



SOUTH NATION
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SOUTH NATION CONSERVATION

FOREST MANAGEMENT PLAN

FIVE-YEAR OPERATING PLAN
2018-2023

MARCH 2018



**South Nation Forest
Five-Year Operating Plan
2018 – 2023**

for the

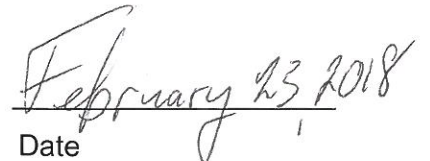
South Nation Forest



R.P.F Seal

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Date

Reviewed by SNC Forestry Committee

Approved by SNC Board

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1 INTRODUCTION

The Forest Operating Plan summarizes activities during the last operating period (2013-2017) and sets forth a schedule of planned activities for the next operating period (2018-2022). The five-year operating period provides an opportunity to adjust the allowable harvest area based on new information accumulated during the past operating period.

2 REPORT OF PAST FOREST OPERATIONS AND ACTIVITIES

2.1 Forest Accruals and Depletions

Table 1 summarizes accruals and depletion of the forest area during the 2013-2017 operating period. Through an active land securement program, the SNC Forest area increased by 534.9 hectares valued at over \$2.2 million.

Depletion of the forest area was 23.1 hectares. Two poorly stocked forest compartments were converted to endangered species habitat, through tree removal and the establishment of native grass meadows. The habitat conversion areas included a former gravel pit and a dredging disposal site; both areas had been subject to several failed afforestation efforts. The conversion serves to compensate locally for Bobolink and Eastern Meadowlark habitat loss. The total converted area was 22.0 hectares.

In addition, encroachment resulted in the loss of 0.6 hectares and 0.5 hectares was lost because of storm damage which was salvaged during logging operations, both areas are scheduled for planting in spring 2018.

Table 1
South Nation Forest
Summary of Forest Accruals and Depletions

Year	Comp.	Municipality		Type	Area (ha.)	Value
2013	SNC 110	North Stormont	Accrual	Split Receipt	75.4	\$367,250.00
	SNC 150	City of Ottawa	Accrual	Fee Simple	96.6	\$600,000.00
2014	SNC 147	South Dundas	Accrual	Fee Simple	152.8	1.00
	SNC 152	Nation	Accrual	Fee Simple	10.1	\$22,400.00
	SNC 154	Nation	Accrual	Fee Simple	1.4	\$2,924.56
2015	SNC 155	City of Ottawa	Accrual	Fee Simple	46.5	\$198,000.00
	SNC 047	South Stormont	Depletion	Encroachment	0.6	
	SNC 097	North Stormont	Depletion	Conversion	11.5	
	SNC 114	North Dundas	Depletion	Conversion	10.5	
2016	SNC 156	Edwardsburgh/Cardinal	Accrual	Fee Simple	40.1	\$180,000.00
	SNC 007	South Dundas	Depletion	Salvage	0.5	
	SNC 157	North Dundas	Accrual	Fee Simple	22.7	\$222,000.00
	SNC 158	North Dundas	Accrual	Fee Simple	0.2	1.00
	SNC 159	Edwardsburgh/Cardinal	Accrual	Fee Simple	12.1	\$20,000.00
2017	SNC 160	North Dundas	Accrual	Donation	7.0	\$107,000.00
	SNC 161	North Stormont	Accrual	Fee Simple	42.8	\$220,000.00
	SNC 162	Nation	Accrual	Donation	7.0	\$129,000.00
	SNC 163	Clarence/Rockland	Accrual	Fee Simple	20.2	\$40,000.00
Total Accruals					534.9	\$2,108,576.56
Total Depletions					23.1	

2.2 Harvest Summary: 2013 – 2017

Table 2 summarizes harvest activities during the 2013-2017 operating period. The total five-year harvest was 10,325.6 m³ from 187.2 hectares and valued at \$169,733.32. The average annual harvest volume during this period was 2,065.12 m³/year and the average annual value of forest products harvested was \$33,946.66/year.

Table 2
Summary of Five-Year Harvest
2013-2017

Harvest Year	Compartment(s)	Contract Award Date	Species ¹	Estimated Volume (m ³)	Actual Volume (m ³)	Harvest Area (ha.)	Value
2013	40,41,63,64	2011	Pr	2,692.2	3,190.8	32.4	\$81,397.31
			Po	709.7	753.9	5.3	\$5,277.30
2014	35, 36, 37	2012	Pr	375.0	345.9	2.8	\$1,708.09
			Sw	817.9	799.9	15.4	\$3,946.66
2015	21	2015	Hdwd	509.5	292.0	6.1	\$1,603.81
2016	12, 56	2014	Pr	904.7	904.5	7.4	\$13,567.50
			Sw	501.1	236.7	7.6	\$4,731.63
2017	1 (in progress)	2016	Pr	1,560.0	211.5	13.4	\$3,966.38
			Sw	740.0	189.5	19.2	\$3,100.03
			Pw	290.0	0.0	6.9	\$0.00
			Hdwd	400.0	0.0	Incidental	\$0.00
	4,7,9	2014	Sw	3,028.0	2,357.5	40.4	\$37,002.61
			Po	0.0	131.4	Incidental	267.39
			Firewood	0.0	72.1	Incidental	\$564.61
13,23,30 ²	2014	Pr	833.0	457.5	9.4	\$6,862.50	
		Sw	1,337.2	382.4	20.9	\$5,737.50	
Five-Year Total Harvest					10,325.6	187.2	\$169,733.32
Average Annual Harvest					2,065.12	37.4	\$33,946.66

Red Pine revenue varied significantly depending on initial site conditions and stand development stage (first versus second thinning). Highest revenues were received for Red Pine at an average revenue of \$1,421.45 per hectare and ranged from approximately \$600 per hectare to \$2,500 per hectare. The highest revenue was produced from second thinnings.

The average revenue from White Spruce plantation thinning was \$598.26 per hectare and ranged from approximately \$250 per hectare to \$915.00. There was less variation in plantation yield (52-58 m³/ha) between harvest operations. Revenues increased during the operating period.

¹ Pr-Red Pine; Po-Poplar; Sw-White Spruce; Hdwd-Hardwood; Firewood-Firewood

² Contract terminated prior to completion harvest values (grayed) subject to final review

Other species harvested were incidental and quantities insufficient to determine representative averages.

Table 3 provides a summary of changes to the planned harvest schedule during the 2013-2017 operating period. Critical first thinning of Red Pine and White Spruce in Compartment 35 and 36 was added and completed during the operating period.

Most notable among deferred allocation is the dominance of hardwood working groups (and adjacent conifer stands). A sales contract was executed for hardwood selective thinning on Compartment 51 but terminated at the request of the contractor forfeiting deposits. Compartments 54 and 55 were inventoried and marked during the operating period and will be offered for sale during 2018. The remaining compartments have been brought forward to the current operating period.

Table 3
South Nation Forest
Summary of Changes to 2013-2017 Harvest Schedule

Compartment	Treatment	Working Group ³ (Hectares)							Total Area (Ha.)	
		Pr	Pw	Sw	OC	IH	LH	TH		
New Harvest Area Allocation										
35,36	1 st Thinning	2.8		15.4						18.2
Harvest Area Deferred to Next Five-Year Operating Period										
45	Selection with Groups					4.9	37.6			42.5
51	Selection						24.5			24.5
54	Selection							24.7		24.7
55	Selection	2.0			9.9			14.2		26.1
62	2 nd Thinning/Selection	15.6					16.6			32.2
85	1 st Thinning			5.8						5.8
86	1 st Thinning/Selection			13.5			20.3			33.8
Sub-Total		17.6		19.3	9.9	4.9	99.0	38.9		189.6
Net		14.8		3.9	9.9	4.9	99.0	38.9		171.4

2.3 Other Forest Management Activities

2.3.1 Forest Certification

The SNC Forest maintained Forest Stewardship Council (FSC) certification during the operating period under Group Certificate RA-FM/COC-000232. SNC submitted all documents required for independent annual audits under group certification but were not selected for field audit during the operating period.

In 2017, SNC participated in the five-year re-certification audit by submitting all required documentation and was selected for site assessment. The audit identified two non-conformities limited to the community forests not qualified as Small Low-Intensity Managed Forests (SLIMF). The subject of the non-conformities was FSC Principle 6 (Environmental Impacts) and Principle

³ Pr-Red Pine; Pw-White Pine; Sw-White Spruce; OC-Other Conifer; IH-Intolerant Hardwood; LH-Lowland Hardwood; TH-Tolerant Hardwood

9 (High Conservation Value Forests). The non-conformities will be addressed during the 12-month period following the audit.

2.3.2 Invasive Species Control

Presence of the invasive species Emerald Ash Borer (*Agrilus planipennis*) was confirmed during the operating period (2016). In 2017, SNC partnered with the Canadian Forest Service to control the spread of Emerald Ash Borer in eastern Ontario. Three species of parasitoid wasps were released on two SNC Forest compartments. Releases occurred every two weeks over a twenty-week period. The parasitic wasps released included *Tetrestichus planipeenisi* (larval stage), *Oobius agrili* (larval stage) and *Spathius galinae* (adult stage) and the numbers released were 9,758; 1,500 and 726, respectively.

SNC continued a partnership with the Ontario Federation of Anglers and Hunters (OFAH) which included monitoring and control of several invasive species. Invasive species monitoring and control activities are summarized in Table 4. SNC continues to monitor and control incidental populations of Dog-Strangling Vine and Common Buckthorn. Garlic mustard is a known local invasive plant but has not been discovered on SNC property.

Table 4
South Nation Forest
Summary of Invasive Species Monitoring and Control

Year	Comp.	Dog-Strangling Vine			Common Buckthorn		
		No. Occurrences	Control		No. Occurrences	Control	
			Mechanical	Chemical		Mechanical	Chemical
2013							
2014	117	2	Yes	Yes	1	No	No
2015							
2016	001	1	Yes	No	1	No	No
2017	001	1	Yes	No	1	No	No
	097	1	Yes	No			
	117	1	No	No			
	156	1	Yes	No			

3 FIVE-YEAR OPERATING PLAN 2018-2022

To ensure long-term sustainability, an annual harvest level that could be continued indefinitely without exceeding the productive capacity of the forest is determined. One method is to use forest area by forest unit (single or groups of species with similar biological characteristics) to determine an Allowable Harvest Area (AHA). The AHA is calculated as follows:

$$\text{AHA (ha./yr.)} = \frac{\text{Area of Forest Unit (ha.) X Harvest Eligibility (\%)}}{\text{Cutting Cycle (yrs.)}}$$

Cutting cycle is the term used to describe the length of time between treatments. The length of time between treatments varies by species and silvicultural treatment. The proportion of eligible harvest or harvest eligibility is an estimate of the area that is likely to support a commercial harvest. Access, drainage, and current forest condition may all affect the harvest eligibility.

3.1 Annual Harvest Area

The harvest area was calculated for the current operating period based on changes to the forest area (acquisitions/depletions), recent inventories and changes to forest management objectives. The AHA by forest unit for the 2018-2022 operating period is presented in Table 5.

TABLE 5
South Nation Forest
Annual Harvest Area (AHA) By Forest Unit

Forest Unit	Silvicultural Treatment	Productive Area (Ha.)	Eligibility (%)	Cutting Cycle (years)	AHA (Ha.)	Five-Year Harvest Area (Ha.)
Red Pine	Selection Uniform Shelterwood	575.2	40	15	15.3	76.5
White Pine	Selection	303.3	40	15	8.1	40.5
White Spruce	Selection	1,681.1	40	20	33.6	168.0
Other Conifer		683.0	20	20	6.8	34.0
Intolerant Hdwd	Thinning Clear-cut	2,153.9	15	60	5.4	27.0
Lowland Hdwd	Single Tree-Selection Group Selection Uniform Shelterwood	2,329.9	30	20	34.9	174.5
Tolerant Hdwd.	Single-Tree Selection Group Selection	301.6	25	20	3.8	19.0

The AHA will increase almost 2.5 times to 108 hectares annually. Hardwood forest units account for the largest proportion of the change in the AHA.

3.2 Selection of Harvest Areas

Table 6 provides a summary of areas that were selected for harvest during the 2018-2022 operating period. Priority was given to areas that have not received treatment or carried forward from the previous operating period. Individual harvest area maps are provided in Appendix A.

