105 NORTH STREET, CROWLAND, LINCOLNSHIRE

(NGR: 523890 310425)

MUSEUM ACCESSION NUMBER: (LCNCC 2023.175)

WRITTEN SCHEME OF INVESTIGATION FOR ARCHAEOLOGICAL MONITORING

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1 INTRODUCTION

1.1 This document sets out details of the Written Scheme of Investigation (WSI) for archaeological monitoring at 105 North Street, Crownland, Lincolnshire (NGR: 523890 310425) (Appendix 1 and 2) in accordance with the *Standard and Guidance for Archaeological Monitoring* issued by the Chartered Institute for Archaeologists 2020, as well as discussions with Matthew Adams, Historic Environment Advisor at Lincolnshire County Council. The WSI complies with the principles of the NPPF (National Planning Policy Framework 2021).

1.2 Independent Archaeology Consultants is an archaeological consultancy company based in Peterborough, Cambridgeshire. The company subscribes to the *Code of Conduct, the Standard and Guidance for Archaeological Monitoring* (CIfA 2020) and *Archaeological Handbook for Lincolnshire*. Ed. Louise Jennings 2019. All relevant CIfA Codes of Practice will be adhered to throughout the course of the project.

2 PROJECT BACKGROUND

2.1 Planning Permission has been granted (H02-0728-21) for a new development at 105 North Street, Crowland, Lincolnshire. The proposed development entails the convertion of No. 105 North Street into 2 dwellings together with the addition of a new dwelling to the rear. The development site is located in the central parts of Crowland.

2.2 The development encloses an area of some 1200m^2 at an average height of ca. 4m AOD. The geology of the site consists of Sand and Gravel over Oxford Clay Formation-Mudstone (British Geological Survey 2023). The site is surrounded by existing dwellings in north, east and south, while North Street is located in the west.

2.3 The site is located within an area of high archaeological potential, as defined by Lincolnshire County Council HER. Therefore, archaeological monitoring is required during the construction works within the site. These conditions were mentioned in the planning permission for the site:

2.4 *"3. No development shall take place until a written scheme of archaeological investigation has been submitted to and approved in writing by the Local Planning Authority. This scheme should include the following and should be in accordance with the archaeological brief supplied by the Lincolnshire County Council Historic Environment advisor on behalf of the Local Planning Authority."*

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1. An assessment of significance and proposed mitigation strategy (i.e. preservation by record, preservation in situ or a mix of these elements).

2. A methodology and timetable of site investigation and recording.

3. Provision for site analysis.

4. Provision for publication and dissemination of analysis and records.

5. Provision for archive deposition.

6. Nomination of a competent person/organisation to undertake the work.

7. The scheme to be in accordance with the Lincolnshire Archaeological Handbook. The archaeological site work shall only be undertaken in accordance with the approved written scheme.

Reason: To ensure the preparation and implementation of an appropriate scheme of archaeological mitigation in accordance with national guidance contained in Section 16 of the National Planning Policy Framework, 2021. This issue is integral to the development and therefore full details need to be finalised prior to the commencement of works. This Condition is imposed in accordance with Policy 29 of the South East Lincolnshire Local Plan, 2019.

2.5 *"4. The applicant shall notify the Lincolnshire County Council Historic Environment Department in writing of the intention to commence at least fourteen days before the start of archaeological work required in connection with Condition 3 above in order to facilitate adequate monitoring arrangements."*

Reason: To ensure satisfactory archaeological investigation and retrieval of archaeological finds in accordance with national guidance contained in Section 16 of the National Planning Policy Framework, 2021. This Condition is imposed in accordance with Policy 29 of the South East Lincolnshire Local Plan."

2.6 "*5. A copy of the final report required in connection with Condition 3 above shall be submitted within three months of the work being carried out to the Local Planning Authority and the Lincolnshire Historic Environment Record. The material and paper archive required as part of the written scheme of investigation shall be deposited with an appropriate archive in accordance with guidelines published in The Lincolnshire Archaeological Handbook."*

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Reason: To ensure satisfactory arrangements are made for the recording of possible archaeological remains in accordance with national guidance contained in Section 16 of the National Planning Policy Framework, 2021. This Condition is imposed in accordance with Policy 29 of the South East Lincolnshire Local Plan, 2019.

