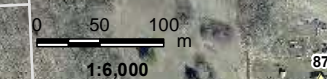
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160950269

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Niagara Region Wind Farm

Figure No.  
1.70

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T85**





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Revised: 2013-03-01 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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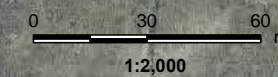
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

1.70a

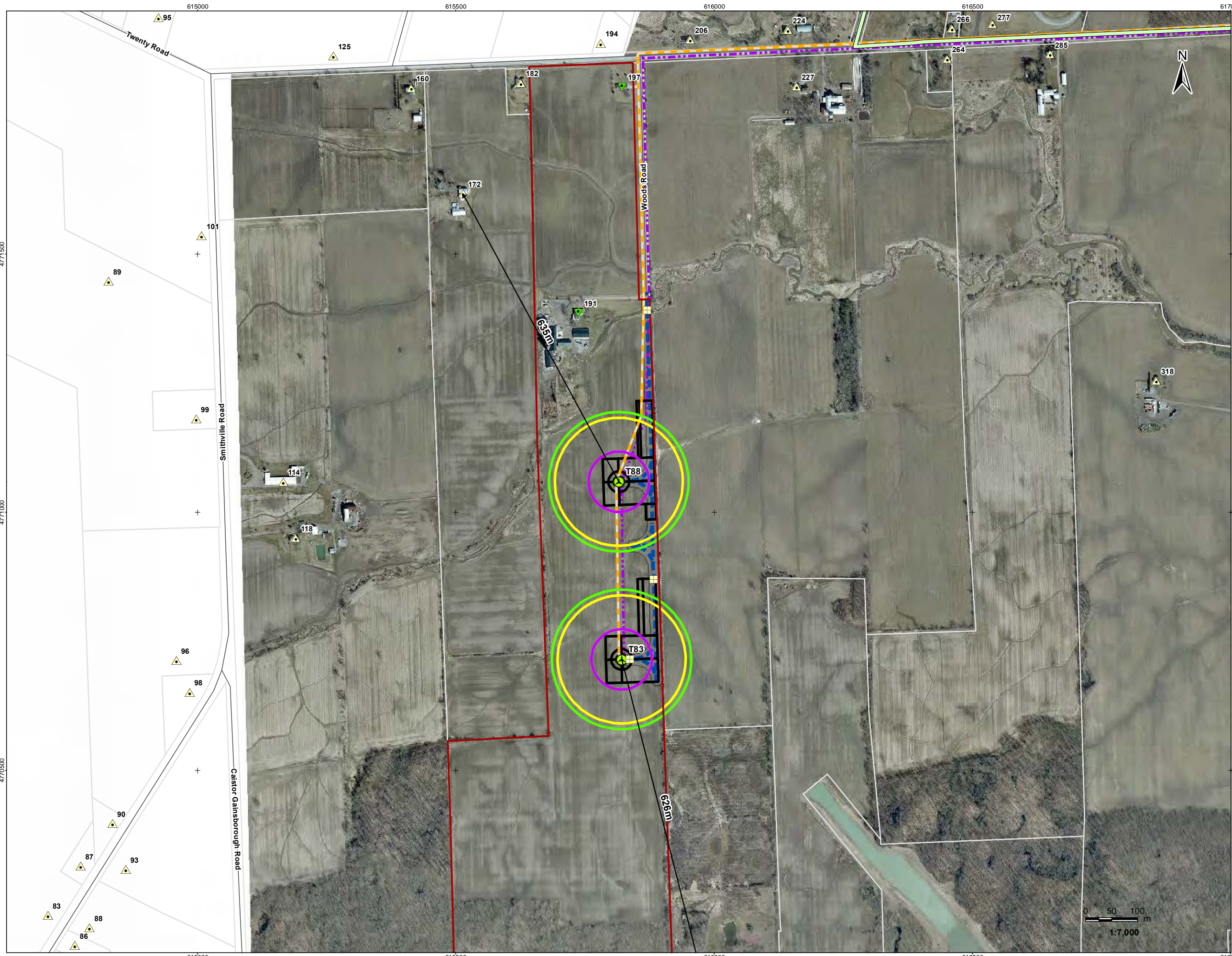
Title

**Inset Maps for  
Property Line Setback – T85**



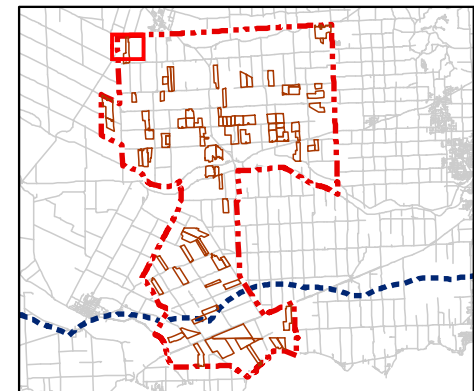


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Revised: 2013-03-01 By: bcpwper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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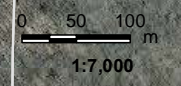
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March, 2013  
160950269

Client/Project  
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.  
1.71

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T88**

















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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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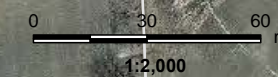
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

1.71a

Title

**Inset Maps for  
Property Line Setback – T88**

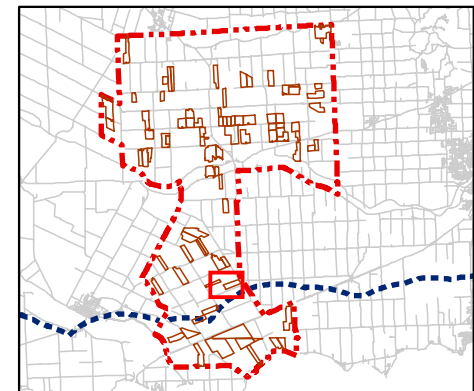






**Legend**

- ▬ Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- ▬ Preferred Transmission Line Route
- ▬ Alternate Transmission Route
- ▬ Potential Access Road
- ▬ Collector Lines - Underground or Overhead
- - - Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



**Notes**

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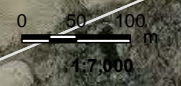
March, 2013  
160950269

