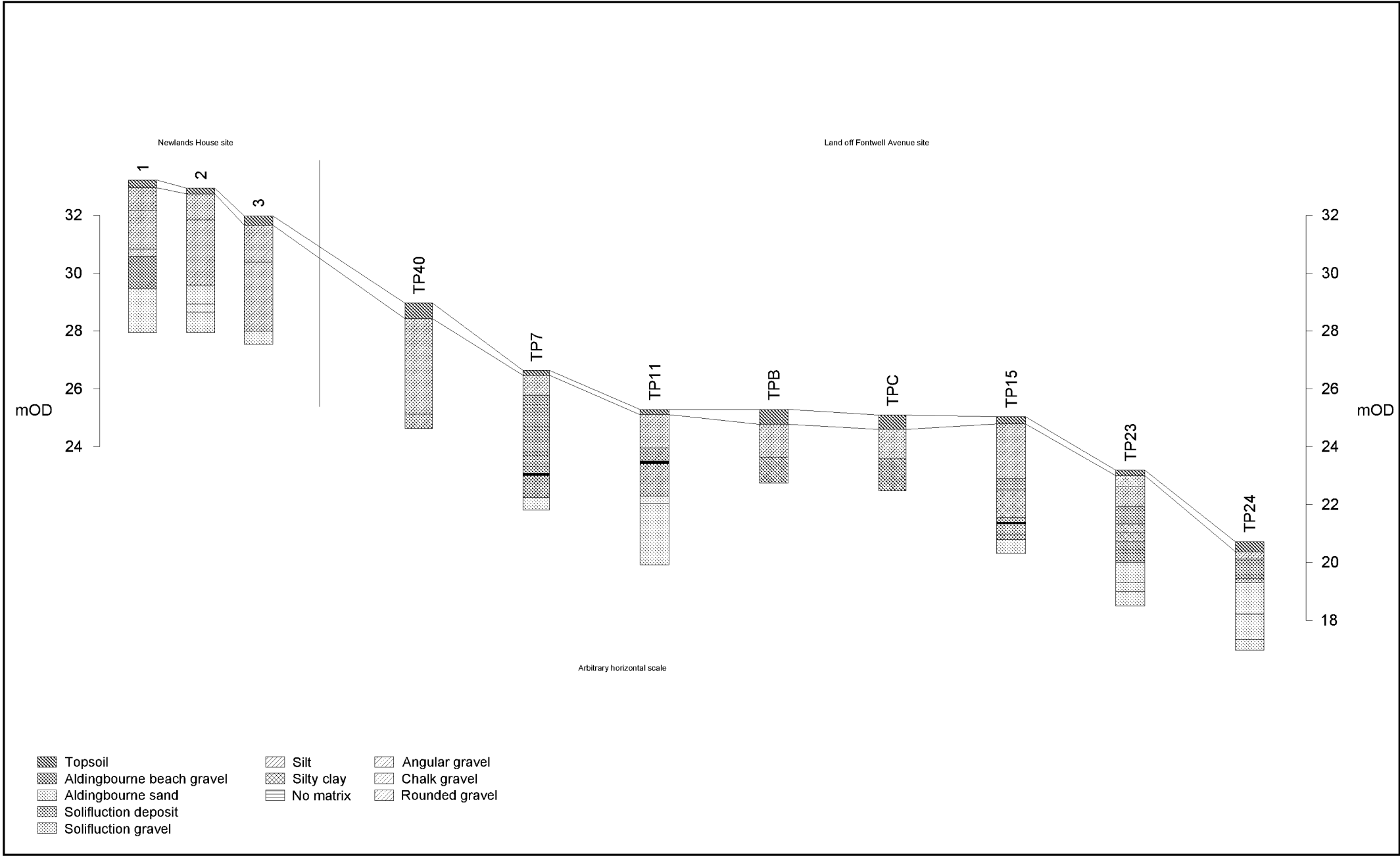
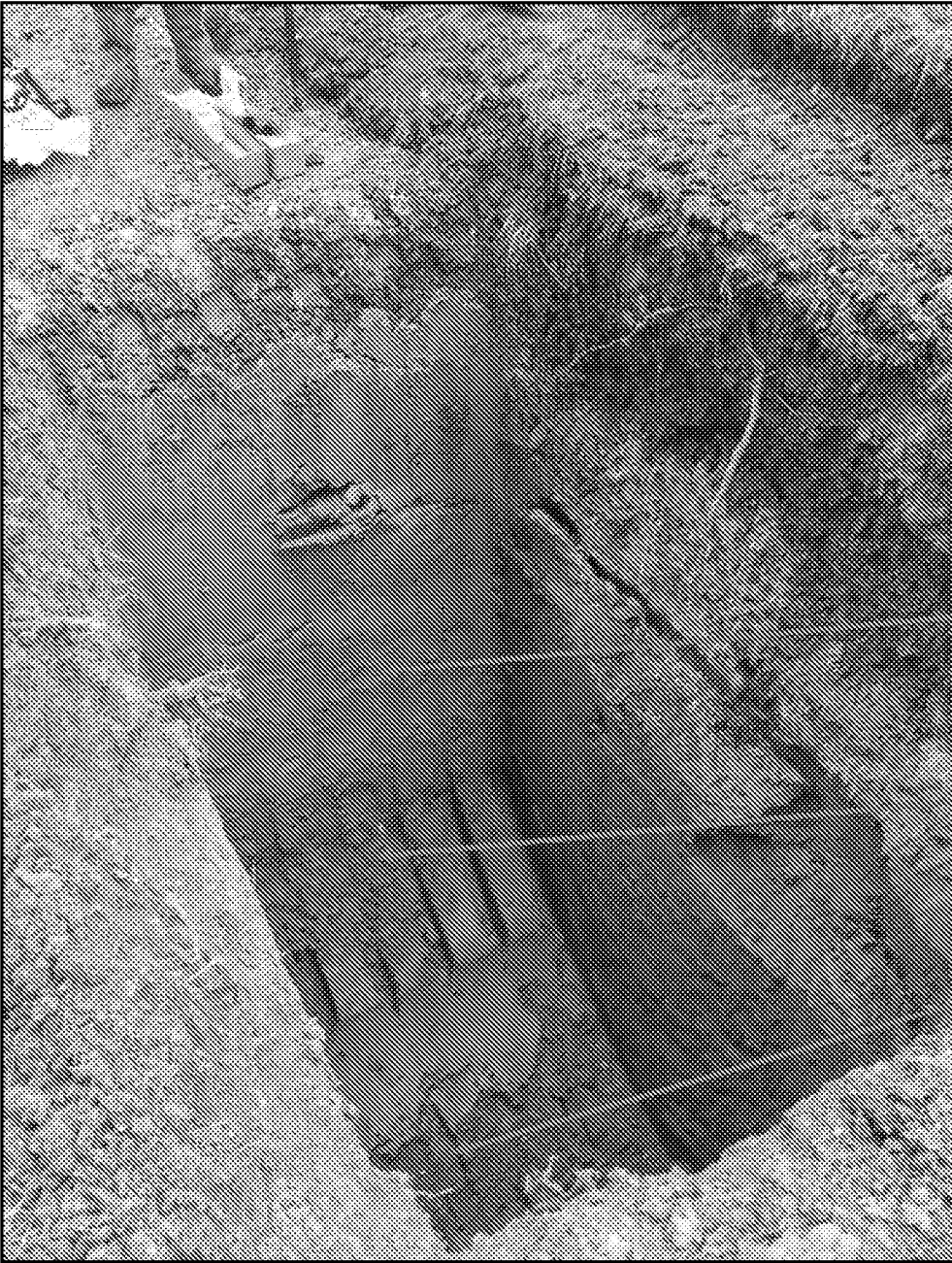
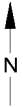




