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FREELANCE ARCHAEOLOGIST & CONSULTANT**

A PRE-DETERMINATION ARCHAEOLOGICAL FIELD EVALUATION  
ON LAND TO THE REAR OF 39-51, HAWTHORN ROAD,  
CHERRY WILLINGHAM, LINCOLNSHIRE.

**National Grid Reference: TF 0195 7317  
Site Code: HRCW19  
Accession No: LCNCC: 2019.1**

PREPARED FOR MR. RICHARD BELL AND MR. LEE FOERS

By

Neville Hall

January 2019

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## Summary

- *A pre-determination archaeological field evaluation comprising the mechanical excavation of three trial trenches under archaeological supervision prior to the proposed construction of six new residential dwellings with garages and associated access on land to the rear of 39-51, Hawthorn Road, Cherry Willingham, Lincolnshire was undertaken by Neville Hall and Maria Gale on the 21st-22nd of January 2019.*
- *The three archaeological trial trenches that were required for this pre-determination archaeological field assessment of the archaeological potential of this proposed development site were all excavated under archaeological supervision and to the agreed dimensions of 20.0m in length and to 1.60m in width.*
- *The first archaeological trial trench, which was positioned within the southern portion of the survey area, extended along the east-west orientated line of a modern trackway, and yielded negative results. The excavation of this first trench encountered a modern made ground horizon, which overly a natural horizon of silty clay. This deposit exhibited some evidence for both gleying and waterlogging. This deposit sequence was recorded within the first representative section.*
- *The remaining two archaeological trial trenches, which were located to the north and within the rear area of the proposed development site were both equally negative in terms of their results. The mechanical excavation of both of these trenches revealed very deep and substantial modern made ground horizons, which were the product of the dumping of much building waste material since the early 1980s within this rear area of the site. Both modern made ground horizons were found to extend to depths greater than safe maximum working depths of 1.20m below ground levels, at which point the mechanical excavation of both trenches ceased. This modern made ground deposit was recorded within the two remaining representative sections.*
- *No archaeological activity was identified on this site and there were no finds.*

## 1. Introduction

- 1.1 Neville Hall was commissioned by Mr. Richard Bell to undertake a pre-determination archaeological field evaluation prior to the proposed construction of six new residential dwellings with garages and associated access on land to the rear of 39-51, Hawthorn Road, Cherry Willingham, Lincolnshire, centred at National Grid Reference TF 0195 7317. The archaeological evaluation was carried out at the proposed development site on the 21st-22nd of January 2019.
- 1.2 The work was carried out in order to inform and to accompany a forthcoming planning application for planning consent for a proposed new residential development on this site. The requirement for the pre-determination archaeological assessment of this proposal site through trial trenching was requested by Mr. Ian Marshman of the Lincolnshire County Council Historic Environment Team, in his capacity as archaeological advisor on planning issues to West Lindsey District Council, the Local Planning Authority (LPA). This report documents the results of this pre-planning determination archaeological field evaluation, which was undertaken in accordance with a Specification prepared by Neville Hall. This document was submitted to and approved by Mr. Ian Marshman, prior to the commencement of the on-site works. This is in accordance with the principles established in *NPPF: Planning for the Historic Environment: Historic Environment Planning Practice Guide* (Department of Culture, Media and Sport, 2012), *Management of Archaeological Projects* (English Heritage, 1991) and *Standard and guidance for archaeological evaluations* (CHIfA, 2014).
- 1.3 Copies of the final report will be deposited with the clients, Mr. Ian Marshman, (on behalf of the local planning authority), the Planning Department of West Lindsey District Council, the Lincolnshire Heritage Environment Record (HER) and The Collection, Lincoln, along with an ordered project archive for long term storage and curation.

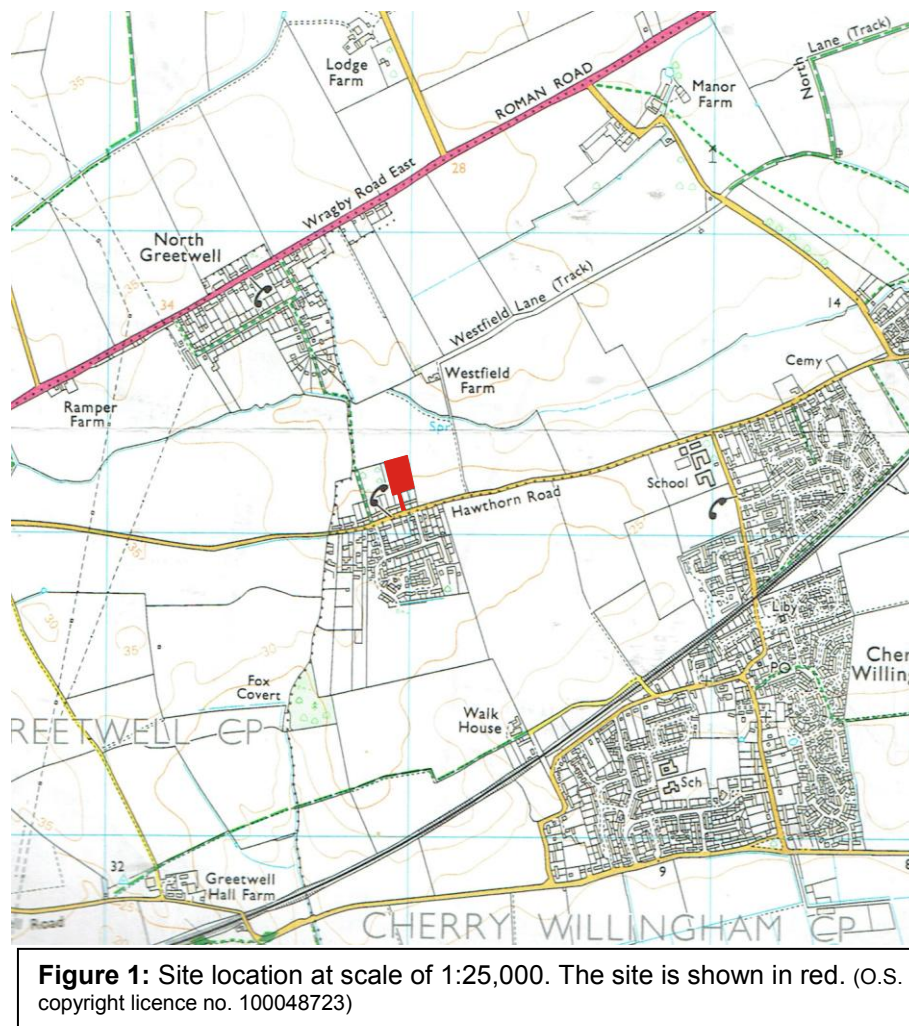
## 2. Site Location and Description

- 2.1 The proposed development site currently comprises a builders yard and other waste ground that is accessed off a northbound lane, that is in turn located off the northern frontage of the Hawthorn Road. The proposed development site is also situated on land to the rear of a modern residential development, that is also located approximately 1km to the west and north-west of the village of Cherry Willingham. The proposed development site is located within the modern civil parish of Cherry Willingham, administrative district of West Lindsey, County of Lincolnshire [Figures 1 and 2].
- 2.2 Topographically, the proposed development site is situated within a slightly undulating upland area to the north of the River Witham at a height of approximately 30m AOD. The development site is located on clayey over fine loamy soils of the Ragdale Series, which in turn overlie deposits of chalky tills and Great Oolitic limestones of the Middle Jurassic [BGS, 1973; Soil Survey, 1983].

## 3. Planning Background

- 3.1 It is understood that an application for planning consent for a proposed new residential development comprising six new residential dwellings with associated access and layout on land to the rear of 39-51, Hawthorn Road, Cherry Willingham, Lincolnshire will be submitted to West Lindsey District Council (the Local Planning Authority) [Figure 3].
- 3.2 It was considered that the proposal site lay within an area of high archaeological potential. Consequently, a request was made by Mr. Ian Marshman of the Lincolnshire

County Council Historic Environment Team that the proposal site be archaeologically assessed for this potential through trial trenching prior to the granting of planning consent for this aforementioned planning application. This report, which documents the results of this archaeological field assessment, will be submitted in order to inform and to be in support of the granting of planning permission for the proposed development on this site.