3 ARCHAEOLOGICAL BACKGROUND

3.1 There are about 100 entries in the local HER-record for Crowland, and for practical reasons it is not possible to comment on every single entry in this chapter of the WSI. For this reason only the closest and most important entries for the proposed development site are described below. The entries consists of both events and monuments.

Events

3.2 An archaeological watching brief was carried out in West Street, some 250m south of the proposed development site in the year 2000, but little of archaeological interest was being found (ELI1460).

3.3 Another watching brief was carried out at 16 Abbey Walk in 2014, some 350m southeast of the proposed development site, but no archaeological finds or features were encountered (ELI12338).

3.4 A site visit was carried out to 60 North Street in 2008, when photos were taken of the building. This site is located some 50m southwest of the proposed development site (ELI9090).

3.5 Dr Jackie Hall observed and recorded architectural stones from Crowland Abbey, which were later chosen for re-use in an extension to the vestry on the north side of the abbey church in 2006. The Abbey is located some 300m southeast of the proposed development site (ELI7049).

3.6 A site visit to 8-14 East Street was carried out in 2008, when photos were taken of the building. The site is located some 250m southeast of the proposed development site (ELI9078).

3.7 Another site visit was carried out to 6 West Street in 2008, when photos were taken of the building. The site is located some 300m south of the proposed development site (ELI9093).

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3.8 Casual find observations were made in Foreman Way in 2001. The site is located some 70m northeast of the proposed development site (ELI2078).

3.9 A watching brief was carried out in Kemp Street in 2005. No archaeological finds or features were uncovered. The site was located some 50m north of the proposed development site (ELI6706).

3.10 A site visit was made to 113 North Street in 2008, when a photo was taken of the building. The site is located some 25m north of the proposed development site (ELI9083).

3.11 A watching brief was carried out during groundworks for a new building at 99 North Street in 1999. A test pit was excavated prior to excavation of foundation trenches. Following discovery of peat in the test pit, the foundation trenches were abandoned in favour of a raft. The site was located next to the proposed development site (ELI3440).

3.12 A watching brief was carried out at 78 North Street in the year 2000. A single sherd of post-medieval to modern pottery was found, but no archaeological features were recorded. The site was located some 70m west of the proposed development site (ELI1305).

3.13 A watching brief was carried out in an area of land that was going to be used in a small residential development at the West Bank in 1999. A breakdown in communications meant that not all the trenches were monitored. The site is located some 100m west of the proposed development site (ELI2689).

3.14 An archaeological evaluation was carried out at 60 North Street in 2009. Remains suggesting medieval occupation were identified. The site is located some 125m southwest of the proposed development site (ELI9994).

3.15 An archaeological watching brief was undertaken on land adjacent to No. 3 Cluttons Close in 2004. The watching brief monitored the excavation of foundation trenches for a new house with an attached garage. The work identified a number of undated and post-medieval features. The site is located some 125m south of the proposed development site (ELI5523).

3.16 A walkover survey was carried out on land at Cloot Drove in 2000. The site had been chosen for a proposed residential development, and the walkover was carried out as part of an assessment of the archaeological implications. No archaeological remains were encountered. The site is located some 250m northwest of the proposed development site (ELI1236).

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3.17 A programme of building recording was undertaken during the re-thatching of the roof at No. 45 North Street in 2008. The building was built in 1793, of brick, but perhaps masking an older timber-framed structure. The site is located some 150m south of the proposed development site (ELI11280).

3.18 A site visit was carried out at 48 North Street and a photograph was taken of the building in 2008. The site is located some 170m south of the propsoed development site (ELI9089).

3.19 A site visit was carried out at 44 North Street and a photograph was taken of the building in 2008. The site is located some 180m south of the proposed development site (ELI9088).

3.20 A site visit was carried out at 38 North Street and a photograph was taken of the building in 2008. The site is located some 200m south of the proposed development site (ELI9086).

