

Stage 2 Archaeological Assessment Fischer-Hallman Road Improvements Part of Lots 151-160, German Company Tract; Lots 8-9, Beasley's New Survey; Hiestand's Tract; and Bechtel's Tract (Former Township of Waterloo, County of Waterloo) City of Kitchener, Regional Municipality of Waterloo

Supplementary Documentation: Indigenous Engagement

Prepared for:

Associated Engineering

508 Riverbend Drive, Suite 302
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Archaeological Licence: P1066 (Lytle)

PIF P1066-0263-2021

Archaeological Services Inc. File: 21EA-162

2 June 2022



1.0 Project Context

Indigenous community engagement was initiated by Archaeological Services Inc. (ASI) on behalf of the Regional Municipality of Waterloo prior to the start of the Stage 2 assessment for the Fischer-Hallman Road Improvements project in the City of Kitchener (ASI, 2022).

2.0 Record of Engagement

The Haudenosaunee Development Institute, Mississaugas of the Credit First Nation, and Six Nations of the Grand River Elected Council were contacted for community engagement on August 6, 2021. At this time, ASI provided a memo to each Nation which summarized previous assessment reports within the vicinity of the Study Area and outlined the testing methodologies proposed to confirm the presence or absence of previous disturbance within the Fischer-Hallman Road corridor (Appendix A). Feedback from each Nation was requested to ensure agreement between all parties. Communities were informed that ASI would be undertaking the assessment and would handle the logistical coordination of Stage 2 fieldwork scheduled to begin on December 7, 2021, and May 10, 2022. The contacted parties are listed below:

Haudenosaunee Development Institute:

- Wayne Hill: Tworowarchaeology@gmail.com
- Todd Williams: Williams.todde@gmail.com

Mississaugas of the Credit First Nation:

- Megan DeVries: Megan.devries@mncfn.ca
- Fawn Sault: Fawn.sault@mncfn.ca
- Marlene Morton: Marlene.morton@mncfn.ca
- Adrian Blake: Adrian.blake@mncfn.ca



- Mariah Sault: Field.coordinator@mncfn.ca
- Adam LaForme: Adam.laforme@mncfn.ca

Six Nations of the Grand River Elected Council:

- Tanya Hill-Montour: Tanyahill-montour@sixnation.ca
- Dawn LaForme: Dlaforme@sixnations.ca

Positive responses were received from the Haudenosaunee Development Institute, Mississaugas of the Credit First Nation, and Six Nations of the Grand River Elected Council, and no concerns were expressed regarding the proposed fieldwork methodology.

The Stage 2 property survey for the Fischer-Hallman Road Improvements project was conducted from December 7-10, 2021, under the field direction of Chris Langlois (P1177), from December 13-17, 2021, under the field direction of Jesse Hume (R1254), and on May 10, 2022, under the field direction of Hannah Curtis (R1296) in accordance with the *Ontario Heritage Act* and the *Standards and Guidelines for Consultant Archaeologists*, Section 2 (MTC, 2011).

During the execution of the Stage 2 survey, Field Liaison Representatives from Haudenosaunee Development Institute (HDI), Mississaugas of the Credit First Nation (MCFN), and Six Nations of the Grand River Elected Council (SNGREC) were on-site monitoring and providing input on the assessment. Specific dates of fieldwork and Field Liaison Representatives are listed below in Table 1.

Table 1: Indigenous Field Liaison Representatives on Site

Dates	Field Liaison Representatives
December 7, 2021	Sharann Martin (HDI), Chris Tobicoe (MCFN), Tim Nanticoke (SNGREC)



Dates	Field Liaison Representatives
December 8, 2021	Sharann Martin (HDI), Chris Tobicoe (MCFN), Tim Nanticoke (SNGREC)
December 9, 2021	Sharann Martin (HDI), Chris Tobicoe (MCFN), Tim Nanticoke (SNGREC)
December 10, 2021	Sharann Martin (HDI), Chris Tobicoe (MCFN), Tim Nanticoke (SNGREC)
December 13, 2021	Markus Doxtater (HDI), Tim Nanticoke (SNGREC)
December 14, 2021	Markus Doxtater (HDI), Tim Nanticoke (SNGREC)
December 15, 2021	Markus Doxtater (HDI), Tim Nanticoke (SNGREC)
December 16, 2021	Markus Doxtater (HDI), Tim Nanticoke (SNGREC)
December 17, 2021	Markus Doxtater (HDI), Tim Nanticoke (SNGREC)
May 10, 2022	Danton Miller (HDI)

During the execution of the Stage 2 survey, the following concerns were expressed:

December 7, 2021

Sharann Martin (HDI) requested that all construction fill layers be screened for the recovery of artifacts. This request was accommodated.

December 9, 2021

Sharann Martin (HDI) requested test pit intensification at 2.5 metre intervals around Secondary Deposit P2. Two intensification test pits were placed beside



Secondary Deposit P2, however no intact topsoil or artifacts from fill were encountered.

Sharann Martin (HDI) expressed concerns regarding the placement of Test Unit 1 at Site P1 (AiHc-557) (*Supplementary Documentation: Detailed Site Location Information* Figure 3). Test Unit 1 was placed and excavated 80 centimetres west of Positive Test Pit 1 due to soil conditions. After the test unit was excavated, concerns were expressed that it was not placed immediately atop the positive test pit. A second test unit (Test Unit 2) was later excavated atop positive Test Pit 1 when soil conditions had improved.

Sharann Martin (HDI), Chris Tobicoe (MCFN), and Tim Nanticoke (SNGREC) expressed concerns when unknown project staking was encountered within the agricultural field adjacent to the portion of the Fisher-Hallman Road right-of-way containing Site P1 (AiHc-557) and Site P3 (AiHc-558). A comprehensive review of the Ontario Archaeological Sites Database, Ontario's PastPortal, archaeological reports on file with the Region of Waterloo, and the latest Stage 1 report for the Fischer-Hallman Road Improvements Project (Wood Environment & Infrastructure Solutions, 2019a) demonstrated this section of agricultural lands had not been subject to Stage 2 assessment and exhibited archaeological potential. Additional research conducted when drafting the final Stage 2 report found that the lands contained by the staked portion of the agricultural field were subject to Stage 2 by Wood Environment & Infrastructure Solutions (2019b: P348-0061-2019).

December 16, 2021

Wayne Hill (HDI) contacted Sarah Jagelewski (ASI) after hours and expressed concerns raised by field liaison Markus Doxtater (HDI). After fieldwork had been completed for the day, Markus Doxtater was driving past the vicinity of Site P1 (AiHc-557) and Site P3 (AiHc-558) and noted construction crews working within the Fischer-Hallman Road right-of-way. A contractor had cleared the right-of-way area of all vegetation and was installing a new cable-style utility within the portion of right-of-way containing Sites P1 and P3 (ASI, 2022: Image 3).



December 17, 2021

Sarah Jagelewski (ASI) shared HDI's concerns and contacted the Region of Waterloo. The Region of Waterloo confirmed the contractors work was not part of the Fischer-Hallman Road Improvements project but rather servicing for a residential development. The Region of Waterloo then cancelled permits associated with the work, shut down the utility installation, and contacted Wayne Hill (HDI) to confirm that no construction work would be proceeding within that portion of the Fischer-Hallman Road right-of-way. While a portion of the area affected by the utility contractors was subject to test pit survey, the remainder of the right-of-way lands to the north of Sites P1 and P3 would require Stage 2 assessment in 2022 prior to any proposed construction impacts.

May 10, 2021

The remainder of the right-of-way lands to the north of Site P1 and P3 were subject to Stage 2 assessment. The gas main corridor adjacent to the roadbed and area of recently installed utilities (ASI 2022: Image 4) was determined to have been previously disturbed. The remaining scrubland was subject to judgmental test pit survey at 10 metre intervals to confirm previous disturbance. No intact topsoil (A-horizon) was encountered. Danton Miller (HDI) was present on site during the May 10, 2022, fieldwork and no further concerns were expressed.

The results of this assessment and a copy of the final draft report were shared with the Haudenosaunee Development Institute, Mississaugas of the Credit First Nation, and Six Nations of the Grand River Elected Council to keep all parties updated and informed (ASI, 2022).

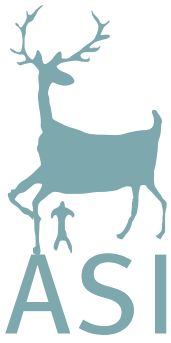


3.0 Bibliography and Sources

- ASI. (2022). Stage 2 Archaeological Assessment, Fischer-Hallman Road Improvements, Part of Lots 151-160, German Company Tract; Lots 8-9, Beasley's New Survey; Hiestand's Tract; and Bechtel's Tract (Former Township of Waterloo, County of Waterloo), City of Kitchener, Regional Municipality of Waterloo. P1066-0263-2021. Report on file with the Ontario Ministry of Heritage, Sport, Tourism and Culture Industries.
- MTC, (Ministry of Tourism and Culture). (2011). Standards and Guidelines for Consultant Archaeologists. Cultural Programs Branch, Ontario Ministry of Tourism and Culture.
- Wood Environment & Infrastructure Solutions. (2019a). Original Report: Stage 1 Archaeological Assessment: Fischer-Hallman Road Improvements, from Bleams Road to 140 m south of Plains Road, City of Kitchener, Regional Municipality of Waterloo, Ontario. Project #SWW1181149.3000. P348-0049-2019.
- Wood Environment & Infrastructure Solutions. (2019b). Revised Report: Stage 2 Archaeological Assessment: Proposed Road Widening of Fischer-Hallman Road between Plains Road and North of Huron Road, City of Kitchener, Regional Municipality of Waterloo, Ontario, Project #SCL191154. P348-0061-2019. Report on file with the Ontario Ministry of Heritage, Sport, Tourism and Culture Industries.

Appendix A: Stage 2 Methodology Memo





Providing Archaeological &
Cultural Heritage Services

528 Bathurst Street Toronto, ONTARIO M5S 2P9
T416-966-1069 F416-966-9723 asiheritage.ca

June 25, 2021

TO: Peter Lejcar, Associated Engineering

Cc:

FROM: Sarah Jagelewski, Lisa Merritt

RE: Archaeological Strategy for Additional Work as part of the Fischer Hallman Road EA

ASI File:

The following memo provides a summary of archaeological assessments completed to date within and adjacent to the Fisher-Hallman Road right-of-way (ROW) between Bleams Road and Plains Road (Study Area) in the City of Kitchener and provides recommendations for areas where outstanding assessment is required.