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Niagara Region Wind Farm

Figure No.  
1.72

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T89**

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






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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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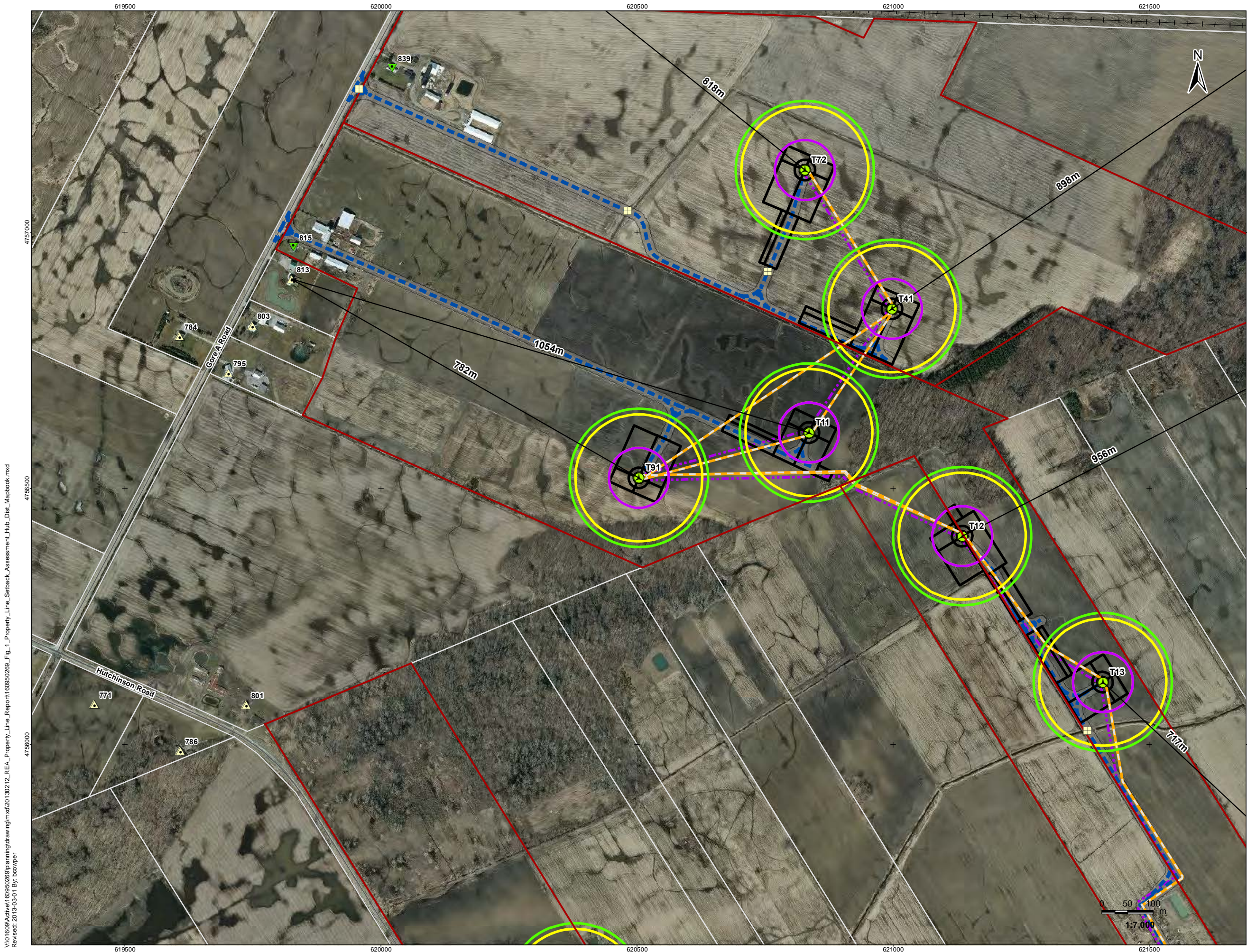
Figure No.

1.72a

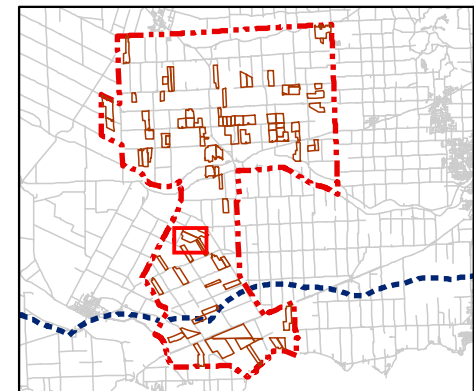
Title

**Inset Maps for  
Property Line Setback – T89**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



- ### Notes
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Figure No.  
1.73

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T91**

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Revised: 2013-03-01 By: bcowper



