



**ORIGINAL: 01 DECEMBER 2023**

**STAGE 1-2 ARCHAEOLOGICAL ASSESSMENT**

*9354 Wellington Road 22, Part of Lot 23, Concession 7 (Geographic Township of Erin)  
Town of Hillsburgh, County of Wellington (AMICK File #2021-303/MCM File #P058-2156-  
2022)*

**SUBMITTED TO:**

**Ontario Ministry of Citizenship and Multiculturalism (MCM)**

Citizenship, Inclusion and Heritage Division, Heritage Branch

401 Bay Street, Suite 1700

Toronto, ON M7A 0A7

Tel: 416-212-8886

[Archaeology@Ontario.ca](mailto:Archaeology@Ontario.ca)

**SUBMITTED BY:**

**AMICK Consultants Limited**

Southwestern District Office

237 Sanders Street East

Exeter, ON N0M 1S1

Phone: (519) 432-4435

Email: mcornies@amick.ca

[www.amick.ca](http://www.amick.ca)

**LICENSEE:**

Marilyn E. Cornies BA CAHP (P038)

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## **PROJECT PERSONNEL**

### **AMICK CONSULTANTS LIMITED PARTNERS**

Michael Henry (MCM Professional Archaeologist Licence #P058)  
Marilyn Cornies (MCM Professional Archaeologist Licence #P038)

### **AMICK CONSULTANTS LIMITED BUSINESS MANAGER**

Melissa Maclean BBA email [mmaclean@amick.ca](mailto:mmaclean@amick.ca)

### **PROJECT COORDINATOR**

Marilyn Cornies (MCM Professional Archaeologist Licence #P038)

### **PROJECT LICENSEE ARCHAEOLOGIST**

Michael Henry (MCM Professional Archaeologist Licence #P058)

### **PROJECT FIELD DIRECTORS**

Marilyn Cornies (MCM Professional Archaeologist Licence #P038)

### **PROJECT FIELD ASSISTANTS**

Michael Henry (MCM Professional Archaeologist Licence #P058)

### **PROJECT REPORT PREPARATION & GRAPHICS**

Alysia Gillham

### **PROJECT PHOTOGRAPHY**

Michael Henry (MCM Professional Archaeologist Licence #P058)

## **EXECUTIVE SUMMARY**

This report describes the results of the 2022 Stage 1-2 Archaeological Property Assessment of 9354 Wellington Road 22, Part of Lot 23, Concession 7 (Geographic Township of Erin) Town of Hillsburgh, County of Wellington, conducted by AMICK Consultants Limited. This assessment was undertaken as a requirement under the Planning Act (RSO 1990)/ and was conducted under Professional Archaeologist License # P038 issued to Marilyn Cornies by the Ministry of Citizenship and Multiculturalism (MCM) for the Province of Ontario. All work was conducted in conformity with Ontario Ministry of Tourism and Culture (MTC) Standards and Guidelines for Consultant Archaeologists (MTC 2011) and the Ontario Heritage Act (RSO 1990a).

The entirety of the study area is approximately 13.37 hectares (ha) in area and includes within it entirely ploughable lands. The study area is bounded on the north and east by woodlot, on the west by farmland and on the south by Wellington Road 22. AMICK Consultants Limited was engaged by the proponent to undertake a Stage 1-2 Archaeological Property Assessment of lands potentially affected by the proposed undertaking and was granted permission to carry out archaeological fieldwork. Following the criteria outlined by MCM (2011) for determining archaeological potential, portions of the study area were determined as having archaeological potential for Pre-contact and Post-contact

archaeological resources. Consequently, this report is being prepared in advance of the planning process for this property.

The entirety of the study area was subject to property inspection and photographic documentation concurrently with the Stage 2 Property Assessment which consisted of high intensity pedestrian survey at an interval of 5 metres between individual transects on 8 June 2022. All records, documentation, field notes, photographs, and artifacts (as applicable) related to the conduct and findings of these investigations are held at the Lakelands District corporate offices of AMICK Consultants Limited until such time that they can be transferred to an agency or institution approved by the MCM on behalf of the government and citizens of Ontario.

As a result of the Stage 2 Property Assessment of the study area, no archaeological resources were encountered. Consequently, the following recommendations are made:

1. *No further archaeological assessment of the study area is warranted.*
2. *The Provincial interest in archaeological resources with respect to the proposed undertaking has been addressed.*
3. *The proposed undertaking is clear of any archaeological concern.*

## **1.0 PROJECT CONTEXT**

### **1.1 DEVELOPMENT CONTEXT**

This report describes the results of the 2022 Stage 1-2 Archaeological Property Assessment of 9354 Wellington Road 22, Part of Lot 23, Concession 7 (Geographic Township of Erin) Town of Hillsburgh, County of Wellington, conducted by AMICK Consultants Limited. This assessment was undertaken as a requirement under the Planning Act (RSO 1990)/ and was conducted under Professional Archaeologist License # P038 issued to Marilyn Cornies by the Ministry of Citizenship and Multiculturalism (MCM) for the Province of Ontario. All work was conducted in conformity with Ontario Ministry of Tourism and Culture (MTC) Standards and Guidelines for Consultant Archaeologists (MTC 2011) and the Ontario Heritage Act (RSO 1990a).

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The entirety of the study area was subject to property inspection and photographic documentation concurrently with the Stage 2 Property Assessment which consisted of high intensity pedestrian survey at an interval of 5 metres between individual transects on 8 June 2022. All records, documentation, field notes, photographs, and artifacts (as applicable) related to the conduct and findings of these investigations are held at the Lakelands District corporate offices of AMICK Consultants Limited until such time that they can be transferred to an agency or institution approved by the MCM on behalf of the government and citizens of Ontario.

The proposed development of the study area includes residential and community improvement development, including; 142 single detached houses, 24 street townhouse units, 48 multiple residential houses, area for one future residential development, a park, open space, storm water management, a pumping station, sewer easement, and five streets. A preliminary plan of the proposed development has been submitted together with this report to MCM for review and reproduced within this report as Map 4.