Compartment	Treatment	Working Group (Hectares)							Total Area (Ha.)
		Pr	Pw	Sw	OC	IH	LH	TH	
5	Thinning	11.8	2.0	8.3					22.1
7	Thinning	2.6		15.7					18.3
8	Thinning	7.3		3.8			8.9		20.0
16	Thinning			3.7	11.9				15.6
17	Thinning			5.3					5.3
24	Thinning			6.6	10.8	4.1			21.5
25	Thinning	5.4		25.0					30.4
26	Thinning			7.2					7.2
29	Thinning			29.4					29.4
33	Thinning	7.6	4.6						12.2
45	Thinning					4.9	37.6		42.5
46	Thinning			20.2					20.2
47	Thinning			12.0					12.0
48	Thinning	1.5					16.5		18.0
51	Thinning						24.5		24.5
52	Thinning							33.1	33.1
53	Thinning			22.6					22.6
54	Thinning				9.9				9.9
61	Thinning						44.0		44.0
62	Thinning	15.6					16.6		32.2
69	Thinning	1.8	7.8						9.6
75	Thinning	8.3							8.3
80	Thinning		3.2	7.8		20.4			31.4
85	Thinning			5.8					5.8
86	Thinning			13.5			20.3		33.8
87	Thinning		6.4						6.4
94	Thinning	9.5	24.5				8.9		42.9
Total		71.4	48.5	186.9	32.6	29.4	177.3	33.1	579.2

3.3 High Conservation Values

Forest values considered outstanding and critically important because of their high environmental, biodiversity, or landscape values are termed High Conservation Values (HCV). Silvicultural prescriptions shall include identification of areas of concern within the areas of forest operations. An Area of Concern (AOC) is an area adjacent to an identified HCV that may be affected by some (or all) aspects of forest management activity. The most recent version of the High Conservation Values Report is appended to operating plan as Appendix B.

Appendix A
South Nation Forest
High Conservation Values Report

High Conservation Value Forest Report – Great Lakes-St. Lawrence Forest Region

This framework is designed to help identify potential High Conservation Value Forests (HCVF) in the context of achieving certification to FSC Canada’s Great Lakes/St. Lawrence Standard. It is based on a framework originally developed by Pro-Forest and since that time it has been applied in many forest regions around the world.

The framework is organized as a table covering six categories derived from the definition of HCVFs from the FSC standards. The six categories are:

- Category 1: Forest areas containing globally, regionally or nationally significant concentrations of biodiversity values (e.g., endemism, endangered species, refugia);
- Category 2: Forest areas containing globally, regionally or nationally significant large landscape level forests, contained within, or containing the management unit, where viable populations of most if not all naturally occurring species exist in natural patterns of distribution and abundance;
- Category 3: Forest areas that are in or contain rare, threatened or endangered ecosystems;
- Category 4: Forest areas that provide basic services of nature in critical situations (e.g., watershed protection, erosion control);
- Category 5: Forest areas fundamental to meeting basic needs of local communities (e.g., subsistence, health); and,
- Category 6: Forest areas critical to local communities’ traditional cultural identity (areas of cultural, ecological, economic or religious significance identified in cooperation with such local communities).

Each category has a question or questions (the left-hand column below) that aim to identify whether the management unit contains any of the values relevant to each category. Negative answers to these questions mean that the forest operation likely does not include High Conservation Values (HCV) in that category. Positive answers lead to further investigation. The second column explains the rationale for the conservation of a value. The third column provides sources of information on these values (e.g., COSEWIC lists in Canada, Conservation Data Centre lists, etc.). The fourth column provides further guidance to help determine if an area might be considered a High Conservation Value Forest.

Scale and diversity in the Great Lakes/St. Lawrence region: This toolkit is designed to be used across the GLSL region, and applied in small private forests, on community forests and in large public forests. The manager may be operating in a highly fragmented landscape, where the stands with exceptionally high conservation value may be very small and require a high degree of protection, or in a much more intact landscape, where the HCVF toolkit can help to identify relatively broad features across the landscape in which the changes to management activities may be relatively modest although nevertheless significant at the landscape level. Furthermore, these diverse management regimes occur across a range of ecosystem types, from the Carolinian forests of southwestern Ontario through the mixed wood forests of southern Ontario and Québec and northwards to forests that are in the boreal transition zone. This diversity means that HCVF assessments will be carried out differently on these various forests, and will produce vastly different results. In developing a toolkit that is intended to apply across this diversity it is not possible to provide specific thresholds or numerical responses to questions such as “What is the minimum size of a HCVF area?” or “What percentage of a management unit should be designated as HCVFs?”

“Critical habitat” and “Essential Habitat.” In this Toolkit, and elsewhere in this standard, the term “Critical habitat” is used only in the context of Species at Risk that have been listed by federal or provincial agencies. It is used in this narrow sense in order to align the use of the term in this Standard with the legal requirements that exist in federal and provincial legislation pertaining to maintaining and restoring critical habitat for species at risk. “Essential habitat” has the same meaning as “critical habitat,” but applies to all wildlife species, and not only to rare, threatened or endangered species.

HCV SUMMARY FOR THE SOUTH NATION FOREST		Total (Hectares)
HCV1	Forest areas containing globally, regionally or nationally significant concentrations of biodiversity values (e.g. endemism, endangered species, refugia).	2,589.7
HCV2	Forest areas containing globally, regionally or nationally significant large landscape level forests, contained within, or containing the management unit, where viable populations of most if not all naturally occurring species exist in natural patterns of distribution and abundance.	0.0
HCV3	Forest areas that are in or contain rare, threatened or endangered ecosystems.	0
HCV4	Forest areas that provide basic services of nature in critical situations (e.g. watershed protection, erosion control).	50.0
HCV5	Forest areas fundamental to meeting basic needs of local communities (e.g. subsistence, health).	0.0
HCV6	Forest areas critical to local communities' traditional cultural identity (areas of cultural, ecological, economic or religious significance identified in cooperation with such local communities).	114.0
	Total Area	2,753.7

Item	Rationale	Sources of information	Further Guidance	SNC HCV:						
				Comp. No.	Value	Year	Stakeholder	Management Guidance	Monitoring	Area (Ha)
Category 1) Forest areas containing globally, regionally or nationally significant concentrations of biodiversity values										
Forest contains concentration of Species at Risk	SARA	SNC FMP 2018 - 2037	SNC Species at Risk Biologist, Algonquin First Nations	Confidential	American ginseng	2005	OMNR	Species Recovery Plan	Annual	7.0
Forest contains legally designated Provincial conservation area Forest contains conservation area designated in regional land use or conservation plan	Provincially Significant Wetland (PSW)	SNC FMP 2018 - 2037	Natural Values Information System (NRVIS). OMNR. County Official Plans	26 39 155 159	Morewood Bog Pendleton Swamp West Osgoode Wetland SNR Wetland	2011	OMNR Municipalities	Consultation with OMNR Species at Risk Biologist and/or District Ecologists as required, OMNR Habitat Protection Guidelines	Monitoring not required unless work is undertaken in the area.	66.0
Forest contains legally designated Provincial conservation area Forest contains conservation area designated in regional land use or conservation plan	Provincially Significant Wetland (PSW) Area on Natural & Scientific Interest (ANSI)	SNC FMP 2018 - 2037	Natural Values Information System (NRVIS). OMNR. County Official Plans	104,147	Hoasic Creek Wetland	2011	OMNR Municipalities	Consultation with OMNR Species at Risk Biologist and/or District Ecologists as required, OMNR Habitat Protection Guidelines	Monitoring not required unless work is undertaken in the area.	43.9
Forest contains legally designated Provincial conservation area Forest contains conservation area designated in regional land use or conservation plan	Provincially Significant Wetland (PSW) Candidate Area on Natural & Scientific Interest (ANSI)	SNC FMP 2018 - 2037	Natural Values Information System (NRVIS). OMNR. County Official Plans	98, 99 89, 90, 91, 92 119	Newington Bog Winchester Swamp Letrim Wetland	2011	OMNR Municipalities	OMNR Habitat Protection Guidelines; consultation with District Ecologist	Monitoring not required unless work is undertaken in the area.	189.3

Item	Rationale	Sources of information	Further Guidance	SNC HCV:						
Category 1) Forest areas containing globally, regionally or nationally significant concentrations of biodiversity values				Comp. No.	Value	Year	Stakeholder	Management Guidance	Monitoring	Area (Ha)
<p>Forest contains legally designated Provincial conservation area</p> <p>Forest contains conservation area designated in regional land use or conservation plan</p> <p>Forest supports regionally significant seasonal concentration of species</p>	<p>Provincially Significant Wetland (PSW)</p> <p>Area on Natural & Scientific Interest (ANSI)</p> <p>Early Moose Wintering Area</p> <p>Locally rare ecosystem (Boreal)</p>	SNC FMP 2018 - 2037	<p>Mohawks of Akwesasne and Algonquin First Nations. Natural Values Information System (NRVIS). OMNR.</p> <p>Alfred Bog: An Ecological Study. 1991</p>	122	Black Spruce Bog		OMNR Municipalities	Consultation with OMNR Wildlife Biologist and/or District Ecologists, OMNR Habitat Protection Guidelines	Monitoring not required unless work is undertaken in the area.	60.7
<p>Forest contains legally designated Provincial conservation area</p> <p>Forest contains conservation area designated in regional land use or conservation plan</p> <p>Forest supports regionally significant seasonal concentration of species</p>	<p>Provincially Significant Wetland (PSW)</p> <p>Area of Natural & Scientific Interest Deer Yard</p>	South Nation Conservation Forest Management Plan 2018 - 2037	<p>Natural Values Information System (NRVIS). OMNR.</p> <p>County Official Plans</p>	26 89, 90, 91 98	<p>Morewood Bog</p> <p>Winchester Swamp</p> <p>Newington Bog</p>	2011	OMNR Municipalities	Consultation with OMNR Species at Risk Biologist and/or District Ecologists as required, OMNR Habitat Protection Guidelines	Monitoring not required unless work is undertaken in the area.	57.9

Item	Rationale	Sources of information	Further Guidance	SNC HCV:						
Category 1) Forest areas containing globally, regionally or nationally significant concentrations of biodiversity values				Comp. No.	Value	Year	Stakeholder	Management Guidance	Monitoring	Area (Ha)
Forest contains a locally significant conservation area identified in a regional land use plan	Locally Significant Wetland	SNC FMP 2018 - 2037	Natural Values Information System (NRVIS). OMNR. County Official Plans	29 69, 70, 71, 73	Baltic Corner Swamp Dickenson Creek Swamp	2011	OMNR Municipalities	OMNR Habitat Protection Guidelines; consultation with District Ecologist	Monitoring not required unless work is undertaken in the area.	187.5
Forest supports regionally ecosystem	Candidate Area of Natural & Scientific Interest	SNC FMP 2018 - 2037	Natural Values Information System (NRVIS). OMNR. County Official Plans	106	Hallville Forest	2011	OMNR Municipalities	Consultation with OMNR	Monitoring not required unless work is undertaken in the area.	3.9
Forest contains regionally significant seasonal concentration of species	Addresses wildlife habitat requirements critical to maintaining population viability (regional 'hot spots')	South Nation Conservation Forest Management Plan 1998 - 2018	Natural Values Information System (NRVIS). OMNR.	5, 7, 15, 19, 25, 27, 28, 56, 68, 79, 142	Deer Yard	2002	OMNR Local community	Deer Management Guidelines	Monitoring not required unless work is undertaken in the area.	268.4
Forest contains legally designated Provincial conservation area Forest contains conservation area designated in regional land use or conservation plan Forest contains regionally significant seasonal concentration of species	Provincially Significant Wetland (PSW) Early Moose Wintering Area	South Nation Conservation Forest Management Plan 1998 - 2018	Natural Values Information System (NRVIS). OMNR. County Official Plans Mohawks of Akwesasne and Algonquin First Nations	28 38, 39, 63, 152 58, 59, 60, 105	Wolf Creek Swamp Pendleton Swamp Hammond Swamp	2011	OMNR Municipalities Local community	Consultation with OMNR Wildlife Biologist and/or District Ecologists as required, OMNR Habitat Protection Guidelines	Monitoring not required unless work is undertaken in the area.	144.3