3.21 A programme of archaeological monitoring and recording was conducted during groundworks for the construction of a new residential dwelling on land to the rear of 26 West Bank in 2021. No archaeological features, deposits or finds were encountered. The site is located some 200m southwest of the proposed development site (ELI13603).

Monuments

3.22 The historic settlement of Crowland is also covering large parts of present Crowland (MLI20268).

3.23 A monument of undated ditches and pits exists at Cloot Drove, some 300m northeast of the proposed development site (MLI85776).

3.24 A flint axe has been found some 200m east of the proposed development site (MLI22004).

3.25 Another flint axe has been found some 100m southeast of the proposed development site (MLI22005).

3.26 A Roman coin has been found some 350m east of the proposed development site (MLI22017).

3.27 A Bronze pin has been found some 300m southeast of the proposed development site (MLI22018).

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3.28 A possible mill mound is located some 300m southeast of the proposed development site (MLI22020).

3.29 An antique gemstone of Apollo has been found in the ruins of Crowland Abbey, some 350m southeast of the proposed development site (MLI22049).

3.30 An 18th century mounting block has been found in East Street, some 200m south of the proposed development site. It was made of limestone rubble, rectangular in plan and with four steep steps (MLI22050).

3.31 The remains of Civil War defences have been found in the cemetery of Crowland Abbey, some 350m southeast of the proposed development site (MLI22051).

3.32 A possible mill mound is known to have existed some 75m north of the proposed development site (MLI22986).

3.33 The remains of the Anglo-Saxon version of Crowland Abbey exists some 400m southeast of the proposed development site (MLI23519).

3.34 A flint blade has been found in Clutton Close, some 75m southeast of the proposed development site (MLI80612).

3.35 A medieval penny has been found in a garden some 75m north of the proposed development site (MLI81808).

3.36 A Neolithic serrated blade has been found in Cloot Street, some 400m northeast of the proposed development site (MLI85778).

3.37 A Bronze Age scraper has been found in Cloot Street, some 400m northeast of the proposed development site (MLI85779).

3.38 Residual flints have been found on land between Cloot Drove and Nelson Close, some 400m northeast of the proposed development site (MLI89555).

3.39 A row of houses, built of yellow brick with slate rooves, exists at 8-14 East Street. Four equally spaced windows with stone cills and brick header arch at the first floor still exist. The windows on the ground floor have undergone heavy alterations. This is a building identified as being of historical interest by the South Holland District Council. It is a good example of a building of this period but has, in the past, been altered and has lost many of its original features and some of its historic character (MLI97135).

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3.40 An unnamed farmstead once existed at Westbank House, some 400m southwest of the proposed development site (MLI23896).

3.41 The so-called Bank House was once located some 50m north of the proposed development site (MLI23897).

3.42 An unnamed farmstead once existed some 150m east of the proposed development site (MLI23898).

3.43 Another unnamed farmstead once existed at Abbey Farm, some 300m southeast of the proposed development site (MLI23899).

3.44 Sherds of Roman pottery have been found some 250m south of the proposed development site (MLI22011).

3.45 Sherds of medieval pottery have also been found some 250m south of the proposed development site (MLI22010).

3.46 Sherds of Post-medieval pottery have also been found in the same area (MLI22009).

3.47 Based on the available information in the Historic Environmental Record for the area it seems as if there is a relatively high potential for archaeological finds and features from the Neolithic period to the Modern period.

4 AIMS

4.1 The aims of the archaeological monitoring will be achieved through pursuit of the following specific objectives:

i) to decide if the proposed development may impact on any potential archaeological remains below ground;

ii) to determine the character, date, condition and significance of the archaeological resource;

iii) to define the nature and extent of any mitigation works that may be required;

iv) to make an appropriate record of the archaeology and to produce a site report and archive.

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4.2 Specifically, the following investigative aims will be accommodated in the programme of archaeological work:

*characterisation of the site in the broader landscape;
*characterisation of the activities identified on the site;
*characterisation of changes affecting land-use through time

5 METHODOLOGY

5.1 Monitoring of Groundworks

A programme of controlled archaeological monitoring and recording will be undertaken during all steps of the groundworks. The archaeological project will therefore consist of the continuous observation of removal of overburden within the development footprints and any associated services, followed by the investigation and recording of any archaeological features that are revealed.