## 1.2 HISTORICAL CONTEXT

### 1.2.1 PRE-CONTACT LAND-USE OUTLINE

Table 1 illustrates the chronological development of cultures within southern Ontario prior to the arrival of European cultures to the area at the beginning of the 17<sup>th</sup> century. This general cultural outline is based on archaeological data and represents a synthesis and summary of research over a long period of time. It is necessarily generalizing and is not necessarily representative of the point of view of all researchers or stakeholders. It is offered here as a rough guideline and as a very broad outline to illustrate the relationships of broad cultural groups and time periods.

**TABLE 1 PRE-CONTACT CULTURAL CHRONOLOGY FOR SOUTHERN ONTARIO**

Years ago	Period	Southern Ontario
250	Terminal Woodland	Ontario and St. Lawrence Iroquois Cultures
1000 2000	Initial Woodland	Princess Point, Saugeen, Point Peninsula, and Meadowood Cultures
3000 4000 5000 6000	Archaic	Laurentian Culture
7000 8000 9000 10000 11000	Palaeo-Indian	Plano and Clovis Cultures
		(Wright 1972)

What follows is an outline of Aboriginal occupation in the area during the Pre-Contact Era from the earliest known period, about 9000 B.C. up to approximately 1650 AD.

**1.2.1.1 PALEO-INDIAN PERIOD (APPROXIMATELY 9000-7500 B.C.)**

North of Lake Ontario, evidence suggests that early occupation began around 9000 B.C. People probably began to move into this area as the glaciers retreated and glacial lake levels began to recede. The early occupation of the area probably occurred in conjunction with environmental conditions that would be comparable to modern Sub-Arctic conditions. Due to the great antiquity of these sites, and the relatively small populations likely involved, evidence of these early inhabitants is sparse and generally limited to tools produced from stone or to by-products of the manufacture of these implements.

**1.2.1.2 ARCHAIC PERIOD (APPROXIMATELY 8000-1000 B.C.)**

By about 8000 B.C. the gradual transition from a post glacial tundra-like environment to an essentially modern environment was largely complete. Prior to European clearance of the landscape for timber and cultivation, the area was characterized by forest. The Archaic Period is the longest and the most apparently stable of the cultural periods identified through archaeology. The Archaic Period is divided into the Early, Middle and Late Sub-Periods, each represented by specific styles in projectile point manufacture. Many more sites of this period are found throughout Ontario, than of the Palaeo-Indian Period. This is probably a reflection of two factors: the longer period of time reflected in these sites, and a greater population density. The greater population was likely the result of a more diversified subsistence strategy carried out in an environment offering a greater variety of abundant resources (Smith 2002:58-59).

Current interpretations suggest that the Archaic Period populations followed a seasonal cycle of resource exploitation. Although similar in concept to the practices speculated for the big game hunters of the Palaeo-Indian Period, the Archaic populations utilized a much broader range of resources, particularly with respect to plants. It is suggested that in the spring and early summer, bands would gather at the mouths of rivers and at rapids to take advantage of fish spawning runs. Later in the summer and into the fall season, smaller groups would move to areas of wetlands to harvest nuts and wild rice. During the winter, they would break into yet smaller groups probably based on the nuclear family and perhaps some additional relatives to move into the interior for hunting. The result of such practices would be to create a distribution of sites across much of the landscape (Smith 2002: 59-60).

The material culture of this period is much more extensive than that of the Palaeo-Indians. Stylistic changes between Sub-Periods and cultural groups are apparent, although the overall quality in production of chipped lithic tools seems to decline. This period sees the introduction of ground stone technology in the form of celts (axes and adzes), manos and metates for grinding nuts and fibres, and decorative items like gorgets, pendants, birdstones, and bannerstones. Bone tools are also evident from this time period. Their presence may be a result of better preservation from these more recent sites rather than a lack of such items in earlier occupations. In addition, copper and exotic chert types appear during the period and are indicative of extensive trading (Smith 2002: 58-59).

**1.2.1.3 WOODLAND PERIOD (APPROXIMATELY 1000 B.C.-1650 A.D.)**

The primary difference in archaeological assemblages that differentiates the beginning of the Woodland Period from the Archaic Period is the introduction of ceramics to Ontario populations. This division is probably not a reflection of any substantive cultural changes, as the earliest sites of this period seem to be in all other respects a continuation of the Archaic mode of life with ceramics added as a novel technology. The seasonally based system of resource exploitation and associated population mobility persists for at least 1500 years into the Woodland Period (Smith 2002: 61-62).

The Early Woodland Sub-Period dates from about 1000-400 B.C. Many of the artifacts from this time are similar to the late Archaic and suggest a direct cultural continuity between these two temporal divisions. The introduction of pottery represents an entirely new technology that was probably acquired through contact with more southerly populations from which it likely originates (Smith 2002:62).

The Middle Woodland Sub-Period dates from about 400 B.C.-800 A.D. Within the region including the study area, a complex emerged at this time termed "Point Peninsula." Point Peninsula pottery reflects a greater sophistication in pottery manufacture compared with the earlier industry. The paste and temper of the new pottery is finer and new decorative techniques such as dentate and pseudo-scallop stamping appear. There is a noted Hopewellian influence in southern Ontario populations at this time. Hopewell influences from south of the Great Lakes include a widespread trade in exotic materials and the presence of distinct Hopewell style artifacts such as platform pipes, copper or silver panpipe covers and shark's teeth. The populations of the Middle Woodland participated in a trade network that extended well beyond the Great Lakes Region.

The Late Woodland Sub-Period dates from about 500-1650 A.D. The Late Woodland includes four separate phases: Princess Point, Early Ontario Iroquoian, Middle Ontario Iroquoian and Late Ontario Iroquoian.

The Princess Point phase dates to approximately 500-1000 A.D. Pottery of this phase is distinguished from earlier technology in that it is produced by the paddle method instead of coil and the decoration is characterized by the cord wrapped stick technique. Ceramic smoking pipes appear at this time in noticeable quantities. Princess Point sites cluster along major stream valleys and wetland areas. Maize cultivation is introduced by these people to Ontario. These people were not fully committed to horticulture and seemed to be experimenting with maize production. They generally adhere to the seasonal pattern of occupation practiced by earlier occupations, perhaps staying at certain locales repeatedly and for a larger portion of each year (Smith 2002: 65-66).