© Archaeology South-East		Land of Fontwell Avenue, Fontwell, West Sussex	Fig. 2
Project Ref: 7286	March 2015	Transect through geoarchaeological test pits	
Report Ref:	Drawn by: RHC		



Trench 24

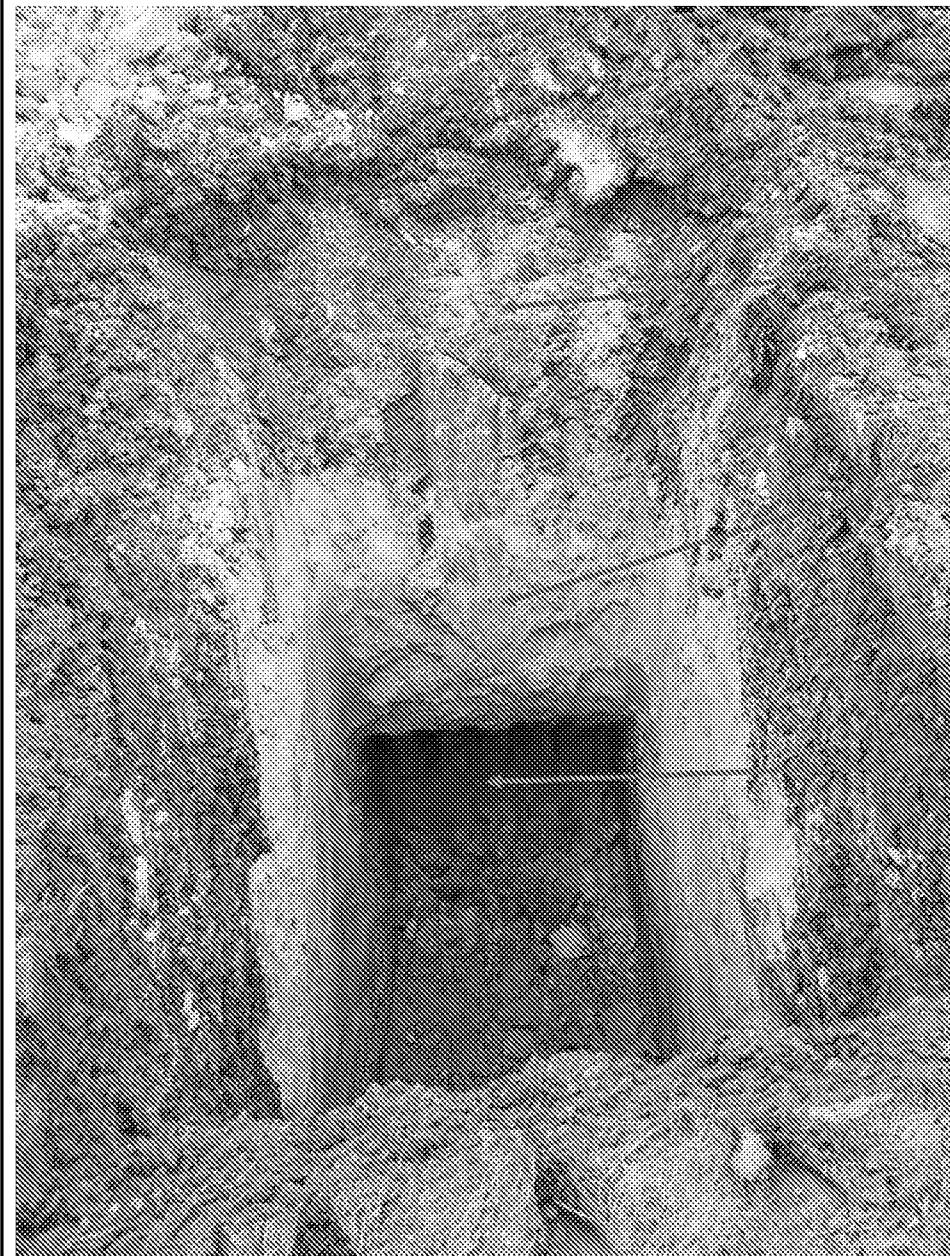


Marine sands

Marine sands, possible bedrock

Tertiary bedrock

© Archaeology South-East		Land off Fontwell Avenue, Fontwell, West Sussex	Fig. 3
Project Ref: 7286	March 2015	GTP 24	
Report Ref: 2015069	Drawn by: DAH		



Tr 7

Cold climate solifluction gravels

Cold climate colluvial deposits

Marine sands



© Archaeology South-East

Land off Fontwell Avenue, Fontwell, West Sussex

Project Ref: 7286

March 2015

Report Ref: 2015069

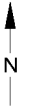
Drawn by: DAH

GTP 7

Fig. 4



TR 11



Possible organic horizon,
rich in shells

Marine sand

© Archaeology South-East

Project Ref: 7286

March 2015

Report Ref: 2015069

Drawn by: DAH

Land off Fontwell Avenue, Fontwell, West Sussex

GTP 11

Fig. 5

**Land off Fontwell Avenue, Fontwell,
West Sussex**

Centred at NGR 495151, 106812

Archaeological Evaluation

Written Scheme of Investigation

Site Code: FFA 15

ASE Project no: 7286

February 2015

Prepared by Odile Rouard

**Archaeology South-East
Units 1&2
2, Chapel Place
Portslade
East Sussex
BN41 1DR**



1.0 Introduction

- 1.1 Archaeology South-East (ASE), the contracting division of The Centre for Applied Archaeology at the Institute of Archaeology, University College London, have been commissioned by CgMs Consulting, on behalf of their client, to undertake an archaeological evaluation of land off Fontwell Avenue, Fontwell, West Sussex, hereafter referred to as 'the site'. The site is centred at National Grid Reference (NGR) 495151 106812 and its location is shown on Figure 1.
- 1.2 The site is located within Fontwell, east of Fontwell Avenue and south of Arundel Road. The site comprises an area of pasture land and lies at around c.25m OD, although ground level seems to be sloping gently to the south. The underlying geology of the site, according to recent data from the British Geological Survey (BGS 2014) consists of a sedimentary bedrock of clay, silt and sand (Lambeth group) overlain by head deposits of gravel, sand, silt and clay.
- 1.3 Planning permission has been granted by Arun District Council for the residential development of the site, consisting of the construction of new housing with associated access roads, services and landscaping. Due to the archaeological potential of the site, as outlined in a prior Desk Based Assessment (CgMs 2014), a programme of archaeological works is required as a condition of consent.
- 1.4 The first stage of such archaeological works will comprise an archaeological trial trench evaluation of the site. This document represents a Written Scheme of Investigation (WSI) which outlines the scope of a Stage 1 archaeological evaluation and has been submitted to CgMs Consulting and WSCC, in their capacity as archaeological advisors to the Local Planning Authority, for approval prior to the commencement of fieldwork. It has been prepared with reference to the relevant *Standards and Guidance* of the Institute for Archaeologists (IfA). All work will be carried out in accordance with these documents (unless otherwise specified below). Further work and/or measures to preserve archaeological remains in situ may be required if significant archaeological remains are found during the evaluation. In the event that further archaeological excavation is required a supplementary WSI will be prepared detailing the proposed work and submitted for approval.