The supervising archaeologist will have control over the machine to ensure that the stripping is carried out so that any potential archaeological remains can be identified as early as possible.

All groundworks will therefore be made under constant archaeological supervision using a flat bladed ditching bucket. When archaeological features are encountered, they will be investigated and recorded according to the parameters described below. Revisions and amendments of the excavation methodologies may be required in consideration of further details and ongoing fieldwork results.

The program of fieldworks will take into consideration potential above- and below-ground constraints and/or hazards, such as trees, utility trenches, overhead cables and areas of modern disturbance.

5.2 Metal Detecting

Thorough metal detector sweeps of exposed features and spoil heaps will be carried out in advance of, and during, the excavation process. Deeply buried signals will be investigated only if agreed as part of the hand excavation programme.

5.3 Hand Excavation

All man-made features will be investigated. Apparently natural features (such as tree throws) will be sampled sufficiently to establish their origin and to characterise any related human activity. Hand excavation and feature sampling will be sufficient to

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establish the date and character, and to allow appropriate levels of recording. At least 1m of linears may have to be sampled in a foundation trench.

Deposits and layers (including buried horizons of top- and subsoils) will be sampled sufficiently to enable a confident interpretation of their character, date and relationships with other features. Discreet exposed features will be subject to a minimum of 50% excavation. At least 15% (or a percentage sufficient to achieve information on the character, function and dating) of linear features will be hand excavated. All slots through linear features will be at least 1m wide. Particular attention will be given to terminals and intersections, to ascertain stratigraphic and physical relationships.

Structural remains (stake holes, post holes and gullies, as well as masonry foundations or low masonry walls and associated features like hearths) will be handcleaned and documented in plan/phase, as appropriate to the requirements of the monitoring. The monitoring will provide a representative sample of the site's archaeology at no significant cost to the value or integrity of archaeological remains therein. Judgement regarding the removal of human remains, structural remains (*in situ* wood or masonry), or other special remains or deposits, will be led by this consideration, and will always be made in consultation with the Archaeological Advisor from Lincolnshire County Council. If removal of human remains is essential an exhumation licence will be requested from the Minstry of Justice.

Should exceptional remains be encountered the Archaeological Advisor for Lincolnshire County Council will be notified, and a new brief may be issued in conjunction with the present one. Normal conditions will apply with regard to finds ownership and the Treasure Act of 1996. Any finds that could be considered treasure under the terms of the Act made during the process of fieldwork will immediately be reported to the Finds Liaison Officer.

5.4 Palaeoenvironmental Sampling

The site is located in an area of high archaeological potential and has, as such, good conditions for the preservation of faunal/plant remains and/or waterlogged timber in deeper deposits. For this reason viable bulk samples to characterise soil profiles, as well as plant remains/charred plant remains, molluscs, small faunal remains and pollen sequences, will be taken from a representative selection of suitable deposits in accordance with the monitoring aims.

Special care will be taken to understand the stratigraphy of the site: Where the investigated deposits created in dry or wet conditions, and what can this, in that case, tell us about the development and history of the site? Buried soils and deposits will be carefully studied in order to understand the processes behind their creations.

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Waterlogged timber will be kept wet to prevent cracking and shrinking, and to facilitate dating and analysis of the wood.

Should Prehistoric features of uncertain age be discovered, as a result of the archaeological monitoring, environmental samples can be used for extraction of material suitable for Carbon Dating. All samples will be extracted and recorded in accordance with *Environmental Archaeology: A Guide to the Theory and Practise of Methods, from sampling and recovery to post excavation* (Historic England 2011), and in consultation with the appointed specialist and Historic England. The appointed Plant Remains and Environmental Samples Expert Val Fryer will also be available to assist throughout the project.

5.5 Recording

A numbered single context-based recording system, written on suitable forms and indexed appropriately, will be used for all elements of the archaeological recording programme.