Item	Rationale	Sources of information	Further Guidance	SNC HCV:						
Category 1) Forest areas containing globally, regionally or nationally significant concentrations of biodiversity values				Comp. No.	Value	Year	Stakeholder	Management Guidance	Monitoring	Area (Ha)
Forest contains regionally significant seasonal concentration of species	Addresses wildlife habitat requirements critical to maintaining population viability (regional 'hot spots')	South Nation Conservation Forest Management Plan 1998 - 2018	Natural Values Information System (NRVIS). OMNR. Mohawks of Akwesasne and Algonquin First Nations,	14, 15, 18, 19, 27, 31, 28, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 49, 50, 53, 57, 58, 59, 60, 63, 64, 66, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 85, 86, 87, 88, 105, 120, 122, 142, 144, 146, 152, 162, 163	Moose Early Wintering Area	2011	OMNR Local community	Consultation with OMNR Wildlife Biologist and/or District Ecologists as required, OMNR Habitat Protection Guidelines	Monitoring not required unless work is undertaken in the area.	1503.1
Forest contains regionally significant seasonal concentration of species Forest contains a locally significant conservation area identified in a regional land use plan	Locally Significant Wetland Moose Early Wintering Area	South Nation Conservation Forest Management Plan 1998 - 2018	Natural Values Information System (NRVIS). OMNR. Mohawks of Akwesasne and Algonquin First Nations,	69, 70, 71, 73 76, 78 80, 81	Dickenson Creek Swamp Riceville Swamp Crown 29 Swamp	2011	OMNR Municipalities	Consultation with OMNR Wildlife Biologist and/or District Ecologists as required, OMNR Habitat Protection Guidelines	Monitoring not required unless work is undertaken in the area.	57.7

Item	Rationale	Sources of information	Further Guidance	EOMF HCV:						
				Comp.	Value	Year	Stakeholder	Management Guidance	Monitoring	Area (Ha)
Category 2) Forest areas containing globally, regionally or nationally significant large landscape level forests, contained within, or containing the management unit, where viable populations of most if not all naturally occurring species exist in natural patterns of distribution and abundance										
N/A										

Item	Rationale	Sources of information	Further Guidance	SNC HCV:						
				Comp.	Value	Year	Stakeholder	Management Guidance	Monitoring	Area (Ha)
Category 3) Forest areas that are in or contain rare, threatened or endangered ecosystems										
N/A										

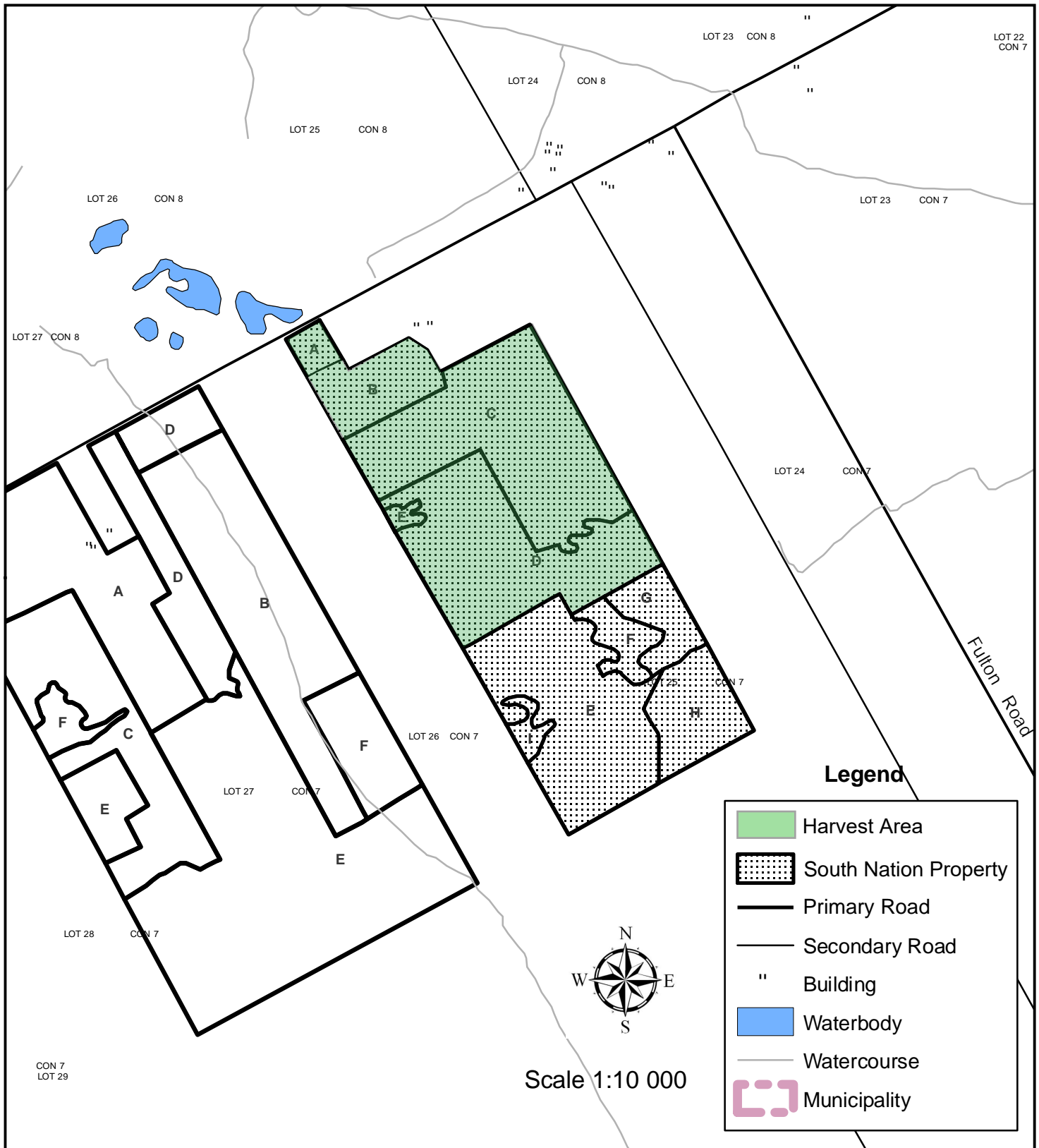
Item	Rationale	Sources of information	Further Guidance	EOMF HCV:						
				Comp.	Value	Year	Stakeholder	Management Guidance	Monitoring	Area (Ha)
Category 4) Forest areas that provide basic services of nature in critical situations (e.g., watershed protection, erosion control)										
These protected lands are located in a land slide prone area	To prevent the loss of these lands into the river and to protect people and property from damage by keeping the forest cover on these lands	South Nation Conservation Forest Management Plan 1998 - 2018	Mohawks of Akwesasne and Algonquin First Nations,	35, 36, 142, 143	Land slide / erosion	ongoing	South nation Conservation	Planning and engineering regulations	On going	50.0

Item	Rationale	Sources of information	Further Guidance	EOMF HCV:						
				Comp.	Value	Year	Stakeholder	Management Guidance	Monitoring	Area (Ha)
Category 5) Forest areas fundamental to meeting basic needs of local communities (e.g., subsistence, health)										
N/A										









Item	Rationale	Sources of information	Further Guidance	SNC HCV:						
				Comp.	Value	Year	Stakeholder	Management Guidance	Monitoring	Area (Ha)
Category 6) Forest areas critical to local communities' traditional cultural identity (areas of cultural, ecological, economic or religious significance identified in cooperation with such local communities)										
Forest is critical to the cultural identity of local First Nation community	Habitat loss critical to supply of natural resources to preserve culture and traditions	Strategy for the Sustainable Management of Black Ash. SNC. 2006 Culturally significant species	Forest Manager Mohawks of Akwesasne Algonquin First Nations	18, 25, 38, 47, 65	Basket Quality Logs	2006		Black Ash Strategy	Periodic	49.1
Archeological sites, non-First Nations and First Nations	Protection of site in accordance with the Ontario Heritage Act	First Nations, South Nation management plans and the Archaeology Umbrella Protocol	Ministry of Culture and the Algonquin First Nation Mohawk First Nation	17, 18, 34, 38, 72, 117	Archeological sites	2015	local Historians	Consultation with OMNR Partnership Specialist as well as the Ministry of Culture	Ongoing	64.9

Appendix B
South Nation Forest
Forest Operating Plan
2018-2022

Maps of Selected Harvest Areas



Legend

-  Harvest Area
-  South Nation Property
-  Primary Road
-  Secondary Road
-  Building
-  Waterbody
-  Watercourse
-  Municipality



**SOUTH NATION
CONSERVATION**
DE LA NATION SUD

Forest Compartment 5
Lot. NW1/4-25NE1/4-26, Con VII.
Matilda Twp
Roll No. 050600600841000
Dundas County



Legend

-  Harvest Area
-  South Nation Property
-  Primary Road
-  Secondary Road
-  Building
-  Waterbody
-  Watercourse
-  Municipality

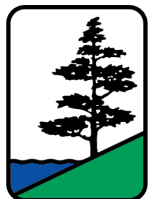
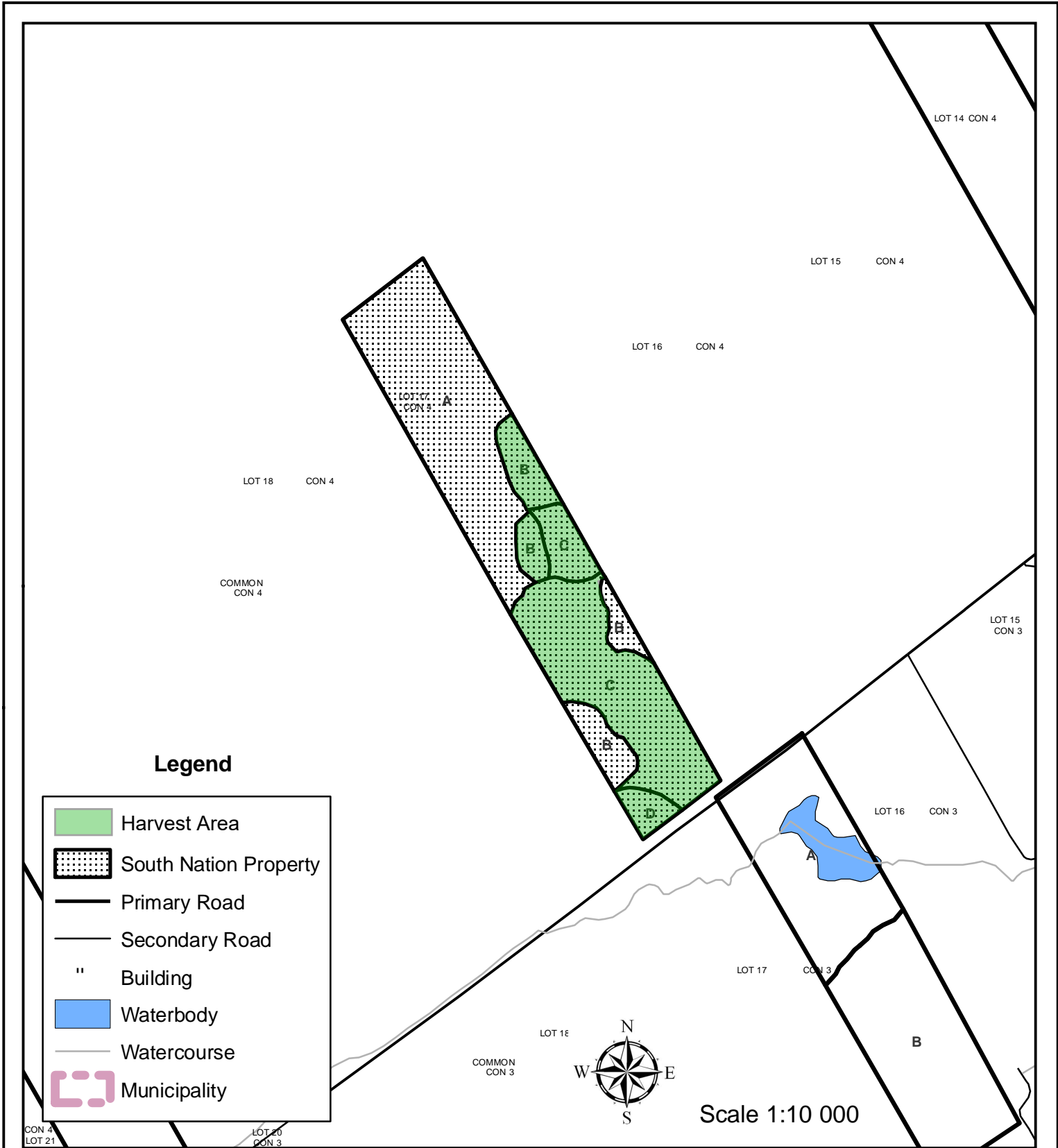