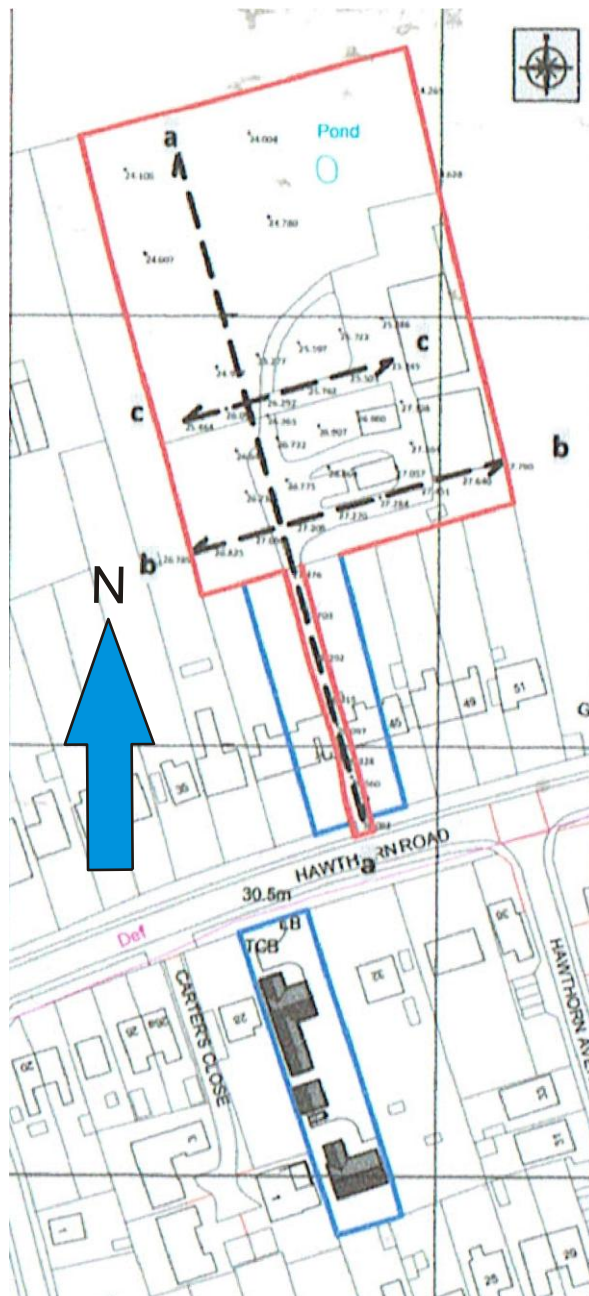


- 3.3 Consultations between the author and Mr. Ian Marshman of the Lincolnshire County Council Historic Environment Team established that the archaeological requirement for this site, would be the mechanical excavation under archaeological supervision of three archaeological trial trenches within the area of this proposed development site.
- 3.4 Consequently, a specification or a written scheme of works that included a trial trench plan layout proposal for this pre-determination archaeological evaluation was subsequently submitted to and approved by Mr. Ian Marshman of the Lincolnshire County Council Historic Environment Team (on behalf of the LPA) prior to the commencement of the on-site works.

#### 4. Aims and objectives of the Archaeological Evaluation

- 4.1 The general aim of the archaeological evaluation of this site was to ensure that sufficient information would be generated from the results of this work, which would enable the

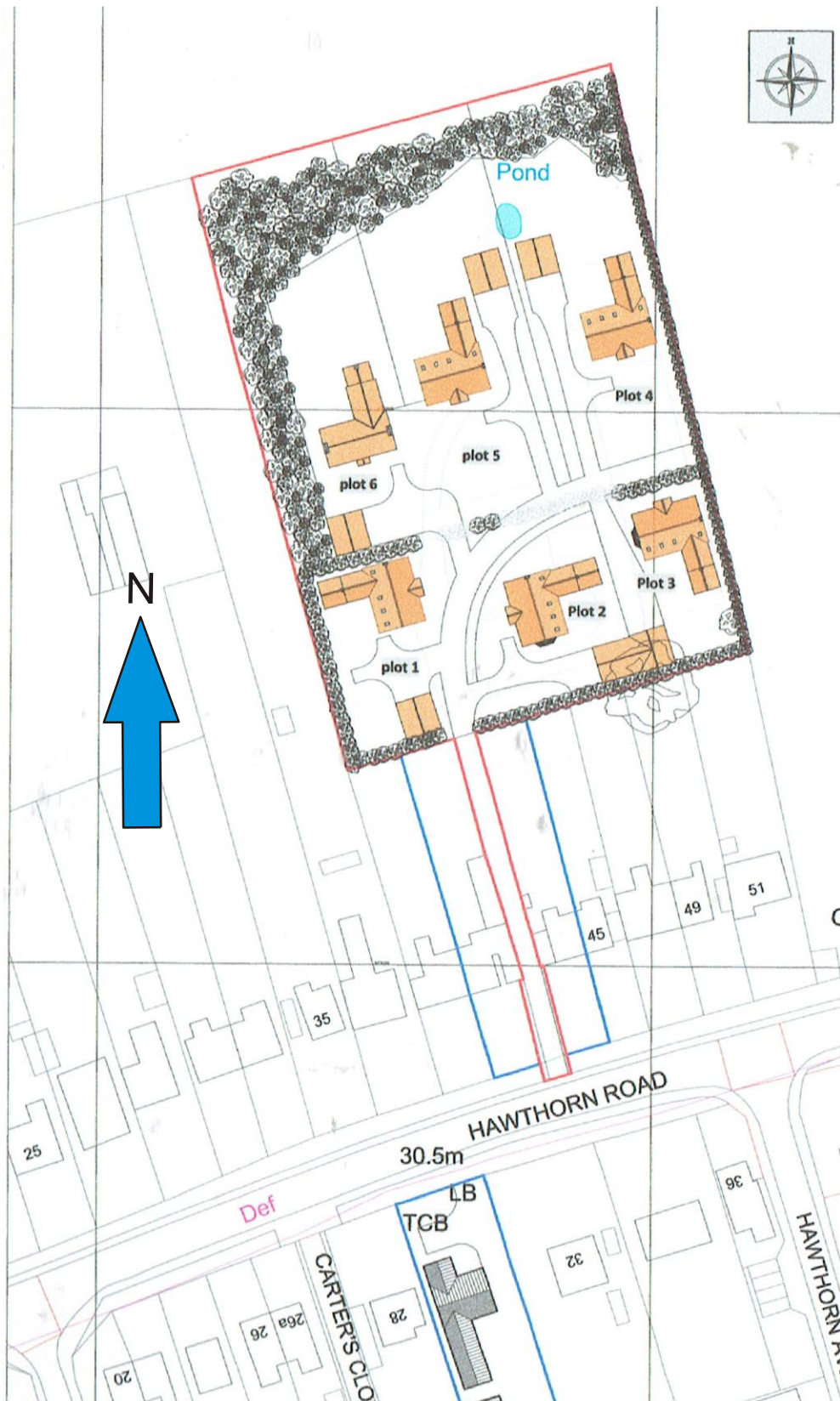
Lincolnshire County Council Historic Environment Team, (on behalf of West Lindsey District Council), to formulate a policy for the management of the archaeological resource (if any) on the site in the event that further archaeological work may be required, either pre- or post determination.



**Figure 2:** Site location at an original scale of 1:1,250, (not to scale), (extract from Architects plan)

4.2 The objectives of the project were to:

To establish the presence/absence of archaeological remains within the area of the development site.



**Figure 3:** Block plan showing the proposed layout of the development site at an original scale of 1:500, (not to scale), (extract from Architects plan)



To determine the type, extent, condition, nature, character, quality, function, and date, of any archaeological remains encountered.

To allow the preservation by record of archaeological deposits.

To gain information about heritage assets identified within the area of the proposed development site.

To mitigate potential threats.

To inform proposals for further archaeological investigations, if necessary.

To interpret the archaeology of the site within its local, regional and national context.

- 4.3 The proposed development site lies in an area of high archaeological potential. The cropmarks of Late Iron Age, Roman and undated settlement activity have been plotted from aerial photographic sources in the immediate vicinity of this site. The specific objectives of the archaeological evaluation were therefore be to record any archaeological features, structures, deposits or finds associated with this possible Late Iron Age or Roman and undated settlement activity within the context of local and regional archaeological research frameworks in terms of Late Iron Age and/or Romano-British settlement activity as detailed in *The Archaeology of the East Midlands, An Archaeological Resource Assessment and Research Agenda* (2006).