The Early Ontario Iroquoian stage dates to approximately 950-1050 A.D. This stage marks the beginning of a cultural development that led to the historically documented Ontario Iroquoian groups that were first contacted by Europeans during the early 1600s (Petun, Neutral, and Huron). At this stage formal semi-sedentary villages emerge. The Early stage of this cultural development is divided into two cultural groups in southern Ontario. The areas

occupied by each being roughly divided by the Niagara Escarpment. To the west were located the Glen Meyer populations, and to the east were situated the Pickering people (Smith 2002: 67).

The Middle Ontario Iroquoian stage dates to approximately 1300-1400 A.D. This stage is divided into two sub-stages. The first is the Uren sub-stage lasting from approximately 1300-1350 A.D. The second of the two sub-stages is known as the Middleport sub-stage lasting from roughly 1350-1400 A.D. Villages tend to be larger throughout this stage than formerly (Smith 2002: 67).

The Late Ontario Iroquoian stage dates to approximately 1400-1650 A.D. During this time the cultural divisions identified by early European explorers are under development and the geographic distribution of these groups within southern Ontario begins to be defined.

### *1.2.2 POST-CONTACT LAND USE OUTLINE*

In 1837 by Act of Parliament the new District of Wellington was formed and a court house and jail in the town of Guelph were authorized. The District was named after England's Duke of Wellington and initially included the counties of Wellington, Waterloo, Grey and parts of Dufferin (Wikipedia 2017).

By January 1854, Wellington County became an individual entity. At the time, it included the Townships and Towns of Amaranth, Arthur, Eramosa, Erin, Guelph, Guelph (Town), Garafraxa, Maryborough, Nichol, Peel, Pilkington, and Puslinch. Other municipalities were added between 1857 and 1881. Guelph separated in 1879 and was incorporated as a City; it lost representation on the County Council. Orangeville and Garafraxa East were annexed by Dufferin County (Wikipedia 2017).

Erin Township was surveyed between 1819 and 1820, and is said to have been so named by the surveyors, because it was surveyed immediately after the Townships of Albion and Caledon. Albion suggested England, Caledon suggested Scotland, so it was thought that the third should suggest Ireland, so they called it Erin, the poetic name for Ireland. In spite of the Irish name, the Township of Erin was settled by many Scottish settlers, and Gaelic became the universal language. In court cases, someone who could speak both Gaelic and English would be needed as an interpreter. McLaughlin McLean, being pretty free with the tongue, often acted in this capacity, giving general satisfaction. Nathaniel Roszell is often considered to be the first settler in the township, settling on Lot 1, Concession 7 in November 1820. More settlers would follow and soon a grist mill was constructed in 1824, with the first township council meetings occurring the same year (Town of Erin 2019).

Map 2 is a facsimile segment from Leslie & Wheelock's Map of Wellington County (Leslie 1861). Map 2 illustrates the location of the study area and environs as of 1861. The study area is shown to belong to Howe & Brothers. This demonstrates that the original property of which the study area is a part was settled by the time that the atlas data was compiled. Accordingly, it has been determined that there is potential for archaeological deposits related

to early Post-Contact settlement within the study area. In addition, this map illustrates an unnamed stream channel situated within the study area and a settlement road is depicted as adjacent to the study area to the south. This road is the current Wellington Road 22 and the stream channel is a tributary stream of the Credit River.

Map 3 is a facsimile segment of the Township of Erin map reproduced from The Illustrated Historical Atlas of the County of Wellington (Walker & Miles 1877). Map 3 illustrates the location of the study area and environs as of 1877. The study area is shown to belong to William Howe. This demonstrates that the original property of which the study area is a part was settled by the time that the atlas data was compiled. Accordingly, it has been determined that there is potential for archaeological deposits related to early Post-Contact settlement within the study area. In addition, this map illustrates an unnamed stream channel situated within the study area and a settlement road is depicted as adjacent to the study area to the south. This road is the current Wellington Road 22 and the stream channel is a tributary stream of the Credit River.

A plan of the study area is included within this report as Map 4. Current conditions encountered during the Stage 1-2 Property Assessment are illustrated in Maps 5 & 6.

### ***1.2.3 SUMMARY OF HISTORICAL CONTEXT***

The brief overview of readily available documentary evidence indicates that the study area is situated within an area that was close to historic transportation routes and in an area well populated during the nineteenth century and therefore has potential for sites relating to early Post-contact settlement in the region. However, it also appears that while the area was moving toward urban development by the fourth quarter of the 19<sup>th</sup> century, it was still predominantly rural in character and the likelihood of locating significant Post-contact archaeological deposits of cultural heritage value or interest (CHVI) on a very small parcel of the original township lot is not likely. Background research indicates the property has potential for significant archaeological resources of Native origins based on proximity to a natural source of potable water in the past.

## **1.3 ARCHAEOLOGICAL CONTEXT**

The study area is located near Hillsburg and is bounded on the north and east by woodlot, on the west by farmland and on the south by Wellington Road 22.

The present use of the study area is as actively farmed agricultural land. The study area is entirely ploughable lands. The study area contains no buildings or structural footprints, nor any previous disturbances. The study area does not contain any areas of steep slope

### ***1.3.1 PHYSIOGRAPHIC REGION***

The study area is situated within the Hillsburgh Sandhills physiographic region. Extending from Orangeville to Hillsburgh and Belwood the Hillsburgh Sandhills forms a natural boundary on the southeastern flank of the Dundalk till plain. They cover approximately 64

square miles and it is all over 1,400 feet a.s.l. and the highest ridges reach 1,600 feet, which are only 150 feet less than the highest part of the Dundalk plain 35 miles to the north. The outstanding characteristics are the rough topography, sandy materials, and the flat-bottomed swampy valley running through the moraine from Orangeville to Hillsburgh (Chapman and Putnam 1984: 135-136).

### ***1.3.2 SURFACE WATER***

The study area contains a section of the Credit River (Erin Branch), which is a source of potable water and a navigable waterway.

### ***1.3.4 REGISTERED ARCHAEOLOGICAL SITES***

The Archaeological Sites Database administered by the MCM indicates that there are no (0) previously documented sites within 1 kilometre of the study area. However, it must be noted that this assumes the accuracy of information compiled from numerous researchers using different methodologies over many years. AMICK Consultants Limited assumes no responsibility for the accuracy of site descriptions, interpretations such as cultural affiliation, or location information derived from the Archaeological Sites Database administered by MCM. In addition, it must also be noted that a lack of formerly documented sites does not indicate that there are no sites present as the documentation of any archaeological site is contingent upon prior research having been conducted within the study area.