As directed by Associated Engineering and the Region of Waterloo, ASI has conducted a detailed review of the archaeological assessments completed to date and has revaluated the results and recommendations from those reports, which is presented below. Please note that because the salvage excavations of the AiHc-414 site is on-going by another consultant, ASI has not commented on nor provided any recommendations surrounding this site.

Project Background

ASI completed a Stage 1 Archaeological Assessment in 2016 as part of the Municipal Class Environmental Assessment (EA) for the Fischer-Hallman Road Improvements projects (ASI, 2016). The improvements involve the widening of Fischer-Hallman Road from two lanes to four lanes, between Bleams Road and Plains Road in the City of Kitchener. The Stage 1 study area included the existing Fischer-Hallman Road ROW from 50 m south of Bleams Road to 250 m south of Plains Road, including an eight metre buffer beyond the existing ROW property boundary. The report states that a large part of the study area was considered to be disturbed due to ROW construction and grading of adjacent lands, and the remainder of the study area is considered to possess archaeological potential requiring Stage 2 survey by means of either test pit or pedestrian survey.

The Class EA for the proposed road widening of Fischer-Hallman Road from Bleams Road to Plains Road was approved by Regional Council on March 2, 2016, and approved by the Minister of Environment and Climate Change on April 10, 2017 (Wood Environment & Infrastructure Solutions, 2019a). In 2019 Wood Environment & Infrastructure Solutions (Wood) completed a Stage 1 archaeological assessments to review and summarize the work completed within the Study Area to date, the results mapping from this assessment are included in Appendix A.

Known archaeological sites and other assessments completed within and adjacent to the ROW are summarized in table format below.

Engagement

The Ontario Ministry of Heritage, Sport, Tourism, and Culture Industries (MHSTCI) licenses archaeologists under the provisions of the Ontario Heritage Act. In carrying out their work, licensees have a statutory obligation to comply with the Standards and Guidelines for Consultant Archaeologists established by MHSTCI (MHSTCI, 2011a). These standards and guidelines include engaging with Indigenous communities when dealing with archaeological sites of Indigenous cultural affiliation .

Development proponents do not always bear the statutory obligation for engagement, the licensed archaeologist does. As with consultation, though, it is to the proponent's benefit to support the engagement process in the interest of developing and maintaining positive relations with interested Indigenous communities in the context of the broader and more complex relations that exist between the Crown, approval authorities, Indigenous communities, and the public. To facilitate the engagement process, the archaeological resource management industry works with Indigenous communities to develop best practices for engagement. Over the last decade, the approach that has gained the most widespread acceptance has been the training and inclusion of Indigenous practitioners, variously referred to as liaisons, monitors, or field liaison representatives (FLRs), to work alongside consultant archaeologists on the ground.

Trained liaisons are also increasingly deployed by Indigenous communities to participate in fieldwork undertaken by other professionals, such as environmental consultants, and requirements for such participation is being written into municipal official plans. With costs for these workers underwritten by development proponents, Indigenous communities gain both capacity funding, allowing them to participate in the engagement process, and first-hand knowledge of the archaeological fieldwork dealing with their cultural patrimony. Working with Indigenous liaisons, often from more than one Indigenous community with overlapping treaty lands or traditional territories, has become routine practice for archaeological heritage management firms such as ASI and for many of our clients.

ASI recommends that this memo be circulated to the following Indigenous communities for review and comment on the proposed strategy for future work within the Study Area:

- Haudenosaunee Confederacy Chiefs Council;
- Mississaugas of the Credit First Nation; and
- Six Nations of the Grand River

All future archaeological assessments completed within the Fisher-Hallman Road ROW between Bleams Road and Plains Road must follow the MHSTCI Engaging Aboriginal Communities in Archaeologist: A Draft Technical Bulletin for Consultant Archaeologists in Ontario. The communities outlined above should be contacted and included in all future assessments within the Study Area. Any Specific accommodation requests from representatives of the Indigenous communities will be negotiated and approved by the Region of Waterloo, including by not limited to participation of Indigenous community monitors in any required archaeological fieldwork and the review of any archaeological assessment reports.



Archaeological Context

The following provides a review of the archaeological sites located within 1 km, and a summary of previous archaeological fieldwork conducted within and in the vicinity of the Study Area.

Table 1: Previously Registered Archaeological Sites within 1 km of the Study Area

Borden #	Site Name	Temporal / Cultural Affiliation	Site Type	Researcher
AiHc-2	Moyer	Neutral Nation	Village	Wagner 1962
AiHc-23		Pre-Contact Indigenous	Campsite	Pihl 1982
AiHc-48	Glencairn 1	Pre-Contact Indigenous	Findspot	MPP 1986
AiHc-49	Glencairn 2	Pre-Contact Indigenous	Findspot	MPP 1986
AiHc-55	Williamsburg 1	Euro-Canadian	House	MPP 1986; RMW 1989
AiHc-56	Williamsburg 2	Euro-Canadian		MPP 1986; Janusas 1989
AiHc-57	Off Corridor	Pre-Contact Indigenous	Findspot	MPP 1986
AiHc-85	Huron Business Park 1	Pre-Contact Indigenous	Findspot	ASI 1989
AiHc-86	Huron Business Park 2	Pre-Contact Indigenous	Findspot	ASI 1989
AiHc-87	Huron Business Park 3	Pre-Contact Indigenous	Findspot	ASI 1989
AiHc-88	Huron Business Park 4	Pre-Contact Indigenous	Undetermined	ASI 1989
AiHc-92	Bleams Road – Corduroy road	Euro-Canadian	Road	Janusas 1989
AiHc-104		Pre-Contact Indigenous	Undetermined	MPA 1990
AiHc-105		Pre-Contact Indigenous	Undetermined	MPA-1990
AiHc-106		Pre-Contact Indigenous	Undetermined	MPA 1990
AiHc-107		Pre-Contact Indigenous	Undetermined	MPA 1990
AiHc-108		Pre-Contact Indigenous	Campsite	MPA 1990
AiHc-109		Pre-Contact Indigenous	Undetermined	MPA 1990
AiHc-110		Pre-Contact Indigenous	Findspot	MPA 1990
AiHc-111		Pre-Contact Indigenous	Findspot	MPA 1990
AiHc-112		Pre-Contact Indigenous	Findspot	MPA 1990
AiHc-113		Pre-Contact Indigenous	Undetermined	MPA 1990
AiHc-114		Pre-Contact Indigenous	Findspot	MPA 1990
AiHc-115		Late Woodland	Undetermined	MPA 1990
AiHc-116		Pre-Contact Indigenous	Undetermined	MPA 1990
AiHc-117		Pre-Contact Indigenous	Undetermined	MPA 1990
AiHc-118		Euro-Canadian	Homestead	MPA 1990
AiHc-119		Pre-Contact Indigenous	Findspot	MPA 1990
AiHc-120		Pre-Contact Indigenous	Findspot	MPA 1990
AiHc-121		Pre-Contact Indigenous	Findspot	MPA 1990
AiHc-122		Pre-Contact Indigenous	Findspot	MPA 1990
AiHc-163	Lujan	Pre-Contact Indigenous	Findspot	ASI 1990; 1991
AiHc-164	Keyoke	Pre-Contact Indigenous	Lithic scatter	ASI 1990
AiHc-255	Strasburg Creek	Late Woodland	Village	ARA 2001 & 2011



Borden #	Site Name	Temporal / Cultural Affiliation	Site Type	Researcher
AiHc-256	Fischer-Hallman	Pre-Contact Indigenous		ARA 2001
AiHc-257	Cornfield	Pre-Contact Indigenous		ARA 2001
AiHc-358	Borsh	Euro-Canadian	Homestead	ASI 2007
AiHc-359		Aboriginal (pre-16 th century)	Findspot	Austin and Pradzynski 2007
AiHc-360		Pre-Contact Indigenous	Findspot	ASI 2007 & 2013
AiHc-361		Late Archaic, Post-Contact	Lithic scatter	ASI 2007 & 2013
AiHc-362	Hewitt Farm Dump Site	Euro-Canadian	Dump	ASI 2007
AiHc-363	Becker Estates	Pre-Contact Indigenous	Camp	Stantec 2006
AiHc-364	Becker Estates	Pre-Contact Indigenous	Camp; lithic scatter	Stantec 2006
AiHc-368		Pre-Contact Indigenous	Scatter	ASI 2007
AiHc-369		Pre-Contact Indigenous	Findspot	ASI 2007
AiHc-370		Pre-Contact Indigenous	Scatter	ASI 2007
AiHc-389		Late Woodland	Campsite	ARA 2006
AiHc-413		Pre-Contact Indigenous		ARA 2009
AiHc-414	Location 1	Late Woodland, Euro-Canadian	Village	ARA 2009, Stantec 2015, LEC 2016
AiHc-415	Location 2	Pre-Contact Indigenous		ARA 2008, Stantec 2015, LEC 2016
AiHc-416	Location 4	Late Woodland	Village	ARA 2008, RVB 2015, Stantec 2015, LEC 2016
AiHc-417	Location 7	Archaic		ARA 2008, Stantec 2015
AiHc-418		Euro-Canadian	Midden	ARA 2008
AiHc-419		Pre-Contact Indigenous		ARA 2008
AiHc-420	Location 12	Middle Archaic	Campsite	ARA 2008, LEC 2016
AiHc-421		Middle Archaic	Campsite	RVB 2008, ARA 2008, TMHC 2013, LEC 2016, ARA 2008, TMHC 2013
AiHc-422		Pre-Contact Indigenous, Euro-Canadian		ARA 2008, TMHC 2013
AiHc-423		Late Archaic	Campsite	ARA 2008, TMHC 2013, LEC 2016
AiHc-424	Location 21	Late Woodland, Euro-Canadian	Village/hamlet	ARA 2008, Stantec 2015
AiHc-425	AiHc-425	Pre-Contact Indigenous, Euro-Canadian	Log cabin; midden	ARA 2008, Golder 2013