## **5. Archaeological and Historical Background**

- 5.1 Background research sources were consulted at the Lincolnshire Archives, the Lincolnshire County Council Historic Environment Record (HER) and the Lincoln Local Studies Library. A search of the Lincolnshire HER was conducted within the vicinity of the development site.
- 5.2 The proposed development site is located adjacent to extensive cropmark activity that is indicative of late Iron Age and/or Romano-British settlement activity in the fields to the immediate north, east and west of this site. This cropmark activity comprises a series of enclosures of probable Late Iron Age or Roman date that have been identified from aerial photographic plotting (HER 52832). A recent assessment of the site indicates that the enclosures may define the location of a possible Romano-British temple site.
- 5.3 Sherds of 3rd and 4th century AD Roman pottery along with a coin of Constantinopolis and a bronze ring also of Roman date were found in a garden at North Greetwell to the north of this site in 1969 (HER 52826).
- 5.4 A faint curvilinear shaped cropmark is situated in a field to the immediate north of this proposed development site. This may mark the site of an undated enclosure (HER 52963). This has also been identified from aerial photographic plotting.
- 5.5 Further evidence for undated cropmark activity is situated in fields to the west of this proposed development site. This consists of the cropmarks of undated enclosures and a trackway (HER 52831).
- 5.6 In 2000, a programme of archaeological assessment was undertaken to the south of Hawthorne Avenue (HER 54548, Site Code: CWHA00). An initial geophysical survey of the site had identified anomalies of possible archaeological potential. So this was followed by a second phase of archaeological trial trenching to investigate these possible archaeological anomalies. The evaluation identified two sections of a possible and

undated enclosure ditch. The fills of the ditch did not produce any dating evidence. Two further undated features, the first aligned from north-south and the second from north west-south east, may have been of natural origin. These comprised possible water courses, geological faults or the remnants of medieval ridge and furrow. Both of these features were thought to have been related and similarly did not yield any dating evidence.

- 5.7 Westfield Farm at Reepham is an extant 19th century farmstead (HER 58069). This is arranged around a regular courtyard in a 'U' plan. The farmhouse is detached from the main working complex. The farmstead is in an isolated location.
- 5.8 Copies of published Ordnance Survey maps of the area of the proposed development site were obtained from the Lincolnshire Archives and from the local studies collections of Lincoln Central Library. An extract from the First Edition 25 inch to one mile scale O.S. map of 1887 shows the proposed development site as occupying part of the north eastern portion of a large enclosure, that is in turn situated off the northern frontage of the Hawthorn Road. The northern and eastern boundaries of the proposed development site are already in place by this time.
- 5.9 An extract from the Second Edition 25 inch to one mile scale O.S. map of 1906 shows the same layout to the area of this proposed development site and that no change to this layout had taken place between 1887 and 1906.
- 5.10 An extract from the Provisional Edition six inch to one mile scale O.S. map of 1950 shows that by this time all of the present boundaries of this proposed development site were already in place. The site is featured as a small enclosure situated to the rear of a modern residential development that is located off the northern frontage of the Hawthorn Road.
- 5.11 This same site layout is repeated on the subsequent 1:10,560 scale O.S map of 1956.
- 5.12 An extract from the 1:2,500 scale O.S. map of 1970 features six outbuildings situated within the southern half of the area of this proposed development site. The current access off the northern frontage of the Hawthorn Road is also shown.
- 5.13 This same site layout is repeated on the subsequent 1:10,000 scale O.S map of 1989.
- 5.14 **Figure 2** shows the current layout of the proposed development site.

## 6. Methodology

- 6.1 This pre-determination archaeological field evaluation was undertaken on the proposed development site by Neville Hall and Maria Gale on the 21st-22nd of January 2019. This comprised the mechanical excavation under archaeological supervision of three archaeological trial trenches [designated as **Trenches 1-3**] within the area of the proposed development site according to the Specification and agreed archaeological trial trench layout proposal for this project [**Figure 4**]. The trenches were excavated by a 5-ton 360° mechanical excavator that was fitted with a 1.20m wide toothless bucket.
- 6.2 The trial trenches were surveyed in using hand tapes. All of the three archaeological trench trenches were excavated according to the agreed dimensions in terms of length, width and depths and to the agreed trial trench layout plan [**Figure 4**].
- 6.3 Where necessary, surfaces were hand cleaned for examination and recording and the identified deposit sequences were recorded on standard *pro-forma* context recording

sheets. Plans of the three trial trenches were compiled on site at a scale of 1:50 and are reproduced here at the reduced scale of 1:100 on **Figure 5**. A total of three sections of the identified deposit sequences [designated as **Representative Sections 1-3**] were also compiled on site at a scale of 1:10. These are reproduced in this report at this same scale also on **Figure 5**. A complimentary digital colour photographic record was also maintained, which are reproduced as **Plates 1-12, Appendix 1**. A list of contexts is presented in **Appendix 2**. All site levels were taken from a spot height of 30.50m on the Hawthorn Road.

- 6.4 A monitoring visit to the site was made by Mr. Ian Marshman of the Lincolnshire County Council Historic Environment Team on the 22nd of January 2019.
- 6.5 All work was carried out according to the approved Specification and to the Chartered Institute of Field Archaeologists (CHIFA) standards and guidance for archaeological evaluations.

## 7. Results [Figures 4-5; Appendix 1, Plates 1-12]

The proposed development site currently functions as a builders yard. **Plates 1-3** feature the respective sites of the subsequent archaeological trial trenches and were taken during the course of a preliminary site visit made on the 22nd of December 2018.

### 7.1 Trench 1

- 7.1.1 **Trench 1** was positioned at the southern end of the survey area and was orientated from approximately east-west. **Trench 1** was excavated to a length of 20.0m, to a width of 1.60m and to depths of between 0.62m-0.75m below ground levels [**Plates 4 and 6**]. The monitored mechanical excavation of this first trench extended through a modern made ground horizon (**101**) and into the upper levels of an underlying natural horizon (**102**), which extended to the base of this excavation. This trench deposit sequence was recorded within **Representative Section 1 [Plate 5]**.

- 7.1.2 No archaeological activity was identified within this trench and there were no finds.

### 7.2 Trench 2

- 7.2.1 **Trench 2** was situated within the western portion of the survey area and was aligned from approximately north-south. **Trench 2** was excavated to a length of 20.0m, to a width of 1.60m and to uniform depths of 1.20m below ground levels [**Plates 7 and 8**]. The monitored mechanical excavation of this second trench extended through a modern made ground horizon (**201**), which exclusively extended to the base of this excavation and to safe and maximum working depths of 1.20m below ground levels, at which point, the mechanical excavation of this second trench ceased. This modern made ground horizon (**201**) was recorded within **Representative Section 2 [Plate 9]**.

- 7.2.2 No archaeological activity was identified within this trench and there were no finds.

### 7.3 Trench 3

- 7.3.1 **Trench 3** was located to the east of **Trench 2** and was orientated from north west-south east. **Trench 3** was excavated to a length of 20.0m, to a width of 1.60m and to uniform depths of 1.20m below ground levels [**Plates 11 and 12**]. The monitored mechanical excavation of this third and final trench extended through a modern made ground horizon (**301**), which exclusively extended to the base of this excavation and to safe and maximum working depths of 1.20m below ground levels, at which point, the mechanical

excavation of this trench ceased. This modern made ground horizon (**301**) was recorded within **Representative Section 3 [Plate 10]**.

7.3.2 No archaeological activity was identified within this trench and there were no finds.

## **8. Discussion and Conclusions**

8.1 The three archaeological trial trenches that were required for this pre-determination archaeological field assessment of the archaeological potential of this proposed development site were all excavated under archaeological supervision and to the agreed dimensions of 20.0m in length and to 1.60m in width.

8.2 The first archaeological trial trench, which was positioned within the southern portion of the survey area, extended along the east-west orientated line of a modern trackway, and yielded negative results. The excavation of this first trench encountered a modern made ground horizon, which overly a natural horizon of silty clay. This deposit exhibited some evidence for both gleying and waterlogging. This deposit sequence was recorded within the first representative section.

8.3 The remaining two archaeological trial trenches, which were located to the north and within the rear area of the proposed development site were both equally negative in terms of their results. The mechanical excavation of both of these trenches revealed very deep and substantial modern made ground horizons, which were the product of the dumping of much building waste material since the early 1980s within this rear area of the site. Both modern made ground horizons were found to extend to depths greater than safe maximum working depths of 1.20m below ground levels, at which point the mechanical excavation of both trenches ceased. This modern made ground deposit was recorded within the two remaining representative sections.

8.4 No archaeological activity was identified on this site and there were no finds.

## **9. Effectiveness of Methodology and Confidence Rating**

9.1 The methodology chosen clearly demonstrated the absence of archaeological activity and of finds on this site; while providing sufficient time to record the deposit sequences observed. It is considered that the implemented methodology was sufficient to record both the absence of archaeological activity and finds and the nature of the deposit sequences present within the area of the development site with a high degree of confidence.

## **10. Acknowledgements**

10.1 Thanks are gratefully extended to Mr. Richard Bell and to Mr. Lee Foers for commissioning this work. Thanks are also extended to Mr. Ian Marshman of the Lincolnshire County Council Historic Environment Team and to the staff of the Lincolnshire Heritage Environment Record, the Lincoln Local Studies Library, and the Lincolnshire Archives for their kind assistance.

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Extract from the First Edition 25 inch to one mile scale O.S. map of 1887, map sheet no. Lincolnshire 46.6.

Extract from the Second Edition 25 inch to one mile scale O.S. map of 1906, map sheet no. Lincolnshire 46.6.

Extract from the Provisional Edition six inch to one mile scale O.S. map of 1950, map sheet no. Lincolnshire 46NW.