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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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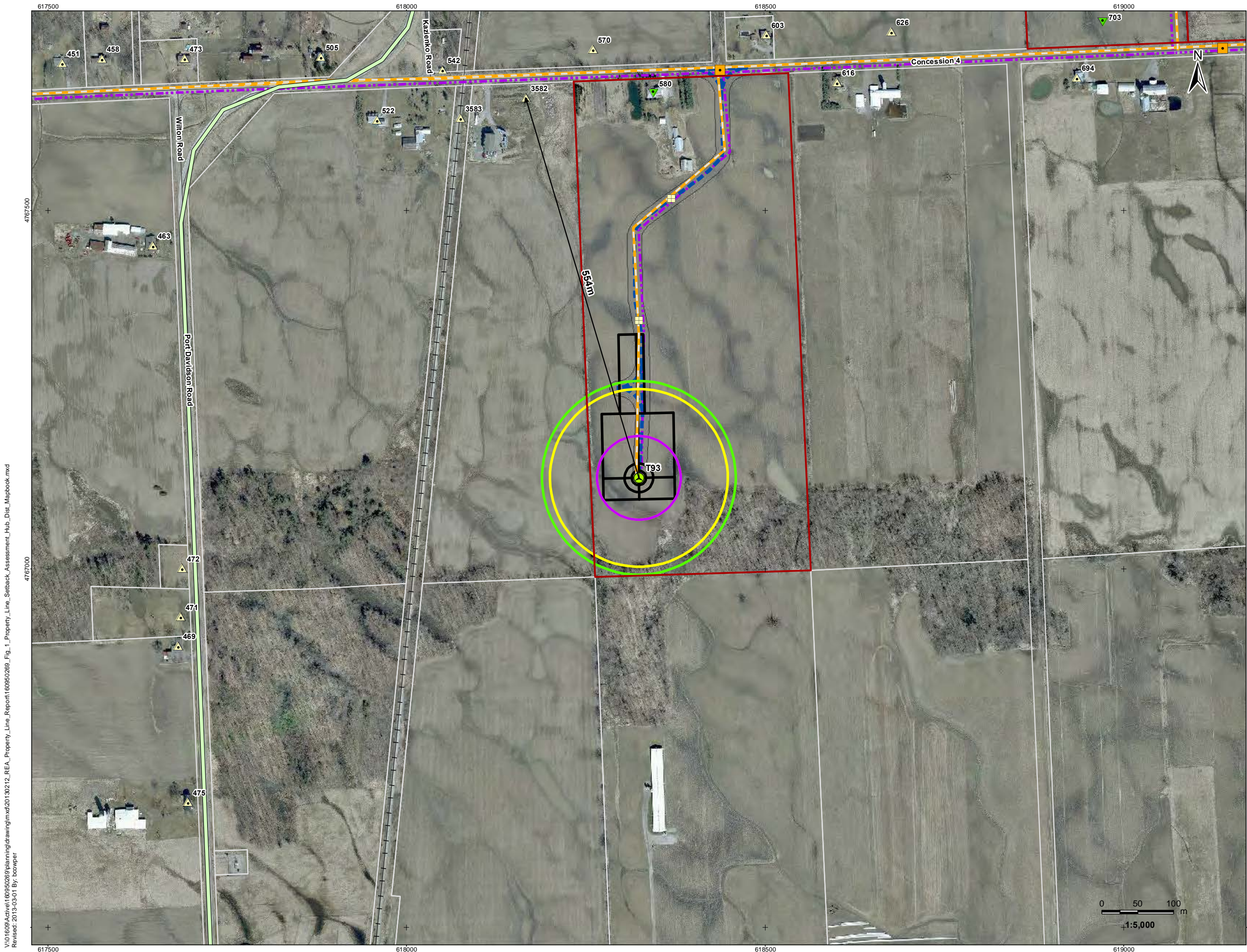
Figure No.

1.73a

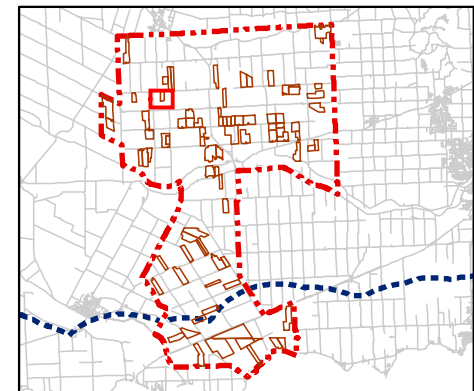
Title

**Inset Maps for  
Property Line Setback – T91**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - ▲ Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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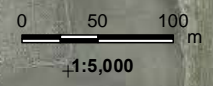


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Figure No.  
1.74

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T93**















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### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.74a

