## East Midlands Gateway Phase 2 (EMG2)

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**ENVIRONMENTAL STATEMENT** 

**Volume 2 Technical Appendices** 

Appendix 14E

# EMG2 Preliminary Sources Study Affecting LCC

July 2025

The East Midlands Gateway Phase 2 and Highway Order 202X and The East Midlands Gateway Rail Freight and Highway (Amendment) Order 202X





### **GROUND SOLUTIONS**

East Midlands Gateway 2 Segro Administration Limited

Preliminary Sources Study Report Affecting Leicestershire County Council

> BWB Ref. No. 220500 GDMS No. to be advised



## **GROUND SOLUTIONS**

East Midlands Gateway 2 Segro Administration Limited

Preliminary Sources Study Report Affecting Leicestershire County

Council

GDMS No. to be advised

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## **CONTENTS**

1.	INTRODUCTION	6
	Instruction	6
	Overview	6
	Scheme Overview	7
	Existing Works	8
	Geotechnical Category	9
2.	SOURCES OF INFORMATION, DESK STUDY AND REVIEW OF FINDINGS	10
	General	10
	Geotechnical and Drainage Management Service (GDMS)	10
	Geotechnical and Geo-environmental Reports	10
	Drawings	11
	Historic Exploratory Hole Records	11
	Geotechnical Laboratory Test Data	11
	Project-specific Ground Investigation	11
	Existing Services / Utilities	12
3.	SITE DESCRIPTION	13
	Topography	13
	Geology	14
	Hydrogeology	15
	Hydrology	16
	Ground Instability Risk	17
	Historical Land Use	17
	Historical Aerial Photography and Imagery	18
	Operational / Company Records	18
	Planning History	19
	Coal Mining	
	Mining and Mineral Extraction	19
	Historical Land Waste Management	19
	Unexploded Ordnance (UXO) Risk	20
	Ground Gas	20
4.	SITE RECONNAISSANCE	21
	Site Walkover and description	21
	Recent Ground Investigations	21
5.	GROUND CONDITIONS	22
	General	22



Derivation of Anticipated Parameter Values	23
Preliminary Characteristic Parameter Values	24
Preliminary engineering assessment	25
General	25
Cuttings	25
Embankments	25
Re-use of site-won materials	26
Retaining structures	26
Culvert Extension	26
Gantry/ Signage Foundations	26
Geo-Environmental Considerations	26
Concrete in Aggressive Ground	27
PROJECT OPTIONS AND RISKS	28
GROUND INVESTIGATION SCOPING	29
General	29
Hinckley RFI Investigations	29
Detailed Design Investigations	29
references	31
	Derivation of Anticipated Parameter Values Preliminary Characteristic Parameter Values PRELIMINARY ENGINEERING ASSESSMENT General  Cuttings  Embankments Re-use of site-won materials Retaining structures  Culvert Extension  Gantry/ Signage Foundations  Geo-Environmental Considerations  Concrete in Aggressive Ground  PROJECT OPTIONS AND RISKS  GROUND INVESTIGATION SCOPING  General  Hinckley RFI Investigations  Detailed Design Investigations  REFERENCES

#### **FIGURES**

Figure 1:1: Site Location Plan

#### **TABLES**

Table 1:1: Scheme Drawings

Table 2:1: GDMS Reports

Table 3:1 Surrounding Land Use

Table 3:2 BGS Boreholes for EMG2 main site and associated developments

Table 3:3 Key Characteristics of Historical Development

Table 5:1: Typical Ground Model – Central and Eastern Site

Table 5:2: Typical Ground Model – Western site

Table 5:3: Parameter Derivation Methodology

Table 5:4: Summary of Prelim. Anticipated Ranges for Characteristic Parameter Values



#### **DRAWINGS**

EMG2-BWB-HGN-XX-DR-H-0101 Highway Plans General Arrangement Sheet 1 of 3
EMG2-BWB-HGN-XX-DR-H-0102 Highway Plans General Arrangement Sheet 2 of 3
EMG2-BWB-HGN-XX-DR-H-0103 Highway Plans General Arrangement Sheet 3 of 3

#### **APPENDICES**

Appendix 1: Groundsure Report Appendix 2: Historical Mapping Appendix 3: Historical Boreholes Appendix 4: GDMS Reports

Appendix 5: Geotechnical Risk Register

Appendix 6: Service Drawings

Appendix 7: GDMS Reports for Main Site

#### **ANNEX A**

Ground Investigation Scoping Report



#### 1. INTRODUCTION

#### Instruction

1.1 BWB Consulting (BWB) was instructed by Segro Administration Limited (the Client) to undertake a review of and submit proposals for the highway infrastructure required to aid the main East Midlands Gateway 2 development, located near Diseworth, Leicestershire.

#### Overview

Name of Project: East Midlands Gateway 2 (EMG2)

Overseeing Organisation: Leicestershire County Council (LCC)

Overseeing Organisation Ref. No: To be advised.

Principal Contractor: To be advised.

- 1.2 A Development Consent Order (DCO) will authorise the Applicant to construct and operate a Strategic Rail Freight Interchange (SRFI), which is a "nationally significant infrastructure project", as defined in the Planning Act 2008.
- 1.3 The EMG2 site is proposed on land to the northeast of Diseworth, with associated infrastructure located within this main site and along the A453. These associated works comprise a total of approximately 3.26 hectares (8.06 acres).
- 1.4 This report comprises a Preliminary Sources Study Report (PSSR) in accordance with National Highways' Design Manual for Roads and Bridges, CD622 'Managing Geotechnical Risk' (Ref.1) and relates to the proposed road improvement works falling within Leicestershire County Council (LCC) area of authority.
- 1.5 For details refer to the drawings listed in **Table 1:1**



Table 1:1: Scheme Drawings

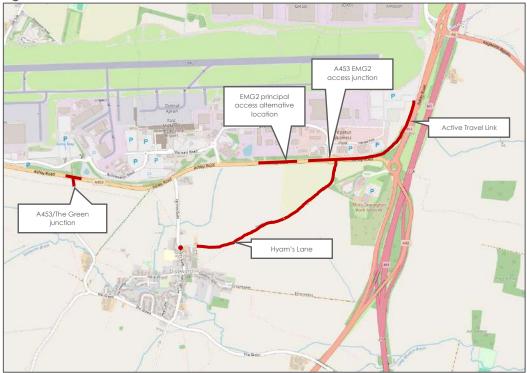
Drawing No.	Title
EMG2-BWB-HGN-XX-DR-H-0101	Highway Plans General Arrangement Sheet 1 of 3
EMG2-BWB-HGN-XX-DR-H-0102	Highway Plans General Arrangement Sheet 2 of 3
EMG2-BWB-HGN-XX-DR-H-0103	Highway Plans General Arrangement Sheet 3 of 3

#### **Scheme Overview**

1.7 The Ordnance Survey grid reference at the approximate centre of the LCC infrastructure works addressed by this PSSR is 445599 (E), 325108 (N). The site location (areas in red) is shown below in **Figure 1:1**.







- 1.8 The proposed works consist of the construction of highway infrastructure required to provide access and sufficient capacity to facilitate the main East Midlands Gateway 2 development. These works consist of the following:
  - Enlargement of A453 Hunter Road roundabout and private access to the main site;
  - Construction of a new roundabout on the A453 to provide alternative principal access to the main site (principal access alternative location);
  - Changes to Hyam's Lane;
  - A new Active Travel Link (footway/cycleway) from the A453 west of Finger Farm Roundabout running north parallel to the M1;
  - Widening of The Green at the A453 junction; and
- 1.9 For details, refer to the scheme drawing reference: EMG2-BWB-HGN-XX-DR-H-0101, revision P03, dated 16/01/2025 (**Drawing** \_) and EMG2-BWB-HGN-XX-DR-H-0102, revision P03, dated 16/01/2025 (**Drawing** \_).
- 1.10 The design life of the EMG2 scheme and its components is to be defined in accordance with the Design Manual for Roads and Bridges and is anticipated to be 120 years.

#### **Existing Works**

1.11 The key geotechnical risks that are envisaged for the project area are detailed in the updated Geotechnical Risk Register, included as **Appendix 5** of this report. The Geotechnical Risk Register will operate as a live document throughout the development of the project.



- 1.12 In summary, the main potential sources of geotechnical risk identified in this PSSR are as follows:
  - Potential for localised areas of soft and/or compressible superficial deposits (Alluvium and/ or Made Ground Deposits) at road alignment locations leading to differential or excessive settlements;
  - Potential for high water table / artesian conditions in the superficial Thrussington Till and/ or Bosworth Clay Deposits;
  - Inadequate consideration of construction sequencing;
  - Inadequate temporary works; and
  - Underground services.

#### **Geotechnical Category**

1.13 It is proposed that the Scheme is classified as Geotechnical Category 2 as defined in CD622 and BS EN 1997-1 Eurocode 7, as the proposed construction is not anticipated to comprise exceptional risks or abnormal loading conditions.



## 2. SOURCES OF INFORMATION, DESK STUDY AND REVIEW OF FINDINGS

#### General

- 2.1 Sources of geotechnical, geo-environmental, historical, design, as-built, and other information relevant to the scheme are listed below:
  - Geological and related mapping and reporting by the British Geological Survey:
    - o 1:50,000 geological map Sheet no. 141, Loughborough, Solid & Drift [Ref. 3].
    - o 1:10,000 geological map Sheet no. SK42NE, Solid and Drift [Ref. 4].
    - o 1:10,000 geological map Sheet no. SK42SE, Solid and Drift [Ref. 5].
    - o 1:625,000 Hydrogeological Map [Ref. 6].
  - Records available through the BGS online 'Geology of Britain viewer', including historic exploratory hole logs [Ref. 7] (Appendix 3).
  - Service / utilities records and drawings (Appendix 6).
  - Existing geotechnical investigation, design and/or As Built reports and assets available through the National Highways' Geotechnical and Drainage Management Service (GDMS).
  - Commercially/publicly available desk study information:
    - o Commercial geo-environmental searches from Groundsure® (Appendix 1)
    - Historical Ordnance Survey (OS) maps (Appendix 2)
    - o Aerial photographs (Google Earth)
    - Unexploded Ordnance (UXO) Risk Maps

#### Geotechnical and Drainage Management Service (GDMS)

2.2 The Geotechnical and Drainage Management Service (GDMS), formerly HAGDMS, was interrogated for geotechnical and geo-environmental investigations and reports.

#### Geotechnical and Geo-environmental Reports

2.3 130 engineering investigation and report records were obtained from GDMS, of which 4 have been deemed relevant to the EMG2 works addressed by this PSSR. These are summarised in **Table 2:1** below.

Table 2:1: GDMS Reports

GDMS No.	Scheme	Report	Author	Date
10508	A564 stoke-derby link Derby southern by-pass Isley Walton to M1 section	Factual Report On Preliminary Site Investigation	Exploration Associates (Warwick) Limited	~May 1981
18285	A42 Castle Donington North	Main Site Investigation Contract 2	Scott Wilson Kirkpatrick And partners	February 1985



3678 (1)	A42 Castle Donington	Ground Investigation	Soil August Mechanics 1988 Limited
and 3678	North	Contract 4	
9826	A42 Castle Donington North	Roadworks Geotechnical Design Report Contract 2: M1 Widening	Scott Wilson October Kirkpatrick 1988 And partners

2.4 A total of 14 reports from GDMS have been deemed relevant to the overall EMG2 development including the main site and all associated LCC infrastructure. Though not addressed in this PSSR, a list is included in **Appendix 7**.

#### **Drawings**

2.5 Scheme drawings referenced in this PSSR are listed in **Table 1:1** and are presented in the Drawings section of this report.

#### **Historic Exploratory Hole Records**

- 2.6 The British Geological Survey (BGS) provides access to historical exploratory hole and other records through the BGS Onshore Geolndex [Ref. 7]. Historical exploratory hole logs were also obtained from the sources listed in Section 2.1 of this PSSR.
- 2.7 Exploratory hole records referenced in this PSSR are included in **Appendix 3**. Existing exploratory hole locations are shown on the BGS Onshore GeoIndex website.

#### **Geotechnical Laboratory Test Data**

- 2.8 Geotechnical laboratory data is available for soil and rocks from the previous investigations noted above, included in **Appendix 4**. Tests typically comprised:
  - Moisture Content;
  - Atterberg Limits Classification;
  - pH, water soluble sulphate, acid soluble sulphate and/or total sulphur;
  - Particle Size Distribution determination;
  - Unconsolidated Undrained Triaxial Compression;
  - 1-D Oedometer Consolidation;
  - Triaxial Effective Stress;
  - Uniaxial Compressive Strength;
  - Point Load Index Testing.

#### **Project-specific Ground Investigation**

2.9 No project specific ground investigations have been completed up to date.



#### **Existing Services / Utilities**

- 2.10 Four services / utilities plans have been identified for the highway infrastructure associated with EMG2. The plans are presented in **Appendix 6**, namely:
  - 4069-UCL-DR-MU-FEA-001, Existing Utility Composite Drawing, East Midlands Gateway (Phase 2), Proposed Site Access Junction, Rev B, dated August 2024;
  - 4069-UCL-DR-MU-FEA-001, Existing Utility Composite Drawing, East Midlands Gateway (Phase 2), A453 Dualling Option, Rev B, dated August 2024;
  - 4069-UCL-DR-MU-FEA-001, Existing Utility Composite Drawing, East Midlands Gateway (Phase 2), A453 Footway/Cycleway Link, Rev B, dated August 2024; and
  - 4069-UCL-DR-MU-FEA-001, Existing Utility Composite Drawing, East Midlands Gateway (Phase 2), The Green Proposed Signal Junction, Rev B, dated August 2024.



#### 3. SITE DESCRIPTION

#### **Topography**

- 3.1 The general topography of the scheme area was reviewed from topographic surveys and aerial photography (imagery dated 2022, obtained from Google Earth). A summary is provided in **Table 3:1**.
- 3.2 The EMG2 works addressed in this PSSR are summarised below:
  - The A4543 EMG2 access junction and alternative principal access sites comprise approximately 370m and 280m length of the A453 respectively, south of East Midlands Airport (EMA) and Pegasus Business Park, both c. 87m AOD;
  - The section of the Active Travel Link covered by LCC consists approximately 600m. It runs alongside Ashby Road (A453) from east of the A4543 EMG2 access junction (90m AOD) and curves up to continue alongside Ashby Road North, (78m AOD);
  - Hyam's Lane works consists of 1.16km of road including works on the Hyam's Lane/Grime Gate junction (69m AOD), the majority of the existing lane that runs through the main site, and an extension to connect it to the A4543 EMG2 access junction (92m AOD);
  - The A453/The Green junction comprises a T-junction to the very west of site still south of EMA, and c. 82m AOD.
- 3.3 A small stream appears to run under the A453/The Green junction.
- 3.4 The surrounding land uses are summarised in **Table 3:1.**

Table 3:1 Surrounding Land Use

Surrounding land Use	
North	Hedging with a small path running parallel to the A453. More vegetation and grassland behind, with EMA and Pegasus Business Park adjacent.
East	Donington Park Services and surrounding shrubland and pond. This backs onto the A42 and M1, with fields behind. To the northeast the M1 continues along with the A453 (north).
South	Diseworth is located to the southwest with Diseworth Brook running through and continuing south of site. The land directly south is agricultural with a road running east-west.
West	Primarily agricultural land.



#### Geology

#### Overview

- 3.5 Information published by the British Geological Survey (BGS) shows localised Made Ground underlying sections of the Active Travel Link and A42, with an additional three small patches of Worked Ground within the main site (see p104 **Appendix 1**).
- 3.6 BGS data records show much of the EMG2 site and area north of site to be absent of superficial deposits including most of the A453 and the southern half of Hyam's Lane. The northern half of Hyam's Lane is underlain by Glaciofluvial Deposits (Sand And Gravel) and Oadby Member (Diamicton). The A453/The Green junction is underlain by Alluvium with patches of Head (clay, silt, sand and gravel) also in close proximity to the main site. (see p117 **Appendix 1**).
- 3.7 It is emphasised that the presence and location of superficial deposits is inherently more variable than that for the solid geology, and some variation in the location and extent of these soils is to be expected.

#### **Bedrock Deposits**

- 3.8 The bedrock underlying the majority of the project works is indicated to comprise of Gunthorpe Member (Mudstone) (see p108, **Appendix 1**). However, Gunthorpe Member (Siltstone, Dolomitic) underlies parts of the Active Travel link and Hyam's Lane, and Diseworth Sandstone underlies the southwest send of Hyam's Lane.
- 3.9 Five inferred faults are mapped onsite with a further eight within approximately 500m.

#### **BGS** Boreholes Logs

- 3.10 BGS boreholes relevant to A453 EMG2 access junction and the alternative principal access are summarised as having topsoil to 0.25m; over 5.12m of firm to hard silty brown or grey-green clay; underlain by bedrock of stiff thinly fissured friable red-brown mudstone recorded as shallow as 1.60m below ground level (bgl) (SK42NE578) and slightly weathered moderately strong grey green siltstone at 4.60m bgl (SK42NE512). Made ground of weak tarmac over slightly gravelly clay was recorded instead of topsoil for one borehole (SK42NE578). Groundwater strike was encountered once at 5.50m bgl and another borehole recorded seepage at 3.90m bgl.
- 3.11 Three BGS boreholes in proximity to the Active Travel Link recorded topsoil to 0.20m; over soft to very stiff red brown sandy or silty clay to 5.00m with some siltstone/mudstone lithorelicts and multiple bands of highly weathered mudstone or siltstone from 2.50m 4.50m bgl. One borehole recorded greenish grey in parts thinly laminated siltstone at 2.20m bgl. No groundwater strikes were recorded.
- 3.12 There are two BGS boreholes within 300m of the 1453/The Green junction both recorded turf over topsoil to approximately 0.35m but vary below this. SK42NE185 is underlain by thin layers of alternating light brown silty slightly clayey sand and stiff becoming firm red brown silty sandy clay to 2.40 bgl, which is underlain by firm to stiff red brown clay with occasional thin layers of siltstone to 7.00m bgl; over reddish brown and sometime grey



green fine grained very thinly bedded highly improving to moderately weathered silty mudstone to 10m bgl. Comparatively, SK42NE186 is underlain by firm becoming stiff brown to light brown silty sandy clay to 2.35m bgl; over dense brown clayey very sandy gravel to 5.30m bgl; underlain by reddish brown silty clay matrix with gravel to 6.0m bgl. Water strike was encountered in SK42NE185 at 4.50m bgl.

3.13 Though not relevant to the current scheme, there are additional BGS boreholes located at East Midlands Airport, along the M1, A42 and A453 close to the main EMG2 site and remaining associated developments, as shown in **Table 3:2.** 

Table 3:2 BGS Boreholes for EMG2 main site and associated developments

Table 5.2 BOS Borelloles for EMOZ IIIali		io toto pittoriio
Report	Boreholes	location
Birmingham - Nottingham Route A42 Castle Donington North Main Site Investigation Contact 2	16 Boreholes	On east of main site and east/northeast/southeast of site
M1 Widening Junction 21 to 30 Preliminary GI Contract 2	4 Boreholes	On east of main site and northeast/southeast of main site
A564 Stoke-Derby Link Derby Southern By Pass Isley Walton to M1 Section Preliminary Site Investigation	5 Boreholes	West/northwest/northeast of main site
East Midlands Airport Balancing Area Site Investigation	2 Boreholes	Northwest of main site

#### Third Party Investigation Logs

3.14 There are no third-party investigation logs relevant to the site.

#### Groundwater

3.15 Groundwater strikes were recorded between 3.40m and 17.00m bgl in the boreholes referenced by this PSSR.

#### Hydrogeology

#### <u>Aquifer Designation</u>

- 3.16 The Environment Agency (EA) classifies the Glaciofluvial Deposits as Secondary A Aquifers. Secondary A Aquifers are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.
- 3.17 The Oadby Member and Head are undifferentiated Secondary Aquifers, which have been assigned in cases where it has not been possible to attribute either a Secondary A or B category to a rock type.



- 3.18 The Glaciolacustrine Deposit is an unproductive stratum, defined as rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.
- 3.19 The Gunthorpe Member (Mudstone), Gunthorpe Member (Siltstone) And Diseworth Sandstone (Sandstone) are categorised as Secondary B Aquifers, defined as predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons, and weathering.
- 3.20 The site is not located within an EA designated Source Protection Zone. The site lies within the Soar Secondary Combined Water Framework Directive Groundwater Body which recorded a good chemical and overall rating in 2019.

#### BGS Borehole Data

3.21 The BGS boreholes that recorded groundwater strikes and seepage between 2.50m and 5.50m bgl.

#### Third Party Ground Investigation Data

3.22 There are no third-party investigation logs relevant to the site.

#### Abstractions, Discharge Consents and Pollution Incidents

- 3.23 There are two active abstraction licenses listed within 2km of the site. They are for general farming and domestic use and spray irrigation. Both are located at Whatton House approximately 1250m east of site (12/05/1966).
- 3.24 There are no current discharge consents to groundwater within 2km of site.

#### Groundwater Flooding

3.25 The site is located within an area with a negligible to moderate risk of flooding.

#### Hydrology

#### Surface Water Features

3.26 Diseworth Brook tributaries flow near to the A453/Green junction and 250m west of the alternative principal access site into the Diseworth Brook southwest of site. Both works also have small ponds within 100m northwest and northeast respectively.

#### Abstractions, Discharge Consents and Pollution Incidents

- 3.27 There are no active abstraction licenses listed within 2km of the site.
- 3.28 There are two active offsite discharge consents 260m west of the principal access alternative site relating to trade discharges (site drainage) from East Midlands Airport into



- Whatton Brook or its tributaries (20/01/1995 and 24/05/1999). Groundsure reports four, however one is erroneously repeated, and one is an updated permit.
- 3.29 There is one active off-site discharge consent relating to site drainage (contaminated surface water) into the Long Whatton Brook and River Trent within 500m of the site.
- 3.30 Three pollution incidents are listed within 500m of the site. Two of which involved kerosene and aviation fuel in 2002, one 180m west of Hyam's Lane causing minor impact on water and one 400m northwest of the principal access alternative location causing significant impact on water. The final incident involved oil and fuel oils 255m north of site, in 2003 again causing minor impact on water.

#### Surface Water Flooding

3.31 The site is not indicated to lie within a Zone 2 or 3 flood zone. However, an elevated risk is recorded west of the Active Travel Link and along the Diseworth Brook tributaries including at the A453/the Green junction and west of Hyam's Lane.

#### **Ground Instability Risk**

- 3.32 Natural ground instability risks are anticipated to be low to negligible across most of the site due to competent soils. Risks are expected to be localised in areas of made ground or alluvium associated with existing surface water features. Risk designations from Groundsure mapping (**Appendix 1**) and inferences from an overview of existing exploratory hole logs, are summarised below:
  - The site is not located within an area associated with coal mining.
  - A presumed infilled pond is recorded just north of Hyam's Lane where it is planned to be extended.
  - Potential for shrinkage and swelling through change in water content is expected to be negligible to very low for the majority of site. With a section of Hyam's Lane and the A453/The Green junction showing a low hazard.
  - Potential for freeze/thaw sensitivity is expected to be low in both superficial deposits and solid geology.
  - Potential for running sands is anticipated to be negligible to very low within bedrock, although there is a low risk within Alluvial strata.
  - The risk of soil collapse is very low across the site. There is low risk of landslides on a small section of the Active Travel Link, the rest of the site presents a very low risk. The alluvium underlying the A453/The Green junction present the only moderate risk of compressibility.

#### Historical Land Use

3.33 Historical Ordnance Survey (OS) mapping for the site area has been reviewed. These maps and plans date from 1884 to 2024. The historical plans reviewed are provided in **Appendix 2**. The key points of the historical development of the site and surrounding area are summarised in **Table 3:3**. All distances quoted are approximate.



Table 3:3 Key Characteristics of Historical Development

Dates	On Site	Off Site
1884 - 1921	The earliest site plans show the main site as largely undeveloped agricultural land. By 1921, a pit with pump is shown where Hyam's Lane is planned to extend northward.	The majority of the surrounding area is agricultural fields with the village Diseworth to the southeast of site, including a BRICK WORKS (250m) and GRAVEYARDS (200m and 350m).  An OLD GRAVEL PIT is shown 50m southeast of the modern-day A453/The Green junction.  The Diseworth Brook flows west to east, 300m to the south of site. With a ditch also flowing away from site 260m south of Hyam's Lane.  Two small ponds are located north of Hyam's Lane, one of which is presumed INFILLED by 1921.
1962- 1967	The pit with pump is now labelled a pond.  Another small <b>pond</b> is shown in the northeast of site.	Two <b>ponds</b> are located 100m south of Hyam's Lane.  A disused airport is shown directly north of site. By 1966 it is labelled <b>EAST MIDLANDS AIRPORT</b> .  By 1967, the <b>M1</b> has been constructed east of site.
1971- 1988	The A5129 is shown (relabelled A453 by 1980), overlaying the small pond in the northeast which is presumed <b>INFILLED</b> .	By 1980 the ponds south of Hyam's Lane are shown as pits with a mound in between. By 1988 two <b>ELECTRICAL SUB STATIONS</b> are noted 200m and 400m northeast of modern day A453/The Green junction.
1991- 1994	No significant change.	Both Finger Farm roundabout and Junction 23A has been constructed and appears much as it does today.
2001- 2024	By 2001, the EMG2 access junction is shown. By 2024, the pond north of Hyam's Lane is not shown and presumed INFILLED.	By 2010, two <b>ponds</b> appear 300m south of the Active Travel Link, by the service station. By 2024, a <b>PETROL STATION</b> is shown 250m south of the Active Travel Link, as part of Donington Park services.

#### Historical Aerial Photography and Imagery

3.34 Aerial photographs/imagery available through Google Earth and included within the Groundsure report show the site in the same layout at the time of writing.

#### **Operational / Company Records**

3.35 No operational records have been made available for review as part of this assessment.



#### **Planning History**

3.36 The North West Leicestershire District Council Planning Portal was accessed on 19th December 2025. No pertinent environmental information was available for review in relation to the site.

#### Internet Search / Anecdotal Information

- 3.37 An online search for historical information showed that the area north of site housed RAF Castle Donington from 1943-1946 before it fell into disuse. It was then in operation as East Midlands Airport from 1965 onwards (www.heritagegateway.org.uk, last accessed 24/01/2025).
- 3.38 Anecdotal information provided during nearby surveying indicated that the reservoir approximately 800m west of the A453/The Green junction stores surface water from EMA and therefore risks containing de-icing agents. This water is indicated to be slowly released into the local Diseworth Brook tributary during the summer.

#### **Coal Mining**

3.39 The site is not located within a coal mining reporting area.

#### **Mining and Mineral Extraction**

3.40 The site is not located within an area associated with coal mining.

#### **Historical Land Waste Management**

- 3.41 A full listing of EA, BGS and Local Authority recorded landfills are provided in the Groundsure report presented in **Appendix 1**.
- 3.42 One historical EA landfill site is located 160m northwest of Hyam's lane, near Grimes Gate. It was reported to have received inert, industrial, commercial and household waste between 1960 and 1970. It is not considered to represent a ground gas risk due to time elapsed since it was last active. The likelihood of landfill leachate impacting on the local groundwater quality is likely to be minimised by the cohesive natural soils in this area.
- 3.43 There are 79 waste exemptions located within 500m of the site, many of which are agricultural, including: burning of waste in the open; storage of waste is a secure place; use of waste in construction; treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising; deposit of agricultural waste consisting of plant tissue under a Plant Health notice; use of mulch; aerobic composting and associated prior treatment; deposit of waste from dredging of inland waters; treatment of non-hazardous pesticide washings by carbon filtration for disposal; cleaning, washing, spraying or coating relevant waste; and spreading of plant matter to confer benefit.
- 3.44 Waste exemptions are required for handling small quantities of waste (below the thresholds of waste permitting legislation) or for low-risk waste management activities. Therefore, BWB do not consider them to represent a significant risk to the site.



#### **Unexploded Ordnance (UXO) Risk**

3.45 Regional risk maps accessed online from the Zetica website indicate the potential of UXO is low risk within the site boundary.

#### **Ground Gas**

- 3.46 The localised alluvium under the A453/The Green junction and area south of site in addition to the infilled ponds identified in **Table 3:3** represent possible sources of ground gas. Therefore, a ground investigation is required to determine the ground gas regime on site.
- 3.47 The site is located in an area where less than 1% of properties are affected by Radon. Radon protection measures are not required as part of the proposed development.



#### 4. SITE RECONNAISSANCE

#### Site Walkover and description

4.1 A visual inspection will be undertaken for all areas proposed for ground investigation by a suitably qualified geotechnical engineer or engineering geologist. No earthworks (embankments or cuttings) are present on the site. The additional ground investigation is discussed in section 8.

#### **Recent Ground Investigations**

EMG2 Phase 2: Factual Report on Ground Investigation

- 4.2 An initial phase of ground investigation for the main EMG2 site was undertaken by Structural Soils Ltd. in 2023. This included 27 borehole logs, 28 cable percussion borehole logs and 39 trial pit logs covering the main EMG2 site.
- 4.3 Boreholes CP05, CP02 and BH01 are located <50m of the A453 EMG2 access junction and alternative principal access. In summary, they recorded topsoil to 0.35m; over of stiff to very stiff reddish brown sandy/gravelly clay to 6.16m bgl; over extremely weak to weak reddish-brown mudstone with pockets of grey siltstone or occasionally grey clay down to 23.48m bgl; over weak to medium strong reddish-brown fine to medium grain silty sandstone to 24.12m bgl; underlain by extremely weak to weak reddish-brown medium grain mudstone with frequent bed of grey sandstone to >30.75m bgl. No groundwater was encountered or could not be determined due to the flush method used.
- 4.4 Boreholes/trial pits close to Hyam's Lane recorded mostly topsoil to 0.30m; over probable glacial clays to 10.24m bgl; overlaying very/extremely weak reddish-brown mudstone to >23m bgl. However, the thickness of the clay strata beneath the topsoil varied greatly between 2.90m and 15.7m before either bedrock or other strata. Similarly, mudstone was encounters ranged from 3.20m bgl (TP16) to 16.84m bgl (BH12). Layers of sand and/or silt were also encountered in the three of the boreholes. The deepest borehole (BH12) recorded alternating siltstone and mudstone at the very end of the hole from 22.16m to 20.80m bgl. Groundwater strikes were at 17.00m bgl (CP04) and 13.40m bgl (CP07).

Ground Investigation at Land South of East Midlands Airport, Factual Report

- 4.5 A second ground investigation was undertaken for the area of the main EMG2 site north of Hyam's Lane by Geotechnics Ltd. in 2024. This included 5 windowless sampling boreholes, 12 trial pits and 8 cone penetration tests.
- 4.6 The boreholes can be summarised as recording topsoil of very soft/soft dark brown slightly gravelly sandy clay to 0.35m bgl; over light brown becoming reddish-brown slightly gravelly sandy clay to 9.80m bgl; over extremely weak reddish-brown mudstone to >10.18m bgl. Groundwater strikes were encountered at 9.30m bgl (BH01) and 8.30m bgl (BH03).



#### 5. GROUND CONDITIONS

#### General

- 5.1 Available existing ground investigations and reports have been reviewed to provide a general overview of ground conditions in the wider area and allow the preparation of preliminary ground models for the site.
- 5.2 In absence of site-specific data, a typical borehole within 50m of site has been used to base the typical ground profiles on, with presumed hardstanding and made ground:

Table 5:1: Typical Ground Model – Central and Eastern Site

Table 5.1. Typical Globia Model Cellial and Easiern Sile				
Stratum	Typical Profile	Description		
Hardstanding	0.0m to 0.3m (base not proven)			
Made Ground	0.3m to 0.8m (base not proven)			
Mercia Mudstone Group (Clay)	0.8m to 3.5m (base not proven)	Brown or reddish brown silty very sandy clays		
Weathered Mercia Mudstone Group (Siltstone)	3.5m to 6m (base not proven)	Gravelly clayey sand and slightly gravelly, sandy silty clay with frequent lithorelicts.		

Table 5:2: Typical Ground Model – Western site

Stratum	Typical Profile	Description
Hardstanding	0.0m to 0.3m (base not proven)	
Made Ground	0.3m to 0.8m (base not proven)	
Oadby Member or Glaciofluvial deposits	0.3m to 0.9m	Slightly sandy, silty, gravelly clay or slightly silty, slightly gravelly, sandy clay
Weathered Mercia Mudstone Group (Clay)	0.90 to 5.8m (base not proven)	Reddish brown silty clay
Weathered Mercia Mudstone Group (Mudstone)	5.8m to 10m (base not proven)	Gravelly clayey sand and slightly gravelly, sandy silty clay with frequent lithorelicts.



#### **Derivation of Anticipated Parameter Values**

5.3 Anticipated material parameter values have been summarised based on existing historical information, Design Reports, and Geotechnical Feedback Reports. These have been considered with reference to published information, soil and rock descriptions, empirical correlations with available data and laboratory test results. The process of interpretation of various key soil and rock parameters is summarised below.

Table 5:3: Parameter Derivation Methodology

Parameter	Symbol	Date Date				
Unit Weight	Υ	Unit weights of soil and rock may be derived from Figures 1 and 2 in BS 8002:2015 Code of Practice for Earth Retaining Structures, based on material descriptions.				
Bulk and Dry Density	γb, γd.	Bulk and dry densities of soil and rock may be derived from Figures 1 and 2 in BS 8002:2015 Code of Practice for Earth Retaining Structures, based on material descriptions.				
Effective Angle of Shearing Resistance	φ'	For coarse grained soils (sands, gravels), correlations with particle size distribution data and material descriptions may be adopted in accordance with Table 1 of BS 8002 [Ref. 8].				
		For fine grained materials (clays), correlations with plasticity index (PI) are available in accordance with Table 2 of BS 8002 [Ref. 8].				
		φ' in rocks may be assessed based on values published in Rock Slope Engineering by Hoek & Bray (3rd Edition, 1981).				
Apparent effective cohesion	C'	In coarse grained soils where drained conditions are assumed to dominate, a c' of zero is recommended for design.				
Undrained Shear Strength	Cu	Undrained shear strength is relevant to fine grained soils (clays). Correlations between plasticity index (PI) and SPT 'N' value may be used to infer undrained shear strength using Figure 31 in CIRIA Report 143 [Ref. 9] according to Stroud (1979).				
		Where plasticity index information is not available, a lower bound correlation of $c_0 = 4.5 \text{ x SPT 'N'}$ value may be adopted.				
Coefficient of compressibility	m <sub>v</sub>	Compressibility and stiffness typically show a wide scatter in published correlations. A moderately conservative assumption of mv = 1/N may be adopted for soils based on CIRIA Report 143 [Ref. 9]. Historical laboratory test data is also available.				
Unconfined Compressive Strength	UCS	UCS may be estimated based on published correlations with rock descriptions. Historical laboratory test data may also be available.				
Young's Modulus (drained and undrained)	E' Eu	Compressibility and stiffness typically exhibit a wide scatter in published correlations. A moderately conservative assumption of E = N may be adopted for soils based on CIRIA Report 143 [Ref. 9]. Published correlations with $c_{\text{\tiny U}}$ (E=100 $c_{\text{\tiny U}}$ ) may also be used for comparison.				
Poisson's Ratio	٧	Poisson's Ratio for soils and rocks is typically assumed to be between 0.2 and 0.3. Poisson's Ratio in undrained conditions is equal to 0.5.				



#### **Preliminary Characteristic Parameter Values**

5.4 A summary of preliminary characteristic engineering parameter values is presented below. It is anticipated that these may be refined at later project stages within future Geotechnical Interpretative Report(s) (GIR) and Geotechnical Design Report(s) (GDR).

Table 5:4: Summary of Prelim. Anticipated Ranges for Characteristic Parameter Values

Stratum	Unit Weight,	Effective Angle of Friction, $\phi$	Effective Cohesion, c'	Undrained Shear Strength, cu	Coefficient of Compressibility, m <sub>v</sub>
	kN/m³	deg	kN/m²	kN/m²	MN/m²
Made Ground	19	27	0	100	0.08
Glaciofluvial Deposits	21	26		28-355	0.03-0.36
Mercia Mudstone (clay)	21	30	0	50-300	0.06
Weathered Mercia Mudstone Group	21	30		50-300	0.06

 $<sup>^{1}</sup>$  Unlikely to be encountered and if found is proposed to be removed and replaced. z = depth below 2m bgl.



#### 6. PRELIMINARY ENGINEERING ASSESSMENT

#### General

- 6.1 The information contained within this PSSR indicates there are no unusual geotechnical hazards anticipated in relation to the design and construction EMG2 infrastructure relating to LCC.
- 6.2 Key artificial obstacles anticipated from this review of the site history include:
  - Existing services and their modification (particularly the HV electricity pylon towards the south of the proposed southbound merge slip-road).
- 6.3 The above is not likely to present an insurmountable obstacle to the proposed scheme.
- 6.4 Preliminary engineering assessments presented in this section comprise:
  - Cuttings and embankments;
  - Re-use of site-won materials;
  - Retaining structures;
  - Culvert extension;
  - Traffic sign foundations;
  - Geo-environmental considerations; and
  - Concrete in aggressive ground.

#### **Cuttings**

- 6.5 The specific extents and geometries of new cuttings are unknown at this stage; the majority of site work will involve raising site levels to allow construction of the additional on- and off-slip roads.
- 6.6 It is anticipated that slopes will be specified at a maximum gradient of 1:3 (V:H) for ease of maintenance.
- 6.7 Slopes of 1:3 (V:H) are considered reasonable as a rule of thumb for future cut slopes, subject to detailed design to modern standards and noting that material anticipated in new cuttings is likely to be competent superficial soils. Care should be taken to assess the site-specific anticipated ground conditions and slope stability in areas of significant cut.

#### **Embankments**

- 6.8 Embankment slopes of 1:3 (V:H) are considered reasonable as an initial guide for future embankments constructed of site-won materials or other acceptable granular or cohesive fill subject to detailed design to modern standards.
- 6.9 Care should be taken to assess the site-specific anticipated ground conditions, slope stability and long-term settlements under new embankments.



6.10 Where Alluvial clays are present beneath the location of new proposed embankments it is proposed this is removed prior to construction. Alluvial material may be suitable for re-use as landscape fill subject to suitability testing and potentially treatment.

#### Re-use of site-won materials

- 6.11 Site-won materials obtained from cuttings or excavations for foundations and drainage are likely to be suitable for utilisation in the construction of general earthworks subject to suitability testing on the specific material.
- 6.12 Alluvial soils are unlikely to comprise a significant proportion of site-won material but may be present in and around streams. Alluvial materials are likely to be suitable as Class 2B or 2C (wet cohesive or stony cohesive) General Fill, subject to suitability testing on the specific material.

#### **Retaining structures**

- 6.13 It is currently envisaged that a small retaining wall is likely to be required where the new southbound on slip road is to be constructed with an overhead electricity pylon.
- 6.14 Preliminary discussions have been held with National Grid, and it is currently proposed that a sheet pile wall will be constructed, although the retained maximum height is anticipated to be less than 2m.
- 6.15 Retaining structures will be subject to detailed design following ground investigation works

#### **Culvert Extension**

- 6.16 A culvert currently exists under the M69 at the south of the scheme, and the construction of the proposed new slip roads is likely to require existing embankments in this area to be widened, and a consequent addition to the length of the culvert.
- 6.17 The additional works to the culvert will be subject to detailed design following ground investigation works in the area.

#### **Gantry/ Signage Foundations**

- 6.18 The construction of the additional slip roads at Junction 2 will require additional signage to be constructed, which will require foundations.
- 6.19 The design of foundations for signage and other small structures will be subject to detailed design following ground investigation works.

#### **Geo-Environmental Considerations**

6.20 There are no known contamination or gas sources within the area of the works. Records indicate that earthworks and construction utilised locally sourced materials, and landfills and other potential off site sources are remote from the works.



6.21 A ground investigation will be undertaken which will investigate the fill and natural materials that are to be involved in the proposed works, and any area of potential contamination will be targeted and subjected to appropriate testing. Any contamination or gas issues will be mitigated as part of the detailed design.

#### **Concrete in Aggressive Ground**

- 6.22 The natural soils in the area, and the fill derived from them, are not believed to pose any particular problems in relation to buried concrete.
- 6.23 A limited ground investigation, undertaken by Hydrock in 2019, was completed within the SRFI site a few hundred metres north of the proposed National Highways works.
- 6.24 Testing of recovered samples for BRE SD1 analysis indicated DS-1 AC-1 conditions to exist at the site, which increased to DS-2 AC-2 where groundwater is encountered.
- 6.25 Testing for the potential for aggressive ground conditions in relation to buried concrete will be undertaken as part of the future proposed ground investigation works.



#### 7. PROJECT OPTIONS AND RISKS

- 7.1 The preliminary Geotechnical Risk Register is presented in **Appendix 6**.
- 7.2 In summary, the main potential geotechnical risks identified at this stage are as follows:
  - Cut and Fill operation working parallel to the live M69;
  - Potential for localised areas of soft and/or compressible superficial deposits (Alluvium and/ or Made Ground Deposits) at new earthworks and road alignment locations leading to differential and/ or excessive settlements;
  - Potential for high water table / artesian conditions in the superficial Thrussington Till and Bosworth Clay Deposits;
  - Slope instability / variable ground conditions associated with upgrading and constructing embankments associated with the new junction;
  - Inadequate consideration of construction sequencing;
  - Inadequate temporary works; and
  - Underground services.
- 7.3 It is proposed that the Scheme is classified as Geotechnical Category 2 as defined in CD622 and BS EN 1997-1 Eurocode 7 as the proposed construction is not anticipated to comprise exceptional risks or abnormal loading conditions. CDM (2015) Regulations will apply to the project due to the scope, size, and nature of the works.
- 7.4 Specific key project options to consider include:
  - The potential for soft ground and approach to re-use of materials.
  - Requirements for design of pavement sub-base and structure foundations in areas of fill.
- 7.5 Mitigation measures recommended for the next stage of works include:
  - A targeted ground investigation prior to detailed design (see Section 8 below).



#### 8. GROUND INVESTIGATION SCOPING

#### General

- 8.1 A review of the existing ground investigation information has been undertaken for the site.
- 8.2 There is a paucity of existing ground investigation data available for this scheme section, which means that further investigation in advance of detailed design is anticipated to be both exploratory and confirmatory.
- 8.3 Targeted geotechnical ground investigation at the location of key structures is recommended to reduce project risk. BWB considers the requirement for further ground investigation to inform:
  - Development Consent Order (DCO) process and decisions; and
  - Detailed design of geotechnical and roads elements.
- 8.4 The ground investigation scoping process will be presented in detail in BWB's forthcoming Ground Investigation Scoping Report (GISR).

#### **Hinckley RFI Investigations**

- 8.5 There is currently limited existing ground investigation information for the scheme, although the range of ground conditions and geotechnical risks are somewhat understood. Intrusive investigations are currently planned to progress the SRFI development and inform the detailed design of the scheme including the related infrastructure.
- 8.6 Further investigation will be required prior to detailed design of the proposed scheme, as outlined below.

#### **Detailed Design Investigations**

- 8.7 Ground investigations are recommended to inform detailed design of the proposed works (details to be provided in the GISR, refer to Annex A for further information). The objects of the proposed ground investigation are to:
  - Confirm ground conditions at the location of key structures;
  - Establish ground conditions in areas of new roads, new cuttings, or embankments, retaining structures, culverts, or other structures (within the areas requiring highway improvements under the control of National Highways and, separately, Leicestershire County Council);
  - Assess the groundwater regime;
  - Assess suitability of site-won material for re-use;
  - Assess potential susceptibility to freeze-thaw heave where such potential is identified;
  - Screen for common contaminants in shallow soils; and



- Inform pavement design, including:
  - Assess stiffness of the subgrade to confirm requirements for new pavement construction.
- 8.8 A visual inspection of embankments and cuttings at locations of exploratory holes is recommended by a suitably qualified geotechnical engineer or engineering geologist. It is recommended this is coordinated during ground investigation works to take advantage of traffic management and safe access to slopes, as well as potential localised vegetation strips which will allow better access and visibility of the slopes.



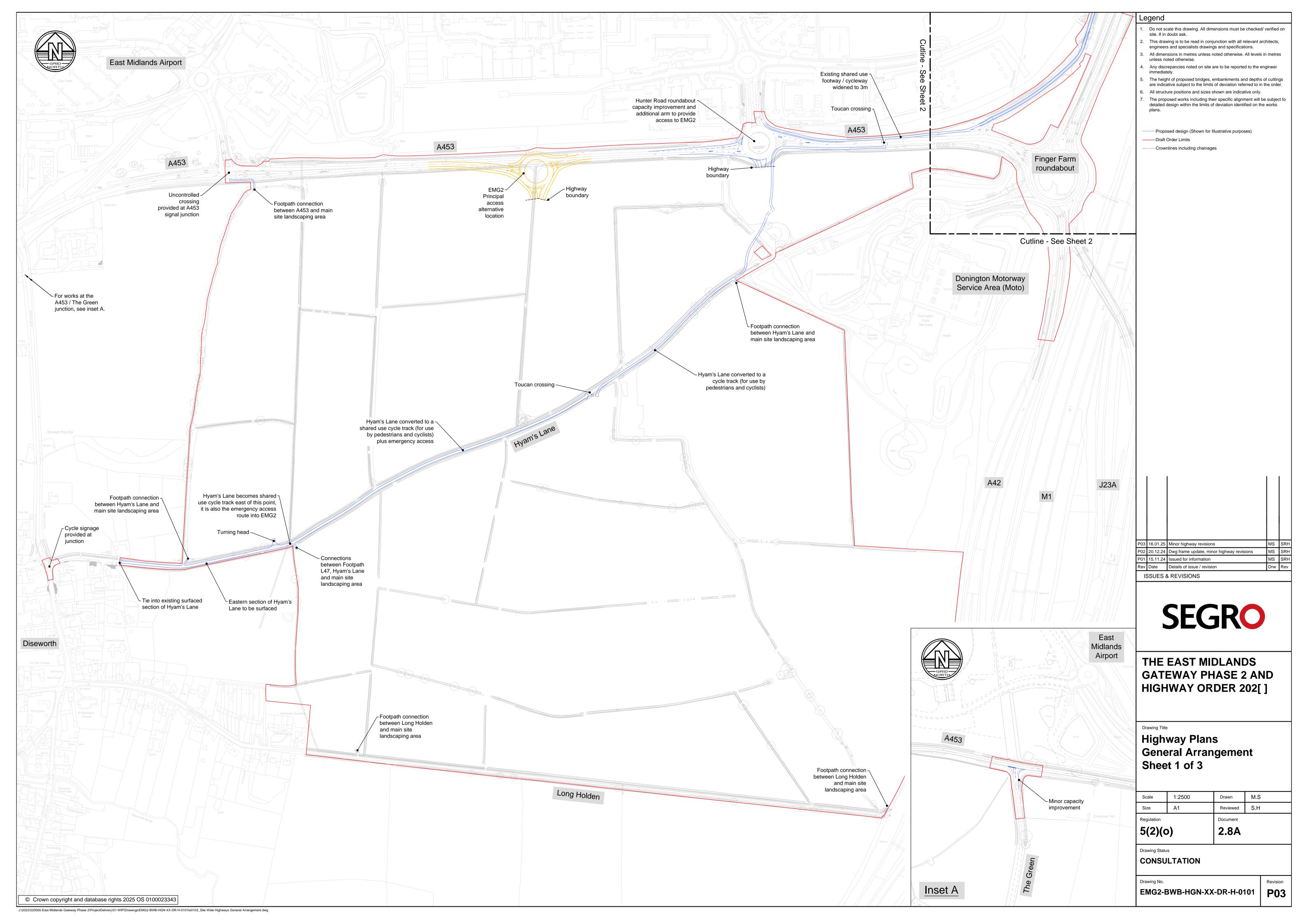
#### 9. REFERENCES

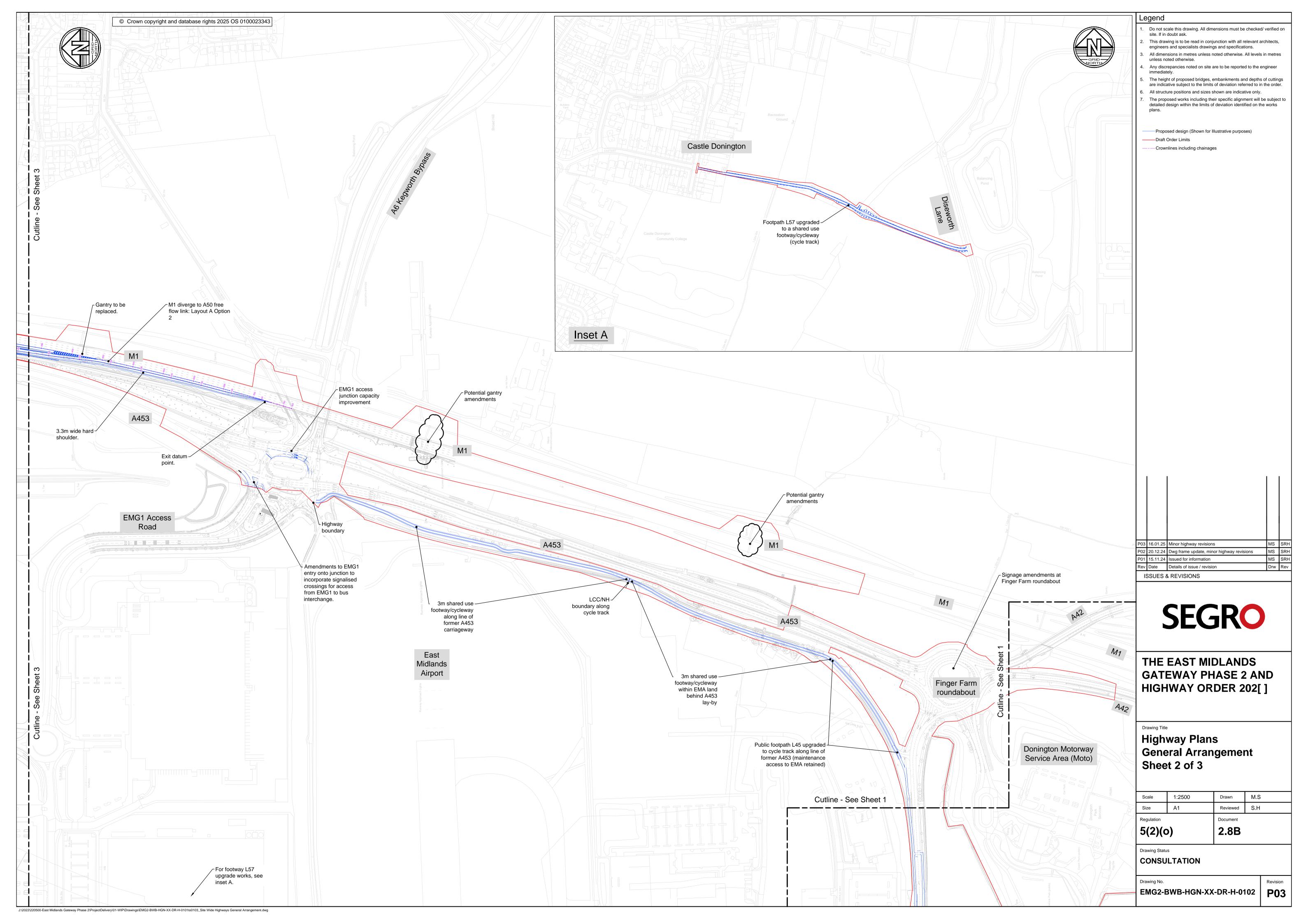
- 1. Design Manual for Roads and Bridges, CD 622, Managing Geotechnical Risk, March 2020, Revision 1.
- 2. British Geological Survey, 1:50,000 geological map Sheet no. 141, Loughborough, Solid & Drift, dated 2001.
- 3. British Geological Survey, 1:10,000 geological map Sheet no. SK42NE, Solid and Drift, dated 1997.
- 4. British Geological Survey, 1:10,000 geological map Sheet no. SK42SE, Solid and Drift, dated 1997.
- 5. British Geological Survey, 1:625,000 Hydrogeological Map.
- 6. BGS Onshore Geolndex viewer, accessed December 2024/January 2025. https://mapapps2.bgs.ac.uk/geoindex/home.html
- 7. BS 8002:2015 Code of practice for earth retaining structures, Jun 2015
- 8. CIRIA Report R 143 The standard penetration test (SPT): methods and use: 1995

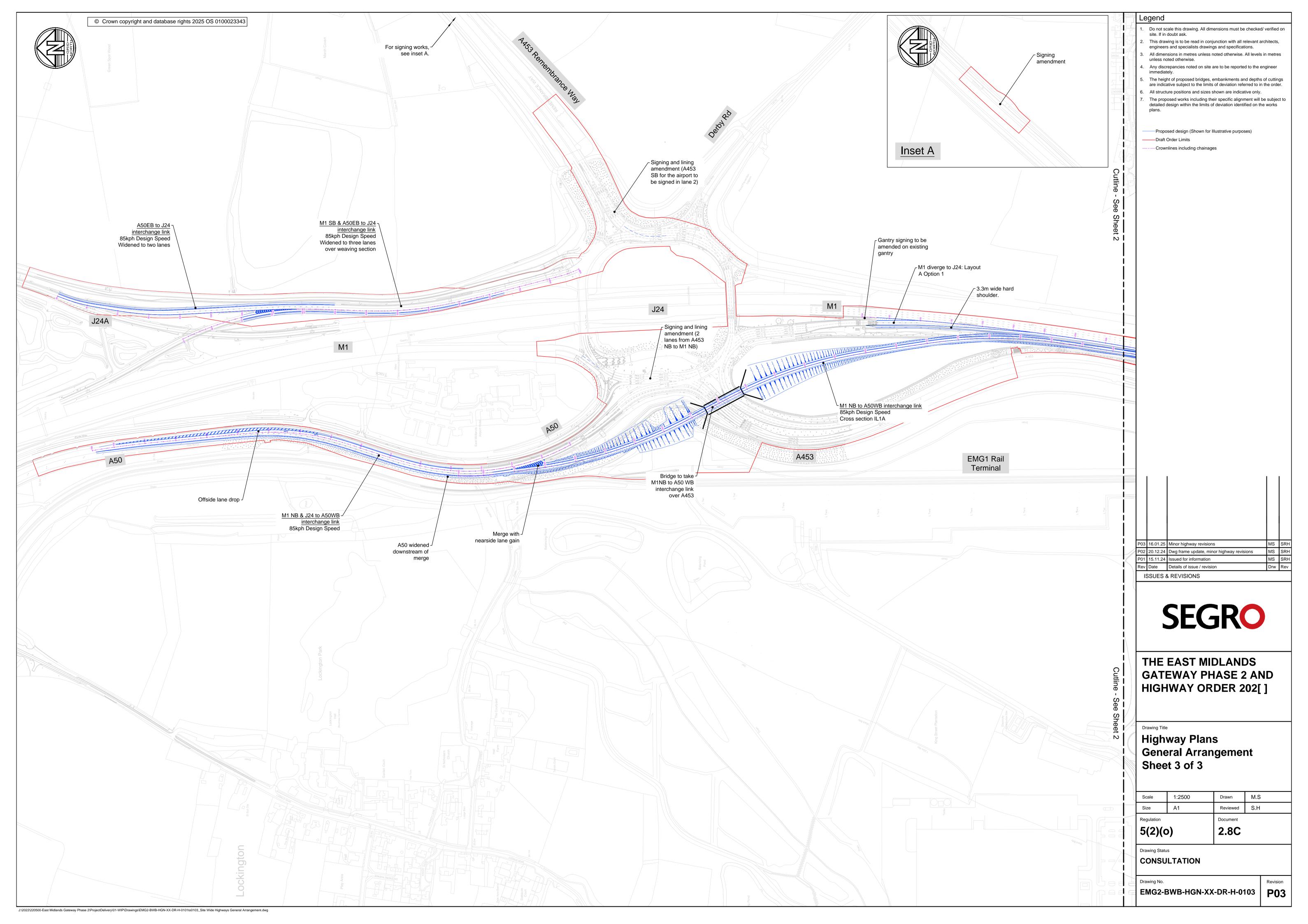
East Midlands Gateway 2**Error! Reference source not found.**Preliminary Sources Study Report Affecting Leicestershire County Council March 2025
EMG2-BWB-HGT-XX-RP-CE-003



## **DRAWINGS**







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## **APPENDICES**

East Midlands Gateway 2**Error! Reference source not found.**Preliminary Sources Study Report Affecting Leicestershire County Council March 2025
EMG2-BWB-HGT-XX-RP-CE-003



**Appendix 1: Groundsure Report** 



# Enviro+Geo

## East Midland Gateway, A453 (LCC Land)

## **Order Details**

Date: 13/12/2024

Your ref: 220500 - 10260

Our Ref: GS-DDN-E8C-BSV-RJY

## **Site Details**

446173 324940 Location:

Area: 109.18 ha

Authority: North West Leicestershire District



**Summary of findings** 

p. 2 > **Aerial image** 

p. 9 >

OS MasterMap site plan

N/A: >10ha

Insight User Guide 7





# **Summary of findings**

00							
Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
<u>14</u> >	<u>1.1</u> >	<u>Historical industrial land uses</u> >	8	10	18	12	-
<u>16</u> >	<u>1.2</u> >	<u>Historical tanks</u> >	0	1	12	11	-
<u>18</u> >	<u>1.3</u> >	<u>Historical energy features</u> >	0	2	6	10	-
19	1.4	Historical petrol stations	0	0	0	0	-
<u>19</u> >	<u>1.5</u> >	<u>Historical garages</u> >	0	0	3	0	-
19	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
<u>20</u> >	<u>2.1</u> >	<u>Historical industrial land uses</u> >	10	13	21	14	-
<u>23</u> >	<u>2.2</u> >	<u>Historical tanks</u> >	0	2	29	17	-
<u>25</u> >	<u>2.3</u> >	<u>Historical energy features</u> >	0	2	10	22	-
26	2.4	Historical petrol stations	0	0	0	0	-
<u>26</u> >	<u>2.5</u> >	Historical garages >	0	0	5	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
			On site	0-50m	50-250m	250-500m	500-2000m
Page	Section	Waste and landfill >					500-2000m - -
Page	Section 3.1	Waste and landfill >  Active or recent landfill	0	0	0	0	500-2000m - -
Page 28 28	Section 3.1 3.2	Waste and landfill >  Active or recent landfill  Historical landfill (BGS records)	0	0	0	0	500-2000m
Page 28 28 29	Section 3.1 3.2 3.3	Waste and landfill >  Active or recent landfill  Historical landfill (BGS records)  Historical landfill (LA/mapping records)	0 0	0 0	0 0	0 0	500-2000m
Page 28 28 29 29 >	Section  3.1  3.2  3.3  3.4 >	Waste and landfill >  Active or recent landfill  Historical landfill (BGS records)  Historical landfill (LA/mapping records)  Historical landfill (EA/NRW records) >	0 0 0	0 0 0 0	0 0 0	0 0 0	500-2000m
Page 28 28 29 29 29 >	Section  3.1  3.2  3.3  3.4 >  3.5	Waste and landfill >  Active or recent landfill  Historical landfill (BGS records)  Historical landfill (LA/mapping records)  Historical landfill (EA/NRW records) >  Historical waste sites	0 0 0 0	0 0 0 1	0 0 0 0	0 0 0 0	500-2000m
Page  28  28  29  29 >  29  29 >	Section  3.1  3.2  3.3  3.4 >  3.5  3.6 >	Waste and landfill >  Active or recent landfill  Historical landfill (BGS records)  Historical landfill (LA/mapping records)  Historical landfill (EA/NRW records) >  Historical waste sites  Licensed waste sites >	0 0 0 0 0	0 0 0 1 0	0 0 0 0 0	0 0 0 0 0	500-2000m 500-2000m
Page  28  28  29  29 >  29 >  31 >	Section  3.1  3.2  3.3  3.4 >  3.5  3.6 >  3.7 >	Waste and landfill >  Active or recent landfill  Historical landfill (BGS records)  Historical landfill (LA/mapping records)  Historical landfill (EA/NRW records) >  Historical waste sites  Licensed waste sites >  Waste exemptions >	0 0 0 0 0	0 0 0 1 0 0	0 0 0 0 0	0 0 0 0 0 3 97	- - - -
Page  28  29  29 >  29 >  31 >  Page	Section  3.1  3.2  3.3  3.4 >  3.5  3.6 >  3.7 >  Section	Waste and landfill >  Active or recent landfill  Historical landfill (BGS records)  Historical landfill (LA/mapping records)  Historical landfill (EA/NRW records) >  Historical waste sites  Licensed waste sites >  Waste exemptions >  Current industrial land use >	0 0 0 0 0 0	0 0 1 0 0 13	0 0 0 0 0 0 6	0 0 0 0 0 3 97	- - - -
Page  28  29  29 >  29 >  21 >  Page  41 >	Section  3.1  3.2  3.3  3.4 >  3.5  3.6 >  3.7 >  Section  4.1 >	Waste and landfill >  Active or recent landfill  Historical landfill (BGS records)  Historical landfill (LA/mapping records)  Historical landfill (EA/NRW records) >  Historical waste sites  Licensed waste sites >  Waste exemptions >  Current industrial land use >  Recent industrial land uses >	0 0 0 0 0 0 On site	0 0 1 0 0 13 0-50m	0 0 0 0 0 0 6 50-250m	0 0 0 0 0 3 97 250-500m	- - - -
Page  28  29  29 >  29 >  31 >  Page  41 >  47 >	Section  3.1  3.2  3.3  3.4 >  3.5  3.6 >  3.7 >  Section  4.1 >  4.2 >	Waste and landfill >  Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) > Historical waste sites Licensed waste sites > Waste exemptions >  Current industrial land use >  Recent industrial land uses >  Current or recent petrol stations >	0 0 0 0 0 0 On site	0 0 1 0 0 13 0-50m	0 0 0 0 0 6 50-250m	0 0 0 0 0 3 97 250-500m	- - - -