Borden #	Site Name	Temporal / Cultural Affiliation	Site Type	Researcher
AiHc-426	Location 25	Pre-Contact Indigenous	Campsite	ARA, 2008, Stantec 2015, LEC 2016
AiHc-427		Late Woodland & Euro-Canadian	Village/hamlet	ARA 2008, Stantec 2008, LEC 2016
AiHc-428	Location 28	Late Woodland	Village	ARA 2008 Stantec 2015
AiHc-429	Find Spot 29	Pre-Contact Indigenous	Camp/Campsite	ARA 2008 TMHC 2013 LEC 2016
AiHc-430		Euro-Canadian	Farmstead	ARA 2008
AiHc-454	Ferguson Site	Euro-Canadian	Homestead	ASI 1987 & 2016
AiHc-455	P2	Pre-Contact Indigenous		ASI 1987
AiHc-456	Location 2			RVB 2013, Sweeney 2013
AiHc-460		Late Archaic	Campsite	TMHC 2013
AiHc-471	Findspot 1			ARA 2014
AiHc-472	Findspot 2	Early Woodland		ARA 2014
AiHc-479		Pre-Contact Indigenous	Campsite	Golder 2015
AiHc-481	Location 1	Pre-Contact Indigenous	Campsite	Stantec 2016
AiHc-482		Euro-Canadian		Wood 2017
AiHd-93	Tarbox	Pre-Contact Indigenous	Findspot	ASI 1990; 1991
AiHd-94	Nutria	Pre-Contact Indigenous	Findspot	ASI 1990 - 1991
AiHd-95	Sacalait	Pre-Contact Indigenous	Lithic scatter	ASI 1990; 1991
AiHd-96	Bruly	Pre-Contact Indigenous	Findspot	ASI 1990; 1991
AiHd-107		Pre-Contact Indigenous	Undetermined	ASI 1994
AiHd-150		Pre-Contact Indigenous	Findspot	ASI 2007
AiHd-156		Middle Woodland	Village	ARA 2008



Table 2: Previously Completed Archaeological Assessments

Year	Title	Author	PIF	Results Summary
2001	Stage 1 & 2 Archaeological Assessment: Huron West Community, Regional Municipality of Waterloo, 30T-01201	ARA	CIF 2001-082-001	A Stage 1 and 2 archeological assessment was completed by ARA in 2001. This study encompasses the lands located at the site of the proposed Huron West Community subdivision (north of Huron Road). Three archaeological sites were identified during the course of the Stage 2 investigation: AiHc-255, AiHc-256 and AiHc-257. Stage 3 site-specific assessment were recommended for the above-mentioned archaeological sites. None of these archaeological sites were located within the current study area.
2008	Stage 1-3 Archaeological Assessment, Middle Strasburg Trunk Sanitary Sewer, Fischer-Hallman Road to Huron Road, City of Kitchener, Regional Municipality of Waterloo, Ontario	ARA	PIF P007-164-2008, P007-165-2008	This report was not available for our review. A summary included in Wood's P348-0049-2019 report (Wood 2019) indicates that: This report was not available for review from MTCS; however, ARA (2017) provided a summary of findings in one of their reports. According to ARA (2017: 8), ARA completed an assessment for an irregularly shaped 2.3-km corridor associated with the Middle Strasburg Trunk Sanitary Sewer development from Fischer-Hallman Road to Huron Road, located to the east of the study area (past Fischer-Hallman Road). Ten findspots were identified during this assessment and three were recommended for further work. Of these, a small Pre-Contact lithic scatter and an historical farmstead were found to have further cultural heritage value or interest and were recommended for avoidance and protection. Based on a review of MTCS's site database, none of these locations are within the current study area.
2009	Stage 1, 2 and 3 Archaeological Assessment, Activa Fischer-Hallman Property, Lot 110, Broken Tract Concession, Kitchener, Ontario	ARA	PIF P007-071-2005, P007-185-2005	This report was not available for our review. A summary included in Wood's P348-0049-2019 report (Wood 2019) indicates that: This report was not available for review from MTCS; however, ARA (2017) provided a summary of findings in one of their reports. According to ARA (2017: 8), ARA completed a Stage 1 & 2 archaeological assessment in 2005 and 2008 on a property located to the east of the study area (past Fischer-Hallman Road). Six findspots were identified during this assessment, of which, only one (AiHc-413) was recommended for further work. Stage 3 assessment was completed under the same report and resulted in a recommendation for Stage 4 mitigation by means of excavation. This site would be located approximately 300 m southeast of the current study area.



2010	Stage 1-2 Archaeological Assessment Williamsburg South Property, 1291 Fischer-Hallman Road, Part of Lot 2, RCP 1469, City of Kitchener, Regional Municipality of Waterloo	ARA	PIF P007- 167-2008	ARA conducted a Stage 1-2 Archaeological Assessment at 1291 Fischer-Hallman Road, overlapping with the current study area. Stage 1 background research indicated high archaeological potential and Stage 2 pedestrian survey was conducted at five metre intervals. The Stage 2 survey encountered 29 findspots, of which the following 15 sites were recommended for further work: 1) Site AiHc-414: pre-contact lithic scatter, possible village or hamlet, recommended for Stage 3 assessment; 2) Site AiHc-415: pre-contact lithic scatter, recommended for Stage 3 assessment; 3) Site AiHc-416: pre-contact scatter, possible Late Woodland village/hamlet, recommended for Stage 3 assessment; 4) Site AiHc-417: Archaic period lithic scatter, recommended for Stage 3 assessment; 5) Site AiHc-419: pre-contact lithic scatter, possible campsite or chipping station, recommended for Stage 3 assessment; 6) Site AiHc-420: pre-contact lithic scatter, possible campsite or chipping station, recommended for Stage 3 assessment; 7) Site AiHc-421: pre-contact lithic scatter, possible campsite or chipping station, recommended for Stage 3 assessment; 8) Site AiHc-422: pre-contact lithic scatter, possible chipping station, recommended for Stage 3 assessment; 9) Site AiHc-423: pre-contact lithic scatter, possible chipping station, recommended for Stage 3 assessment; 10) Site AiHc-424: Late Woodland, possibly Glen Meyer or Middleport, possible village or hamlet, recommended for Stage 3 assessment; 11) Site AiHc-425: historical Euro-Canadian mid-late 19th Century farmstead, recommended for Stage 3 assessment; 12) Site AiHc-426: pre-contact lithic scatter, possible campsite or chipping station, recommended for Stage 3 assessment; 13) Site AiHc-427: pre-contact multi-component Late Archaic and Late Woodland, possibly Glen Meyer or Middleport, possible village or hamlet, recommended for Stage 3 assessment; 14) Site AiHc-428: pre-contact lithic scatter, possible campsite or chipping station, recommended for Stage 3 assessment; and
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				15) Site AiHc-429: pre-contact lithic scatter, possible campsite or chipping station, recommended for Stage 3 assessment.
2011	Stage 1 Archaeological Assessment Kitchener Zone 4 Trunk Watermain From Ottawa Street South to Strasbourg Road, City of Kitchener, Regional Municipality of Waterloo, Ontario	ARA	PIF P007-339-2011	ARA conducted a Stage 1 Archaeological Assessment as part of the proposed Kitchener Zone 4 Trunk Watermain project. Background research and property inspection indicated that portions of the study area retained archaeological potential and were recommended for Stage 2 assessment. Areas of previous assessment or disturbance were determined to be clear of further archaeological concerns.
2013	Stage 1 and 2 Archaeological Assessments New Kitchener Zone 4 Trunk Watermain Class Environmental Assessment, City of Kitchener, Regional Municipality of Waterloo, Multiple Lots and Concessions, Geographic Township of Waterloo, Former Waterloo County, Ontario	ARA	PIF P007-501-2012	ARA conducted Stage 1 and Stage 2 Archaeological Assessments for the proposed New Kitchener Zone 4 Trunk Watermain lands. A large portion of the study area was previously assessed under P007-339-2011 (ARA 2011). Stage 2 property survey was carried out by means of test pit survey and did not result in the discovery of any archaeological materials. It was recommended that no further assessment was required for the project lands.
2014	Stage 1 and 2 Archaeological Assessments Proposed Development at 1314 Fischer-Hallman Road, City of Kitchener, Regional Municipality of Waterloo, Registrar's Compiled Plan 147, Lot 4, Bechtel's Tract, Geographic Township of Waterloo, Former Waterloo County, Ontario	ARA	PIF P007-0644-2014	ARA conducted Stage 1 and 2 Archaeological Assessments at 1314 Fischer-Hallman Road. Portions of the study area were determined to retain archaeological potential. Stage 2 property survey was carried out by means of pedestrian and test pit survey, resulting in two pre-contact findspots (AiHc-471 and AiHc-472). Neither findspot was determined to meet the S&Gs criteria for further assessment.
2017	Stage 1 and 2 Archaeological Assessments 1250, 1270 and 1314 Fischer-Hallman Road Zone Change and Site Plan Applications, City of Kitchener, Regional Municipality of Waterloo, Part of Bechtel's Tract, Geographic Township of Waterloo, Former Waterloo County, Ontario	ARA	PIF P007-0784-2016	ARA conducted Stage 1 and Stage 2 Archaeological Assessments at 1250, 1270 and 1314 Fischer-Hallman Road. Portions of the study area were previously assessed under P007-0644-2014. Part of the study area was determined to be disturbed and the remaining lands were subject to Stage 2 pedestrian and test pit survey. No archaeological materials were recovered and it was recommended that no further assessment was required for the project lands.
2007	Archaeological Assessment (Stages 1, 2 & 3) Becker Estates, Part of Lots 159 &	Archaeologix Inc.	PIF P084-030-2006,	Archaeologix Inc. conducted a Stage 1-3 Archaeological Assessment for the Becker Estates property. Portions of the study area were determined to retain



	160, German Company Tract Small Lots, Geographic Township of Waterloo, now City of Kitchener, Regional Municipality of Waterloo, Ontario		P084-087-2006	archaeological potential and Stage 2 property survey was carried out by means of pedestrian survey at 5 metre intervals. Five pre-contact Indigenous sites were identified, two of which (AiHc-363 and AiHc-364) required further Stage 3 assessment. The Stage 3 determined that due to the paucity of artifacts, no further assessment was recommended.
2012	Stage 1 Archaeological Assessment Fischer-Hallman Road Class Environmental Assessment Study, German Company Tract (Lot 37), Hiestands Tract, Bechtels Tract, Former Township of Waterloo, Waterloo County, City of Kitchener, Ontario	ASI	PIF P094-120-2012	ASI conducted a Stage 1 Archaeological Assessment for the proposed widening of Fischer-Hallman Road from Ottawa Street to Bleams Road, as well as intersection improvements at Activa Boulevard, Westmount Road/Max Becker Drive and Bleams Road. Background research and property inspection determined portions of the study area did not require further assessment due to previous assessment, extensive and deep land alterations, and low and wet conditions. Stage 2 assessment was recommended for several parcels of lands determined to retain archaeological potential.
2012	Stage 2 Archaeological Assessment of the Doehn-Foster Property, Part of Lot 153, German Company Tract Small Lot, Geographic Township of Waterloo, County of Waterloo, now in the City of Kitchener, Regional Municipality of Waterloo	ASI	PIF P047-367-2012	ASI conducted a Stage 2 Archaeological Assessment of the Doehn-Foster property, west of the current study area. Pedestrian and test pit survey was conducted at five metre intervals, resulting in the identification of one pre-contact lithic site (AiHc-455), two pre-contact lithic findspots (P1 and P3), and one historical Euro-Canadian site, the Ferguson Site (AiHc-454). The Ferguson Site (AiHc-454) was recommended for Stage 3 site-specific assessment; the pre-contact site (AiHc-455) and findspots (P1 and P3) did not meet the S&Gs criteria for further assessment.
2013	Stage 3 Archaeological Assessment of the Ferguson Site (AiHc-454), 1683 Huron Road, Part of Lot 153, German Company Tract Small Lot, Geographic Township of Waterloo, County of Waterloo, now the City of Kitchener, Regional Municipality of Waterloo	ASI	PIF P375-002-2012	ASI conducted a Stage 3 Archaeological Assessment of the Ferguson Site (AiHc-454), associated with the homelot of a nineteenth-century farmhouse. The Stage 3 consisted of the excavation of 38 one-metre square test units and defined the limits of the site. A comprehensive Stage 4 avoidance and protection strategy was recommended.
2016	Stage 4 Archaeological Monitoring of the Avoidance and Protection of the Ferguson Site (AiHc-454) During the Installation of New Services at 1683 Huron Road, City of Kitchener, Regional Municipality of Waterloo, Ontario	ASI	PIF P1066-0003-2016	ASI conducted Stage 4 archaeological monitoring of the Ferguson Site (AiHc-454) during the installation of the new services trench at 1683 Huron Road. No alterations were made to the site during the monitoring and the service trench was recommended to be considered clear of any further archaeological concern.