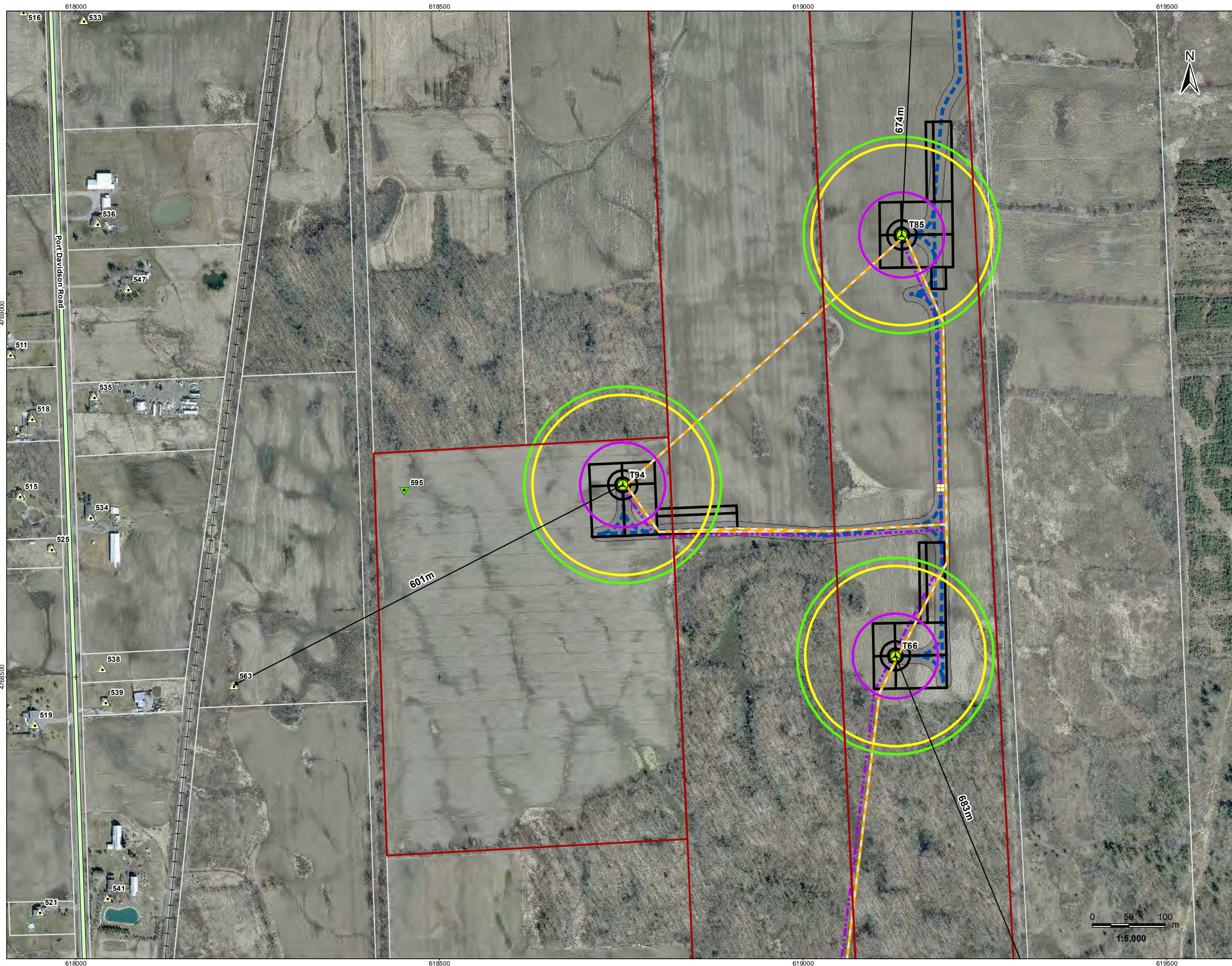
Title

**Inset Maps for  
Property Line Setback – T93**

0 30 60 m  
1:2,000

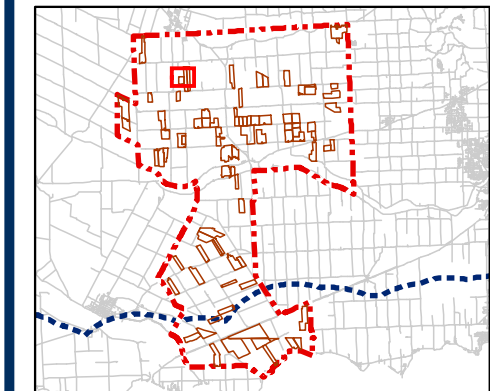


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 Revised: 2013-03-01 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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Figure No.  
1.75

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T94**

















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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

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Figure No.

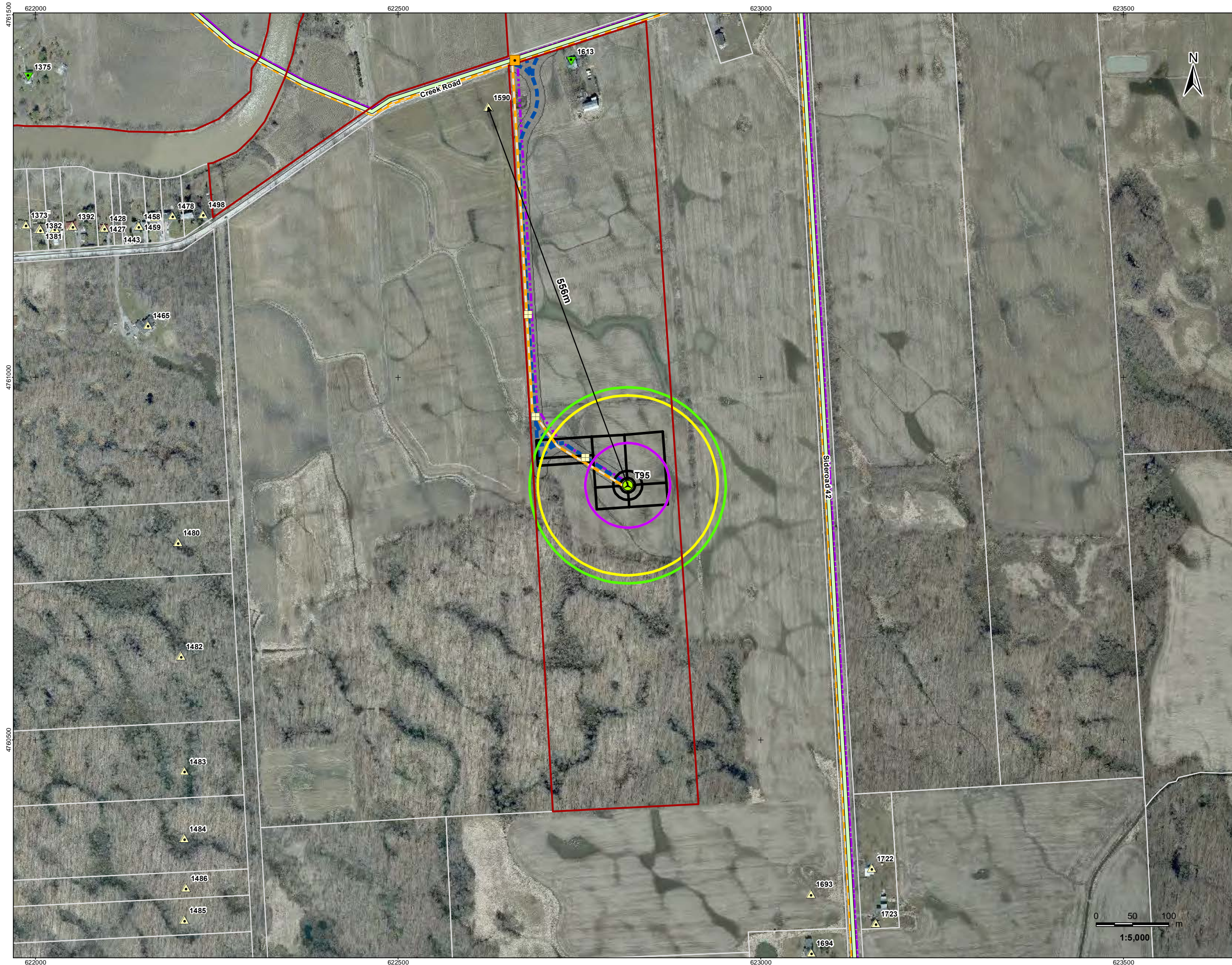
1.75a

Title

**Inset Maps for  
Property Line Setback – T94**

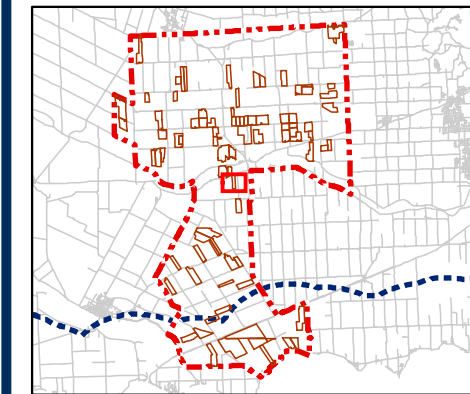


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 Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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Figure No.  
1.76

Title

**Overview Maps for Property  
Line Setback Assessment –  
T95**



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Revised: 2013-03-01 By: bcooper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

### Notes

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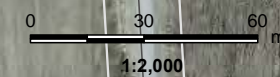
Niagara Region Wind Corporation  
Niagara Region Wind Farm

Figure No.