<u>72</u> >	<u>6.1</u> >	Water Network (OS MasterMap) >	9	9	43		
Page	Section	<u>Hydrology</u> >	On site	0-50m	50-250m	250-500m	500-2000m
71	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
70	5.9	Source Protection Zones	0	0	0	0	-
70	5.8	Potable abstractions	0	0	0	0	0
<u>70</u> >	<u>5.7</u> >	<u>Surface water abstractions</u> >	0	0	0	0	1
<u>67</u> >	<u>5.6</u> >	<u>Groundwater abstractions</u> >	0	0	0	0	10
66	5.5	Groundwater vulnerability- local information	None (with	in 0m)			
66	5.4	Groundwater vulnerability- soluble rock risk	None (with	in 0m)			
<u>61</u> >	<u>5.3</u> >	Groundwater vulnerability >	Identified (	within 50m)			
<u>59</u> >	<u>5.2</u> >	Bedrock aquifer >	Identified (	within 500m	1)		
<u>55</u> >	<u>5.1</u> >	Superficial aquifer >	Identified (	within 500m	1)		
Page	Section	<u>Hydrogeology</u> >	On site	0-50m	50-250m	250-500m	500-2000m
54	4.21	Pollution inventory radioactive waste	0	0	0	0	_
54	4.20	Pollution inventory waste transfers	0	0	0	0	-
54	4.19	Pollution inventory substances	0	0	0	0	-
<u>53</u> >	<u>4.18</u> >	Pollution Incidents (EA/NRW) >	0	1	2	1	-
53	4.17	List 2 Dangerous Substances	0	0	0	0	-
53	4.16	List 1 Dangerous Substances	0	0	0	0	-
53	4.15	Pollutant release to public sewer	0	0	0	0	-
52	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
<u>50</u> >	<u>4.13</u> >	<u>Licensed Discharges to controlled waters</u> >	4	4	0	4	-
50	4.12	Radioactive Substance Authorisations	0	0	0	0	-
<u>48</u> >	<u>4.11</u> >	Licensed pollutant release (Part A(2)/B) >	0	0	4	7	-
48	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
48	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
48	4.8	Hazardous substance storage/usage	0	0	0	0	-
48	4.7	Regulated explosive sites	0	0	0	0	_
47	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	_





<u>77</u> >	<u>6.2</u> >	<u>Surface water features</u> >	1	7	24	-	-
<u>78</u> >	<u>6.3</u> >	WFD Surface water body catchments >	2	-	-	-	-
<u>78</u> >	<u>6.4</u> >	WFD Surface water bodies >	0	0	0	-	-
<u>79</u> >	<u>6.5</u> >	WFD Groundwater bodies >	1	_	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
80	7.1	Risk of flooding from rivers and the sea	None (with	in 50m)			
80	7.2	Historical Flood Events	0	0	0	-	-
80	7.3	Flood Defences	0	0	0	-	-
81	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
81	7.5	Flood Storage Areas	0	0	0	-	-
82	7.6	Flood Zone 2	None (with	in 50m)			
82	7.7	Flood Zone 3	None (with	in 50m)			
Page	Section	Surface water flooding >					
<u>83</u> >	<u>8.1</u> >	Surface water flooding >	1 in 30 yea	r, Greater tha	an 1.0m (wit	hin 50m)	
Page	Section	Groundwater flooding >					
Page <b>85</b> >	Section <u>9.1</u> >	Groundwater flooding >  Groundwater flooding >	Moderate (	(within 50m)			
		-	Moderate (	(within 50m) 0-50m	50-250m	250-500m	500-2000m
<u>85</u> >	<u>9.1</u> >	Groundwater flooding >				<b>250-500m</b>	500-2000m
<u>85</u> >	<u>9.1</u> >	Groundwater flooding >  Environmental designations >	On site	0-50m	50-250m		
85 > Page	9.1 > Section 10.1	Groundwater flooding >  Environmental designations >  Sites of Special Scientific Interest (SSSI)	On site	0-50m	50-250m 0	0	0
85 > Page 86 87	9.1 > Section 10.1 10.2	Groundwater flooding >  Environmental designations >  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)	On site  0	0-50m 0	50-250m 0 0	0	0
85 > Page 86 87	9.1 > Section 10.1 10.2 10.3	Groundwater flooding >  Environmental designations >  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)	On site  0 0 0	0-50m 0 0	50-250m 0 0	0 0	0 0
85 > Page 86 87 87	9.1 > Section 10.1 10.2 10.3 10.4	Groundwater flooding >  Environmental designations >  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)	On site  0 0 0 0	0-50m 0 0 0	50-250m 0 0 0	0 0 0	0 0 0
85 > Page 86 87 87 87	9.1 > Section 10.1 10.2 10.3 10.4 10.5	Groundwater flooding >  Environmental designations >  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)	On site  0 0 0 0 0	0-50m 0 0 0 0	50-250m 0 0 0 0	0 0 0 0	0 0 0 0
85 > Page 86 87 87 87 88	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6	Groundwater flooding >  Environmental designations >  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)  Local Nature Reserves (LNR)	On site  0 0 0 0 0 0	0-50m 0 0 0 0	50-250m 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
85 > Page 86 87 87 87 88 88 >	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 >	Groundwater flooding >  Environmental designations >  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)  Local Nature Reserves (LNR)  Designated Ancient Woodland >	On site  0 0 0 0 0 0 0	0-50m  0  0  0  0  0  0  0	50-250m  0  0  0  0  0  0  0	0 0 0 0 0	0 0 0 0 0
85 > Page 86 87 87 87 88 88 88 88	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 >	Groundwater flooding >  Environmental designations >  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)  Local Nature Reserves (LNR)  Designated Ancient Woodland >  Biosphere Reserves	On site  0 0 0 0 0 0 0 0 0	0-50m  0  0  0  0  0  0  0  0  0	50-250m  0  0  0  0  0  0  0  0  0	0 0 0 0 0	0 0 0 0 0 0 1
85 > Page  86  87  87  87  88  88  88  88	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 > 10.8 10.9	Groundwater flooding >  Environmental designations >  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)  Local Nature Reserves (LNR)  Designated Ancient Woodland >  Biosphere Reserves  Forest Parks	On site  0 0 0 0 0 0 0 0 0 0	0-50m  0  0  0  0  0  0  0  0  0  0	50-250m  0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 1





89	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
89	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
90	10.15	Nitrate Sensitive Areas	0	0	0	0	0
90 >	<u>10.16</u> >	Nitrate Vulnerable Zones >	1	0	1	1	5
<u>91</u> >	<u>10.17</u> >	SSSI Impact Risk Zones >	2	-	-	-	-
92	10.18	SSSI Units	0	0	0	0	0
Page	Section	<u>Visual and cultural designations</u> >	On site	0-50m	50-250m	250-500m	500-2000m
93	11.1	World Heritage Sites	0	0	0	-	-
94	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
94	11.3	National Parks	0	0	0	-	-
<u>94</u> >	<u>11.4</u> >	<u>Listed Buildings</u> >	0	3	16	-	-
<u>95</u> >	<u>11.5</u> >	Conservation Areas >	1	0	0	-	-
96	11.6	Scheduled Ancient Monuments	0	0	0	-	-
96	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
<u>97</u> >	<u>12.1</u> >	Agricultural Land Classification >	Grade 3b (v	vithin 250m)	)		
98	12.2	Open Access Land	0	0	0	-	-
<u>98</u> >	<u>12.3</u> >	<u>Tree Felling Licences</u> >	0	2	2	-	-
<u>99</u> >	<u>12.4</u> >	Environmental Stewardship Schemes >	0	0	1	-	-
<u>99</u> >	<u>12.5</u> >	<u>Countryside Stewardship Schemes</u> >	1	0	0	-	-
Page	Section	<u>Habitat designations</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<u>100</u> >	<u>13.1</u> >	Priority Habitat Inventory >	2	8	8	-	-
101	13.2	Habitat Networks	0	0	0	-	-
101	13.3	Open Mosaic Habitat	0	0	0	-	-
102	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<u>Geology 1:10,000 scale</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<u>103</u> >	<u>14.1</u> >	10k Availability >	Identified (	within 500m	)		
<u>104</u> >	<u>14.2</u> >	Artificial and made ground (10k) >	10	6	7	4	-
<u>106</u> >	<u>14.3</u> >	Superficial geology (10k) >	12	2	6	2	-





107	14.4	Landslip (10k)	0	0	0	0	-
<u>108</u> >	<u>14.5</u> >	Bedrock geology (10k) >	39	3	32	25	-
<u>112</u> >	<u>14.6</u> >	Bedrock faults and other linear features (10k) >	14	0	9	6	-
Page	Section	<u>Geology 1:50,000 scale</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<u>114</u> >	<u>15.1</u> >	50k Availability >	Identified (	within 500m	)		
<u>115</u> >	<u>15.2</u> >	Artificial and made ground (50k) >	0	0	1	1	-
116	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>117</u> >	<u>15.4</u> >	Superficial geology (50k) >	10	3	5	4	-
<u>118</u> >	<u>15.5</u> >	Superficial permeability (50k) >	Identified (	within 50m)			
119	15.6	Landslip (50k)	0	0	0	0	-
120	15.7	Landslip permeability (50k)	None (with	in 50m)			
<u>121</u> >	<u>15.8</u> >	Bedrock geology (50k) >	32	2	25	20	-
<u>124</u> >	<u>15.9</u> >	Bedrock permeability (50k) >	Identified (	within 50m)			
<u>125</u> >	<u>15.10</u> >	Bedrock faults and other linear features (50k) >	7	0	5	4	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
<u>127</u> >	<u>16.1</u> >	BGS Boreholes >	5	24	91	-	-
Page	Section	Natural ground subsidence >					
<u>133</u> >	<u>17.1</u> >	Shrink swell clays >	1 /:	FO \			
		<del></del>	Low (within	150m)			
<u>135</u> >	<u>17.2</u> >	Running sands >	Low (within				
135 > 137 >	17.2 > 17.3 >		Low (within				
		Running sands >	Low (within	n 50m) within 50m)			
<u>137</u> >	<u>17.3</u> >	Running sands >  Compressible deposits >	Low (within	n 50m) within 50m) vithin 50m)			
137 > 139 >	<u>17.3</u> > <u>17.4</u> >	Running sands >  Compressible deposits >  Collapsible deposits >	Low (within Moderate ( Very low (within Low (within	n 50m) within 50m) vithin 50m)			
137 > 139 > 140 >	17.3 > 17.4 > 17.5 >	Running sands >  Compressible deposits >  Collapsible deposits >  Landslides >	Low (within Moderate ( Very low (within Low (within	within 50m) within 50m) within 50m)	50-250m	250-500m	500-2000m
137 > 139 > 140 > 142 >	17.3 > 17.4 > 17.5 > 17.6 >	Running sands >  Compressible deposits >  Collapsible deposits >  Landslides >  Ground dissolution of soluble rocks >	Low (within Moderate ( Very low (within Low (within Negligible (	within 50m) vithin 50m) n 50m) within 50m)	50-250m	<b>250-500m</b>	500-2000m
137 > 139 > 140 > 142 > Page	17.3 > 17.4 > 17.5 > 17.6 > Section	Running sands >  Compressible deposits >  Collapsible deposits >  Landslides >  Ground dissolution of soluble rocks >  Mining and ground workings >	Low (within Moderate ( Very low (within Negligible ( On site	n 50m) within 50m) vithin 50m) n 50m) within 50m) 0-50m			500-2000m - -
137 > 139 > 140 > 142 > Page 144 >	17.3 > 17.4 > 17.5 > 17.6 > Section 18.1 >	Running sands >  Compressible deposits >  Collapsible deposits >  Landslides >  Ground dissolution of soluble rocks >  Mining and ground workings >  BritPits >	Low (within Moderate ( Very low (within Negligible ( On site	n 50m) within 50m) vithin 50m) n 50m) within 50m) 0-50m	0		500-2000m - - 0
137 > 139 > 140 > 142 > Page 144 > 145 >	17.3 > 17.4 > 17.5 > 17.6 > Section 18.1 > 18.2 >	Running sands >  Compressible deposits >  Collapsible deposits >  Landslides >  Ground dissolution of soluble rocks >  Mining and ground workings >  BritPits >  Surface ground workings >	Low (within Moderate ( Very low (within Negligible ( On site	n 50m) within 50m) vithin 50m) n 50m) within 50m) 0-50m 1 18	0 25	0	-





148	18.6	Non-coal mining	0	0	0	0	0
148	18.7	JPB mining areas	None (with		0	0	O
148	18.8	The Coal Authority non-coal mining	0	0	0	0	_
148	18.9	Researched mining	0	0	0	0	_
149	18.10	Mining record office plans	0	0	0	0	_
149	18.11	BGS mine plans	0	0	0	0	_
149	18.12	Coal mining	None (with				
149	18.13	Brine areas	None (with				
149	18.14	Gypsum areas	None (with				
150	18.15	Tin mining	None (with				
150	18.16	Clay mining	None (with				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
151	19.1	Natural cavities	0	0	0	0	_
151	19.2	Mining cavities	0	0	0	0	0
							O
151	19.3	Reported recent incidents	0	0	0	0	-
151	19.4	Historical incidents	0	0	0	0	-
152	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
<u>153</u> >	<u>20.1</u> >	Radon >	Less than 1	% (within Or	n)		
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
<u>155</u> >	<u>21.1</u> >	BGS Estimated Background Soil Chemistry >	141	38	-	-	-
165	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
165	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
166	22.1	Underground railways (London)	0	0	0	-	-
166	22.2	Underground railways (Non-London)	0	0	0	-	-
167	22.3	Railway tunnels	0	0	0	-	-
167	22.4	Historical railway and tunnel features	0	0	0	-	-
167	22.5	Royal Mail tunnels	0	0	0	-	-





# East Midland Gateway, A453 (LCC Land)

**Ref**: GS-DDN-E8C-BSV-RJY **Your ref**: 220500 - 10260 **Grid ref**: 446173 324940

168 >	22.9 >	HS2 >	1	1	1	10	_
168	22.8	Crossrail 2	0	0	0	0	-
167	22.7	Railways	0	0	0	-	-
167	22.6	Historical railways	0	0	0	-	-



Date: 13 December 2024



# **Recent aerial photograph**



Capture Date: 10/07/2022





# Recent site history - 2019 aerial photograph



Capture Date: 20/04/2019





# Recent site history - 2015 aerial photograph



Capture Date: 24/04/2015





# Recent site history - 2009 aerial photograph



Capture Date: 02/07/2009





# Recent site history - 1999 aerial photograph



Capture Date: 11/07/1999





## 1 Past land use



#### 1.1 Historical industrial land uses

Records within 500m 48

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on page 14 >

ID	Location	Land use	Dates present	Group ID
1	On site	Disused Airfield	1967	1603073





ID	Location	Land use	Dates present	Group ID
2	On site	Airfield	1955	1636841
3	On site	Airport	1971	1751047
4	On site	Airport	1982 - 1992	1767001
Α	On site	Unspecified Pit	1955	1704767
Α	On site	Unspecified Pit	1922	1717239
В	On site	Helicopter Landing Pad	1982	1751637
В	On site	Helicopter Landing Pad	1971	1755236
5	4m E	Cuttings	1992 - 1993	1744917
С	11m E	Cuttings	1971	1712470
С	11m E	Cuttings	1982 - 1992	1729166
8	31m NW	Unspecified Ground Workings	1992	1593175
D	37m W	Unspecified Ground Workings	1955	1649439
D	37m W	Unspecified Ground Workings	1901	1638260
D	37m W	Old Gravel Pit	1922	1742755
D	40m W	Old Gravel Pit	1883	1716258
D	41m W	Old Gravel Pit	1883	1680422
Е	45m NW	Unspecified Depot	1992	1599087
F	55m NW	Unspecified Depot	1992	1599088
G	58m SE	Cuttings	1993	1685144
Е	58m NW	Unspecified Tanks	1982	1699181
Е	58m NW	Unspecified Tanks	1971	1746122
9	65m SE	Cuttings	1993	1585750
G	77m SE	Cuttings	1975	1653354
Е	88m NW	Unspecified Tanks	1982	1659268
Е	88m NW	Unspecified Tanks	1971	1681723
Н	127m SW	Brick Yard	1883	1692134
Н	128m SW	Brick Yard	1903	1740461
10	141m SE	Cuttings	1993	1584849





ID	Location	Land use	Dates present	Group ID
J	155m NE	Cuttings	1971	1692256
J	155m NE	Cuttings	1982 - 1992	1710569
11	179m W	Smithy	1955	1712039
K	189m W	Electric Substation	1988	1598286
L	204m SW	Smithy	1922	1609666
L	208m SW	Smithy	1919	1753726
12	210m NW	Unspecified Warehouse	1992	1625584
15	281m N	Unspecified Warehouse	1992	1625583
16	296m W	Disused Military Camp	1967	1603619
0	388m NW	Electric Substation	1988	1598285
18	400m S	Cuttings	1993	1585753
19	422m NW	Brick Yard	1882 - 1883	1764737
Р	431m W	Unspecified Commercial/Industrial	1955	1663150
Р	431m W	Unspecified Commercial/Industrial	1967 - 1988	1746241
Q	440m NW	Fire Station	1992	1596928
20	441m W	Unspecified Works	1967	1612489
22	466m NW	Brick Yard	1882 - 1883	1696286
R	472m NE	Unspecified Heap	1971	1659945
R	472m NE	Unspecified Heap	1982 - 1992	1691670

This data is sourced from Ordnance Survey / Groundsure.

#### 1.2 Historical tanks

Records within 500m 24

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on page 14 >





ID	Location	Land use	Dates present	Group ID
Е	41m NW	Unspecified Tank	1983 - 1984	278248
Е	51m NW	Tanks	1993 - 1997	284384
Е	54m NW	Tanks	1991	275753
Е	54m NW	Unspecified Tank	1983 - 1987	282335
Е	61m NW	Tanks	1991 - 1997	288515
F	62m NW	Tanks	1993 - 1997	279794
Е	63m NW	Unspecified Tank	1971 - 1987	278258
F	66m NW	Tanks	1991	280325
Е	71m NW	Tanks	1969 - 1971	282341
Е	74m NW	Tanks	1993 - 1997	279771
Е	76m NW	Tanks	1971	287245
Е	77m NW	Unspecified Tank	1983 - 1991	289120
Е	100m NW	Unspecified Tank	1983 - 1987	292802
M	252m W	Unspecified Tank	1984 - 1989	284904
M	254m W	Unspecified Tank	1971	280776
M	254m W	Unspecified Tank	1997	291154
0	409m NW	Unspecified Tank	1984 - 1989	287313
0	411m NW	Unspecified Tank	1997	269688
21	464m SW	Unspecified Tank	1992	271615
Q	472m NW	Unspecified Tank	1993	277482
Q	473m NW	Unspecified Tank	1984 - 1991	289162
0	473m NW	Unspecified Tank	1984 - 1989	280888
0	481m NW	Unspecified Tank	1997	269687
24	500m NW	Unspecified Tank	1984 - 1989	286953

This data is sourced from Ordnance Survey / Groundsure.





#### 1.3 Historical energy features

Records within 500m 18

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on page 14 >

ID	Location	Land use	Dates present	Group ID
6	9m W	Gas Governor	1992	165618
7	24m NW	Gas Governor	1997	165617
Е	107m NW	Electricity Substation	1993 - 1997	179262
Е	109m NW	Electricity Substation	1991	172561
K	187m W	Electricity Substation	1984 - 1989	169407
K	188m W	Electricity Substation	1997	184405
13	224m N	Electricity Substation	1997	164585
14	232m NW	Electricity Substation	1991 - 1997	173777
Ν	266m NW	Electricity Substation	1983 - 1991	170535
Ν	268m NW	Electricity Substation	1983 - 1997	177553
Ν	269m NW	Electricity Substation	1971	173238
17	326m N	Electricity Substation	1997	164584
0	380m NW	Electricity Substation	1989	170459
0	381m NW	Electricity Substation	1997	184341
0	383m NW	Electricity Substation	1971 - 1984	182437
23	478m N	Electricity Substation	1991	164903
S	487m NW	Electricity Substation	1984 - 1997	175661
S	488m NW	Electricity Substation	1971	168029

This data is sourced from Ordnance Survey / Groundsure.





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#### 1.4 Historical petrol stations

Records within 500m

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

#### 1.5 Historical garages

Records within 500m 3

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on page 14 >

ID	Location	Land use	Dates present	Group ID
I	149m NW	Garage	1971	58016
I	156m NW	Garage	1983 - 1987	55531
ı	174m NW	Garage	1971	54868

This data is sourced from Ordnance Survey / Groundsure.

#### 1.6 Historical military land

Records within 500m 0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.





# 2 Past land use - un-grouped



#### 2.1 Historical industrial land uses

**Records within 500m** 58

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on page 20 >

ID	Location	Land Use	Date	Group ID
1	On site	Airport	1992	1767001
2	On site	Airfield	1955	1636841
3	On site	Disused Airfield	1967	1603073

info@groundsure.com ↗

01273 257 755





Α			Date	Group ID
	On site	Unspecified Pit	1922	1717239
Α	On site	Unspecified Pit	1955	1704767
Α	On site	Unspecified Pit	1922	1717239
В	On site	Airport	1971	1751047
В	On site	Airport	1982	1767001
С	On site	Helicopter Landing Pad	1971	1755236
С	On site	Helicopter Landing Pad	1982	1751637
4	4m E	Cuttings	1993	1744917
D	6m W	Airport	1988	1767001
Е	11m E	Cuttings	1971	1712470
Е	11m E	Cuttings	1982	1729166
Е	11m E	Cuttings	1992	1729166
7	31m NW	Unspecified Ground Workings	1992	1593175
F	37m W	Unspecified Ground Workings	1955	1649439
F	37m W	Unspecified Ground Workings	1901	1638260
F	37m W	Old Gravel Pit	1922	1742755
F	37m W	Old Gravel Pit	1922	1742755
F	40m W	Old Gravel Pit	1883	1716258
F	41m W	Old Gravel Pit	1883	1680422
G	45m NW	Unspecified Depot	1992	1599087
Н	55m NW	Unspecified Depot	1992	1599088
I	58m SE	Cuttings	1993	1685144
G	58m NW	Unspecified Tanks	1971	1746122
G	58m NW	Unspecified Tanks	1982	1699181
8	65m SE	Cuttings	1993	1585750
I	77m SE	Cuttings	1975	1653354
G	88m NW	Unspecified Tanks	1971	1681723
G	88m NW	Unspecified Tanks	1982	1659268





ID	Location	Land Use	Date	Group ID
9	92m E	Cuttings	1992	1744917
J	127m SW	Brick Yard	1883	1692134
J	128m SW	Brick Yard	1903	1740461
J	129m SW	Brick Yard	1883	1692134
10	141m SE	Cuttings	1993	1584849
L	155m NE	Cuttings	1971	1692256
L	155m NE	Cuttings	1982	1710569
L	155m NE	Cuttings	1992	1710569
11	179m W	Smithy	1955	1712039
M	189m W	Electric Substation	1988	1598286
Ν	204m SW	Smithy	1922	1609666
Ν	208m SW	Smithy	1919	1753726
12	210m NW	Unspecified Warehouse	1992	1625584
14	281m N	Unspecified Warehouse	1992	1625583
15	296m W	Disused Military Camp	1967	1603619
R	388m NW	Electric Substation	1988	1598285
17	400m S	Cuttings	1993	1585753
D	422m NW	Brick Yard	1883	1764737
S	431m W	Unspecified Commercial/Industrial	1988	1746241
S	431m W	Unspecified Commercial/Industrial	1967	1746241
S	431m W	Unspecified Commercial/Industrial	1955	1663150
Т	440m NW	Fire Station	1992	1596928
18	441m W	Unspecified Works	1967	1612489
20	466m NW	Brick Yard	1883	1696286
U	472m NE	Unspecified Heap	1971	1659945
U	472m NE	Unspecified Heap	1982	1691670
U	472m NE	Unspecified Heap	1992	1691670

This data is sourced from Ordnance Survey / Groundsure.





#### 2.2 Historical tanks

Records within 500m 48

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on page 20 >

ID	Location	Land Use	Date	Group ID
G	41m NW	Unspecified Tank	1983	278248
G	41m NW	Unspecified Tank	1984	278248
G	51m NW	Tanks	1997	284384
G	51m NW	Tanks	1993	284384
G	54m NW	Unspecified Tank	1983	282335
G	54m NW	Unspecified Tank	1984	282335
G	54m NW	Unspecified Tank	1987	282335
G	54m NW	Tanks	1991	275753
G	61m NW	Tanks	1997	288515
G	61m NW	Tanks	1993	288515
Н	62m NW	Tanks	1997	279794
Н	62m NW	Tanks	1993	279794
G	63m NW	Unspecified Tank	1971	278258
G	65m NW	Unspecified Tank	1971	278258
G	65m NW	Unspecified Tank	1983	278258
G	65m NW	Unspecified Tank	1984	278258
G	65m NW	Unspecified Tank	1987	278258
G	65m NW	Tanks	1991	288515
Н	66m NW	Tanks	1991	280325
G	71m NW	Tanks	1969	282341
G	72m NW	Tanks	1971	282341
G	74m NW	Tanks	1997	279771
G	74m NW	Tanks	1993	279771





ID	Location	Land Use	Date	Group ID
G	76m NW	Tanks	1971	287245
G	77m NW	Unspecified Tank	1983	289120
G	77m NW	Unspecified Tank	1984	289120
G	77m NW	Unspecified Tank	1987	289120
G	77m NW	Unspecified Tank	1991	289120
G	100m NW	Unspecified Tank	1983	292802
G	100m NW	Unspecified Tank	1984	292802
G	100m NW	Unspecified Tank	1987	292802
P	252m W	Unspecified Tank	1984	284904
Р	252m W	Unspecified Tank	1989	284904
P	254m W	Unspecified Tank	1971	280776
Р	254m W	Unspecified Tank	1997	291154
R	409m NW	Unspecified Tank	1984	287313
R	409m NW	Unspecified Tank	1989	287313
R	411m NW	Unspecified Tank	1997	269688
19	464m SW	Unspecified Tank	1992	271615
Т	472m NW	Unspecified Tank	1993	277482
Т	473m NW	Unspecified Tank	1984	289162
Т	473m NW	Unspecified Tank	1987	289162
Т	473m NW	Unspecified Tank	1991	289162
R	473m NW	Unspecified Tank	1984	280888
R	473m NW	Unspecified Tank	1989	280888
R	481m NW	Unspecified Tank	1997	269687
W	500m NW	Unspecified Tank	1984	286953
W	500m NW	Unspecified Tank	1989	286953

This data is sourced from Ordnance Survey / Groundsure.





## 2.3 Historical energy features

Records within 500m 34

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on page 20 >

5         9m W         Gas Governor         1992         165618           6         24m NW         Gas Governor         1997         165617           6         107m NW         Electricity Substation         1993         179262           6         107m NW         Electricity Substation         1991         172561           6         109m NW         Electricity Substation         1991         169407           M         187m W         Electricity Substation         1989         169407           M         188m W         Electricity Substation         1997         184405           13         224m N         Electricity Substation         1997         173777           Q         232m NW         Electricity Substation         1997         173777           Q         232m NW         Electricity Substation         1993         173777           Q         266m NW         Electricity Substation         1993         170535           Q         266m NW         Electricity Substation         1993         170535           Q         266m NW         Electricity Substation         1994         170535           Q         266m NW         Electricity Substation         1997         177553	ID	Location	Land Use	Date	Group ID
6         107m NW         Electricity Substation         1997         179262           6         107m NW         Electricity Substation         1993         179262           6         109m NW         Electricity Substation         1991         172561           M         187m W         Electricity Substation         1984         169407           M         188m W         Electricity Substation         1999         169407           M         188m W         Electricity Substation         1997         184405           13         224m N         Electricity Substation         1997         164585           0         232m NW         Electricity Substation         1997         173777           0         232m NW         Electricity Substation         1991         173777           0         233m NW         Electricity Substation         1991         170535           0         266m NW         Electricity Substation         1984         170535           0         266m NW         Electricity Substation         1997         177553           0         266m NW         Electricity Substation         1997         177553           0         268m NW         Electricity Substation         1993<	5	9m W	Gas Governor	1992	165618
G         107m NW         Electricity Substation         1993         179262           G         109m NW         Electricity Substation         1991         172561           M         187m W         Electricity Substation         1984         169407           M         187m W         Electricity Substation         1989         169407           M         188m W         Electricity Substation         1997         184405           13         224m N         Electricity Substation         1997         164585           O         232m NW         Electricity Substation         1997         173777           O         232m NW         Electricity Substation         1993         173777           Q         266m NW         Electricity Substation         1991         173777           Q         266m NW         Electricity Substation         1983         170535           Q         266m NW         Electricity Substation         1997         170535           Q         266m NW         Electricity Substation         1997         177553           Q         268m NW         Electricity Substation         1997         177553           Q         268m NW         Electricity Substation         1997<	6	24m NW	Gas Governor	1997	165617
G         109m NW         Electricity Substation         1991         172561           M         187m W         Electricity Substation         1984         169407           M         187m W         Electricity Substation         1989         169407           M         188m W         Electricity Substation         1997         184405           13         224m N         Electricity Substation         1997         173777           0         232m NW         Electricity Substation         1993         173777           0         233m NW         Electricity Substation         1991         173777           Q         266m NW         Electricity Substation         1983         170535           Q         266m NW         Electricity Substation         1984         170535           Q         266m NW         Electricity Substation         1997         170535           Q         268m NW         Electricity Substation         1997         177553           Q         268m NW         Electricity Substation         1993         177553           Q         268m NW         Electricity Substation         1993         177553           Q         269m NW         Electricity Substation         1991<	G	107m NW	Electricity Substation	1997	179262
M         187m W         Electricity Substation         1984         169407           M         187m W         Electricity Substation         1989         169407           M         188m W         Electricity Substation         1997         184405           13         224m N         Electricity Substation         1997         164585           O         232m NW         Electricity Substation         1997         173777           O         233m NW         Electricity Substation         1993         173777           Q         236m NW         Electricity Substation         1991         173777           Q         266m NW         Electricity Substation         1984         170535           Q         266m NW         Electricity Substation         1987         170535           Q         266m NW         Electricity Substation         1991         170535           Q         268m NW         Electricity Substation         1997         177553           Q         269m NW         Electricity Substation         1993         177553           Q         269m NW         Electricity Substation         1991         173238           Q         269m NW         Electricity Substation         1991<	G	107m NW	Electricity Substation	1993	179262
M       187m W       Electricity Substation       1989       169407         M       188m W       Electricity Substation       1997       184405         13       224m N       Electricity Substation       1997       164585         O       232m NW       Electricity Substation       1997       173777         O       232m NW       Electricity Substation       1993       173777         O       233m NW       Electricity Substation       1991       173777         Q       266m NW       Electricity Substation       1984       170535         Q       266m NW       Electricity Substation       1997       170535         Q       266m NW       Electricity Substation       1991       170535         Q       266m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1991       173238         Q       269m NW       Electricity Substation       1991       173238         Q       269m NW       Electricity Substation       1991       173238         Q       270m NW       Electricity Substation	G	109m NW	Electricity Substation	1991	172561
M       188m W       Electricity Substation       1997       184405         13       224m N       Electricity Substation       1997       164585         0       232m NW       Electricity Substation       1997       173777         0       232m NW       Electricity Substation       1993       173777         0       233m NW       Electricity Substation       1991       173777         Q       266m NW       Electricity Substation       1983       170535         Q       266m NW       Electricity Substation       1987       170535         Q       266m NW       Electricity Substation       1991       170535         Q       268m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1991       173238         Q       269m NW       Electricity Substation       1971       173238         Q       270m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	M	187m W	Electricity Substation	1984	169407
13       224m N       Electricity Substation       1997       164585         0       232m NW       Electricity Substation       1997       173777         0       232m NW       Electricity Substation       1993       173777         0       233m NW       Electricity Substation       1991       173777         Q       266m NW       Electricity Substation       1983       170535         Q       266m NW       Electricity Substation       1984       170535         Q       266m NW       Electricity Substation       1991       170535         Q       266m NW       Electricity Substation       1991       170535         Q       268m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	M	187m W	Electricity Substation	1989	169407
O       232m NW       Electricity Substation       1997       173777         O       232m NW       Electricity Substation       1993       173777         O       233m NW       Electricity Substation       1991       173777         Q       266m NW       Electricity Substation       1983       170535         Q       266m NW       Electricity Substation       1987       170535         Q       266m NW       Electricity Substation       1991       170535         Q       268m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1993       177553         Q       270m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	M	188m W	Electricity Substation	1997	184405
O       232m NW       Electricity Substation       1993       173777         O       233m NW       Electricity Substation       1991       173777         Q       266m NW       Electricity Substation       1983       170535         Q       266m NW       Electricity Substation       1987       170535         Q       266m NW       Electricity Substation       1991       170535         Q       266m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553         Q       270m NW       Electricity Substation       1984       177553	13	224m N	Electricity Substation	1997	164585
O       233m NW       Electricity Substation       1991       173777         Q       266m NW       Electricity Substation       1983       170535         Q       266m NW       Electricity Substation       1984       170535         Q       266m NW       Electricity Substation       1997       170535         Q       268m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553         Q       270m NW       Electricity Substation       1984       177553	0	232m NW	Electricity Substation	1997	173777
Q       266m NW       Electricity Substation       1983       170535         Q       266m NW       Electricity Substation       1984       170535         Q       266m NW       Electricity Substation       1987       170535         Q       266m NW       Electricity Substation       1991       170535         Q       268m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1971       173238         Q       270m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	0	232m NW	Electricity Substation	1993	173777
Q       266m NW       Electricity Substation       1984       170535         Q       266m NW       Electricity Substation       1987       170535         Q       266m NW       Electricity Substation       1991       170535         Q       268m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1971       173238         Q       270m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	0	233m NW	Electricity Substation	1991	173777
Q       266m NW       Electricity Substation       1987       170535         Q       266m NW       Electricity Substation       1991       170535         Q       268m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	Q	266m NW	Electricity Substation	1983	170535
Q       266m NW       Electricity Substation       1991       170535         Q       268m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1971       173238         Q       270m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	Q	266m NW	Electricity Substation	1984	170535
Q       268m NW       Electricity Substation       1997       177553         Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1971       173238         Q       270m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	Q	266m NW	Electricity Substation	1987	170535
Q       268m NW       Electricity Substation       1993       177553         Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1971       173238         Q       270m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	Q	266m NW	Electricity Substation	1991	170535
Q       269m NW       Electricity Substation       1971       173238         Q       269m NW       Electricity Substation       1971       173238         Q       270m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	Q	268m NW	Electricity Substation	1997	177553
Q       269m NW       Electricity Substation       1971       173238         Q       270m NW       Electricity Substation       1983       177553         Q       270m NW       Electricity Substation       1984       177553	Q	268m NW	Electricity Substation	1993	177553
Q 270m NW Electricity Substation 1983 177553  Q 270m NW Electricity Substation 1984 177553	Q	269m NW	Electricity Substation	1971	173238
Q 270m NW Electricity Substation 1984 177553	Q	269m NW	Electricity Substation	1971	173238
	Q	270m NW	Electricity Substation	1983	177553
Q 270m NW Electricity Substation 1987 177553	Q	270m NW	Electricity Substation	1984	177553
	Q	270m NW	Electricity Substation	1987	177553





ID	Location	Land Use	Date	Group ID
Q	270m NW	Electricity Substation	1991	177553
16	326m N	Electricity Substation	1997	164584
R	380m NW	Electricity Substation	1989	170459
R	381m NW	Electricity Substation	1997	184341
R	383m NW	Electricity Substation	1984	182437
R	384m NW	Electricity Substation	1971	182437
21	478m N	Electricity Substation	1991	164903
V	487m NW	Electricity Substation	1984	175661
V	487m NW	Electricity Substation	1989	175661
V	487m NW	Electricity Substation	1997	175661
V	488m NW	Electricity Substation	1971	168029

This data is sourced from Ordnance Survey / Groundsure.

#### 2.4 Historical petrol stations

Records within 500m 0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

#### 2.5 Historical garages

Records within 500m 5

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on page 20 >

ID	Location	Land Use	Date	Group ID
K	149m NW	Garage	1971	58016
K	156m NW	Garage	1984	55531

01273 257 755





ID	Location	Land Use	Date	Group ID
K	156m NW	Garage	1987	55531
K	156m NW	Garage	1983	55531
K	174m NW	Garage	1971	54868

This data is sourced from Ordnance Survey / Groundsure.



Date: 13 December 2024



## 3 Waste and landfill



#### 3.1 Active or recent landfill

Records within 500m 0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

## 3.2 Historical landfill (BGS records)

Records within 500m 0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.





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#### 3.3 Historical landfill (LA/mapping records)

Records within 500m 0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

#### 3.4 Historical landfill (EA/NRW records)

Records within 500m

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on page 28 >

ID	Location	Details		
1	7m W	Site Address: Off Grimes Gate, Diseworth, Off Grimes Gate, Diseworth, Leicestershire Licence Holder Address: -	Waste Licence: - Site Reference: GDO 329, 72/2915/12 Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/12/1960 Last Recorded: 31/12/1970

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 3.5 Historical waste sites

Records within 500m 0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

#### 3.6 Licensed waste sites

Records within 500m

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on page 28 >





ID	Location	Details		
D	251m NW	Site Name: East Midlands Airport Site Address: East Midlands Airport, Nottingham Road, Castle Donnington, Derby, Derbyshire, DE74 2SA Correspondence Address: Castle Donington, Derby, Derbyshire, DE74 2SA	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EAS001 EPR reference: - Operator: East Midlands International Airport Ltd Waste Management licence No: 43288 Annual Tonnage: 730	Issue Date: 28/11/1986 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	252m NW	Site Name: East Midlands Airport Site Address: Building 34, East Midlands Airport, Castle Donnington, Derby, Derbyshire, DE74 2SA Correspondence Address: -	Type of Site: 75kte HCI Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EAS001 EPR reference: EA/EPR/HP3693CW/V003 Operator: East Midlands International Airport Ltd Waste Management licence No: 43288 Annual Tonnage: 74999	Issue Date: 28/11/1986 Effective Date: - Modified: 03/03/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
F	280m W	Site Name: Building 34, East Midlands Airport Site Address: Building 34, Castle Donnington, Derby, Derbyshire, DE74 2SA Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 626181 EPR reference: EA/EPR/HP3693CW Operator: East Midlands International Airport Limited Waste Management licence No: 43288 Annual Tonnage: 74999	Issue Date: 28/11/1986 Effective Date: 28/11/1986 Modified: 28/11/1986 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

This data is sourced from the Environment Agency and Natural Resources Wales.



Date: 13 December 2024



## 3.7 Waste exemptions

Records within 500m 116

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on page 28 >

ID	Location	Site	Reference	Category	Sub-Category	Description
А	14m W	Old Hall Farm Grimesgate De74 2qd	EPR/FE5987BG /A001	Using waste exemption	Agricultural waste only	Use of waste in construction
А	14m W	Old Hall Farm Grimesgate De74 2qd	EPR/FE5987BG /A001	Storing waste exemption	Agricultural waste only	Storage of waste in secure containers
Α	14m W	Old Hall Farm Grimesgate De74 2qd	EPR/FE5987BG /A001	Treating waste exemption	Agricultural waste only	Aerobic composting and associated prior treatment
А	14m W	Old Hall Farm Grimesgate De74 2qd	EPR/FE5987BG /A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
Α	14m W	Old Hall Farm Grimesgate De74 2qd	EPR/FE5987BG /A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
А	14m W	Old Hall Farm Grimesgate De74 2qd	EPR/FE5987BG /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
А	14m W	Old Hall Farm Grimesgate De74 2qd	EPR/FE5987BG /A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
В	35m E	Hemington Fields, The Cottage, Tamworth Road, Shardlow, Derby, De72 2hp	WEX086036	Storing waste exemption	Not on a farm	Storage of waste in a secure place
В	35m E	Hemington Fields, The Cottage, Tamworth Road, Shardlow, Derby, De72 2hp	WEX086036	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
В	35m E	Hemington Fields, The Cottage, Tamworth Road, Shardlow, Derby, De72 2hp	WEX086036	Using waste exemption	Not on a farm	Use of waste in construction
В	35m E	Hemington Fields, The Cottage, Tamworth Road, Shardlow, Derby, De72 2hp	WEX086036	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit





15	Lander	C:+ -	Defense	Catana	Cult Callana	Danasiation
ID	Location	Site	Reference	Category	Sub-Category	Description
В	35m E	Hemington Fields, The Cottage, Tamworth Road, Shardlow, Derby, De72 2hp	WEX086036	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
В	35m E	Hemington Fields, The Cottage, Tamworth Road, Shardlow, Derby, De72 2hp	WEX086036	Using waste exemption	Not on a farm	Use of mulch
2	177m NE	Siemens Building Technologies - Regus - Nottingham East Midlands Airport, Herald Way, Pegasus Business Park, Castle Donington, De74 2tz	WEX117239	Storing waste exemption	Not on a farm	Storage of waste in a secure place
С	188m N	Pathfinder House, East Midlands Airport, Castle Donington, Derby, De74 2sa	WEX284502	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
С	188m N	Pathfinder House, East Midlands Airport, Castle Donington, Derby, De74 2sa	WEX284502	Using waste exemption	Not on a farm	Use of waste in construction
С	188m N	Pathfinder House, East Midlands Airport, Castle Donington, Derby, De74 2sa	WEX284502	Using waste exemption	Not on a farm	Use of waste for a specified purpose
С	188m N	Pathfinder House, East Midlands Airport, Castle Donington, Derby, De74 2sa	WEX284502	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
С	188m N	Pathfinder House, East Midlands Airport, Castle Donington, Derby, De74 2sa	WEX284502	Using waste exemption	Not on a farm	Use of mulch
Е	256m SW	4 Lady Gate Derby Derbyshire De74 2qf	EPR/EE5181VJ /A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
Е	259m SW	4, Lady Gate, Diseworth, Derby, De74 2qf	WEX073893	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	259m SW	4, Lady Gate, Diseworth, Derby, De74 2qf	WEX073893	Disposing of waste exemption	On a farm	Burning waste in the open





ID	Location	Site	Reference	Category	Sub-Category	Description
Е	259m SW	4, Lady Gate, Diseworth, Derby, De74 2qf	WEX073893	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
G	287m NW	East Midlands International Airport Ltd, Building 34, East Midlands Airport, Castle Donington, Derby, De74 2sa	WEX147006	Using waste exemption	Not on a farm	Use of waste for a specified purpose
G	287m NW	East Midlands International Airport Ltd, Building 34, East Midlands Airport, Castle Donington, Derby, De74 2sa	WEX147006	Using waste exemption	Not on a farm	Use of waste in construction
G	287m NW	East Midlands International Airport Ltd, Building 34, East Midlands Airport, Castle Donington, Derby, De74 2sa	WEX147006	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
G	287m NW	East Midlands International Airport Ltd, Building 34, East Midlands Airport, Castle Donington, Derby, De74 2sa	WEX147006	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	287m NW	East Midlands International Airport Ltd, Building 34, East Midlands Airport, Castle Donington, Derby, De74 2sa	WEX147006	Using waste exemption	Not on a farm	Use of mulch
G	288m NW	Building 34 East Midlands Airport East Midlands De74 2sa	EPR/TF0235AA /A001	Treating waste exemption	Non- agricultural waste only	Crushing waste fluorescent tubes
Н	293m SW	The Brick Yard, Long Mere Lane, Diseworth, De742qf	WEX343728	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
Н	293m SW	The Brick Yard, Long Mere Lane, Diseworth, De742qf	WEX343728	Disposing of waste exemption	On a farm	Burning waste in the open
Н	293m SW	The Brick Yard, Long Mere Lane, Diseworth, De742qf	WEX343728	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
Н	293m SW	The Brick Yard, Long Mere Lane, Diseworth, De742qf	WEX220008	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters





ID	Location	Site	Reference	Category	Sub-Category	Description
Н	293m SW	The Brick Yard, Long Mere Lane, Diseworth, De742qf	WEX220008	Disposing of waste exemption	On a farm	Burning waste in the open
Н	293m SW	The Brick Yard, Long Mere Lane, Diseworth, De742qf	WEX220008	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	295m W	Building 34 East Midlands Airport East Midlands De74 2sa	EPR/AF0605Z U/A001	Using waste exemption	Non- agricultural waste only	Use of mulch
F	295m W	Building 34 East Midlands Airport East Midlands De74 2sa	EPR/AF0605Z U/A001	Treating waste exemption	Non- agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	295m W	Building 34 East Midlands Airport East Midlands De74 2sa	EPR/AF0605Z U/A001	Using waste exemption	Non- agricultural waste only	Use of waste in construction
F	295m W	Building 34 East Midlands Airport East Midlands De74 2sa	EPR/AF0605Z U/A001	Using waste exemption	Non- agricultural waste only	Spreading of plant matter to confer benefit
F	295m W	Building 34 East Midlands Airport East Midlands De74 2sa	EPR/AF0605Z U/A001	Using waste exemption	Non- agricultural waste only	Use of waste for a specified purpose
I	299m W	36, Hall Gate, Diseworth, Derby, De74 2qj	WEX065648	Using waste exemption	On a farm	Use of waste in construction
l	299m W	36, Hall Gate, Diseworth, Derby, De74 2qj	WEX065648	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
I	299m W	36, Hall Gate, Diseworth, Derby, De74 2qj	WEX065648	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
I	299m W	36, Hall Gate, Diseworth, Derby, De74 2qj	WEX065648	Using waste exemption	On a farm	Use of waste for a specified purpose
I	299m W	36, Hall Gate, Diseworth, Derby, De74 2qj	WEX065648	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
I	299m W	36, Hall Gate, Diseworth, Derby, De74 2qj	WEX065648	Using waste exemption	On a farm	Use of mulch
I	313m SW	36 Hall Gate Derby De74 2qj	EPR/XF0635GC /A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
I	313m SW	36 Hall Gate Derby De74 2qj	EPR/XF0635GC /A001	Treating waste exemption	Agricultural waste only	Aerobic composting and associated prior treatment





ID	Location	Cito	Reference	Catogory	Sub Catagory	Description
ID	Location	Site	keierence	Category	Sub-Category	Description
I	313m SW	36 Hall Gate Derby De74 2qj	EPR/XF0635GC /A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
I	313m SW	36 Hall Gate Derby De74 2qj	EPR/XF0635GC /A001	Using waste exemption	Agricultural waste only	Use of waste in construction
I	313m SW	36 Hall Gate Derby De74 2qj	EPR/XF0635GC /A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
I	313m SW	36 Hall Gate Derby De74 2qj	EPR/XF0635GC /A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
I	313m SW	36 Hall Gate Derby De74 2qj	EPR/XF0635GC /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
I	313m SW	36 Hall Gate Derby De74 2qj	EPR/XF0635GC /A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
J	329m NE	Mole Hill Farm Ashby Road Derby De74 2dl	EPR/PF0230G H/A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
J	329m NE	Mole Hill Farm Ashby Road Derby De74 2dl	EPR/PF0230G H/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
J	329m NE	Mole Hill Farm Ashby Road Derby De74 2dl	EPR/PF0230G H/A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on agricultural land to confer benefit
J	329m NE	Mole Hill Farm Ashby Road Derby De74 2dl	EPR/PF0230G H/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Cleaning, washing, spraying or coating relevant waste
J	329m NE	Mole Hill Farm Ashby Road Derby De74 2dl	EPR/PF0230G H/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Aerobic composting and associated prior treatment





ID	Location	Site	Reference	Category	Sub-Category	Description
J	329m NE	Mole Hill Farm Ashby Road Derby De74 2dl	EPR/PF0230G H/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
J	329m NE	Mole Hill Farm Ashby Road Derby De74 2dl	EPR/PF0230G H/A001			Incorporation of ash into soil
J	329m NE	Mole Hill Farm Ashby Road Derby De74 2dl	EPR/PF0230G H/A001	Using waste Both exemption agricultural and nonagricultural waste		Burning of waste as a fuel in a small appliance
K	384m SW	The Brick Yard, Long Mere Lane, Diseworth, De742qf	WEX074018	Disposing of waste exemption	On a farm	Burning waste in the open
K	384m SW	The Brick Yard, Long Mere Lane, Diseworth, De742qf	WEX074018	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
K	384m SW	The Brick Yard, Long Mere Lane, Diseworth, De742qf	WEX074018	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
L	410m SW	9 Lady Gate Derby De74 2qf	EPR/XF0837BE /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
L	410m SW	9 Lady Gate Derby De74 2qf	EPR/XF0837BE /A001	Using waste exemption	Both agricultural and non- agricultural waste	Burning of waste as a fuel in a small appliance
L	410m SW	9 Lady Gate Derby De74 2qf	EPR/XF0837BE /A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste for a specified purpose
L	410m SW	9 Lady Gate Derby De74 2qf	410m SW 9 Lady Gate Derby De74 EPR/XF0837BE Disposing of Both 2qf /A001 waste agricular exemption and magnicular agriculture.		Both agricultural and non- agricultural waste	Burning waste in the open





ID	Location	Site	Reference	Category	Sub-Category	Description
L	410m SW	9 Lady Gate Derby De74 2qf	EPR/XF0837BE /A001	Using waste exemption	Both agricultural and non- agricultural waste	Spreading waste on agricultural land to confer benefit
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX333641	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX333641	Disposing of waste exemption	On a farm	Burning waste in the open
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX333641	Using waste exemption	On a farm	Use of waste in construction
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX333641	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX333641	Using waste exemption	On a farm	Use of waste for a specified purpose
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX054189	Disposing of waste exemption	On a farm	Burning waste in the open
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX054189	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX208932	Using waste exemption	On a farm	Use of waste in construction
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX208932	Using waste exemption	On a farm	Use of waste for a specified purpose
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX208932	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX208932	Disposing of waste exemption	On a farm	Burning waste in the open
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX208932	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX054189	Using waste exemption	On a farm	Use of waste in construction
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX054189	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance





ID	Location	Site	Reference	Category	Sub-Category	Description
L	411m SW	9, Lady Gate, Diseworth, Derby, De74 2qf	WEX054189	Using waste exemption	On a farm	Use of waste for a specified purpose
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX335794	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX335794	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX335794	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX335794	Disposing of waste exemption	On a farm	Burning waste in the open
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX335794	Using waste exemption	On a farm	Use of waste in construction
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX335794	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX335794	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX335794	Using waste exemption	On a farm	Incorporation of ash into soil
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX335794	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX335794	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX210403	Using waste exemption	On a farm	Use of waste in construction
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX210403	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX210403	Using waste exemption	On a farm	Spreading of plant matter to confer benefit





ID	Location	Site	Reference	Category	Sub-Category	Description
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX210403	Using waste exemption	On a farm	Incorporation of ash into soil
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX210403	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX210403	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX054135	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX054135	Disposing of waste exemption	On a farm	Burning waste in the open
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX054135	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX054135	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX074704	Using waste exemption	On a farm	Use of waste in construction
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX054135	Using waste exemption	On a farm	Use of waste in construction
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX054135	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX054135	Using waste exemption	On a farm	Incorporation of ash into soil
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX054135	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX054135	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment





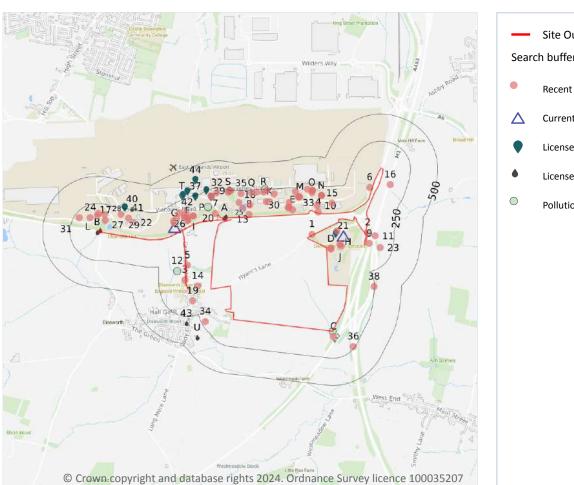
ID	Location	Site	Reference	Category	Sub-Category	Description
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX054135	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX210403	Disposing of waste exemption	On a farm	Burning waste in the open
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX210403	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX210403	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
M	478m S	Woodnook Farm, West End, Long Whatton, Loughborough, Le12 5dw	WEX210403	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice

This data is sourced from the Environment Agency and Natural Resources Wales.





# 4 Current industrial land use



Site Outline
 Search buffers in metres (m)
 Recent industrial land uses
 △ Current or recent petrol stations
 Licensed pollutant release (Part A(2)/B)
 Licensed Discharges to controlled waters
 Pollution Incidents (EA/NRW)

#### 4.1 Recent industrial land uses

Records within 250m 78

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 41 >

ID	Location	Company	Address	Activity	Category
1	On site	Mast	Leicestershire, DE74	Telecommunications Features	Infrastructure and Facilities
2	9m E	Gantry	Leicestershire, DE74	Travelling Cranes and Gantries	Industrial Features





ID	Location	Company	Address	Activity	Category
3	10m W	Gas Governor Station	Leicestershire, DE74	Gas Features	Infrastructure and Facilities
4	12m NE	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
5	15m W	Sewage Pumping Station	Leicestershire, DE74	Waste Storage, Processing and Disposal	Infrastructure and Facilities
6	26m NE	Pumping Station	Leicestershire, DE74	Water Pumping Stations	Industrial Features
7	27m NW	Gas Governor Station	Leicestershire, DE74	Gas Features	Infrastructure and Facilities
8	27m NW	Mast	Leicestershire, DE74	Telecommunications Features	Infrastructure and Facilities
9	34m E	Gantry	Leicestershire, DE74	Travelling Cranes and Gantries	Industrial Features
D	39m E	Pumping Station	Leicestershire, DE74	Water Pumping Stations	Industrial Features
D	39m E	Sewage Pumping Station	Leicestershire, DE74	Waste Storage, Processing and Disposal	Infrastructure and Facilities
Е	47m N	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
С	50m SE	Gantry	Leicestershire, LE12	Travelling Cranes and Gantries	Industrial Features
F	55m NW	Tank	Leicestershire, DE74	Tanks (Generic)	Industrial Features
F	64m NW	Tank	Leicestershire, DE74	Tanks (Generic)	Industrial Features
10	65m NE	National Grid Electricity Distribution	Herald Way, East Midlands Airport, Castle Donington, Leicestershire, DE74 2TU	Electrical Production and Manipulation Equipment	Industrial Products
Н	67m NE	BP Service Station	BP Petrol Station Donington Park Service Area Junction 23a, Ashby Road, Castle Donington, Leicestershire, DE74 2TN	Petrol and Fuel Stations	Road and Rail
Е	68m N	Amec Foster Wheeler	Osprey House 5, Hunter Road, Castle Donington, Leicestershire, DE74 2TQ	Civil Engineers	Engineering Services



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ID	Location	Company	Address	Activity	Category
11	72m E	Gantry	Leicestershire, DE74	Travelling Cranes and Gantries	Industrial Features
I	74m NW	Tank	Leicestershire, DE74	Tanks (Generic)	Industrial Features
Е	75m N	National Grid	Osprey House 5, Hunter Road, Castle Donington, Leicestershire, DE74 2TQ	Electrical Production and Manipulation Equipment	Industrial Products
I	77m NW	Tank	Leicestershire, DE74	Tanks (Generic)	Industrial Features
F	79m NW	Tank	Leicestershire, DE74	Tanks (Generic)	Industrial Features
13	85m NW	Balancing Pond	Leicestershire, DE74	Settling, Balancing and Silt Ponds	Bodies of Water
14	89m W	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
G	90m NW	Pylon	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
F	92m NW	Advantage Flight Support	Building 10, Viscount Road, Castle Donington, Leicestershire, DE74 2SA	Aircraft Charters	Contract Services
F	93m NW	North Air Ltd	BP Fuel Farm Building 10, East Midlands Airport, Castle Donington, Derby, Leicestershire, DE74 2SA	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
15	96m NE	Gas Governor	Leicestershire, DE74	Gas Features	Infrastructure and Facilities
16	98m NE	Gantry	Leicestershire, DE74	Travelling Cranes and Gantries	Industrial Features
17	111m W	Pump House	Leicestershire, DE74	Water Pumping Stations	Industrial Features
G	112m NW	Mast (Telecommu nication)	Leicestershire, DE74	Telecommunications Features	Infrastructure and Facilities
18	113m NW	Mast (Telecommu nication)	Leicestershire, DE74	Telecommunications Features	Infrastructure and Facilities
19	114m W	East Midlands Mini Bus	9 Cheslyn Court, Diseworth, Derby, Leicestershire, DE74 2SJ	Vehicle Hire and Rental	Hire Services
Е	116m N	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities

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ID	Location	Company	Address	Activity	Category
G	118m NW	Electricity	Leicestershire, DE74	Electrical Features	Infrastructure and
		Sub Station	,		Facilities
F	124m NW	Auto Service Centre	Building 9, Viscount Road, Castle Donington, Leicestershire, DE74 2SA	Vehicle Repair, Testing and Servicing	Repair and Servicing
J	128m E	Moto Donington Park	Junction 23a M 1, Castle Donington, Derby, Leicestershire, DE74 2TN	Petrol and Fuel Stations	Road and Rail
J	133m E	Castle Donington Motorway Service Area	Junction 23a M1, Castle Donington, Derby, Leicestershire, DE74 2TN	Motorway Service Stations	Road and Rail
22	134m W	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
K	136m N	Avis Rent A Car	Building 75c, Argosy Road, Castle Donington, Leicestershire, DE74 2SA	Vehicle Hire and Rental	Hire Services
L	136m W	East Midlands Airport	Beverley Road, Castle Donington, Leicestershire, DE74 2SA	Energy Production	Industrial Features
23	137m E	Gantry	Leicestershire, DE74	Travelling Cranes and Gantries	Industrial Features
K	137m N	Nippon Express UK Ltd	Building 75a, Argosy Road, Castle Donington, Leicestershire, DE74 2SA	Distribution and Haulage	Transport, Storage and Delivery
24	137m W	East Midlands Airport Turbine	Leicestershire, DE74	Energy Production	Industrial Features
25	138m NW	Balancing Pond	Leicestershire, DE74	Settling, Balancing and Silt Ponds	Bodies of Water
26	153m NW	Denata	Building 17, Viscount Road, Castle Donington, Leicestershire, DE74 2SA	Aeroplanes	Industrial Products
M	156m N	Midlands Chauffeurs Ltd	Herald Way, Castle Donington, Derby, Leicestershire, DE74 2TZ	Vehicle Hire and Rental	Hire Services
L	158m W	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
27	160m W	East Midlands Airport Turbine	Leicestershire, DE74	Energy Production	Industrial Features





ID	Location	Company	Address	Activity	Category
N	162m NE	Direct Link	Regus House, Herald Way, East Midlands Airport, Castle Donington, Leicestershire, DE74 2TZ	Airlines and Airline Services	Transport, Storage and Delivery
M	162m N	Air Logistics Ltd	Pwc Ground Floor West Wing, Donington Court, Herald Way, East Midlands Airport, Castle Donington, Leicestershire, DE74 2UZ	Airlines and Airline Services	Transport, Storage and Delivery
M	162m N	Heavyweigh t Air Express Ltd	Pwc Ground Floor West Wing, Donington Court, Herald Way, East Midlands Airport, Castle Donington, Leicestershire, DE74 2UZ	Distribution and Haulage	Transport, Storage and Delivery
Ν	163m NE	Onyx Transport	Regus House, Herald Way, East Midlands Airport, Castle Donington, Leicestershire, DE74 2TZ	Vehicle Hire and Rental	Hire Services
N	163m NE	Heart in Diamond	Regus House, Herald Way, East Midlands Airport, Castle Donington, Leicestershire, DE74 2TZ	Jewellery, Gems, Clocks and Watches	Consumer Products
0	165m N	Business Park	Leicestershire, DE74	Business Parks and Industrial Estates	Industrial Features
28	168m W	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
Р	181m NW	BP Service Station	H K S Airport Service, Castle Donington, Derby, Leicestershire, DE74 2SA	Petrol and Fuel Stations	Road and Rail
0	188m N	Labflex Ltd	Ground Floor 1 Plot 1a Unit A, Herald Way, East Midlands Airport, Castle Donington, Leicestershire, DE74 2TZ	Measurement and Inspection Equipment	Industrial Products
0	188m N	Logical Storage Solutions	Unit 1b Herald Way, Pegasus Business Park, Castle Donington, Derby, Leicestershire, DE74 2TZ	Shelving, Storage, Safes and Vaults	Industrial Products
Р	188m NW	Hks Airport	East Midlands Airport, Castle Donington, Derby, Leicestershire, DE74 2SA	Vehicle Cleaning Services	Personal, Consumer and Other Services
29	192m W	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
0	196m N	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
30	201m N	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
31	206m W	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities





ID	Looption	Company	Advoca	Activity	Catagoni
ID	Location	Company	Address	Activity	Category
32	206m NW	Eastwest Cargo Services Ltd	Building 101, Beverley Road, East Midlands Distribution and Haulage Airport, Castle Donington, Leicestershire, DE74 2SA		Transport, Storage and Delivery
33	211m N	Railvision	Unit 2 Cygnus Court, Beverley Road, East Midlands Airport, Castle Donington, Leicestershire, DE74 2SA Railway Companies and Information		Transport, Storage and Delivery
34	215m SW	Works	Leicestershire, DE74	Unspecified Works Or Factories	Industrial Features
35	221m NW	Castle Donington Fire Station	Building 97, Beverley Road, East Midlands Airport, Castle Donington, Leicestershire, DE74 2SA	Fire Brigade Stations	Central and Local Government
Q	223m N	Davies Turner & Co Ltd	Building 70a 70b, Argosy Road, Castle Donington, Leicestershire, DE74 2SA	Distribution and Haulage	Transport, Storage and Delivery
R	226m N	Rubix	Air Cargo Centre Unit 440 Argosy Road, Castle Donington, Derby, Leicestershire, DE74 2SA	Distribution and Haulage	Transport, Storage and Delivery
Q	228m N	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
S	229m NW	Electricity Sub Station	Leicestershire, DE74	Electrical Features	Infrastructure and Facilities
36	236m SE	Gantry	Leicestershire, LE12	Travelling Cranes and Gantries	Industrial Features
R	238m N	H G V Direct Ltd	Unit 441 Air Cargo Centre, Argosy Road, Castle Donington, Leicestershire, DE74 2SA	Vehicle Parts and Accessories	Motoring
S	244m NW	B C T Aviation Maintenanc e Ltd	Office 07 Building 100, Beverley Road, East Midlands Airport, Castle Donington, Leicestershire, DE74 2SA	Aviation Engineers	Engineering Services
38	245m E	Gantry	Leicestershire, DE74	Travelling Cranes and Gantries	Industrial Features
S	247m NW	Amber Beverage UK Ltd	Building 100, Castle Donington, Derby, Leicestershire, DE74 2SA	Distribution and Haulage	Transport, Storage and Delivery

This data is sourced from Ordnance Survey.