Measured plans will be produced to show all exposed features (including natural features, modern features, etc.) and excavated areas. Individual measured plans and sections in the scales 1:10, 1:20 and 1:50 will be produced for all excavated features and deposits. These will be accurately tied in to trench plans/trench location plans that in turn will be accurately related to the Ordnance Survey grid and to suitably mapped local features (boundaries, buildings, roads, etc.). All sections and plans will be related accurately to Ordnance Datum.

A photographic record comprising monochrome and high-resolution digital photos will form part of the excavation record. A selection of digital photos will also be used in the final report (a maximum of two photos per A4 sheet). The photographic record will follow CIfA standards.

5.6 In Situ Preservation

Should a preservation *in situ* strategy be applicable, following appropriate excavation and recording, all exposed surfaces will be cleaned and prepared for re-burial beneath construction materials. If necessary, the laying out of geotextile and/or buffering materials will be carried out under archaeological supervision. All decisions regarding an *in situ* strategy will be coordinated with the Archaeological Advisor from Lincolnshire County Council.

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6 ASSESSMENT AND REVIEW

6.1 The archaeological investigation will be followed by an assessment of the character and significance of all categories of the recorded evidence. The assessment will be undertaken by suitably qualified specialists in accordance with MoRPHE (Historic England 2015). However, an Updated Project Design may only be necessary should important archaeological remains be uncovered during the Monitoring phase.

6.2 The assessment report will contain a thorough appraisal of the recorded evidence within its local, regional and national context.

6.3 Arrangements for the long term storage and deposition of all artefacts will be agreed with the landowner and the HER before or during the reporting stage. Transfer of title and the transfer of the ownership of the archive to the Lincoln Museum will be arranged at this time and the arrangements indicated in the project report.

7 REPORT

7.1 Specific publication requirements will be agreed during the assessment review. Publication of a short report within a refereed local journal or national journals will be anticipated. Copies of the final report will be submitted to the Lincolnshire HER and the client. Copies may also be offered to Historic England or submitted to the general public on request.

7.2 The report will be supported by sufficient photos, maps, plans and sections to complement the text. Phase plans, artefact and reconstruction drawings may also form part of the report.

7.3 The investigation report will be concluded within four weeks from the completion of the fieldworks. Minimum requirements for the site report is listed in the *Archaeological Handbook for Lincolnshire* (Ed. Jennings 2019).

7.4 An OASIS form will be completed once all field work has finished. A Data Collection Form will be include in the report as required.

8 ARCHIVE

8.1 It is a requirement of the HER that significant excavation archives pertaining to Lincolnshire should be held close to source and made readily available to

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the general public and local and national researchers. The site archive will therefore conform to the guidelines in MoRPHE (2015), and be deposited within the Lincoln Museum on completion of site analysis and any ensuing publication.

8.2 If alternative arrangements for storage are agreed, the archive will be prepared to the requirements of MoRPHE (Historic England 2015) and to the CIfA *Standard and Guidance for the Creation, Compilation, Transfer and Deposition of Archaeological Archives* (CIfA 2020), *Selection, Retention and Dispersal of Archaeological Collections* 1993 (Society of Museum Archaeologists, 1993), and Standards *in the Museum Care of Archaeological Collections* 1992 (Museums and Galleries Commission, 1992).

8.3 In either case, the requirement for conservation of significant items for long term storage and display will be anticipated. As a supplement to a paper archive, proposals for the creation of a digital archive will be submitted.

9 MISCELLANEOUS REQUIREMENTS AND CONSIDERATIONS

9.1 The Archaeological Advisor for Lincolnshire County Council will be given notice of when work is due to commence. The Lincolnshire County Council Archaeological Advisor will also monitor implementation of the programme of works on behalf of the Local Planning Authority and evaluate the work being undertaken on site according to the methodology detailed in this specification.

9.2 The Archaeological Advisor for Lincolnshire County Council will also be responsible for considering any changes to the specification of works. Any such alterations will be agreed in writing with the relevant parties prior to commencement of on site works, or at the earliest available opportunity.