1.76a

Title

**Inset Maps for  
Property Line Setback – T95**





621000 621500 622000

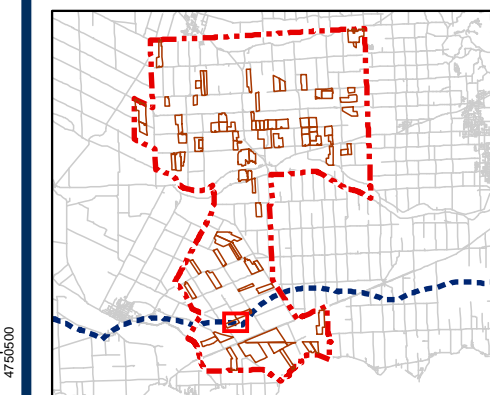
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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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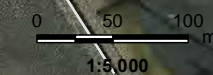
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Figure No.

1.77

Title

**Overview Maps for Property  
Line Setback Assessment –  
T96**



621000 621500 622000

4751000

4750500













4750500



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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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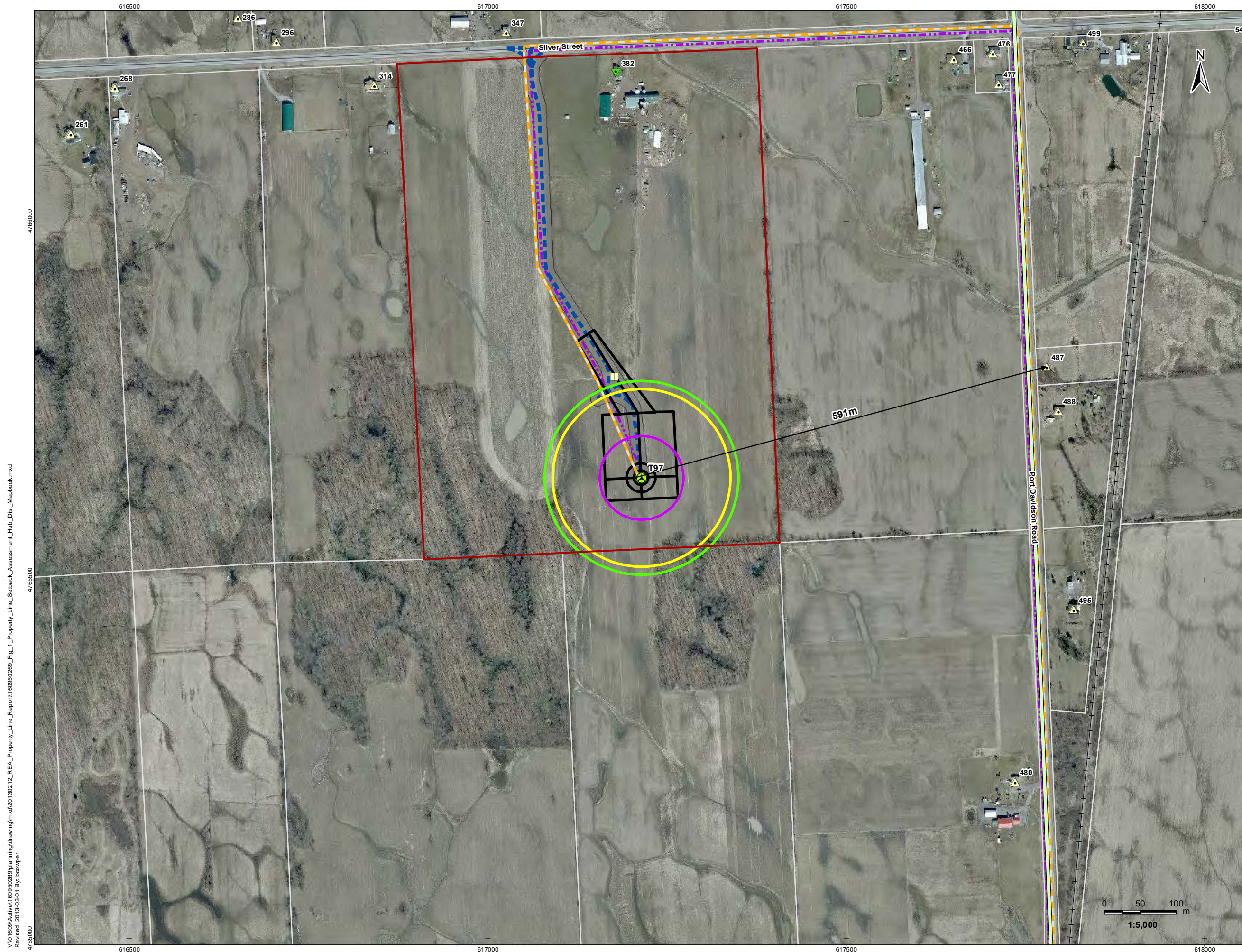
Figure No.

1.77a

Title

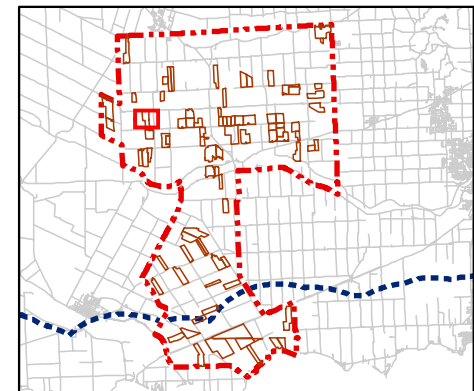
**Inset Maps for  
Property Line Setback – T96**





### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



### Notes

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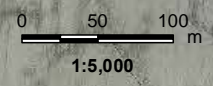
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Figure No.  
1.78

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T97**















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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.78a