### 4.2 Current or recent petrol stations

Records within 500m 2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on page 41 >

ID	Location	Company	Address	LPG	Status
G	58m W	ВР	East Midlands Airport, Castle Donington, Derby, Leicestershire, DE74 2SA	No	Open
21	130m NE	ВР	M1 J23a, A453, Castle Donington, Derby, Leicestershire, DE74 2TN	No	Open

This data is sourced from Experian.

#### 4.3 Electricity cables

Records within 500m 0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

#### 4.4 Gas pipelines

Records within 500m 0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

#### 4.5 Sites determined as Contaminated Land

Records within 500m

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

## 4.6 Control of Major Accident Hazards (COMAH)

Records within 500m 0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.





This data is sourced from the Health and Safety Executive.

#### 4.7 Regulated explosive sites

Records within 500m 0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

#### 4.8 Hazardous substance storage/usage

Records within 500m 0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

### 4.9 Historical licensed industrial activities (IPC)

Records within 500m 0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 4.10 Licensed industrial activities (Part A(1))

Records within 500m 0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m 11

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on page 41 >





ID	Location	Address	Details	
Н	79m NE	Moto Hospitality Ltd (BP), Donington Park Service Station, Junction 23A, Ashby Road, Castle Donington, Derby, DE74 2TN	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified
Р	177m NW	HKS Retail Ltd, Building 7, Dove Road, Castle Donington, Derby, Leicestershire, DE74 2SA	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified
37	240m NW	Servisair (UK) Limited, Cargo Unit Building 96, East Midlands Airport, Castle Donnington, Derbyshire, DE74 2SA	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified
S	244m NW	Hunting Aviation, E Midlands Airport, DE74 2SA	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified
39	251m NW	Rh Aircargo Limited, Building 109/110, East Midlands Airport, Castle Donnington, Derbyshire, DE74 2SA	Process: Flexible Packaging Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified
41	258m W	Airbourne Colours Limited, Building 35 Dakota Road, Castle Donington, Derby, Leicestershire, DE74 2SA	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified
Т	282m NW	Ndt Services Limited, Building 38, Vanguard Road, East Midlands Airport, Castle Donnington, Derbyshire, DE74 2SA	Process: Industrial Radiography And Training Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified





ID	Location	Address	Details	
Т	287m NW	Dhl Aviation (UK) Limited, Cargo Terminal 2, East Midlands Airport, Castle Donnington, Derbyshire, DE74 2SA	Process: Storage in Transit Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified
Т	287m NW	Rh Freight Limited, Cargo Building 2, East Midlands Airport, Castle Donnington, Derbyshire, DE74 2SA	Process: Process Unknown Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified
42	307m NW	HKS Retail Ltd, Airport, East Midlands Airport Ltd, NEMA, Castle Donington, Derbys, DE74 2SA	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified
44	383m NW	Servisair (UK) Limited, Cargo Terminal 4, East Midlands Airport, Castle Donnington, Derbyshire, DE74 2SA	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements notified Date of enforcement: No enforcements notified Comment: No enforcements notified

This data is sourced from Local Authority records.

#### 4.12 Radioactive Substance Authorisations

**Records within 500m** 0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

# 4.13 Licensed Discharges to controlled waters

Records within 500m 12

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991. Features are displayed on the Current industrial land use map on page 41 >





ID	Location	Address	Details	
Α	On site	EASTMIDLANDSAIRPORT,CASTLED ONINGTON,DERBY,DERBYSHIRE,D E742SA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/57/45295/T Permit Version: 1 Receiving Water: LONG WHATTON BROOK & R TRENT	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 24/05/1999 Effective Date: 24/05/1999 Revocation Date: 01/06/2003
Α	On site	EASTMIDLANDSAIRPORT,CASTLED ONINGTON,DERBY,DERBYSHIRE,D E742SA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/57/22960/T Permit Version: 1 Receiving Water: TRIBS OF LONG WHATTON BROOK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 20/01/1995 Effective Date: 01/04/1995 Revocation Date: 23/05/1999
Α	On site	EASTMIDLANDSAIRPORT,CASTLED ONINGTON,DERBY,DERBYSHIRE,D E742SA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/57/22960/T Permit Version: 1 Receiving Water: TRIBS OF LONG WHATTON BROOK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 20/01/1995 Effective Date: 01/04/1995 Revocation Date: 23/05/1999
Α	On site	EASTMIDLANDSAIRPORT,CASTLED ONINGTON,DERBY,DERBYSHIRE,D E742SA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/57/45295/T Permit Version: 2 Receiving Water: LONG WHATTON BROOK&RIVER TRENT	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 02/06/2003 Effective Date: 02/06/2003 Revocation Date: 23/10/2018
В	2m W	EASTMIDLANDSAIRPORT,CASTLED ONINGTON,DERBY,DERBYSHIRE,DE 742SA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/57/45295/T Permit Version: 2 Receiving Water: LONG WHATTON BROOK&RIVER TRENT	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 02/06/2003 Effective Date: 02/06/2003 Revocation Date: 23/10/2018
В	2m W	EASTMIDLANDSAIRPORT,CASTLED ONINGTON,DERBY,DERBYSHIRE,DE 742SA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/57/45295/T	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)
			Permit Version: 1 Receiving Water: LONG WHATTON BROOK & R TRENT	Issue date: 24/05/1999 Effective Date: 24/05/1999 Revocation Date: 01/06/2003





ID	Location	Address	Details	
В	7m W	EASTMIDLANDSAIRPORT,CASTLED ONINGTON,DERBY,DERBYSHIRE,DE 742SA	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: T/57/45295/T Permit Version: 3 Receiving Water: LONG WHATTON BROOK&RIVER TRENT	Status: VARIED UNDER EPR 2010 Issue date: 24/10/2018 Effective Date: 24/10/2018 Revocation Date: -
40	252m W	EASTMIDLANDSAIRPORT,CASTLED ONNINGTON,DERBYSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WQ/72/2636 Permit Version: 1 Receiving Water: UNDERGROUND STRATA	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 31/08/1979 Effective Date: 31/08/1979 Revocation Date: -
43	316m SW	DISEWORTHLGWHATTONPSSTME MG,DISEWORTHPUMPINGSTATION ,LONGWHATTONPUMPINGSTATIO N,LEICESTERSHIRE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: T/57/01487/O Permit Version: 1 Receiving Water: LONG WHATTON/DISEWORTH BROOKS	Status: 1961 R(PP)A APPLICATION REFUSED Issue date: 07/02/1966 Effective Date: 07/02/1966 Revocation Date: 01/03/2001
U	361m SW	LADYGATESTORMEMERGENCYOF,D ISEWORTH,LEICESTERSHIRE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: T/57/08273/O Permit Version: 1 Receiving Water: LONG WHATTON/DISEWORTH BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 09/12/1980 Effective Date: 09/12/1980 Revocation Date: -
U	361m SW	LADYGATESTORMEMERGENCYOF,D ISEWORTH,LEICESTERSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/57/08273/O Permit Version: 1 Receiving Water: LONG WHATTON/DISEWORTH BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 09/12/1980 Effective Date: 09/12/1980 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

# 4.14 Pollutant release to surface waters (Red List)

Records within 500m

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.





### 4.15 Pollutant release to public sewer

Records within 500m 0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

#### **4.16 List 1 Dangerous Substances**

Records within 500m 0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

### **4.17 List 2 Dangerous Substances**

Records within 500m 0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 4.18 Pollution Incidents (EA/NRW)

Records within 500m 4

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on <a href="majore">page 41</a> >

ID	Location	Details	
С	3m SE	Incident Date: 15/07/2002 Incident Identification: 91518 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
12	80m W	Incident Date: 10/12/2002 Incident Identification: 125485 Pollutant: Oils and Fuel Pollutant Description: Kerosene and Aviation Fuel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)





ID	Location	Details	
20	115m NW	Incident Date: 09/11/2002 Incident Identification: 119771 Pollutant: Oils and Fuel Pollutant Description: Kerosene and Aviation Fuel	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	254m N	Incident Date: 09/10/2003 Incident Identification: 195219 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

## 4.19 Pollution inventory substances

Records within 500m 0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

## **4.20 Pollution inventory waste transfers**

Records within 500m 0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

## **4.21** Pollution inventory radioactive waste

Records within 500m

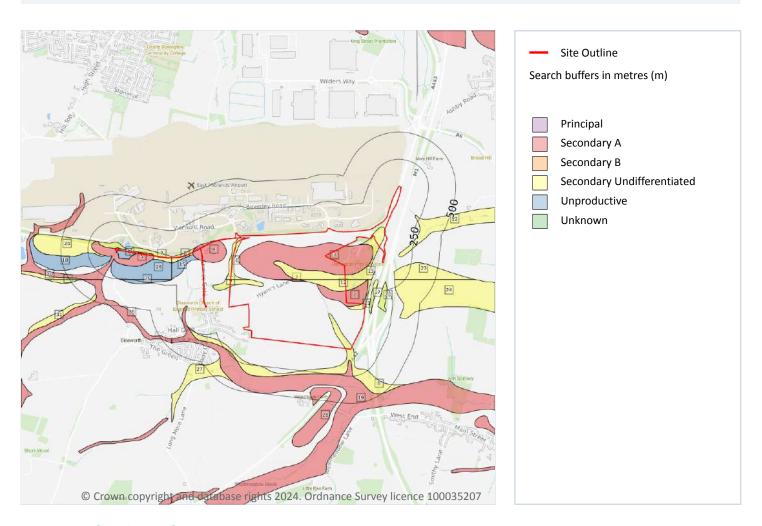
The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.





# 5 Hydrogeology - Superficial aquifer



# 5.1 Superficial aquifer

Records within 500m 31

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on page 55 >

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers





ID	Location	Designation	Description
3	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
10	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
11	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
12	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
13	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
14	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
15	14m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
16	27m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow





ID	Location	Designation	Description
17	41m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
18	60m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
19	102m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
20	108m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
21	118m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
22	125m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
23	129m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
24	187m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
25	198m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
26	289m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
27	335m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
28	371m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
29	403m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
30	408m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type





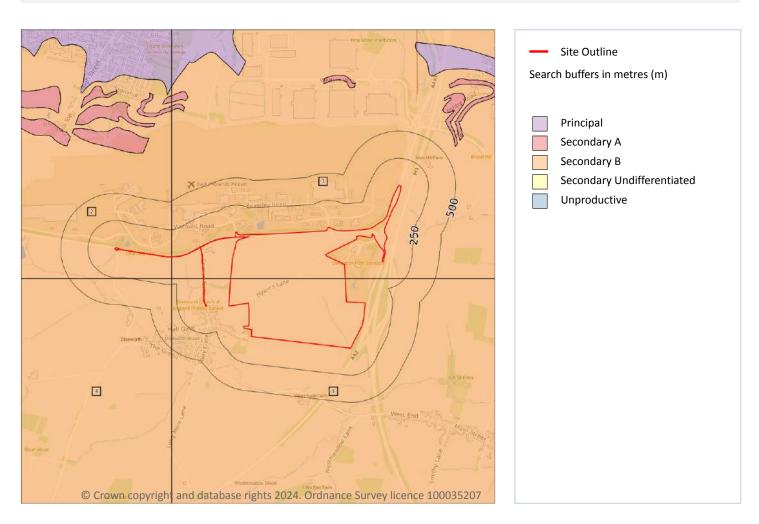
ID	Location	Designation	Description
31	433m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.





# **Bedrock aquifer**



# 5.2 Bedrock aquifer

Records within 500m 4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on page 59 >

ID	Location	Designation	Description
1	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers





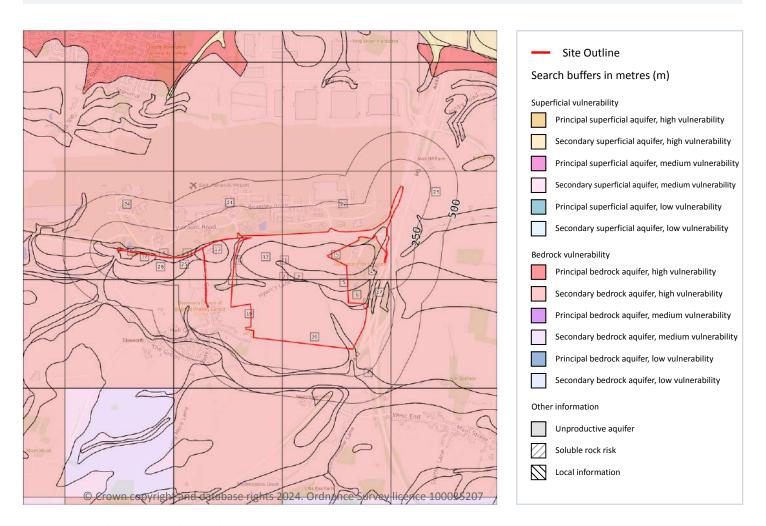
ID	Location	Designation	Description
3	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
4	198m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.





# **Groundwater vulnerability**



# 5.3 Groundwater vulnerability

Records within 50m 27

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium Intermediate between high and low vulnerability.
- Low Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on page 61 >





ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures





ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
8	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures





ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
13	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
14	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
15	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
16	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
17	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
18	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures





ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
19	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
20	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
21	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
22	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
		140 Superficial Aquilei	<300mm/year		
23	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
24	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer,	Leaching class: Intermediate Infiltration value: <40% Dilution value:	Aquifer type: - Thickness: <3m Patchiness value: <90%	Aquifer type: Secondary Flow mechanism: Well





ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
26	27m W	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
27	41m E	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

## 5.4 Groundwater vulnerability- soluble rock risk

Records on site 0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

#### 5.5 Groundwater vulnerability- local information

Records on site 0

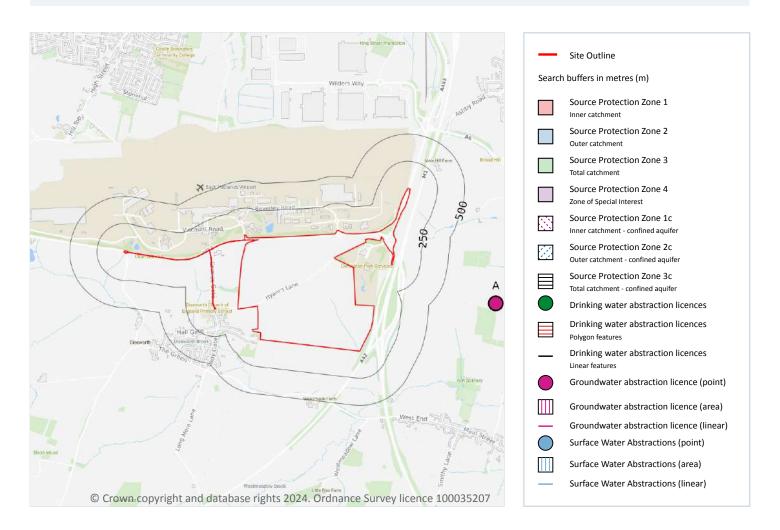
This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on <a href="mailto:enquiries@environment-agency.gov.uk">enquiries@environment-agency.gov.uk</a>.

This data is sourced from the British Geological Survey and the Environment Agency.





### **Abstractions and Source Protection Zones**



#### 5.6 Groundwater abstractions

Records within 2000m 10

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on page 67 >





ID	Location	Details	
A	1016m E	Status: Active Licence No: 03/28/57/0108 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: WHATTON HOUSE, NR LONG WHATTON - B/HOLE Data Type: Point Name: LORD CRAWSHAW Easting: 447900 Northing: 324800	Annual Volume (m³): 4773.3  Max Daily Volume (m³): 45.46  Original Application No: - Original Start Date: 12/05/1966  Expiry Date: - Issue No: 100  Version Start Date: 01/04/2008  Version End Date: -
A	1016m E	Status: Active Licence No: 03/28/57/0108 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: WHATTON HOUSE, NR LONG WHATTON - B/HOLE Data Type: Point Name: LORD CRAWSHAW Easting: 447900 Northing: 324800	Annual Volume (m³): 4773.3  Max Daily Volume (m³): 45.46  Original Application No: -  Original Start Date: 12/05/1966  Expiry Date: -  Issue No: 100  Version Start Date: 01/04/2008  Version End Date: -
-	1560m S	Status: Historical Licence No: 03/28/57/0008 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: RISTE FARM Data Type: Point Name: CLOWES Easting: 445700 Northing: 322900	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 02/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1801m NE	Status: Historical Licence No: 03/28/59/0003 Details: Non-Evaporative Cooling Direct Source: Groundwater Midlands Region Point: KEGWORTH - CATCHPIT Data Type: Point Name: SLACK & PARR LTD Easting: 448500 Northing: 327000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 07/04/1970 Version End Date: -
-	1801m NE	Status: Historical Licence No: 03/28/59/0003 Details: Process Water Direct Source: Groundwater Midlands Region Point: KEGWORTH - CATCHPIT Data Type: Point Name: SLACK & PARR LTD Easting: 448500 Northing: 327000	Annual Volume (m³): 9999 Max Daily Volume (m³): 227 Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2005 Version End Date: -





ID	Location	Details	
-	1935m NE	Status: Historical Licence No: 03/28/59/0003 Details: Non-Evaporative Cooling Direct Source: Groundwater Midlands Region Point: KEGWORTH - WELLS Data Type: Point Name: SLACK & PARR LTD Easting: 448500 Northing: 327200	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 07/04/1970 Version End Date: -
-	1935m NE	Status: Historical Licence No: 03/28/59/0003 Details: Non-Evaporative Cooling Direct Source: Groundwater Midlands Region Point: KEGWORTH-WELL Data Type: Point Name: SLACK & PARR LTD Easting: 448500 Northing: 327200	Annual Volume (m³): 9999 Max Daily Volume (m³): 227 Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2005 Version End Date: -
-	1935m NE	Status: Historical Licence No: 03/28/59/0003 Details: Process Water Direct Source: Groundwater Midlands Region Point: KEGWORTH - WELLS Data Type: Point Name: SLACK & PARR LTD Easting: 448500 Northing: 327200	Annual Volume (m³): 9999 Max Daily Volume (m³): 227 Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2005 Version End Date: -
-	1942m NE	Status: Historical Licence No: 03/28/59/0003 Details: Non-Evaporative Cooling Direct Source: Groundwater Midlands Region Point: KEGWORTH - CATCHPIT Data Type: Point Name: SLACK & PARR LTD Easting: 448500 Northing: 327210	Annual Volume (m³): 9999 Max Daily Volume (m³): 227 Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2005 Version End Date: -
-	1959m NE	Status: Historical Licence No: 03/28/59/0006 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: BOWLING GREEN - WELL Data Type: Point Name: KEGWORTH BOWLS CLUB Easting: 448700 Northing: 327000	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 12/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.





#### 5.7 Surface water abstractions

Records within 2000m 1

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on page 67 >

ID	Location	Details	
-	1524m N	Status: Historical Licence No: 03/28/59/0004 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface Water Midlands Region Point: LOCKINGTON - SPRINGS Data Type: Point Name: EXECUTORS OF J CURZON Easting: 446600 Northing: 327300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 26/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 5.8 Potable abstractions

Records within 2000m

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

#### **5.9 Source Protection Zones**

Records within 500m 0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.





# **5.10 Source Protection Zones (confined aquifer)**

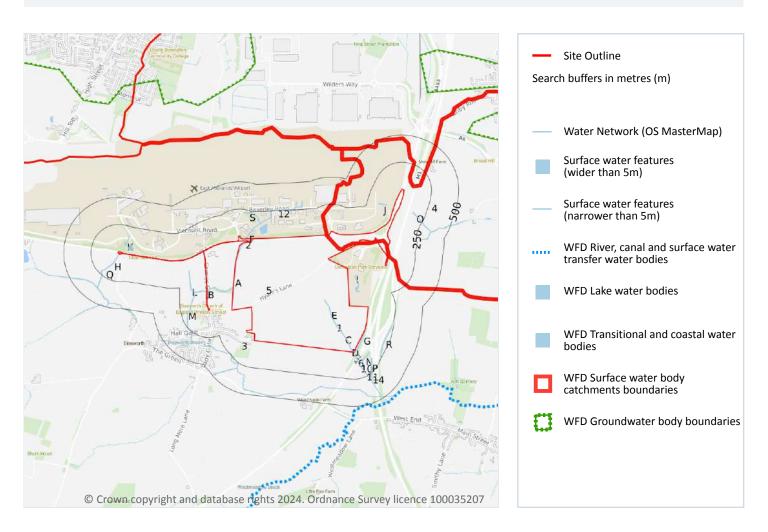
Records within 500m 0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.





# **6 Hydrology**



# **6.1 Water Network (OS MasterMap)**

Records within 250m 61

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on page 72 >

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-





1D 2	Location On site	Type of water feature	Ground level	Permanence	Name
2	On site				Name
		Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Α	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
С	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	3m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	4m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	5m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Н	6m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	10m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B D	3m W 4m SE	Inland river not influenced by normal tidal action.  Inland river not influenced by normal tidal action.  Inland river not influenced by normal tidal action.	On ground surface Underground	water year round (in normal circumstances)  Watercourse contains water year round (in normal circumstances)  Watercourse contains water year round (in normal circumstances)  Watercourse contains water year round (in normal circumstances)	-



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ID	Location	Type of water feature	Ground level	Permanence	Name
D	10m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	13m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	13m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
D	16m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	62m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	65m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	65m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	65m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	66m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	69m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	76m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	86m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	87m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-





ID	Location	Type of water feature	Ground level	Permanence	Name
I	93m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	93m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	94m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	94m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	99m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	99m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	107m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	107m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	108m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	114m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	116m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
10	126m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
0	129m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

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ID	Location	Type of water feature	Ground level	Permanence	Name
K	129m W	Inland river not influenced by normal tidal action.		Watercourse contains water year round (in normal circumstances)	-
F	130m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	131m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	137m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	137m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	150m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	156m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	158m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Р	168m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	169m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	179m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
12	182m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	188m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



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ID	Location	Type of water feature	Ground level	Permanence	Name
Q	192m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
0	199m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
0	205m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	207m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	213m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	219m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	235m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
0	249m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

### **6.2 Surface water features**

Records within 250m 32

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on page 72 >

This data is sourced from the Ordnance Survey.





# **6.3 WFD Surface water body catchments**

Records on site 2

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on page 72 >

ID	Location	Туре	Water body catchment	Water body ID	Operational catchment	Management catchment
3	On site	River	Long Whatton Brook Catchment (trib of Soar)	GB104028047170	Soar River	Soar
4	On site	River	Soar from Long Whatton Brook to Trent	GB104028047212	Soar River	Soar

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 6.4 WFD Surface water bodies

Records identified 2

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on page 72 >

ID	Location	Туре	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
33	492m SE	River	Long Whatton Brook Catchment (trib of Soar)	GB104028047170 ↗	Moderate	Fail	Moderate	2019
-	2003m NE	River	Soar from Long Whatton Brook to Trent	GB104028047212 ⊅	Moderate	Fail	Moderate	2019





1

#### 6.5 WFD Groundwater bodies

Records on site

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on page 72 >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
5	On site	Soar - Secondary Combined	GB40402G990600 7	Good	Good	Good	2019





# 7 River and coastal flooding

# 7.1 Risk of flooding from rivers and the sea

Records within 50m 0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 7.2 Historical Flood Events

Records within 250m 0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 7.3 Flood Defences

Records within 250m 0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.





### 7.4 Areas Benefiting from Flood Defences

Records within 250m 0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

# 7.5 Flood Storage Areas

Records within 250m 0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.





# **River and coastal flooding - Flood Zones**

### 7.6 Flood Zone 2

Records within 50m 0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 7.7 Flood Zone 3

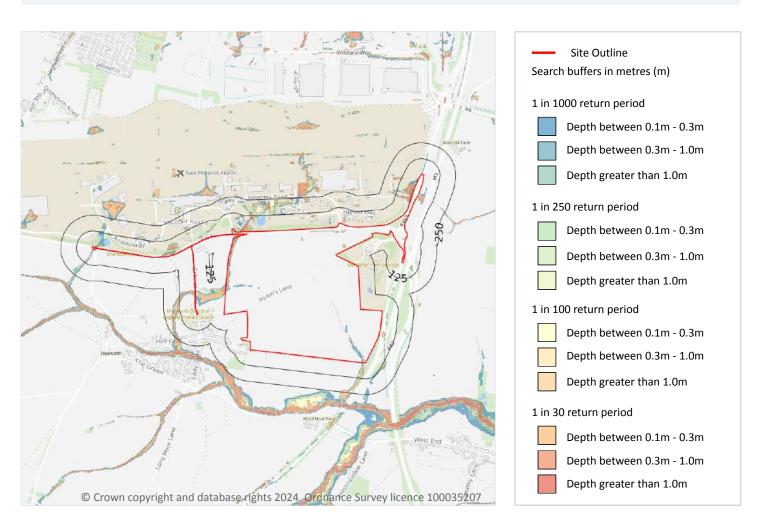
Records within 50m

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.





# 8 Surface water flooding



## 8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

#### Highest risk within 50m

1 in 30 year, Greater than 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on page 83 >

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.





The table below shows the maximum flood depths for a range of return periods for the site.

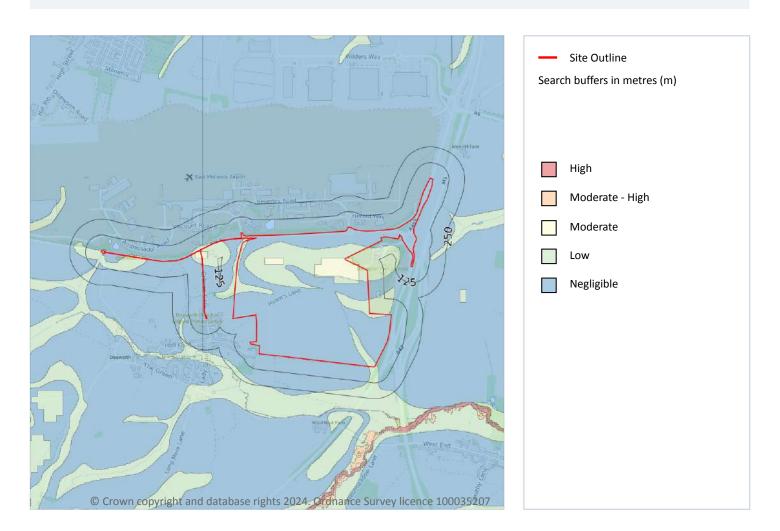
Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.





# 9 Groundwater flooding



# 9.1 Groundwater flooding

ı	Highest risk on site	Moderate
ı	Highest risk within 50m	Moderate

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

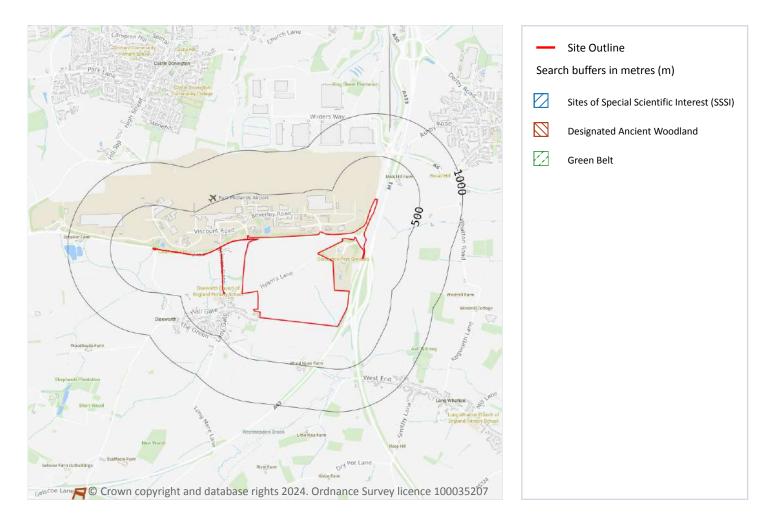
Features are displayed on the Groundwater flooding map on page 85 >

This data is sourced from Ambiental Risk Analytics.





# **10 Environmental designations**



# 10.1 Sites of Special Scientific Interest (SSSI)

#### Records within 2000m 0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were renotified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.





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# 10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

## **10.3 Special Areas of Conservation (SAC)**

Records within 2000m 0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

# 10.4 Special Protection Areas (SPA)

Records within 2000m 0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

### 10.5 National Nature Reserves (NNR)

Records within 2000m 0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.





### 10.6 Local Nature Reserves (LNR)

Records within 2000m 0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

### 10.7 Designated Ancient Woodland

Records within 2000m 1

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on page 86 >

ID	Location	Name	Woodland Type
-	1880m W	Unknown	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

#### 10.8 Biosphere Reserves

Records within 2000m

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

### **10.9 Forest Parks**

Records within 2000m 0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.



Date: 13 December 2024



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#### 10.10 Marine Conservation Zones

Records within 2000m 0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

#### 10.11 Green Belt

Records within 2000m

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

# 10.12 Proposed Ramsar sites

Records within 2000m 0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

## 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m 0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

# 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m 0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



Date: 13 December 2024



#### **10.15 Nitrate Sensitive Areas**

Records within 2000m 0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

### **10.16 Nitrate Vulnerable Zones**

Records within 2000m 8

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Туре	NVZ ID	Status
On site	SOAR R NVZ	Surface Water	309	Existing
125m NE	SOAR R NVZ	Surface Water	309	Existing
388m W	SOAR R NVZ	Surface Water	309	Existing
646m NE	Burton	Groundwater	34	Existing
800m NW	SOAR R NVZ	Surface Water	309	Existing
1036m NW	Burton	Groundwater	34	Existing
1506m E	Burton	Groundwater	34	Existing
1743m NW	SOAR R NVZ	Surface Water	309	Existing

This data is sourced from Natural England and Natural Resources Wales.





# **SSSI Impact Zones and Units**



## 10.17 SSSI Impact Risk Zones

Records on site 2

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on page 91 >





ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals.  Minerals, Oil and Gas - Oil & gas exploration/extraction.  Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.  Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.
2	On site	Infrastructure - Airports, helipads and other aviation proposals.  Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.  Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.  Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.

This data is sourced from Natural England.

### 10.18 SSSI Units

Records within 2000m 0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

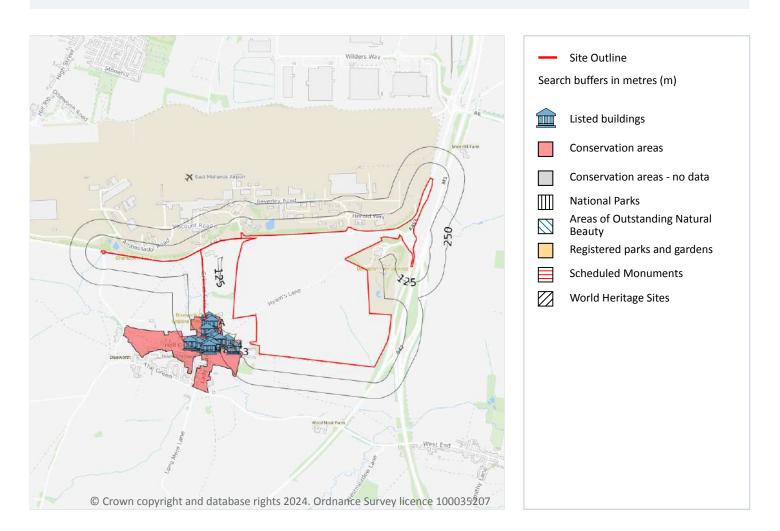
This data is sourced from Natural England and Natural Resources Wales.



Date: 13 December 2024



# 11 Visual and cultural designations



## 11.1 World Heritage Sites

#### Records within 250m 0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.





# 11.2 Area of Outstanding Natural Beauty

Records within 250m 0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

#### 11.3 National Parks

Records within 250m 0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

## 11.4 Listed Buildings

Records within 250m 19

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on page 93 >

ID	Location	Name	Grade	Reference Number	Listed date
Α	16m W	Old Hall Farmhouse	II	1064263	07/12/1962
А	25m W	Barn Approximately 10 Metres To South West Of Old Hall Farmhouse	II	1075160	16/01/1989
А	31m W	Barn Approximately 10 Metres To South Of Old Hall Farmhouse	II	1359387	16/01/1989
А	52m W	Barn Approximately 30 Metres To South East Of Old Hall Farmhouse	II	1076677	16/01/1989





ID	Location	Name	Grade	Reference Number	Listed date
2	91m W	White House Farm House	П	1068886	07/12/1962
3	138m SW	20, Clements Gate	II	1064261	16/01/1989
В	141m W	Number 4 With Steps And Railings	II	1359386	16/01/1989
В	159m SW	Stables At Number 4	П	1343627	16/01/1989
4	179m SW	13, Clements Gate	П	1064260	22/03/1974
С	191m SW	Diseworth War Memorial	П	1453170	27/04/2018
5	201m SW	1 And 3, Clements Gate	П	1068769	27/04/1987
С	202m SW	Number 2 (Cross Farmhouse) With Walls, Railings And Gate To Front	П	1068841	16/01/1989
6	210m W	31, Hall Gate	П	1064265	27/08/1986
D	212m SW	Lilly's Cottage	П	1064266	07/12/1962
7	212m SW	50, Hall Gate	П	1359388	07/12/1962
8	222m SW	Church Of St Michael	*	1068865	07/12/1962
D	223m SW	K6 Telephone Kiosk	II	1389683	18/10/2000
9	229m W	25, Hall Gate	II	1076681	27/08/1986
D	230m SW	Barn 25 Metres South South East Of Number 2 (Cross Farmhouse)	II	1359385	16/01/1989

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

#### 11.5 Conservation Areas

Records within 250m

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

Features are displayed on the Visual and cultural designations map on page 93 >

ID	Location	Name	District	Date of designation
1	On site	Diseworth	North West Leicestershire	13/02/1974

This data is sourced from Historic England, Cadw and Historic Environment Scotland.





#### 11.6 Scheduled Ancient Monuments

Records within 250m 0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

# **11.7 Registered Parks and Gardens**

Records within 250m 0

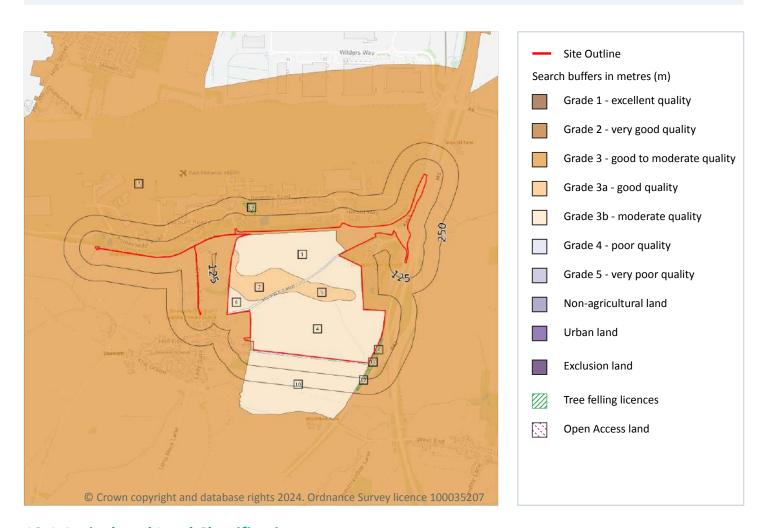
Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.





# 12 Agricultural designations



# 12.1 Agricultural Land Classification

# Records within 250m 7

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on page 97 >

ID	Location	Classification	Description
1	On site	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.





ID	Location	Classification	Description
2	On site	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
4	On site	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
5	On site	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
6	On site	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
7	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
10	12m SE	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

This data is sourced from Natural England.

# 12.2 Open Access Land

### Records within 250m 0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

# **12.3 Tree Felling Licences**

#### Records within 250m 4

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on page 97 >





ID	Location	Description	Reference	Application date
9	7m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
11	16m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
12	53m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
13	135m NW	Clear Fell (Conditional)	017/401/14-15	19/02/2015

This data is sourced from the Forestry Commission.

# 12.4 Environmental Stewardship Schemes

Records within 250m 1

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
227m E	AG00591636	Entry Level plus Higher Level Stewardship	01/10/2014	30/09/2024

This data is sourced from Natural England.

# 12.5 Countryside Stewardship Schemes

Records within 250m

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

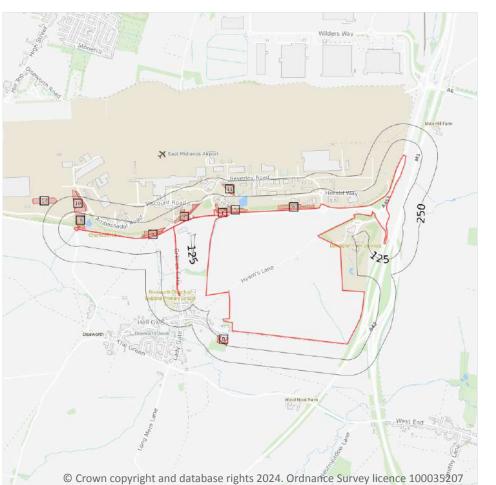
Location	Reference	Scheme	Start Date	End Date
On site	1052833	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025

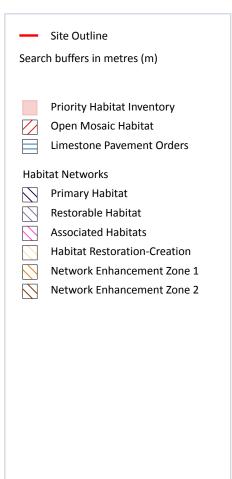
This data is sourced from Natural England.





# 13 Habitat designations





# **13.1 Priority Habitat Inventory**

Records within 250m 18

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on <a href="majore">page 100</a> >

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	2m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	4m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



Date: 13 December 2024



ID	Location	Main Habitat	Other habitats
А	5m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	7m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	8m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	9m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
А	13m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	34m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
В	65m SW	Traditional orchard	Main habitat: TORCH (INV > 50%)
9	82m SW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
В	82m SW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
10	121m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	135m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	154m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	213m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
14	247m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

#### 13.2 Habitat Networks

Records within 250m 0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

## 13.3 Open Mosaic Habitat

Records within 250m 0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.





#### 13.4 Limestone Pavement Orders

Records within 250m 0

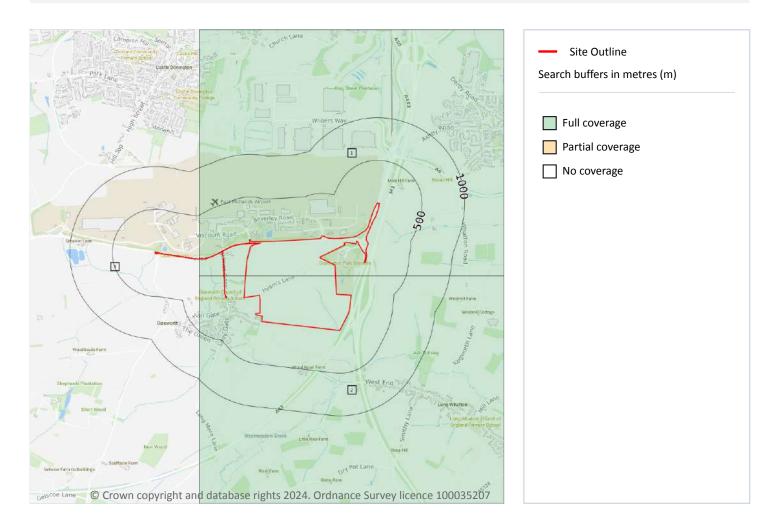
Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.





# 14 Geology 1:10,000 scale - Availability



# 14.1 10k Availability

#### Records within 500m 3

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on page 103 >

2	On site On site	Full	Full	Full	No coverage	SK42NE SK42SE
2	On site	Full	Full	Full	No coverage	SK42SE
3	On site	No coverage	No coverage	No coverage	No coverage	NoCov

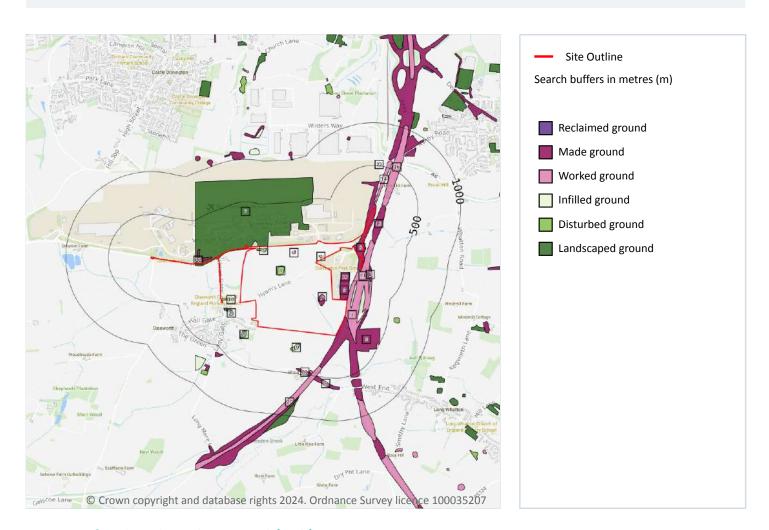
This data is sourced from the British Geological Survey.



Date: 13 December 2024



# Geology 1:10,000 scale - Artificial and made ground



# 14.2 Artificial and made ground (10k)

Records within 500m 27

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on page 104 >

ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	Worked Ground (Undivided)	Void
2	On site	WGR-VOID	Worked Ground (Undivided)	Void
3	On site	WGR-VOID	Worked Ground (Undivided)	Void
4	On site	DDGR-UKNOWN	Disturbed Ground (Undivided)	Unknown/unclassified Entry



Date: 13 December 2024



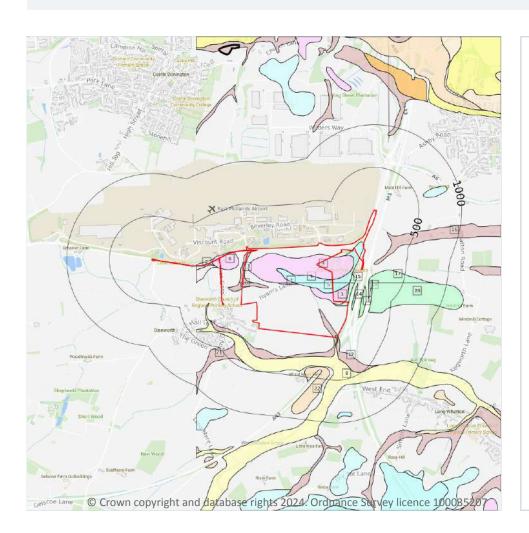
ID	Location	LEX Code	Description	Rock description
			·	·
5	On site	DDGR-UKNOWN	Disturbed Ground (Undivided)	Unknown/unclassified Entry
6	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	On site	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
8	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
Α	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
Α	On site	WGR-VOID	Worked Ground (Undivided)	Void
9	3m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	3m W	DDGR-UKNOWN	Disturbed Ground (Undivided)	Unknown/unclassified Entry
11	6m E	WGR-VOID	Worked Ground (Undivided)	Void
12	13m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
13	40m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
14	40m NE	WGR-VOID	Worked Ground (Undivided)	Void
15	69m W	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
16	84m NE	WGR-VOID	Worked Ground (Undivided)	Void
В	90m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
17	104m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
18	141m SW	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
19	147m S	DDGR-UKNOWN	Disturbed Ground (Undivided)	Unknown/unclassified Entry
В	184m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
20	378m S	WGR-VOID	Worked Ground (Undivided)	Void
21	435m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
22	489m NE	WGR-VOID	Worked Ground (Undivided)	Void
23	494m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.





# Geology 1:10,000 scale - Superficial



Site OutlineSearch buffers in metres (m)

Landslip (10k)

Superficial geology (10k) Please see table for more details.

### 14.3 Superficial geology (10k)

### Records within 500m 22

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on page 106 >

ID	Location	LEX Code	Description	Rock description
1	On site	ODT-DMTN	Oadby Member - Diamicton	Diamicton
2	On site	THT-DMTN	Thrussington Member - Diamicton	Diamicton
3	On site	GFDUA-XSV	Glaciofluvial Deposits, Anglian - Sand And Gravel	Sand And Gravel
4	On site	GFDUA-XSV	Glaciofluvial Deposits, Anglian - Sand And Gravel	Sand And Gravel





ID	Location	LEX Code	Description	Rock description
5	On site	ODT-DMTN	Oadby Member - Diamicton	Diamicton
6	On site	GFDUA-XSV	Glaciofluvial Deposits, Anglian - Sand And Gravel	Sand And Gravel
7	On site	GFDUA-XSV	Glaciofluvial Deposits, Anglian - Sand And Gravel	Sand And Gravel
8	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
9	On site	ODTT- DMTN	Oadby Member (trias-rich) - Diamicton	Diamicton
10	On site	HEAD- DMTN	Head - Diamicton	Diamicton
11	On site	HEAD- DMTN	Head - Diamicton	Diamicton
12	On site	HEAD- DMTN	Head - Diamicton	Diamicton
13	15m W	GLLD-XCZS	Glaciolacustrine Deposits - Clay, Silt And Sand	Clay, Silt And Sand
14	47m E	ODTT-DMTN	Oadby Member (trias-rich) - Diamicton	Diamicton
15	115m E	ODTT-DMTN	Oadby Member (trias-rich) - Diamicton	Diamicton
16	122m E	HEAD- DMTN	Head - Diamicton	Diamicton
17	130m E	ODTT-DMTN	Oadby Member (trias-rich) - Diamicton	Diamicton
18	144m SE	ODTT-DMTN	Oadby Member (trias-rich) - Diamicton	Diamicton
19	172m E	ODTT-DMTN	Oadby Member (trias-rich) - Diamicton	Diamicton
20	197m E	ODTT-DMTN	Oadby Member (trias-rich) - Diamicton	Diamicton
20	197m E 327m SW	ODTT-DMTN HEAD- DMTN	Oadby Member (trias-rich) - Diamicton  Head - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

### 14.4 Landslip (10k)

Records within 500m 0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.





# Geology 1:10,000 scale - Bedrock



Site OutlineSearch buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k) Please see table for more details.

### 14.5 Bedrock geology (10k)

### Records within 500m 99

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on page 108 >

ID	Location	LEX Code	Description	Rock age
1	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
2	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
3	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
4	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age





ID	Location	LEX Code	Description	Rock age
5	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
6	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
7	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
8	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
9	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
10	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
11	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
12	On site	DIS-SDST	Diseworth Sandstone - Sandstone	Ladinian Age
13	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
14	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
15	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
16	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
17	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
18	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
19	On site	DIS-SDST	Diseworth Sandstone - Sandstone	Ladinian Age
20	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
21	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
22	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
23	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
24	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
25	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
26	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
27	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
28	On site	DIS-SDST	Diseworth Sandstone - Sandstone	Ladinian Age
29	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
30	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
31	On site	DIS-SDST	Diseworth Sandstone - Sandstone	Ladinian Age
32	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age





ID	Location	LEX Code	Description	Rock age
33	On site	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
34	On site	DIS-SDST	Diseworth Sandstone - Sandstone	Ladinian Age
35	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
36	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
37	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
38	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
39	On site	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
54	34m S	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
55	36m W	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
56	47m E	DIS-SDST	Diseworth Sandstone - Sandstone	Ladinian Age
57	63m W	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
58	77m S	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
59	79m NE	GUN-SDST	Gunthorpe Member - Sandstone	Ladinian Age - Anisian Age
60	94m E	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
62	100m W	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
63	103m S	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
64	133m S	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
65	135m N	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
66	146m E	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
68	156m SE	DIS-SDST	Diseworth Sandstone - Sandstone	Ladinian Age
70	157m SE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
72	160m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
73	164m E	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
75	173m SE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
77	176m E	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
79	180m SE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
80	187m N	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
81	199m W	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age





ID	Location	LEX Code	Description	Rock age
82	200m W	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
83	201m W	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
84	206m NE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
85	211m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
86	211m NE	GUN-SDST	Gunthorpe Member - Sandstone	Ladinian Age - Anisian Age
87	211m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
89	212m NE	GUN-SDST	Gunthorpe Member - Sandstone	Ladinian Age - Anisian Age
90	213m NE	TPSF-MDSS	Tarporley Siltstone Formation - Mudstone, Siltstone And Sandstone	Anisian Age - Olenekian Age
91	213m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
92	215m SE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
93	224m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
94	233m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
95	233m NE	GUN-SDST	Gunthorpe Member - Sandstone	Ladinian Age - Anisian Age
96	233m SE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
98	252m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
99	256m W	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
100	273m W	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
101	283m NE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
102	283m NE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
103	298m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
104	308m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
105	321m S	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
107	323m NE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
108	325m NE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
109	335m SW	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
110	335m SW	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
113	337m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
115	343m E	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age



Date: 13 December 2024



ID	Location	LEX Code	Description	Rock age
118	371m E	DIS-SDST	Diseworth Sandstone - Sandstone	Ladinian Age
119	394m NW	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
120	413m NE	TPSF-MDSS	Tarporley Siltstone Formation - Mudstone, Siltstone And Sandstone	Anisian Age - Olenekian Age
121	440m NE	TPSF-MDSS	Tarporley Siltstone Formation - Mudstone, Siltstone And Sandstone	Anisian Age - Olenekian Age
122	453m NE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
123	464m SW	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
124	469m E	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
125	478m NE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
126	480m NE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age
127	482m NE	GUN-SDST	Gunthorpe Member - Sandstone	Ladinian Age - Anisian Age
128	499m NE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age

This data is sourced from the British Geological Survey.

# 14.6 Bedrock faults and other linear features (10k)

Records within 500m 29

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on page 108 >

ID	Location	Category	Description
40	On site	FAULT	Normal fault, inferred
41	On site	FAULT	Normal fault, inferred
42	On site	FAULT	Normal fault, inferred
43	On site	FAULT	Normal fault, inferred
44	On site	FAULT	Normal fault, inferred
45	On site	FAULT	Normal fault, inferred
46	On site	FAULT	Normal fault, inferred
47	On site	FAULT	Normal fault, inferred



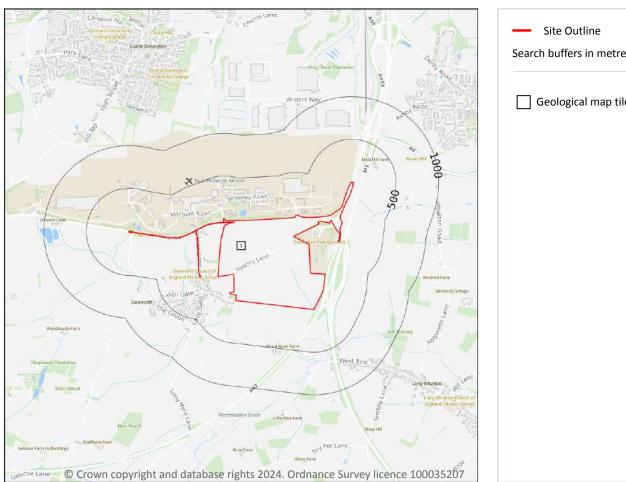


ID	Location	Category	Description
48	On site	FAULT	Normal fault, inferred
49	On site	FAULT	Normal fault, inferred
50	On site	FAULT	Normal fault, inferred
51	On site	FAULT	Normal fault, inferred
52	On site	FAULT	Normal fault, inferred
53	On site	FAULT	Normal fault, inferred
61	94m E	FAULT	Normal fault, inferred
67	146m E	FAULT	Normal fault, inferred
69	156m SE	FAULT	Normal fault, inferred
71	157m SE	FAULT	Normal fault, inferred
74	164m E	FAULT	Normal fault, inferred
76	173m SE	FAULT	Normal fault, inferred
78	176m E	FAULT	Normal fault, inferred
88	211m NE	FAULT	Normal fault, inferred
97	236m NE	FAULT	Normal fault, inferred
106	321m S	FAULT	Normal fault, inferred
111	335m SW	FAULT	Normal fault, inferred
112	335m SW	FAULT	Normal fault, inferred
114	339m S	FAULT	Normal fault, inferred
116	343m E	FAULT	Normal fault, inferred
117	351m E	FAULT	Normal fault, inferred





# 15 Geology 1:50,000 scale - Availability



# Search buffers in metres (m) Geological map tile

### 15.1 50k Availability

### Records within 500m 1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

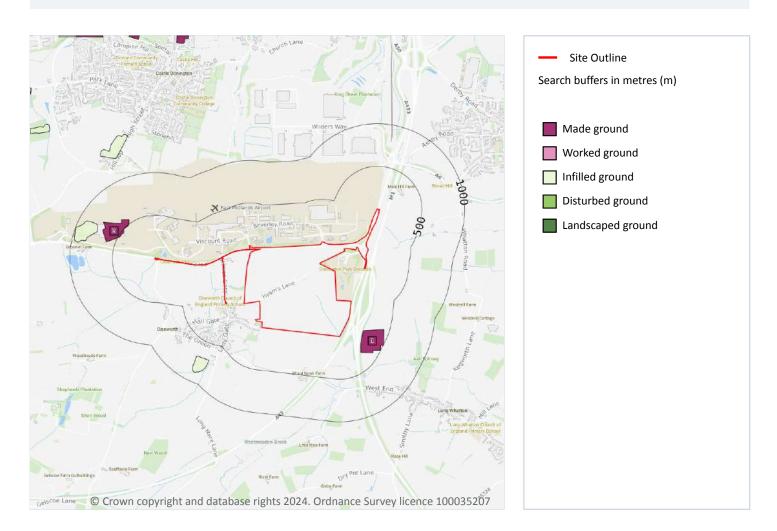
Features are displayed on the Geology 1:50,000 scale - Availability map on page 114 >

1	On site	Full	Full	Full	Full	EW141_loughborough_v4
IC	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.





# Geology 1:50,000 scale - Artificial and made ground



### 15.2 Artificial and made ground (50k)

Records within 500m 2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on page 115 >

ID	Location	LEX Code	Description	Rock description
1	214m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	473m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT





### 15.3 Artificial ground permeability (50k)

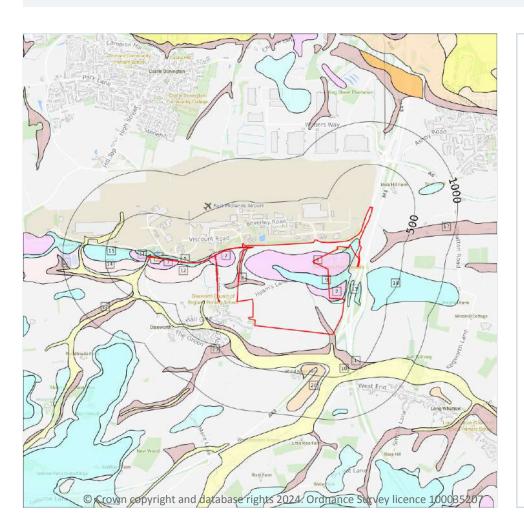
Records within 50m 0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).





# Geology 1:50,000 scale - Superficial



Site Outline
Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k) Please see table for more details.

### 15.4 Superficial geology (50k)

### Records within 500m 22

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on page 117 >

ID	Location	LEX Code	Description	Rock description
1	On site	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
2	On site	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
3	On site	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL





ID	Location	LEX Code	Description	Rock description
4	On site	GLLMP- XCZS	GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE	CLAY, SILT AND SAND
5	On site	ODT-DMTN	OADBY MEMBER	DIAMICTON
6	On site	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
7	On site	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
8	On site	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
9	On site	ODT-DMTN	OADBY MEMBER	DIAMICTON
10	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
11	8m W	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
12	14m W	GLLMP-XCZS	GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE	CLAY, SILT AND SAND
13	41m E	ODT-DMTN	OADBY MEMBER	DIAMICTON
14	60m W	GLLMP-XCZS	GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE	CLAY, SILT AND SAND
15	108m W	ODT-DMTN	OADBY MEMBER	DIAMICTON
16	118m E	ODT-DMTN	OADBY MEMBER	DIAMICTON
17	125m E	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
18	129m E	ODT-DMTN	OADBY MEMBER	DIAMICTON
19	335m SW	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
20	371m S	WASG-XSV	WANLIP MEMBER	SAND AND GRAVEL
21	403m W	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
22	433m W	HEAD- XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

## 15.5 Superficial permeability (50k)

Records within 50m 18

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).





Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Very Low
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Mixed	Moderate	Low
On site	Mixed	Moderate	Low
On site	Mixed	Moderate	Low
On site	Mixed	Moderate	Low
On site	Mixed	High	Very Low
On site	Mixed	High	Very Low
On site	Mixed	High	Very Low
On site	Mixed	Moderate	Very Low
8m W	Intergranular	Very High	High
14m W	Mixed	Moderate	Very Low
27m W	Mixed	Moderate	Very Low
41m E	Mixed	Moderate	Low

This data is sourced from the British Geological Survey.

### 15.6 Landslip (50k)

Records within 500m 0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.





### 15.7 Landslip permeability (50k)

Records within 50m 0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).





# Geology 1:50,000 scale - Bedrock



Site Outline
Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k) Please see table for more details.

### 15.8 Bedrock geology (50k)

Records within 500m 79

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 121 >

ID	Location	LEX Code	Description	Rock age
1	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
2	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
3	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
4	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN





ID	Location	LEX Code	Description	Rock age
5	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
6	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
7	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
8	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
9	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
10	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
11	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
12	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
13	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
14	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
15	On site	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
16	On site	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
17	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
18	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
19	On site	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
20	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
21	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
22	On site	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
23	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
24	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
25	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
26	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
27	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
28	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
29	On site	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
30	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
31	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
32	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN





ID	Location	LEX Code	Description	Rock age
40	32m S	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
41	40m W	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
42	77m S	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
43	79m NE	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
44	94m E	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
46	126m N	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
47	134m SE	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
48	140m W	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
49	141m E	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
51	148m SE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
52	159m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
53	176m SE	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
54	180m E	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
56	181m W	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
57	187m SE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
58	187m N	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
59	213m NE	TPSF-SIMS	TARPORLEY SILTSTONE FORMATION - SILTSTONE, MUDSTONE AND SANDSTONE	OLENEKIAN
60	213m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
61	213m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
63	214m SE	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
64	215m NE	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
65	215m NE	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
66	216m W	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
67	216m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
68	224m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
69	232m NE	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
70	237m SE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
72	254m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN





ID	Location	LEX Code	Description	Rock age
73	284m NE	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
74	315m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
75	328m S	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
77	337m NE	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
78	338m SW	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
81	350m E	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
82	360m NE	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
83	362m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
84	399m NW	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
85	407m NW	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
87	431m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
88	446m NE	TPSF-SIMS	TARPORLEY SILTSTONE FORMATION - SILTSTONE, MUDSTONE AND SANDSTONE	OLENEKIAN
89	448m NE	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
90	453m W	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
91	466m SW	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
92	468m NE	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
93	486m NE	DIS-SDST	DISEWORTH SANDSTONE - SANDSTONE	LADINIAN
94	497m S	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
95	500m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN

This data is sourced from the British Geological Survey.