### ***1.3.5 PREVIOUS ARCHAEOLOGICAL ASSESSMENTS***

On the basis of information supplied by MCM, no archaeological assessments have been conducted within 50 metres of the study area. AMICK Consultants Limited assumes no responsibility for the accuracy of previous assessments, interpretations such as cultural affiliation, or location information derived from the Archaeological Sites Database administered by MCM. In addition, it must also be noted that the lack of formerly documented previous assessments does not indicate that no assessments have been conducted.

#### ***1.3.5.1 PREVIOUS REGIONAL ARCHAEOLOGICAL POTENTIAL MODELLING***

The study area is situated in area for which there is no archaeological master plan.

### ***1.3.6 HISTORIC PLAQUES***

There are no relevant plaques associated with the study area, which would suggest an activity or occupation within, or near, the study area that may indicate potential for associated archaeological resources of significant CHVI.

### ***1.3.7 SUMMARY OF ARCHAEOLOGICAL CONTEXT***

The present use of the study area is as actively farmed agricultural land. The study area is entirely ploughable lands. The study area contains no buildings or structural footprints, nor any previous disturbances. The study area does not contain any areas of steep slope

No previously registered archaeological sites have been documented within 1km of the study area.

The study area is situated in area for which there is no archaeological master plan. There are no relevant plaques associated with the study area.

The study area has potential for archaeological resources of Native origins based on proximity to a source of potable water that was also used as a means of waterborne trade and communication. Background research also suggests potential for archaeological resources of Post-contact origins based on proximity to a historic roadway, and proximity to areas of documented historic settlement.

## **2.0 FIELD WORK METHODS AND WEATHER CONDITIONS**

### **2.1 INTRODUCTION**

A property inspection was carried out in compliance with Standards and Guidelines for Consultant Archaeologists (MTC 2011) to document the existing conditions of the study area to facilitate the Stage 2 Property Assessment. All areas of the study area were visually inspected and select features were photographed as a representative sample of each area defined within Maps 5 and 6. Observations made of conditions within the study area at the time of the inspection were used to inform the requirement for Stage 2 Property Assessment for portions of the study area as well as to aid in the determination of appropriate Stage 2 Property Assessment strategies. The locations from which photographs were taken and the directions toward which the camera was aimed for each photograph are illustrated in Maps 4 & 5 of this report

The Stage 2 Assessment of the study area was carried out on 8 June 2022 and consisted of by high intensity pedestrian survey at an interval of 5 metres between individual transects which was conducted in compliance with the Standards and Guidelines for Consultant Archaeologists, section 2.1.1: Pedestrian Survey (MTC 2011). Weather conditions were appropriate for the necessary fieldwork required to complete the Stage 2 Property Assessment and to create the documentation appropriate to this study.

### **2.2 PEDESTRIAN SURVEY**

Approximately 13.37 ha of the study area was subjected to pedestrian survey at 5m transect intervals. All actively or recently cultivated agricultural land within the study area was recently ploughed deep enough to provide total topsoil exposure but not deeper than previous ploughing and was weathered by a heavy rainfall. In addition, approximately 90% of the ploughed field surface was exposed and visible per Section 2.1.1, Standards 1-6 (MTC 2011). All work was photo-documented.

Through the course of the pedestrian survey, no archaeological resources were encountered.

### **3.0 RECORD OF FINDS**

#### **3.1 INTRODUCTION**

As a result of the Stage 1-2 Assessment of the study area, no archaeological resources of any description were encountered.

The documentation produced during the field investigation conducted in support of this report includes: one sketch map, one page of photo log, one page of field notes, and 26 digital photographs.

### **4.0 ANALYSIS AND CONCLUSIONS**

#### **4.1 STAGE 1 ANALYSIS AND CONCLUSIONS**

##### **4.1.1 CHARACTERISTICS INDICATING ARCHAEOLOGICAL POTENTIAL**

Section 1.3.1 of the Standards and Guidelines for Consultant Archaeologists specifies the property characteristics that indicate archaeological potential (MTC 2011). Factors that indicate archaeological potential are features of the local landscape and environment that may have attracted people to either occupy the land or to conduct activities within the study area. One or more of these characteristics found to apply to a study area would necessitate a Stage 2 Property Assessment to determine if archaeological resources are present. These characteristics include:

- 1) Within 300m of Previously Identified Archaeological Sites
- 2) Within 300m of Primary Water Sources (e.g., lakes, rivers, streams, and creeks)
- 3) Within 300m of Secondary Water Sources (e.g., intermittent streams and creeks, springs, marshes, and swamps)
- 4) Within 300 m of Features Indicating Past Water Sources (e.g., glacial lake shorelines indicated by the presence of raised sand or gravel beach ridges, relic river or stream channels indicated by clear dip or swale in the topography, shorelines of drained lakes or marshes, and cobble beaches)
- 5) Within 300m of an Accessible or Inaccessible Shoreline (e.g., high bluffs, swamp, or marsh fields by the edge of a lake, sandbars stretching into marsh)
- 6) Elevated Topography (e.g., eskers, drumlins, large knolls, and plateaux)

- 7) Pockets of Well-drained Sandy Soil, especially near areas of heavy soil or rocky ground.
- 8) Distinctive Land Formations that might have been special or spiritual places, such as waterfalls, rock outcrops, caverns, mounds, and promontories and their bases. There may be physical indicators of their use, such as burials, structures, offerings, rock paintings or carvings.
- 9) Resource Areas, including:
  - food or medicinal plants (e.g., migratory routes, spawning areas, and prairie)
  - scarce raw materials (e.g., quartz, copper, ochre or outcrops of chert)
  - resources of importance to early Post-contact industry (e.g., logging, prospecting, and mining)
- 10) Within 300m of Areas of Early Post-contact Settlement, including:
  - military or pioneer settlement (e.g., pioneer homesteads, isolated cabins, and farmstead complexes)
  - early wharf or dock complexes, pioneer churches and early cemeteries
- 11) Within 100m of Early Historical Transportation Routes (e.g., trails, passes, roads, railways, portage routes)
- 12) Heritage Property – A property listed on a municipal register or designated under the Ontario Heritage Act or is a federal, provincial, or municipal historic landmark or site.
- 13) Documented Historical or Archaeological Sites – property that local histories or informants have identified with possible archaeological sites, historical events, activities, or occupations. These are properties which have not necessarily been formally recognized or for which there is additional evidence identifying possible archaeological resources associated with historic properties in addition to the rationale for formal recognition.