10 STAFF

10.1 The site team will consist of an experienced archaeologist, who may be supplemented by additional staff as required. It is expected that the monitoring will take up to 3 days to conclude. Additional days may be needed, should exceptional finds or features be uncovered as a result of the fieldworks. Finds processing and dating is expected to take up to 2 days and the writing up of the site report another 2 days. Archiving is expected to take 1 day at the end of the project.

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10.2 The Site Manager will be Dr. Christer Karlsson who has 25 years of experience from directing archaeological sites. Dr. Karlsson has wide experience from performing, monitoring and managing archaeological fieldwork projects of different periods throughout Britain. He is the Director of Independent Archaeology Consultants and a member of the Chartered Institute for Archaeologists.

10.3 Specialists who are likely to advice and report on specific aspects of the project include Jerry Evans (Roman pottery), Paul Blinkhorn (Saxon, Medieval and Post-Medieval pottery), Sarah Percival (Prehistoric pottery), Val Fryer (Plant Remains and Environmental Samples), Dr Tania Kausmally (Human and Animal Bones) and Dr Sonia O'Connor (Archaeological Conservation). Any other categories of specialist reports will be provided by Museum of London Specialist Services. The conservation specialists will be notified prior to the start of the project, so a stand-by system is in place should waterlogged artefacts, or other sensitive archaeological material, be uncovered.

11 MONITORING

11.1 The Archaeological Advisor for Lincolnshire County Council may visit the site as appropriate. Site visits can be planned in during all stages of the fieldworks.

12 HEALTH AND SAFETY

12.1 The fieldwork will be undertaken with regard to all relevant Health and Safety legislation, in accordance with the *Independent Archaeology Consultant's Health and Safety Manual* (2022). Independent Archaeology Consultants is a CSCS-accredited organisation and has, as such, the necessary skills and requirements to direct working sites in a safe and secure manner. A copy of the Risk Assessment for the site can be sent to the Archaeological Advisor for Lincolnshire County Council on request.

13 INSURANCE

13.1 Independent Archaeology Consultants carries appropriate levels of Public Liability, Employers Liability Insurance and Professional Indemnity Insurance. Copies of the certificates are available on request.

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14 TIMETABLE

14.1 The archaeological monitoring can be conducted by Independent Archaeology Consultants as soon as all necessary permissions have been obtained, the WSI has been approved by the Council and the client gives the field team access to the site. It is anticipated, however, that the monitoring can be carried out during the summer of 2023.