# 15.9 Bedrock permeability (50k)

Records within 50m 21

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low





Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	Low	Low
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
On site	Fracture	High	Moderate
32m S	Fracture	Moderate	Low
40m W	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

### 15.10 Bedrock faults and other linear features (50k)

Records within 500m 16

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 121 >

ID	Location	Category	Description
33	On site	FAULT	Fault, inferred





ID	Location	Category	Description
34	On site	FAULT	Fault, inferred
35	On site	FAULT	Fault, inferred
36	On site	FAULT	Fault, inferred
37	On site	FAULT	Fault, inferred
38	On site	FAULT	Fault, inferred
39	On site	FAULT	Fault, inferred
45	94m E	FAULT	Fault, inferred
50	141m E	FAULT	Fault, inferred
55	180m E	FAULT	Fault, inferred
62	213m NE	FAULT	Fault, inferred
71	240m NE	FAULT	Fault, inferred
76	328m S	FAULT	Fault, inferred
79	338m SW	FAULT	Fault, inferred
80	345m S	FAULT	Fault, inferred
86	407m NW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

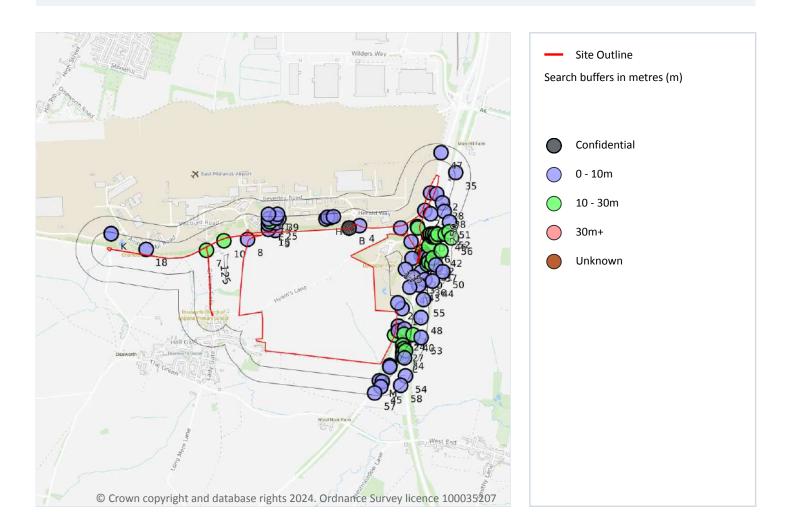


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## **16 Boreholes**



### **16.1 BGS Boreholes**

Records within 250m 120

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on page 127 >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	446810 325440	A42 CASTLE DONINGTON BH276	5.0	N	218232 🗷
2	On site	447000 325580	A42 CASTLE DONINGTON BH278	5.0	N	218243 🗷
3	On site	447044 325719	A42 CASTLE DONNINGTON TP 825	2.0	N	218294 🗷





ID	Location	Grid reference	Name	Length	Confidential	Web link
Α	On site	446940 325450	A42 CASTLE DONINGTON BH277	5.0	N	218233 7
Α	On site	446944 325439	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 RC1075	17.2	N	18913770 7
4	2m NE	446480 325458	A564 STOKE-DERBY LINK BH13	5.0	N	218300 7
В	3m NE	446400 325440	CARGO APRON EXTENSION PHASE II &PASSENGER TERMINAL EAST MIDLAND AIRPORT B	-	Υ	N/A
В	3m NE	446400 325440	CARGO APRON EXTENSION PHASE II &PASSENGER TERMINAL EAST MIDLAND AIRPORT A	-	Υ	N/A
5	3m SE	446759 324588	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 RC1064	15.0	N	18913744 7
6	3m NE	446890 325330	A42 CASTLE DONINGTON BH275	5.0	N	218221 7
7	4m W	445266 325262	A564 STOKE-DERBY LINK BH9	15.0	N	<u>218296</u> ⊅
С	9m E	446970 325220	A42 CASTLE DONINGTON BH273	20.0	N	218230 7
8	10m NW	445595 325350	A564 STOKE-DERBY LINK BH11	1.0	N	218298 🗷
9	14m NW	445810 325420	EAST MIDLANDS AIRPORT CE-G	5.0	N	<u>13335414</u>
10	15m NW	445407 325338	A564 STOKE-DERBY LINK BH10	13.0	N	218297 7
11	18m E	446980 325250	A42 CASTLE DONINGTON BH274	20.0	N	218231 7
12	20m NE	447094 325709	A42 CASTLE DONNINGTON TP 826	2.0	N	218295 7
13	21m SE	446790 324660	A42 CASTLE DONINGTON NORTH TP430	3.0	N	219691 7
14	24m SE	446788 324622	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 TP1065	4.1	N	18913747 7
15	25m NW	445760 325430	EAST MIDLANDS AIRPORT CE-E	6.0	N	<u>13335412</u>
С	31m E	446990 325210	A42 CASTLE DONINGTON BH271	20.0	N	218228 7
С	37m E	447000 325230	A42 CASTLE DONINGTON BH272	25.0	N	218229 7
С	40m E	447000 325210	A42 CASTLE DONINGTON BH270	10.0	N	218227 7
С	44m E	447000 325190	A42 CASTLE DONINGTON BH269	20.0	N	218226 7
16	44m NE	447046 325552	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 TP1076	1.9	N	<u>18913776</u> <i> </i>
17	45m E	446900 325200	A42 CASTLE DONINGTON BH237	5.0	N	218220 7





ID	Location	Grid reference	Name	Length	Confidential	Web link
18	45m W	444787 325272	A564 STOKE-DERBY LINK 8	6.0	N	218821 7
C	46m E	447006 325214	A42 CASTLE DONINGTON 744	7.0	N	218207 7
19	46m E	446820 324800	A42 CASTLE DONINGTON NORTH BH235S	8.0	N	219692 7
D	51m NE	447030 325380	A42 CASTLE DONINGTON BH281	20.0	N	218234 7
D	61m NE	447040 325380	A42 CASTLE DONINGTON BH283	20.0	N	218236 🗷
D	61m NE	447040 325390	A42 CASTLE DONINGTON BH282	20.0	N	218235 🗷
E	65m NW	445760 325470	EAST MIDLANDS AIRPORT CE-D	6.0	N	13335411 7
F	67m E	447020 325170	A42 CASTLE DONINGTON BH267	20.0	N	218224 7
G	69m SE	446720 324350	A42 CASTLE DONINGTON NORTH BH232	7.0	N	219664 7
20	69m E	446970 325090	M1 EXTENSIONS BH305 LONG WHATTON	9.0	N	218143 7
21	69m E	446786 324844	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 CP1066	8.57	N	18913740 7
F	71m E	447020 325150	A42 CASTLE DONINGTON BH265	17.0	N	218222 7
22	72m E	447030 325200	A42 CASTLE DONINGTON BH268	10.0	N	218225 🗷
23	73m SE	446840 324640	A42 CASTLE DONINGTON NORTH BH720	6.0	N	219600 7
24	73m SE	446833 324597	A42 CASTLE DONINGTON NORTH BH719	15.0	N	219599 7
25	74m NW	445820 325480	EAST MIDLANDS AIRPORT TP CE-2	2.6	N	13335416 7
26	75m E	447031 325296	A42 CASTLE DONINGTON BH728R	20.0	N	218197 🗷
G	75m SE	446721 324338	A42 CASTLE DONINGTON NORTH 741	7.0	N	219605 7
F	77m E	447030 325170	A42 CASTLE DONINGTON BH266	15.0	N	218223 7
D	80m NE	447060 325370	A42 CASTLE DONINGTON BH285	7.0	N	218238 7
D	81m NE	447060 325390	A42 CASTLE DONINGTON BH284	20.0	N	218237 🗷
E	85m NW	445770 325490	EAST MIDLANDS AIRPORT CE-C	15.0	N	13335410 7
Н	87m N	446214 325513	PEGASUS BUSINESS PARK PHASE 2 EMA 1	3.45	N	<u>15987788</u> <i></i> ✓
27	88m SE	446822 324511	A42 CASTLE DONINGTON NORTH BH718	15.0	N	219598 7
28	89m NE	447140 325640	M1 EXTENSIONS BH306 KEGWORTH	9.14	N	218144 7





10	Location	Cuid	None	l au ett	Confidential	Mala III
ID	Location	Grid reference	Name	Length	Confidential	Web link
Н	93m N	446252 325521	PEGASUS BUSINESS PARK PHASE 2 EMA 2	3.45	N	<u>15987792</u> <i></i> ✓
Н	98m N	446228 325525	PEGASUS BUSINESS PARK PHASE 2 EMA TP2	2.8	N	<u>15987795</u> <i> </i>
D	100m NE	447080 325370	A42 CASTLE DONINGTON BH287	20.0	N	218240 🗷
29	100m N	446276 325530	PEGASUS BUSINESS PARK PHASE 2 EMA TP1	2.7	N	<u>15987793</u> <i> </i>
30	100m E	446847 325114	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 TP1069	4.0	N	18913774 7
31	101m E	447051 325155	A42 CASTLE DONINGTON BH726	15.0	N	218195 🗷
D	101m NE	447080 325390	A42 CASTLE DONINGTON BH286	20.0	N	218239 7
32	105m E	447064 325201	A42 CASTLE DONINGTON BH727	15.0	N	218196 7
Е	105m NW	445760 325510	EAST MIDLANDS AIRPORT CE-B	6.0	N	<u>13335409</u>
I	108m NW	445840 325514	A564 STOKE-DERBY LINK BH12	6.0	N	218299 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH243	15.0	N	219685 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH249	20.0	N	219668 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH255	25.0	N	219674 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH261	20.0	N	219680 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH251	17.0	N	219670 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH263	20.0	N	219682 7
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH242	15.0	N	219684 7
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH245	17.0	N	219687 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH259	20.0	N	219678 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH253	15.0	N	219672 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH247	15.0	N	219689 7
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH258	10.0	N	219677 7
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH244	17.0	N	219686 7
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH248	15.0	N	219667 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH262	10.0	N	219681 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH257	20.0	N	<u>219676</u> ⊅





ID	Location	Grid reference	Name	Length	Confidential	Web link
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH260	20.0	N	219679 7
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH246	20.0	N	219688 7
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH252	17.0	N	219671 7
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH250	15.0	N	219669 7
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH254	20.0	N	219673 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH256	20.0	N	219675 🗷
J	109m SE	446830 324480	A42 CASTLE DONINGTON NORTH BH264	20.0	N	219683 🗷
D	110m NE	447090 325370	A42 CASTLE DONINGTON BH287	15.0	N	218241 7
33	112m E	446910 325050	A42 CASTLE DONINGTON TP439	3.0	N	218217 7
I	114m NW	445820 325520	EAST MIDLANDS AIRPORT TP CE-1	2.5	N	<u>13335415</u>
K	115m W	444510 325396	A564 STOKE-DERBY LINK B7	10.0	N	218820 7
K	115m W	444510 325396	A564 STOKE-DERBY LINK 6	1.0	N	218819 7
34	117m SE	446824 324449	A42 CASTLE DONINGTON NORTH BH722	20.0	N	219602 7
D	121m NE	447100 325390	A42 CASTLE DONINGTON BH289	25.0	N	218242 7
L	129m SE	446824 324422	A42 CASTLE DONINGTON NORTH BH721	20.0	N	219601 7
J	130m SE	446846 324465	A42 CASTLE DONINGTON NORTH BH723	20.0	N	219603 🗷
M	130m SE	446640 324230	A42 CASTLE DONINGTON NORTH BH231	8.0	N	219662 7
35	133m NE	447243 325878	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 CP1078	3.02	N	<u>18913749</u> <i> </i>
36	136m E	447000 325030	A42 CASTLE DONINGTON BH241	8.0	N	218218 7
37	136m E	447086 325147	A42 CASTLE DONINGTON 746	6.0	N	218208 7
38	137m NE	447155 325573	A42 CASTLE DONINGTON 747	7.0	N	218209 7
M	141m SE	446660 324220	A42 CASTLE DONINGTON NORTH TP462	2.0	N	219663 7
39	144m NW	445830 325550	EAST MIDLANDS AIRPORT CE-F	5.0	N	<u>13335413</u>
40	145m SE	446906 324593	A42 CASTLE DONINGTON NORTH BH725	20.15	N	219604 7
41	145m NW	445760 325550	EAST MIDLANDS AIRPORT CE-A	6.0	N	<u>13335407</u>
L	149m SE	446840 324410	M1 EXTENSION BH302 LONG WHATTON	5.18	N	219530 7





ID	Location	Grid reference	Name	Length	Confidential	Web link
42	165m E	447127 325261	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 RC1074	15.0	N	<u>18913769</u> <i> </i>
43	166m E	446950 324990	M1 EXTENSION BH304 LONG WHATTON	8.53	N	219532 7
44	176m E	447060 325020	A42 CASTLE DONINGTON TP443	3.0	N	218219 🗷
45	180m SE	446650 324180	A42 CASTLE DONINGTON NORTH BH230S	6.0	N	219661 🗷
46	182m NE	447161 325392	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 RC1283	15.0	N	<u>18913773</u>
47	185m NE	447129 326038	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 TP1080	1.2	N	<u>18913778</u> <i> </i>
48	192m E	446970 324730	A42 CASTLE DONINGTON NORTH BH239	7.0	N	219693 7
49	197m E	446880 324970	A42 CASTLE DONINGTON NORTH BH236	7.0	N	219695 7
50	204m E	447143 325094	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 TP1070	3.5	N	<u>18913775</u> <i> </i>
51	205m NE	447194 325490	M1 WIDENING JUNCTION 21-30 PRELIMINARY GI CONTRACT 2 TP1077	2.4	N	<u>18913777</u>
52	212m NE	447190 325410	A42 CASTLE DONINGTON BH290	16.0	N	218244 7
53	213m SE	446970 324570	A42 CASTLE DONINGTON NORTH BH238	5.0	N	219690 7
54	220m SE	446847 324265	A42 CASTLE DONINGTON NORTH 742	7.0	N	219607 🗷
55	229m E	446990 324870	A42 CASTLE DONINGTON NORTH TP442	3.0	N	219696 🗷
56	230m E	447210 325360	A42 CASTLE DONINGTON BH291S	16.0	N	218245 🗷
57	234m SE	446600 324130	A42 CASTLE DONINGTON NORTH TP461	3.0	N	219660 7
58	235m SE	446810 324190	A42 CASTLE DONINGTON NORTH BH233	4.0	N	219665 7





# 17 Natural ground subsidence - Shrink swell clays



### 17.1 Shrink swell clays

Records within 50m 7

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on page 133 >

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
On site	Low	Ground conditions predominantly medium plasticity.





Location	Hazard rating	Details
24m W	Negligible	Ground conditions predominantly non-plastic.
32m S	Negligible	Ground conditions predominantly non-plastic.
40m W	Negligible	Ground conditions predominantly non-plastic.
41m E	Low	Ground conditions predominantly medium plasticity.

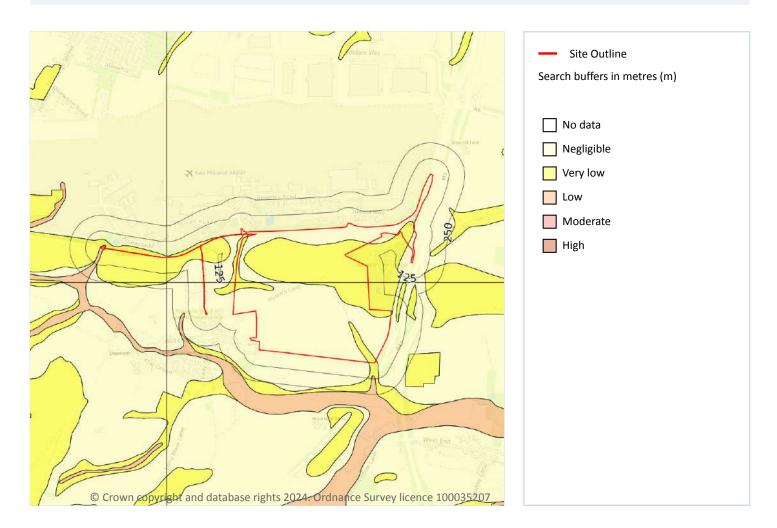
This data is sourced from the British Geological Survey.



Date: 13 December 2024



# Natural ground subsidence - Running sands



### **17.2** Running sands

Records within 50m 5

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on page 135 >

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.



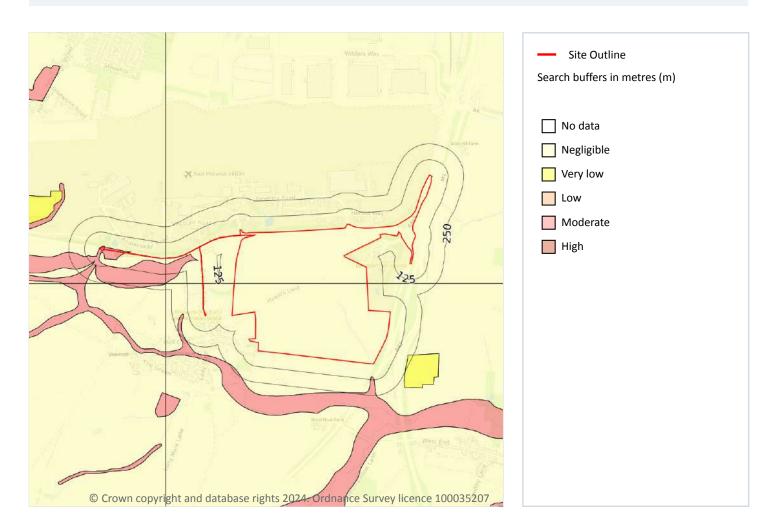


Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
10m W	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
41m E	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions





# Natural ground subsidence - Compressible deposits



### 17.3 Compressible deposits

Records within 50m 3

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on page 137 >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.



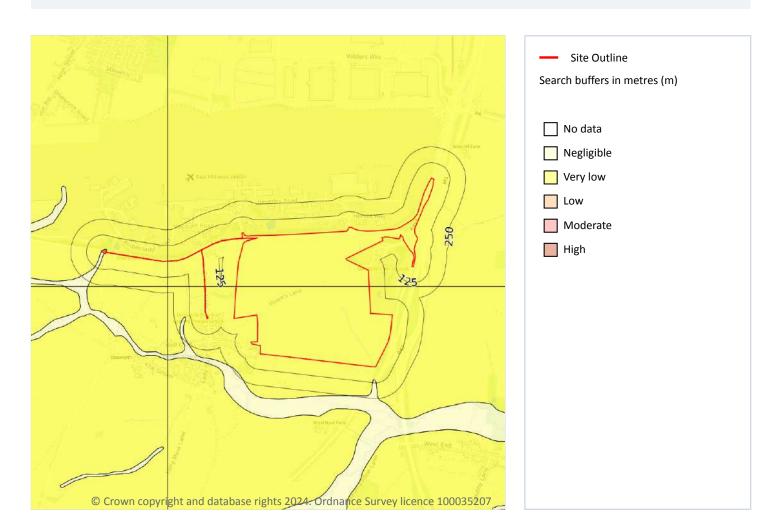


Location	Hazard rating	Details
14m W	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.





# Natural ground subsidence - Collapsible deposits



### 17.4 Collapsible deposits

Records within 50m 2

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

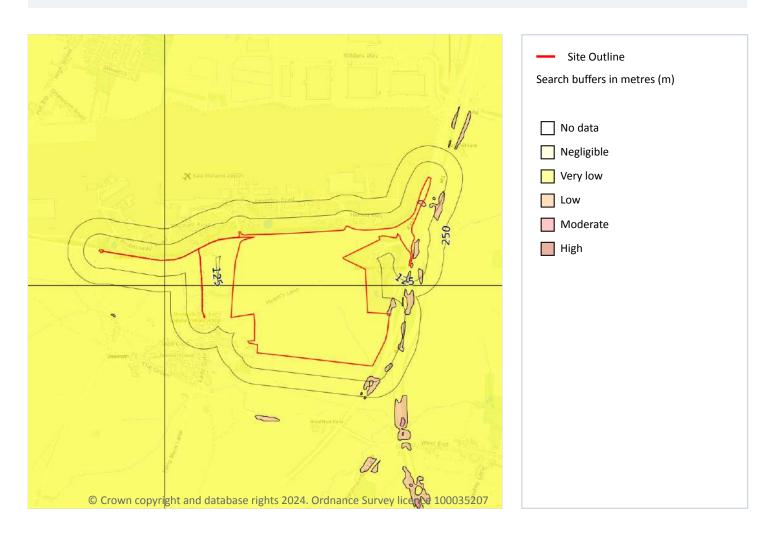
Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 139 >

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.





# **Natural ground subsidence - Landslides**



### 17.5 Landslides

Records within 50m 5

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on page 140 >

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.



Date: 13 December 2024

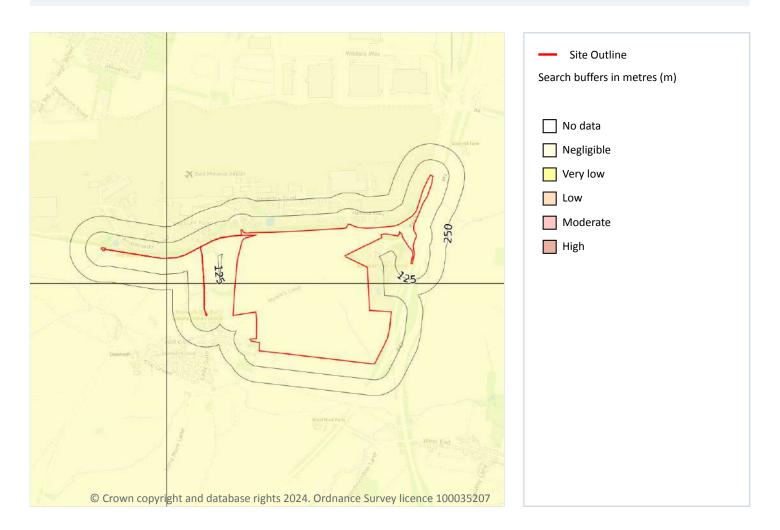


Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
3m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
9m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
42m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.





# Natural ground subsidence - Ground dissolution of soluble rocks



## 17.6 Ground dissolution of soluble rocks

Records within 50m 1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on <a href="mailto:page">page</a> >

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



Date: 13 December 2024

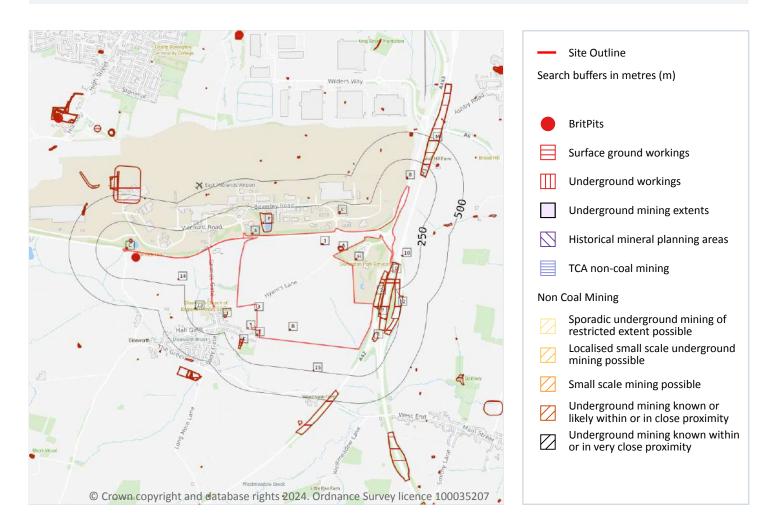


This data is sourced from the British Geological Survey.





# 18 Mining and ground workings



#### 18.1 BritPits

#### Records within 500m 1

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on page 144 >





ID	Location	Details	Description
G	50m W	Name: Charnock Hill Gravel Pit Address: Diseworth, SHEPSHED, Leicestershire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

# 18.2 Surface ground workings

Records within 250m 49

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on page 144 >

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Pond	1922	1:10560
Α	On site	Unspecified Pit	1922	1:10560
Α	On site	Unspecified Pit	1922	1:10560
Α	On site	Unspecified Pit	1955	1:10560
В	On site	Pond	1903	1:10560
В	On site	Pond	1919	1:10560
С	3m W	Pond	1922	1:10560
2	4m E	Cuttings	1993	1:10000
3	5m SW	Pond	1903	1:10560
С	8m W	Pond	1901	1:10560
D	11m E	Cuttings	1971	1:10000
D	11m E	Cuttings	1982	1:10000
D	11m E	Cuttings	1992	1:10000
4	15m NW	Pond	1922	1:10560
Е	17m SW	Pond	1903	1:10560
Е	17m SW	Pond	1919	1:10560





ID	Location	Land Use	Year of mapping	Mapping scale
5	27m SW	Pond	1903	1:10560
F	31m NW	Unspecified Ground Workings	1992	1:10000
G	37m W	Unspecified Ground Workings	1955	1:10560
G	37m W	Unspecified Ground Workings	1901	1:10560
G	37m W	Old Gravel Pit	1922	1:10560
G	37m W	Old Gravel Pit	1922	1:10560
G	40m W	Old Gravel Pit	1883	1:10560
G	41m W	Old Gravel Pit	1883	1:10560
Н	57m NE	Pond	1901	1:10560
I	58m SE	Cuttings	1993	1:10000
Н	58m NE	Pond	1922	1:10560
6	65m SE	Cuttings	1993	1:10000
7	65m E	Pond	1919	1:10560
8	69m NE	Pond	1922	1:10560
9	71m W	Pond	1988	1:10000
I	77m SE	Cuttings	1975	1:10000
10	78m E	Pond	1922	1:10560
11	92m E	Cuttings	1992	1:10000
F	114m NW	Pond	1922	1:10560
J	118m W	Pond	1903	1:10560
J	118m W	Pond	1919	1:10560
K	127m SW	Brick Yard	1883	1:10560
K	128m SW	Brick Yard	1903	1:10560
K	129m SW	Brick Yard	1883	1:10560
L	137m NE	Pond	1922	1:10560
12	141m SE	Cuttings	1993	1:10000
L	142m NE	Pond	1901	1:10560
M	155m NE	Cuttings	1971	1:10000





ID	Location	Land Use	Year of mapping	Mapping scale
M	155m NE	Cuttings	1982	1:10000
M	155m NE	Cuttings	1992	1:10000
13	158m W	Pond	1903	1:10560
14	192m W	Pond	1922	1:10560
15	241m S	Pond	1903	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

# 18.3 Underground workings

Records within 1000m 0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This is data is sourced from Ordnance Survey/Groundsure.

## **18.4 Underground mining extents**

Records within 500m 0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

# **18.5 Historical Mineral Planning Areas**

Records within 500m

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.





# 18.6 Non-coal mining

Records within 1000m 0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

## 18.7 JPB mining areas

Records on site 0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

# 18.8 The Coal Authority non-coal mining

Records within 500m 0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

# 18.9 Researched mining

Records within 500m 0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.





## 18.10 Mining record office plans

Records within 500m 0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

## 18.11 BGS mine plans

Records within 500m 0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

### 18.12 Coal mining

Records on site 0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

#### 18.13 Brine areas

Records on site 0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

#### 18.14 Gypsum areas

Records on site 0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



Date: 13 December 2024



# 18.15 Tin mining

Records on site 0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

# 18.16 Clay mining

Records on site 0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).





# 19 Ground cavities and sinkholes

#### 19.1 Natural cavities

Records within 500m 0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

## 19.2 Mining cavities

Records within 1000m

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

# 19.3 Reported recent incidents

Records within 500m

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

#### 19.4 Historical incidents

Records within 500m 0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.





This data is sourced from Groundsure.

#### 19.5 National karst database

Records within 500m 0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

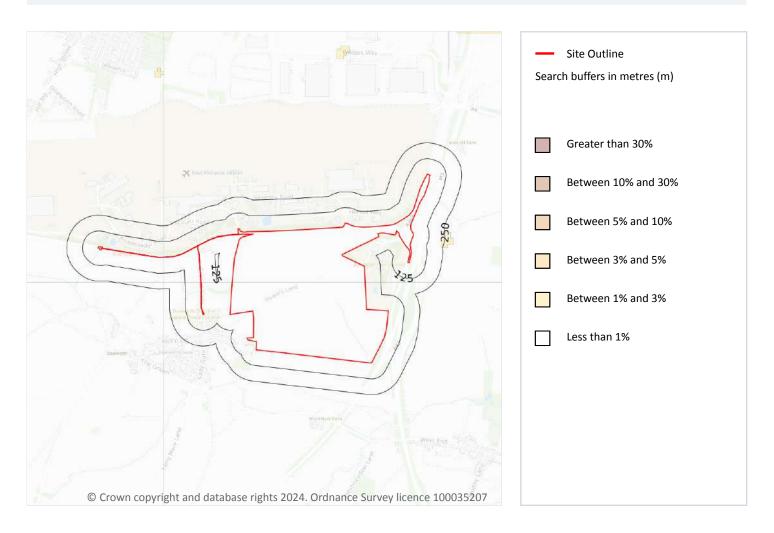
The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.





# 20 Radon



#### 20.1 Radon

#### Records on site 1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on page 153 >

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None





## East Midland Gateway, A453 (LCC Land)

Ref: GS-DDN-E8C-BSV-RJY Your ref: 220500 - 10260 Grid ref: 446173 324940

This data is sourced from the British Geological Survey and UK Health Security Agency.



01273 257 755



# 21 Soil chemistry

## 21.1 BGS Estimated Background Soil Chemistry

Records within 50m 179

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg





Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg





Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg





Location	A wa c :: -	Diopersuit	l a a -l	Diegozasiki	Cooling	Claugara	Nielsel
Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg





Location	Arochia	Diogeoccible	Logd	Diogramailala	Cadina	Charami	Niekal
Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg





Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg





Location	Arsenic	Bioaccessible	Lead	Bioaccessible	Cadmium	Chromium	Nickel
Location	Augeme	Arsenic	Lead	Lead	Caaiiiaiii	Cironnam	TVICKCI
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg





Lastina	A	Diagram	Land	Diagram (III)	Co dura	Claura us '	Nicoland
Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg





Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
3m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
5m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
6m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
6m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
7m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
8m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
9m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
9m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
10m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
10m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
14m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
15m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
17m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
20m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg





Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
20m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
23m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
25m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
26m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
26m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
27m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
29m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
30m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
32m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
33m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
35m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
36m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
37m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
37m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
37m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
40m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
41m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
43m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg





Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
43m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
44m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
46m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
47m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
48m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

# 21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

# 21.3 BGS Measured Urban Soil Chemistry

Records within 50m 0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

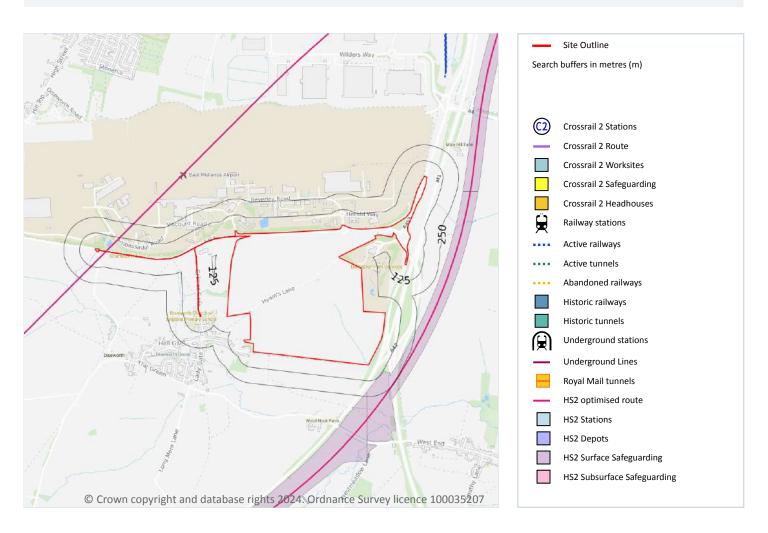
This data is sourced from the British Geological Survey.



Date: 13 December 2024



# 22 Railway infrastructure and projects



# 22.1 Underground railways (London)

Records within 250m 0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

# 22.2 Underground railways (Non-London)

Records within 250m

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.





This data is sourced from publicly available information by Groundsure.

## 22.3 Railway tunnels

Records within 250m

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

## 22.4 Historical railway and tunnel features

Records within 250m 0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

### 22.5 Royal Mail tunnels

Records within 250m 0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

## **22.6** Historical railways

Records within 250m 0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

### 22.7 Railways

Records within 250m 0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.



Date: 13 December 2024



#### 22.8 Crossrail 2

Records within 500m 0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

#### 22.9 HS2

Records within 500m

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

Features are displayed on the Railway infrastructure and projects map on page 166 >

Location	Track Type	Speed (mph)	Speed (km/h)	Status
On site	Tunnel	249mph	400kph	Section is scheduled for cancellation
9m W	Surface Running Track	249mph	400kph	Section is scheduled for cancellation
246m SE	Bridge/Viaduct	171mph	275kph	Section is scheduled for cancellation
254m W	Surface Running Track	249mph	400kph	Section is scheduled for cancellation
257m SE	Surface Running Track	171mph	275kph	Section is scheduled for cancellation
277m SE	Surface Running Track	171mph	275kph	Section is scheduled for cancellation
293m SE	Surface Running Track	171mph	275kph	Section is scheduled for cancellation
304m W	Surface Running Track	249mph	400kph	Section is scheduled for cancellation
341m E	Surface Running Track	171mph	275kph	Section is scheduled for cancellation
355m NE	Surface Running Track	171mph	275kph	Section is scheduled for cancellation
356m NE	Surface Running Track	171mph	275kph	Section is scheduled for cancellation
357m NE	Surface Running Track	171mph	275kph	Section is scheduled for cancellation
358m E	Surface Running Track	171mph	275kph	Section is scheduled for cancellation

This data is sourced from HS2 ltd.





# **Data providers**

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <a href="https://www.groundsure.com/sources-reference">https://www.groundsure.com/sources-reference</a>  $\nearrow$ .

# **Terms and conditions**

Groundsure's Terms and Conditions can be accessed at this link: <a href="www.groundsure.com/terms-and-conditions-april-2023/">www.groundsure.com/terms-and-conditions-april-2023/<a> ↗.

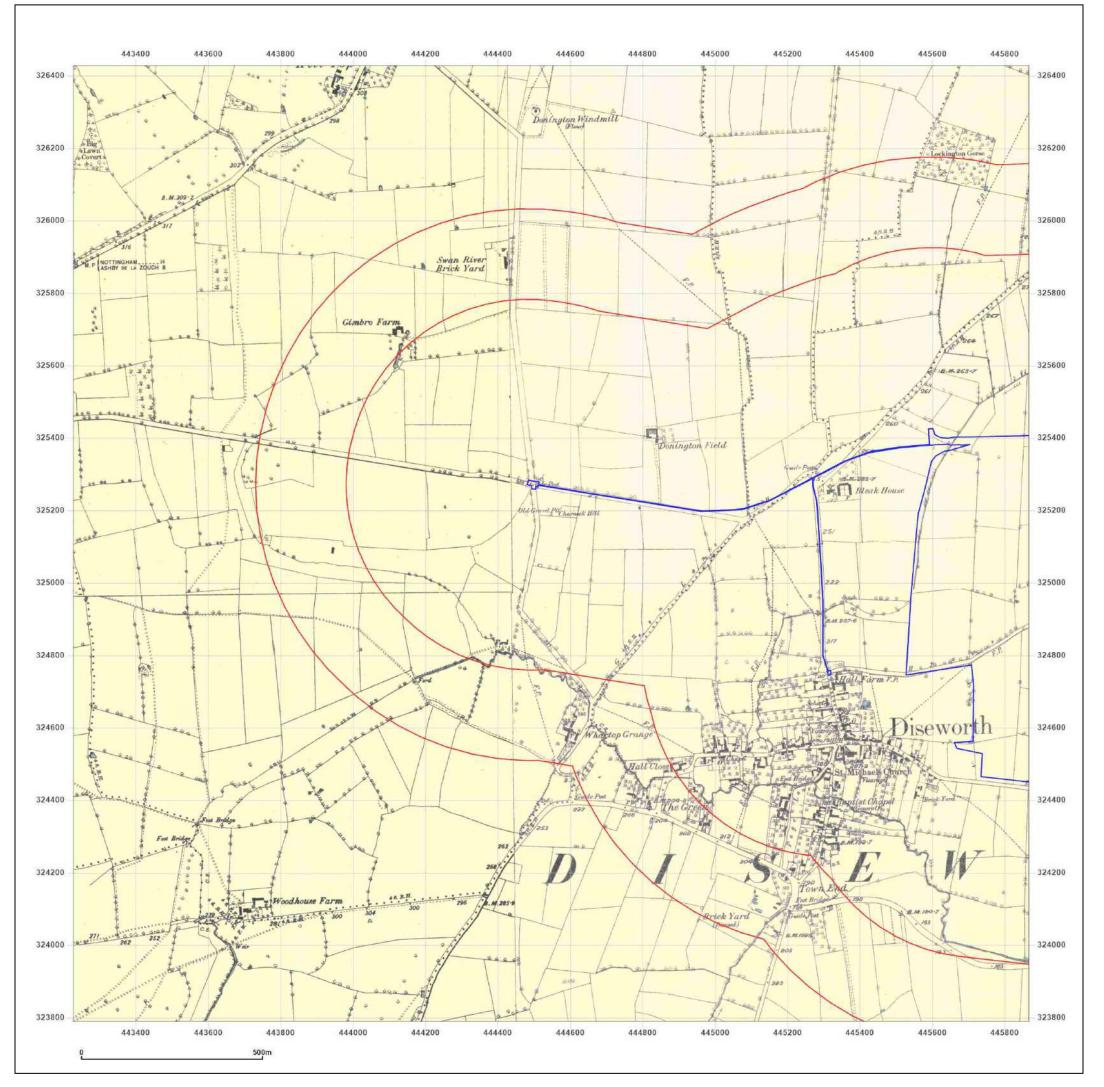


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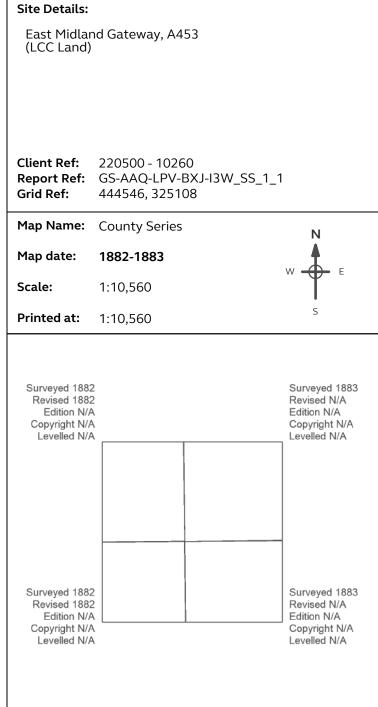
East Midlands Gateway 2**Error! Reference source not found.**Preliminary Sources Study Report Affecting Leicestershire County Council March 2025
EMG2-BWB-HGT-XX-RP-CE-003



Appendix 2: Historical Mapping





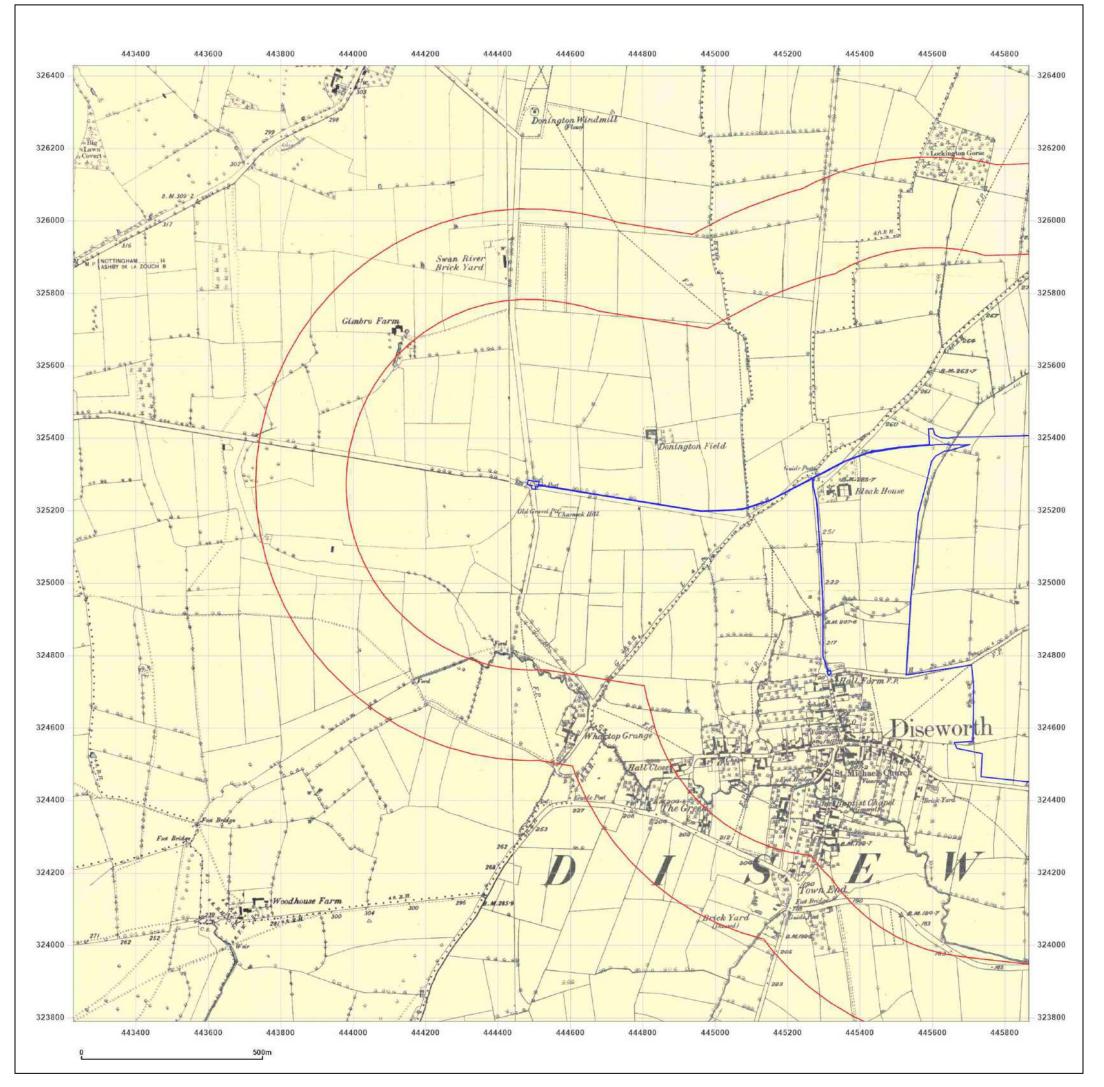




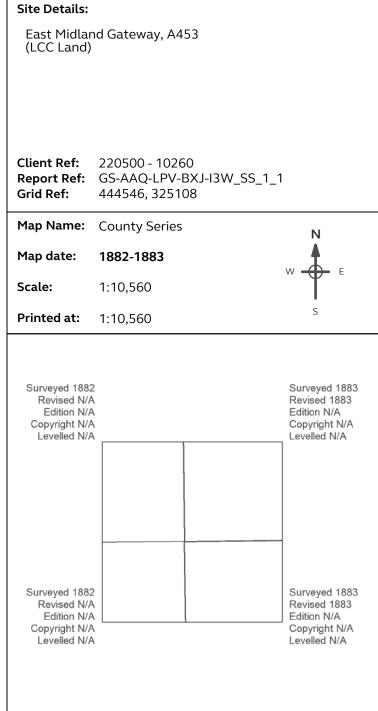
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Production date: 13 December 2024

Map legend available at:





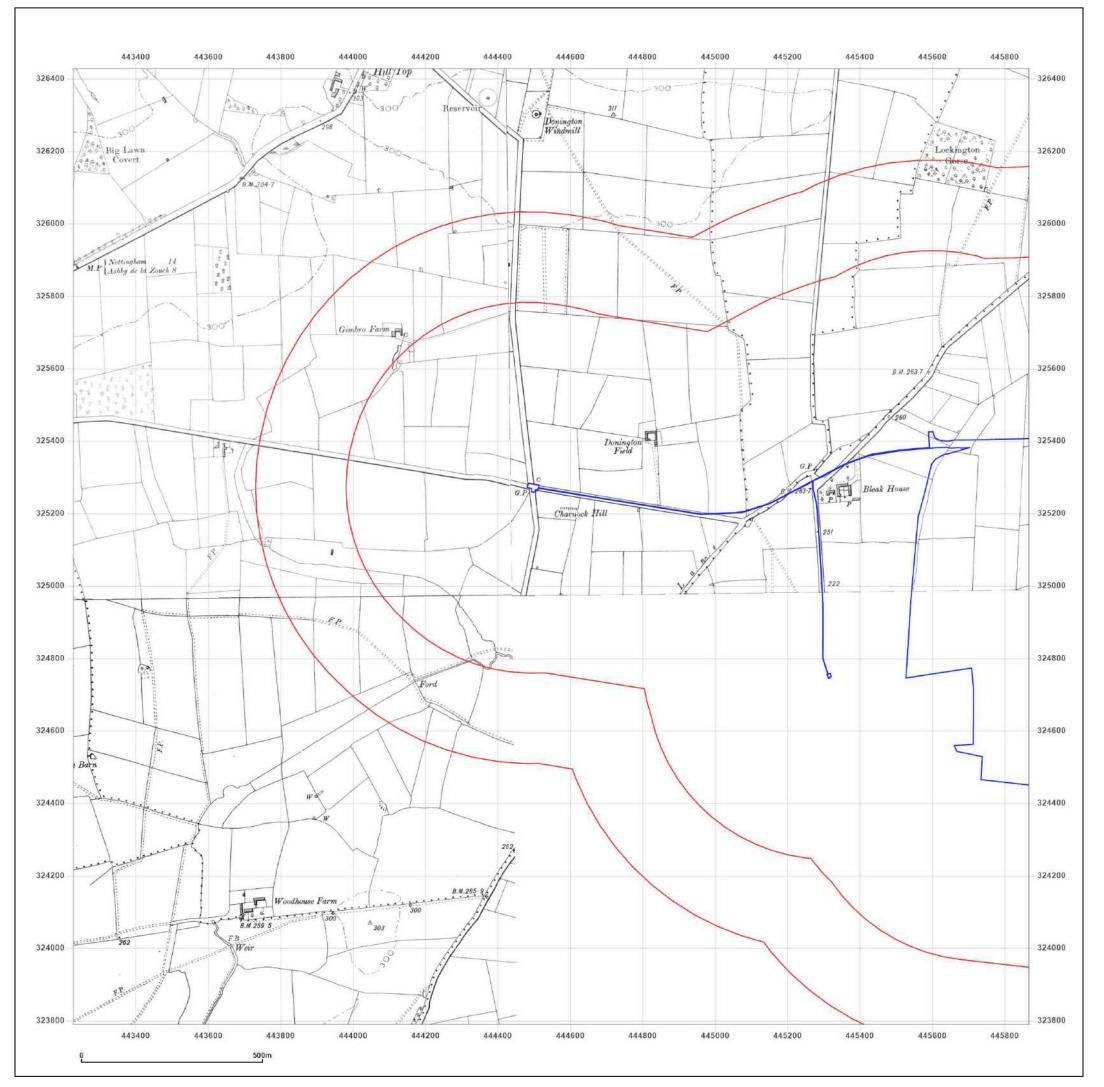




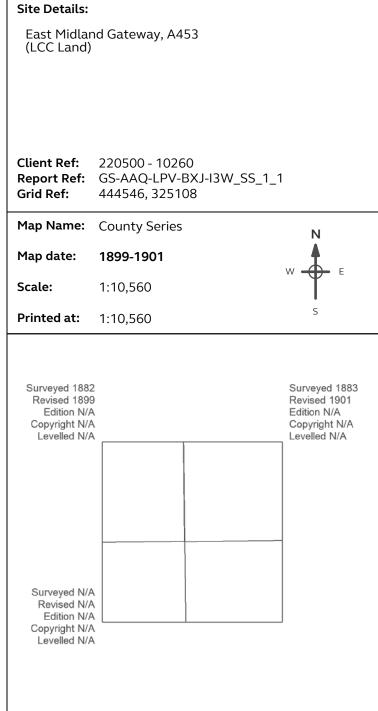
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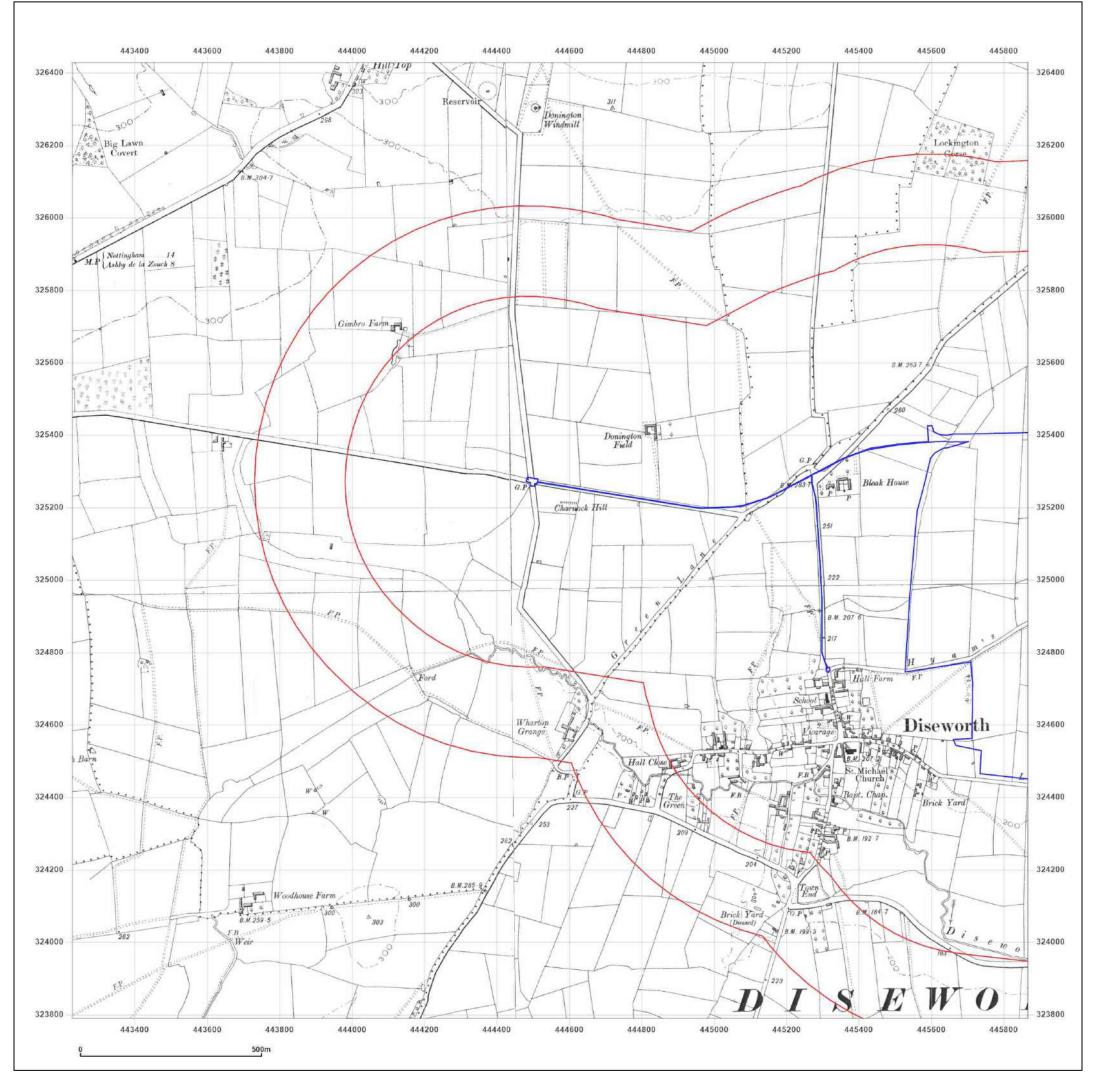




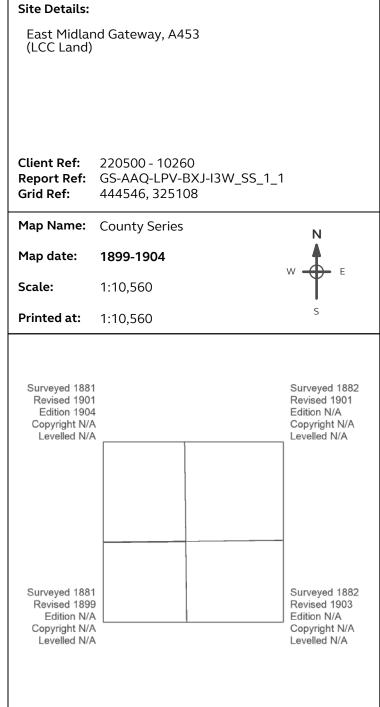
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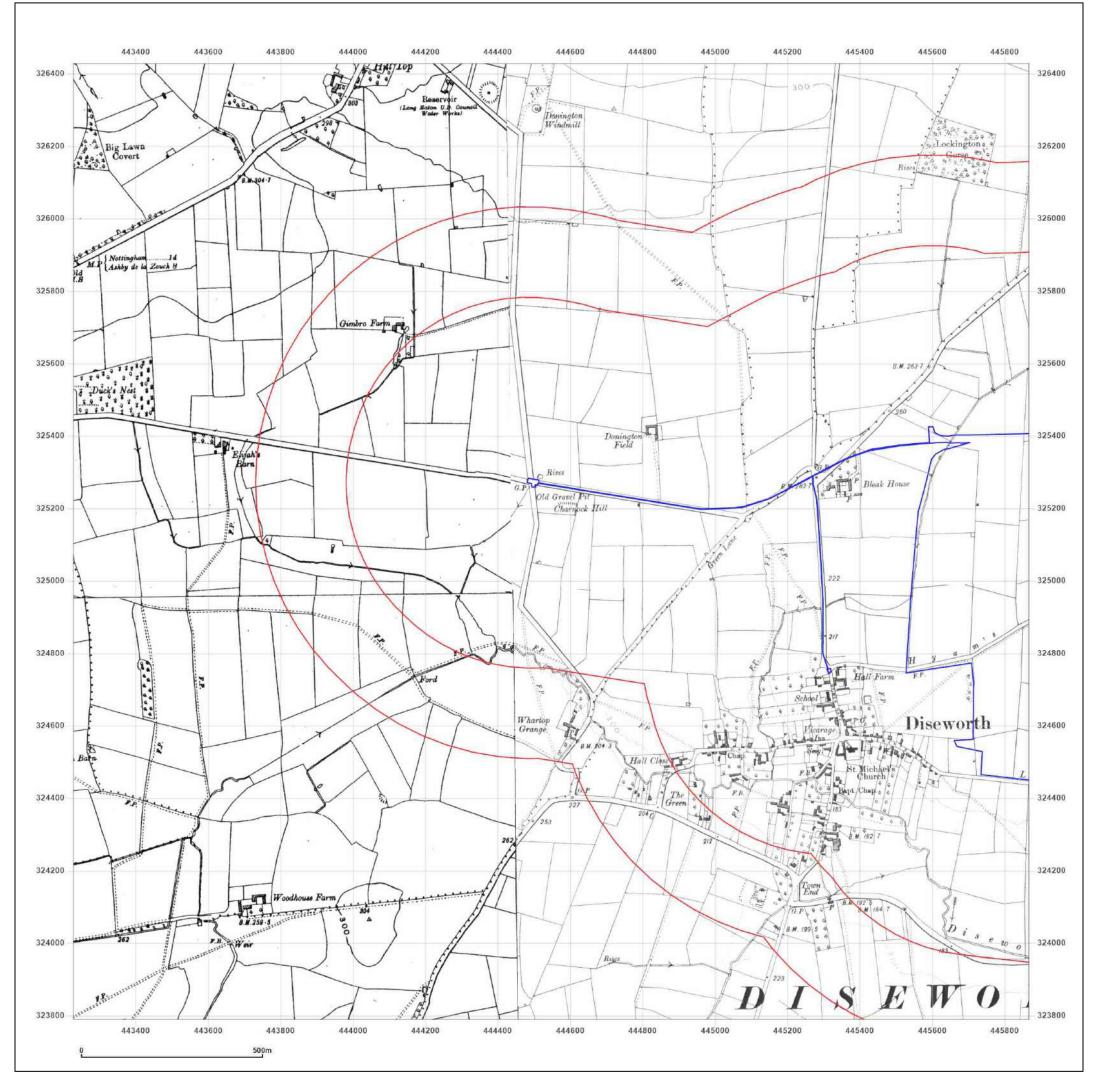




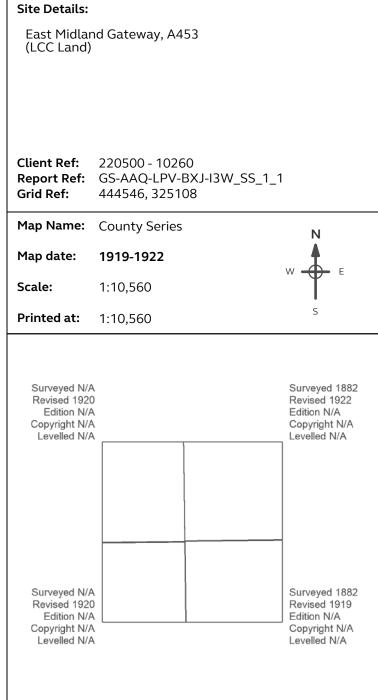
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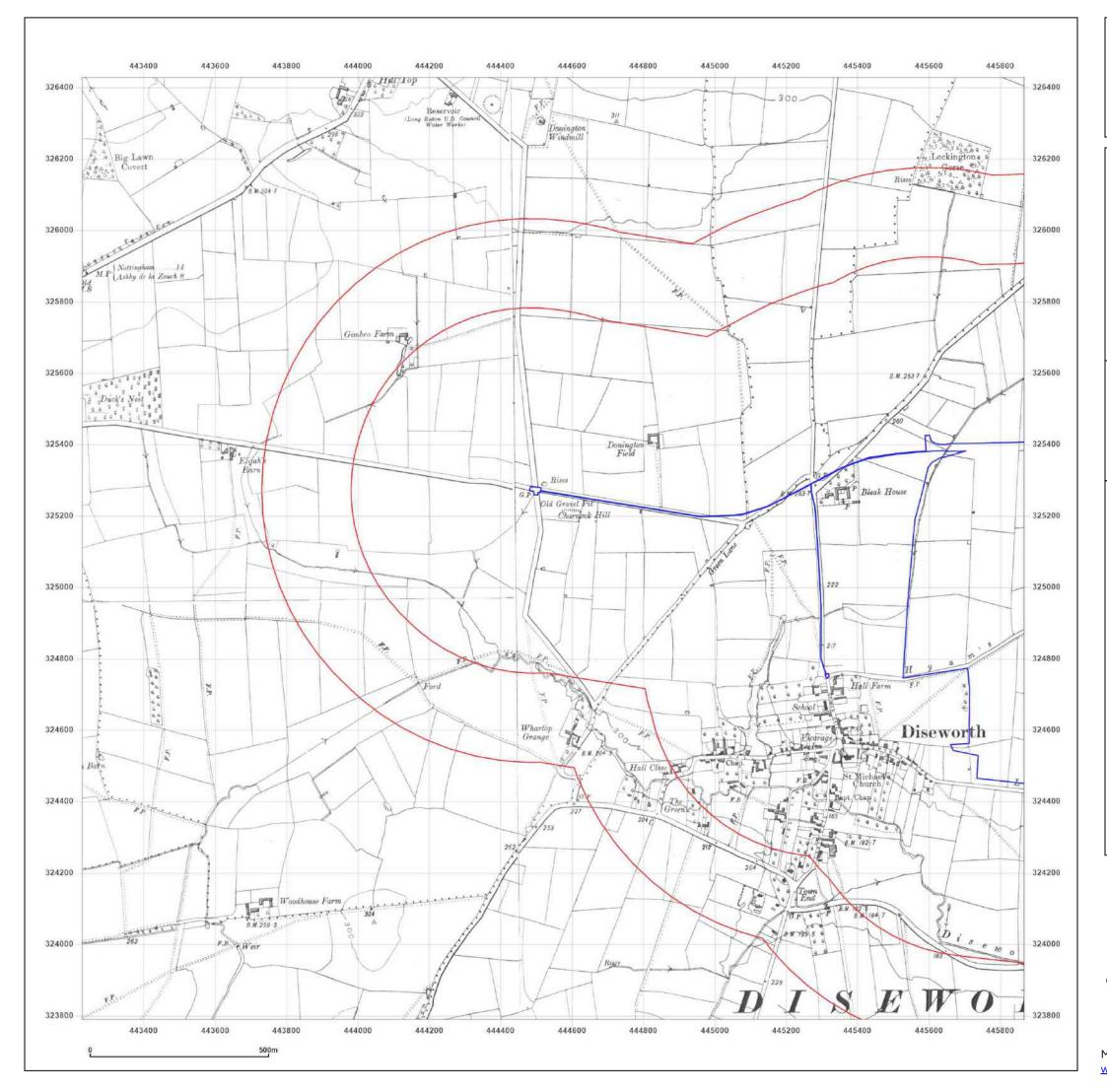




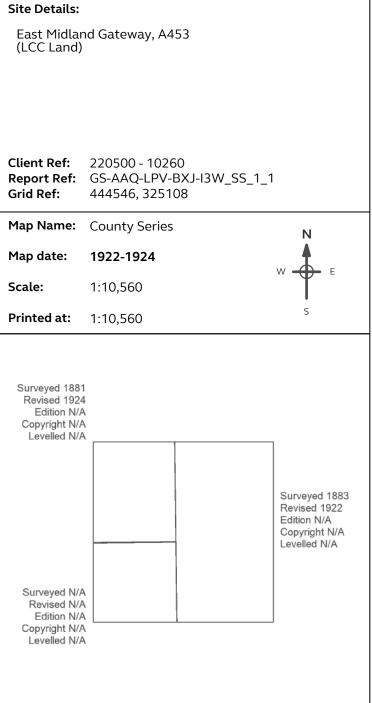
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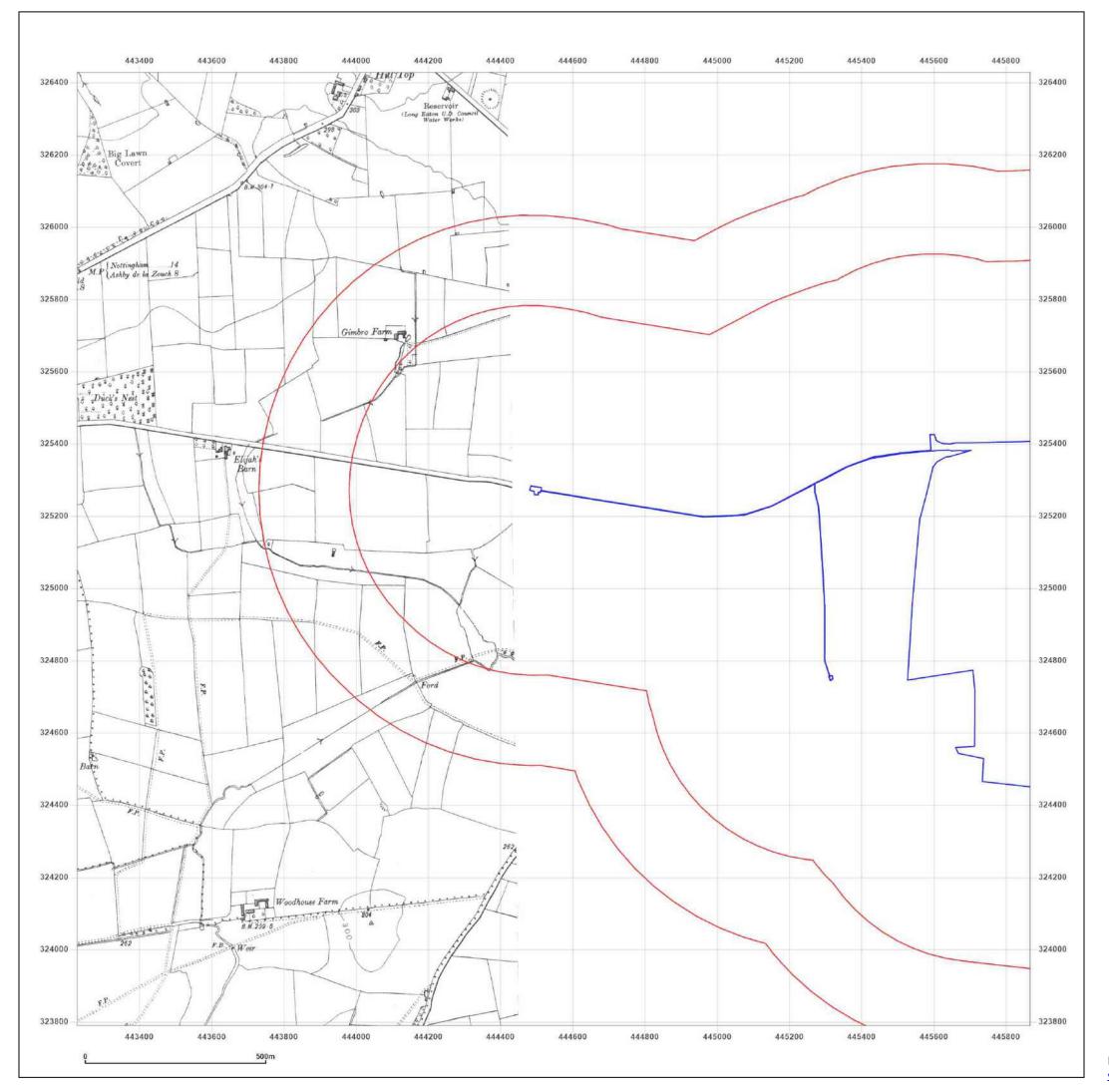