2016	Stage 1 Archaeological Assessment Fischer-Hallman Road Improvements From Bleams Road to Plains Road (Former Township of Waterloo, County of Waterloo), Regional Municipality of Waterloo, Ontario	ASI	PIF P392- 0106-2014	ASI conducted a Stage 1 Archaeological Assessment of the Fischer-Hallman Road corridor from approximately 50 m south of Bleams Road to 250 m south of Plains Road. Portions of the study area were determined to not require further archaeological assessment due to previous disturbance by ROW construction and grading, and low and wet and steeply sloping conditions. The Williamsburg Cemetery was noted to be adjacent to the existing ROW and avoidance recommended. Stage 2 Archaeological Assessment was recommended for remaining lands retaining archaeological potential.
2017	Preliminary Report: Stage 4 Archaeological Mitigation of Williamsburg South Location 1 (AiHc- 414) at 1291 Fischer Hallman Road, City of Kitchener, Regional Municipality of Waterloo, Ontario	Bluestone Research Inc.	PIF P344- 0076-2016	Bluestone Research Inc. conducted a Stage 4 Archaeological Mitigation of Site AiHc-414, a Late Woodland village site. The Stage 4 mitigation consisted of the block excavation of 915 one-metre square units, and subsequent mechanical topsoil removal. Approximately 35,000 pre-contact artifacts were recovered, including chipped stone tool, ground stone tools, pottery, faunal remains, carbonized botanical remains, jewelry, and personal items. Four longhouses were identified, including a complete longhouse with a partial overlying longhouse, a smaller almost round house, and a partial longhouse that continued under Fischer-Hallman Road. 149 cultural features were identified, including 8 sweat lodges, 4 hearths, and 112 refuse pits of varying sizes. AiHc-414 was determined to be associated with the adjacent AiHc-416 and AiHc-427, and part of a Late Woodland Village site. The report indicated that no further assessment is recommended for AiHc-414 within the proposed development. However, the report includes the following recommendation for Longhouse 5, which extends outside of the proposed development to the northeast under Fischer-Hallman Road: <i>A Stage 3 assessment to determine the limits of the site is required prior to any future land disturbance. The Stage 3 assessment should consist of archaeological monitoring for any work being conducted through Fischer-Hallman Road to determine if site exists and appropriate Stage 4 mitigation strategies be recommended.</i>
2017	Stage 4 Archaeological Mitigation of Williamsburg South Location 2 (AiHc- 415) at 1291 Fischer Hallman Road, City of Kitchener, Regional Municipality of Waterloo, Ontario	Bluestone Research Inc.	PIF P344- 0077-2016	Bluestone Research Inc. conducted a Stage 4 Archaeological Mitigation of Site AiHc-415, a small pre-contact lithic scatter. The Stage 4 mitigation consisted of the block excavation of 8 one-metre square units, and subsequent mechanical topsoil removal, based on the consideration of the site being a possible extension of AiHc-414. A total of 42 pre-contact artifacts were recovered, including chipped detritus, a utilized flake and a fragmentary faunal remain. No



				settlement pattern, diagnostic material, or cultural features were identified for AiHc-415. The report concluded that AiHc-415 could represent an outlying activity area associated with the adjacent Late Woodland Village (AiHc-414, AiHc-416 and AiHc-427) or it could be its own discreet scatter. Site AiHc-415 was recommended to not require further assessment.
2017	Preliminary Report: Stage 4 Archaeological Mitigation of Williamsburg South Location 27 (AiHc-427) at 1291 Fischer Hallman Road, Part of the Histan Tract, now in Part of Lot 2, Registrar's Compiled Plan 1469, City of Kitchener, Regional Municipality of Waterloo, Ontario	Bluestone Research Inc.	PIF P344-0080-2016	Bluestone Research Inc. conducted a Stage 4 Archaeological Mitigation of Site AiHc-427, a Late Woodland site. The Stage 4 mitigation consisted of the block excavation of 890 one-metre square units, and subsequent mechanical topsoil removal. A total of 21,600 pre-contact artifacts were recovered, including chipped stone tools, ground stone tools, pottery, faunal remains, carbonized botanical remains, jewelry, and personal items. Four longhouses and 149 cultural features were identified, including 10 sweat lodges, 4 hearths, 1 midden, and 116 refuse pits of varying sizes. AiHc-427 was determined to be associated with the adjacent AiHc-414 and AiHc-416, and part of a Late Woodland Village site. Site AiHc-427 was recommended to not require further assessment.
2018	Stage 4 Archaeological Mitigation of Williamsburg South Location 25 (AiHc-426) at 1291 Fischer Hallman Road, City of Kitchener, Regional Municipality of Waterloo, Ontario	Bluestone Research Inc.	PIF P344-0108-2016	Bluestone Research Inc. conducted a Stage 4 Archaeological Mitigation of Site AiHc-426, a small pre-contact lithic scatter. The Stage 4 mitigation consisted of the block excavation of 268 one-metre square units. A total of 3,956 artifacts were recovered, including chipping detritus, utilized flakes, retouched flakes, bifaces, projectile points and point fragments, faunal elements, a scraper, and a ground stone fragment. Two cultural features were also identified. The report suggested that the site represents seasonal campsites dating to the Middle and Late Archaic Periods. Site AiHc-426 was recommended to not require further assessment.
1990	Archaeological Resource Assessment Survey, Draft Plans of Subdivision 30T-84004, 30T-89020 & 30T-90024, City of Kitchener, R.M. of Waterloo	Mayer, Poulton and Associates	CIF #89-021, 89-049, 89-064	This report was not available for our review. A summary included in Wood's P348-0049-2019 report (Wood 2019) indicates that: MPA completed a pedestrian survey and test-pit survey of 114 ha of land located east of Fischer-Hallman Road and north of Huron Road. MPA's study area includes existing portions of the current study area. A total of 18 Aboriginal findspots/sites and one nineteenth century Euro-Canadian domestic midden were identified. Five findspots (identified as sites B [AiHc-108], C [AiHc-107], E [AiHc-115], F [AiHc-116], and G [AiHc-117]) were recommended for further work, and it was recommended that three others (Sites L [AiHc-112], M [AiHc-113], and P [AiHc-



				106]) be subjected to an intensive surface collection to assess cultural heritage value or interest. Based on a review of MTCS's site database, none of these sites are located within the current study area.
2012	Stage 1-2 Archaeological Assessment Pumpkin Patch Lands, Fischer-Hallman and Huron Road, Part of Lot 153, German Company Tract Small Lots, Geo. Twp. Of Waterloo, now Part 4, Plan 58R-8992 (PIN 22728-0021), City of Kitchener, R.M. Waterloo, Waterloo County, Ontario	Stantec	PIF P379-009-2012	Stantec conducted a Stage 1-2 Archaeological Assessment at the northwest corner of Fischer-Hallman and Huron Roads. Stage 2 property survey was carried out by means of pedestrian and test pit survey, resulting in the identification of one pre-contact Indigenous findspot. Given the isolated and non-diagnostic nature of the find, the findspot was determined not to meet the S&Gs criteria for further assessment.
2013	Stage 1 to 2 Archaeological Assessment Mazmanian Property, Plan 1469, Lot South of Bleams Road, Hiestand Tract, formerly Waterloo Township, now City of Kitchener, Regional Municipality of Waterloo, Ontario	Stantec	PIF P001-695-2012	Stantec conducted a Stage 1 and 2 Archaeological Assessment at the Mazmanian Property, south of Bleams Rd and along the west side of Fischer-Hallman Road. Portions of the study area were determined to be previously disturbed, areas of steep slope, and a small pond. The remaining areas were subject to Stage 2 by means of pedestrian and test pit survey, at 5 metre intervals. A pre-contact scatter and a late 19 th /early 20 th Century Euro-Canadian scatter were identified and determined not to meet the S&Gs criteria for further assessment.
2016	Stage 3 Archaeological Assessment: Location 1 (AiHc-414), Williamsburg South Subdivision, 1291 Fischer-Hallman Road, Part of the Hiestand Tract, Geographic Township of Waterloo, former Waterloo County, now Part of Lot 2, Registrar's Compiled Plan 1469, City of Kitchener, Regional Municipality of Waterloo	Stantec	PIF P256-0358-2015	Stantec conducted a Stage 3 Archaeological Assessment of Site AiHc-414, located at 1291 Fischer-Hallman Road. The Stage 3 assessment consisted of a CSP and test unit excavation and resulted in the general interpretation of the site as a Late Woodland village or hamlet, dating to the Middle to Late Ontario Iroquoian Tradition. Possible evidence of former structures was also uncovered. Site AiHc-414 was determined to retain further cultural heritage value or interest and Stage 4 mitigation was recommended.
2016	Stage 3 Archaeological Assessment: Location 2 (AiHc-415), Williamsburg South Subdivision, 1291 Fischer-Hallman Road, Part of the Hiestand Tract, Geographic Township of Waterloo, former Waterloo County,	Stantec	PIF P256-0356-2015	Stantec conducted a Stage 3 Archaeological Assessment of Site AiHc-415, located at 1291 Fischer-Hallman Road. The Stage 3 assessment resulted in the delineation of a small pre-contact Indigenous campsite or activity area for stone tool maintenance. Site AiHc-415 was determined to retain further cultural heritage value or interest and Stage 4 mitigation was recommended.