2.0 Historical and Archaeological Background

- 2.1 The following summary is drawn from the Desk Based Assessment of the site (CgMs 2014). For a complete background, please refer to that document.

Prehistoric

- 2.2 A series of prehistoric sites and find spots are known in close proximity to the site. Raised Beach deposits have been recorded north of Arundel Road, although no Paleolithic material was found. A large quantity of Bronze Age pottery, as well as some Iron Age pottery was found within a ditch north of Arundel Road, at about c.120m from the site. A Late Bronze Age urn was discovered during the excavation of a pit along Eastergate Lane to the south of the site, and more Iron Age finds associated with a hearth and trench were also excavated at Copse/Binsted Lane.

Roman

- 2.3 The site lies along the Arundel Road, which is believed to follow the course of an earlier Roman Road. Excavations at Morelands Cottage to the north of the site, have exposed a V-shaped ditch containing Roman pottery from the 2nd and 3rd, including Samian ware. An urned cremation of a similar date was also found c.635m west of the site.

Early medieval and medieval

- 2.4 There is no evidence of Saxon or early medieval occupation near the site but medieval pottery sherds were found during an evaluation north of Arundel Road. No settlement was recorded in Fontwell in Domesday Book and although there might have been a road still in use nearby, it seems Fontwell was on the periphery of the manors of Eastergate and Walberton.

Post-medieval

- 2.5 The first evidence for a hamlet having existed in Fontwell dates back to 1630. There was also a coaching inn of late 18th century date adjacent to Arundel Road (the Balls Hut Inn), which was then demolished after the arrival of the railway to Brighton in 1845 (Howell and Surrell 1994). The first map showing the site is the Walberton Estate Map of 1756, which shows six enclosed cultivated fields. A smaller enclosure within the site can be identified as the site of the Balls Hut Inn. The Eastergate Tithe Map of 1845 and the Walberton Tithe Map of 1846 show the former common land to the west being enclosed and cultivated. A barn and yard were also added. The six fields that appear in the eastern area in the previous map become three larger fields.

The 1880 Ordnance Survey map shows the field boundaries having been removed and the area turned into one single field. On the 1914 Ordnance Survey map, a reservoir was built by the Bognor Water Works Company within the site, next to where the Bulls Hut Inn had been. The 1951 map shows a few rectangular features (possible pig pens or agricultural structures) being added, although most of them have now been removed.

3.0 Research aims and objectives

3.1 The general aims of the evaluation are:

- To establish the presence or absence of archaeological remains and deposits within the site which particular focus on the Raised Beach deposits that may contain archaeological and palaeo-environmental evidence relating to the Pleistocene/Palaeolithic period.
- To determine the survival, extent and minimum depth below modern ground level of any such deposits.
- To determine the nature and significance of any archaeological deposits.
- To enable Arun District Council to make an informed decision as to the requirement for any further archaeological work at the site.

3.2 In addition, specific research aims, based on the findings of the South-East Research Framework (SERF) include the following:

Bronze Age and Iron Age

- Is there any evidence for Later Bronze Age land division on the site and can such evidence inform on the long-term history of Bronze Age land division in Sussex?
- Is there any evidence for Later Iron Age occupation on the site and if so, can this inform on the nature of the Middle Iron Age – Late Iron Age transition?

Roman

Is there any evidence for Roman occupation on the site and can this inform on the character of Roman rural settlement and the Roman agricultural economy in the area?

4.0 Methodology

- 4.1 A total of 46 trenches measuring 50m long and 1.8m wide, along with 23 geoarchaeological test pits measuring 2m by 2m (within selected trenches on an east-west & north-south axis) will be excavated across the site. Trench locations are shown in Figure 2.
- 4.2 The trenches will be accurately located by means of a Digital Global Positioning System (DGPS) and DGPS Total Station (Leica 1205 R100 Total Station, Leica System 1200 GPS or similar). Site constraints may necessitate minor revisions to trench positions but any major revisions to trench positions will be agreed in advance with CgMs consulting and WSCC.
- 4.3 The trench locations will be scanned prior to excavation using a Cable Avoidance Tool (CAT) operated by accredited ASE personnel.
- 4.4 Trenches will be mechanically excavated using a toothless ditching bucket under archaeological supervision. Machine excavation will continue to the top of archaeological deposits or the surface of geological drift deposits, whichever is uppermost. Machine excavation will proceed with caution and in spits of no more than 200mm depth. Excavation of geoarchaeological test pits will be carried under the supervision of a suitably qualified geoarchaeologist and a record of the stratigraphy kept. These pits will be recorded and backfilled on the same day.
- 4.5 Spoil heaps and trench bases will be scanned with a metal detector as will the spoil derived from excavated features.
- 4.6 Once CgMs and WSCC (on behalf of Arun District Council) have authorised it, trenches will be backfilled and compacted upon completion but no formal re-instatement (e.g. re-turfing, re-seeding, etc.) will be undertaken. Weekly summary reports will be submitted to CgMs Consulting Ltd and WSCC for the purposes of effective monitoring of the fieldwork. These will include plans showing principal archaeological features present and spot-dates of principal archaeological contexts/features.