15 REFERENCES

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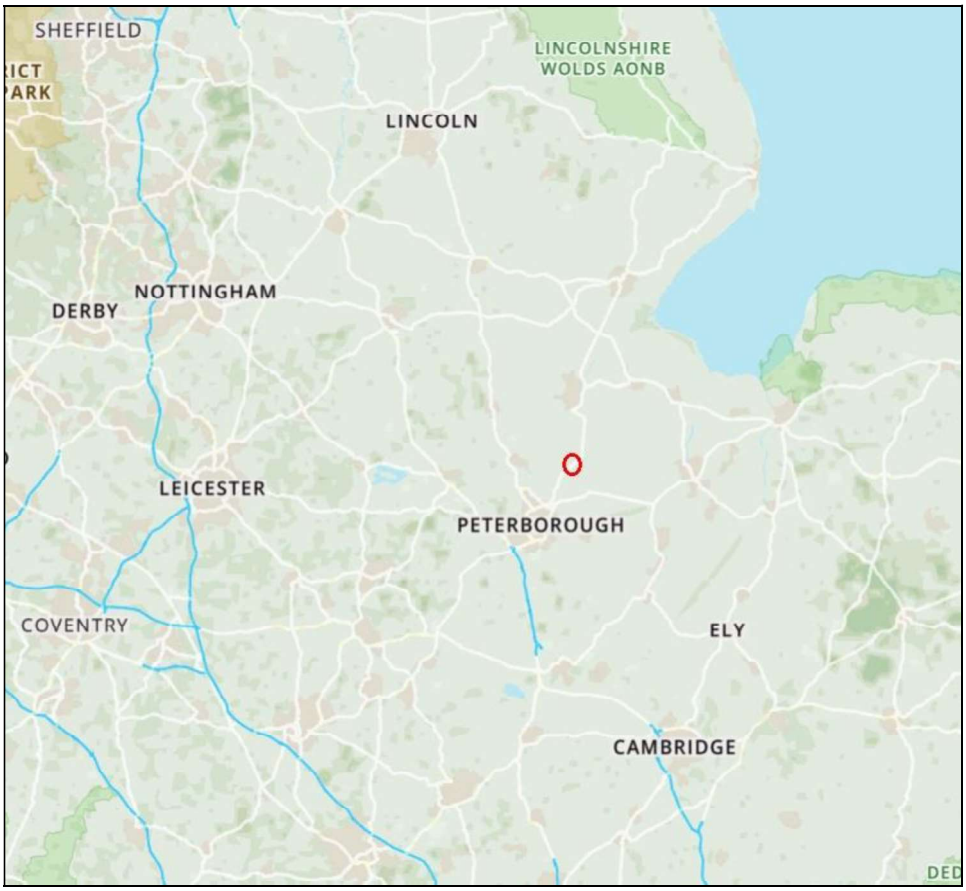
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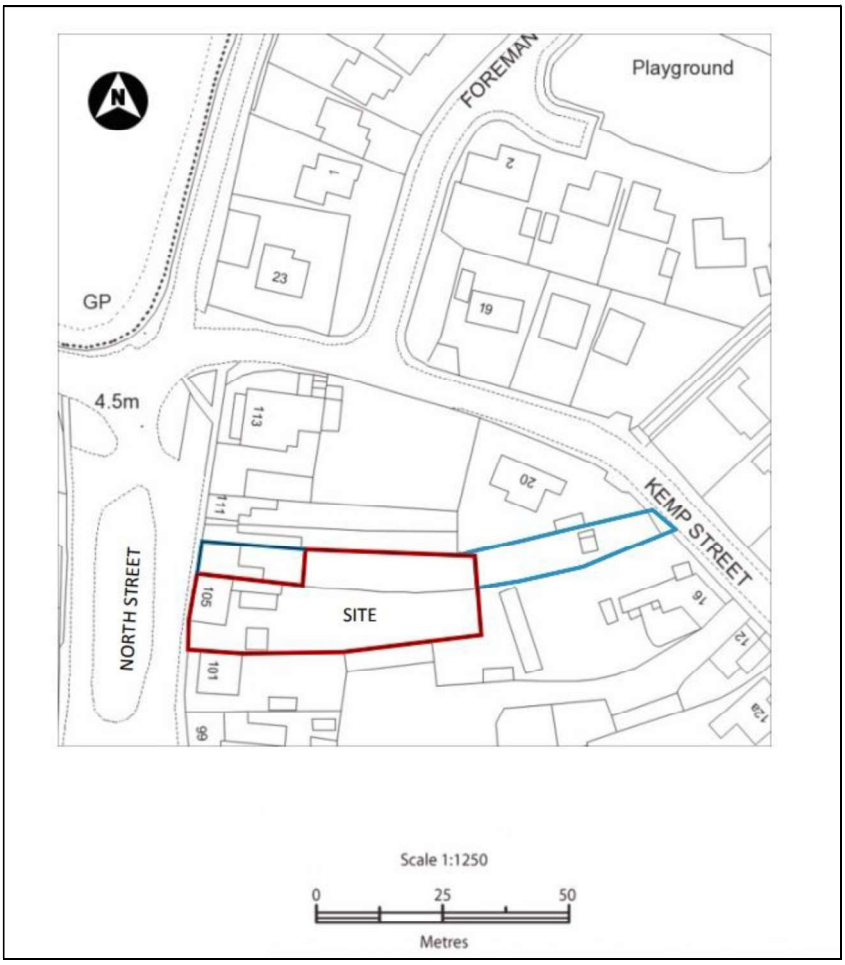
APPENDIX 1. SITE LOCATION IN ENGLAND



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APPENDIX 2. THE PROPOSED DEVELOPMENT AREA



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