	now Part of Lot 2, Registrar's Compiled Plan 1469, City of Kitchener, Regional Municipality of Waterloo			
2016	Stage 3 Archaeological Assessment: Location 7 (AiHc-417), Williamsburg South Subdivision, 1291 Fischer-Hallman Road, Part of the Hiland Tract, Geographic Township of Waterloo, former Waterloo County, now City of Kitchener, Regional Municipality of Waterloo, Ontario	Stantec	PIF P256-0359-2015	Stantec conducted a Stage 3 Archaeological Assessment of Site AiHc-417, located at 1291 Fischer-Hallman Road. The Stage 3 assessment resulted in the recovery of 79 Indigenous artifacts. Site AiHc-417 was interpreted as a small temporary campsite for lithic tool reworking and maintenance. Due to the paucity of artifacts recovered, it was determined that Site AiHc-417 did not meet the S&Gs criteria for further assessment.
2016	Stage 3 Archaeological Assessment: Locations 21 (AiHc-424), 27 (AiHc-427), and 28 (AiHc-428), Williamsburg South Subdivision, 1291 Fischer-Hallman Road, Part of the Hiland Tract, Geographic Township of Waterloo, former Waterloo County, now City of Kitchener, Regional Municipality of Waterloo, Ontario	Stantec	PIF P256-0360-2015, P256-0362-2015, P256-0364-2015	Stantec conducted a Stage 3 Archaeological Assessment of Sites AiHc-424, AiHc-427, and AiHc-428, located at 1291 Fischer-Hallman Road. During the Stage 3 assessment, the three sites were consolidated into one single site under AiHc-427. Site AiHc-427 was identified as a moderate-sized Middle to Late Ontario Iroquoian occupation, possibly a hamlet or small village. Site AiHc-427 was determined to retain further cultural heritage value or interest and Stage 4 mitigation was recommended.
2016	Stage 3 Archaeological Assessment: Location 25 (AiHc-426), Williamsburg South Subdivision, 1291 Fischer-Hallman Road, Part of the Hiland Tract, Geographic Township of Waterloo, former Waterloo County, now City of Kitchener, Regional Municipality of Waterloo, Ontario	Stantec	PIF P256-0361-2015	Stantec conducted a Stage 3 Archaeological Assessment of Site AiHc-426, located at 1291 Fischer-Hallman Road. The Stage 3 assessment consisted of a CSP and test unit excavation, resulting in the interpretation of the site as an Indigenous camp site dating to the Middle to Late Archaic Period. Possible evidence of former structures was also uncovered. Site AiHc-426 was determined to retain further cultural heritage value or interest and Stage 4 mitigation was recommended.
2016	Stage 1-2 Archaeological Assessment: Williamsburg South Subdivision, 1255 Fischer-Hallman Road, Part of the Hiland Tract, Geographic Township of Waterloo, former Waterloo County,	Stantec	PIF P256-0382-2015	Stantec conducted a Stage 1-2 Archaeological Assessment at 1255 Fischer-Hallman Road. Stage 2 property survey was carried out by means of test pit survey at 5 metre intervals. No archaeological resources were identified and it was determined that no further archaeological assessment of the study area is required.



	now City of Kitchener, Regional Municipality of Waterloo, Ontario			
2017	Stage 1 and Stage 2 Archaeological Assessment: South Kitchener District Park, Part of Lot 152, German Company Tract, Geographic Township of Waterloo, former Waterloo County, now City of Kitchener, Regional Municipality of Waterloo, Ontario	Stantec	PIF P083-0264-2015, P083-0288-2016	Stantec conducted Stage 1 and Stage 2 Archaeological Assessments for the proposed South Kitchener District Park, located at the southwest corner of Huron Road and Fischer-Hallman Road. Background research and property inspection determined that portions of the study area were previously disturbed. Stage 2 property survey was carried out by pedestrian and test pit survey, resulting in the identification of one archaeological site (AiHc-481), a large and sparse pre-contact lithic scatter. The site was determined to not meet the S&Gs criteria for further assessment.
2018	Stage 2 Archaeological Assessment Parts 3 and 4 on Reference Plan 58R-19075, 1375 Bleams Road, Kitchener, Ontario	Wood	PIF P348-0039-2018	Wood conducted a Stage 2 Archaeological Assessment at 1375 Bleams Road. Stage 2 property survey was carried out by means of test pit survey at 5 metre intervals. No cultural artifacts were encountered and the study area was determined to not require further assessment.
2018	Stage 1 & 2 Archaeological Assessment Parts 3, 4, 5 and 6 of Registered Plan 58R-19758, 1340 Fischer-Hallman Road, Kitchener, Ontario	Wood	PIF P348-0041-2018	Wood conducted a Stage 1 & 2 Archaeological Assessment at 1340 Fischer-Hallman Road. Portions of the study area were determined to have been previously disturbed, permanently wet, and steeply sloping. The remaining lands were subject to Stage 2 test pit survey, at 5 metre intervals. No archaeological materials were identified and the study area was determined to not require further assessment.
2019	Stage 1 Archaeological Assessment Fischer-Hallman Road Improvements, from Bleams Road to 140 m south of Plains Road, City of Kitchener, Regional Municipality of Waterloo, Ontario	Wood	PIF P348-0049-2019	Wood conducted a Stage 1 Archaeological Assessment for future Fischer-Hallman Road improvements, from Bleams Road to 140 m south of Plains Road. Background research indicated undisturbed portions of the study area that retain archaeological potential. Portions of the study area were determined to have been previously disturbed. Stage 2 assessment was recommended for several areas and Stage 3 assessment was recommended for the portion of Site AiHc-414 that is located within the study area. The Williamsburg Cemetery was documented to be adjacent to the existing ROW property boundary and it was recommended that cemetery lands should be avoided.
2019	Stage 2 Archaeological Assessment Western Boulevard of Fischer-Hallman Road, between Bleams Road and north of Seabrook Drive, Plan of Survey, Part	Wood	PIF P348-0043-2018	Wood conducted a Stage 2 Archaeological Assessment for lands along the western boulevard of Fischer-Hallman Road from Bleams Road to north of Seabrook Drive. Stage 2 property survey was carried out by means of test pit survey at 5 metre intervals. 75 artifacts were encountered within a 13m x 3m



	of Lots 2 and 3, Registrar's Compiled Plan 1469, City of Kitchener, Regional Municipality of Waterloo			area, associated with Site AiHc-414, a Late Woodland village site. Many of the artifacts were found in disturbed contexts but within 20 m of Site AiHc-414. The report indicated that the overburden within the current study area was thoroughly disturbed during road, ditch and driveway construction. Intact soils were observed within a part of the area and there still exists a possibility of finding undisturbed cultural features in the subsoil in a 20 m buffer around Site AiHc-414. As such, portions of Site AiHc-414 were determined to exhibit cultural heritage value or interest and Stage 3 site-specific assessment was recommended. The required 20 m protective buffer and 50 m monitoring buffer were also identified.
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Current Work: AiHc-414

The AiHc-414 site, a Late Woodland village site, was subject to Stage 4 mitigative excavation by Bluestone Research Inc. in 2016 (Bluestone Research Inc., 2017). The project was undertaken in advance of draft Plan approval for a housing development at 1291 Fischer-Hallman Road, located immediately south of Bleams Road on the west side of Fischer-Hallman Road. The excavation consisted of block excavation followed by mechanical topsoil removal. A total of four structures were identified, including longhouse 5 which extends outside of the proposed development into the Fischer-Hallman Road ROW. Bluestone recommended additional Stage 3 assessment to determine the limits of the site.

In 2019 Wood Environment & Infrastructure Solutions completed a Stage 2 archaeological assessment for a 23 m by 3 m area (2019b). During the test pit survey the AiHc-414 site was encountered. The report found that despite previous disturbance on the surface, portions of the site are intact below and exhibit cultural heritage value or interest and warrant further investigation. Stage 3 site-specific assessment was recommended in this area, which corresponds to the area of Longhouse 5 recommended for further work by Bluestone.

The Stage 3 assessment by Wood is on going. As such, a report is not available for ASI to review and incorporate the results into this memo.

Recommendations: Further Work

Based on a review of above summarized archaeological assessments, completed within or adjacent to the Study Area, ASI makes the following recommendations:

1. Parts of the Study Area exhibit archaeological potential and require Stage 2 archaeological assessment by means of test pit survey (Figures 5-6: areas in green). Test pits are excavated at an interval of 5 m, are approximately 30 cm in diameter, and are excavated to subsoil in order to facilitate the identification of any subsurface cultural deposits. The soil fills of all test pits are screened through 6 mm mesh to facilitate the recovery of cultural material. All test pits will be back-filled immediately, and their location will be recorded on field maps;
2. Parts of the Study Area have been previously assessed as disturbed and recommendations made for no further work. However, due to the high archaeological potential of this area and the discovery of intact archaeological site deposits associated with AiHc-414 below fill, ASI recommends Stage 2 test pit survey to confirm the extent of existing disturbance. Test pits will be placed at intervals determined in the field according to professional judgement, and where physically viable (i.e where utility locates permit) to confirm that these areas have been completely and deeply disturbed; and
3. During any further archaeological assessments, meaningful engagement with Indigenous communities should be conducted, as outlined in Section 3.5 of the S & G (MHSTCI 2011a: 62-63) and Engaging Aboriginal Communities in Archaeologist Technical Bulletin (MHSTCI, 2011b: 3).

Notwithstanding the results and recommendations presented in this memorandum, ASI notes that no archaeological assessment, no matter how thorough or carefully completed, can necessarily predict, account for, or identify every form of isolated or deeply buried archaeological deposit. If archaeological remains are



found during subsequent construction activities, the consultant archaeologist, Region of Waterloo, and the Archaeological Programs Unit of the MHSTCI should be immediately notified.