5.0 Excavation and Recording Techniques

- 5.1 Excavation strategy will be in accordance with *IfA Standards and Guidance*. Archaeological deposits/features will be cleaned, recorded and excavated sufficiently to characterise their nature.
- 5.2 All archaeological features and deposits will be recorded using the standard context record sheets used by Archaeology South-East.
- 5.3 Archaeological structures, features and deposits exposed or excavated will be planned in relation to the trench and the trench planned onto a copy of the Ordnance Survey map not smaller than 1:2500 scale.

Sections of each trench, or representative sections where uniform deposits are encountered, will be properly drawn and recorded.

- 5.4 Should human remains be discovered on the site CgMs and WSCC will be informed immediately. All statutory provisions will be followed.
- 5.5 Environmental samples will be processed and assessed in accordance *IfA Standards and Guidance*. If deposits suitable for environmental sampling are encountered (such as dated excavated contexts of buried soils, well-sealed slowly silting features, sealed hearths, sealed features containing evident carbonised remains, peats, water-logged or cess deposits), bulk soil samples (40 litres or 100% of smaller features) will be taken for environmental analysis. Bulk samples will target recovery of plant remains (charcoal and macrobotanicals), fish, bird, small mammal and amphibian bone, and small artefacts. Specialist samples may also be taken from dry or waterlogged contexts. Such samples will target recovery of pollen (using monolith tins), molluscs, foraminifera, parasites and insects. Larger samples (80-100 litres) will be extracted wholesale from deposits rich in marine molluscs and large mammal bones. As a general rule waterlogged wood specimens will be recorded in detail in their original location. In all instances deposits with clear intrusive material shall be avoided.
- 5.6 Reasonable access to the site is to be arranged for representatives of the Local Planning Authority and Local Planning Authority Archaeological Officer who may wish to make site inspections to ensure that the archaeological investigations are progressing satisfactorily.

6.0 Processing and identification of material recovered from excavation

- 6.1 All pottery, bone and worked flint recovered from the excavations will be washed and marked with an appropriate code to identify the site and context (ASE 2007). Most ceramic and other building material and burnt flint will be identified, counted, weighed and discarded. Samples will be retained as appropriate. Finds will be bagged in polythene bags according to type and context.
- 6.2 The lithic and ceramic finds will be identified by specialists within Archaeology South-East, and preliminary identification of faunal remains may be undertaken if the nature of the deposits justifies such study. All finds in an unstable condition will be stabilised using passive conservation techniques where appropriate before being deposited with the receiving museum.
- 6.3 Bulk samples will be processed using tank flotation unless considered detrimental to the samples or recovery rate (such as for waterlogged samples). Waterlogged samples will be wet sieved through nested sieves and stored in wet, cool conditions or dried if considered an

appropriate form of conservation for the remains. If waterlogged wood specimens are removed they will be cleaned, photographed and a thin section sample will be taken for identification. Specimens will either be stored in wet cool conditions or dried if considered appropriate for the material.

7.0 Post-Excavation Analysis, Reporting and Archive

7.1 This will follow the requirements of *IfA Standards and Guidance*.

7.2 Within four weeks of completion of the evaluation fieldwork a report will be submitted to CgMs for internal review and onward submission to the County Archaeologist. Copies of the approved report are to be provided to:

- the Developer
- the County Archaeologist
- the Local Planning Authority
- the Local Archaeological Society

7.3 Report Format - The evaluation report will include as a minimum:

7.4 An Abstract summarising the scope and results of the archaeological evaluation.

7.5 An Introduction including:

- the location of the site with a National Grid Reference for the centre sufficient to locate the site to 1m accuracy,
- an account of the background and circumstances of the work;
- a description of the development proposals, planning history and planning reference together with the archaeological condition (where appropriate);
- the nature of potential impacts arising from the proposals;
- the scope and date of the fieldwork, the personnel involved and who commissioned it;

7.6 An account of the Archaeological Background of the development site including:

- geology, soils and topography;
- any known existing disturbances on the site;
- background archaeological potential of the site. This will include a summary of the known Sites and Monuments Record entries within 500m of the boundaries of the site (or wider where appropriate). The SMR entries will be quoted with their full KSMR identifier (e.g. TR 36 NW 12);
- summary of any previous phases of archaeological investigation at the development site;