Extract from the 1:10,560 scale O.S. map of 1956, map sheet no. TF 19 NW.

Extract from the 1:2,500 scale O.S. map of 1975.

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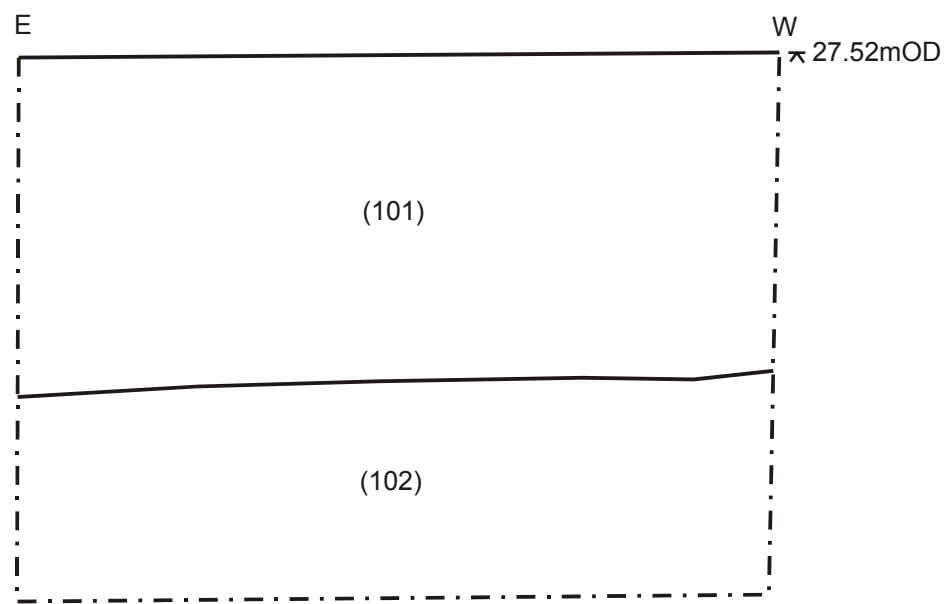
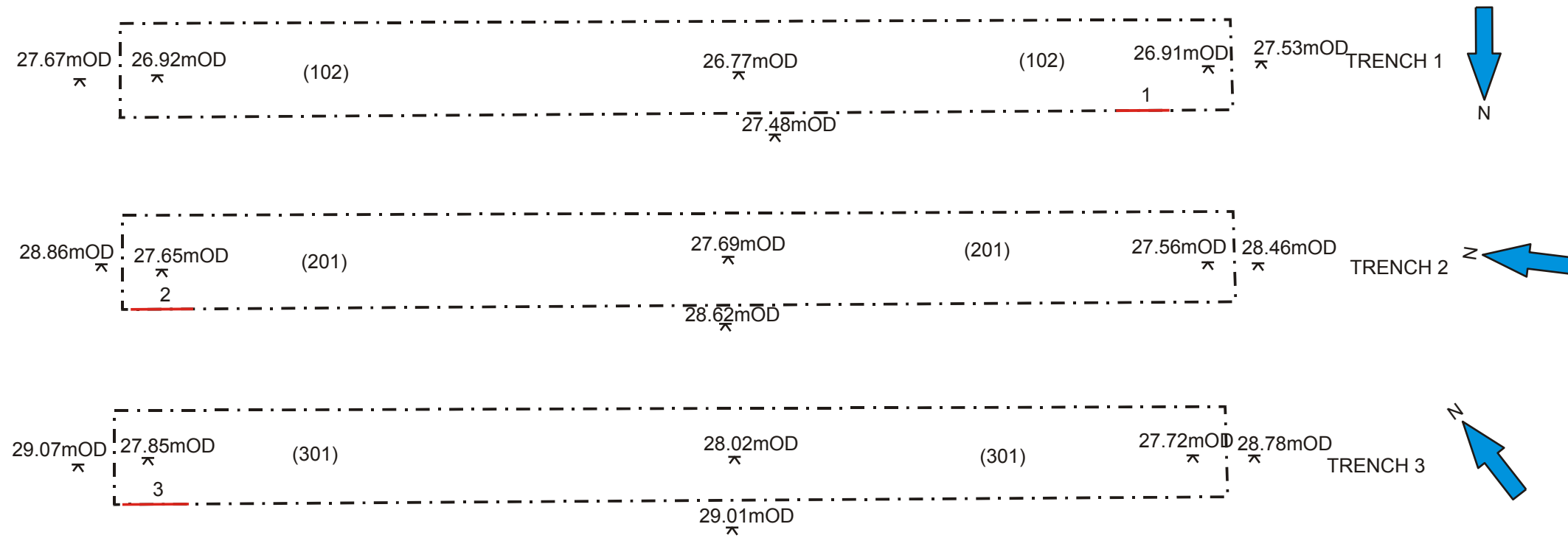
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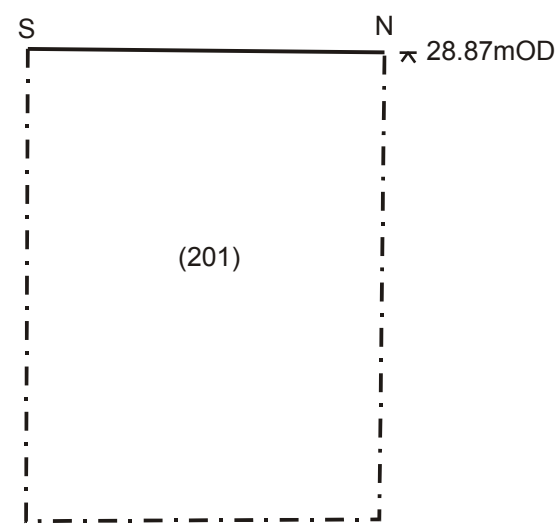
Soil Survey of England & Wales, (1983), *Soils of Eastern England*, Sheet 4.



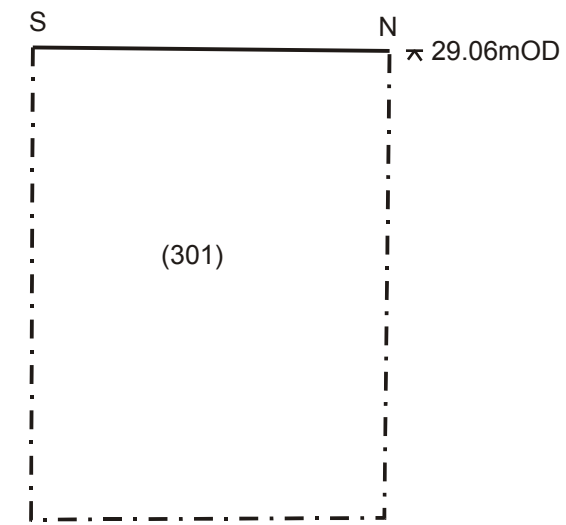
**Figure 4:** Plan showing the proposed and final layouts of the archaeological trial trenches at a scale of 1:1,250



Trench 1, Representative Section 1, South Facing Section, scale 1:10



Trench 2, Representative Section 2, East Facing Section, scale 1:20



Trench 3, Representative Section 3, East Facing Section, scale 1:20

Figure 5: Trenches 1-3 at a scale of 1:100 and Representative Sections 1-3 at scales of 1:10 and 1:20

**Appendix 1: Plates**



**Plate 1:** Pre-assessment, site of **Trench 3**, from the south-west



**Plate 2:** Pre-assessment, site of **Trench 2**, from the south



**Plate 3:** Pre-assessment, site of **Trench 1**, from the west



**Plate 4:** **Trench 1**, from the east



**Plate 5:** **Trench 1**, **Representative Section 1**, from the south





**Plate 6: Trench 1, from the west**



**Plate 8: Trench 2, from the north**



**Plate 7: Trench 2, from the south**



**Plate 9: Trench 2, Representative Section 2, from the east**



**Plate 10: Trench 3, Representative Section 3, from the east**



**Plate 11: Trench 3, from the south-east**



**Plate 12: Trench 3, from the north-west**

## Appendix 2: List of Contexts

### Trench 1

- 101** Modern made ground horizon. Very heterogeneous and complex deposit composed of redeposited limestone brash, small-large flint nodules and concrete fragments, small-large brick fragments, layers of redeposited silty clay natural, plastic and wood fragments. Above (**102**). Recorded within **Representative Section 1**. Depth - 0.74m.
- 102** Natural horizon. Soft, light orange brown and light blue grey silty clay with no inclusions. Some evidence for gleying and also of darker blue grey waterlogging in places. Below (**101**). Recorded within **Representative Section 1**. Depth - >0.28m.

### Trench 2

- 201** Modern made ground horizon. Very heterogeneous and complex deposit within a matrix of a soft and friable, mid orange brown silty clay with small-large concrete, brick and breeze block fragments, polystyrene fragments, metal fragments and plastic bags, surmounted by a very thin topsoil. Recorded within **Representative Section 2**. Depth - >1.20m, extended to the base of the excavation of **Trench 2**.