Title

**Inset Maps for  
Property Line Setback – T97**

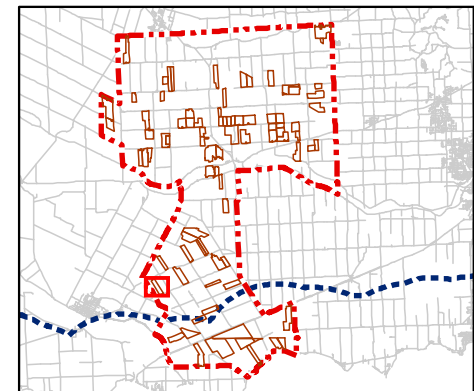
0 30 60 m  
1:2,000





### Legend

- Project Study Area
- Participating Property
- Property Boundary
- ▲ Proposed Turbine Location
- Junction Box
- Proposed Culvert
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- ▲ Non-Participating Receptor
- ▼ Participating Receptor
- Preferred Transmission Line Route
- Alternate Transmission Route
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Temporary Laydown Area
- Access Road 20m Construction Area



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Figure No.  
1.79

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Title  
**Overview Maps for Property  
Line Setback Assessment –  
T98**

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Revised: 2013-03-01 By: bcowper



### Legend

- Project Study Area
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Distance to Property Boundary
- Turbine 58.6m Buffer (Blade + 10m)
- Turbine 124m Buffer (Hub Height)
- Turbine 135m Buffer (Hub Height)
- Non-Participating Receptor
- Participating Receptor
- Railway
- Road

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Figure No.

1.79a

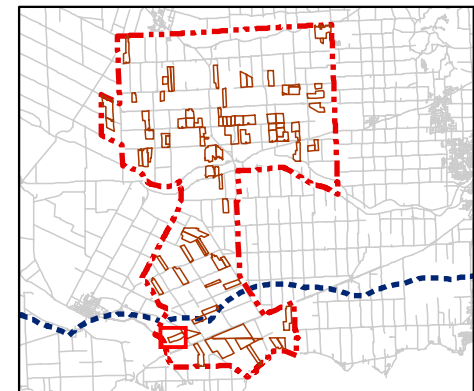
Title

**Inset Maps for  
Property Line Setback – T98**





- ### Legend
- Project Study Area
  - Participating Property
  - Property Boundary
  - Proposed Turbine Location
  - Junction Box
  - Proposed Culvert
  - Turbine 58.6m Buffer (Blade + 10m)
  - Turbine 124m Buffer (Hub Height)
  - Turbine 135m Buffer (Hub Height)
  - ▲ Non-Participating Receptor
  - ▼ Participating Receptor
  - Preferred Transmission Line Route
  - Alternate Transmission Route
  - Potential Access Road
  - Collector Lines - Underground or Overhead
  - Fibre Optic Line
  - Temporary Laydown Area
  - Access Road 20m Construction Area



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Figure No.  
1.80

Title  
**Overview Maps for Property  
Line Setback Assessment –  
T99**

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Revised: 2013-03-01 By: bcowper



### Legend

-  Project Study Area
-  Participating Property
-  Property Boundary
-  Proposed Turbine Location
-  Distance to Property Boundary
-  Turbine 58.6m Buffer (Blade + 10m)
-  Turbine 124m Buffer (Hub Height)
-  Turbine 135m Buffer (Hub Height)
-  Non-Participating Receptor
-  Participating Receptor
-  Railway
-  Road

### Notes

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Figure No.

1.80a

Title

**Inset Maps for  
Property Line Setback – T99**



## **Appendix B**

### **Table Summarizing Individual Property Line Setback Assessments**



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
T01-West	64	60	71	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T01-North	61	63	74	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T01-Northeast	69	55	66	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T02 - North	92	32	43	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
T02 - East	124	0	11	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.
T03- West	56*	68	77	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	*T03 is located within 56 m of the west property boundary which is less than 58.6 m (blade length + 10m). As such, NRWC has entered into an agreement with this landowner to permit the location of the turbine within 56 m in compliance with section 53(20(b) of O.Reg.359/09. See <b>Appendix C</b> .  The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T03- Northwe st	89	35	46	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.
T04- West	89	35	46	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T04-	95	29	40	Infrastructure: <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
East				Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T05	77	47	58	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T06	70	54	65	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T08	66	58	69	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T10	114	9	21	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T11	119	5	16	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T13	66	58	69	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T14	90	34	45	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T16	85	25	25	Infrastructure: <input checked="" type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Building/Structure : <input type="checkbox"/>	Adverse impacts to infrastructure, including damage to roads, railways, utility lines and pipelines, may occur in the unlikely event of a turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbine meets the setback distance from public road right of ways and railway easements (blade length plus 10 metres) as prescribed in O. Reg. 359/09. In the unlikely event of damage to roadways or railways due to turbine collapse, NRWC will compensate the owner for any restoration.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T18-South (Railway easement)	65	23	23	Infrastructure: <input checked="" type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to infrastructure, including damage to roads, railways, utility lines and pipelines, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  The turbine meets the setback distance from public road right of ways and railway easements (blade length plus 10 metres) as prescribed in O. Reg. 359/09. In the unlikely event of damage to roadways or railways due to turbine collapse, NRWC will compensate the owner for any restoration.
T18-Southeast	101	23	34	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T18-South	91	33	44	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T18-South	88	36	47	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.



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Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T19	65	59	70	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T20	80	44	55	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T21	66	58	69	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T22	65	59	70	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/>	Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Building/Structure : <input type="checkbox"/>		
T23-East (railway easement)	62	21	21	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T23-East (farm)	83	47	58	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.
T27-East (easement)	61	5	16	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T27-East (farm)	66	58	69	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T28-East (easement)	61	7	7	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T28- East (farm)	68	56	67	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T29	81	43	54	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T31 - North	93	31	42	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T31 – Northeast	132	0	3	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.



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Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
T32	85	39	50	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T33-Northwest	96	28	39	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T33-North	62	62	73	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T33-West (Road easement)	62	10	10	Infrastructure: <input checked="" type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to infrastructure,	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  The turbine meets the setback distance from public road right of ways and railway easements (blade length plus 10 metres) as prescribed in



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Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
					including damage to roads, railways, utility lines and pipelines, may occur in the unlikely event of a turbine collapse.	O. Reg. 359/09. In the unlikely event of damage to roadways or railways due to turbine collapse, NRWC will compensate the owner for any restoration.
T34	65	59	40	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.
T37- East (easement)	62	20	20	Infrastructure: <input checked="" type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to infrastructure, including damage to roads, railways, utility lines and pipelines, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  The turbine meets the setback distance from public road right of ways and railway easements (blade length plus 10 metres) as prescribed in O. Reg. 359/09. In the unlikely event of damage to roadways or railways due to turbine collapse, NRWC will compensate the owner for any restoration.
T37- East (farm)	82	42	53	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T38	102	22	33	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.