- 7.7 The Methodology employed during the evaluation must be detailed in the report. Any aims and objectives specified in the specification will be included as will any further objectives identified during the course of the evaluation. Constraints on the evaluation will also be described.
- 7.8 The report will include a quantification of the project archive contents, their state and future location.
- 7.9 The Results of the evaluation field work will be described trench by trench. This description must include for each trench:
- the dimensions of the trench;
 - the nature and depth of overburden soils encountered;
 - description of all archaeological features and finds encountered in each trench, their dimensions, states of preservation and interpretation;
 - a description of the geological subsoil encountered in each trench;
 - heights related to Ordnance Datum for a sufficient number of features and deposits. Where the trench results are complex a table showing the dimensions and heights of features and deposits will be included for each trench.
 - for complex stratigraphy a Harris Matrix diagram.
- 7.10 The Finds recovered during the course of the evaluation will be described, quantified and assessed by artefact type within the evaluation report. The report will also provide an indication of the potential of each category of artefact for further analysis and research. For each category of artefact the report will describe the method of processing, any sub-sampling, conservation and assessment undertaken. Where appropriate local reference collections will be referred to for descriptive and analytical consistency. Any implications for future archive, conservation or discard of the artefacts will also be set out.
- 7.11 The report will include a table showing, per trench, the contexts, classes and quantity of artefacts recovered, together with their date and interpretation.
- 7.12 The evaluation report will include an assessment of the Environmental potential of the site. Details will be provided of any environmental sampling undertaken in connection with the fieldwork and the results of any processing and assessment of the samples. The report will describe the method of processing, any sub-sampling and assessment. Any potential for future analysis of the samples or environmental remains recovered from the evaluation will be described. Implications for future archive, conservation or discard of environmental samples or remains will be detailed.

- 7.13 The report will include, as appropriate, tables summarising environmental samples taken, together with the results of processing and assessment.
- 7.14 Any results from the application of archaeological scientific techniques e.g. specialist dating will be included in the evaluation report.
- 7.15 An Interpretation of the archaeology of the site will be provided, including its location, extent, date, condition, significance and importance. This will be a synthesis of the stratigraphic, finds and environmental results of the investigation and will include, even if no archaeology is identified as present on the site, description of areas of disturbance, non-archaeological deposits and changes in geological subsoil where appropriate. This section of the report will be supported by a phased interpretative plan of the site, clearly showing the major areas and periods of archaeological activity.
- 7.16 An Impact Assessment will consider the potential effects of the development on the archaeological remains. This will summarise the archaeological results, describe how any identified archaeological potential identified relates to the site and how the development proposals will affect that archaeology. The report will highlight any areas of sensitivity within the site. Particular note will be made of any variations in the depth of overburden covering any archaeological deposits revealed.
- 7.17 The Conclusion will summarise the method, results, interpretation and impact assessment.
- 7.18 The evaluation report will assess the potential for preservation at the site to inform decisions about mitigation strategies. It will not include any recommendations on preservation measures or further work unless otherwise agreed with the County Archaeologist.
- 7.19 The evaluation report will include comments on the effectiveness of the methodology employed and the confidence of the results and interpretation.
- 7.20 Figures / illustrations – The report will include sufficient illustrations to support descriptions and interpretations within the report text. Figures are to be fully cross-referenced within the document text. As a minimum the evaluation report will include the following figures:
- a site location plan tied into the Ordnance Survey at 1:1250. The plan will also include at least two National Grid points to 1m accuracy and show the site boundary;
 - trench location plans at an appropriate scale showing the layout of archaeological features, coloured by phases or period. The plan will show the location of all trenches and features. A copy of the plan will be overlain on the proposed development plan where this is known. Where possible, projection of archaeological features outside of the trench
-

areas will be included on the plan. This plan will also include two National Grid points;

- plans of the features revealed in each of the trenches at a larger scale e.g. 1:20 or 1:50; such plans are to also illustrate areas of disturbance, change in subsoil and location of sections; The location of significant finds and samples taken will also be indicated;
- relevant section drawings and trench soil profiles as appropriate;
- illustrations and/or photographs of significant finds.

7.21 All report illustrations will be fully captioned and scale drawings must include a bar scale. Standard archaeological drawing conventions must be used. Plan and section illustrations must include the numbers of all contexts illustrated. North must be included on all plans and will be consistent. Sections must indicate the orientation of the section and the Ordnance Datum height of the section datum.

7.22 Black & White or Colour photographs will be included to illustrate key archaeological features, trenches and site operations. All photographs will be appropriately captioned.

8.0 Project Management

8.1 This project will be managed by Darryl Palmer (Fieldwork) and Jim Stevenson (Post-Excavation).

9.0 Health and Safety

9.1 Health and Safety must take priority over archaeological requirements. It is essential that all projects be carried out in accordance with safe working practices and under a defined Health and Safety Policy. A Risk Assessment for the project will be prepared prior to the commencement of work and all relevant health and safety regulations will be adhered to.

10.0 Preparation and deposition of the finds and archive

10.1 The site archive will be assembled in accordance with the guidelines set out in English Heritage's Management of Archaeological Projects 2 and in accordance with the guidelines published in *Guidelines for the Preparation of Excavation Archives for Long-term Storage* (United Kingdom Institute for Conservation, 1990) and *Standards in the Museum Care of Archaeological Collections* (Museums and Galleries Commission, 1994).

- 10.2 Permission will be sought to deposit the archive with Fishbourne Museum, who will be notified of the project. The archive will be prepared according the principles of Management of Archaeological Projects (English Heritage, 1991) and the requirements of the recipient museum.