The study area contains a section of the Credit River (Erin Branch) which is a primary water source and a navigable waterway. The study area is situated within 100m of an early settlement road that appears on the historic atlas maps of 1861 and 1877. This historic road corresponds to the road presently known as Wellington Road 22 which is directly adjacent to the study area on its southern edge.

#### **4.1.2 CHARACTERISTICS INDICATING REMOVAL OF ARCHAEOLOGICAL POTENTIAL**

Section 1.3.2 of the Standards and Guidelines for Consultant Archaeologists specifies the property characteristics which indicate no archaeological potential or for which archaeological potential has been removed (MTC 2011). These characteristics include:

- 1) Quarrying

- 2) Major Landscaping Involving Grading Below Topsoil
- 3) Building Footprints
- 4) Sewage and Infrastructure Development

The study area does not contain any areas where archaeological potential has been removed.

#### **4.1.3 SUMMARY OF ARCHAEOLOGICAL POTENTIAL**

Table 2 below summarizes the evaluation criteria of the Ministry of Citizenship and Multiculturalism (MCM) together with the results of the Stage 1 Background Study for the proposed undertaking. Based on the criteria, the property is deemed to have archaeological potential on the basis of proximity to water, proximity to historic settlement structures, and the location of early historic settlement roads adjacent to the study area.

**TABLE 2 EVALUATION OF ARCHAEOLOGICAL POTENTIAL**

FEATURE OF ARCHAEOLOGICAL POTENTIAL	YES	NO	N/A	COMMENT
1 Known archaeological sites within 300m		<b>N</b>		If Yes, potential determined
<b>PHYSICAL FEATURES</b>				
2 Is there water on or near the property?	<b>Y</b>			If Yes, what kind of water?
2a Primary water source within 300 m. (lakeshore, river, large creek, etc.)	<b>Y</b>			If Yes, potential determined
2b Secondary water source within 300 m. (stream, spring, marsh, swamp, etc.)		<b>N</b>		If Yes, potential determined
2c Past water source within 300 m. (beach ridge, river bed, relic creek, etc.)		<b>N</b>		If Yes, potential determined
2d Accessible or Inaccessible shoreline within 300 m. (high bluffs, marsh, swamp, sand bar, etc.)		<b>N</b>		If Yes, potential determined
3 Elevated topography (knolls, drumlins, eskers, plateaus, etc.)		<b>N</b>		If Yes, and Yes for any of 4-9, potential determined
4 Pockets of sandy soil in a clay or rocky area		<b>N</b>		If Yes and Yes for any of 3, 5-9, potential determined
5 Distinctive land formations (mounds, caverns, waterfalls, peninsulas, etc.)		<b>N</b>		If Yes and Yes for any of 3-4, 6-9, potential determined
<b>HISTORIC/PREHISTORIC USE FEATURES</b>				
6 Associated with food or scarce resource harvest areas (traditional fishing locations, agricultural/berry extraction areas, etc.)		<b>N</b>		If Yes, and Yes for any of 3-5, 7-9, potential determined.
7 Early Post-contact settlement area within 300 m.	<b>Y</b>			If Yes, and Yes for any of 3-6, 8-9, potential determined
8 Historic Transportation route within 100 m. (historic road, trail, portage, rail corridors, etc.)	<b>Y</b>			If Yes, and Yes for any 3-7 or 9, potential determined
9 Contains property designated and/or listed under the Ontario Heritage Act (municipal heritage committee, municipal register, etc.)		<b>N</b>		If Yes and, Yes to any of 3-8, potential determined
<b>APPLICATION-SPECIFIC INFORMATION</b>				
10 Local knowledge (local heritage organizations, Pre-contact, etc.)		<b>N</b>		If Yes, potential determined
11 Recent disturbance not including agricultural cultivation (post-1960-confirmed extensive and intensive including industrial sites, aggregate areas, etc.)		<b>N</b>		If Yes, no potential or low potential in affected part (s) of the study area.

If **YES** to any of 1, 2a-c, or 10 Archaeological Potential is **confirmed**

If **YES** to 2 or more of 3-9, Archaeological Potential is **confirmed**

If **YES** to 11 or No to 1-10 Low Archaeological Potential is **confirmed** for at least a portion of the study area.

## 4.2 STAGE 2 ANALYSIS AND CONCLUSIONS

No archaeological sites or resources were found during the Stage 2 survey of the study area.

In accordance with the definitions contained within the Standards and Guidelines for Consultant Archaeologists (MTC 2011), it has been concluded that no archaeological sites or resources were found during the Stage 2 survey of the study area.

## 5.0 RECOMMENDATIONS

### 5.1 STAGE 1-2 RECOMMENDATIONS

As a result of the Stage 2 Property Assessment of the study area, no archaeological resources were encountered. Consequently, the following recommendations are made:

4. *No further archaeological assessment of the study area is warranted;*
5. *The Provincial interest in archaeological resources with respect to the proposed undertaking has been addressed;*
6. *The proposed undertaking is clear of any archaeological concern.*

## 6.0 ADVICE ON COMPLIANCE WITH LEGISLATION

While not part of the archaeological record, this report must include the following standard advisory statements for the benefit of the proponent and the approval authority in the land use planning and development process:

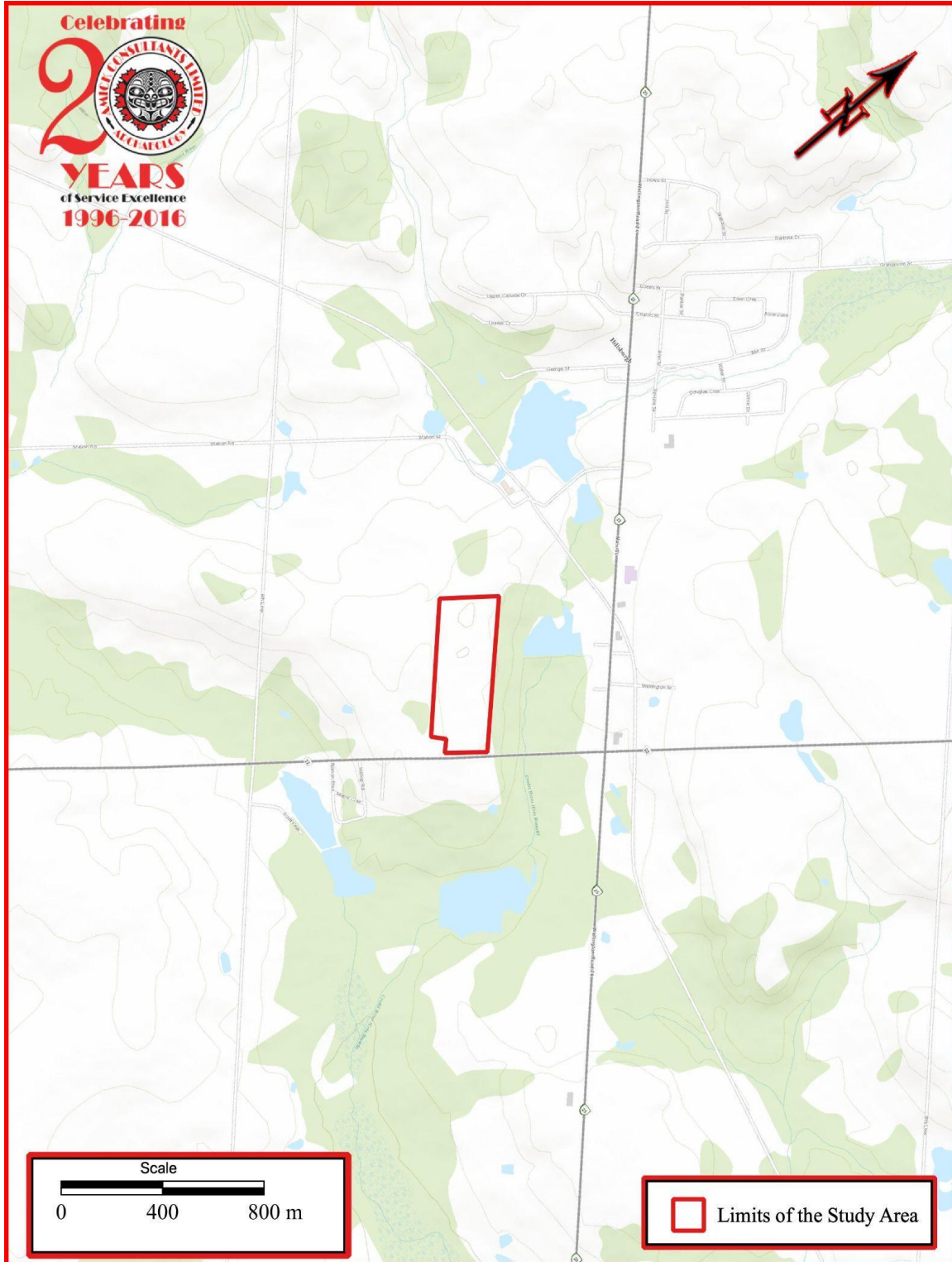
- a. *This report is submitted to the Minister of Tourism and Culture as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c. 0.18. The report is reviewed to ensure that it complies with the standards and guidelines issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Tourism and Culture, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.*
- b. *It is an offence under Sections 48 and 69 of the Ontario Heritage Act for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeological Reports referred to in Section 65.1 of the Ontario Heritage Act.*

- c. *Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the Ontario Heritage Act. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed archaeologist to carry out archaeological fieldwork, in compliance with sec. 48 (1) of the Ontario Heritage Act.*
  
- d. *The Cemeteries Act, R.S.O. 1990, c. C.4 and the Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.*
  
- e. *Archaeological sites recommended for further archaeological fieldwork or protection remain subject to Section 48 (1) of the Ontario Heritage Act and may not be altered, or have artifacts removed from them, except by a person holding an archaeological licence.*