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**SOUTH NATION
CONSERVATION**
DE LA NATION SUD

Forest Compartment 7
Lot. NE1/4027, Con VII
Matilda Twp
Roll No. 050600600843800
Dundas County










SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 8

Lot. SW1/4-17, Con IV
 Edwardsburg Twp
 Roll No. 070170103019200
 Grenville County



Legend

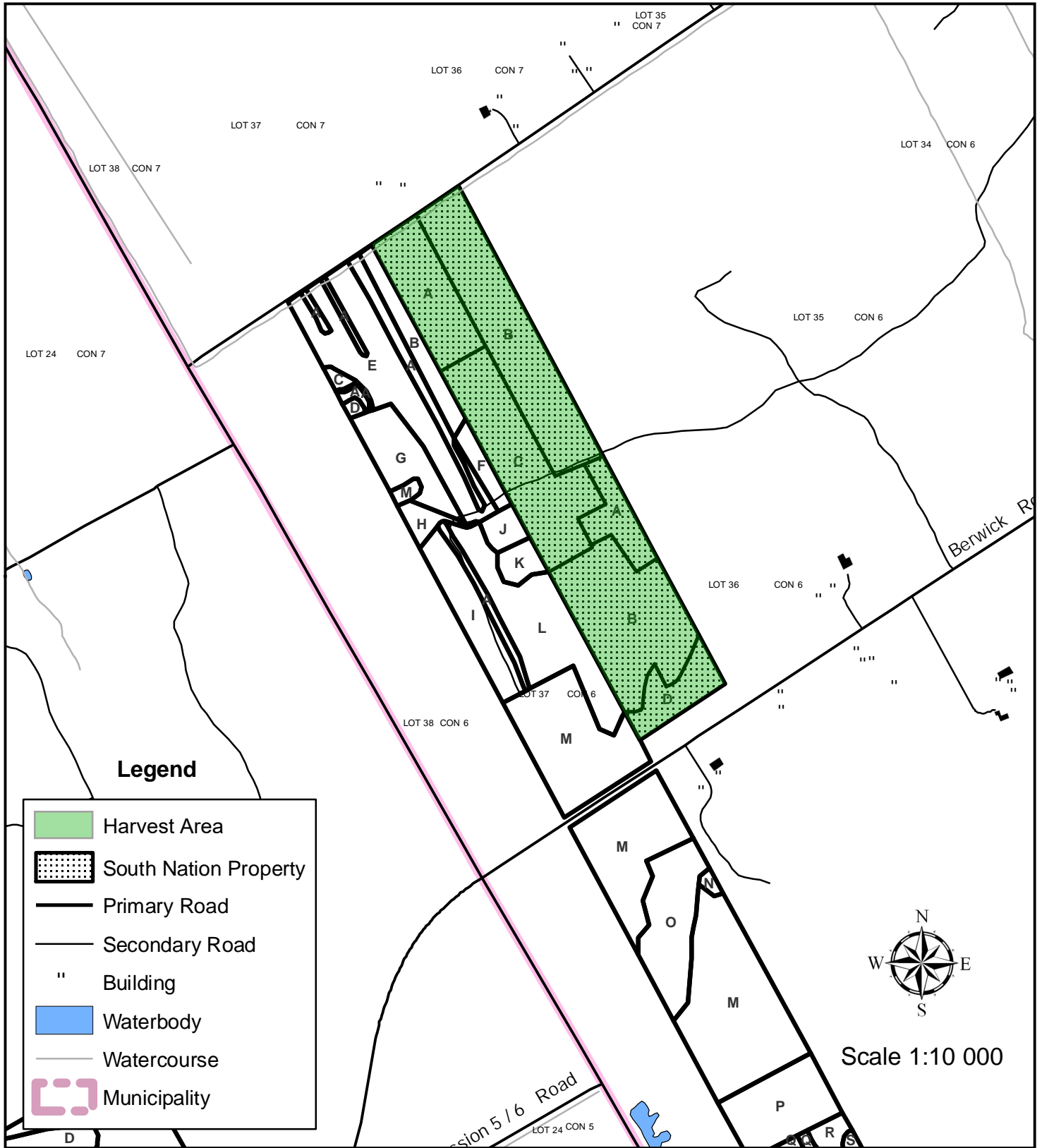
-  Harvest Area
-  South Nation Property
-  Primary Road
-  Secondary Road
-  Building
-  Waterbody
-  Watercourse
-  Municipality

Scale 1:10 000



**SOUTH NATION
CONSERVATION**
DE LA NATION SUD

Forest Compartment 16/17
Lot. E1/2-11, Con IV
Roxborough Twp.
Roll No. 041101600666000
Stormont County



Legend

- Harvest Area
- South Nation Property
- Primary Road
- Secondary Road
- Building
- Waterbody
- Watercourse
- Municipality

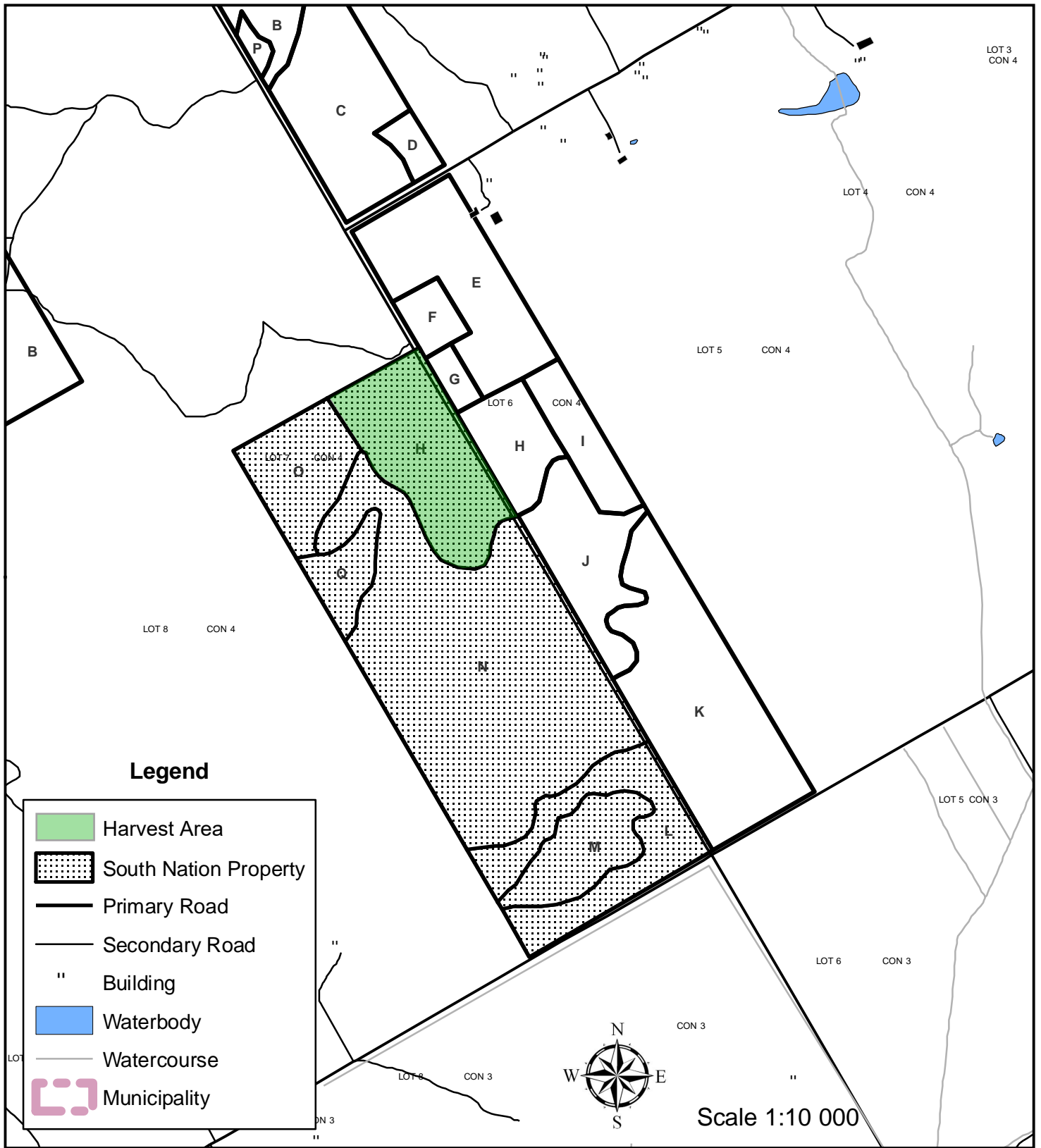


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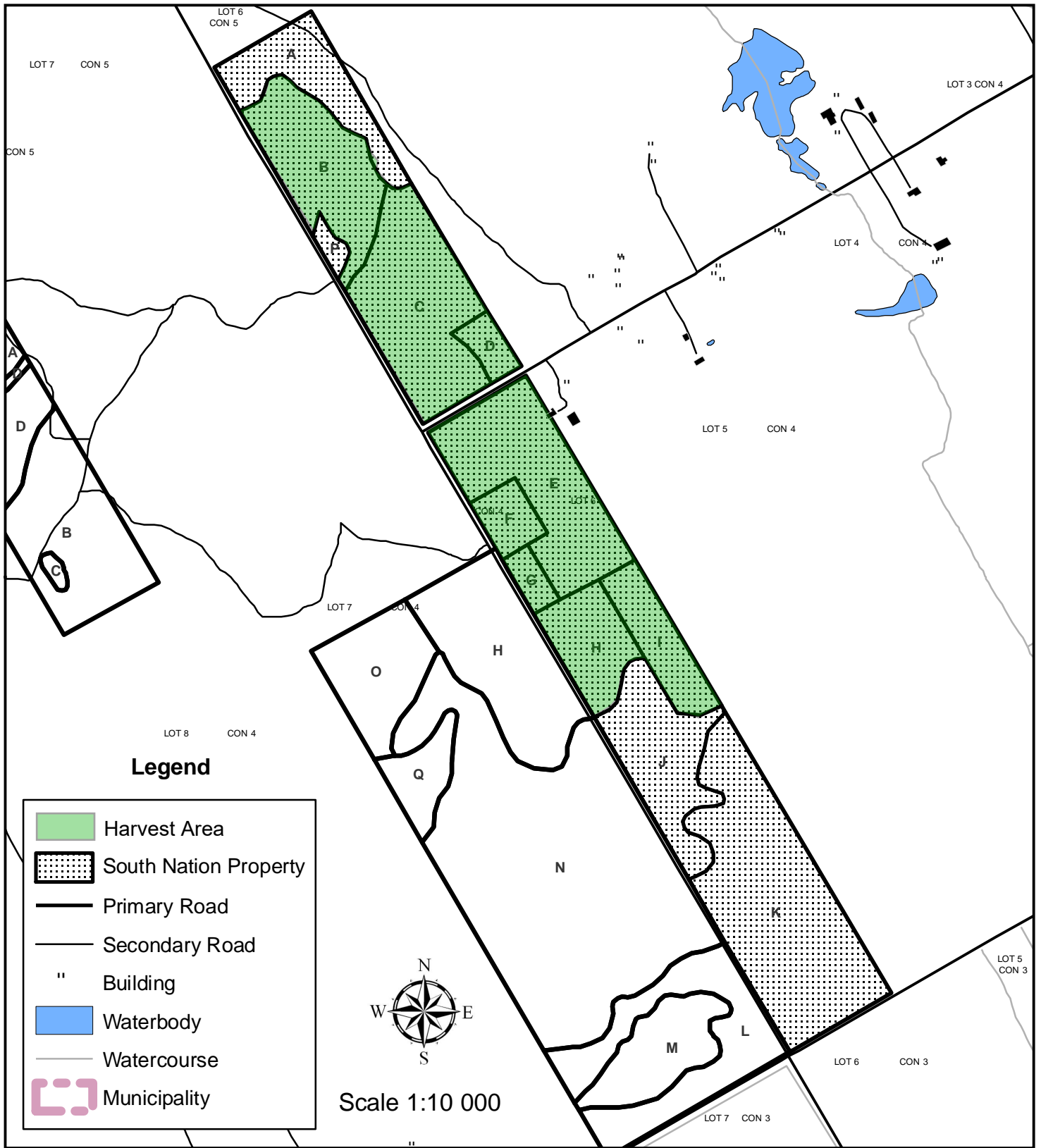
**SOUTH NATION
CONSERVATION**
DE LA NATION SUD

Forest Compartment 24
Lot. NE1/4-37, Con VI
Roxborough Twp.
Roll No. 041101600924000
Stormont County