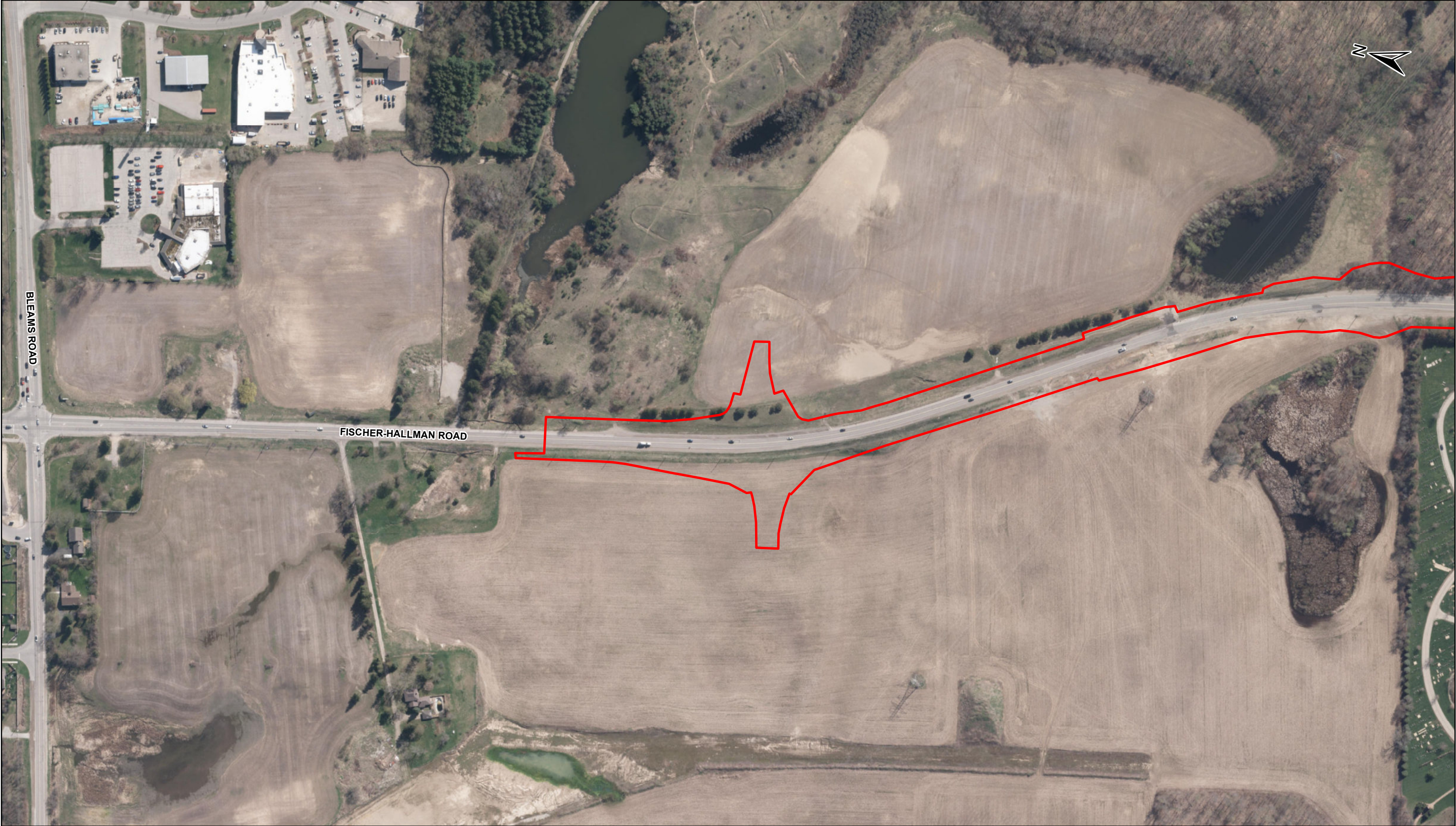
Bibliography

- ASI, (Archaeological Services Inc.). (2016). Stage 1 Archaeological Assessment (Background Study and Property Inspection) Fischer-Hallman Road Improvements From Bleams Road to Plains Road Former Township of Waterloo, County of Waterloo, Regional Municipality of Waterloo, Ontario. Report on file with the Ontario Ministry of Heritage, Sport, Tourism and Culture Industries.
- Bluestone Research Inc. (2017). Preliminary Report: Stage 4 Archaeological Mitigation of Williamsburg South Location 1 (AiHc-414) at 1291 Fischer Hallman Road, City of Kitchener, Regional Municipality of Waterloo, Ontario. Report on file with the Ontario Ministry of Heritage, Sport, Tourism and Culture Industries.
- MHSTCI, (Ministry of Heritage, Sport, Tourism and Culture Industries). (2011a). Standards and Guidelines for Consultant Archaeologists. Cultural Programs Branch, Ontario Ministry of Tourism and Culture.
- MHSTCI, (Ministry of Heritage, Sport, Tourism and Culture Industries). (2011b). Engaging Aboriginal Communities in Archaeology: A Draft Technical Bulletin for Consultant Archaeologists in Ontario.
- Wood Environment & Infrastructure Solutions. (2019a). Original Report: Stage 1 Archaeological Assessment: Fischer-Hallman Road Improvements, from Bleams Road to 140 m south of Plains Road, City of Kitchener, Regional Municipality of Waterloo, Ontario. Project #SWW1181149.3000.
- Wood Environment & Infrastructure Solutions. (2019b). Stage 2 Archaeological Assessment: Western Boulevard of Fischer-Hallman Road, between Bleams Road and north of Seabrook Drive, Plan of Survey, Part of Lots 2 and 3, Registrar's Compiled Plan 1469, City of Kitchener, Regional Municipality of Waterloo, prepared for the Regional Municipality of Waterloo [PIF P348-0043-2018].



Mapping





	 STUDY AREA	Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Projection: NAD 1983 UTM Zone 17N Scale: 1:3,000 Page Size: 11 x 17	 0 150 Metres
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Figure 1: Fischer-Hallman Road Improvements Study Area



	 STUDY AREA	Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community	0  150 Metres

Figure 2: Fischer-Hallman Road Improvements Study Area



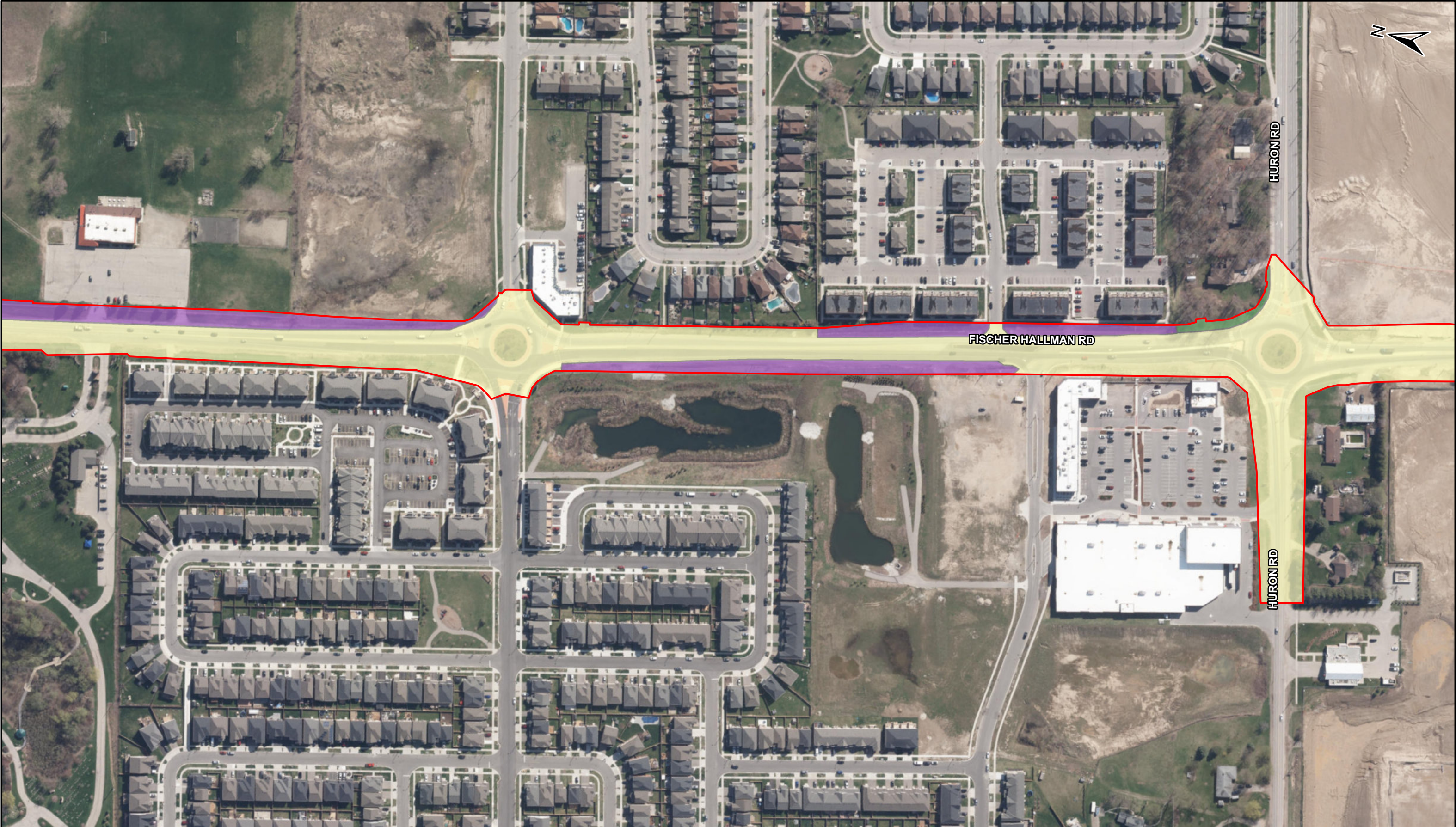
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		Projection: NAD 1983 UTM Zone 17N Scale: 1:3,000 Page Size: 11 x 17	ASI PROJECT NO.: 21EA-050 DATE: 2021-06-26	DRAWN BY: A.C. FILE: 21EA050_Fig1-3