### Trench 3

- 301** Modern made ground horizon. Very heterogeneous and complex deposit within a matrix of a soft and friable, mid orange brown silty clay with small-large concrete, brick and breeze block fragments, polystyrene fragments, metal fragments, wire and plastic bags, surmounted by a very thin topsoil. Recorded within **Representative Section 3**. Depth - >1.20m, extended to the base of the excavation of **Trench 3**.

### **Appendix 3: The Archive**

The archive consists of:

Four context records

Plans of the three archaeological trial trenches at a scale of 1:50 and three section drawings at a scale of 1:20 on one sheet of drawing film

One context register

One photographic register

All records are currently held at:

38 Finningley Road

Lincoln

LN6 0UP

And will be deposited in due course at:

The Collection

Danes Terrace

Lincoln

LN2 1LP

Under the accession number **LCNCC: 2019.1** and the site code **HRCW19**

## Appendix 4: Photographic Register



**Appendix 5: OASIS Summary Sheet**

# OASIS DATA COLLECTION FORM: England

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## Land to the Rear of 39-51, Hawthorn Road, Cherry Willingham, Lincolnshire - Neville Hall MIFA

OASIS ID - nevilleh1-341653

### Versions

View	Version	Completed by	Email	Date
View 1	1	Neville Hall	nhallarchaeologicalservices@gmail.com	1 February 2019

### Completed sections in current version

Details	Location	Creators	Archive	Publications
Yes	Yes	Yes	Yes	1/1

### Validated sections in current version

Details	Location	Creators	Archive	Publications
No	No	No	No	0/1

### File submission and form progress

Grey literature report submitted?	Yes	Grey literature report filename/s	Sent by other means
Boundary file submitted?	No	Boundary filename	
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## **Appendix 6: Specification for Archaeological Monitoring**

**Specification for a Pre-Determination  
Archaeological Evaluation on Land to the Rear  
of 39-51, Hawthorn Road,  
Cherry Willingham, Lincolnshire.**

**Prepared for Mr. Richard Bell**

**National Grid Reference: TF 0195 7317**

**Site Code: HRCW19**

**Accession No: LCNCC: 2019.1**

**Prepared by Neville Hall, Freelance Field Archaeologist  
& Consultant**

**January 2019**

## **S Non-technical summary**

S1 *This document comprises a specification or a written scheme of investigation for a pre-determination archaeological field evaluation of land to the rear of 39-51, Hawthorn Road, Cherry Willingham, Lincolnshire.*

S2 *The proposed development site lies in an area of high archaeological potential. The cropmarks of Late Iron Age, Roman and undated settlement activity have been plotted from aerial photographic sources in the immediate vicinity of this site. The specific objectives of the archaeological evaluation will therefore be to record any archaeological features, structures, deposits or finds associated with this possible Late Iron Age or Roman and undated settlement activity.*

S3 *On the completion of the evaluation, a report will be produced detailing the results of the archaeological investigation. The report will consist of a narrative supported by illustrations and photographs.*

## **1. Introduction**

1.1 This document comprises a specification or a written scheme of investigation for a pre-determination archaeological field evaluation of land to the rear of 39-51, Hawthorn Road, Cherry Willingham, Lincolnshire. The site is located at National Grid Reference TF 0195 7317.

## **2. Site location [Figures 1 and 2]**

2.1 The proposed development site currently comprises a builders yard and other waste ground that is accessed off a northbound lane, that is in turn located off the northern frontage of the Hawthorn Road. The proposed development site is also situated on land to the rear of a modern residential development, that is also located approximately 1km to the west and north-west of the village of Cherry Willingham. The proposed development site is located within the modern civil parish of Cherry Willingham, administrative district of West Lindsey, County of Lincolnshire.

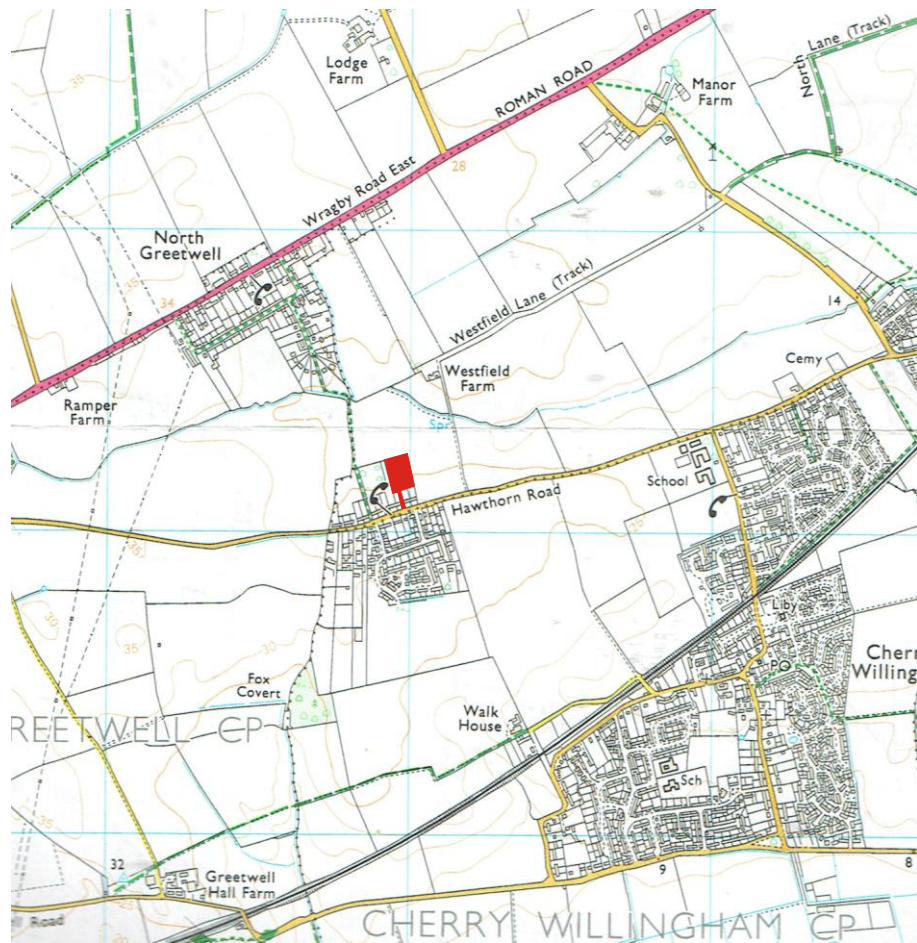
## **3. Planning background**

3.1 An application for outline planning consent for the proposed construction of six new residential dwellings with associated access and layout on land to the rear of 39-51, Hawthorn Road, Cherry Willingham, Lincolnshire will be submitted to West Lindsey District Council (the Local Planning Authority) in due course [Figure 3].

3.2 However, as this proposed development may be situated within an area of high archaeological potential, a requirement has been made by the Lincolnshire County Council Historic Environment Team (on behalf of the Local Planning Authority) for further supporting information to be made available by the applicants in order to inform and determine the granting of outline planning consent for this proposed development. This requirement will comprise a programme of archaeological site assessment of the archaeological potential of the proposal site through trial trenching.

## **4. Soils and Topography**

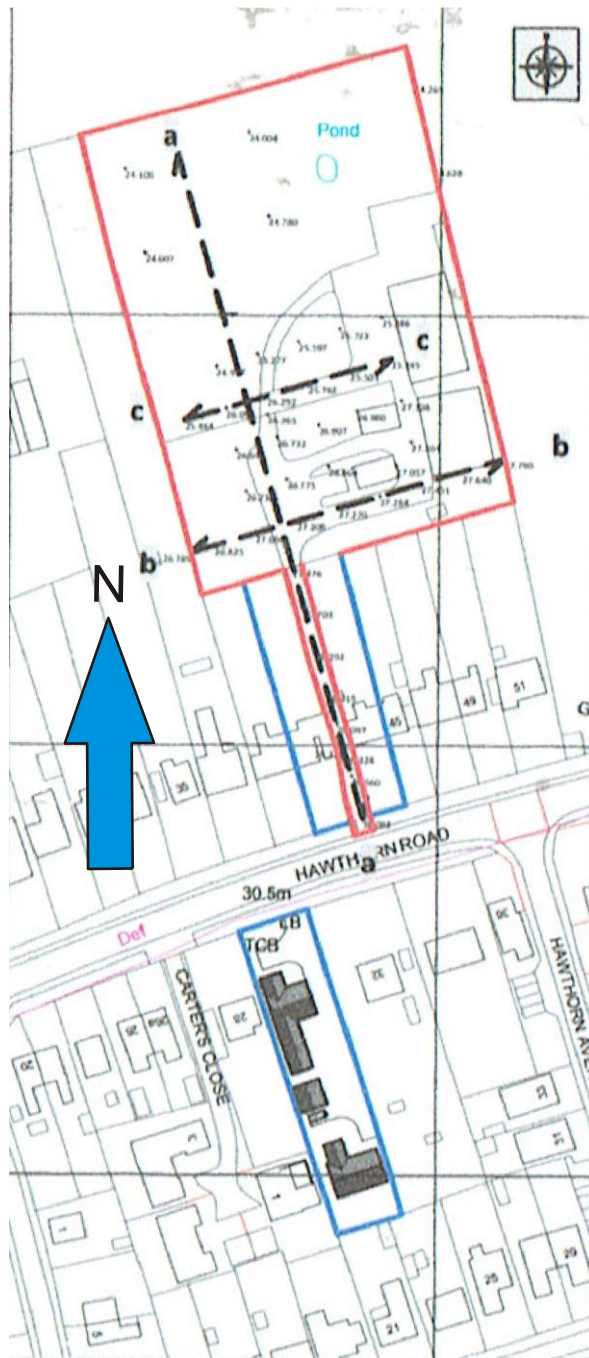
4.1 Topographically, the proposed development site is situated within a slightly undulating upland area to the north of the River Witham at a height of approximately 30mAOD. The development site is located on clayey over fine loamy soils of the Ragdale Series, which in turn overlie deposits of chalky tills and Great Oolitic limestones of the Middle Jurassic.