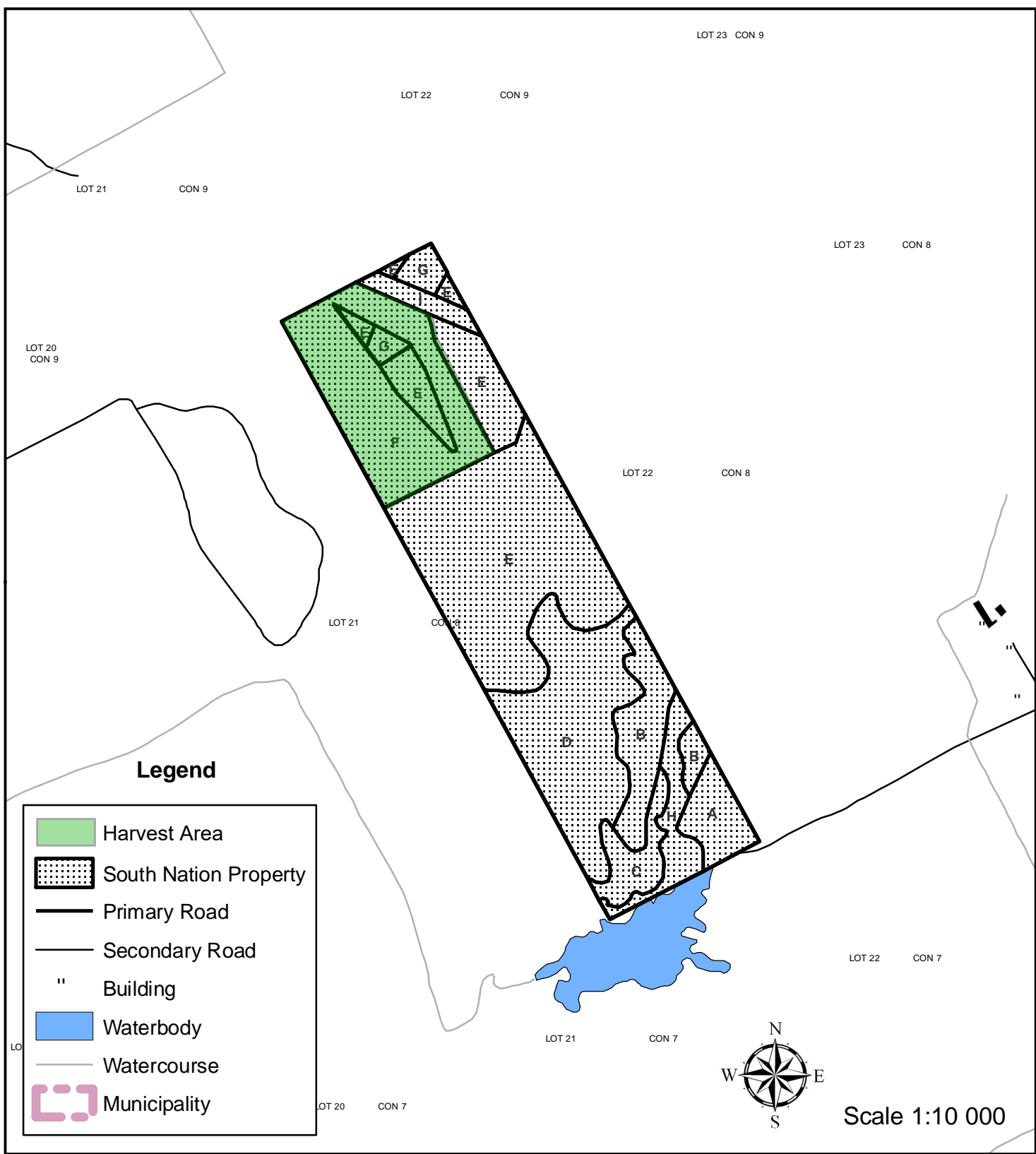
SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 25
 Lot. W1/2-6, Con IV
 Roxborough Twp.
 Roll No. 041101600660000
 Stormont County



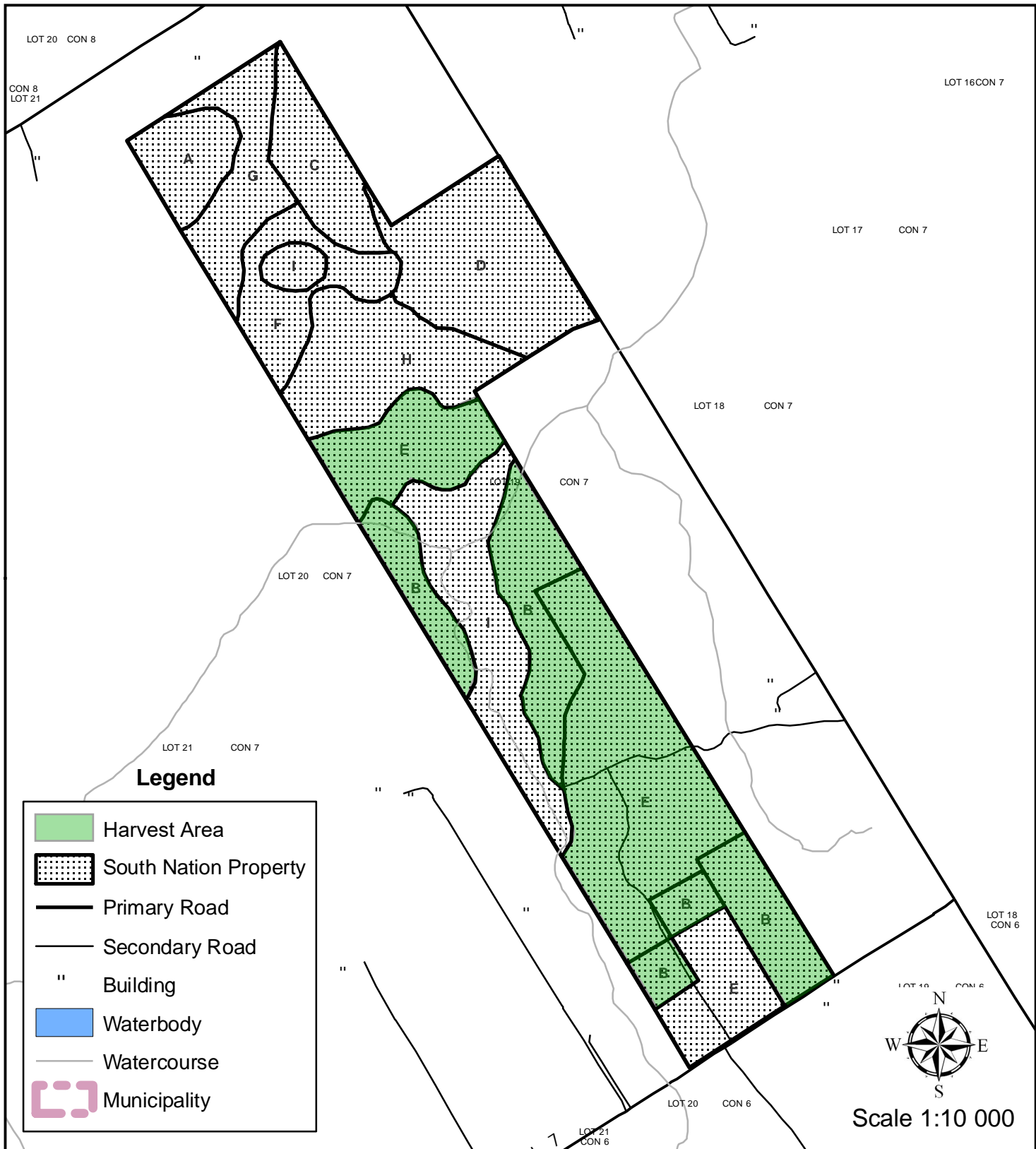
SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 25-A
 Lot. W1/2-6, Con IV
 Roxborough Twp.
 Roll No. 041101600657000
 Stormont County



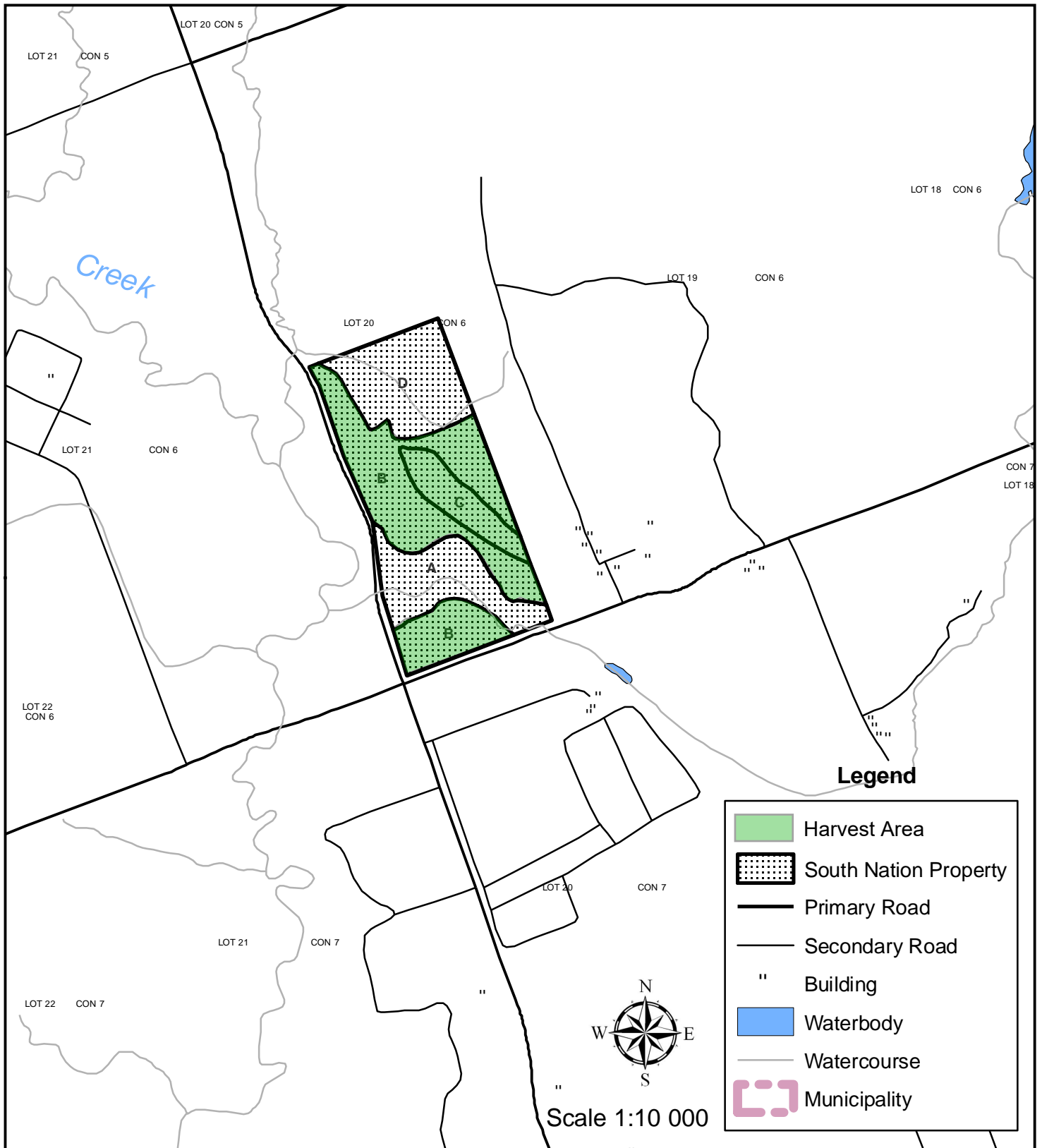
SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 26
 Lot E1/2 – 21, Con VIII
 Winchester Twp.
 Roll No. 051101600823000
 Dundas County