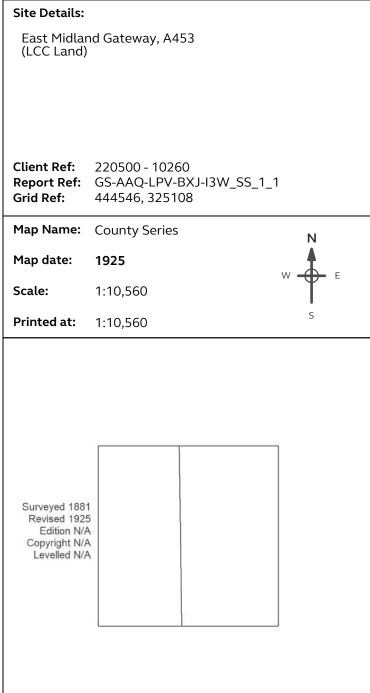
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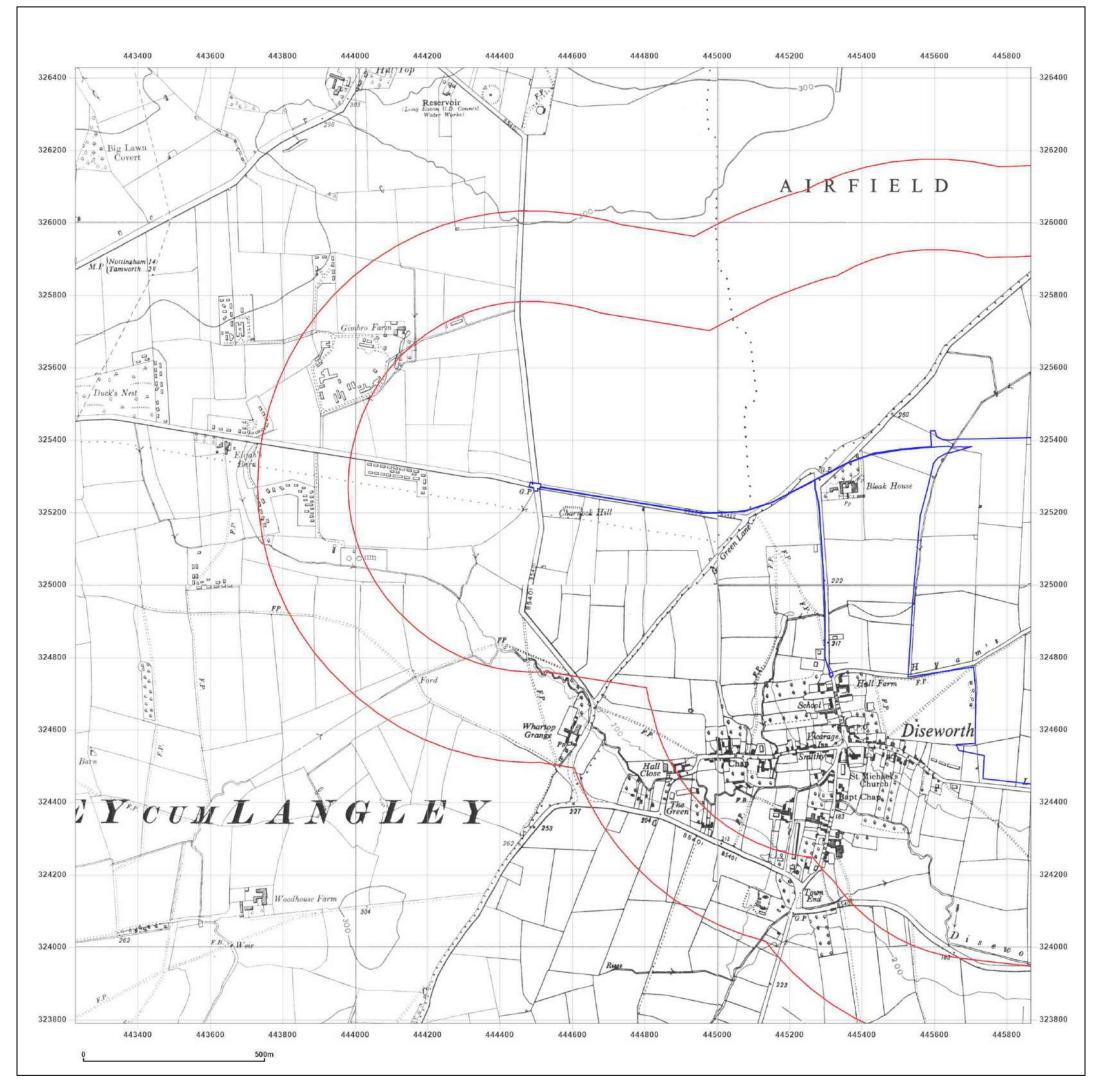




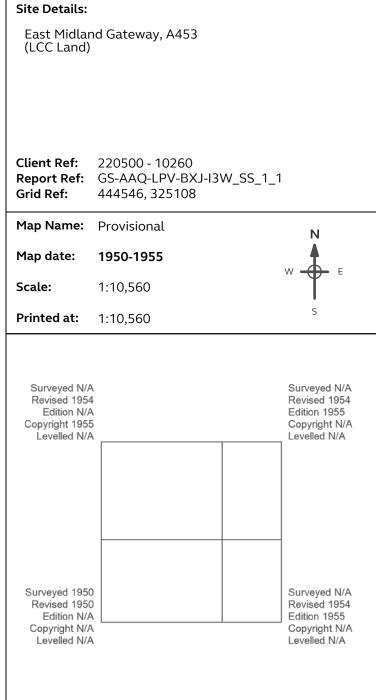
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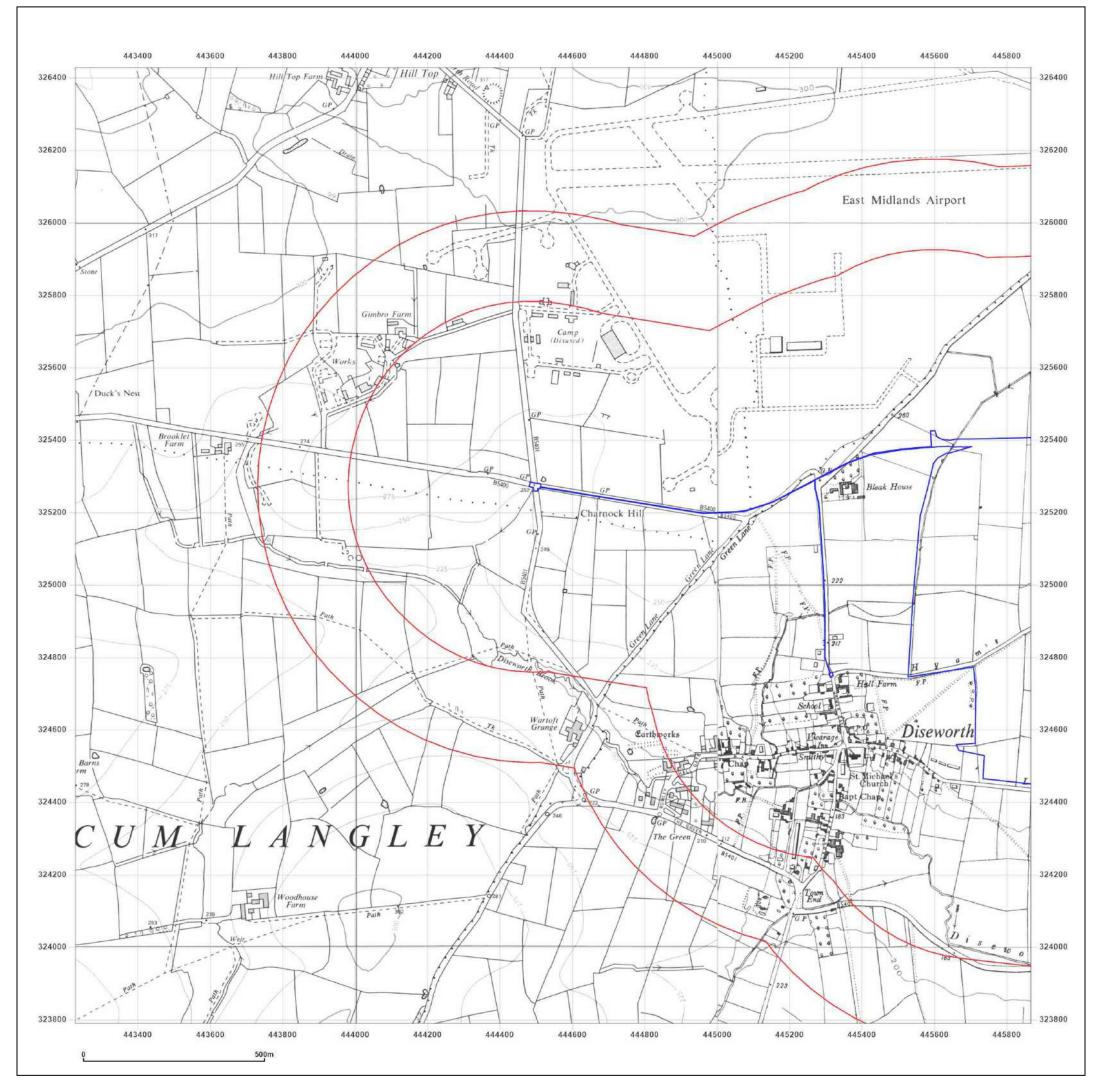




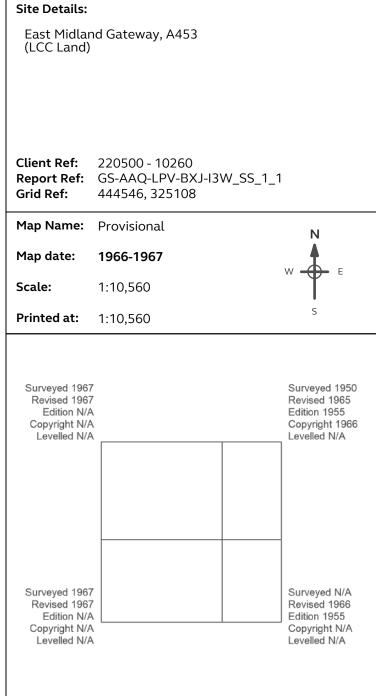
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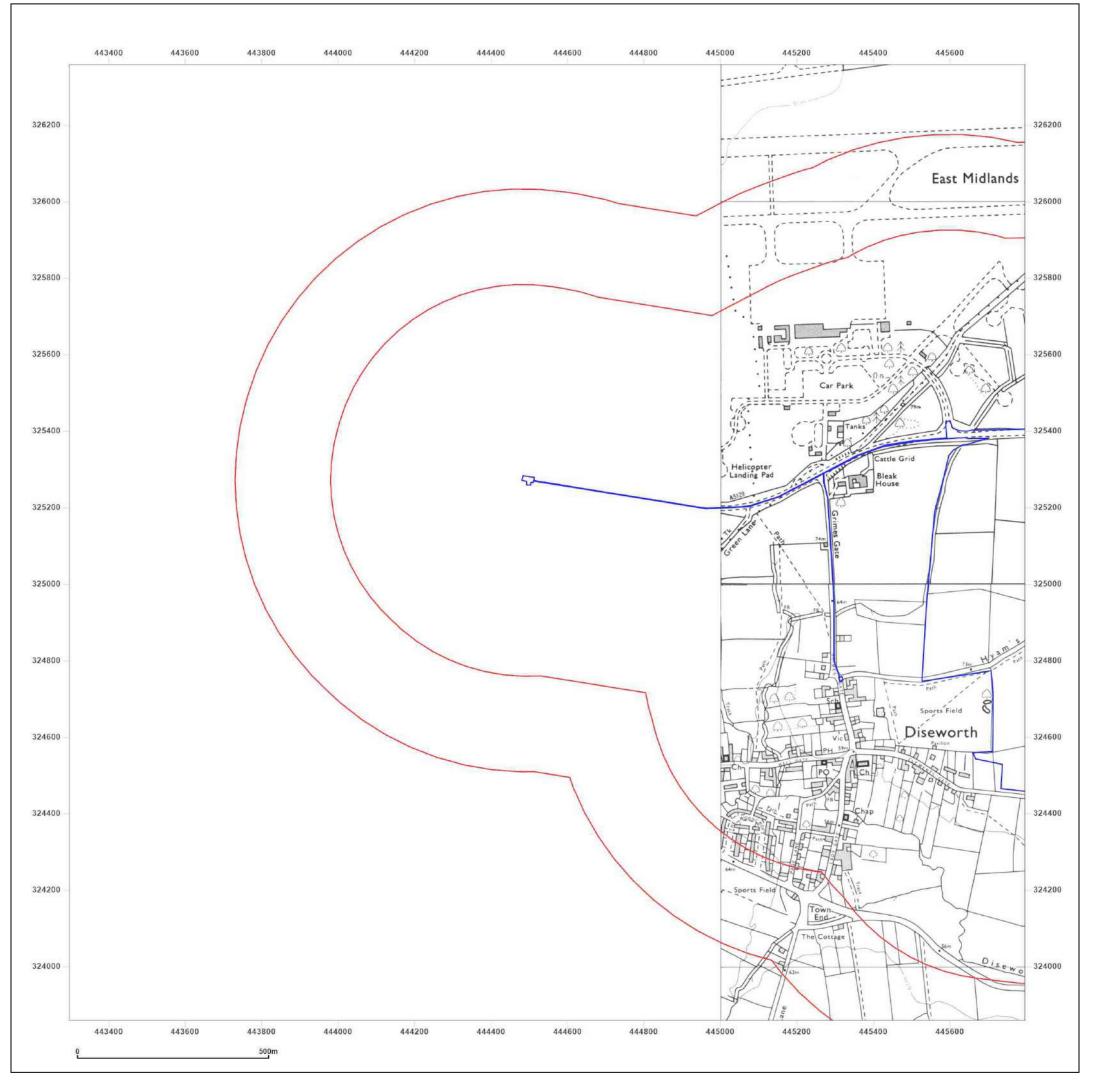




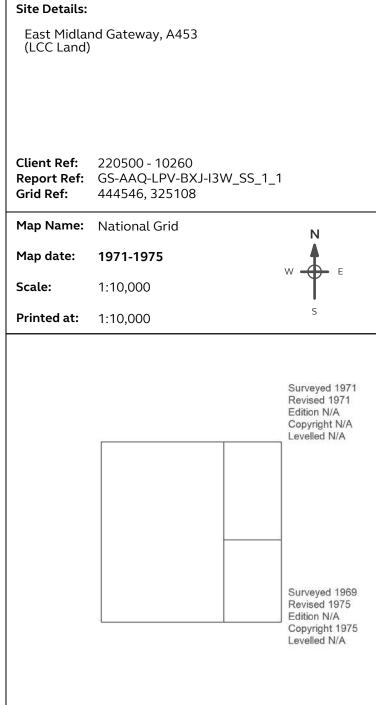
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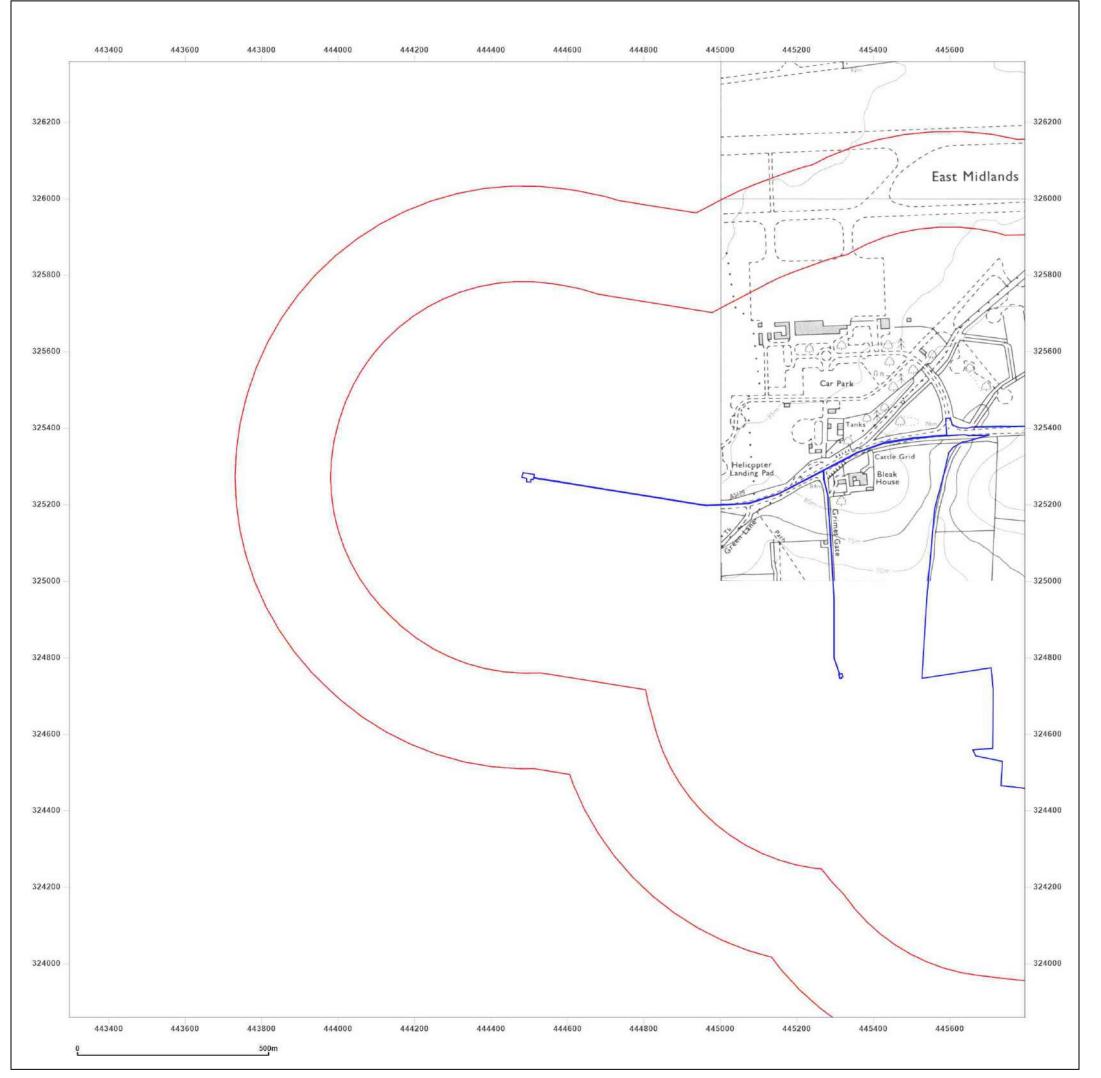




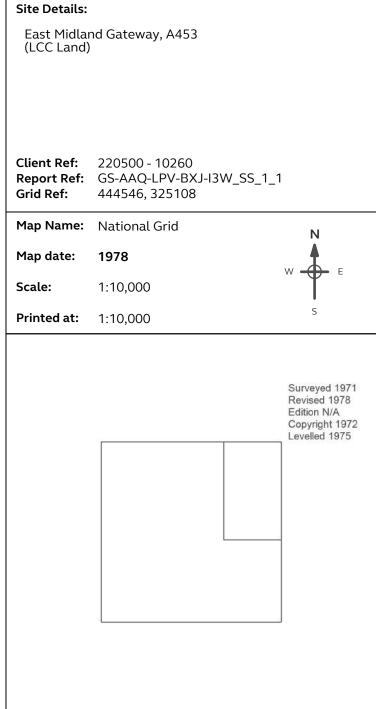
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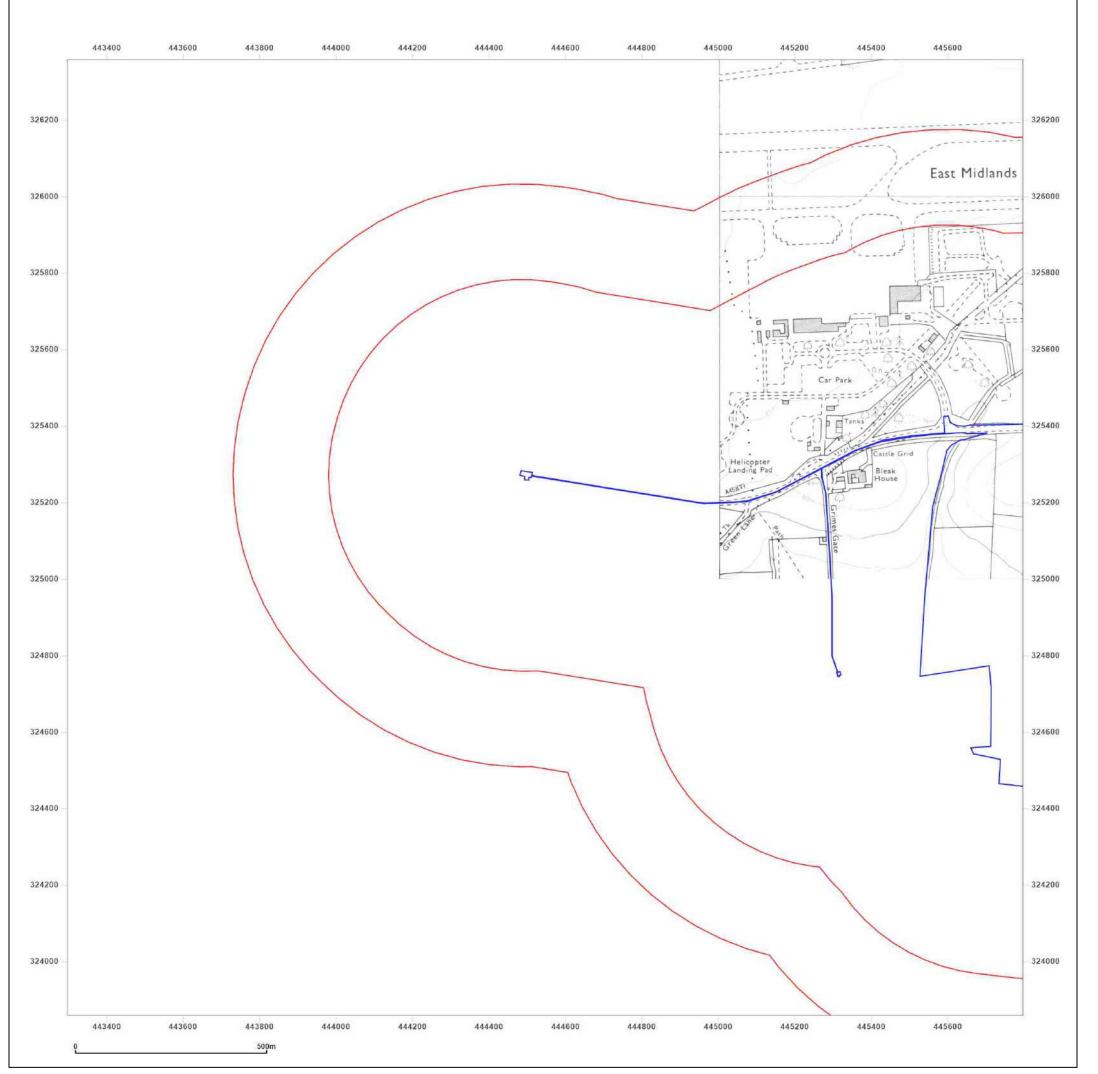




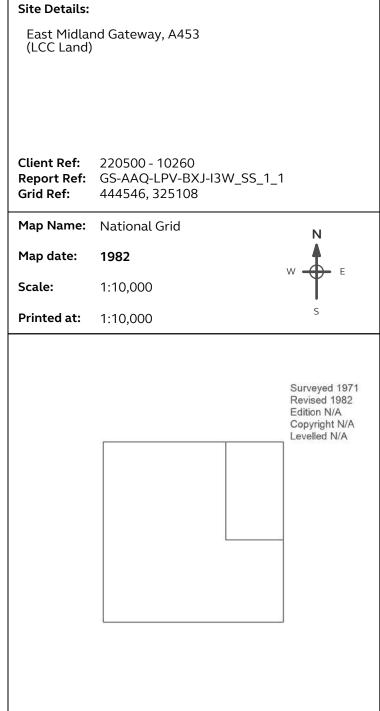
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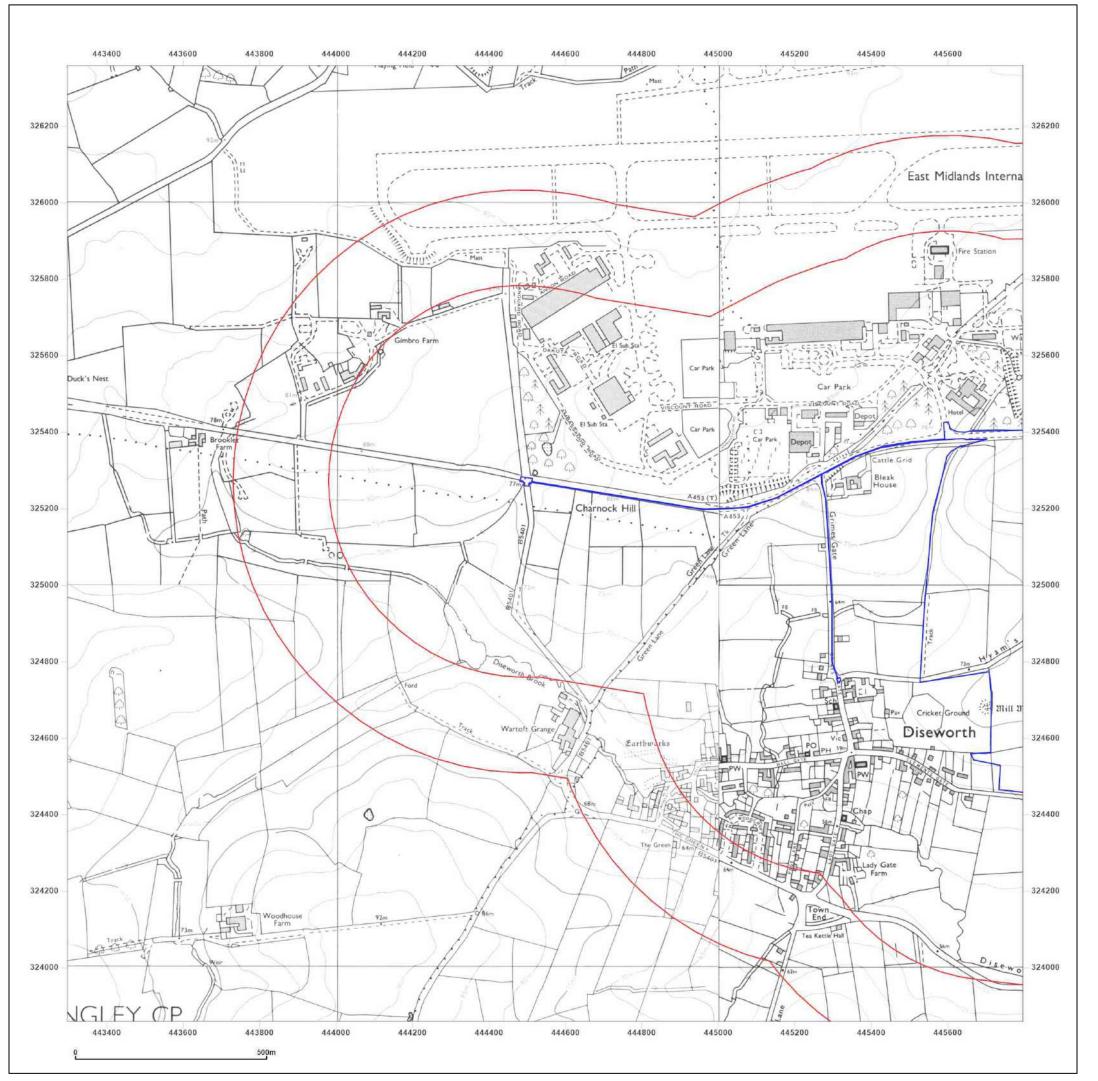




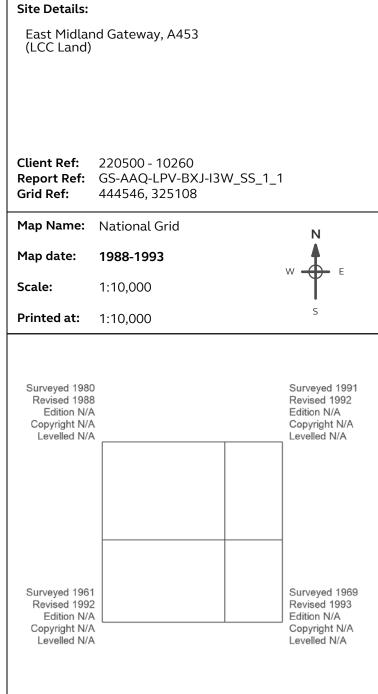
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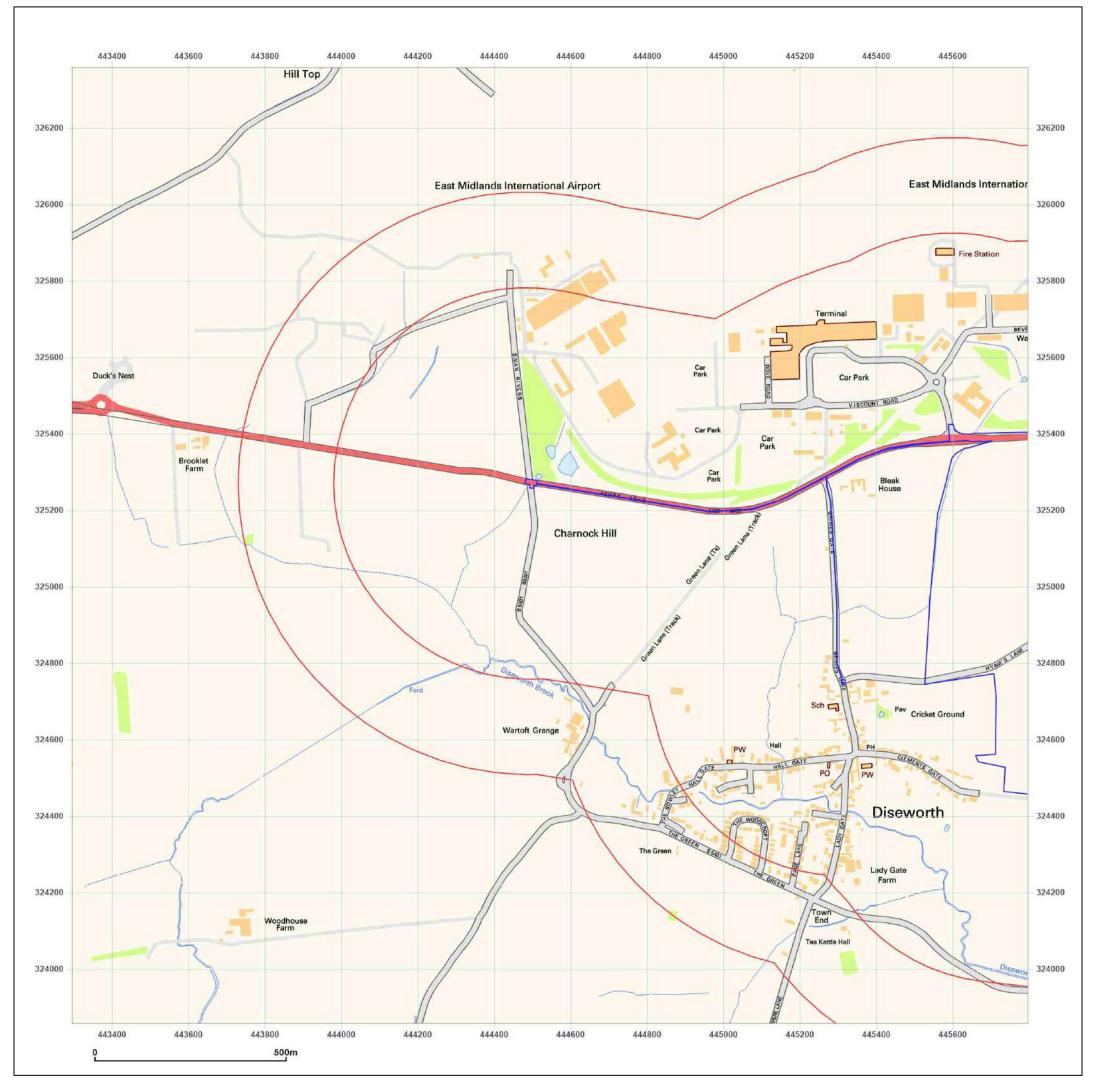




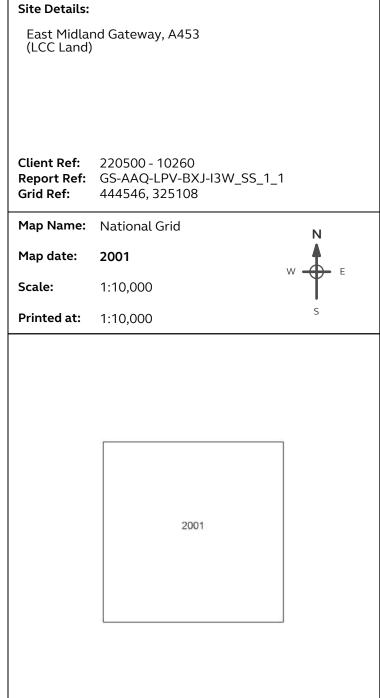
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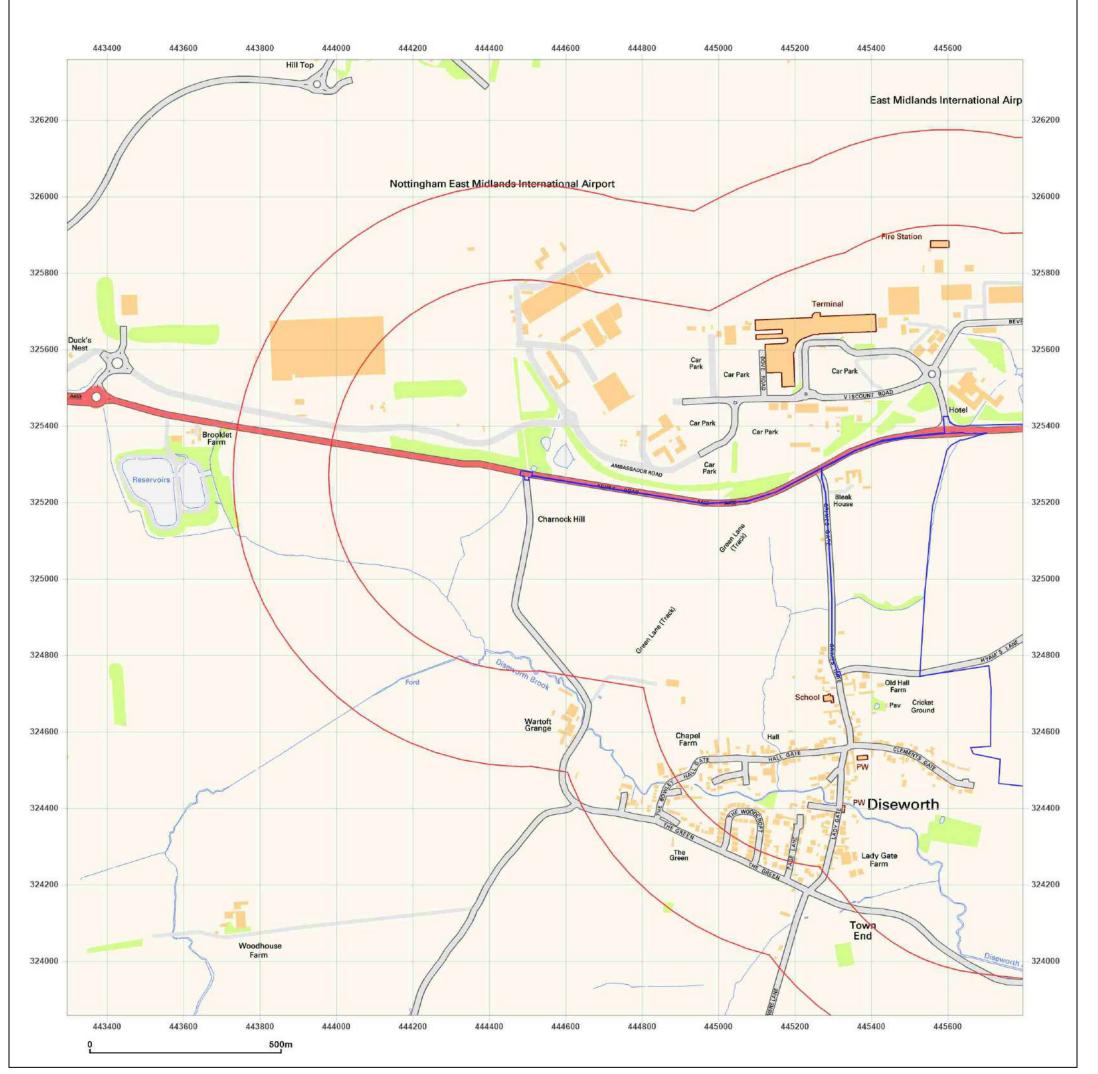




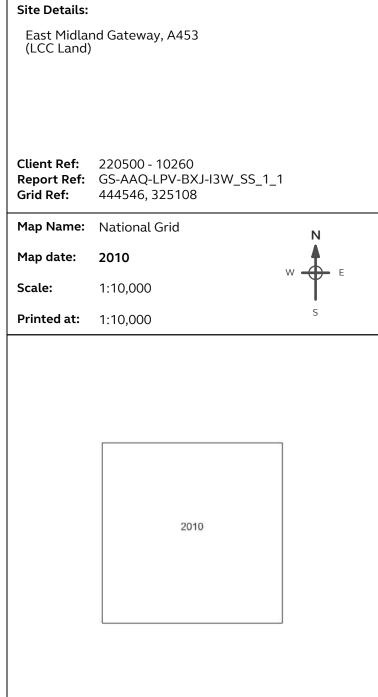
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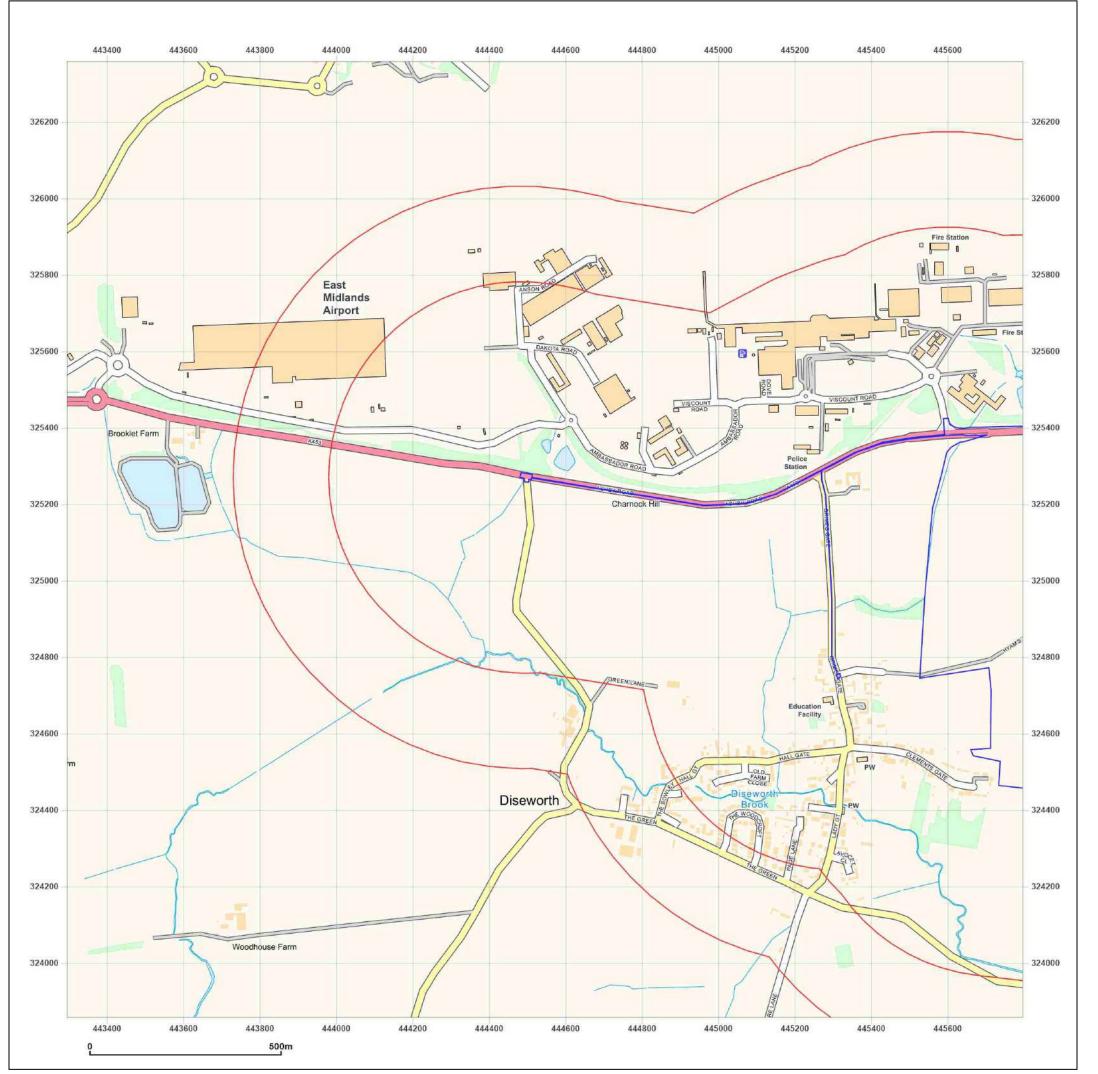




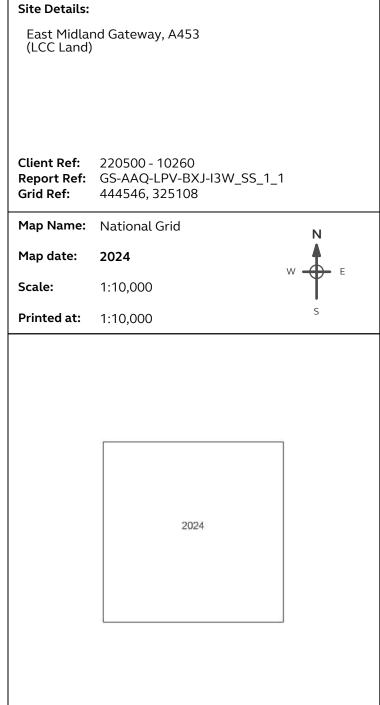
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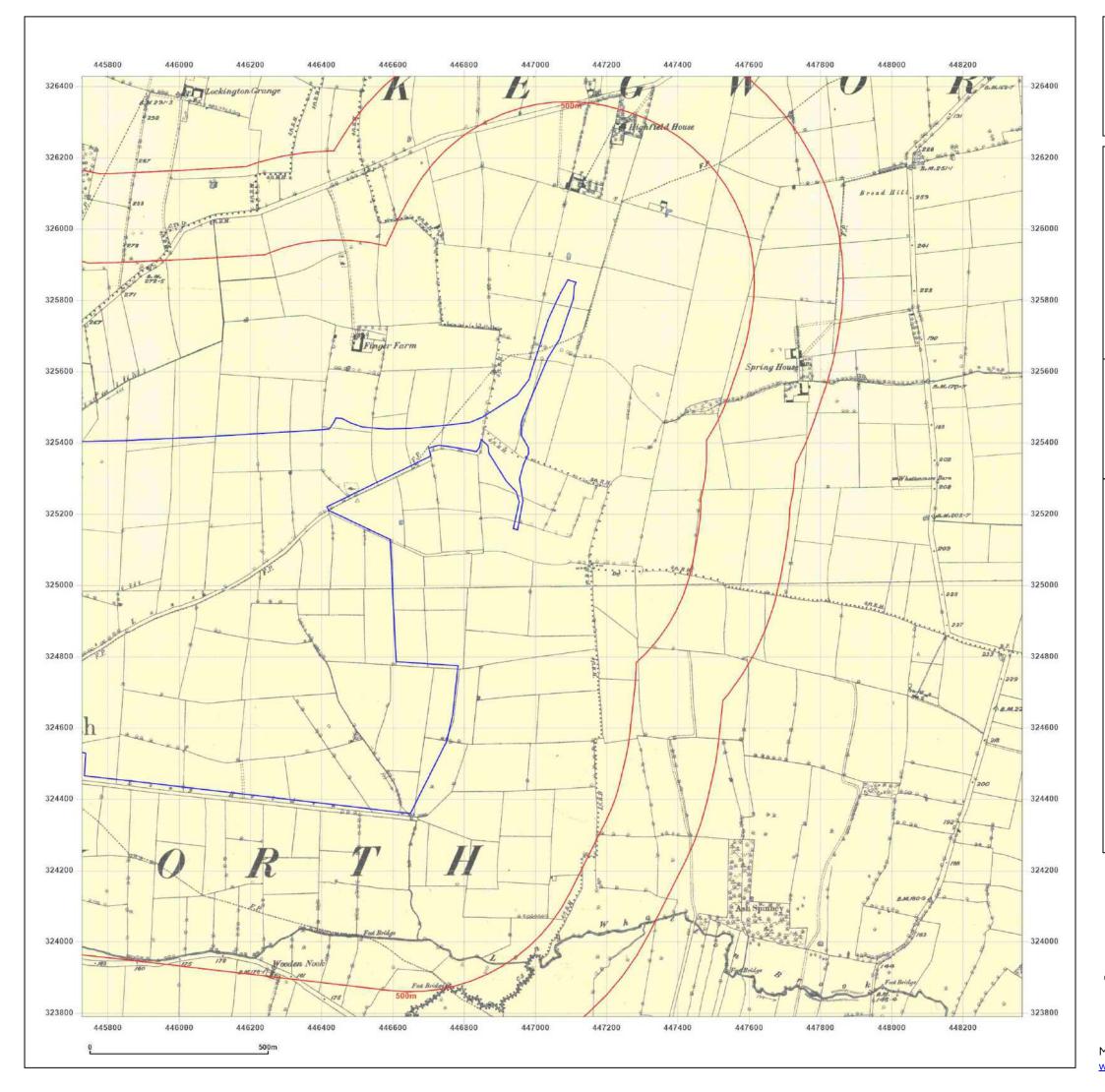




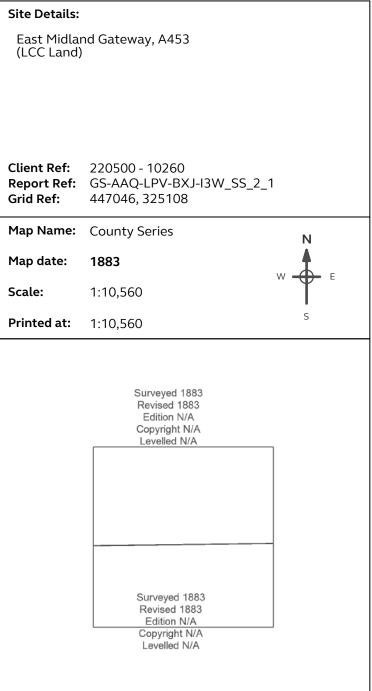
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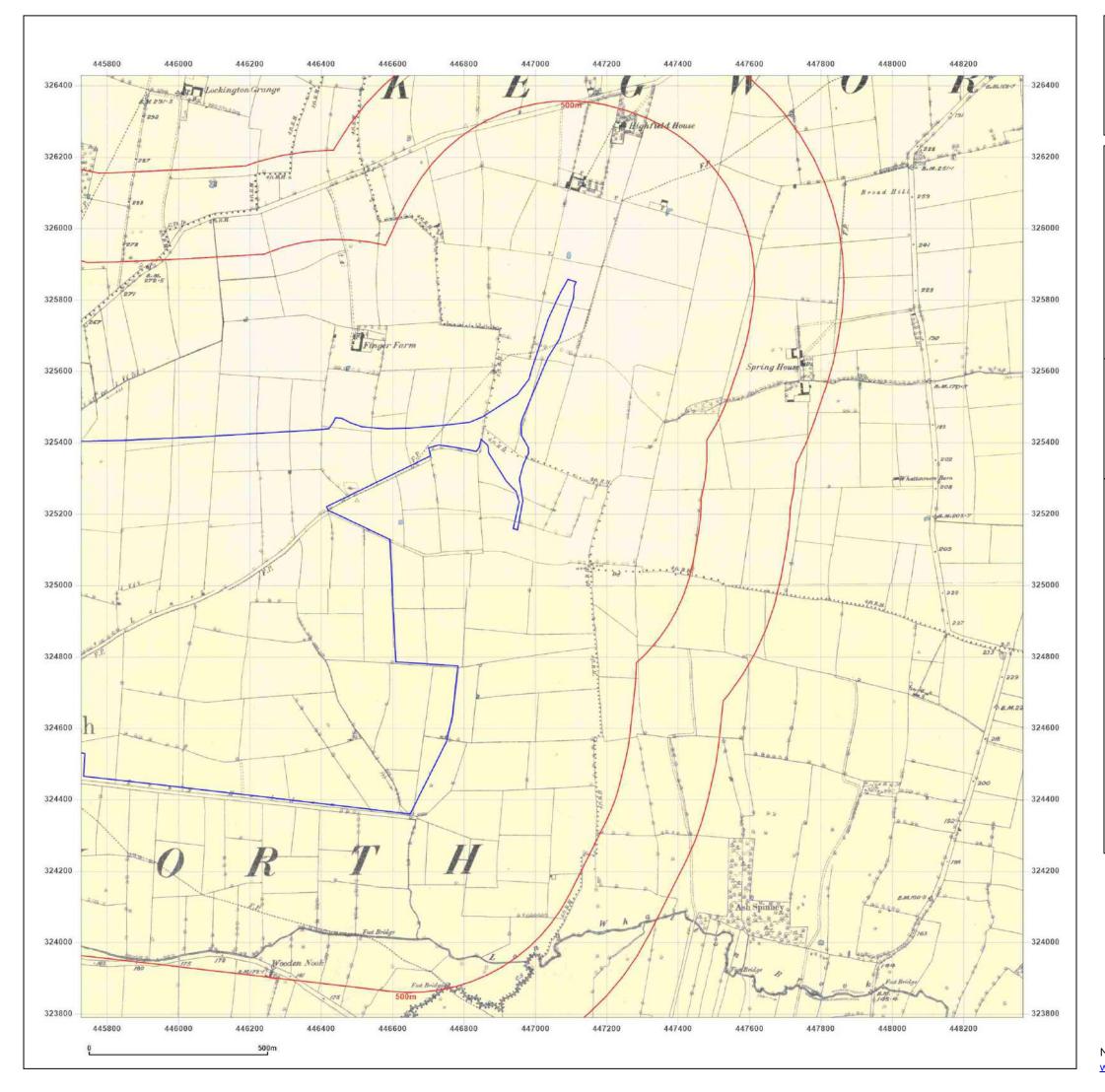




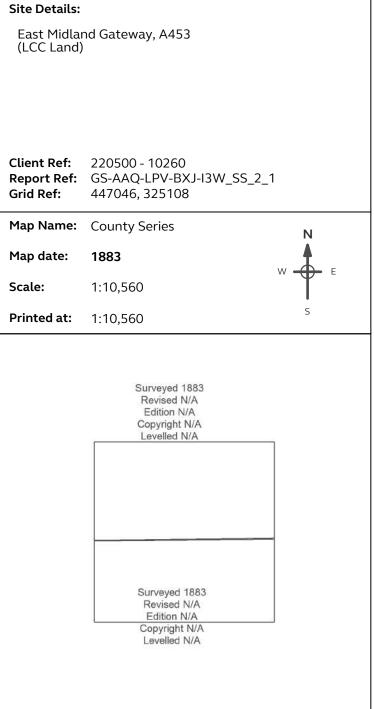
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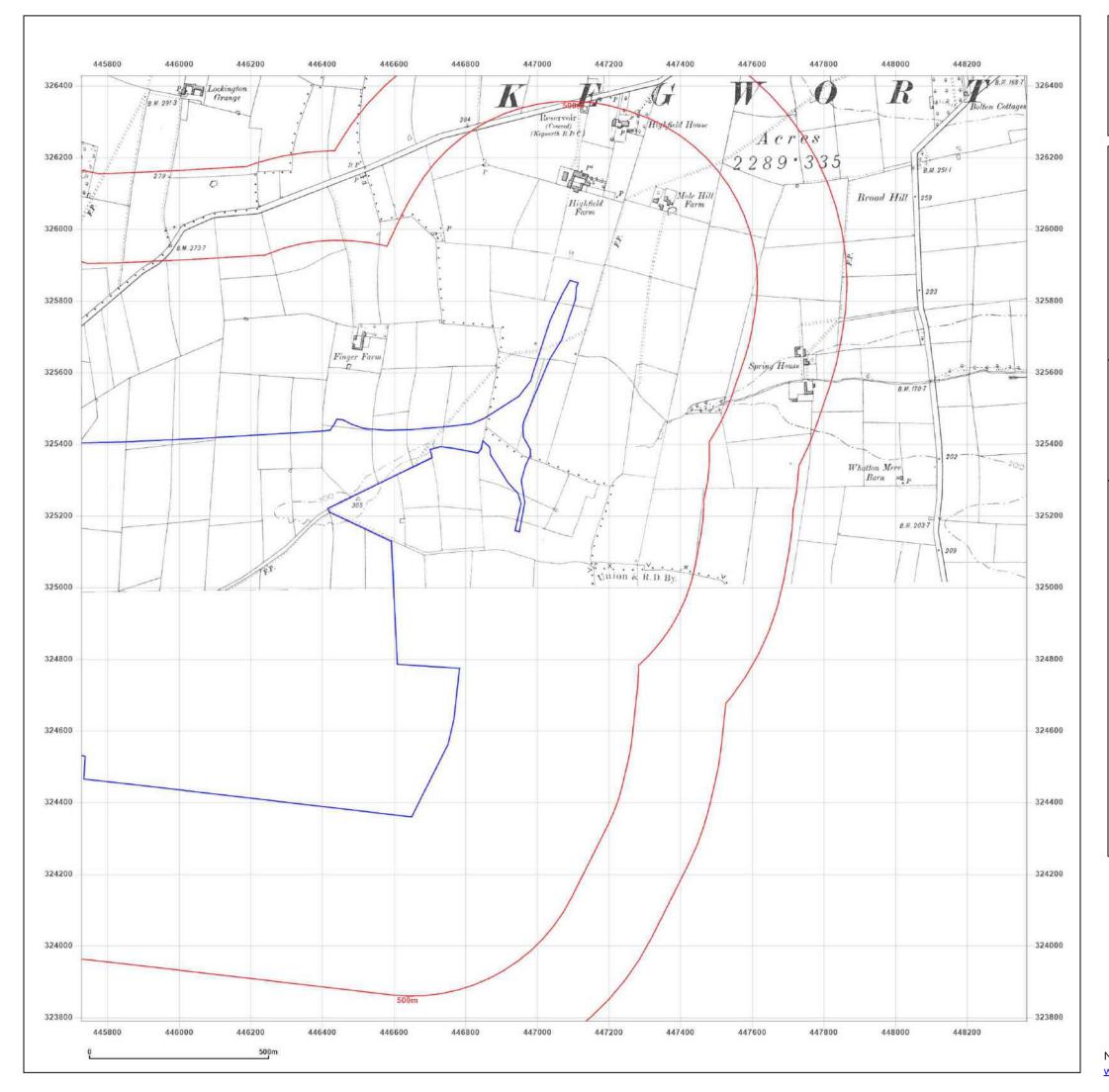




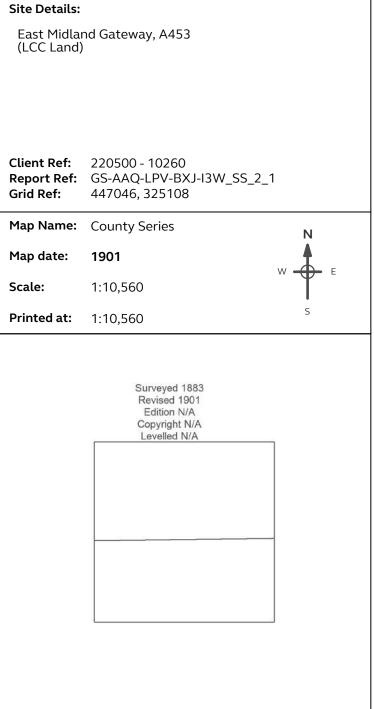
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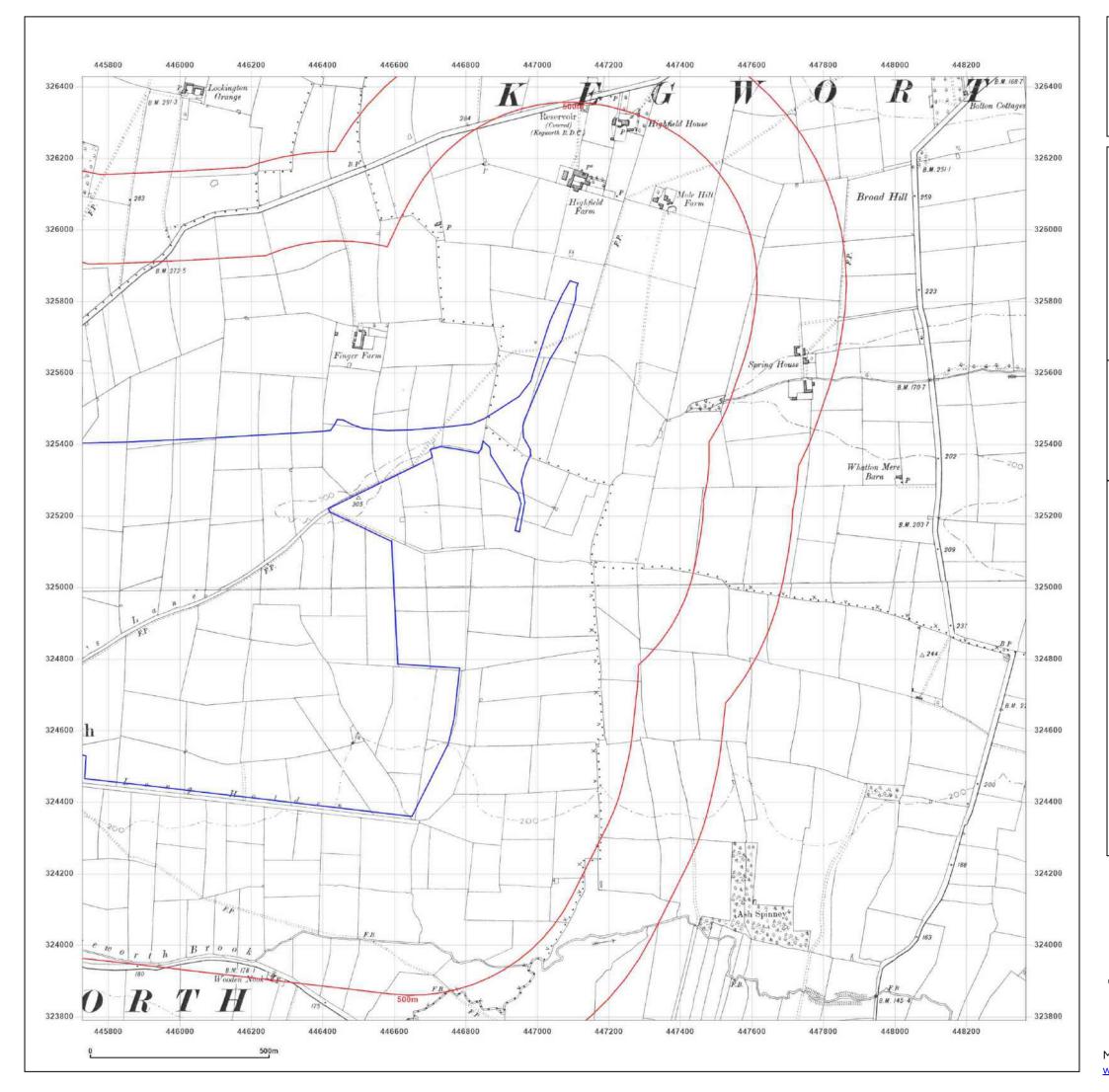




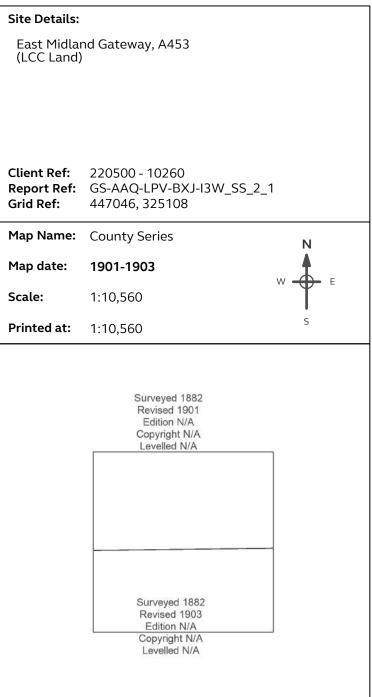
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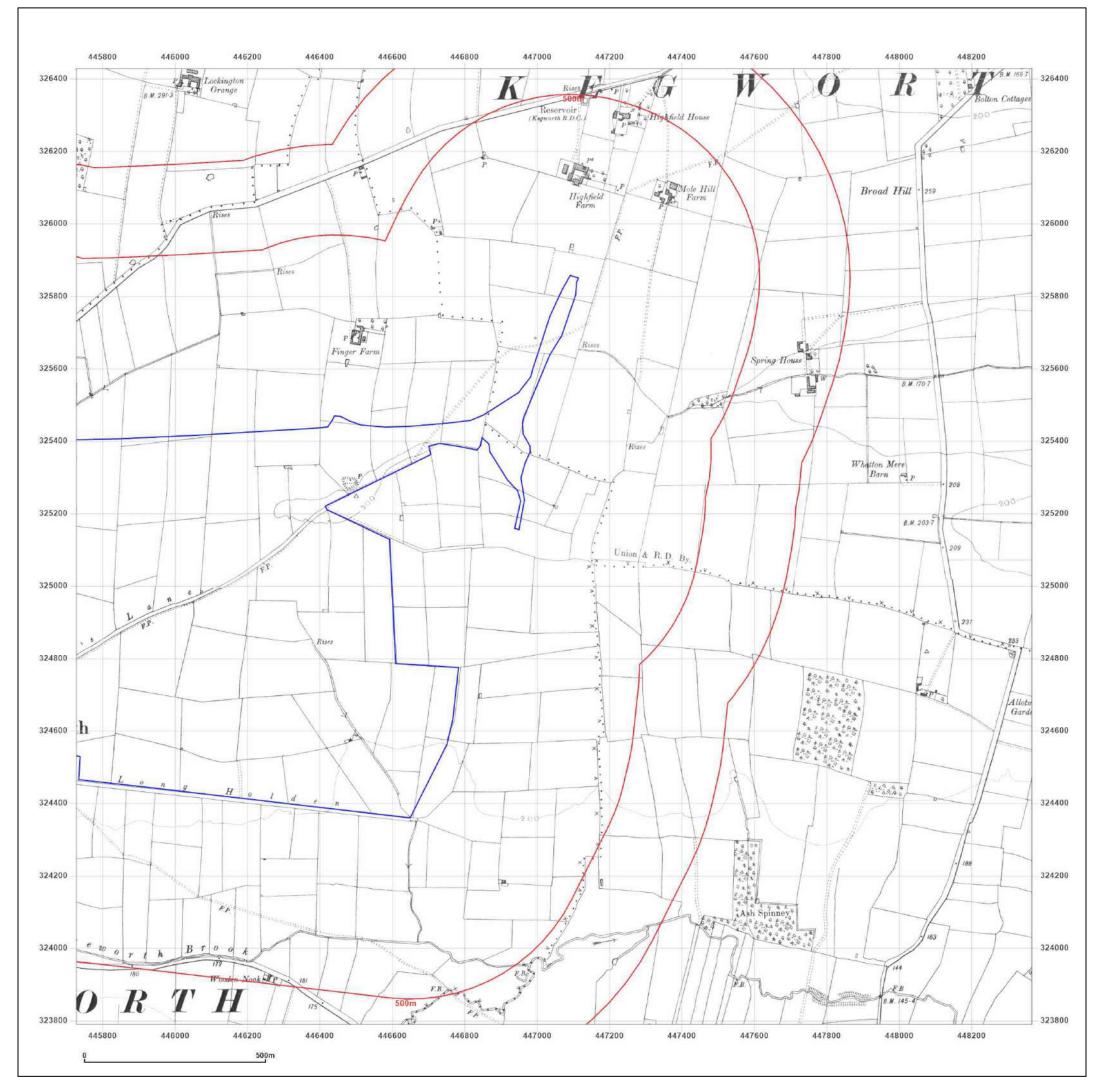