**Figure 1:** Site location at scale of 1:25,000. The site is shown in red. (O.S. copyright licence no. 100048723)

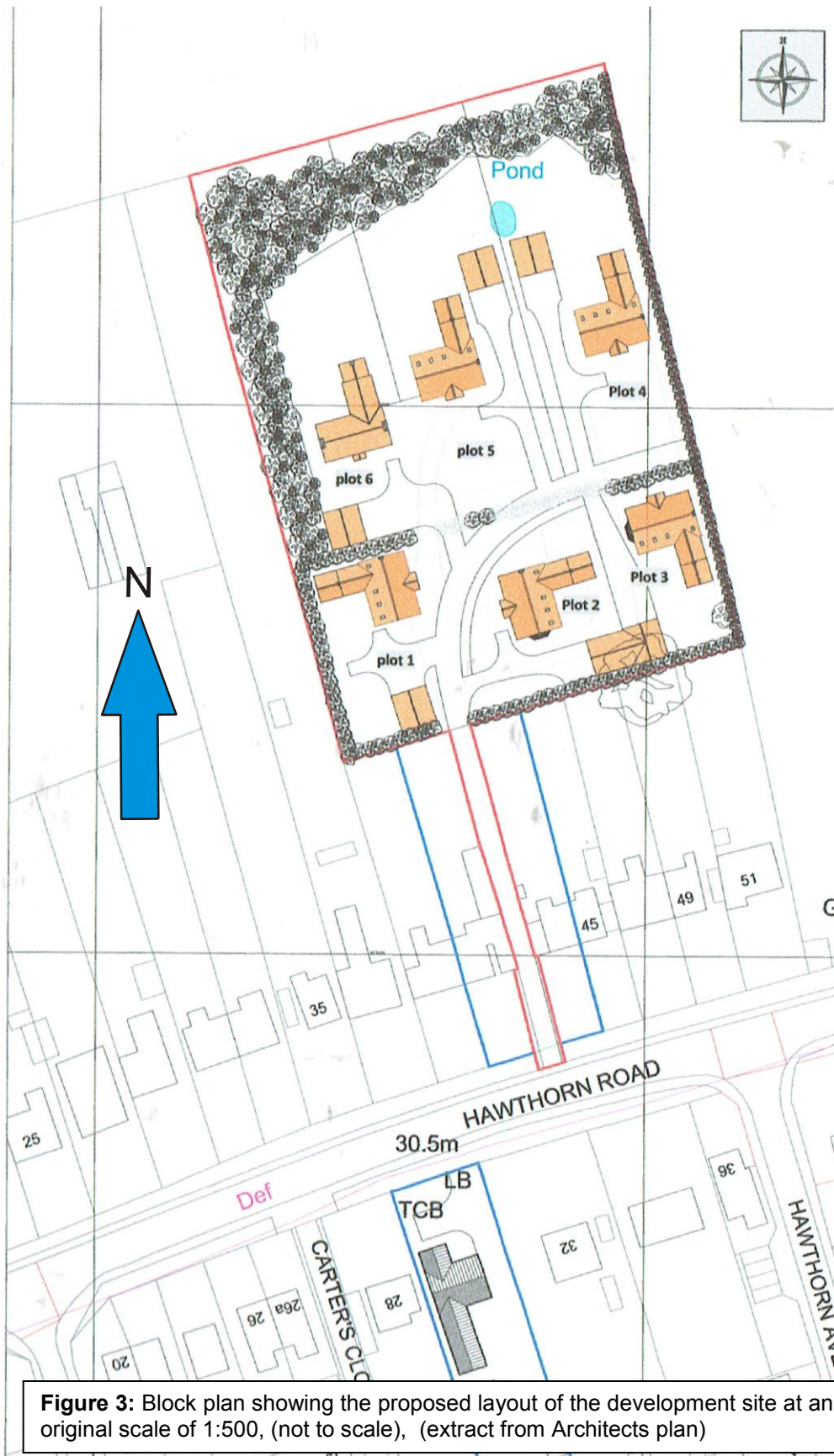
## 5. Historical and Archaeological Background

- 5.1 Background research sources were consulted at the Lincolnshire Archives, the Lincolnshire County Council Historic Environment Record (HER) and the Lincoln Local Studies Library. A search of the Lincolnshire HER was conducted within the vicinity of the development site.
- 5.2 The proposed development site is located adjacent to extensive cropmark activity that is indicative of late Iron Age and/or Romano-British settlement activity in the fields to the immediate north, east and west of this site. This cropmark activity comprises a series of enclosures of probable Late Iron Age or Roman date that have been identified from aerial photographic plotting (HER 52832). A recent assessment of the site indicates that the enclosures may define the location of a possible Romano-British temple site.
- 5.3 Sherds of 3rd and 4th century AD Roman pottery along with a coin of Constantinopolis and a bronze ring also of Roman date were found in a garden at North Greetwell to the north of this site in 1969 (HER 52826).
- 5.4 A faint curvilinear shaped cropmark is situated in a field to the immediate north of this proposed development site. This may mark the site of an undated enclosure (HER 52963). This has also been identified from aerial photographic plotting.



**Figure 2:** Site location at an original scale of 1:1,250, (not to scale), (extract from Architects plan)

- 5.5 Further evidence for undated cropmark activity is situated in fields to the west of this proposed development site. This consists of the cropmarks of undated enclosures and a trackway (HER 52831).



**Figure 3:** Block plan showing the proposed layout of the development site at an original scale of 1:500, (not to scale), (extract from Architects plan)

- 5.6 In 2000, a programme of archaeological assessment was undertaken to the south of Hawthorne Avenue (HER 54548, Site Code: CWHA00). An initial geophysical survey of the site had identified anomalies of possible archaeological potential. So this was followed by a second phase of archaeological trial trenching to investigate these possible archaeological anomalies. The evaluation identified two sections of a possible and undated enclosure ditch. The fills of the ditch did not produce any dating evidence. Two further undated features, the first aligned from north-south and the second from north west-south east, may have been of natural origin. These comprised possible water courses, geological faults or the remnants of medieval ridge and furrow. Both of these features were thought to have been related and similarly did not yield any dating evidence.
- 5.7 Westfield Farm at Reepham is an extant 19th century farmstead (HER 58069). This is arranged around a regular courtyard in a 'U' plan. The farmhouse is detached from the main working complex. The farmstead is in an isolated location.
- 5.8 Copies of published Ordnance Survey maps of the area of the proposed development site were obtained from the Lincolnshire Archives and from the local studies collections of Lincoln Central Library. An extract from the First Edition 25 inch to one mile scale O.S. map of 1887 shows the proposed development site as occupying part of the north eastern portion of a large enclosure, that is in turn situated off the northern frontage of the Hawthorn Road. The northern and eastern boundaries of the proposed development site are already in place by this time.
- 5.9 An extract from the Second Edition 25 inch to one mile scale O.S. map of 1906 shows the same layout to the area of this proposed development site and that no change to this layout had taken place between 1887 and 1906.
- 5.10 An extract from the Provisional Edition six inch to one mile scale O.S. map of 1950 shows that by this time all of the present boundaries of this proposed development site were already in place. The site is featured as a small enclosure situated to the rear of a modern residential development that is located off the northern frontage of the Hawthorn Road.
- 5.11 This same site layout is repeated on the subsequent 1:10,560 scale O.S map of 1956.
- 5.12 An extract from the 1:2,500 scale O.S. map of 1970 features six outbuildings situated within the southern half of the area of this proposed development site. The current access off the northern frontage of the Hawthorn Road is also shown.
- 5.13 This same site layout is repeated on the subsequent 1:10,000 scale O.S map of 1989.
- 5.14 **Figure 2** shows the current layout of the proposed development site.