SOUTH NATION
CONSERVATION
 DE LA NATION SUD

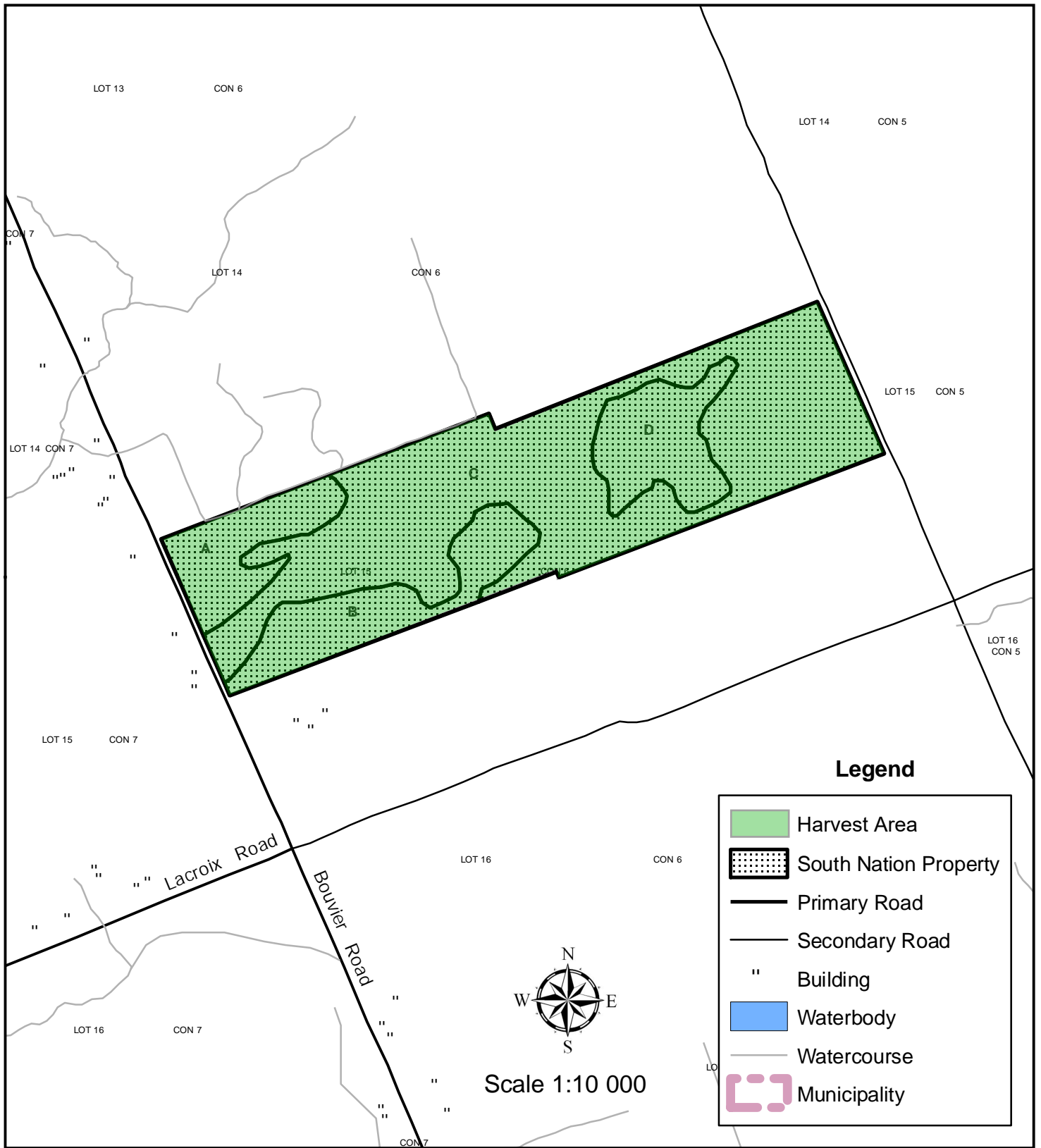
Forest Compartment 29
 Lot. Pts. 19 & 20, Con VII
 Kenyon Twp
 Roll No. 011101101167000
 Glengarry County











**SOUTH NATION
CONSERVATION
DE LA NATION SUD**

Forest Compartment 33

Lot. Pt. W1/2-20; Pt. SW1/4-20, Con VI
North Plantagenet Twp.
Roll No. 023102000605400
Prescott County



Legend

-  Harvest Area
-  South Nation Property
-  Primary Road
-  Secondary Road
-  Building
-  Waterbody
-  Watercourse
-  Municipality



**SOUTH NATION
CONSERVATION
DE LA NATION SUD**

Forest Compartment 45
 Lot. S1/2 N1/2-15; N1/4-15, Con VI
 Clarence Twp.
 Roll No. 031601600606600
 Russell County



SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 46
 Lot. SE1/4-13, Con XV
 South Plantagenet Twp.
 Roll No. 021202601504200
 Prescott County



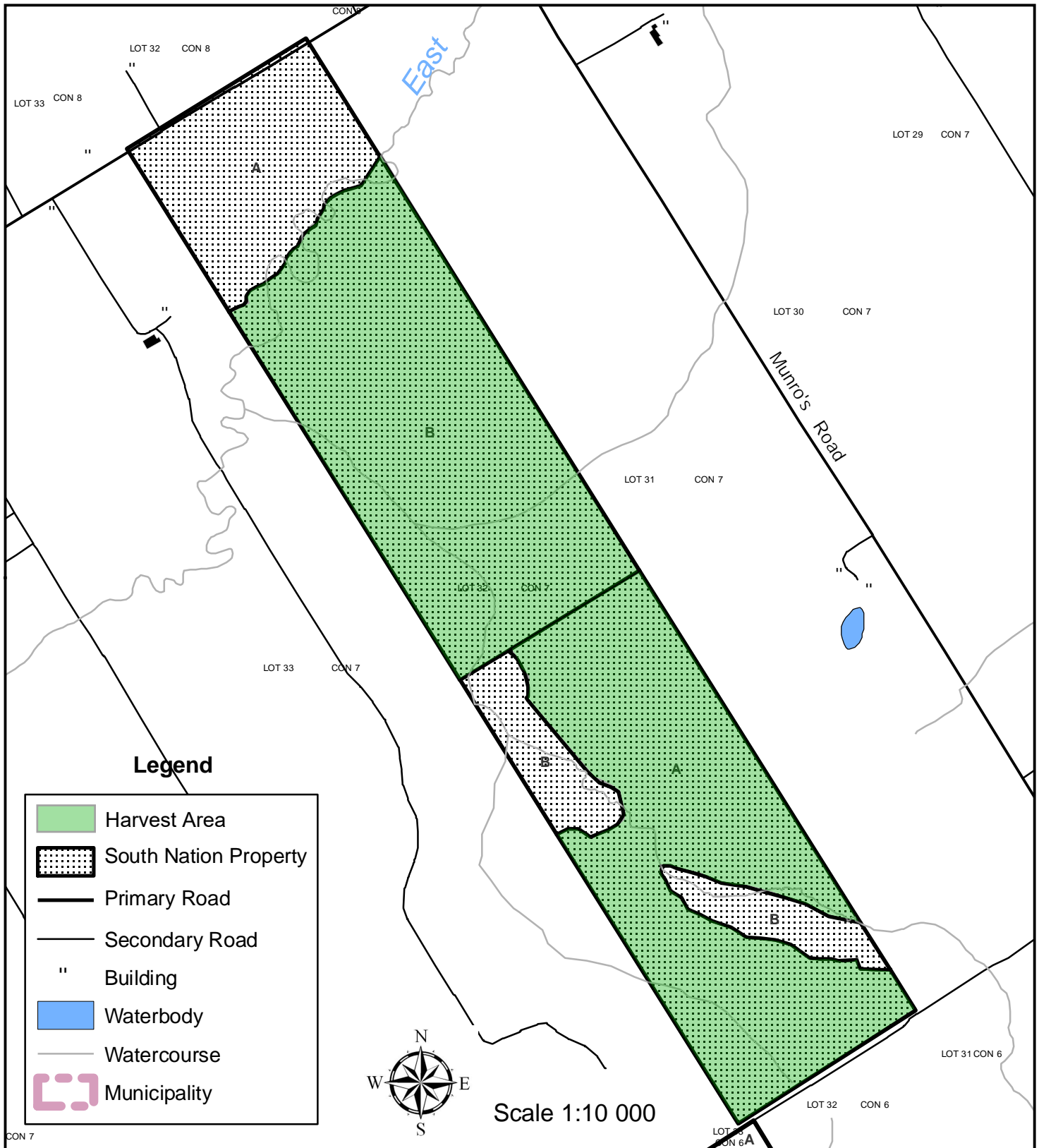
SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 47
 Lot. W1/2 E1/2-31, Con VIII
 Osnabruck Twp.
 Roll No. 040600602405000
 Stormont County



SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 48
 Lot. S.E.1/4-31, Con II
 North Plantagenet Twp.
 Roll No. 023102000210300
 Prescott County



Legend

-  Harvest Area
-  South Nation Property
-  Primary Road
-  Secondary Road
-  Building
-  Waterbody
-  Watercourse
-  Municipality



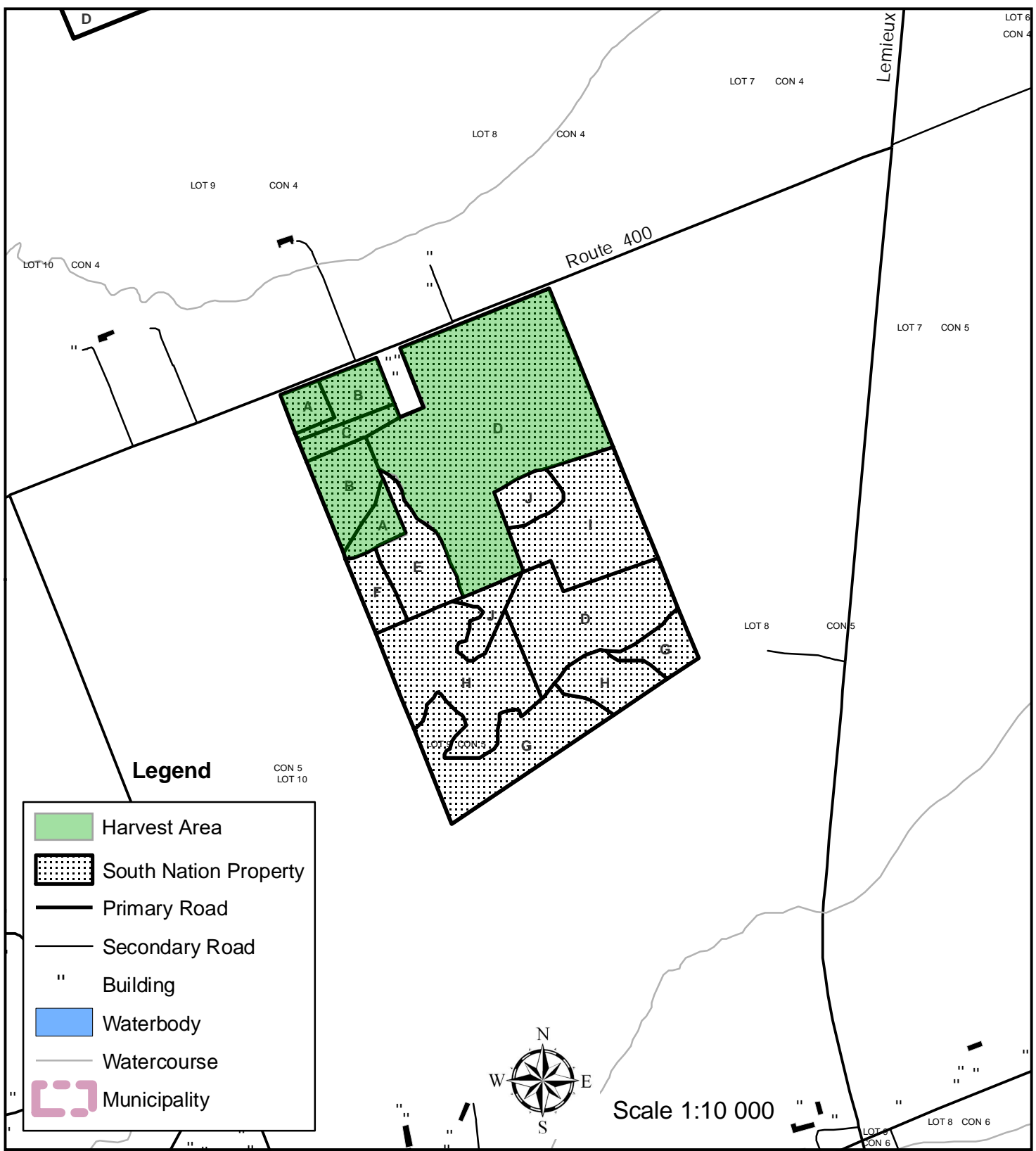
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SOUTH NATION
CONSERVATION
 DE LA NATION SUD