Figure 3: Fischer-Hallman Road Improvements Study Area



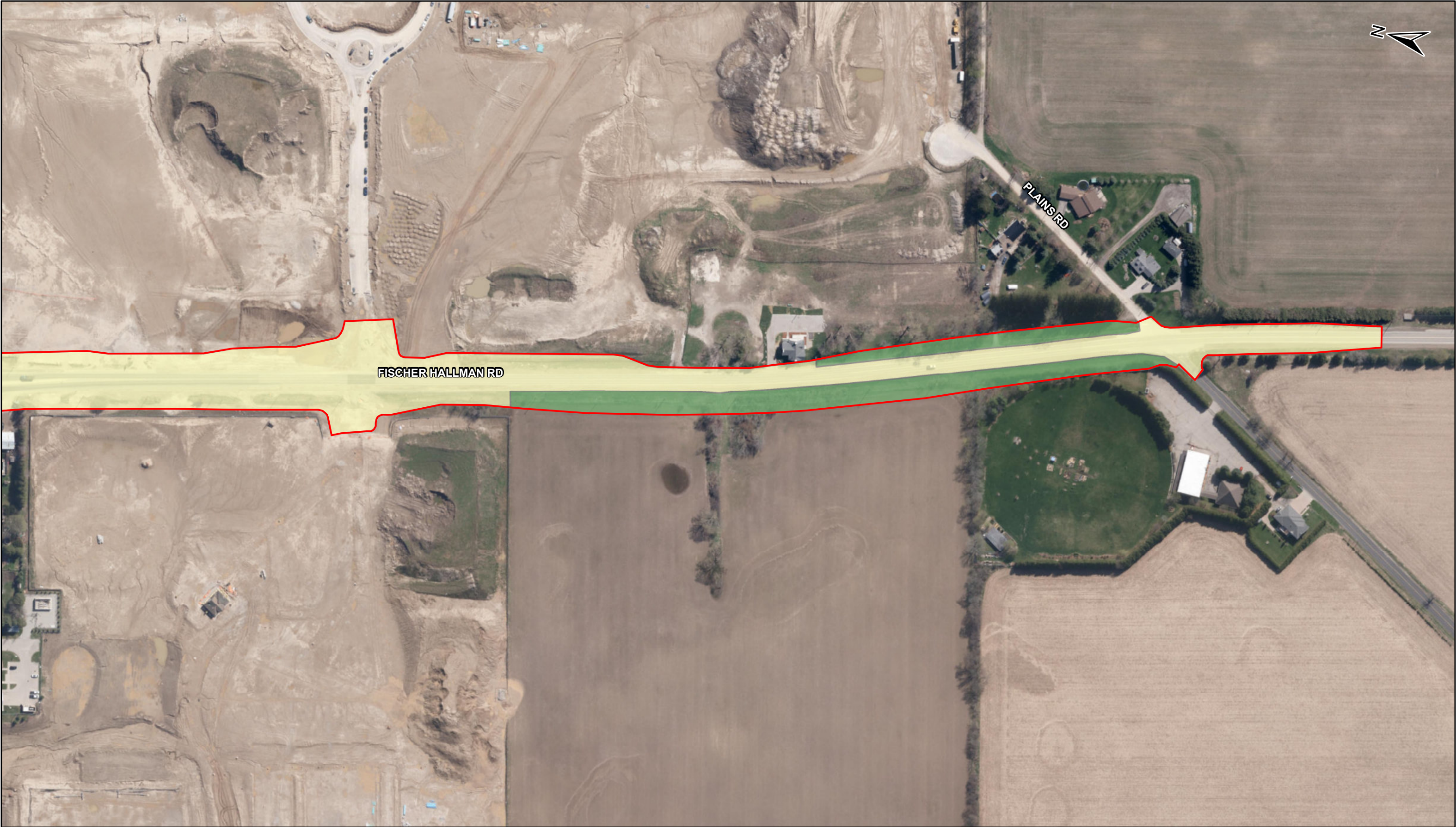
	 STUDY AREA	 PREVIOUSLY ASSESSED NO FURTHER WORK REQUIRED: SEE APPENDIX A
		 JUDGMENTAL TEST PIT SURVEY REQUIRED
	Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Projection: NAD 1983 UTM Zone 17N Scale: 1:2,490 Page Size: 11 x 17	
		0 100 Metres ASI PROJECT NO.: 21EA-050 DRAWN BY: JF DATE: 2021-07-29 FILE: 21EA050_Results

Figure 4: Areas Requiring Further Assessment [Sheet 1]



	 STUDY AREA	 PREVIOUSLY ASSESSED NO FURTHER WORK REQUIRED: SEE APPENDIX A
	 TEST PIT SURVEY AT 5M INTERVAL REQUIRED	 JUDGMENTAL TEST PIT SURVEY REQUIRED
Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Projection: NAD 1983 UTM Zone 17N Scale: 1:2,490 Page Size: 11 x 17		
		0 100 Metres ASI PROJECT NO.: 21EA-050 DATE: 2021-07-29 DRAWN BY: JF FILE: 21EA050_Results

Figure 5: Areas Requiring Further Assessment [Sheet 2]



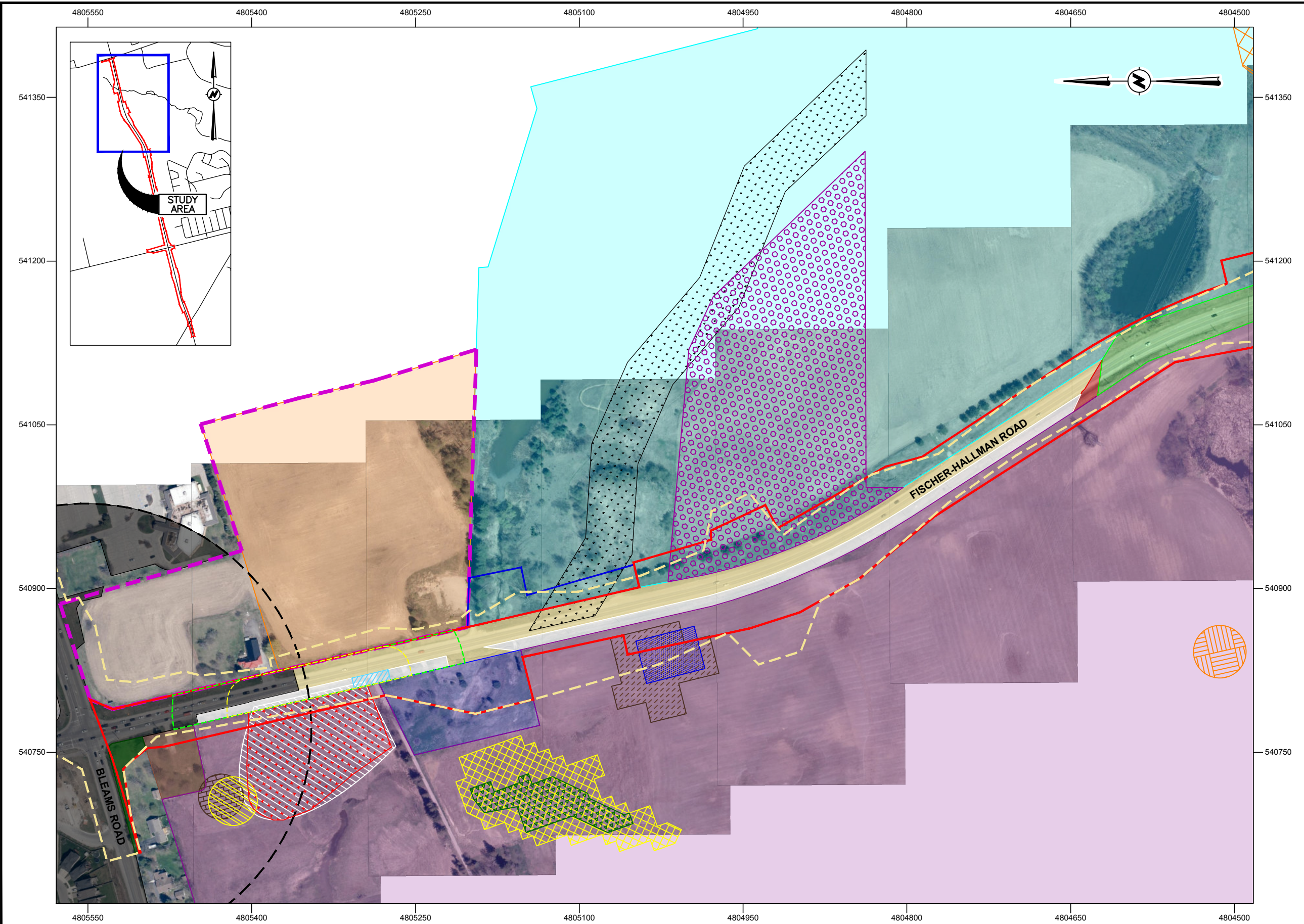
	 STUDY AREA	 PREVIOUSLY ASSESSED NO FURTHER WORK REQUIRED: SEE APPENDIX A
		 TEST PIT SURVEY AT 5M INTERVAL REQUIRED
	Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Projection: NAD 1983 UTM Zone 17N Scale: 1:2,490 Page Size: 11 x 17	
		0 100 Metres ASI PROJECT NO.: 21EA-050 DRAWN BY: JF DATE: 2021-07-29 FILE: 21EA050_Results

Figure 6: Areas Requiring Further Assessment [Sheet 3]

Appendix A



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PROJECT:
STAGE 1 ARCHAEOLOGICAL ASSESSMENT
FISCHER-HALLMAN ROAD
FROM BLEAMS ROAD TO PLAINS ROAD
KITCHENER, ONTARIO

TITLE:
AERIAL PHOTOGRAPH OF STUDY AREA SHOWING
PREVIOUS ARCHAEOLOGICAL INVESTIGATIONS

LEGEND:

- ARCHAEOLOGICAL ASSESSMENT (CIF 89-021, 89-049, 89-064; MAYER, POULTON AND ASSOCIATES, 1989; REPORT NOT AVAILABLE - STUDY AREA OBTAINED FROM ARA 2017.8)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (CIF 2001-082-001; ARA 2001)
- ARCHAEOLOGICAL ASSESSMENT (PIF P007-071-2005, P007-185-2005; ARA 2006; REPORT NOT AVAILABLE - STUDY AREA OBTAINED FROM ARA 2017.8)
- STAGE 1, 2 & 3 ARCHAEOLOGICAL ASSESSMENT (PIF P084-030-2006 & P084-087-2006; ARCHAEOLOGIX 2007)
- STAGE 1, 2 & 3 ARCHAEOLOGICAL ASSESSMENT (PIF P007-164-2008, P007-165-2008; REPORT NOT AVAILABLE - STUDY AREA OBTAINED FROM ARA 2017.8)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P007-167-2008; ARA 2010)
- STAGE 1 ARCHAEOLOGICAL ASSESSMENT (PIF P007-339-2011; ARA 2011)
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT (PIF P047-367-2012; ASI 2012)
- STAGE 1 ARCHAEOLOGICAL ASSESSMENT (PIF P094-120-2012; ASI 2012)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P379-009-2012; STANTEC 2012)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P001-695-2012; STANTEC 2013)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P007-501-2012; ARA 2013)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P007-0644-2014; ARA 2014)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P375-002-2012; ASI 2013)
- STAGE 1 ARCHAEOLOGICAL ASSESSMENT (PIF P392-0106-2014; ASI 2016)
- STAGE 1 ARCHAEOLOGICAL ASSESSMENT (PIF P1066-0003-2016; STANTEC 2016)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0382-2015; STANTEC 2016a)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0356-2015; STANTEC 2016b)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0358-2015; STANTEC 2016c)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0360-2015, P256-0362-2015, P256-0364-2015; STANTEC 2016d)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0361-2015; STANTEC 2016e)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0359-2015; STANTEC 2016f)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P007-0784-2016; ARA 2017)
- STAGE 4 ARCHAEOLOGICAL ASSESSMENT (PIF P344-0077-2016; BLUESTONE 2017a)
- STAGE 4 ARCHAEOLOGICAL ASSESSMENT (PIF P344-0076-2016; BLUESTONE 2017b)
- STAGE 4 ARCHAEOLOGICAL ASSESSMENT (PIF P344-0080-2016; BLUESTONE 2017c)
- STAGE 4 ARCHAEOLOGICAL ASSESSMENT (PIF P344-0108-2016; BLUESTONE 2018)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P083-0288-2016; STANTEC 2017)
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT (PIF P348-0039-2018; Wood 2018)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P348-0041-2018; Wood 2018)
- STAGE 1 ARCHAEOLOGICAL ASSESSMENT (PIF P348-0043-2018; Wood 2019)
- ESTIMATED AREA RECOMMENDED FOR STAGE 3 AA (SUBJECT TO CHANGE DEPENDING ON FINDINGS) (PIF P348-0043-2018; Wood 2019)
- 20m PROTECTIVE BUFFER (PIF P348-0043-2018; Wood 2019)
- 50m MONITORING BUFFER (PIF P348-0043-2018; Wood 2019)
- STUDY AREA (CURRENT INVESTIGATION)