## **6. Aims and objectives of the project**

- 6.1 The general aim of the archaeological evaluation of this site will be to ensure that sufficient information is generated from the results of this work, which will enable the Lincolnshire County Council Historic Environment Team, (on behalf of West Lindsey District Council), to formulate a policy for the management of the archaeological resource (if any) on the site in the event that further archaeological work may be required, either pre- or post determination.
- 6.2 The objectives of the project will be to:

To establish the presence/absence of archaeological remains within the area of the development site.

To determine the type, extent, condition, nature, character, quality, function, and date, of any archaeological remains encountered.

To allow the preservation by record of archaeological deposits.

To gain information about heritage assets identified within the area of the proposed development site.

To mitigate potential threats.

To inform proposals for further archaeological investigations, if necessary.

To interpret the archaeology of the site within its local, regional and national context.

- 6.3 The proposed development site lies in an area of high archaeological potential. The cropmarks of Late Iron Age, Roman and undated settlement activity have been plotted from aerial photographic sources in the immediate vicinity of this site. The specific objectives of the archaeological evaluation will therefore be to record any archaeological features, structures, deposits or finds associated with this possible Late Iron Age or Roman and undated settlement activity within the context of local and regional archaeological research frameworks in terms of Late Iron Age and/or Romano-British settlement activity as detailed in *The Archaeology of the East Midlands, An Archaeological Resource Assessment and Research Agenda* (2006).

## **7. Methodology [Figure 4]**

- 7.1 Prior to the commencement of the archaeological evaluation, the proposed layout of the trial trenching shall be submitted to and agreed with the Lincolnshire County Council Historic Environment Team (on behalf of the Local Planning Authority) to ensure that this proposed scheme of archaeological works fulfils their requirements.
- 7.2 The trial trenching will consist of the excavation of three trenches; each measuring 20.0m in length by 1.60m in width. These trenches will all be positioned within the build footprints of the proposed new residential dwellings. The trenches will be excavated to a maximum safe working depth of up to 1.20m.
- 7.3 All work will be carried out according to the Chartered Institute of Field Archaeologists (CHIFA) standards, and will be under the management of a Member of the CHIFA (CHMIFA).
- 7.4 All work will be undertaken following all statutory Health and Safety requirements and legislation in operation at the time of the investigation including the *Health and Safety at Work Act* (1974). Due consideration shall be given to keeping the assessment site secure at all times particularly if the field assessment is to continue overnight into a second day.
- 7.5 A Risk Assessment will be prepared for the site.
- 7.6 Any and all artefacts found during the investigation and thought to come under the provisions of the *Treasure Act* (1996), will be removed from the site to a secure location, and will be promptly reported to the appropriate coroner's office. The local Finds Liaison Officer will also be contacted in the first instance for advice.
- 7.7 The excavation of the archaeological features and/or deposits exposed will be undertaken as far as is required to determine their date, sequence, density and nature.



The investigation will also determine, as far as is reasonably practicable, the level of the natural and undisturbed subsoil deposits to ensure that the depth of the archaeological sequence present on the site is established.

- 7.8 The removal of the topsoil and/or of any other overburden will be undertaken by a tracked JCB or 360° mechanical excavator of sufficient power using a toothless ditching bucket. This will be carried out under constant archaeological supervision. Following the removal of topsoil and/or other overburden, the nature of the exposed and underlying deposits will be assessed by hand excavation. The trenches will then be cleaned by hand to enable the identification and analysis of any archaeological features and/or deposits exposed.
- 7.9 The spoil generated during the investigations will be mounded at a minimum distance of 1.0m from the edges of each trench with the topsoil being retained separately from other excavated material for subsequent backfilling.
- 7.11 Archaeological excavation may sometimes require the use of manual work by mattock and shovel, or by the occasional further use of a mechanical excavator. This will only be employed to remove homogenous and/or non archaeological layers.
- 7.12 The hand excavation of any exposed archaeological features and/or deposits will be undertaken to determine their date, form and function etc. This work will consist of the half sectioning of discrete individual archaeological features, the hand excavation of at least 10% by length of discrete linear features and the sectioning of discrete individual archaeological layers as required. Should archaeological features be located, which are deemed to be worthy of preservation *in situ*, then hand excavation will be limited to the absolute minimum necessary to interpret the form, function, date etc. of the features.
- 7.13 All archaeological features and/or deposits will be recorded on *pro-forma* context recording sheets.
- 7.14 All archaeological features and/or deposits and the trial trenches themselves will be drawn at a scale of 1:20, and sections (including representative sections of deposit sequences within each trench) at a scale of 1:10.
- 7.15 Throughout the investigations, a digital photographic record will be maintained, and will comprise an overview of the site prior to work starting and during as well as after completion of the work, and will include any excavated features, sections and other relevant details that aid interpretation.
- 7.16 All archaeological features and/or deposits, as well as sections will be levelled in, in relation to a Temporary Site Benchmark (TBM), which will be turned to be surveyed in from a nearby Ordnance Survey benchmark. The site grid will be tied into the National Grid.
- 7.17 The precise location of each trial trench will be measured in using hand tapes.
- 7.18 Should human remains be encountered, they will be left *in situ*, and will only be excavated if absolutely necessary. Proper respect will be accorded to these remains, which will be cleaned to allow positive identification. Should removal be required, the appropriate Department for Constitutional Affairs Licence will be obtained prior to the removal of the remains. In addition, any remains will be reported to the local Environmental Health Department, coroner and the police will be informed, where appropriate.
- 7.19 Any finds recovered will be bagged and labelled according to the individual context from which they were recovered for later washing and further analysis. All relevant finds will be ordered into an archive. Most modern material will not be retained, although notes will be

made of the appropriate context. An appropriate sample of materials such as ceramic building materials will be made.

- 7.20 All finds shall be exposed, lifted, cleaned, conserved, marked, bagged and boxed in accordance with the United Kingdom Institute for Conservation *First Aid for Finds* (1998).
- 7.21 Environmental sampling will be undertaken (where appropriate) of the fills of relevant archaeological features and/or significant archaeological deposits. Sample sizes of not less than 40 litres will be taken from each fill/deposit or a 100% sample from smaller features.
- 7.22 If appropriate, during the investigation, specialist advice will be obtained from an environmental archaeologist, who will prepare a report detailing the nature of the environmental material present on the site and its potential for additional analysis should further stages of archaeological work be required. The results of this specialist assessment will be incorporated into the final evaluation report. A site visit by the nominated environmental specialist (Andy Peachey) may be required. Where appropriate, further advice may be sought from the English Heritage Regional Scientific Advisor.
- 7.23 The fieldwork will be undertaken by Neville Hall. Additional personnel may be appointed if required.

## **8. Post-fieldwork methodology**

- 8.1 On the completion of the fieldwork, all of the written, drawn and photographic records produced by the archaeological evaluation will be checked, ordered, labelled (where appropriate) and catalogued to compile a distinctive site archive, whose integrity shall be maintained. A stratigraphical matrix of the archaeological features and/or deposits present on the site will be compiled.
- 8.2 All finds recovered during the fieldwork will be washed, marked and packaged according to the individual context from which they were recovered. They will also be ordered into (and form part of) the site archive. An assessment of significant finds will be made in light of general site information. Any finds requiring specialist treatment and/or conservation will be sent to the Conservation Laboratory at The Collection, Lincoln, and in consultation with the relevant curator.
- 8.3 The site archive will be examined to enable the determination of various phases of activity on the site (if appropriate).
- 8.4 Relevant finds will be sent to specialists for identification and dating.

## **9. Monitoring arrangements**

- 9.1 Provision will be made for the Lincolnshire County Council Historic Environment Team (on behalf of West Lindsey District Council, the Local Planning Authority) to monitor the works during the fieldwork stage and any other aspect of the archaeological project as required including the post fieldwork analysis and report preparation stages of the project.
- 9.2 A minimum notice period of fourteen days will be given to the Lincolnshire County Council Historic Environment Team of the start date of works on the site.
- 9.3 All aspects of the archaeological programme will be undertaken in accordance with this project specification.

- 9.4 Any variation to the project programme in terms of works or recording on or off site will be fully discussed and agreed with the Lincolnshire County Council Historic Environment Team.
- 9.5 Should the Lincolnshire County Council Historic Environment team require any additional investigation which is beyond the scope of this document, then the cost and duration of these supplementary works will be negotiated between the client and the contractor.
- 9.6 Arrangements will be made for the representative of the Lincolnshire County Council Historic Environment Team for access to the site to undertake monitoring visits, and such visits will be accounted for in the final report preparation.
- 9.7 The Lincolnshire County Council Historic Environment Team shall be kept fully informed of any unexpected or unforeseen discoveries made during the course of the archaeological investigations.