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Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
T44-West	95	29	40	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure: <input type="checkbox"/>	Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T44-South	99	25	36	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure: <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T44	133	0	2	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure: <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T48	117	7	18	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure: <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.
T52	66	58	69	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined



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Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	unlikely event of turbine collapse. Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	in the REA documents. In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T54-West	109	15	26	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse. Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse. Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw. In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction. In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents. In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T54-North	67	57	68	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse. Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse. Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse. Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw. In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction. In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents. In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T55-Northwest	80	44	55	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse. Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw. In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents. In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.



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Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Building/Structure : <input type="checkbox"/>		
T55-West	71	53	64	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.</p> <p>Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.</p> <p>In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.</p> <p>In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.</p>
T59-West	65	59	70	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.</p> <p>In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.</p>
T59-North	61	62	73	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.</p> <p>In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.</p>
T60	68	56	67	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input checked="" type="checkbox"/>	<p>Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.</p> <p>Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.</p>	<p>The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.</p> <p>In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.</p> <p>In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.</p>



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	unlikely event of turbine collapse. Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	in the REA documents.
T61	65	59	70	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse. Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw. In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents. In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T62	89	35	46	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw. In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T63	115	8	19	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw. In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T74	63	61	72	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse. Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse. Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw. In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction. In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents. In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
					event of turbine collapse.	
T76 - North	119	5	16	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T76 - Northeast	128	0	7	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T78	104	20	31	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T79- West	102	22	33	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T79- East	110	14	25	Infrastructure: <input type="checkbox"/> Land Use and : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Businesses Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	event of a turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T81-South	63	61	72	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T81-East	94	30	41	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T81-Southeast	114	10	21	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T82	97	27	38	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
					watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T83	78	46	57	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T84-South	82	42	53	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T84-North	82	42	53	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T85-East (easement)	101	21	21	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T85-East	122	2	13	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing



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Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
(farm)				Businesses Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T88	70	54	65	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T89	75	49	60	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T93	67	56	67	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T94	62	62	73	Infrastructure: <input type="checkbox"/> Land Use and Businesses: <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.



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Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	event of turbine collapse.	In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T95 - East	68	56	67	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T95 – West	129	0	6	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.
T97	99	25	36	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input checked="" type="checkbox"/> Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to woodlots, including soil compaction, damage or loss of trees and vegetation, may occur in the unlikely event of a turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.
T98	116	8	19	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input type="checkbox"/> Woodlots: <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to potential watercourses, including siltation and alteration, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to a watercourse due to turbine collapse, NRWC will coordinate, at their own cost, all restoration activities to return the watercourse and site drainage to its original condition. Other mitigation measures are outlined in the REA documents.



Attachment B: Property Line Assessment Summary						
Turbine ID	Distance to Property Line (m)	Length of Overlap for 124m hub height (m)	Length of Overlap for 135m hub height (m)	Features Within Overlap	Potential Adverse Impacts	Preventative Measures
				Watercourses: <input checked="" type="checkbox"/> Building/Structure : <input type="checkbox"/>		
T99	92	31	42	Infrastructure: <input type="checkbox"/> Land Use and Businesses <input checked="" type="checkbox"/> Hedgerows: <input checked="" type="checkbox"/> Woodlots: <input type="checkbox"/> Watercourses: <input type="checkbox"/> Building/Structure : <input type="checkbox"/>	Adverse impacts to agricultural land, including crop damage and soil compaction, may occur in the unlikely event of turbine collapse.  Adverse impacts to hedgerows, including vegetation damage and disturbance to related wildlife habitat, may occur in the unlikely event of turbine collapse.	The turbines will be constructed and designed by professional engineers, undergo regular maintenance and monitoring by operational staff, and contain shutdown mechanisms in instances such as extreme weather or malfunction. The turbines are also equipped with a de-icing system to prevent ice formation and ice throw.  In the unlikely event of damage to agricultural land due to turbine collapse, landowners would be compensated by NRWC for any crop damage. Other mitigation measures are outlined in the REA documents to mitigate soil compaction.  In the unlikely event of damage to vegetation due to turbine collapse, NRWC will coordinate, at NRWC cost, all necessary restoration or replanting. NRWC will additionally compensate the landowner for any vegetation loss. Other mitigation measures for vegetation are outlined in the REA documents.



## **Appendix C**

**Copy of Landowner Agreement for Adjacent  
Turbine**



**ABUTTING LAND OWNER'S ACKNOWLEDGEMENT AND CONSENT AGREEMENT**

This Abutting Land Owner's Acknowledgement and Consent Agreement made as of the 1<sup>st</sup> day of March, 2013 by and between [REDACTED] (the "Abutting Land Owner") and NIAGARA REGION WIND CORPORATION ("NRWC").

**Whereas** NRWC has been awarded a feed-in tariff contract from the Ontario Power Authority for the development, construction and operation of a 230 megawatt renewable energy generation facility in the Niagara Region at which wind is used to generate electricity through the use of wind turbines (the "Wind Facility");

**And Whereas** the Abutting Land Owner owns property described in [REDACTED] [REDACTED] (the "Abutting Land Owner's Property") and which is shown in green on Schedule "A" attached hereto;

**And Whereas** the Abutting Land Owner's Property is adjacent to and abuts property on the east thereof owned by [REDACTED] (the "Participating Land Owner"), which property is described in [REDACTED] (the "Participating Land Owner's Property") and which is outlined in red on Schedule "A" attached hereto, and on which NRWC intends to construct one wind turbine as part of the Wind Facility;

**And Whereas** the Abutting Land Owner is the son of the Participating Land Owner and there is no fencing along the boundary and lot line of the Abutting Land Owner's Property and the Participating Land Owner's Property, which are farmed as if one farm;

**And whereas** the wind turbine to be constructed on the Participating Land Owner's Property is marked as turbine T03 on Schedule "A" (the "Turbine"), which location is approximately 56 metres from the boundary lot line between the Abutting Land Owner's Property and the Participating Land Owner's Property, being a closer setback than required by the Renewable Energy Approval (REA) Regulation (O. Reg. 359/09);

**And whereas** the Abutting Land Owner has agreed with NRWC to provide his written consent to the location of the Turbine as set out on Schedule "A".