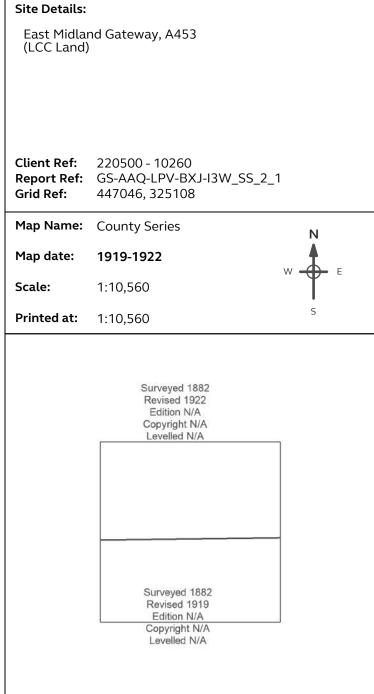
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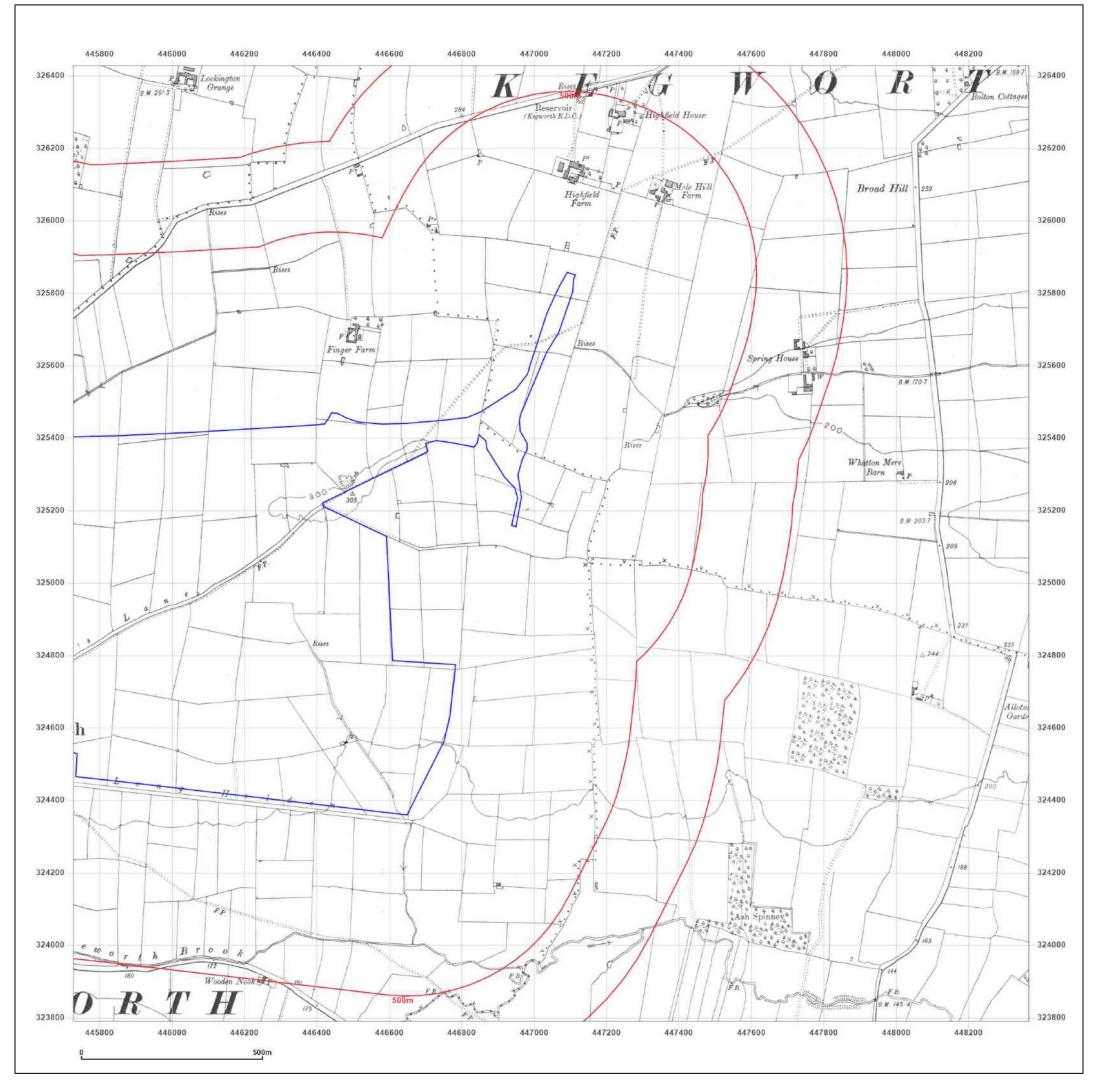




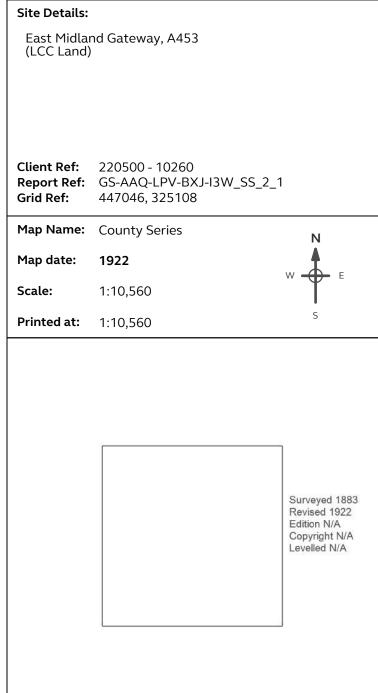
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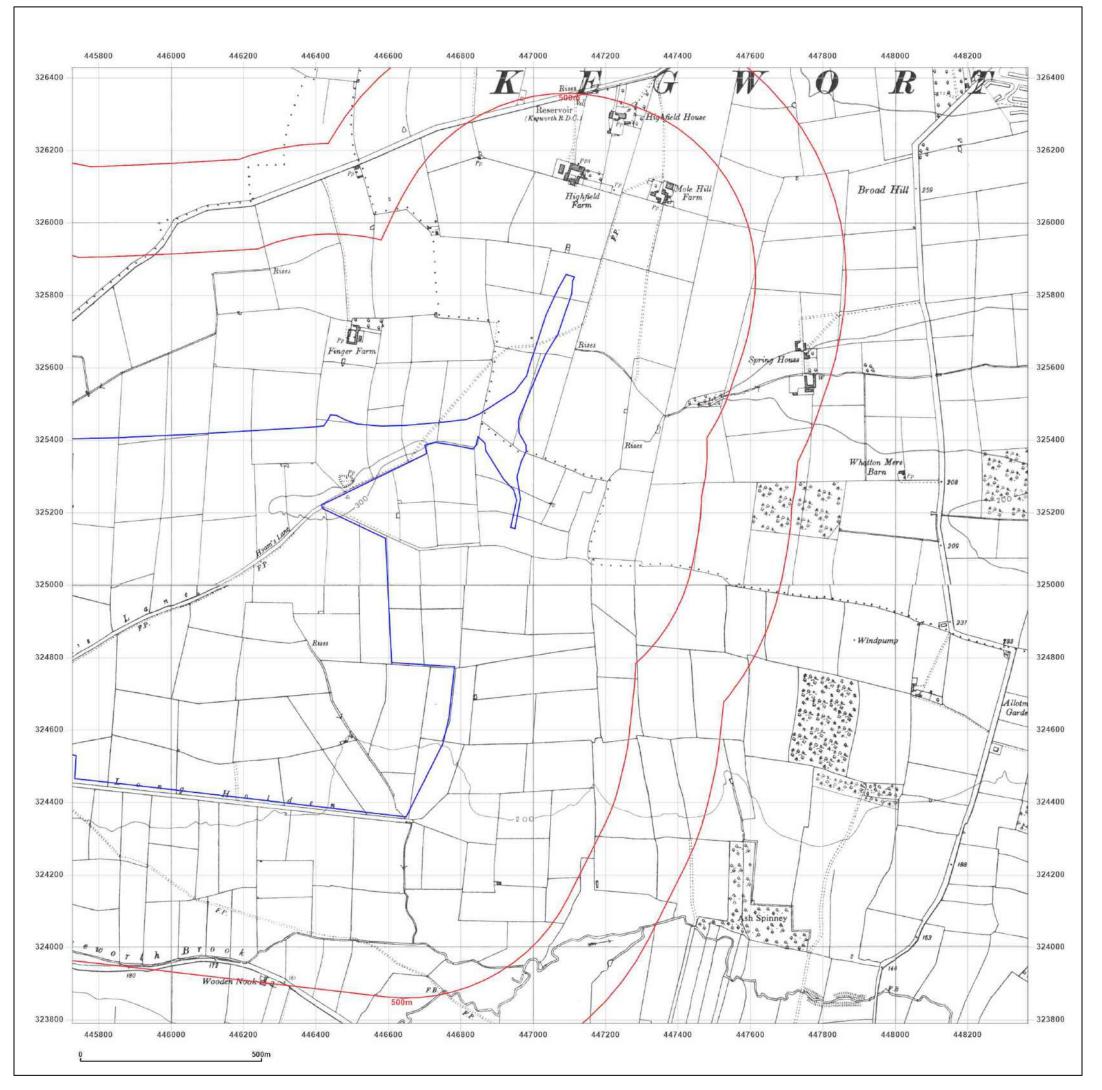




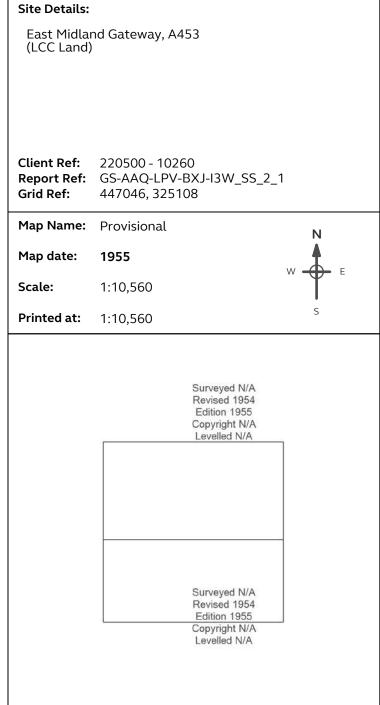
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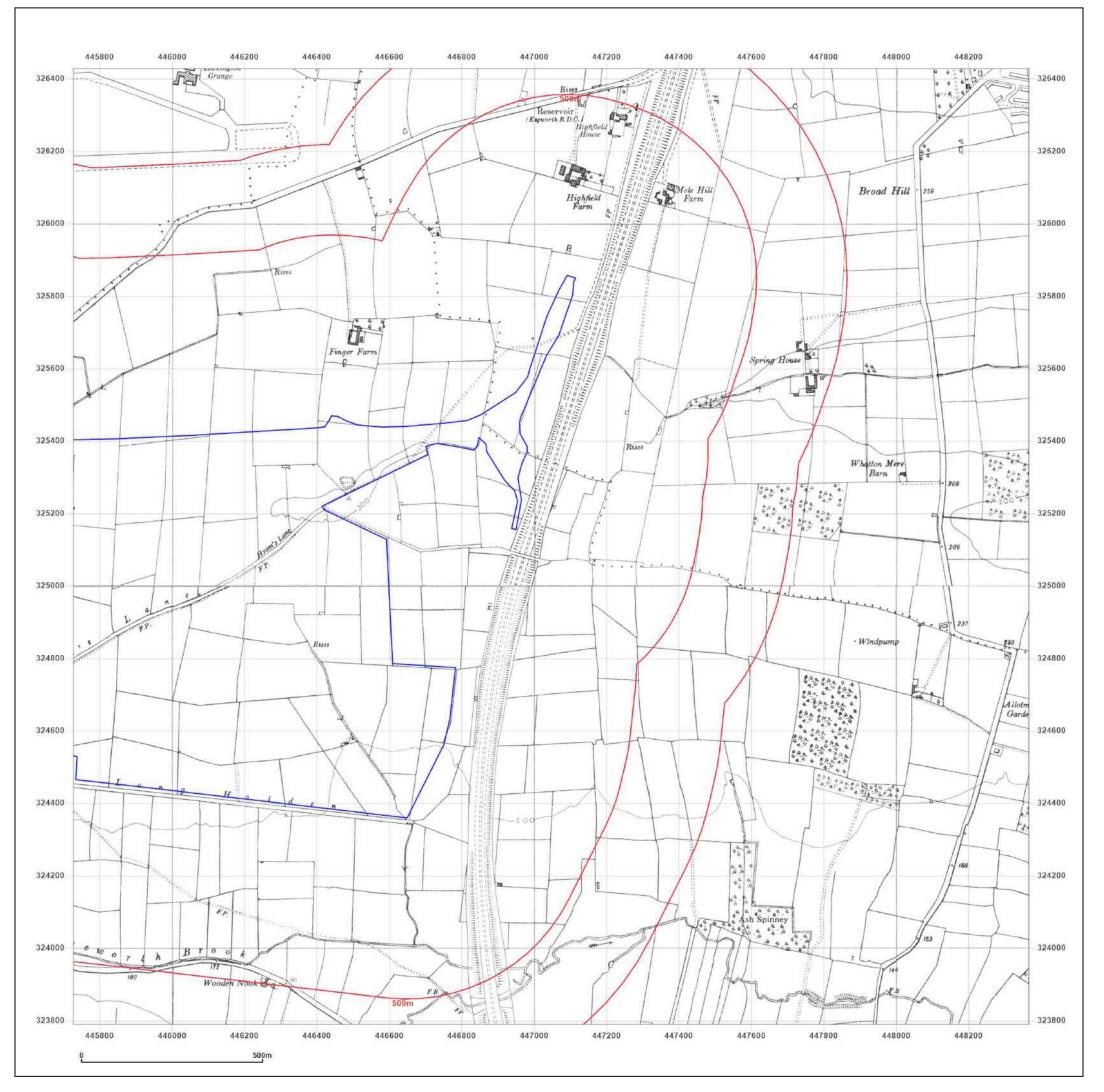




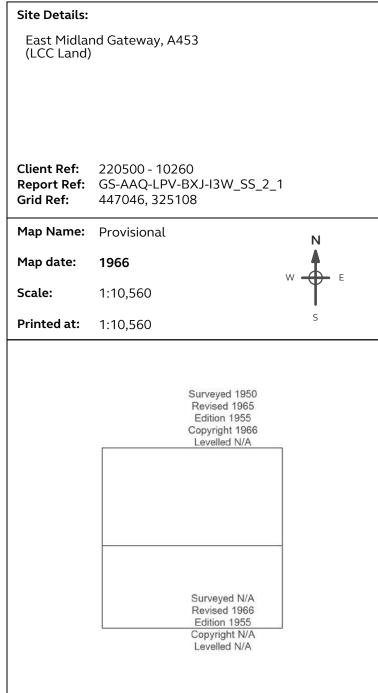
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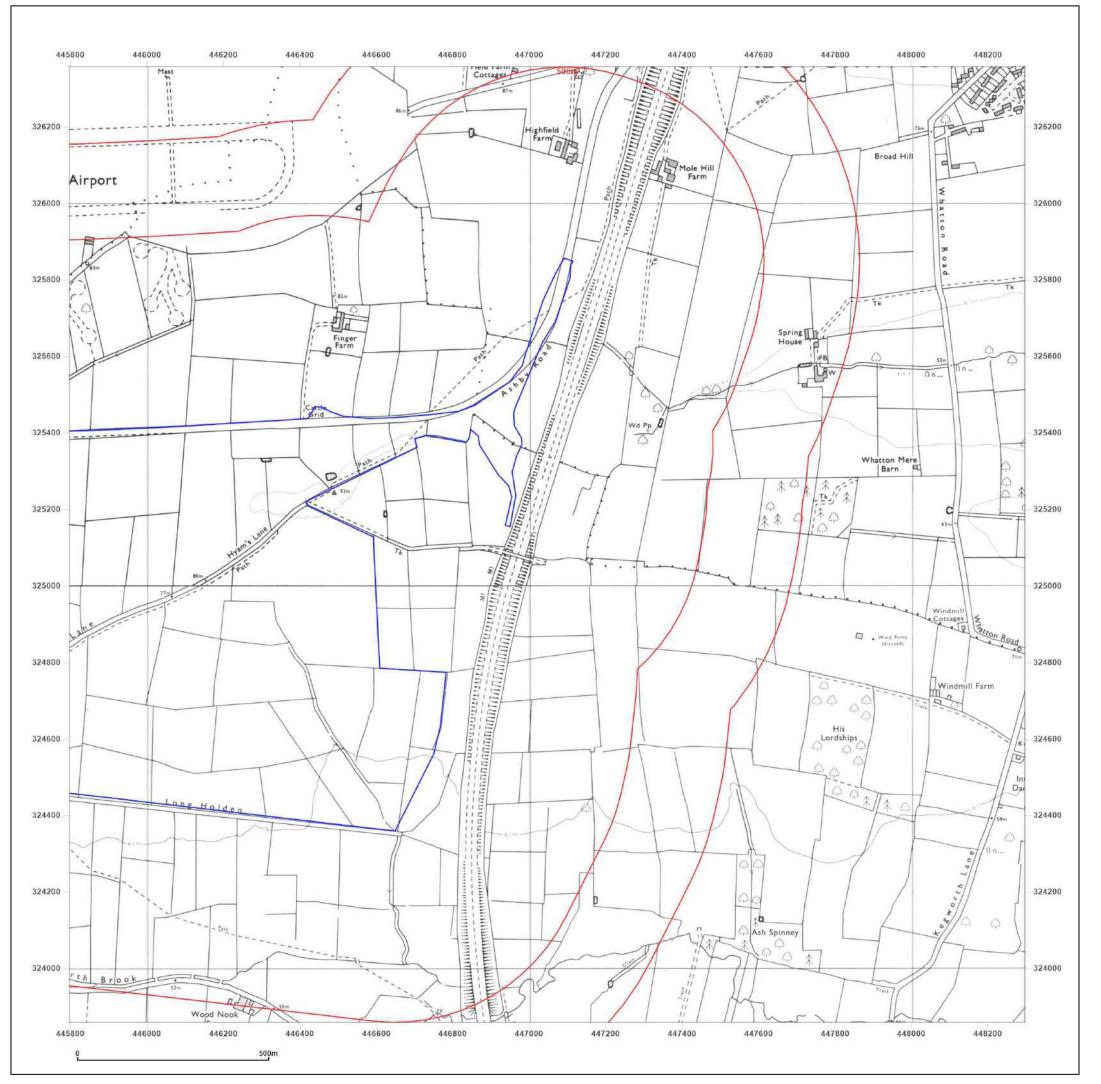




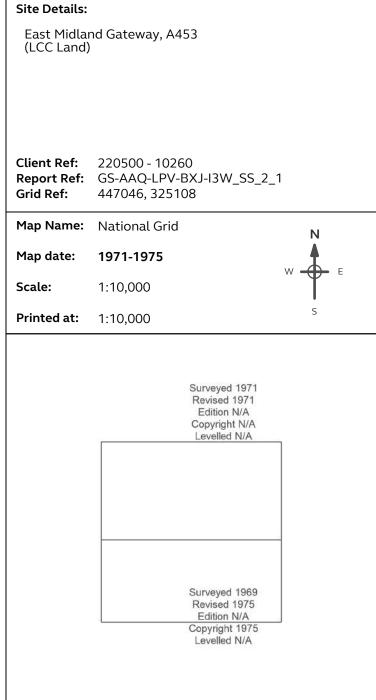
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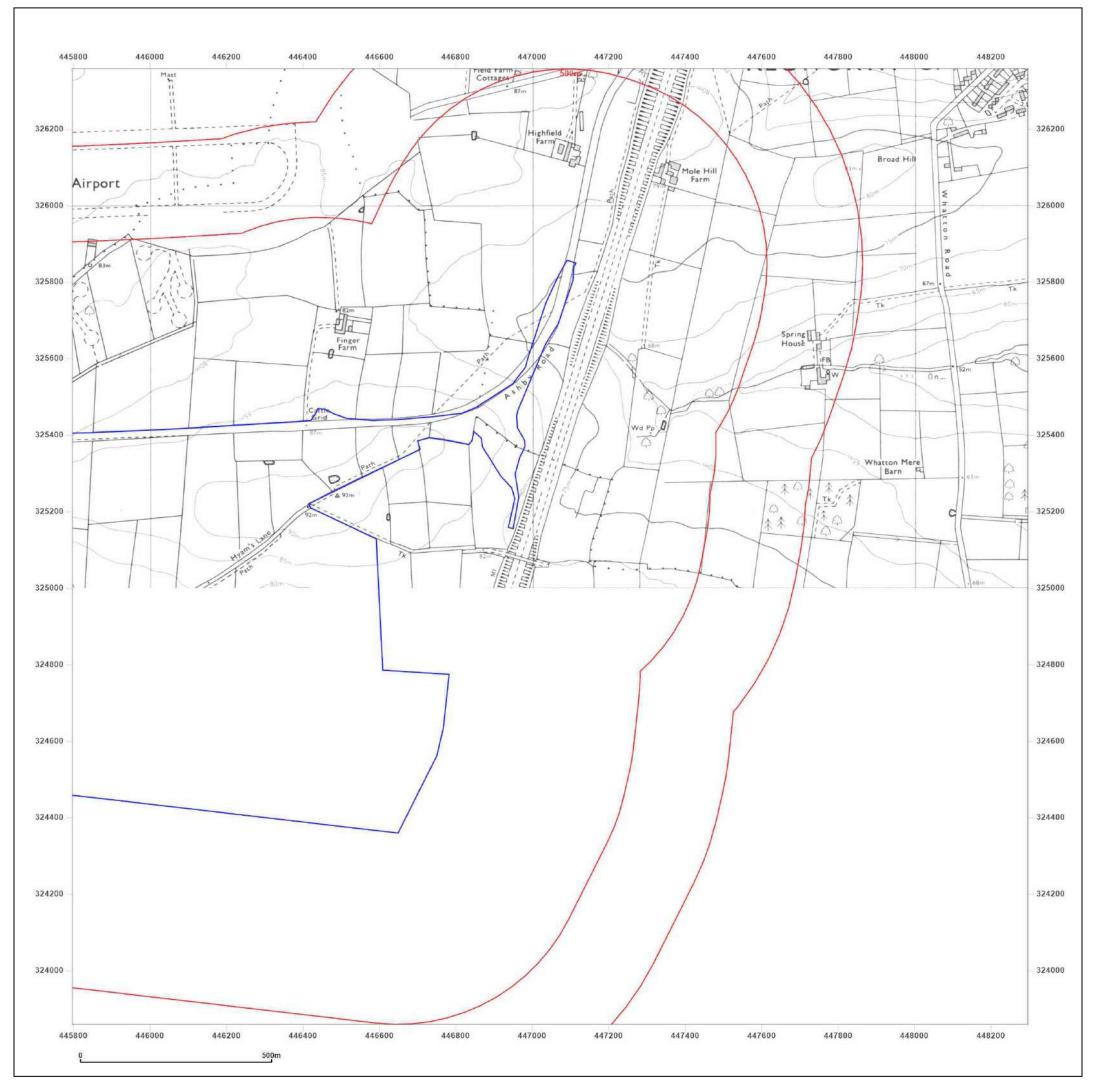




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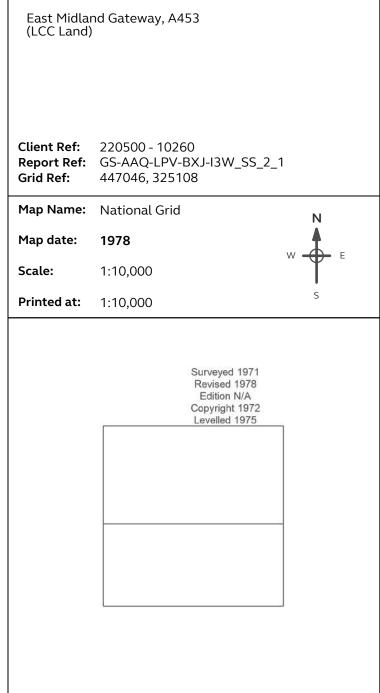
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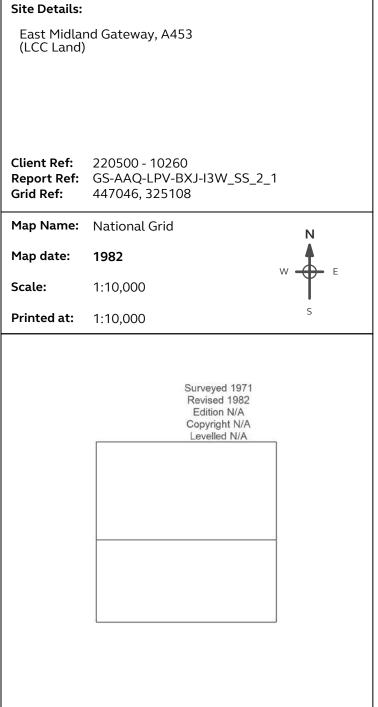
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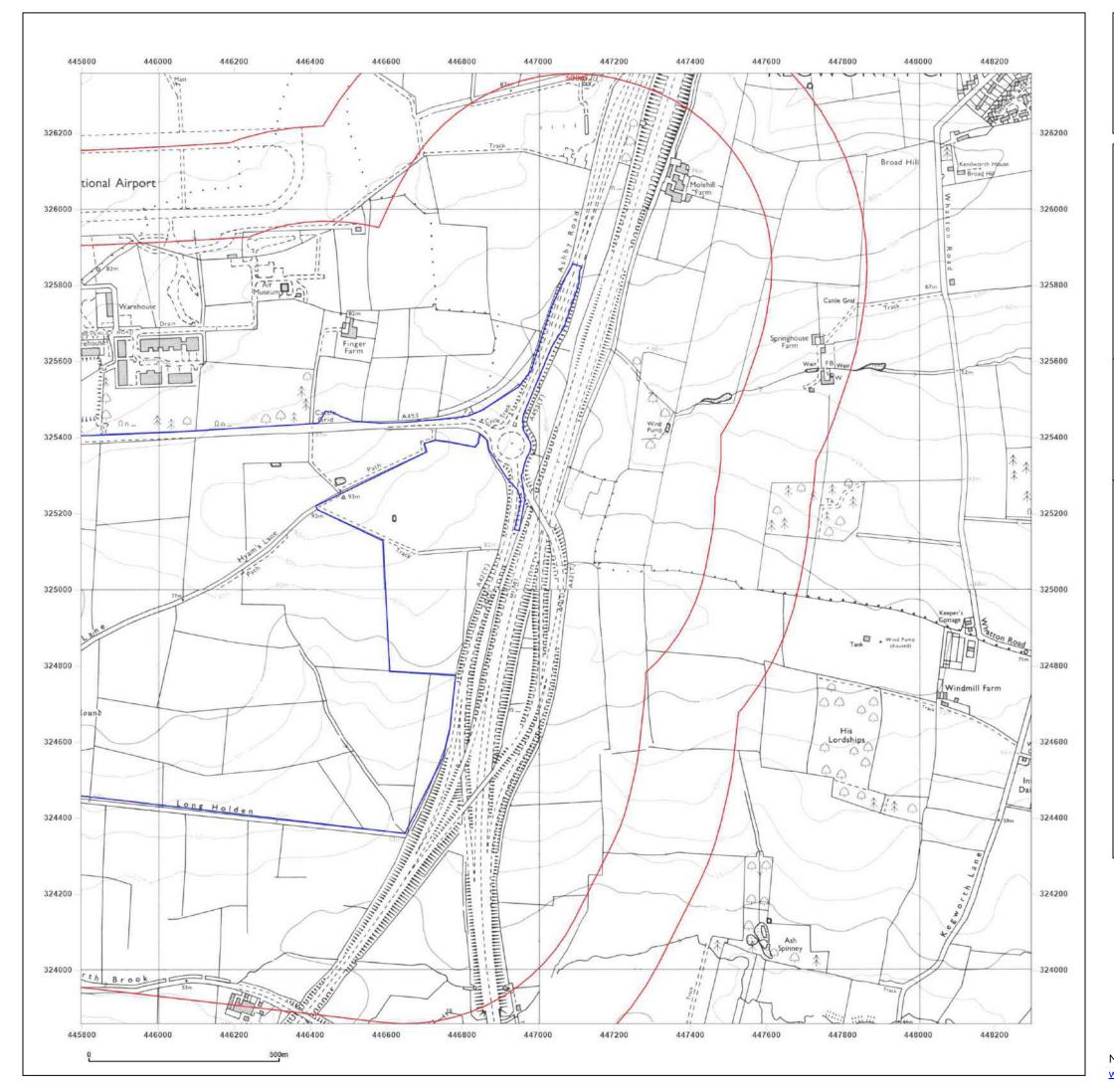




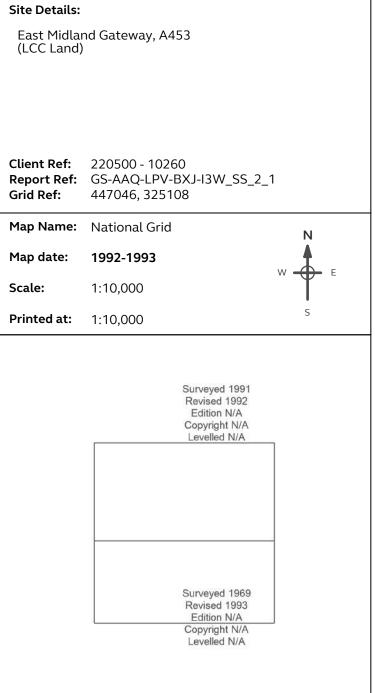
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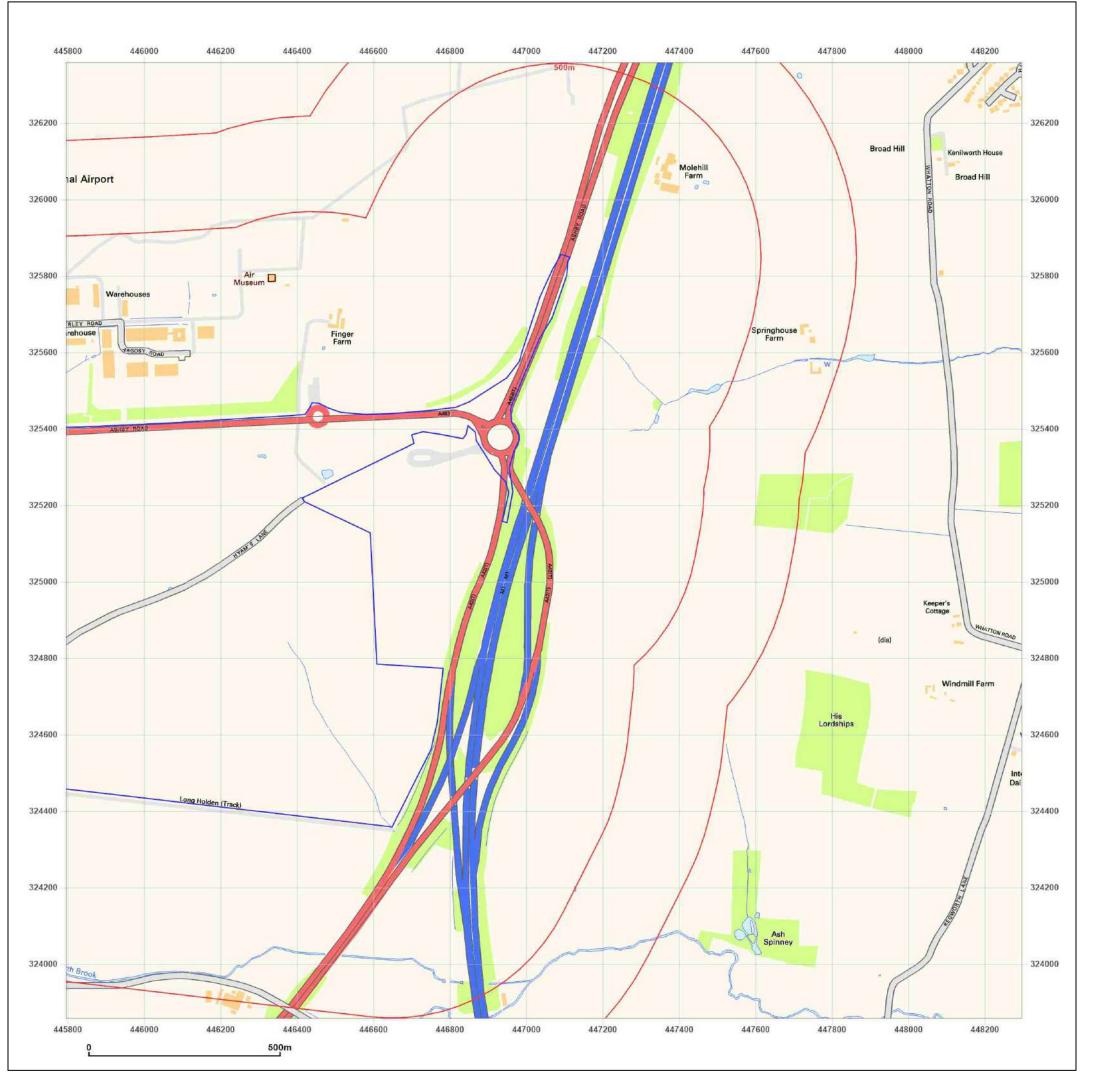




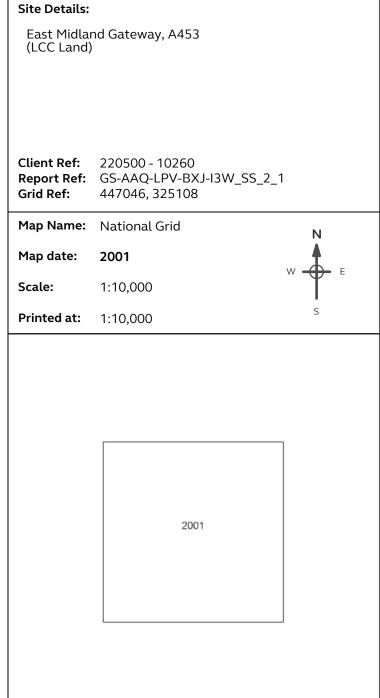
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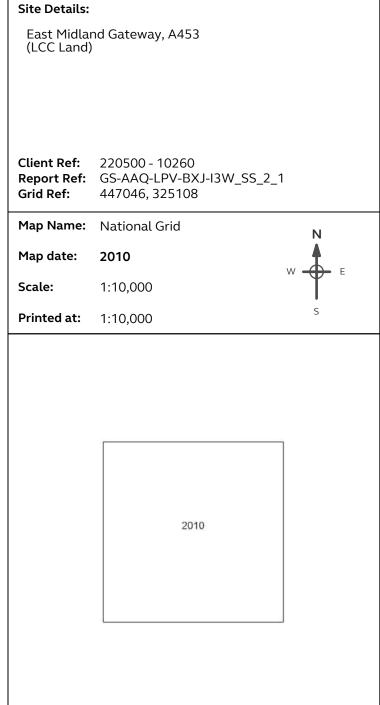
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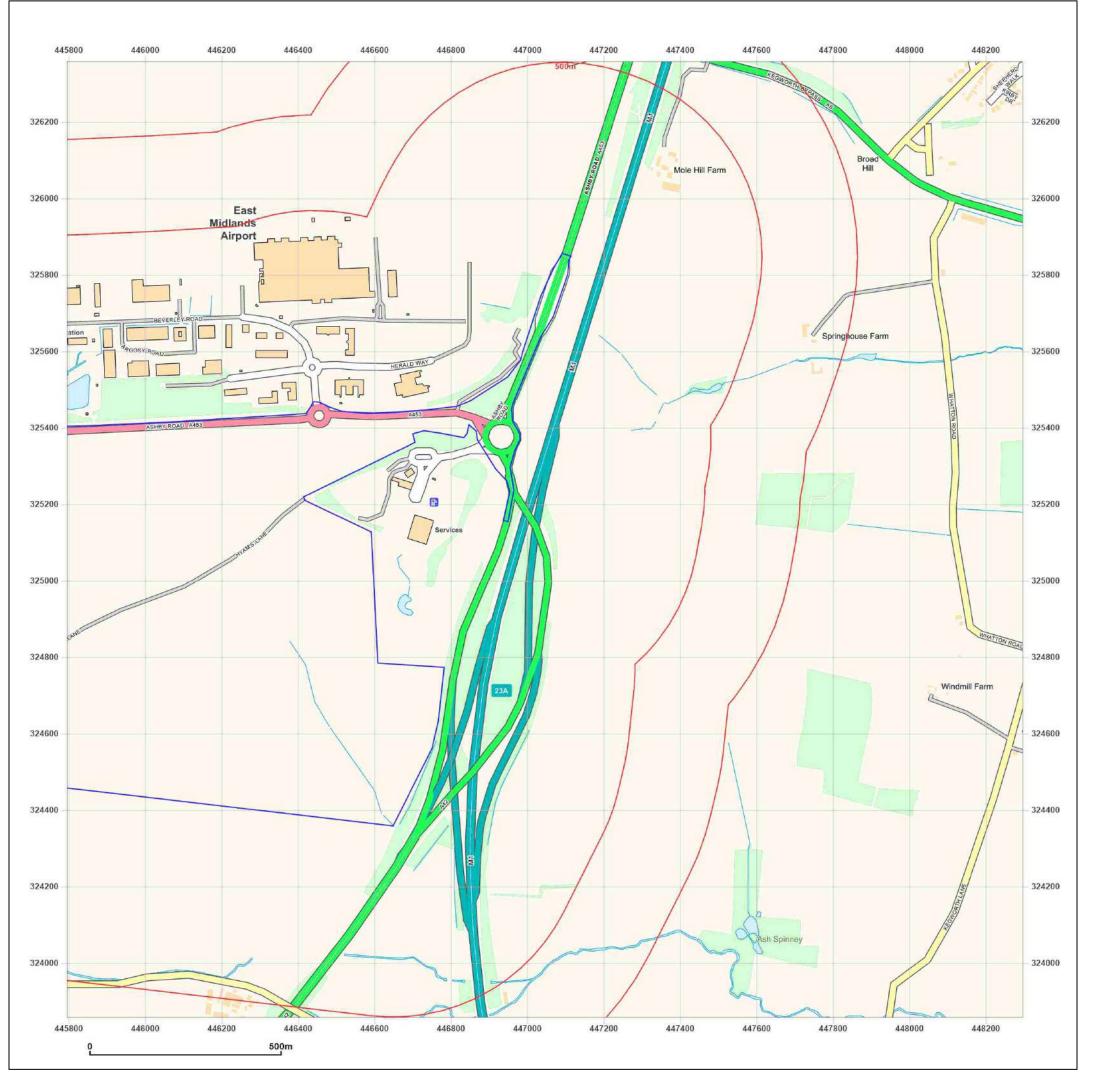




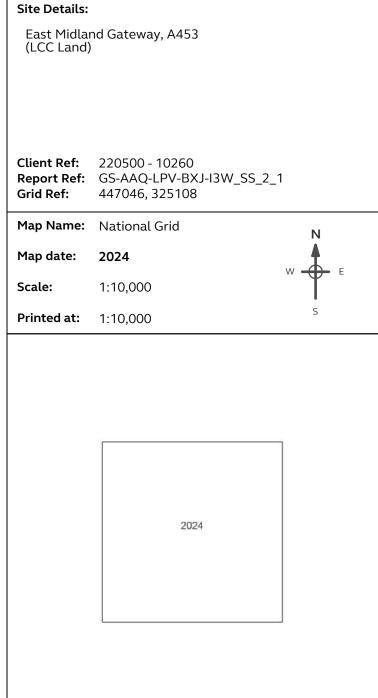
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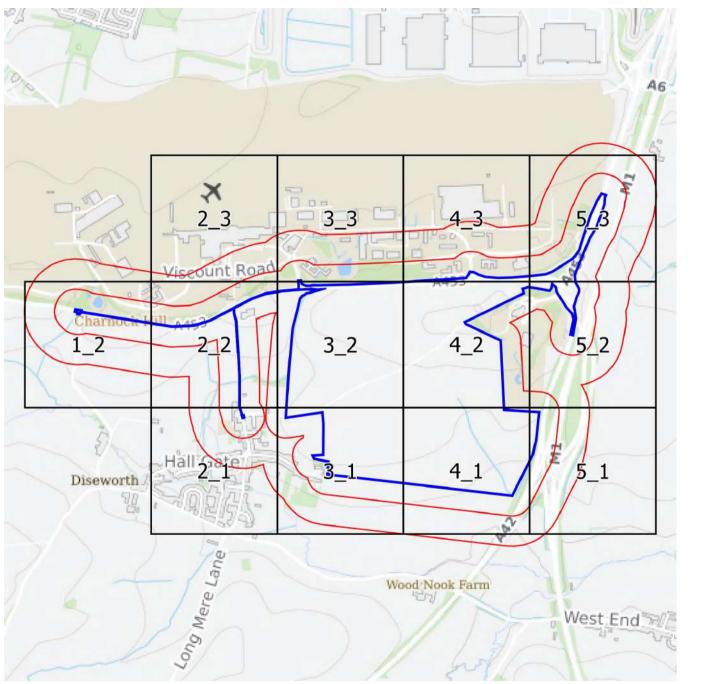




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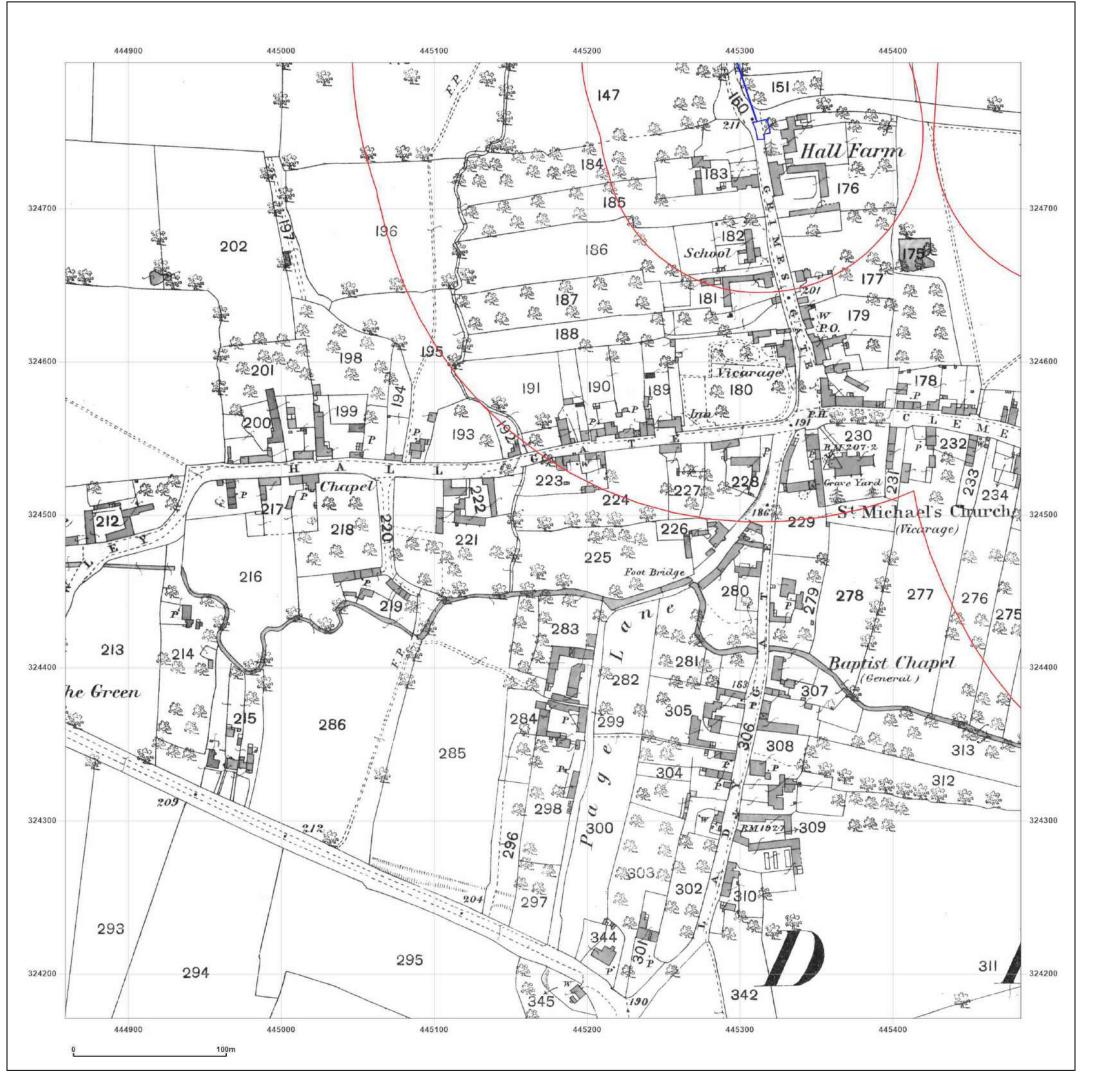
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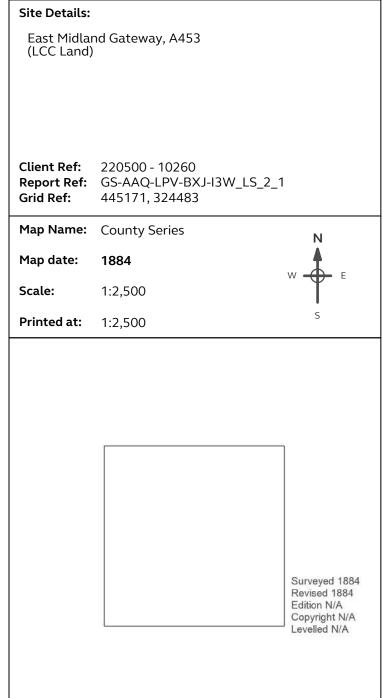


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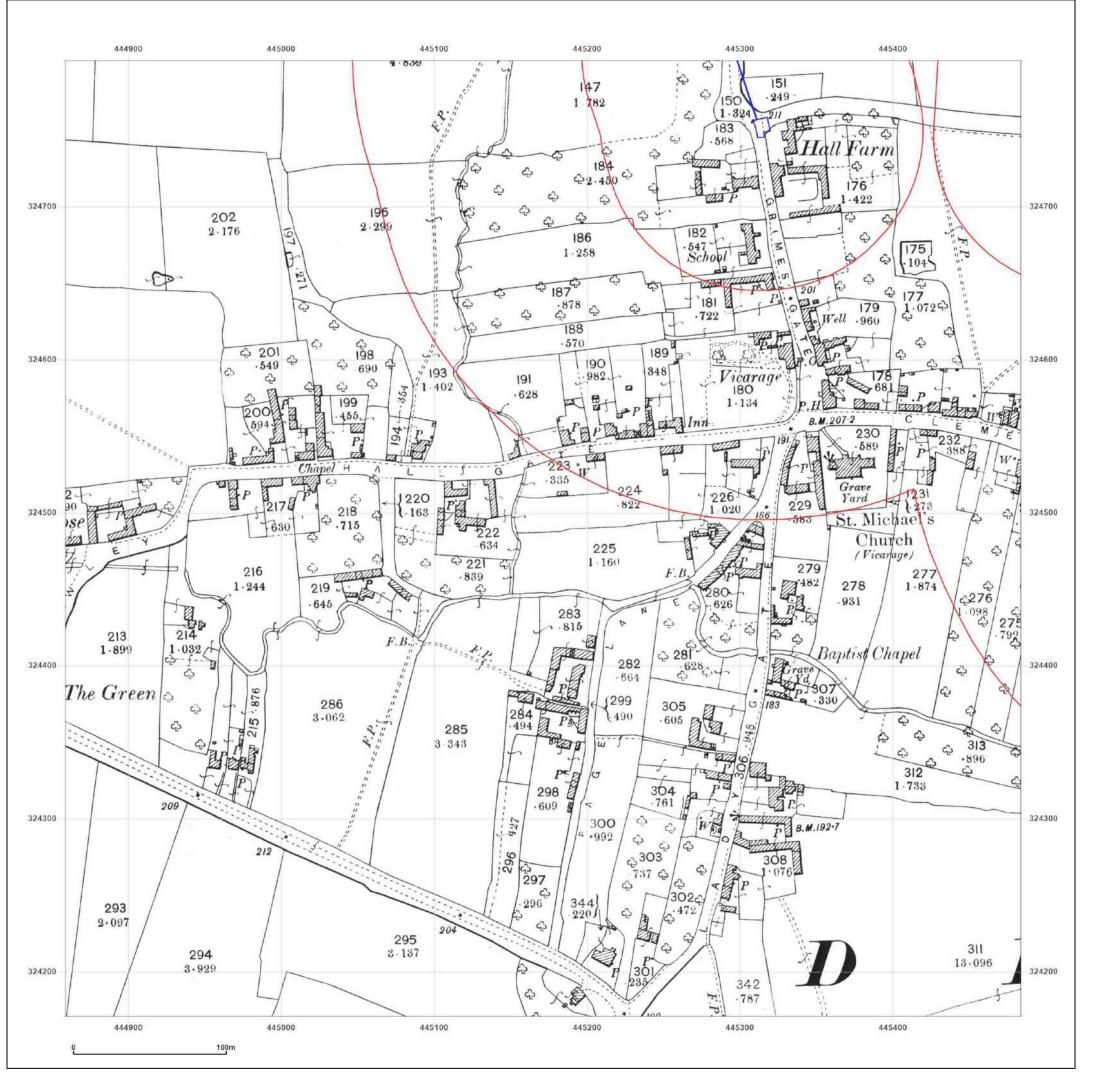




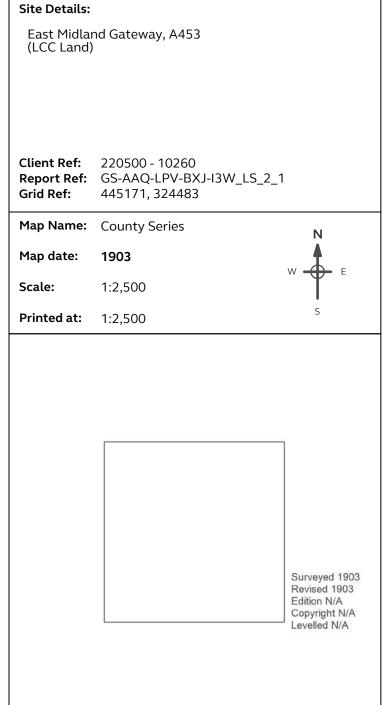
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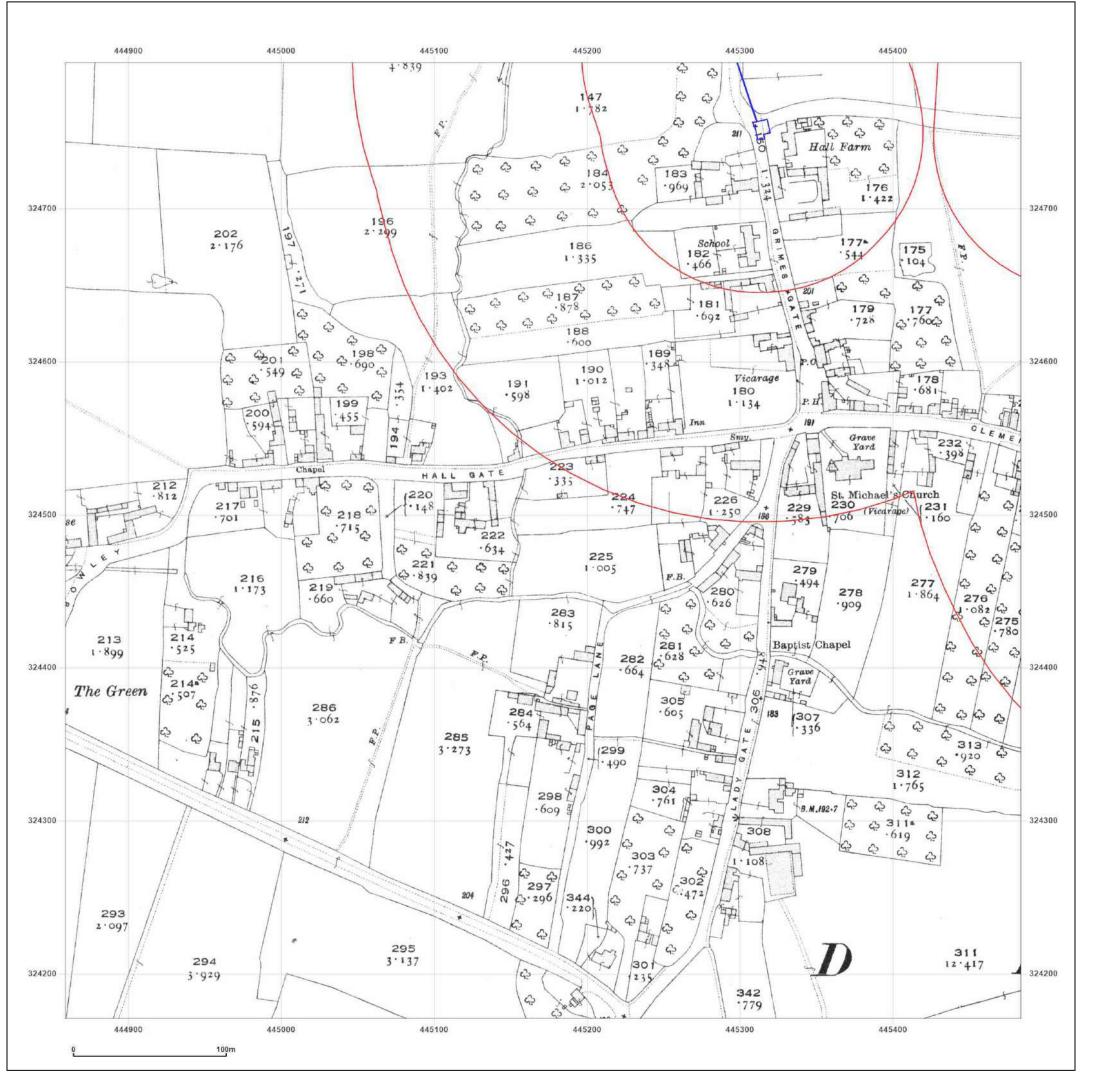




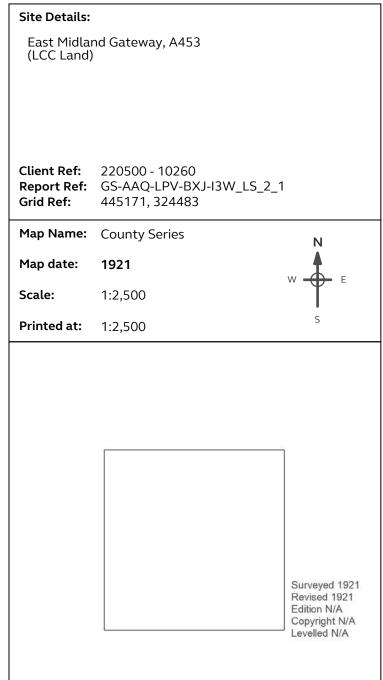
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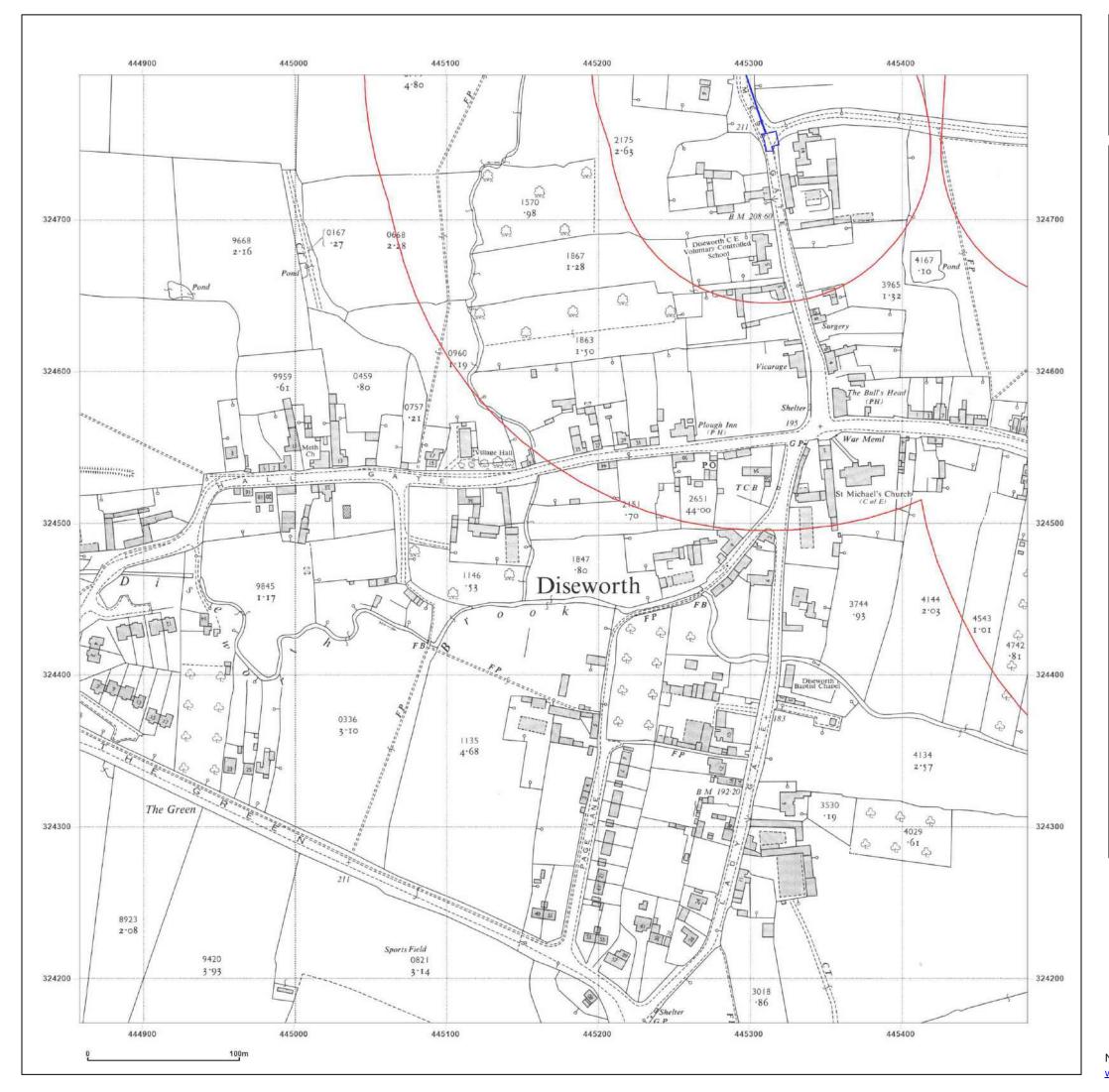




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## Site Details:

East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

Report Ref: GS-AAQ-LPV-BXJ-I3W\_LS\_2\_1

**Grid Ref:** 445171, 324483

Map Name: National Grid

Map date: 1963

**Scale:** 1:2,500

**Printed at:** 1:2,500

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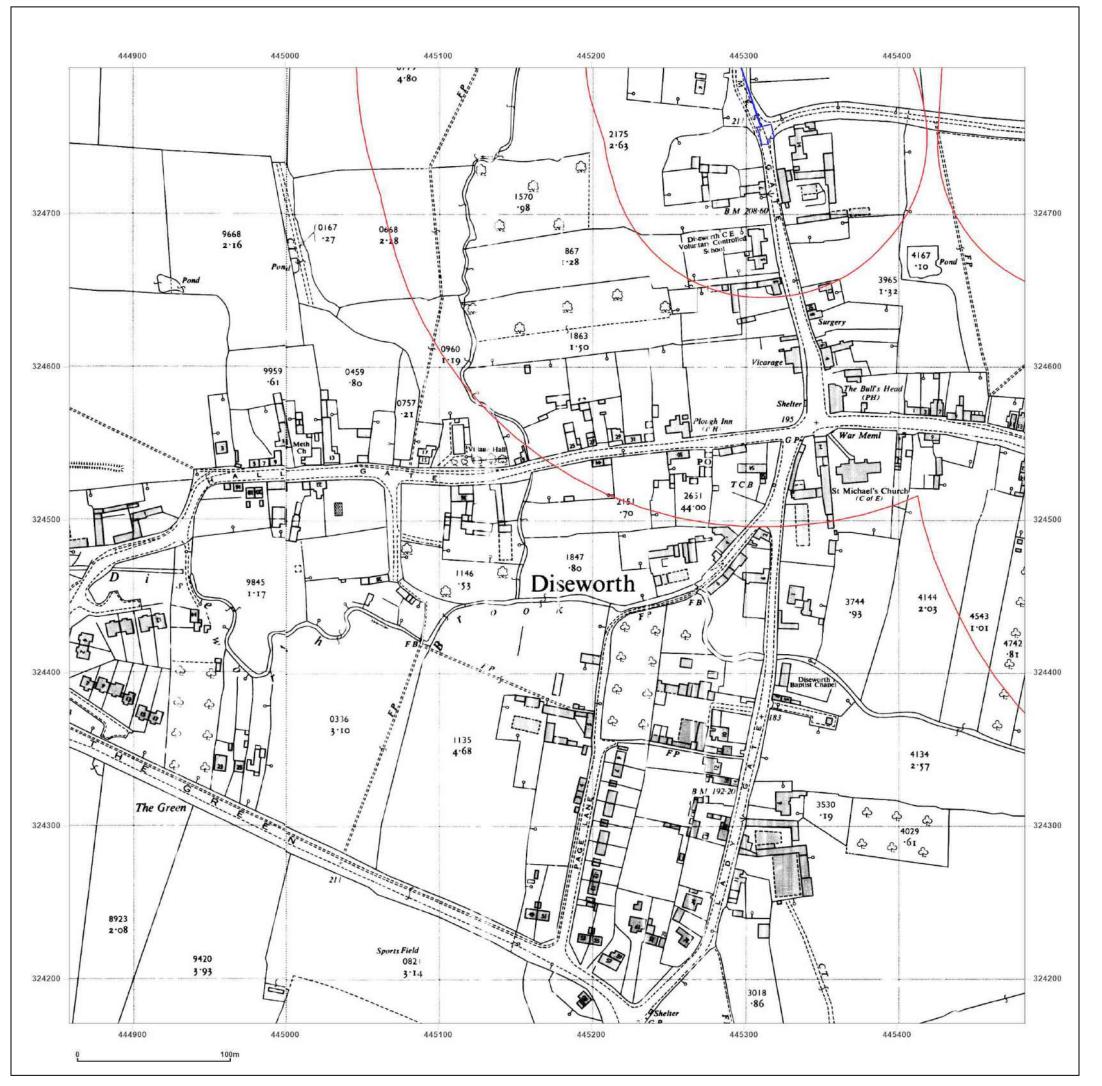


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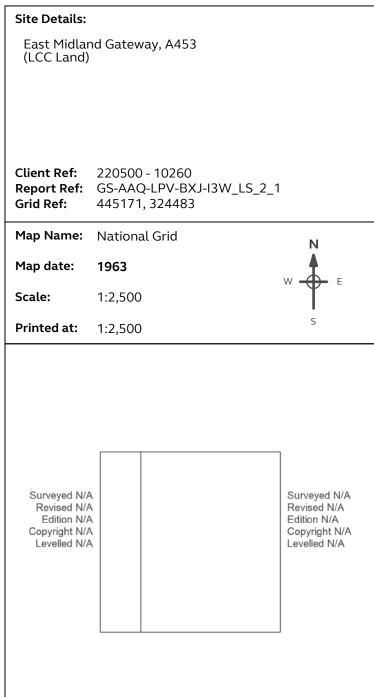
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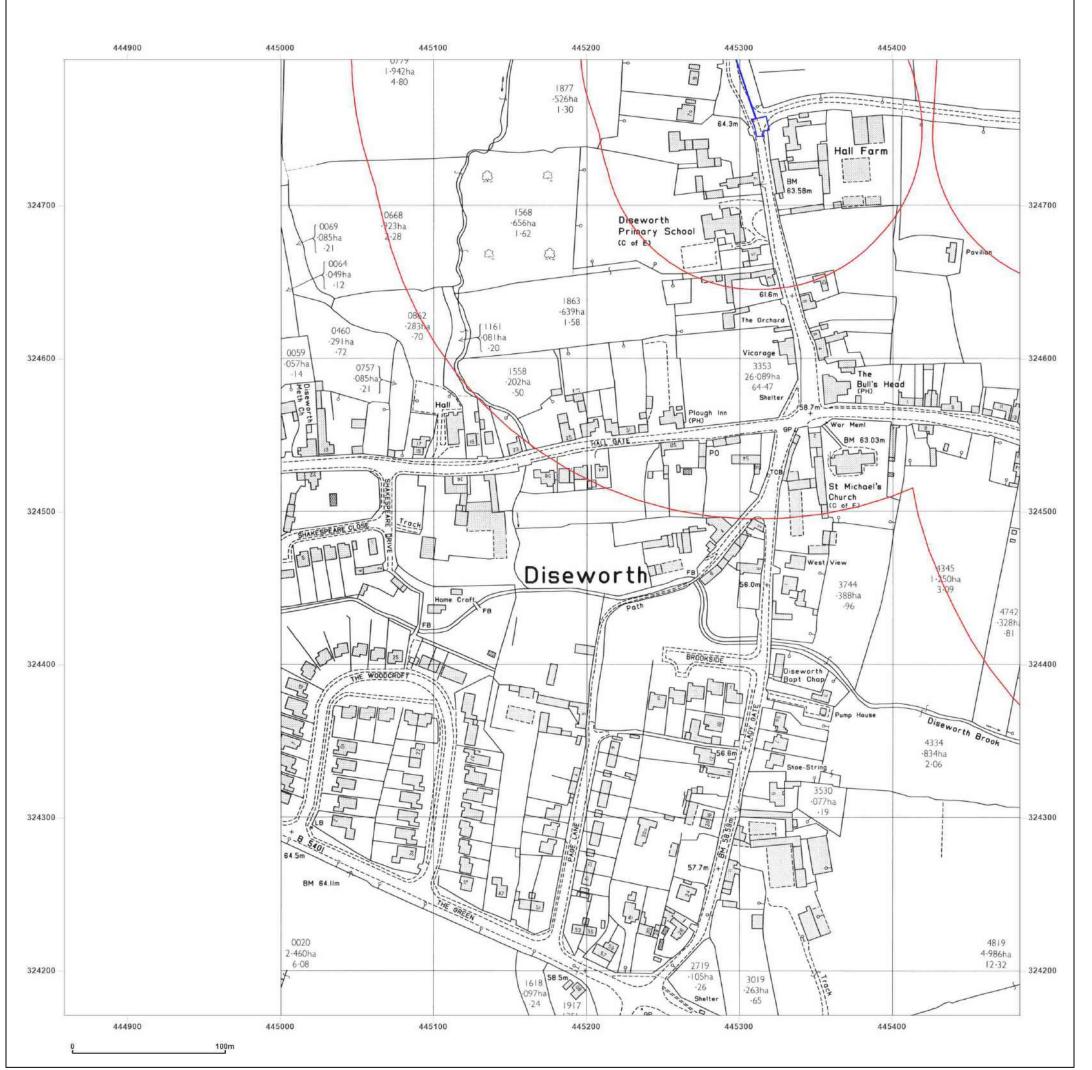




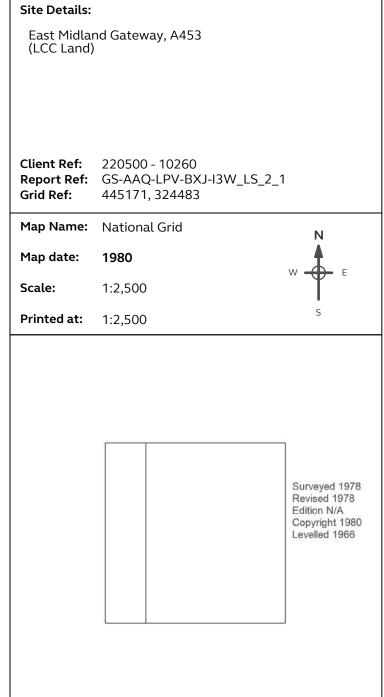
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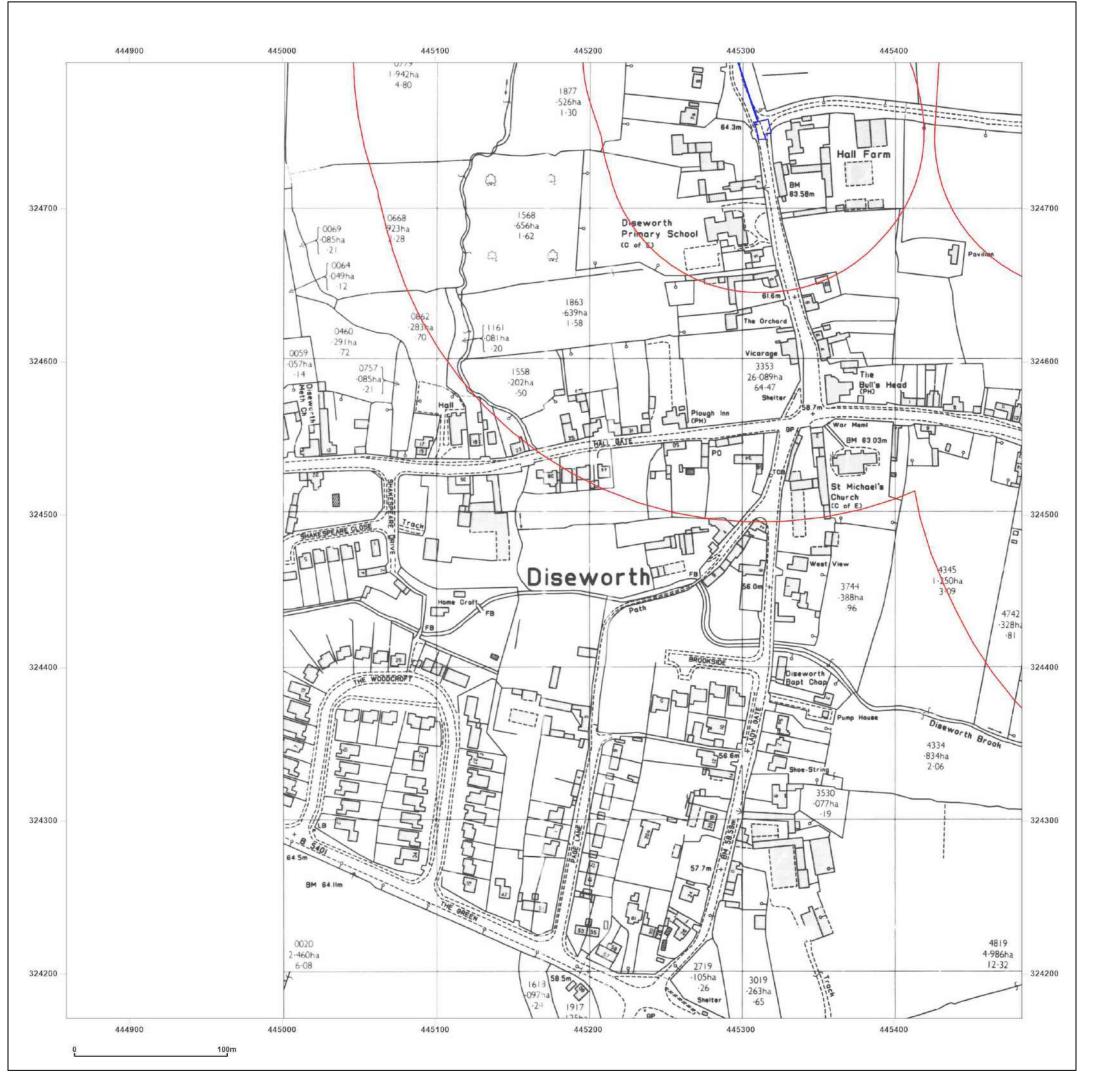




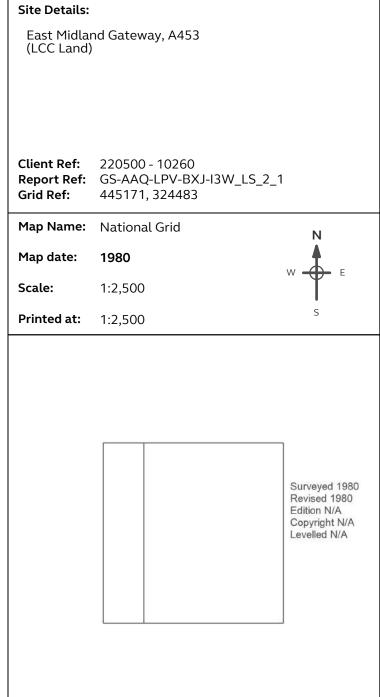
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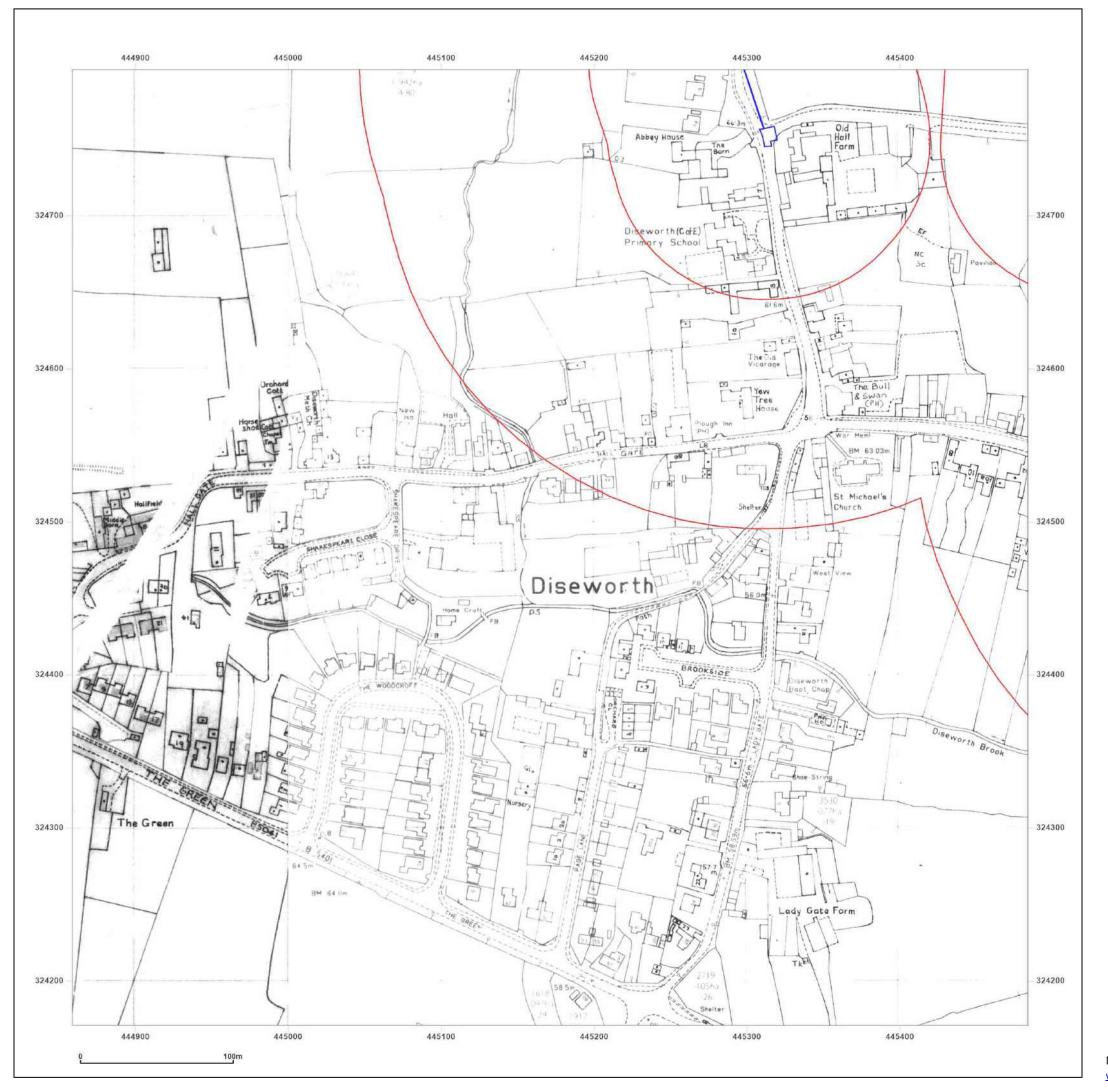




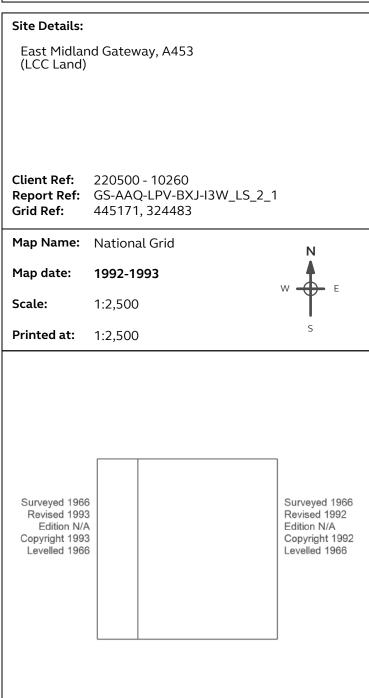
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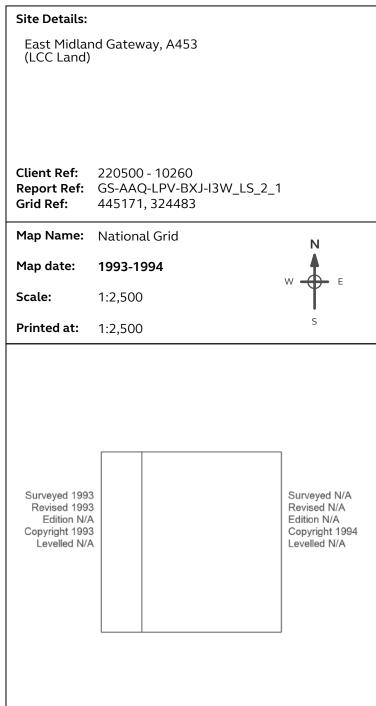
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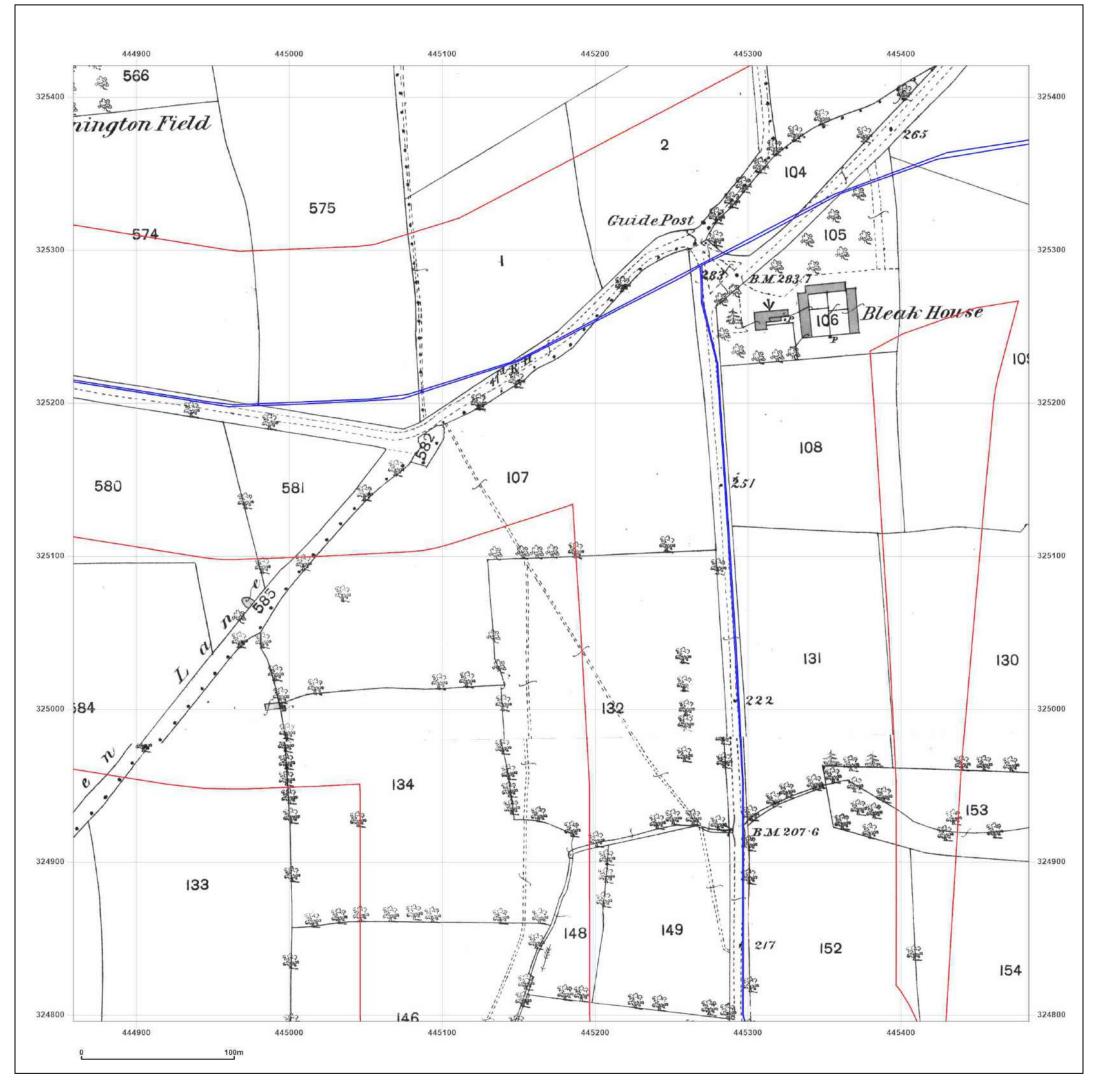




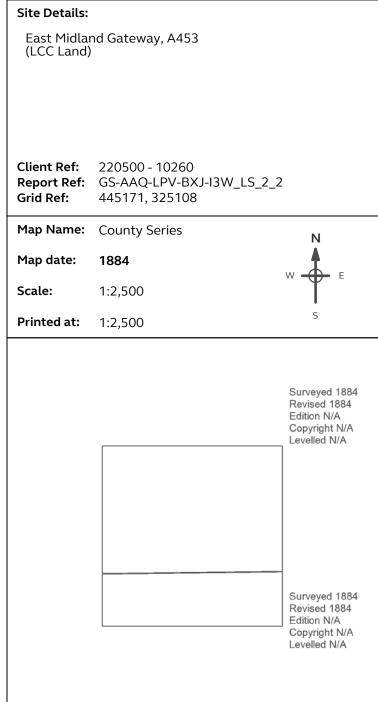
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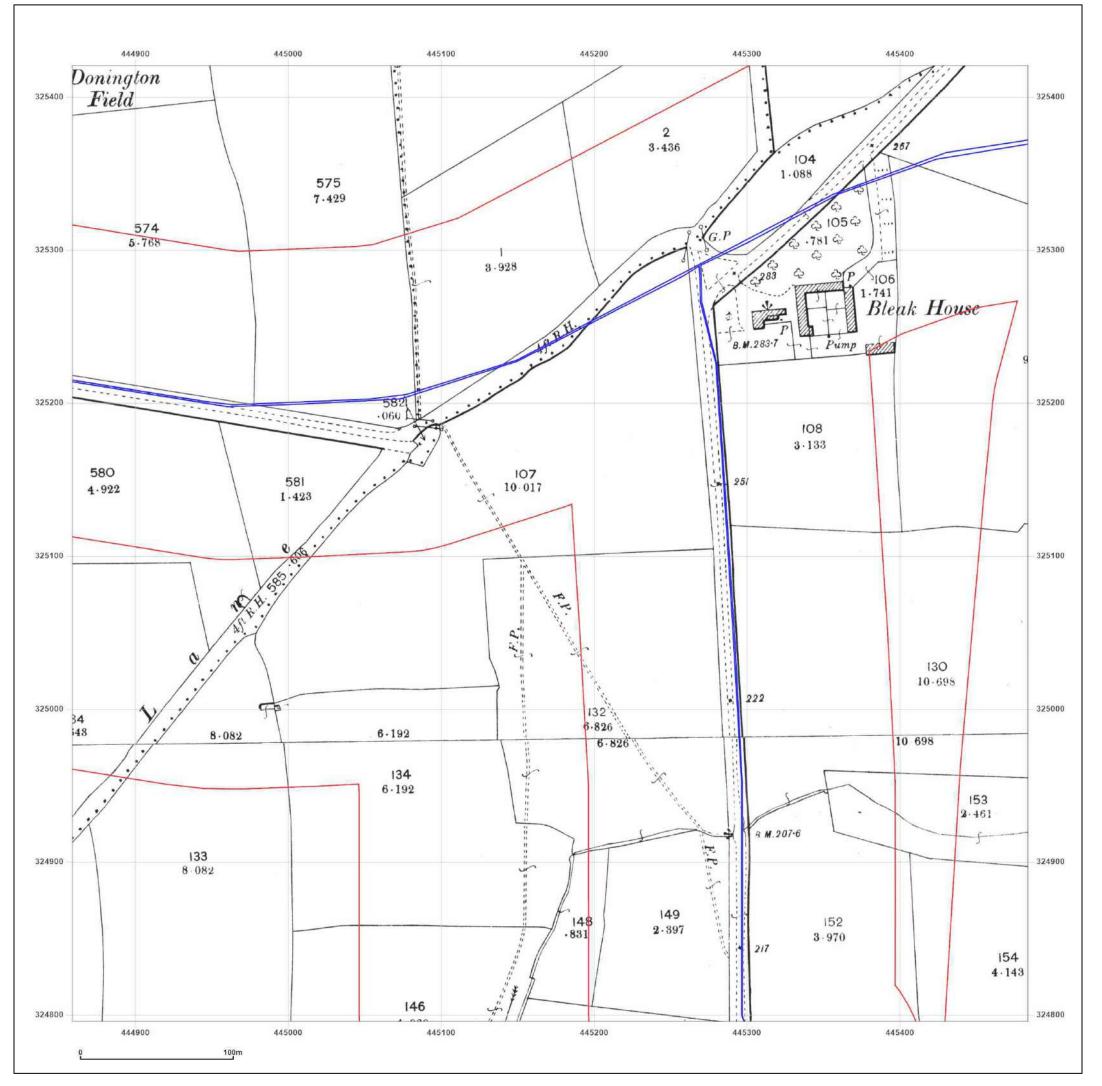




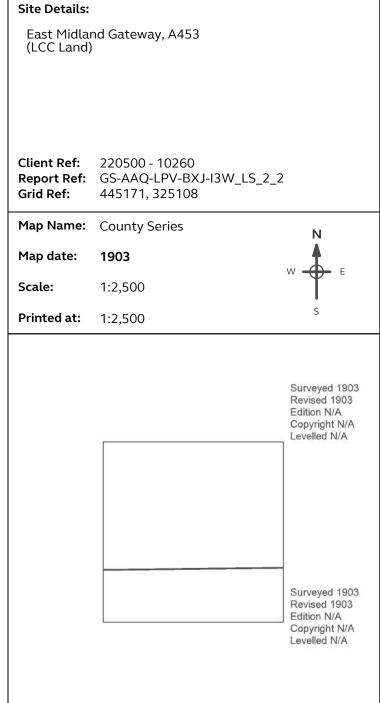
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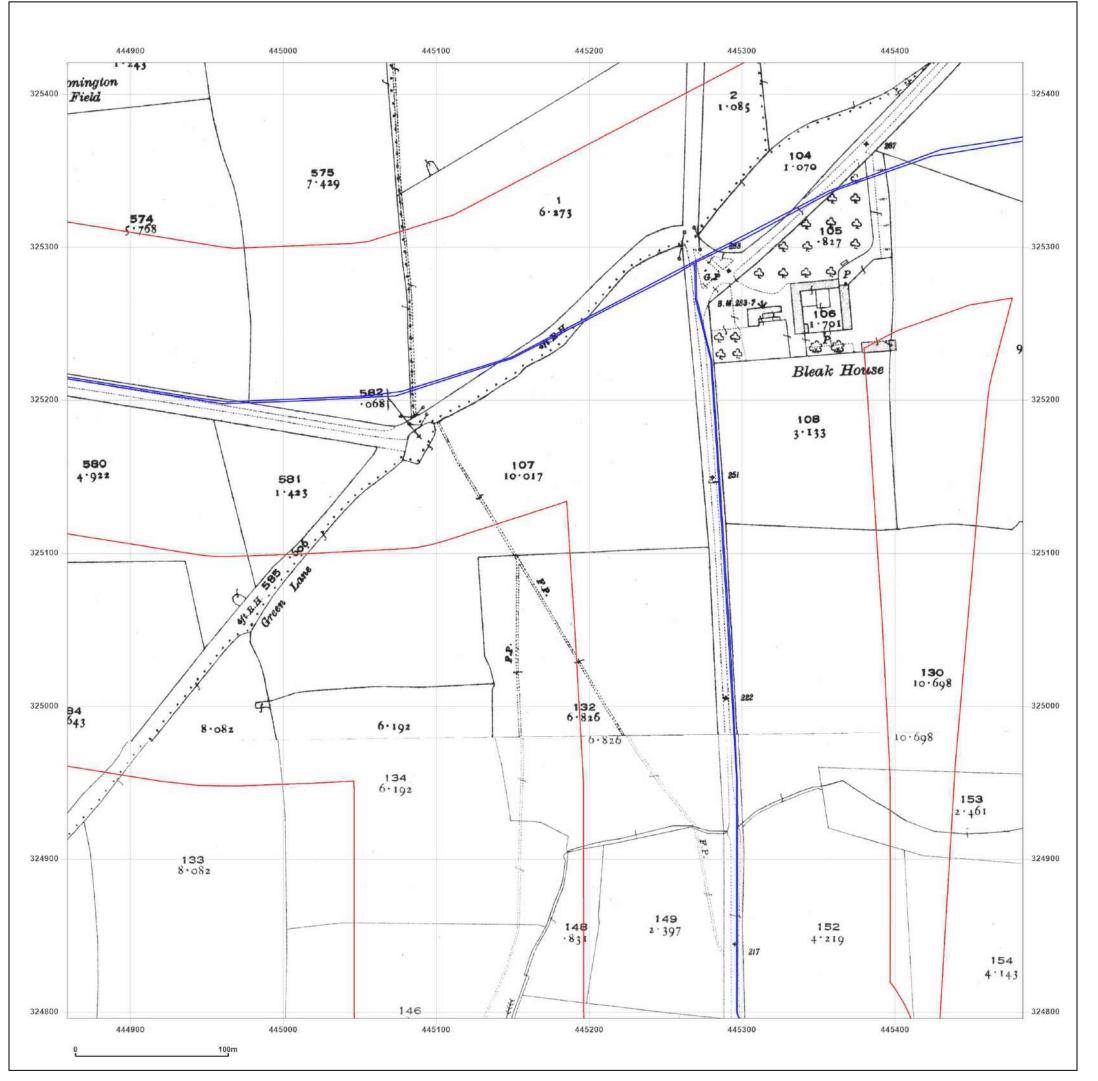




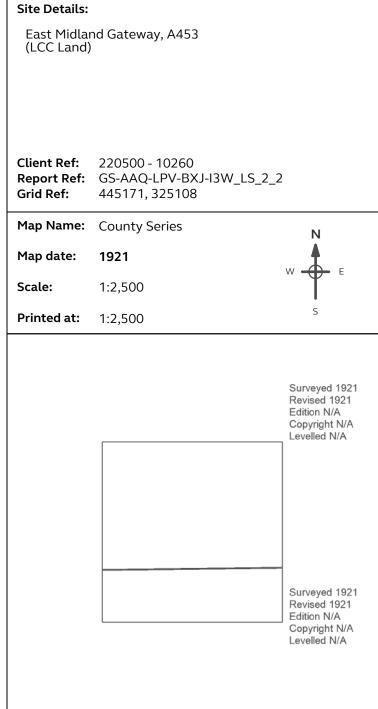
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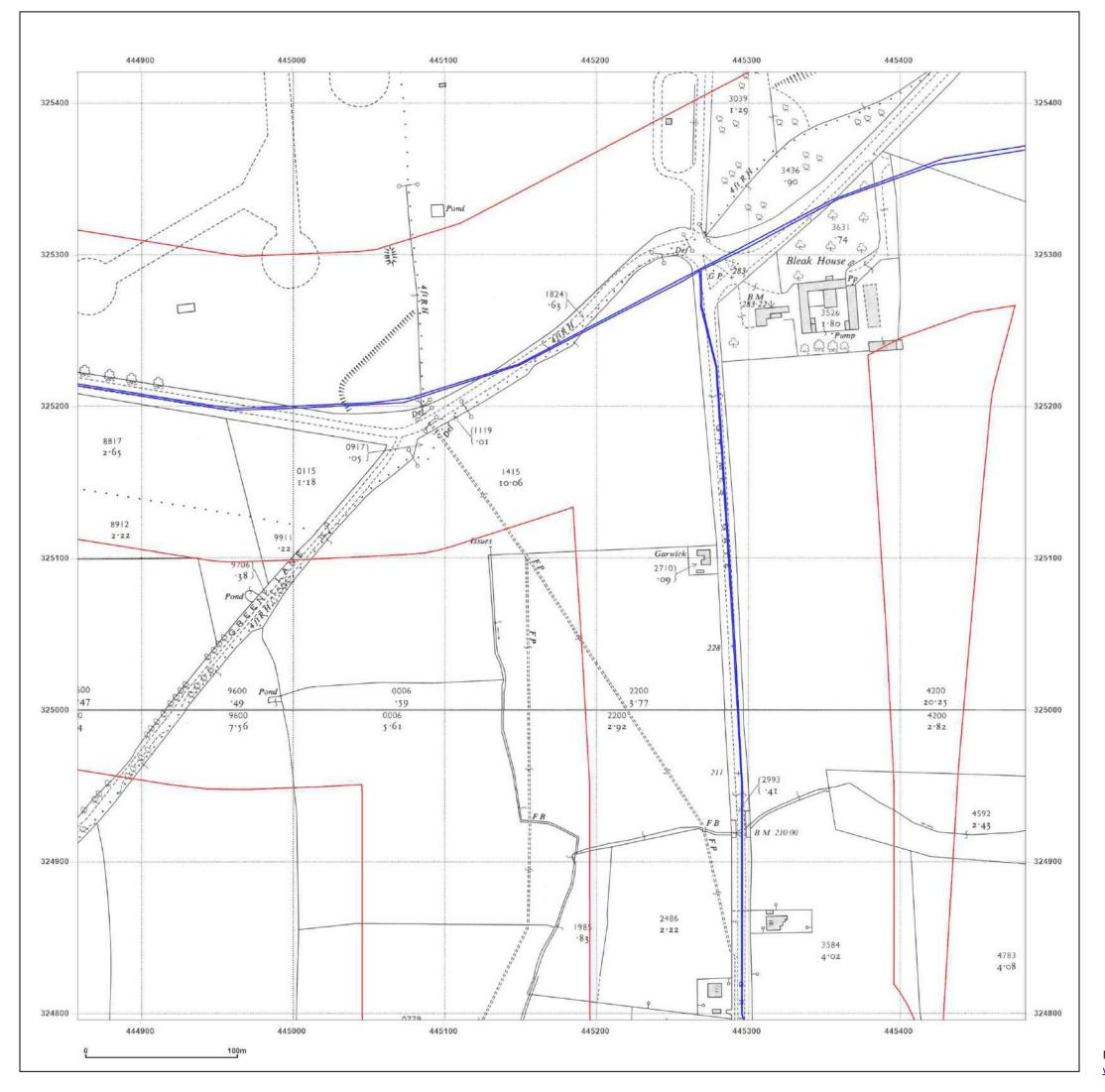




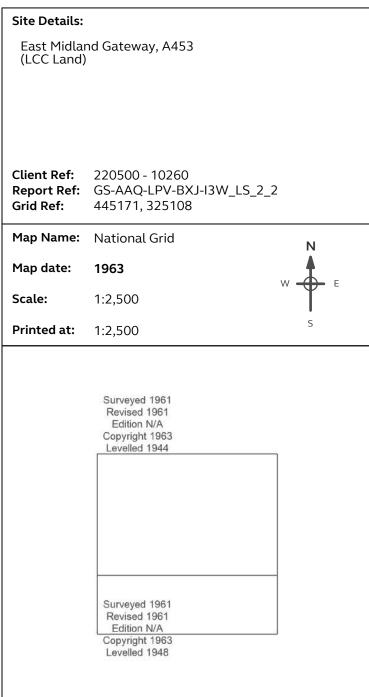
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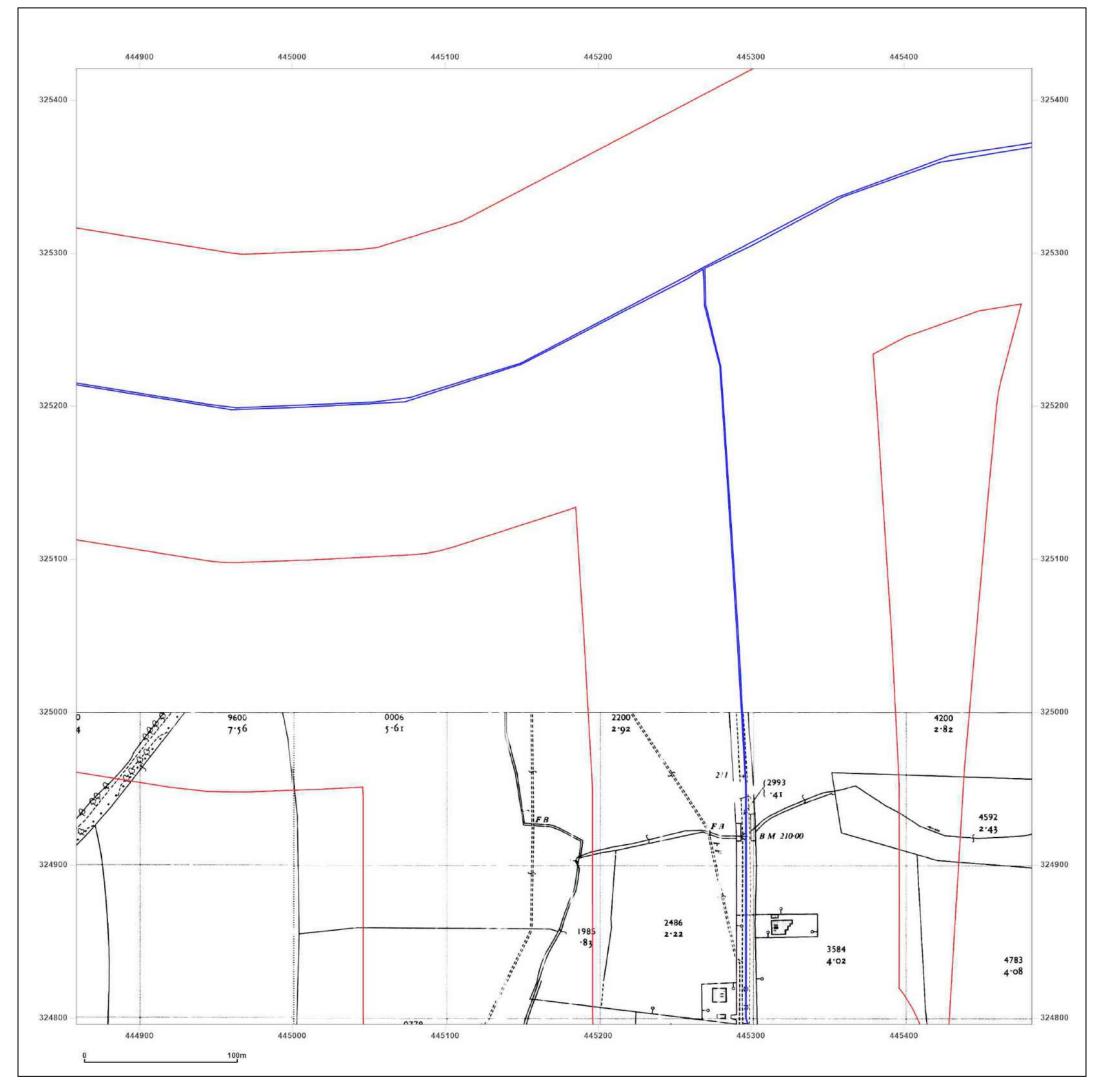




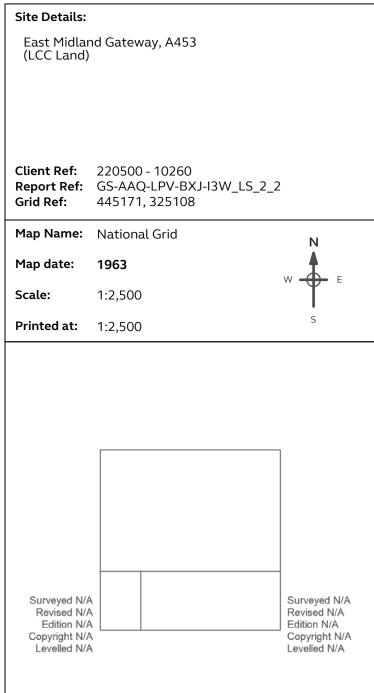
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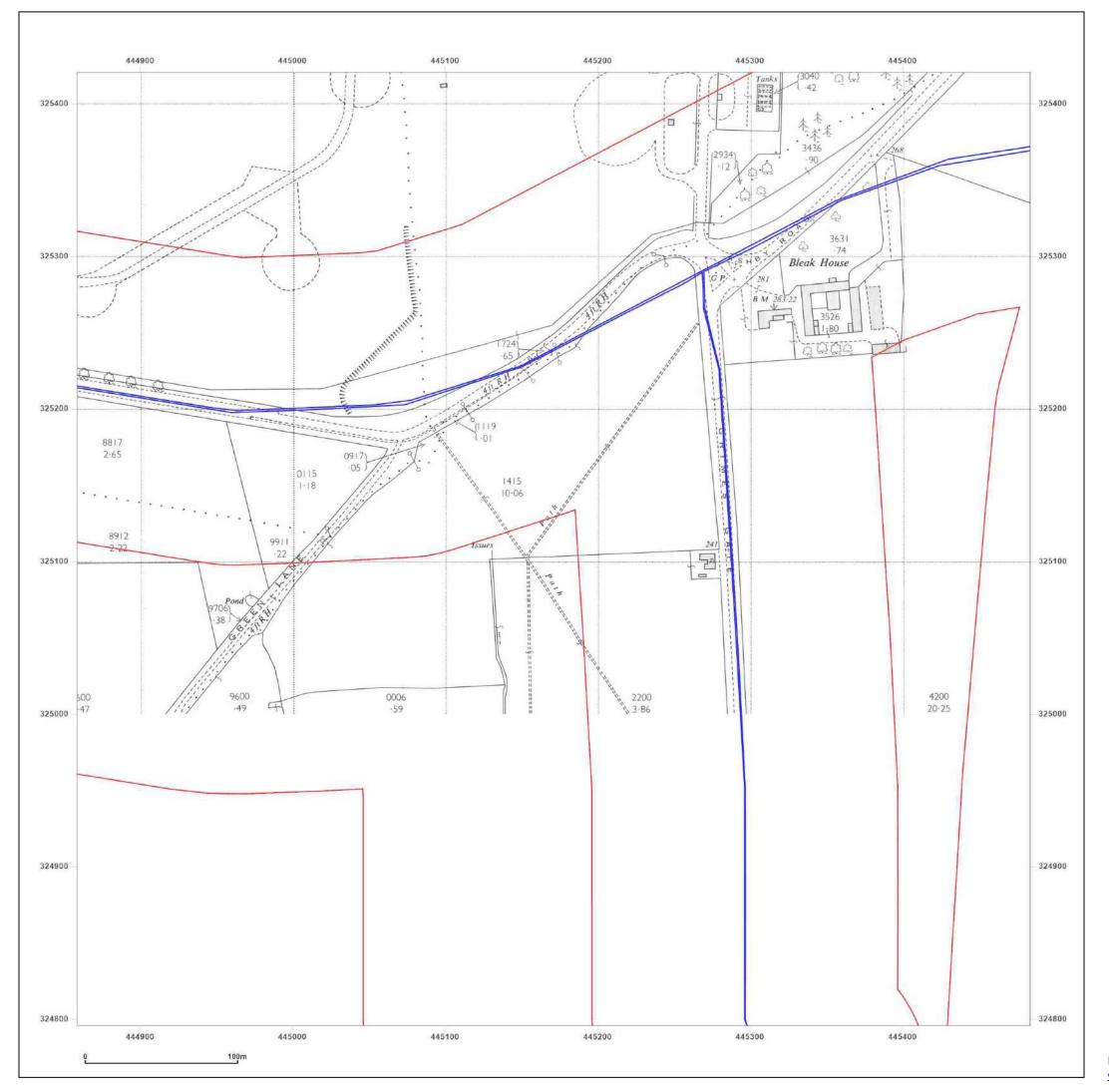




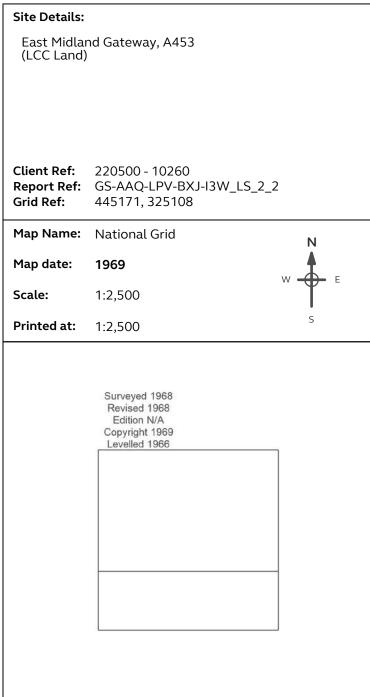
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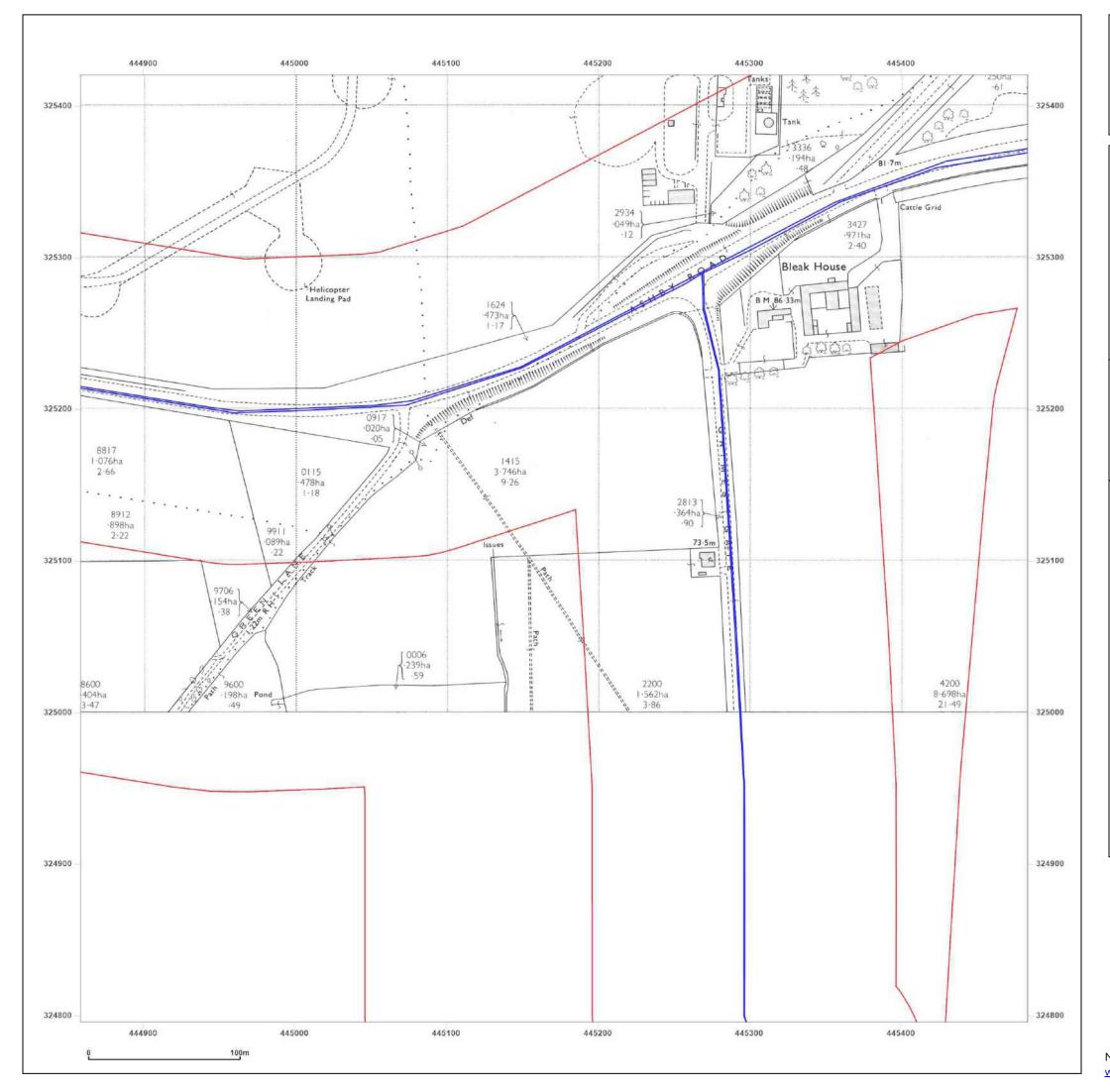




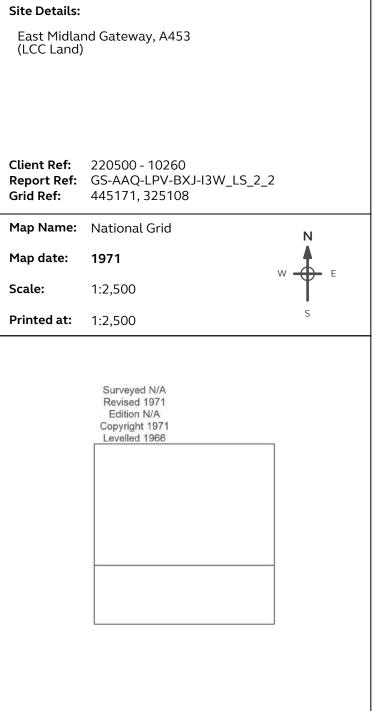
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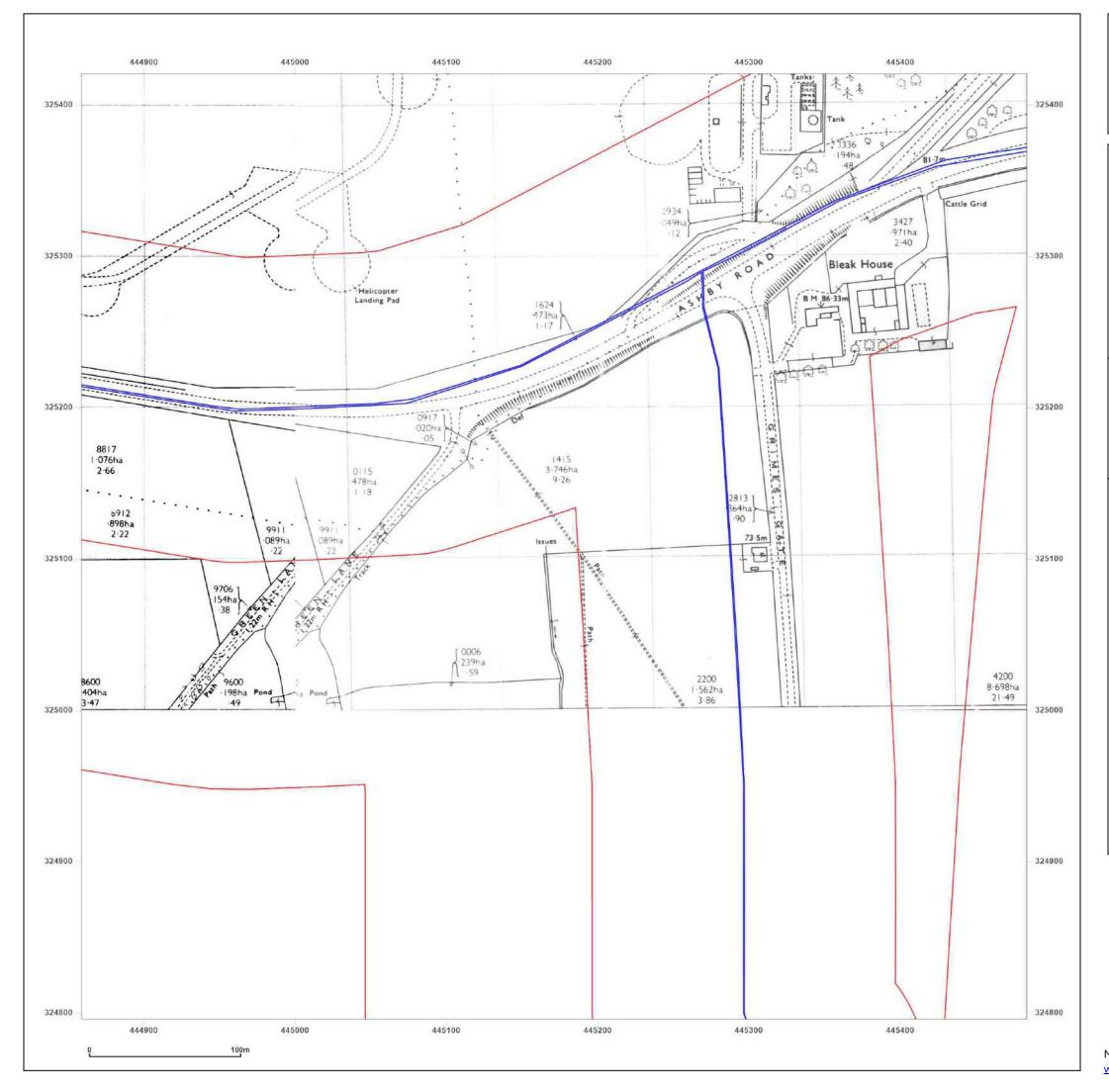




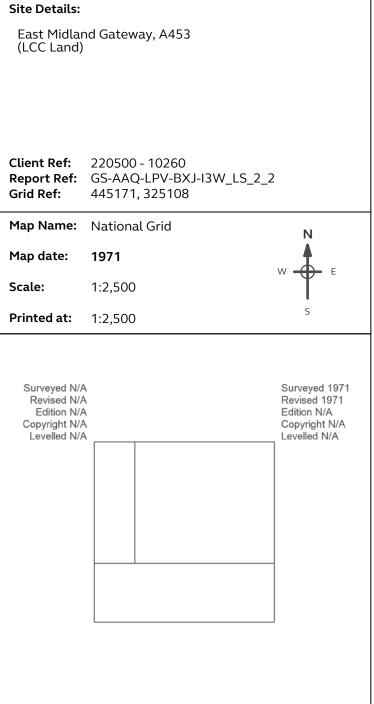
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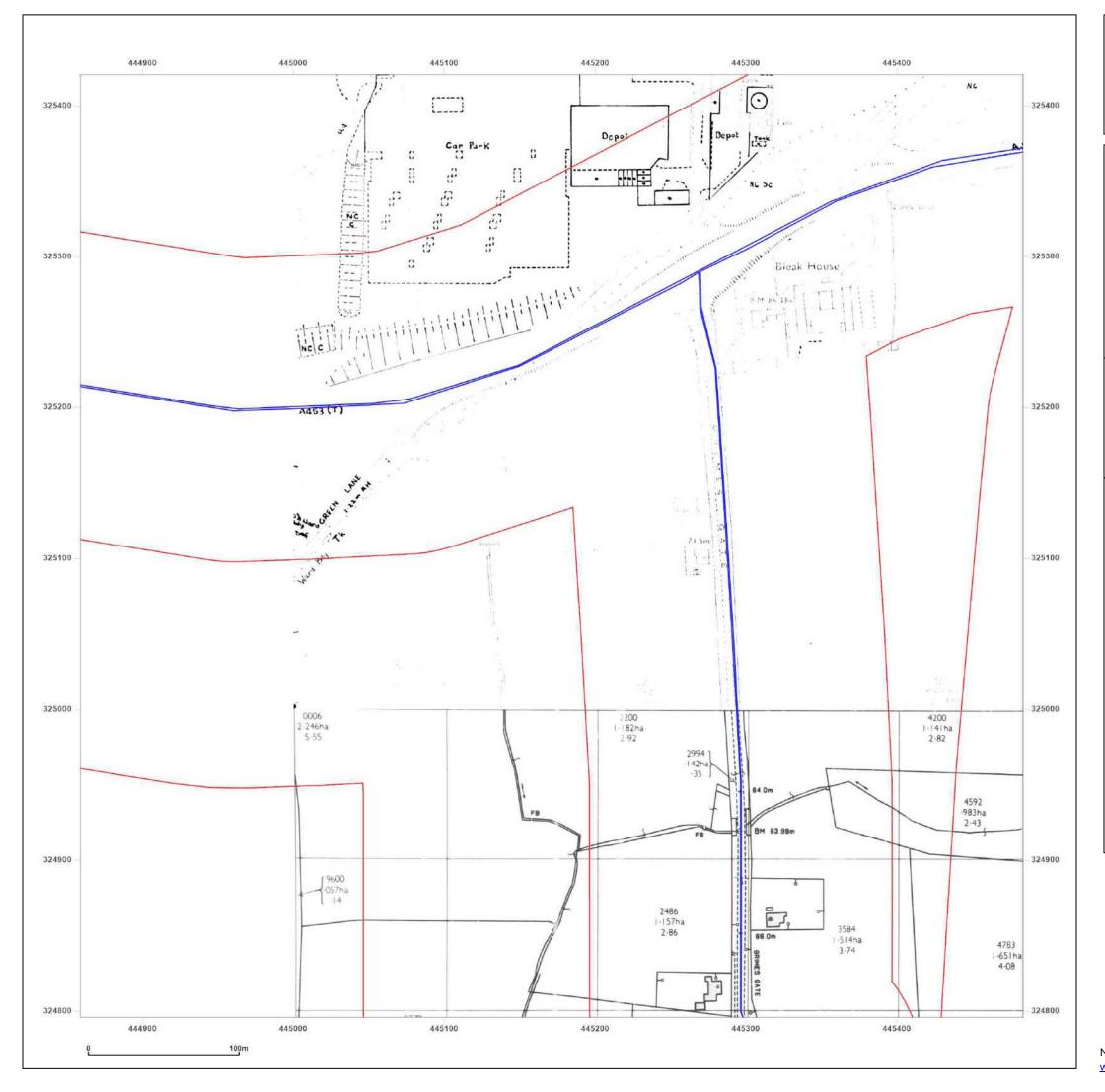




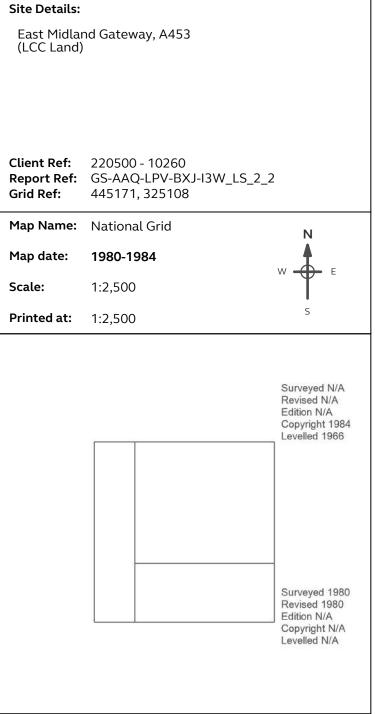
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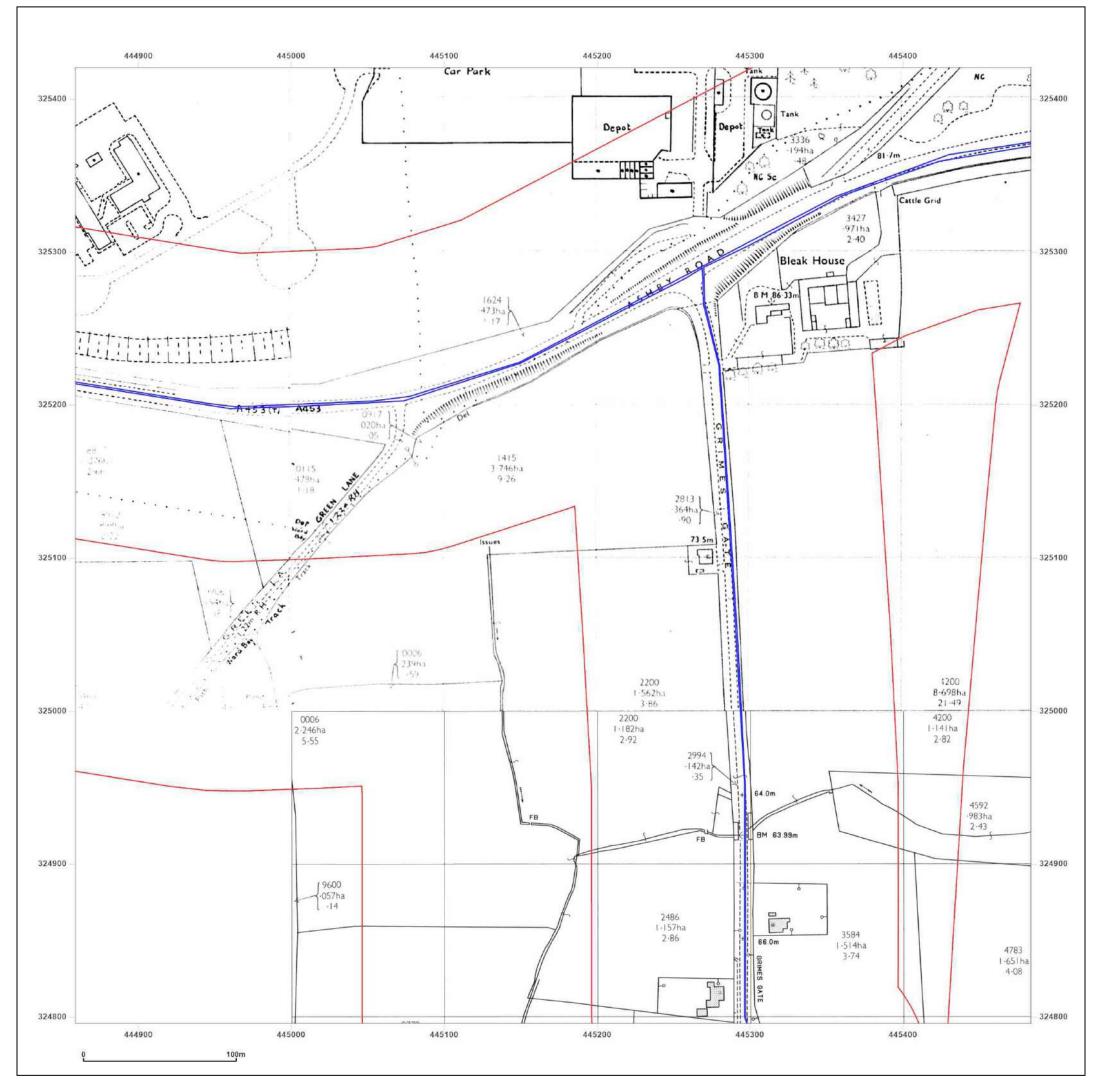