## **10. Archive preparation and deposition**

- 10.1 The documentation and records generated by the archaeological evaluation including all written records, drawings, photographic images and the project report will be sorted and ordered in the format acceptable to The Collection, Lincoln, and to the standards and requirements as laid out in their *Conditions for the Acceptance of Project Archives*.
- 10.2 The archive will be deposited at The Collection, Lincoln.
- 10.3 A unique accession number will be obtained from The Collection for the site archive.
- 10.4 It is anticipated that the preparation of the project archive for deposition will take one working day.
- 10.5 It is anticipated that the project archive will be deposited with The Collection, Lincoln by October 2019.

## **11. Reporting procedures**

- 11.1 A report detailing the findings of the archaeological evaluation will be completed within two months after the finalisation of the fieldwork. Any delays will be related to the relevant authorities.
- 11.2 It is anticipated that the report preparation will take 1-3 working days to compile.
- 11.3 The report will consist of:

A title page with project name and location, national grid reference, planning reference, site code, accession number, client name, author and date;

A contents page listing report sections, illustrations and appendices;

A non-technical summary of the results of the evaluation;

An introduction, site description and location;

Planning background to the project;

A section on the archaeological and historical background to the project;

A description of the methodology used in the project;

A section describing the results of the evaluation;

A section on the discussion and results of the project including a consideration of the archaeological potential of the assessment site and its environs and a consideration of these findings of the project in a local and regional context;

A consideration of the effectiveness of the project methodology and a confidence rating of the results;

A full bibliography of all published references and other references consulted;

Illustrations including site location plans, plans of the areas which have been investigated including the position of the trial trenches, individual trench plans, plans of all archaeological features and sections thereof (including trench representative sections) with levels and horizontal and vertical scales, as appropriate; and

Appendices comprising appropriate photographs of the site including pre-site works, working shots and of specific and significant archaeological features and representative sections, a list of contexts and of any artefacts recovered from them, a summary of archive contents, their location and the date of deposition, a photographic register and any specialist reports on finds from the site and a copy of the approved specification.

An electronic copy of the report will be deposited with the OASIS project (On-line Access to the Index of Archaeological Investigations) <http://ads.ahds.ac.uk/project/oasis/index.cfm>.

## **12. Publication and dissemination**

- 12.1 Copies of the final report will be deposited with the clients, the local curator (on behalf of the local planning authority), West Lindsey District Council and with the Lincolnshire Heritage Environment Record (including a digital copy in a .pdf format).
- 12.2 A note will be placed in 'Lincolnshire History and Archaeology' describing the results.
- 12.3 The deposition of the site archive will be in accordance with guidelines outlined in the Lincolnshire Archaeological Handbook (LCC, 2018).
- 12.4 Should the results of the archaeological investigation merit it, a note will also be placed in appropriate national journals e.g. *Medieval Archaeology*.

## **13. Other factors (including contingency)**

- 13.1 In the event of the discovery of any unexpected remains of archaeological importance, or of any changed circumstances, it is the responsibility of the archaeological contractor to inform the Lincolnshire County Council Historic Environment Team.
- 13.2 Where important archaeological remains are discovered and deemed to merit further investigation, additional financial resources may be required to provide an appropriate level of investigation, recording and analysis.
- 13.3 Any additional financial contingency requirement for additional fieldwork or post-excavation analysis outside the scope of the proposed scheme of works will only be activated following full consultation with the Lincolnshire County Council Historic Environment Team and the client.

## **14. Variations to the proposed scheme**

- 14.1 Variations to the proposed scheme will only be made following written confirmation with the archaeological curator.

## **15. Resources**

- 15.1 The fieldwork is expected to take between 1-2 working days, and will be undertaken by Neville Hall using standard archaeological field techniques.

- 15.2 Post-excavation analysis will be undertaken by Neville Hall and is expected to take up to two working days. Where available specialist analysis will be carried out by:-

Jane Young	Anglo-Saxon, Medieval and Post-medieval Ceramics
Ian Rowlandson	Iron Age and Roman Ceramics
Archaeological Solutions Ltd (Andy Peachey)	Environmental
Carol Allen	Neolithic and Bronze Age
Malin Holst	Osteoarchaeology
Jane Cowgill	Metallurgy

- 15.2 Small finds requiring conservation will be conserved by the City and County Museum Laboratory.

- 15.3 Recognised specialists will be sought in the event that other data are retrieved in the course of the investigations.

## **16. Insurance statement**

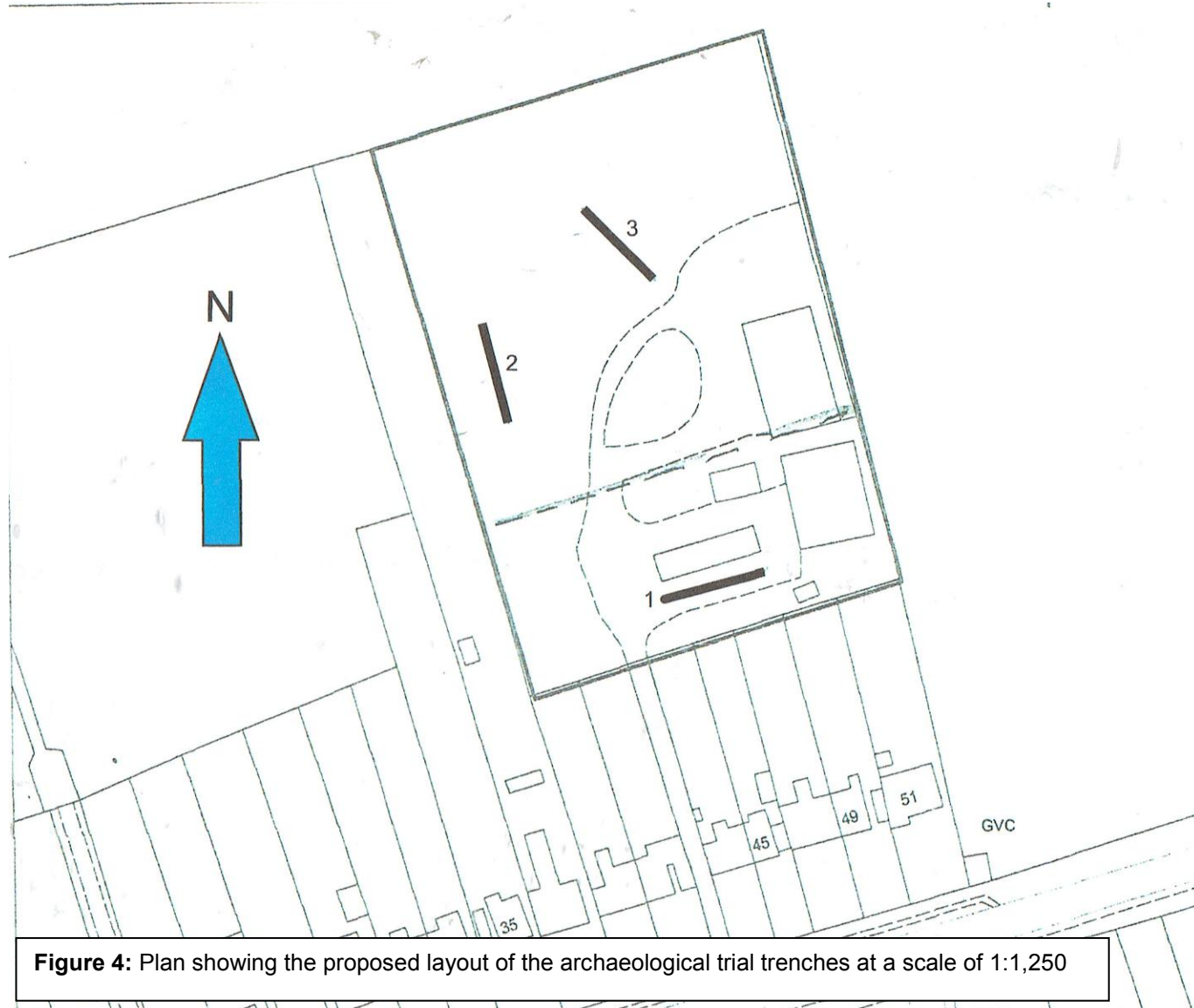
- 16.1 Public indemnity of £2,000,000 and private indemnity insurance of £200,000 with Towergate Insurance.

## **17. Copyright**

- 17.1 Copyright will remain that of the author. Licence will be given to the client to present any reports, copyright of the author, to the planning authority in good faith of satisfactory settlement of account.

## **18. Ownership**

- 18.1 It will be asked of the client, at the outset, that the ownership of any portable objects discovered in the course of the evaluation be donated along with the archive.



**Figure 4:** Plan showing the proposed layout of the archaeological trial trenches at a scale of 1:1,250