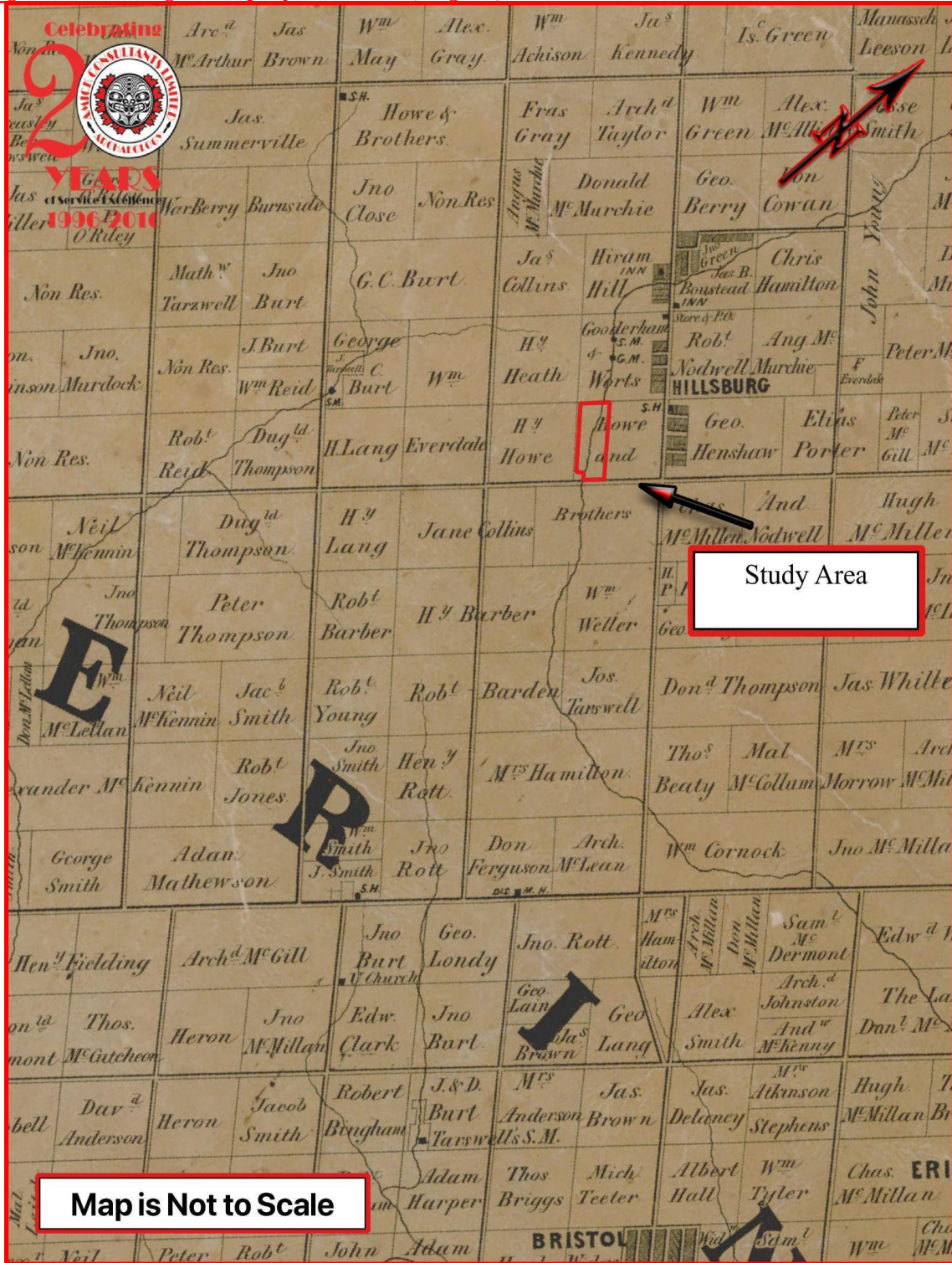
## WORKS CITED

- Chapman, L.J. & D.F. Putnam. (1984). *The Physiography of Southern Ontario (Third Edition)*. Ontario Geological Survey, Special Report #2. Ontario Ministry of Natural Resources, Toronto.
- Esri (2019). “Topographic” [basemap]. Scale Not Given. “World Topographic Map.” February 16, 2021. <http://www.arcgis.com/home/item.html?id=30e5fe3149c34df1ba922e6f5bbf808f> (February 16, 2021).
- Goel, Tarun (2013). Road Construction: History and Procedure. Bright Hub Engineering. Retrieved 24 May 2015 from URL: <http://www.brighthubengineering.com/structural-engineering/59665-road-construction-history-and-procedure/>
- Google Earth (Version 6.2.5200.0) [Software]. (2016). Available from <http://www.google.com/earth/index.html>.
- Ontario Heritage Act, RSO 1990a, Government of Ontario. (Queen’s Printer, Toronto).
- Ontario Heritage Amendment Act, SO 2005, Government of Ontario. (Queen’s Printer, Toronto).
- Ontario Ministry of Tourism and Culture (MTC). (2011). *Standards and Guidelines for Consultant Archaeologist*. (Programs and Services Branch: Culture Programs Unit, Toronto).
- Ontario Planning Act, RSO 1990b, Government of Ontario. (Queen’s Printer, Toronto).
- Provincial Policy Statement (2020). Government of Ontario. (Queen’s Printer, Toronto).
- Tremaine, George. (1859). *Tremaine’s Map of the County of Wellington* [map]. George Tremaine, Toronto. Retrieved June 14, 2022, from the Ontario Historical County Maps Project in association with University of Toronto Map and Data Library URL: <http://maps.library.utoronto.ca/hgis/countymaps/wellington/index.html>.
- Wright, J.V. (1972). *Ontario Prehistory: an Eleven-thousand-year Archaeological Outline*. Archaeological Survey of Canada. National Museum of Man, Ottawa.