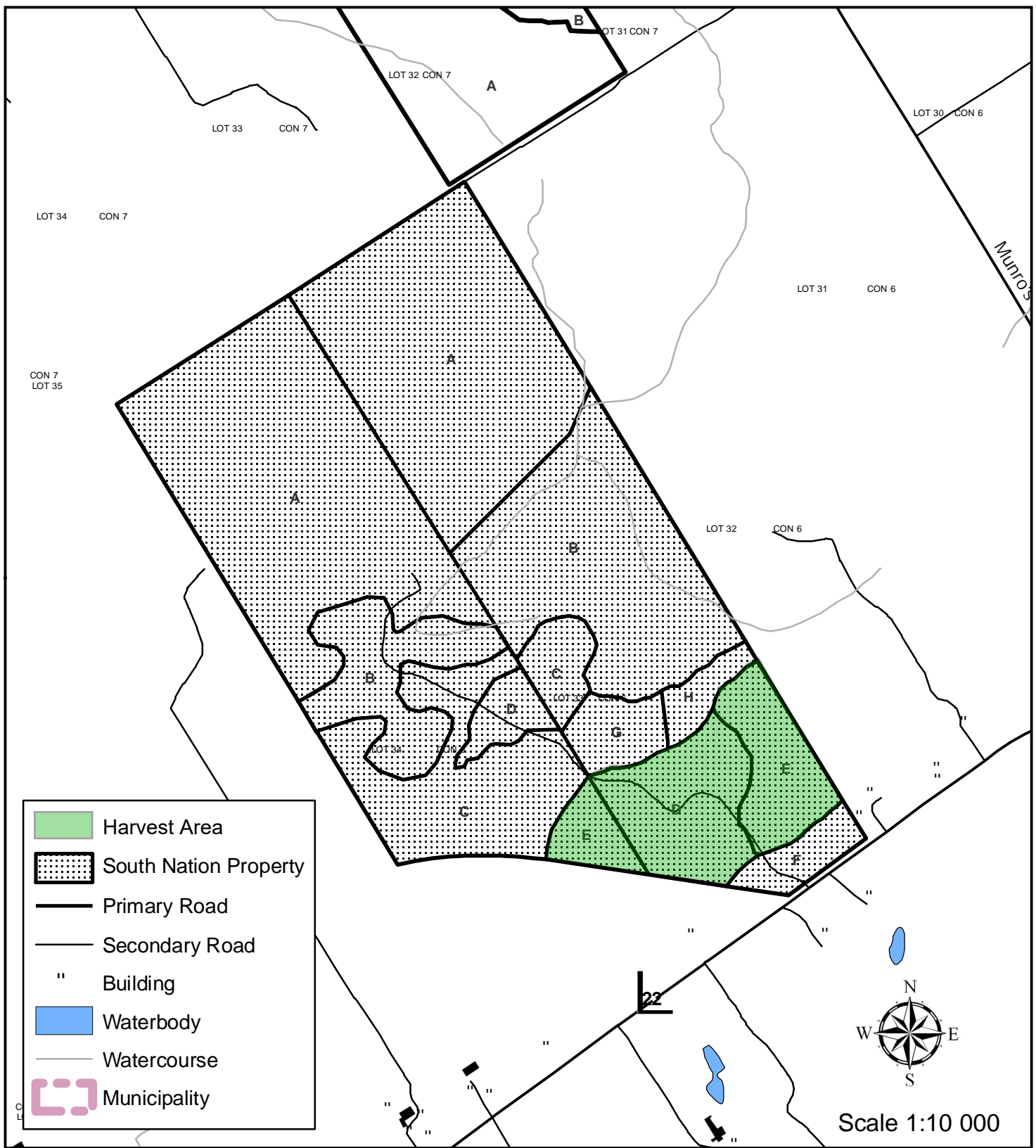
Forest Compartment 51/52

Lot. 32, Con VII, Kenyon Twp.
 Roll No. 011101101195400
 Glengarry County



SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 53
 Lot. Pt. N1/2-9, Con V
 Cambridge Twp.
 Roll No. 021200100501805
 Russell County



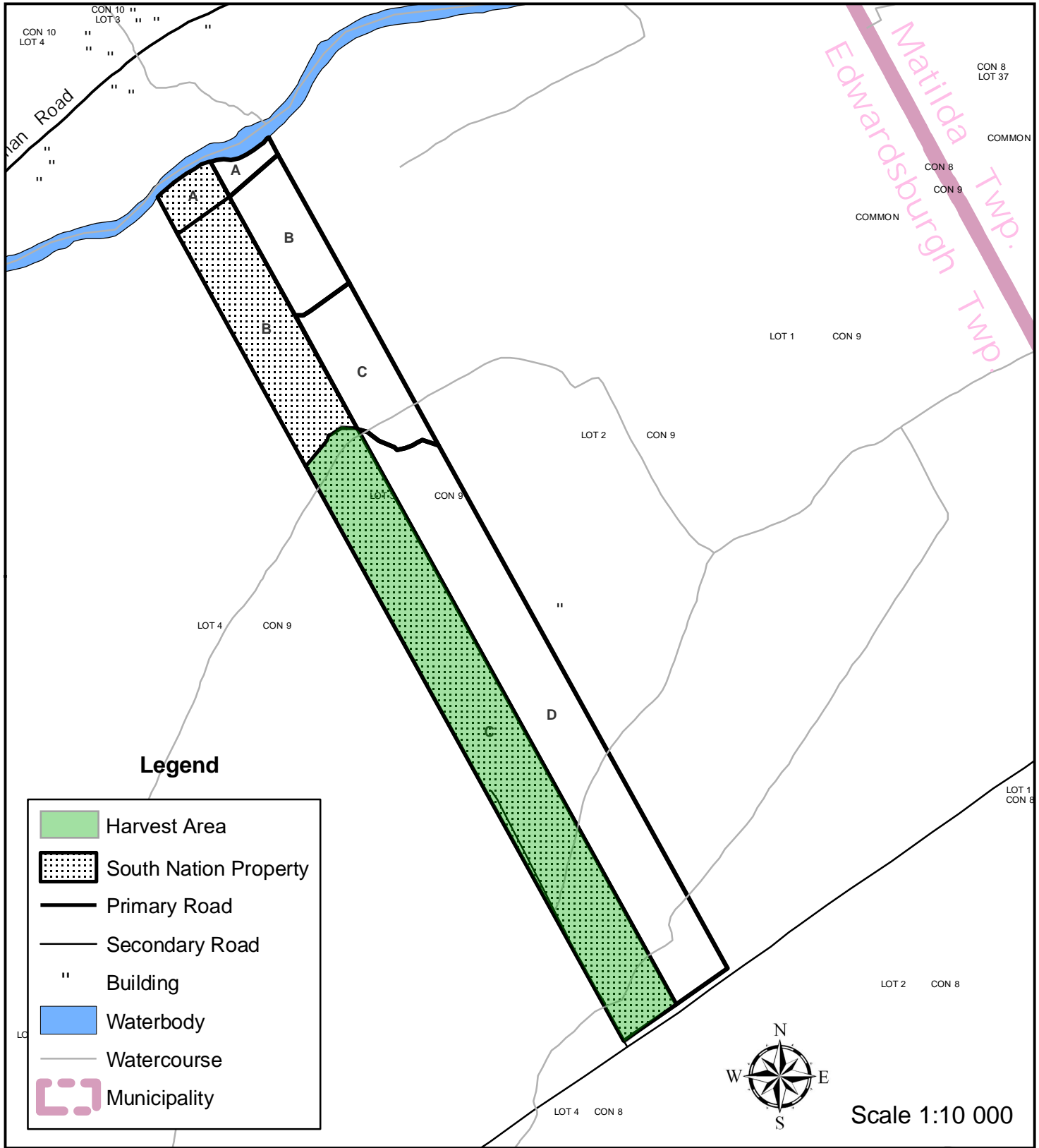
SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 54/55

Lot. N1/2-34; Pt. W1/2 & Pt. E1/2 33, Con VI
 Kenyon Twp.

Roll No. 011101101115000

Glengarry County



Legend

-  Harvest Area
-  South Nation Property
-  Primary Road
-  Secondary Road
-  Building
-  Waterbody
-  Watercourse
-  Municipality