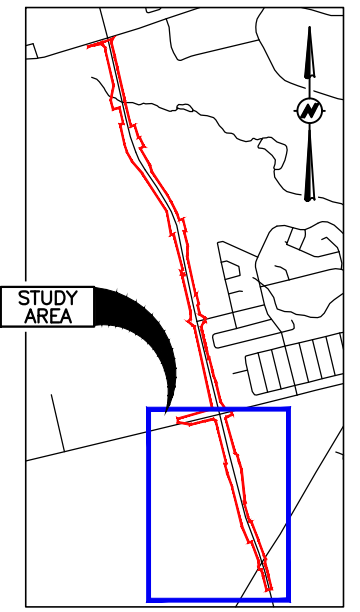
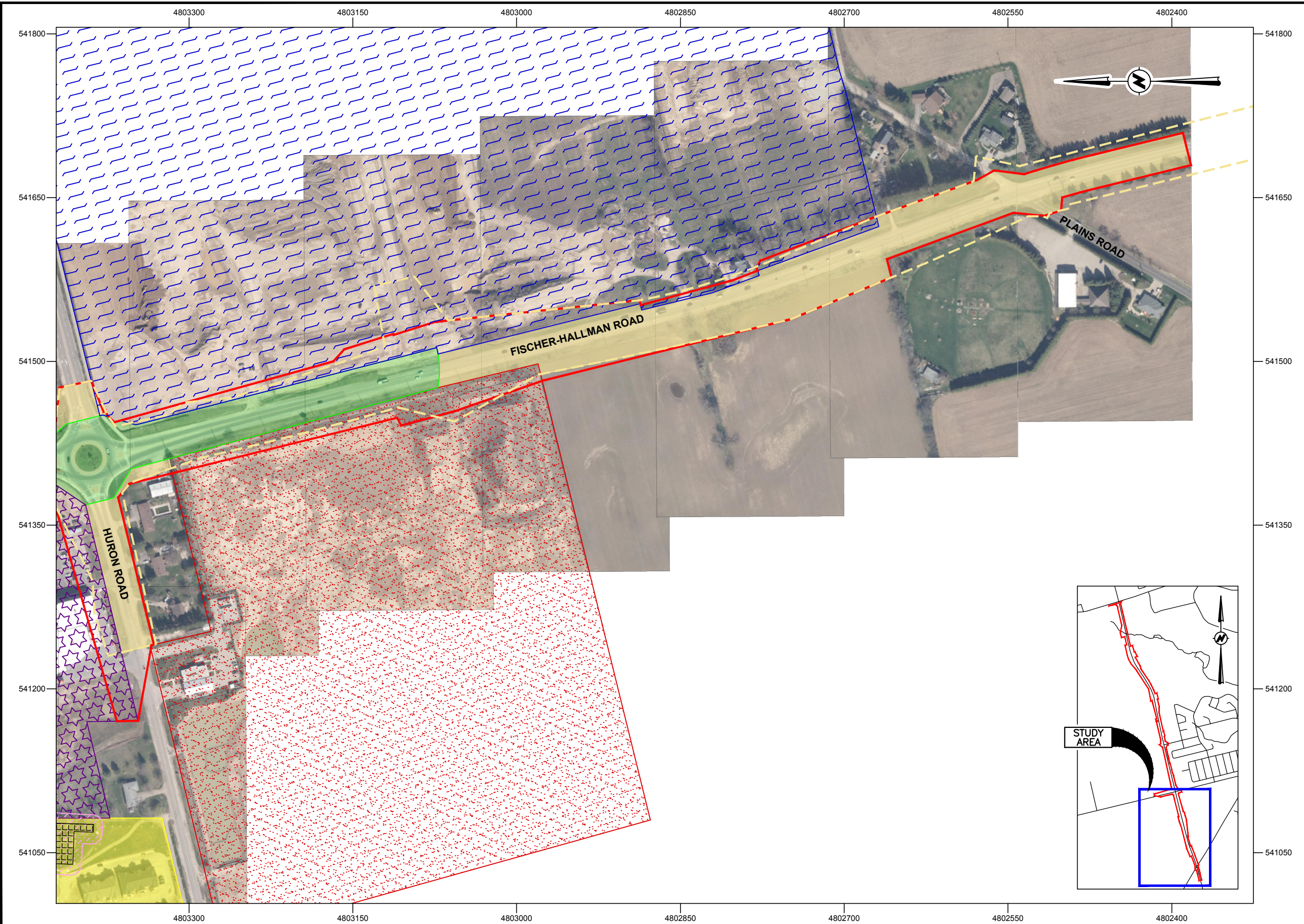
Region of Waterloo
150 FREDERICK STREET
KITCHENER, ONTARIO, N2G 4J3

Wood
Environment & Infrastructure Solutions
900 MAPLE GROVE ROAD, UNIT 10
CAMBRIDGE, ONTARIO, N3H 4R7
519-650-7100

NOTES:
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ALL LOCATIONS ARE APPROXIMATE. **ORIGINAL PAPER SIZE: 11 x 17.**
REFERENCES:
2018 AERIAL PHOTOGRAPHS BY THE REGION OF WATERLOO; CANMAP STREETFILES V2008.4.

DWN BY:	CHK'D BY:	DATE:
SJL	BS	MAR. 20, 2019
DATUM:	PROJECTION:	PROJECT No:
NAD83	UTM Zone 17	SWW181149.3000
REV No:		FIGURE No:
1		5A

DATE PLOTTED: 3/26/2019 5:46:44 PM
FILE LOCATION: P:\2018 Archaeology\Projects\SWW181149.3000 - Cap Analysis, Bleams Rd to Plains Rd\Drafting\AutoCAD files\SWW181149.3000-R01005.dwg



PROJECT:
STAGE 1 ARCHAEOLOGICAL ASSESSMENT
FISCHER-HALLMAN ROAD
FROM BLEAMS ROAD TO PLAINS ROAD
KITCHENER, ONTARIO

TITLE:
AERIAL PHOTOGRAPH OF STUDY AREA SHOWING
PREVIOUS ARCHAEOLOGICAL INVESTIGATIONS

LEGEND:

- ARCHAEOLOGICAL ASSESSMENT (CIF 89-021, 89-049, 89-064; MAYER, POULTON AND ASSOCIATES, 1989; REPORT NOT AVAILABLE - STUDY AREA OBTAINED FROM ARA 2017.8)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (CIF 2001-082-001; ARA 2001)
- ARCHAEOLOGICAL ASSESSMENT (PIF P007-071-2005, P007-185-2005; ARA 2006; REPORT NOT AVAILABLE - STUDY AREA OBTAINED FROM ARA 2017.8)
- STAGE 1, 2 & 3 ARCHAEOLOGICAL ASSESSMENT (PIF P084-030-2006 & P084-087-2006; ARCHAEOLOGIX 2007)
- STAGE 1, 2 & 3 ARCHAEOLOGICAL ASSESSMENT (PIF P007-164-2008, P007-165-2008; REPORT NOT AVAILABLE - STUDY AREA OBTAINED FROM ARA 2017.8)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P007-167-2008; ARA 2010)
- STAGE 1 ARCHAEOLOGICAL ASSESSMENT (PIF P007-339-2011; ARA 2011)
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT (PIF P047-367-2012; ASI 2012)
- STAGE 1 ARCHAEOLOGICAL ASSESSMENT (PIF P094-120-2012; ASI 2012)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P379-009-2012; STANTEC 2012)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P001-695-2012; STANTEC 2013)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P007-501-2012; ARA 2013)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P007-0644-2014; ARA 2014)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P375-002-2012; ASI 2013)
- STAGE 1 ARCHAEOLOGICAL ASSESSMENT (PIF P392-0106-2014; ASI 2016)
- STAGE 4 ARCHAEOLOGICAL ASSESSMENT (PIF P1066-0003-2016; ASI 2016)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0382-2015; STANTEC 2016a)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0356-2015; STANTEC 2016b)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0358-2015; STANTEC 2016c)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0360-2015, P256-0362-2015, P256-0364-2015; STANTEC 2016d)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0361-2015; STANTEC 2016e)
- STAGE 3 ARCHAEOLOGICAL ASSESSMENT (PIF P256-0359-2015; STANTEC 2016f)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P007-0784-2016; ARA 2017)
- STAGE 4 ARCHAEOLOGICAL ASSESSMENT (PIF P344-0077-2016; BLUESTONE 2017a)
- STAGE 4 ARCHAEOLOGICAL ASSESSMENT (PIF P344-0076-2016; BLUESTONE 2017b)
- STAGE 4 ARCHAEOLOGICAL ASSESSMENT (PIF P344-0080-2016; BLUESTONE 2017c)
- STAGE 4 ARCHAEOLOGICAL ASSESSMENT (PIF P344-0108-2016; BLUESTONE 2018)
- STAGE 1 & 2 ARCHAEOLOGICAL ASSESSMENT (PIF P083-0288-2016; STANTEC 2017)
- STAGE 2 ARCHAEOLOGICAL ASSESSMENT (PIF P348-0039-2018; Wood 2018)
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DATUM:	NAD83	PROJECTION:	UTM Zone 17	PROJECT No:	SWW181149.3000
REV No:	1			FIGURE No:	5C

0 35 105 175m
SCALE 1:3500

0 35 105 175m
SCALE 1:3500