**Now therefore**, in consideration of the sum of \$1.00 and other good and valuable consideration, now paid by NRWC to the Abutting Land Owner, the receipt and sufficiency of which are hereby acknowledged, the Abutting Land Owner acknowledges and agrees as follows:

1. The Abutting Land Owner acknowledges the location of the Turbine on the Participating Land Owner's Property as set out on Schedule "A" attached hereto.
2. The Abutting Land Owner further acknowledges that the setback of the Turbine on the Participating Land Owner's Property is approximately 56 metres from the boundary lot line between the Abutting Land Owner's Property and the Participating Land Owner's Property,



being a closer setback than required by the Renewable Energy Approval (REA) Regulation (O. Reg. 359/09).

3. The Abutting Land Owner hereby consents to the location of the Turbine and consents to the closer setback.

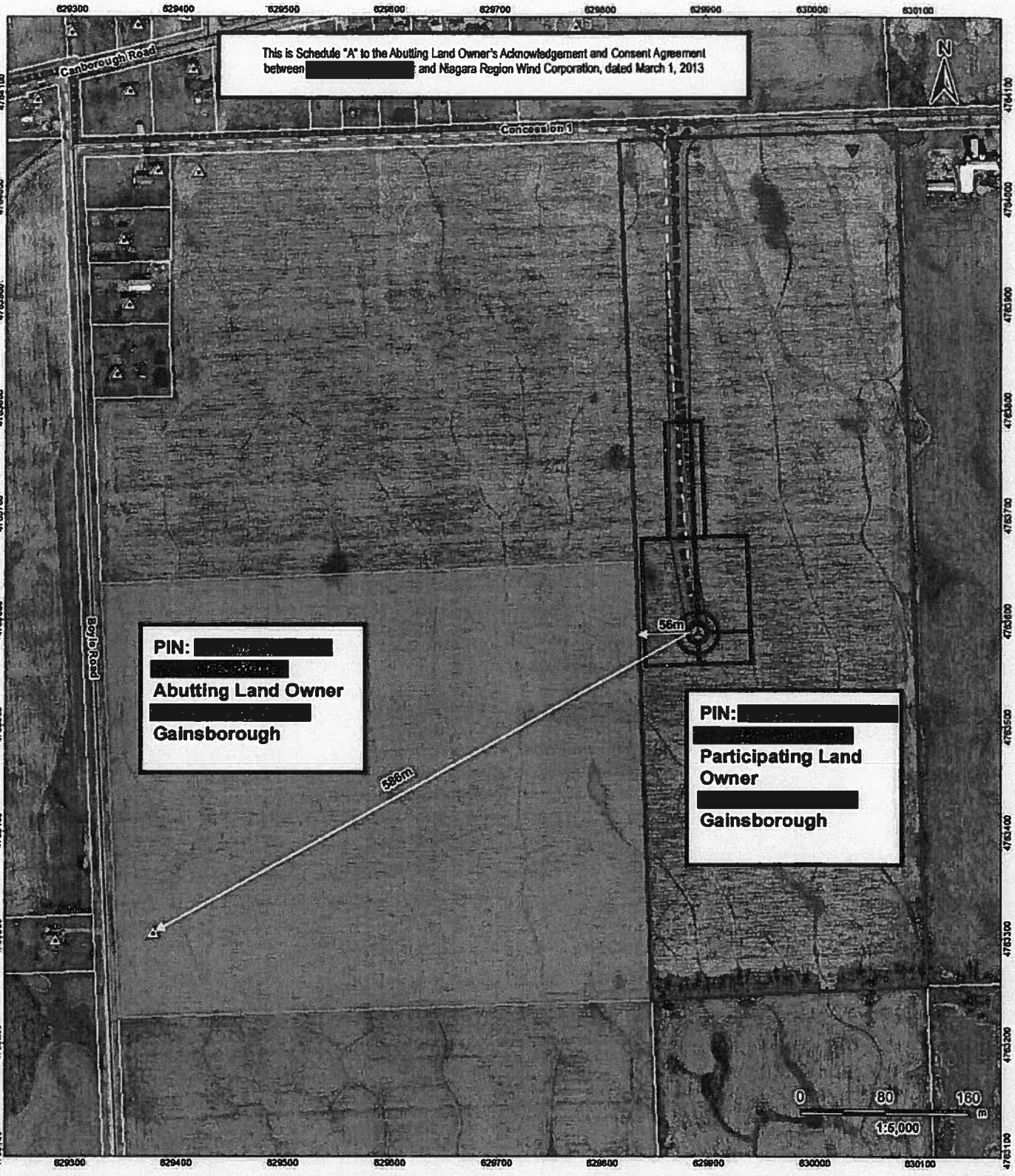
**IN WITNESS WHEREOF**, this Abutting Land Owner's Acknowledgement and Consent Agreement is executed by the Abutting Land Owner.

[Redacted]

Witness Name and Signature

[Redacted]  
[Redacted]  
[Redacted]





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 Revised: 2013-03-01 By: bovwper

This is Schedule "A" to the Abutting Land Owner's Acknowledgement and Consent Agreement between [redacted] and Niagara Region Wind Corporation, dated March 1, 2013

PIN: [redacted]  
 Abutting Land Owner  
 Gainsborough

PIN: [redacted]  
 Participating Land Owner  
 Gainsborough



**Legend**

- Beamer Property Boundary
- Participating Property
- Property Boundary
- Proposed Turbine Location
- Participating Receptor
- Non-Participating Receptor
- Distance to Property Boundary
- Potential Access Road
- Collector Lines - Underground or Overhead
- Fibre Optic Line
- Road
- Access Road 20m Construction Area

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.

Client/Project  
 Niagara Region Wind Corporation  
 Niagara Region Wind Farm

Figure No.  
 1

Title

**Beamer Land Agreement**

March, 2013  
Project No