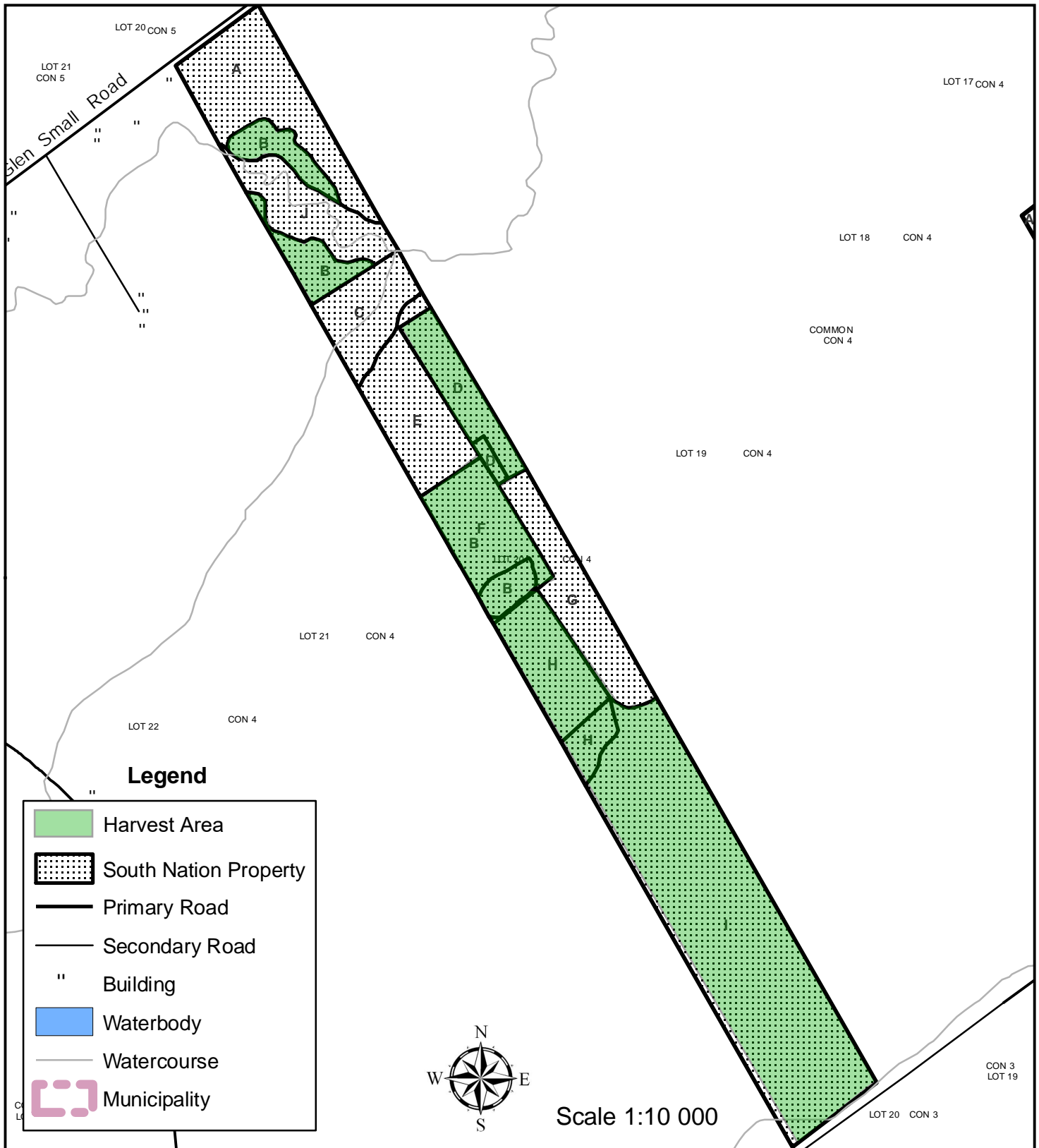


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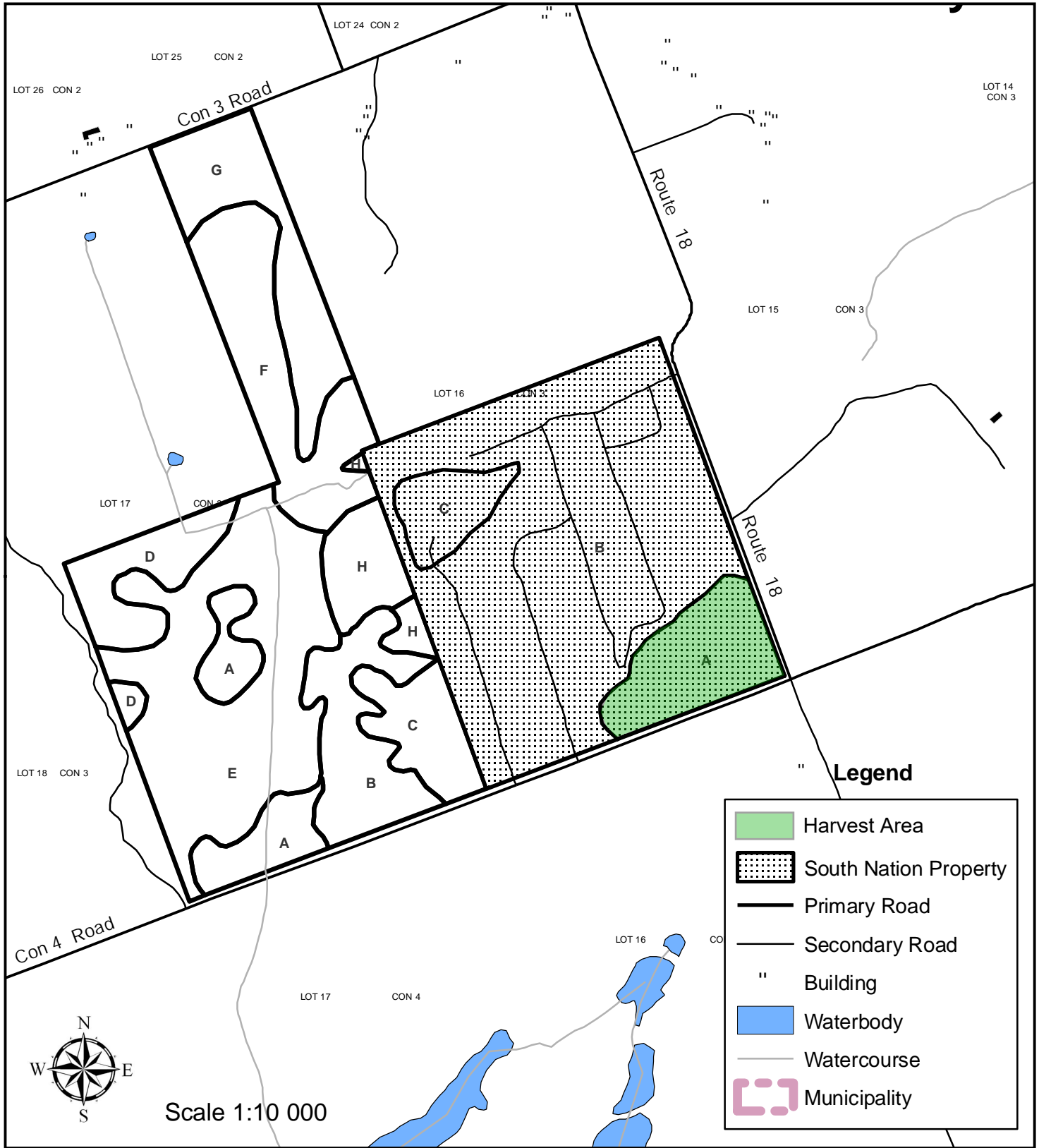
**SOUTH NATION
CONSERVATION**
DE LA NATION SUD

Forest Compartment 61-A
Lot. Pt. W1/2 E1/2-3, Con IX
Edwardsburgh Twp.
Roll No. 070170104506301
Grenville County



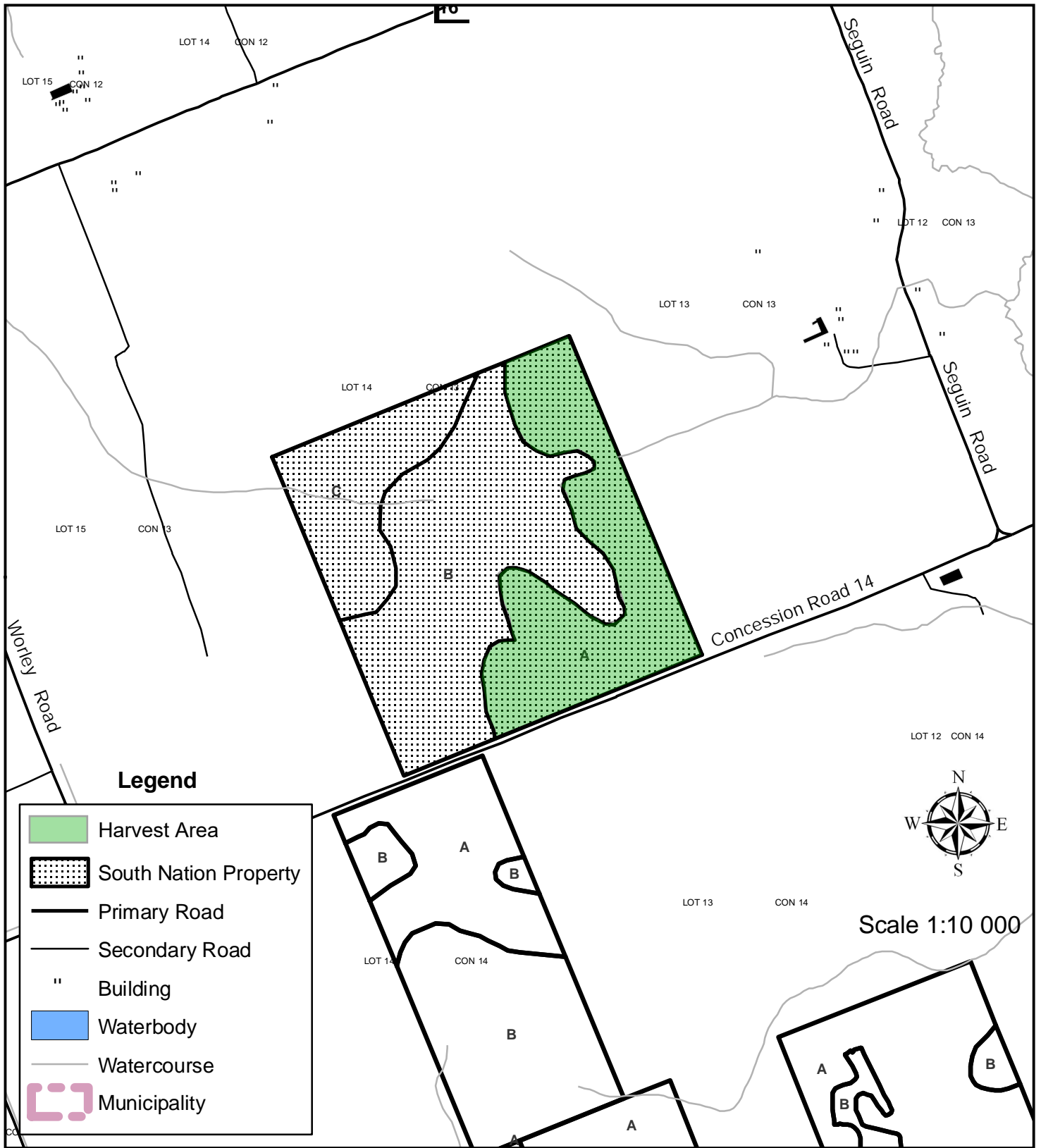
SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 62
 Lot. W1/2-20, Con IV
 Edwardsburg Twp.
 Roll No. 070170103019701
 Grenville County



SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 69
 Lot. S1/2-16, Con III
 North Plantagenet Twp.
 Roll No. 023102000305700
 Prescott County








SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 75

Lot. SE1/4-14; SW1/4-14, Con XIII
 South Plantagenet Twp.
 Roll No. 021202601310200
 Prescott County



Legend

-  Harvest Area
-  South Nation Property
-  Primary Road
-  Secondary Road
-  Building
-  Waterbody
-  Watercourse
-  Municipality



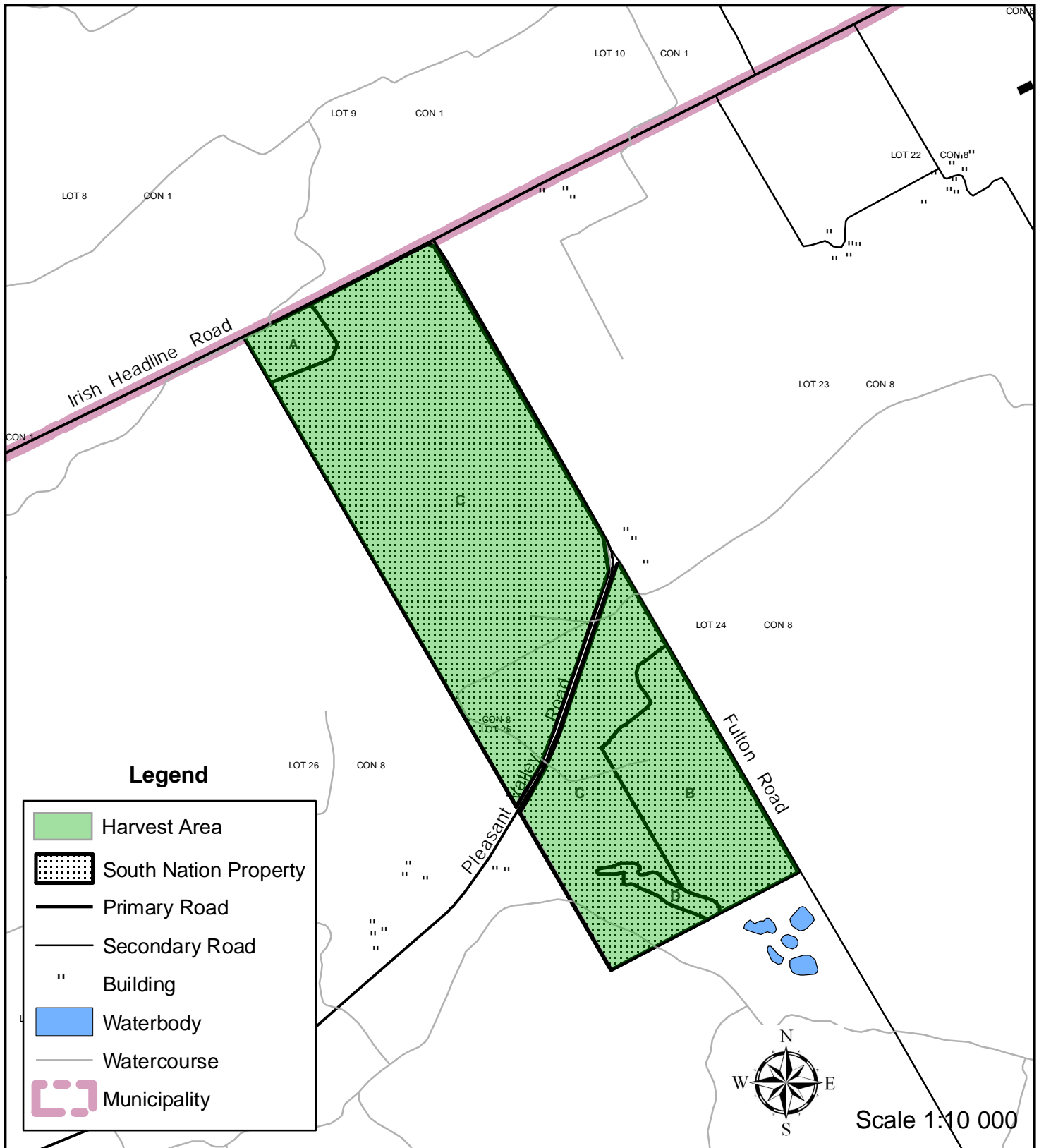
**SOUTH NATION
CONSERVATION**
DE LA NATION SUD

Forest Compartment 80/81/87
 Lot. W1/2 – 16; E1/2E1/2-17;
 S1/2E1/2, Con XV
 South Plantagenet Twp.
 Roll No. 021202601505000
 Prescott County



SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 85/86
 Lot. 15, Con XV
 South Plantagenet Twp.
 Roll No. 021202601504800
 Prescott County



SOUTH NATION
CONSERVATION
 DE LA NATION SUD

Forest Compartment 94
 Lot. Pt 25, Con VIII
 Matilda Twp.
 Roll No. 050600600899200
 Dundas County