11.0 Public Communication

- 11.1 The scale of public communication will be dependent on the quality of the results of the archaeology and will be agreed between CgMs, ASE and WSCC.

12.0 Insurance

- 12.1 Archaeology South-East is insured against claims for: employer's liability to the value of £50,000,000 each and every loss, any one occurrence; primary public/products liability to the value of £50,000,000 any one occurrence and in the aggregate for products liability, with an extension for no-fault compensation up to £15,000,000 in the aggregate; professional indemnity to the value of £15,000,000 any one occurrence and in the aggregate.

Archaeology South East
February 2015

References

Archaeology South-East, 2007 *Post-Excavation Manual 1: Finds and Environmental Deposition and Processing Guidelines*

BGS 2014 <http://mapapps.bgs.ac.uk/geologyofbritain/home.html> accessed 3rd February 2015

CgMs, 2014, *Archaeological Desk-Based Assessment, Land off Fontwell Avenue, Fontwell, West sussex*

Howell I and Surrell I, 1994, '*Fontwell*' in *The Parish of Walberton: Containing the Villages of Walberton, Binsted and Fontwell*. Walberton Parish Council

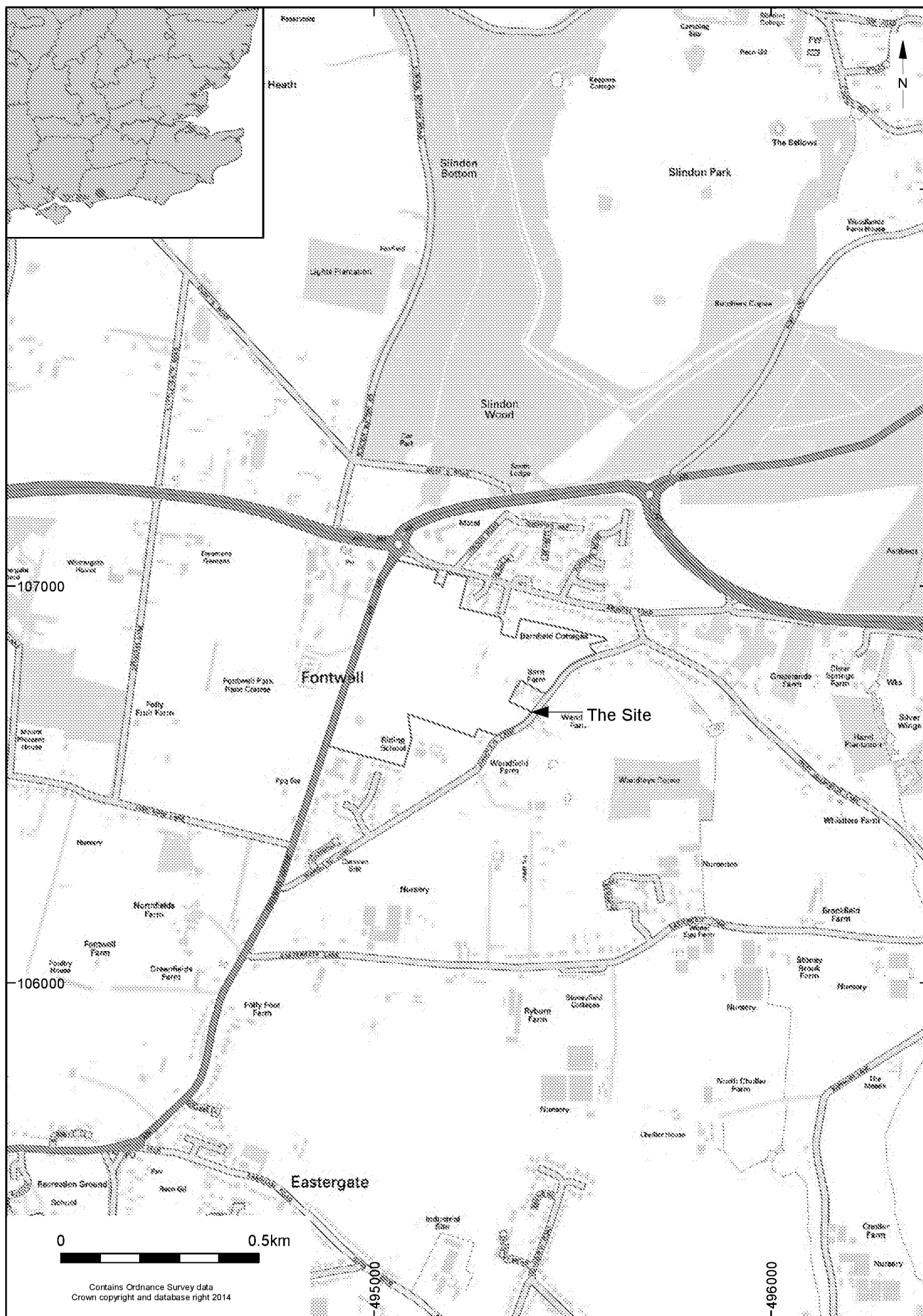
English Heritage, 1991 *Management of Archaeological Projects 2*