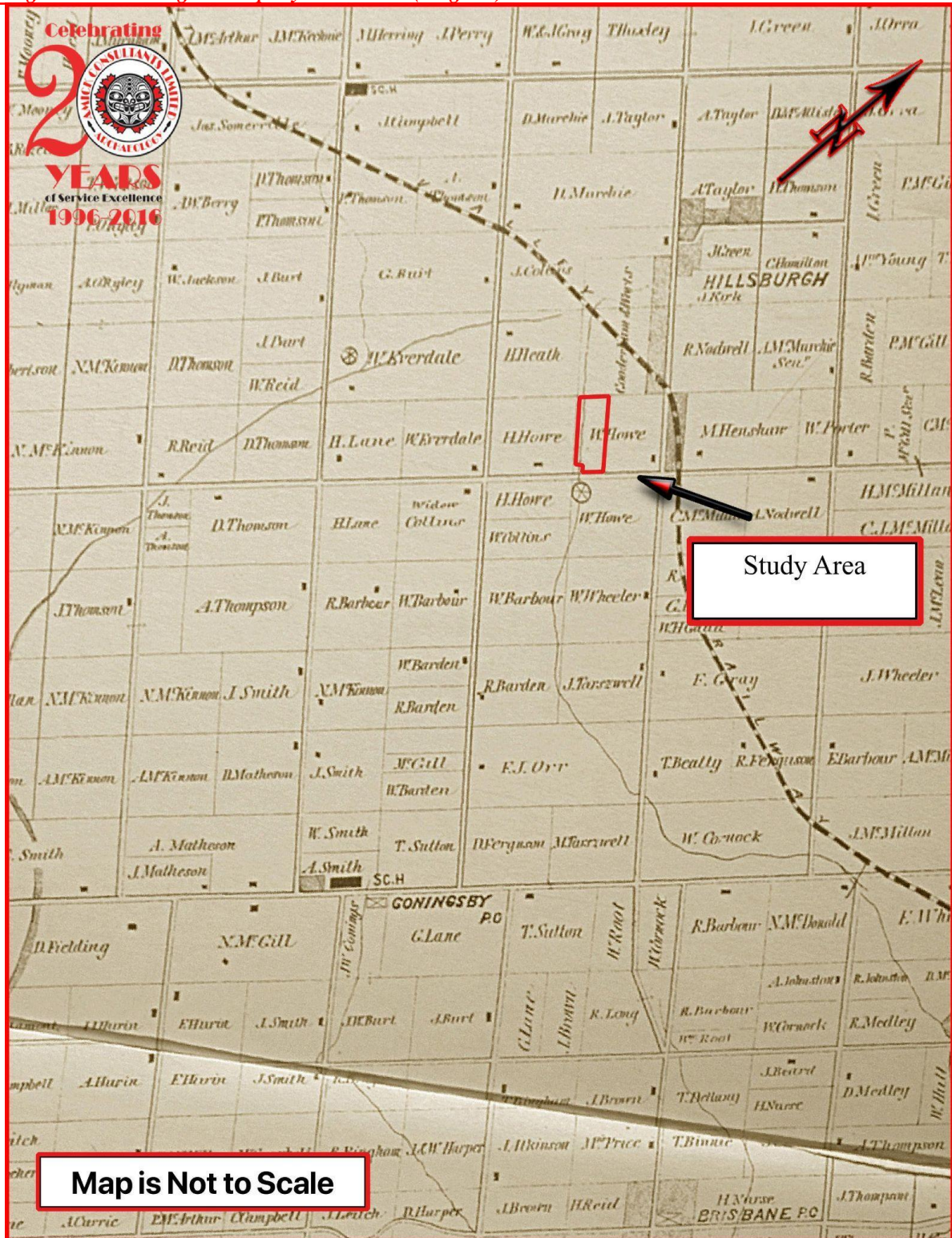
MAPS



MAP 1 LOCATION OF THE STUDY AREA (ESRI 2019)



MAP 2 FACSIMILE SEGMENT OF LESLIE & WHEELOCK'S MAP OF THE COUNTY OF WELLINGTON (LESLIE & WHEELOCK 1861)



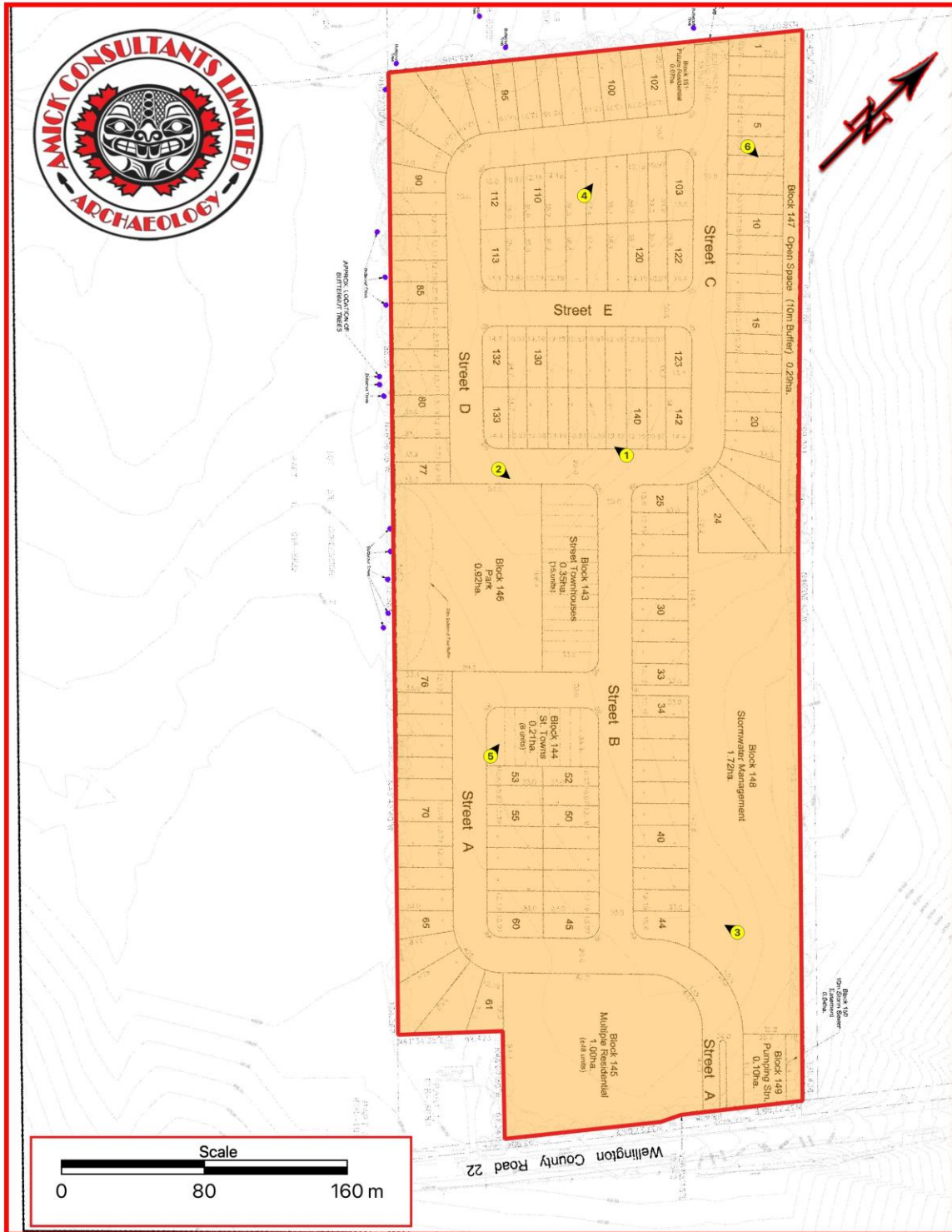
MAP 3 FACSIMILE SEGMENT OF THE HISTORIC ATLAS MAP OF THE TOWNSHIP OF ERIN  
(WALKER & MILES 1877)



MAP 4 DRAFT PLAN (GSP GROUP 2023)



MAP 5 AERIAL PHOTO OF THE STUDY AREA (GOOGLE EARTH 2016)



MAP 6 DETAILED PLAN OF THE STUDY AREA (GSP GROUP 2023)

**IMAGES**



**IMAGE 1** VIEW OF CREW WORKING AND PEDESTRIAN SURVEY CONDITIONS



**IMAGE 2** VIEW OF CREW WORKING AND PEDESTRIAN SURVEY CONDITIONS



**IMAGE 3** VIEW OF PEDESTRIAN SURVEY CONDITIONS



**IMAGE 4** VIEW OF PEDESTRIAN SURVEY CONDITIONS



**IMAGE 5** VIEW OF PEDESTRIAN SURVEY SOIL CONDITIONS



**IMAGE 6** VIEW OF PEDESTRIAN SURVEY CONDITIONS