English Heritage, 2008 *Management of Research Projects in the Historic Environment*

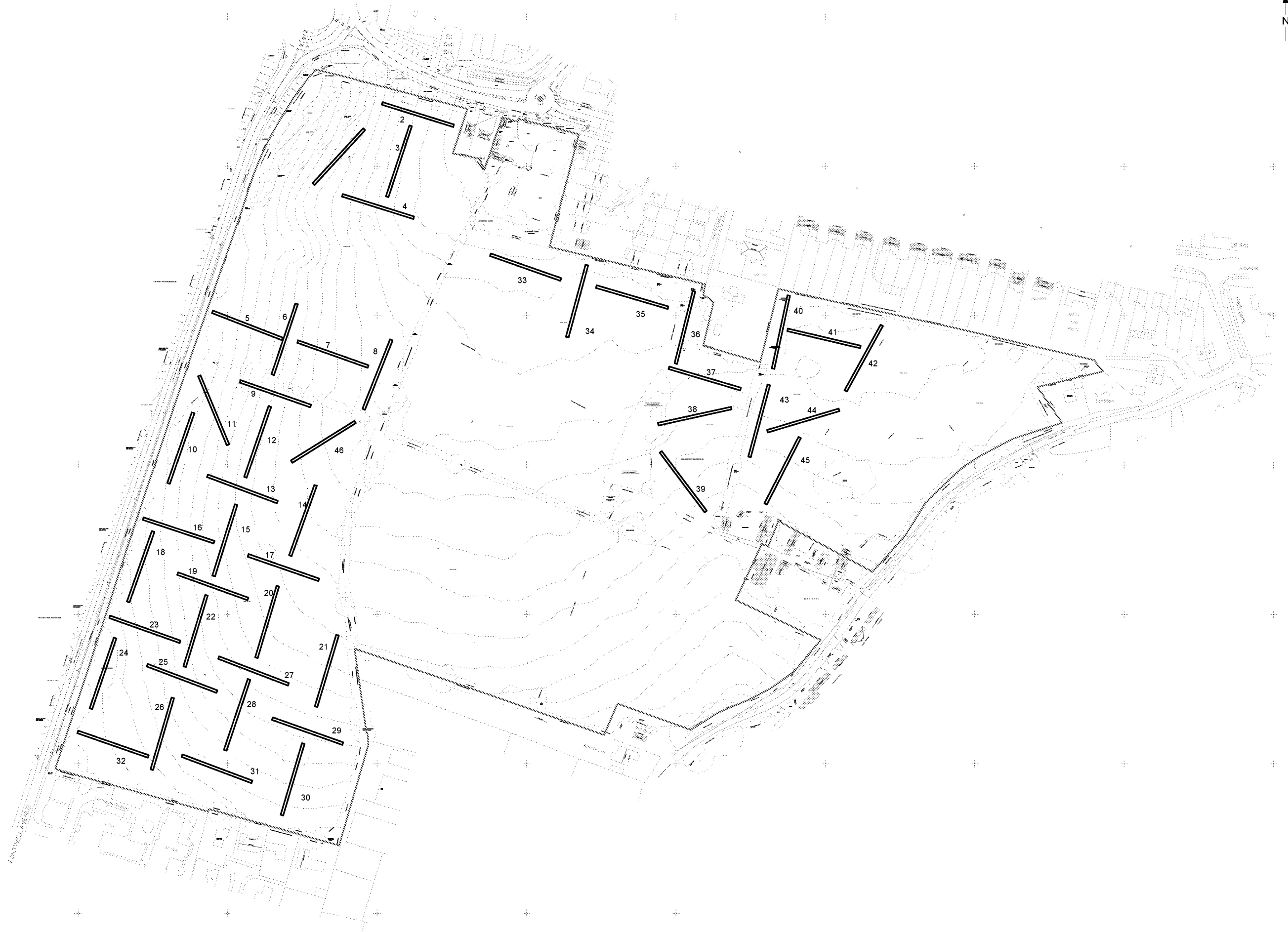
English Heritage, 2011 *Environmental Archaeology: A guide to the theory and practice of methods, from sampling and recovery to post-excavation*

IfA, 2008 *Standard and Guidance for the collection, documentation, conservation and research of archaeological materials*

Society of Museum Archaeologists, 1993 *Selection, Retention and Dispersal of Archaeological Collections, Guidelines for use in England, Wales and Northern Ireland*, (1st ed.)



© Archaeology South-East		Land off Fontwell Avenue, Fontwell	Fig. 1
Project Ref: 7286	Feb 2015	Site location	
Report Ref:	Drawn by: JLR		



Ordnance Survey (c) Crown Copyright 2015.
All rights reserved. Licence number 100022432

© Archaeology South-East		Land off Fontwell Avenue, Fontwell	Fig. 2
Project Ref: 7286	Feb 2015	Trench location	
Report Ref:	Drawn by: JLR		

Cgms

www.cgms.co.uk