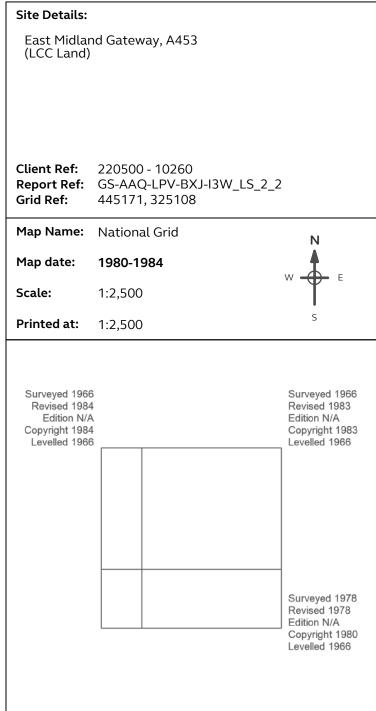
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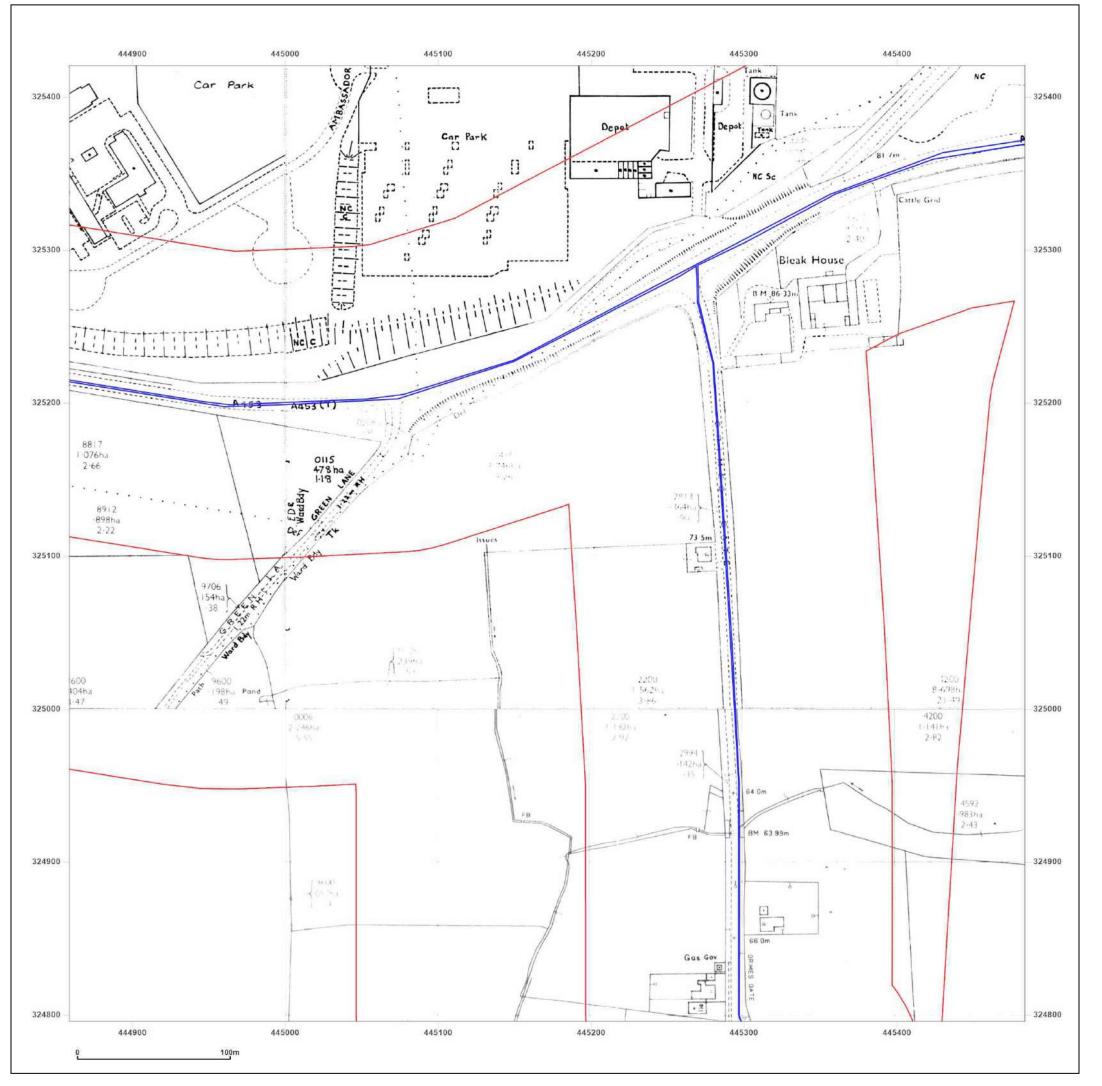




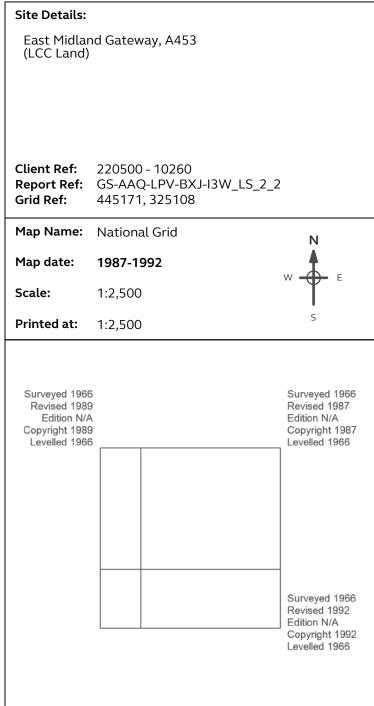
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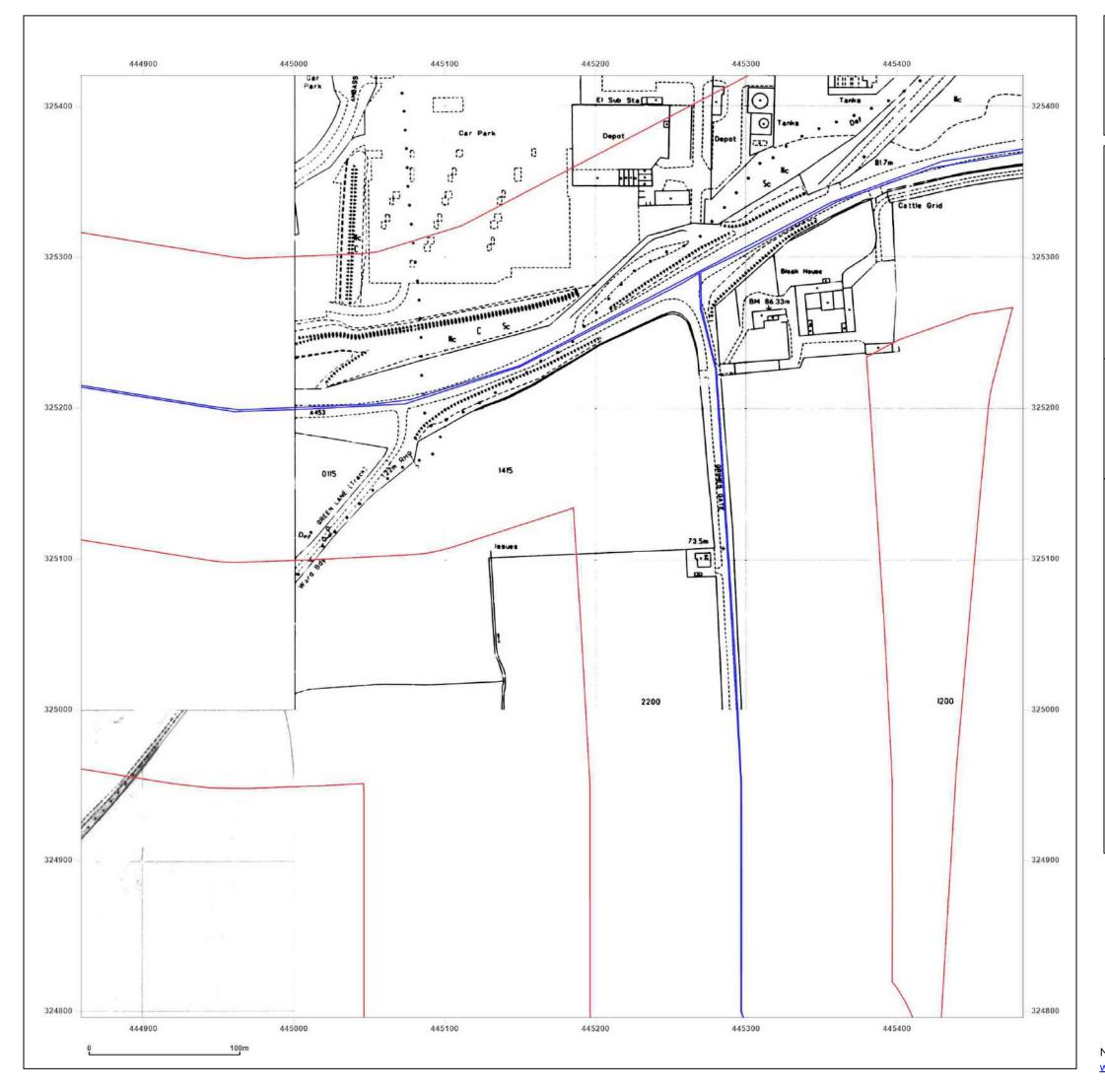




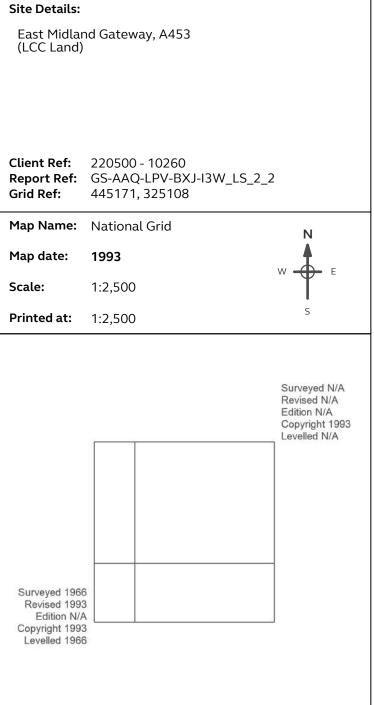
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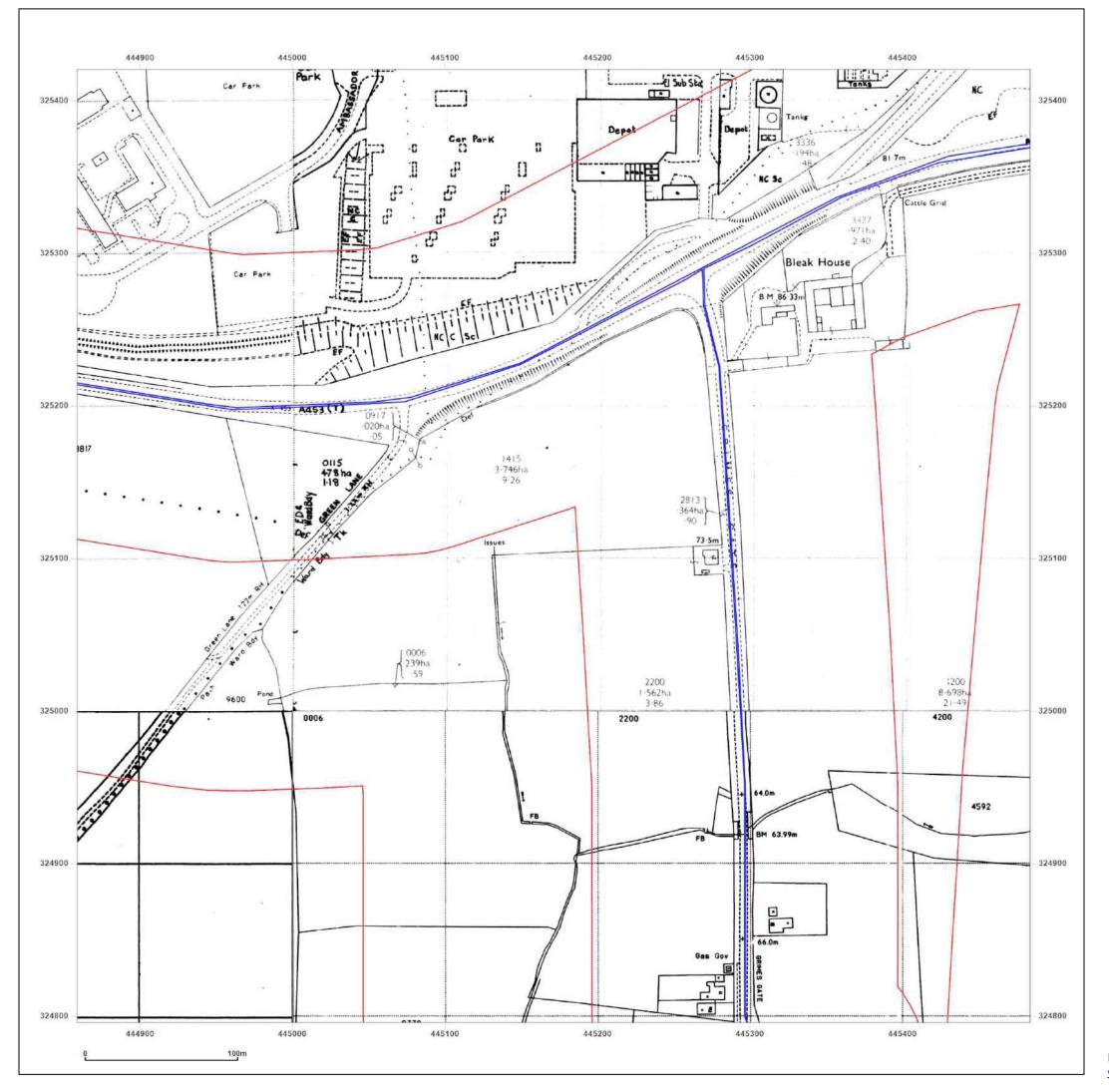




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Map legend available at:





## Site Details: East Midland Gateway, A453 (LCC Land) **Client Ref:** 220500 - 10260 **Report Ref:** GS-AAQ-LPV-BXJ-I3W\_LS\_2\_2 445171, 325108 **Grid Ref:** Map Name: National Grid 1991-1994 Map date: 1:2,500 Scale: **Printed at:** 1:2,500 Surveyed N/A Surveyed 1991 Revised N/A Revised 1991 Edition N/A Edition N/A Copyright 1991 Copyright 1993 Levelled N/A Levelled N/A Surveyed N/A Surveyed 1993 Revised 1993 Revised N/A Edition N/A Edition N/A Copyright 1993 Copyright 1994 Levelled N/A Levelled N/A

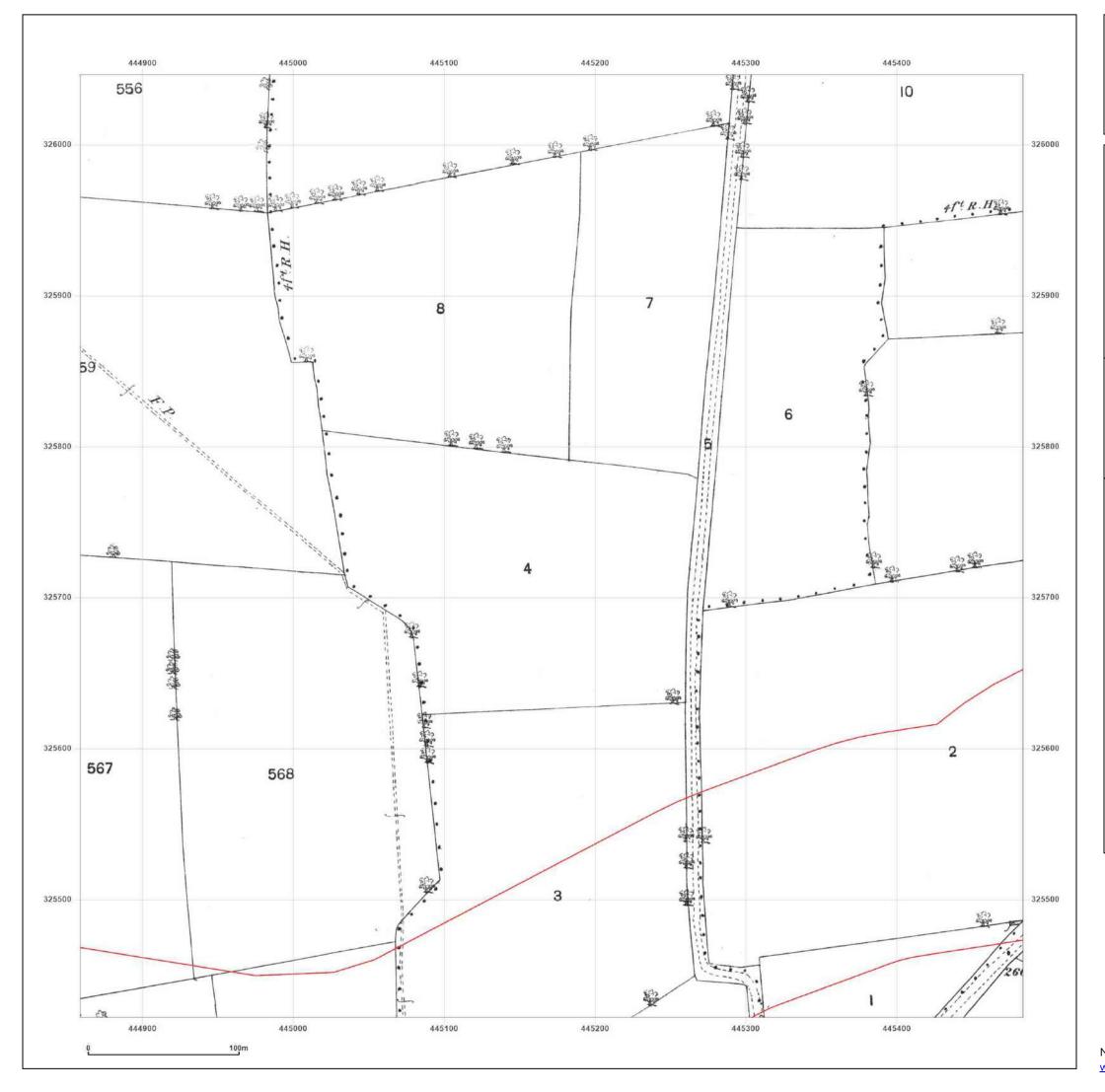


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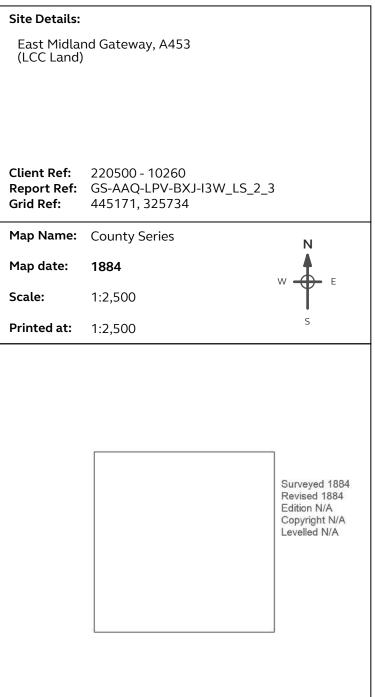
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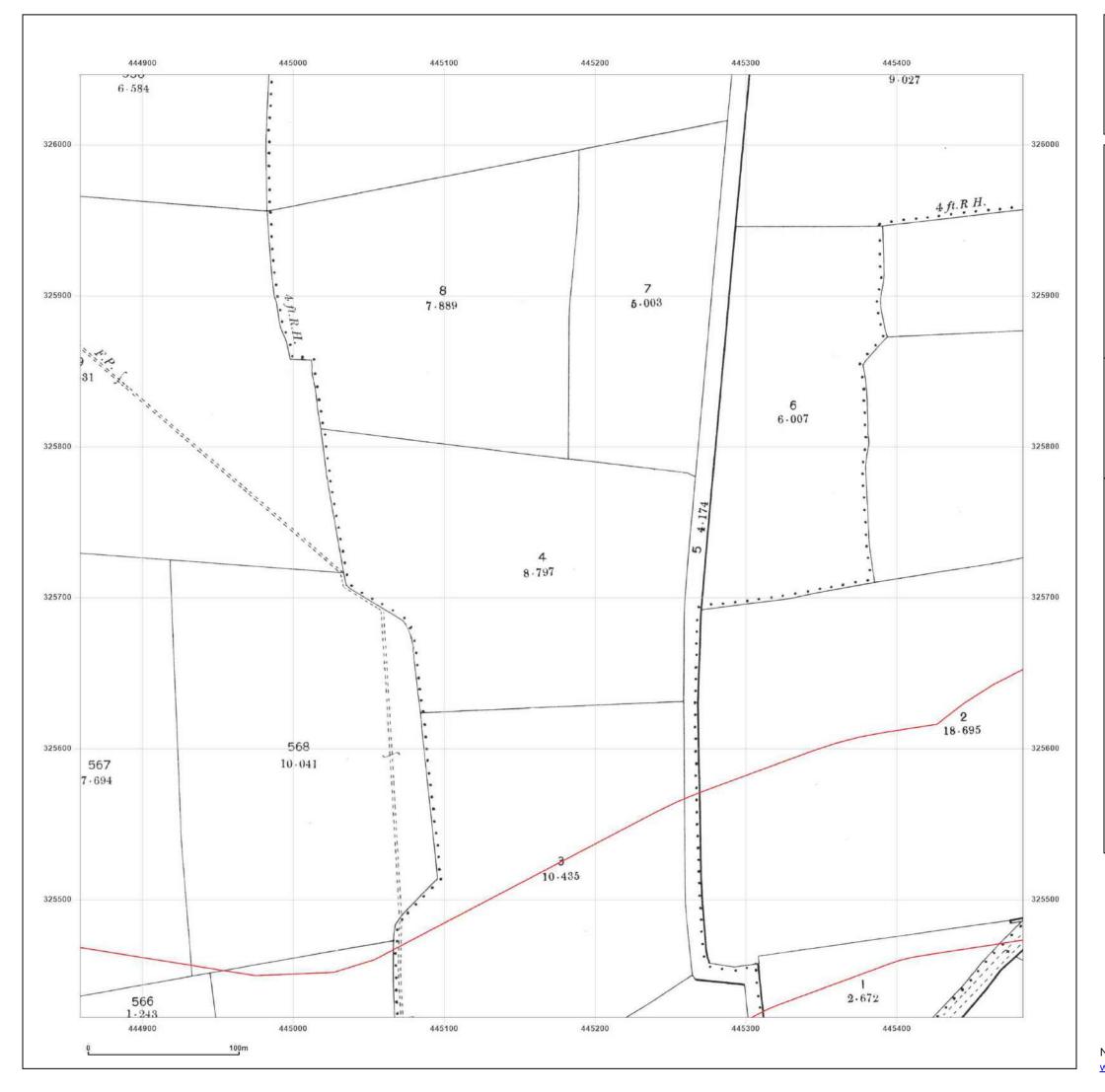




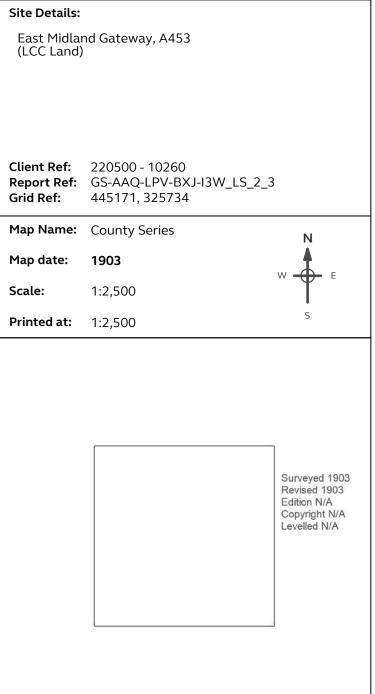
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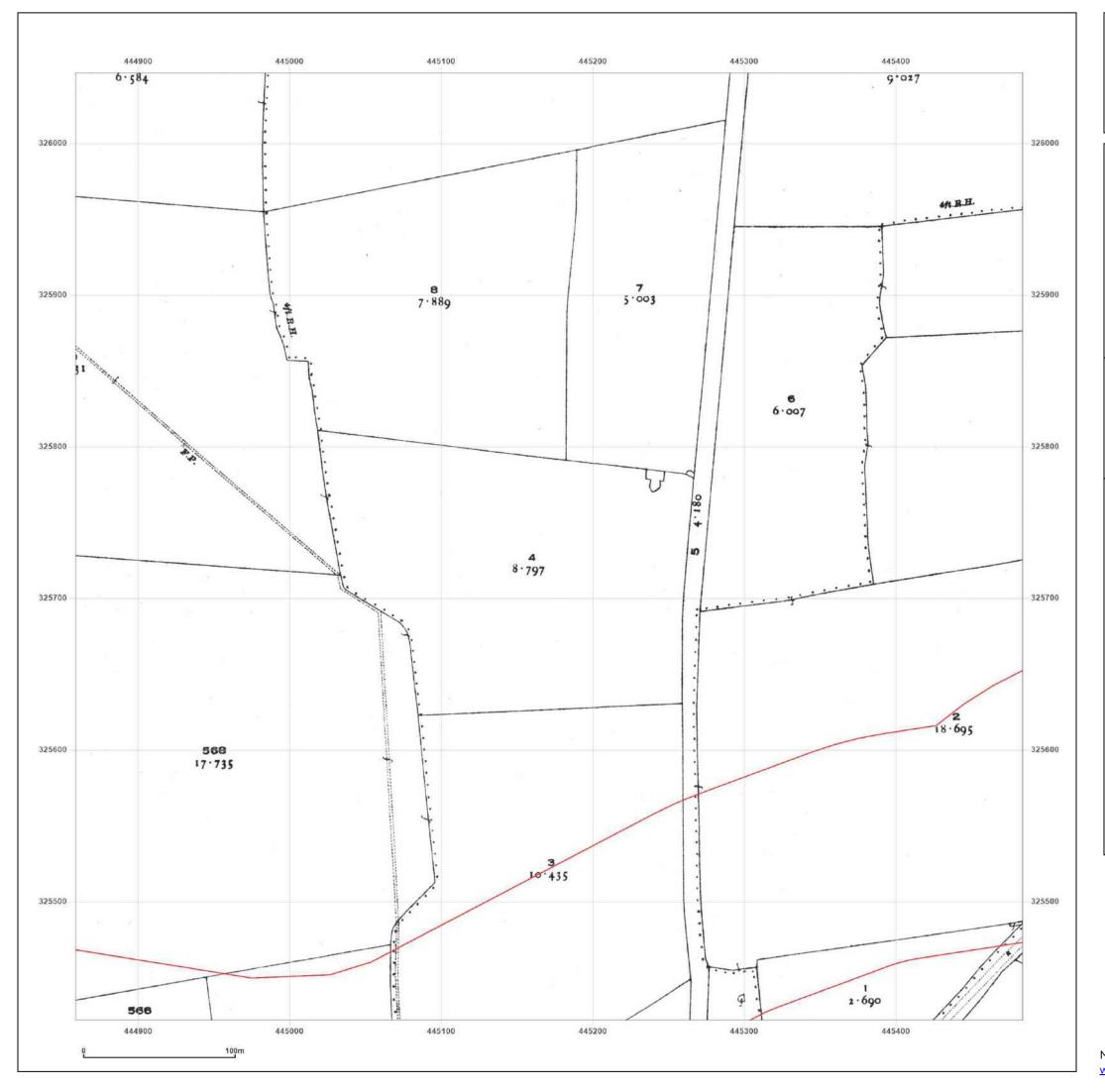




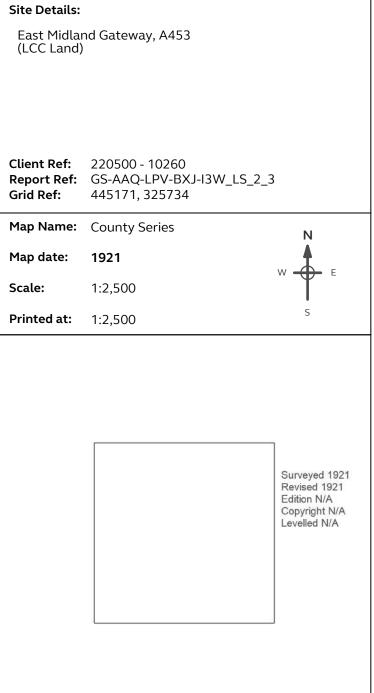
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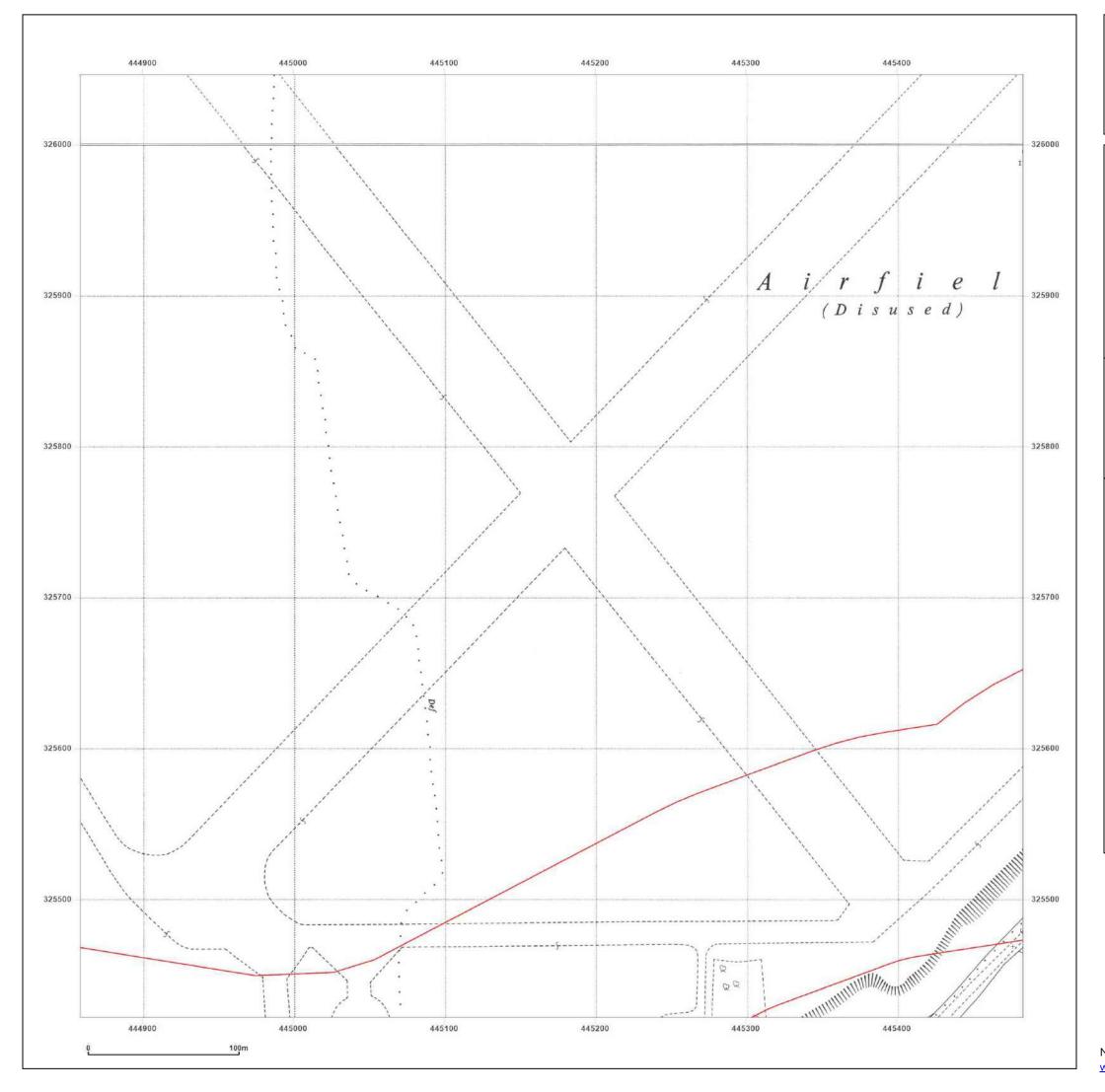




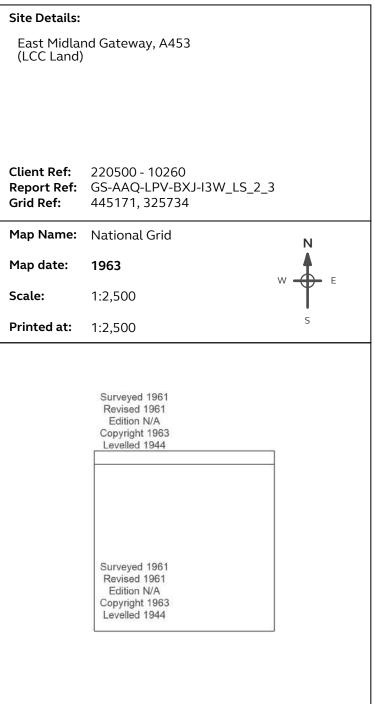
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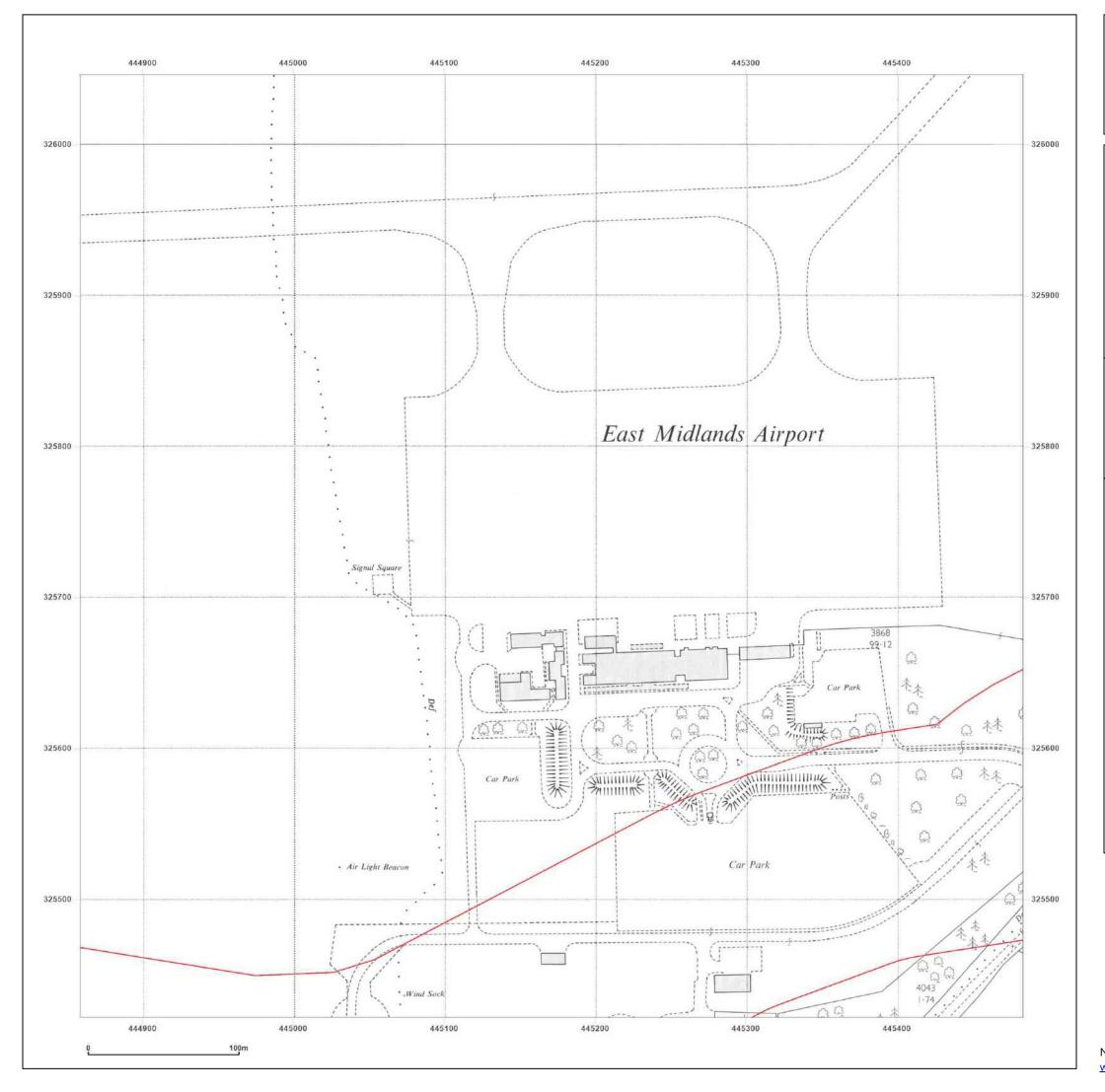




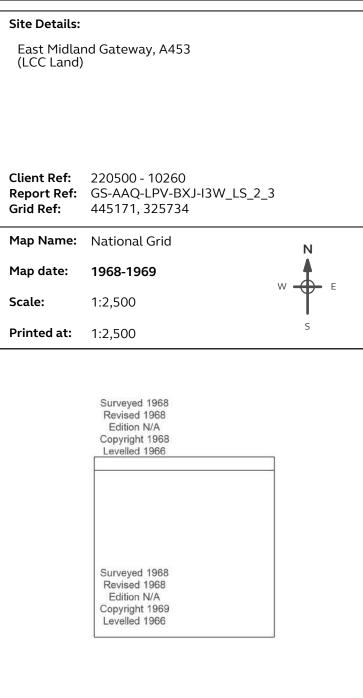
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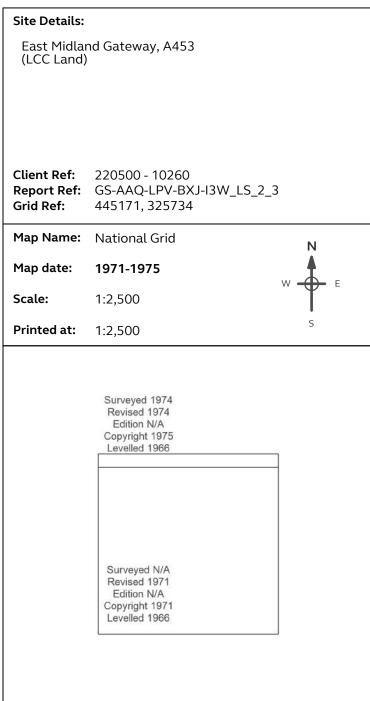
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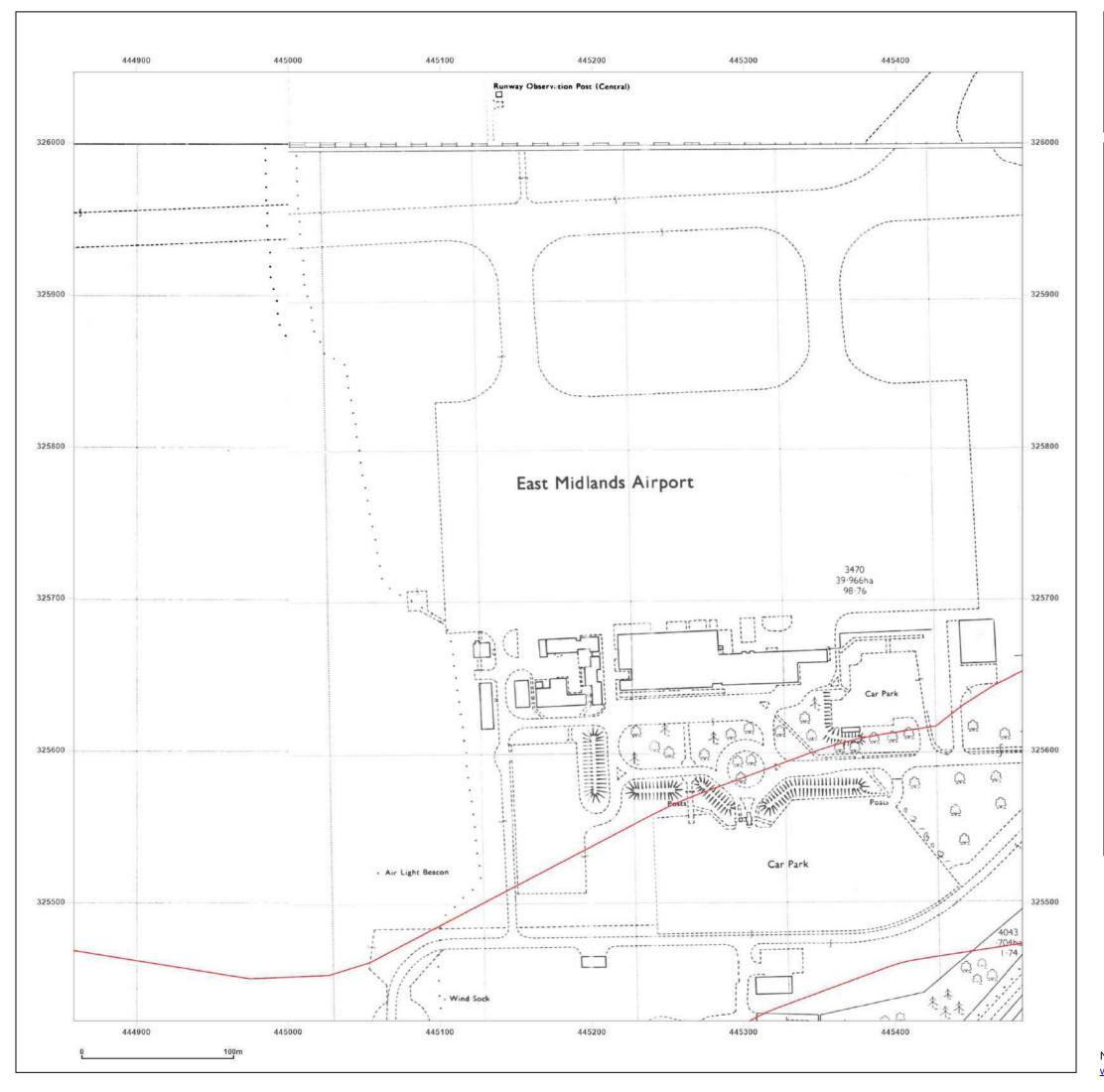




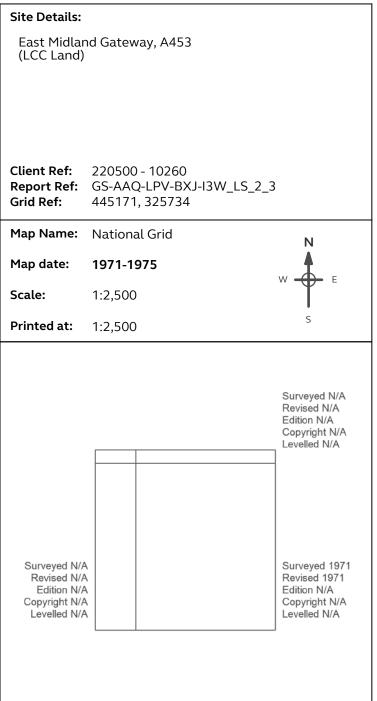
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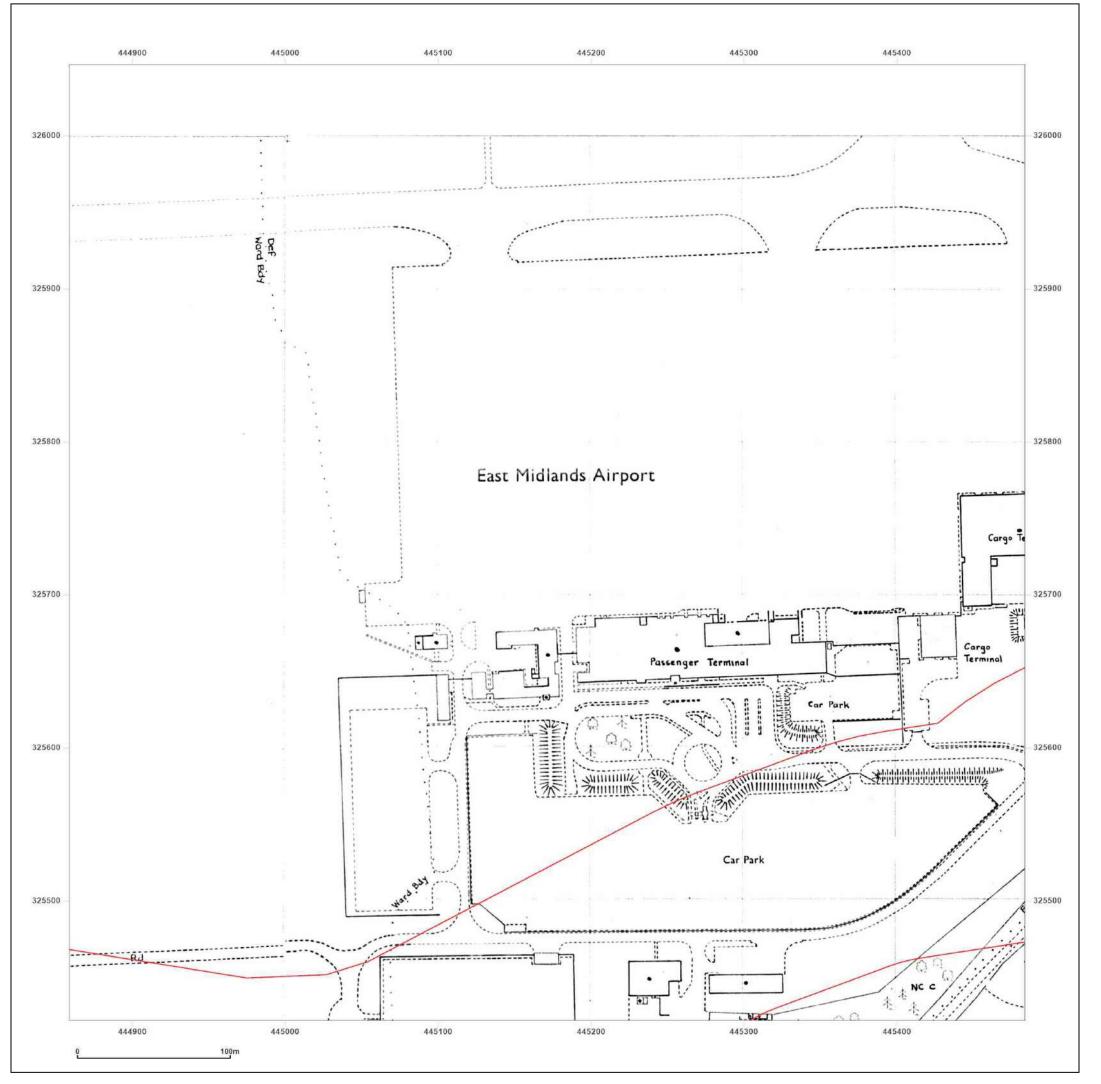




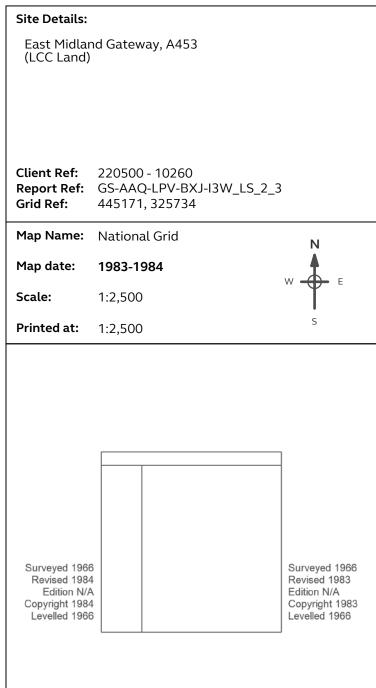
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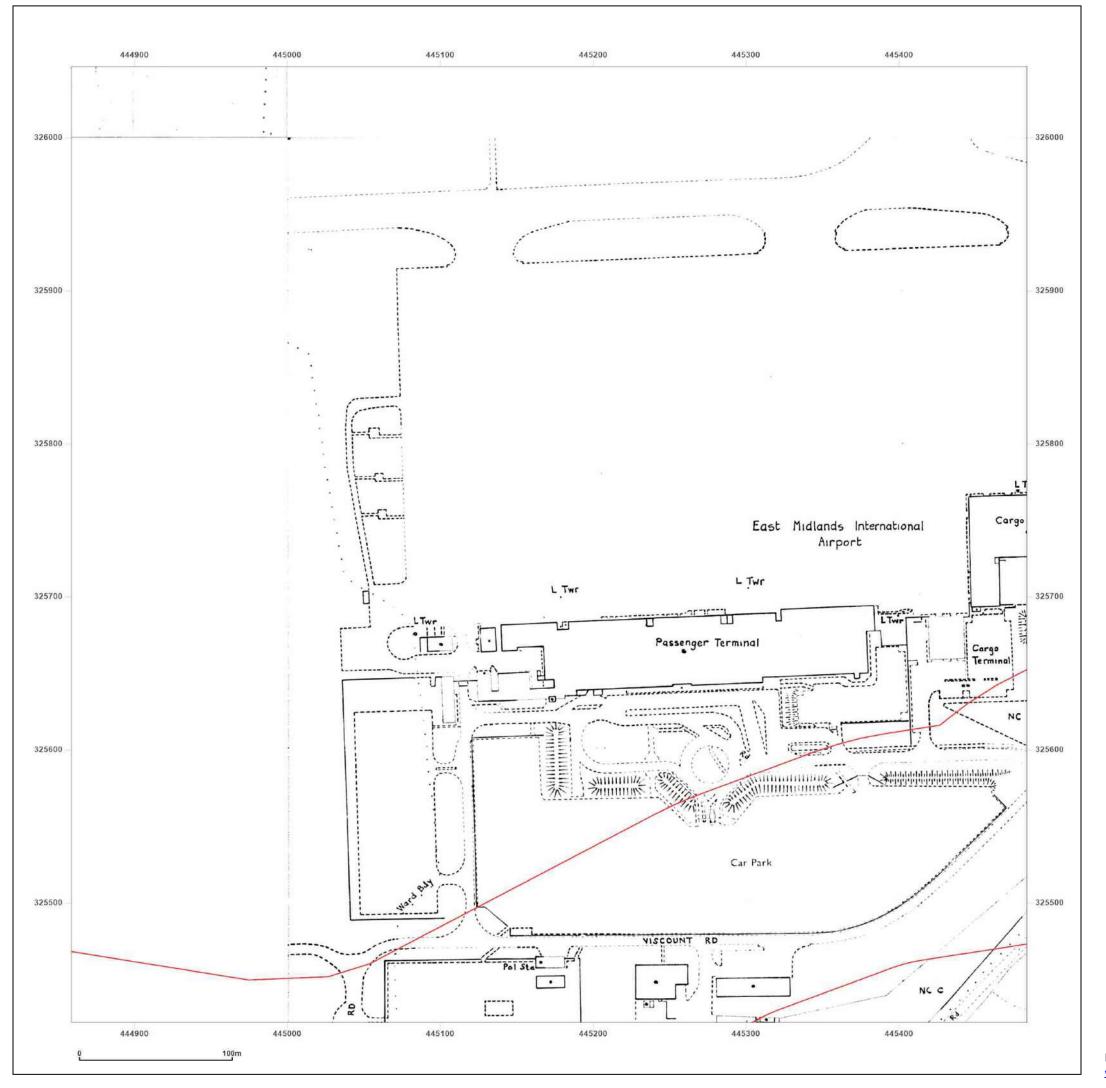




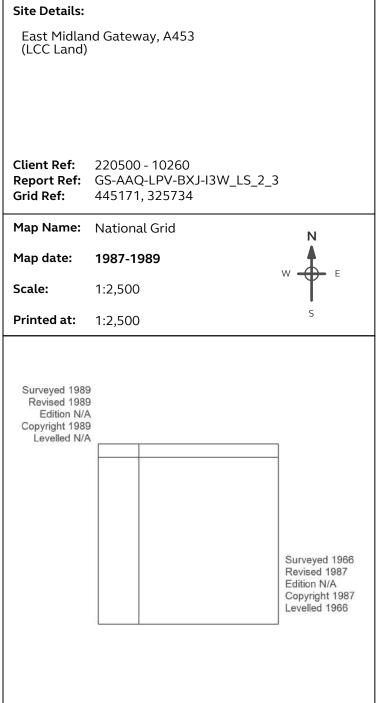
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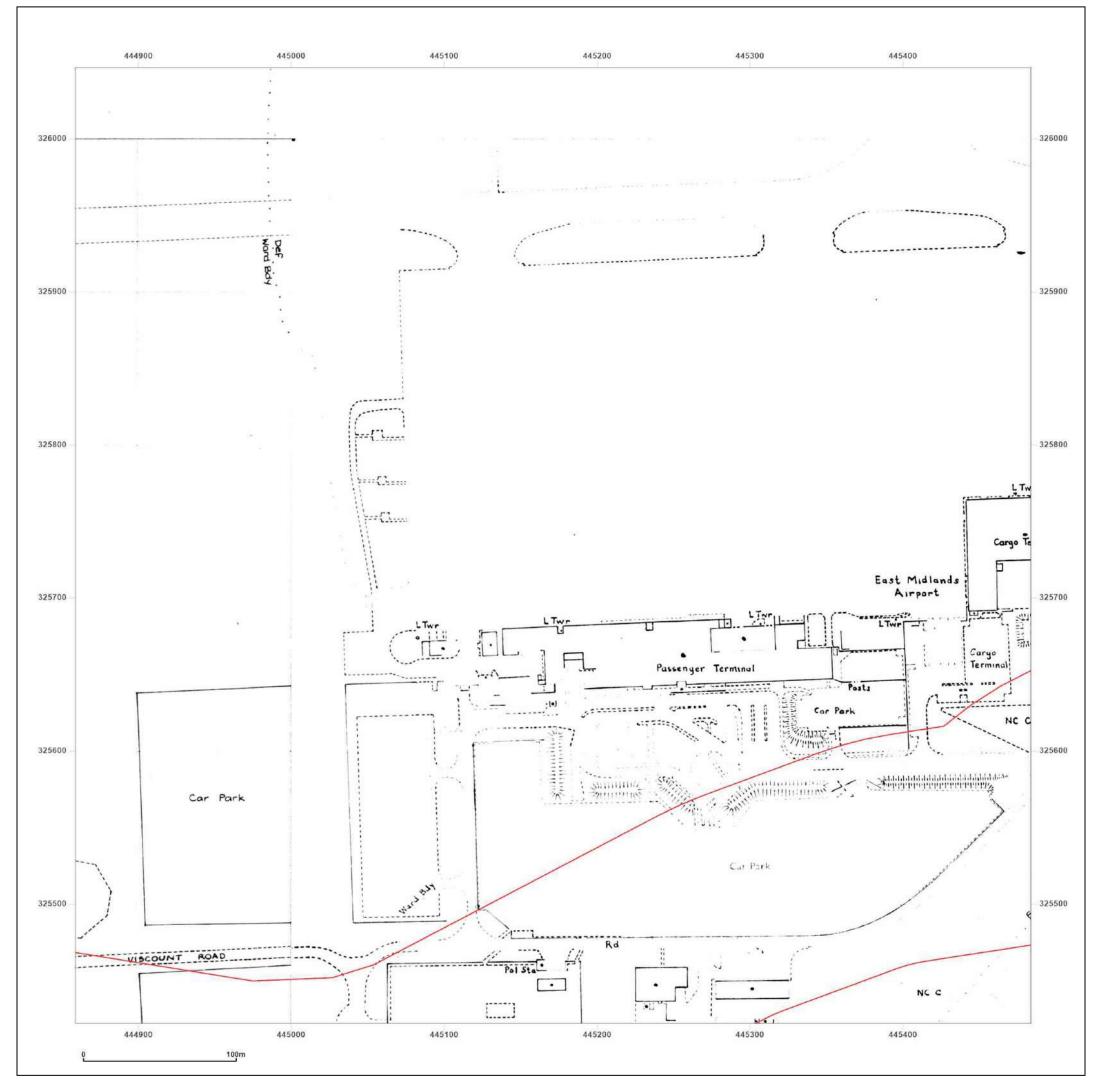




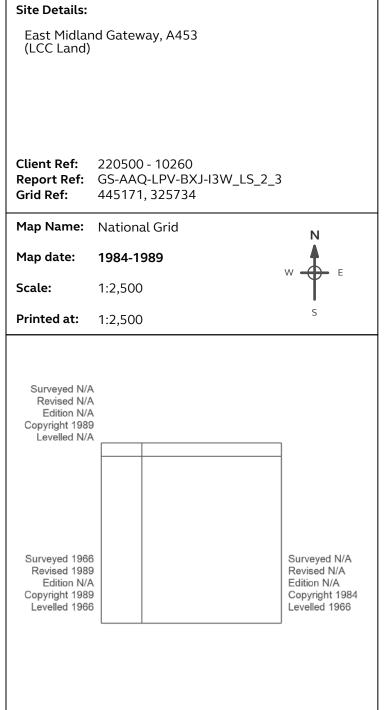
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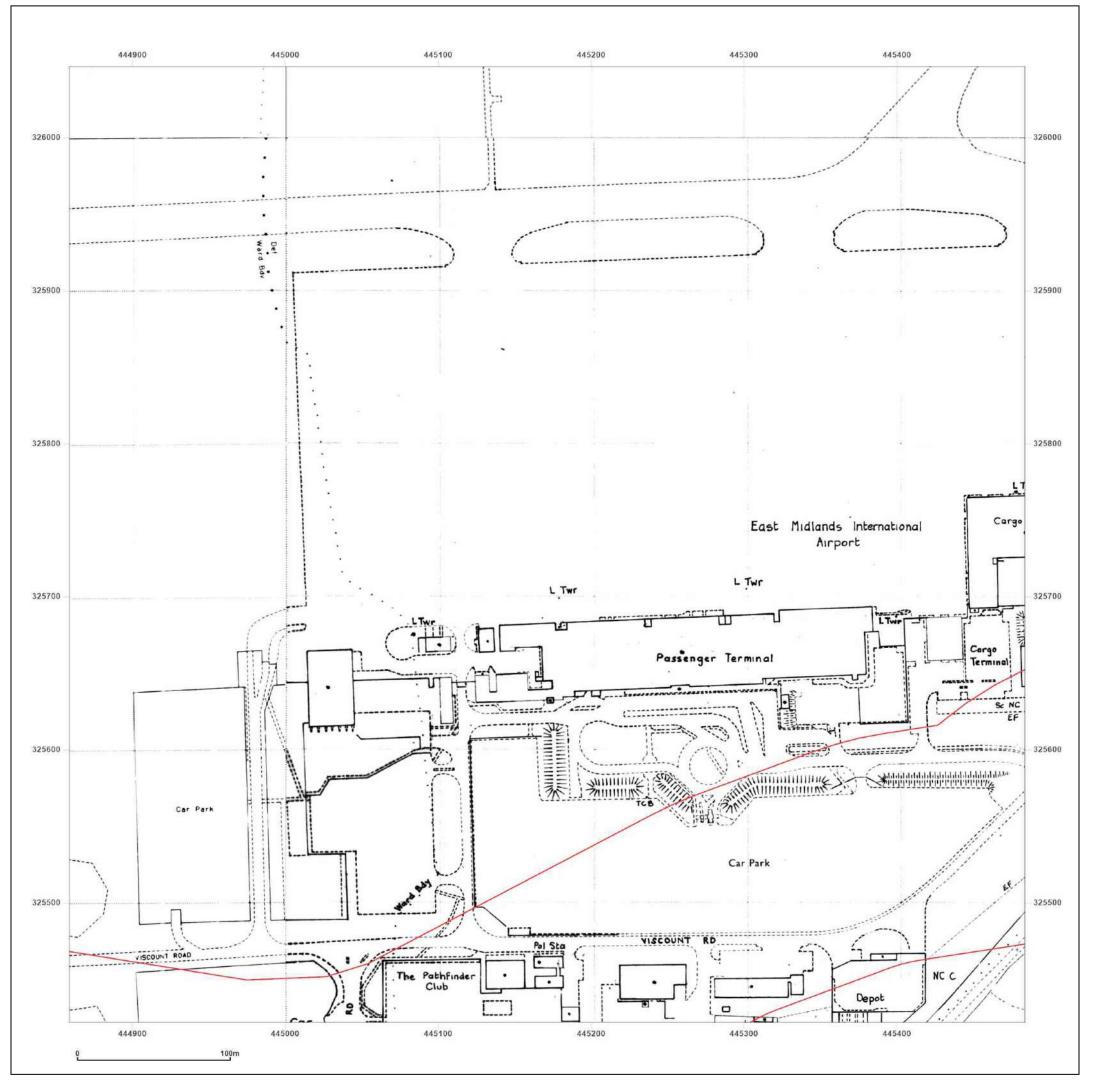




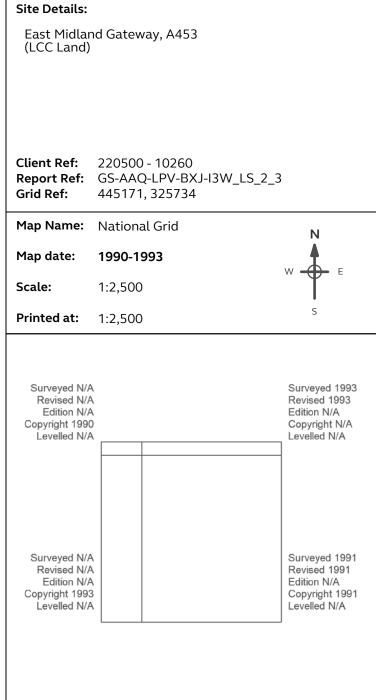
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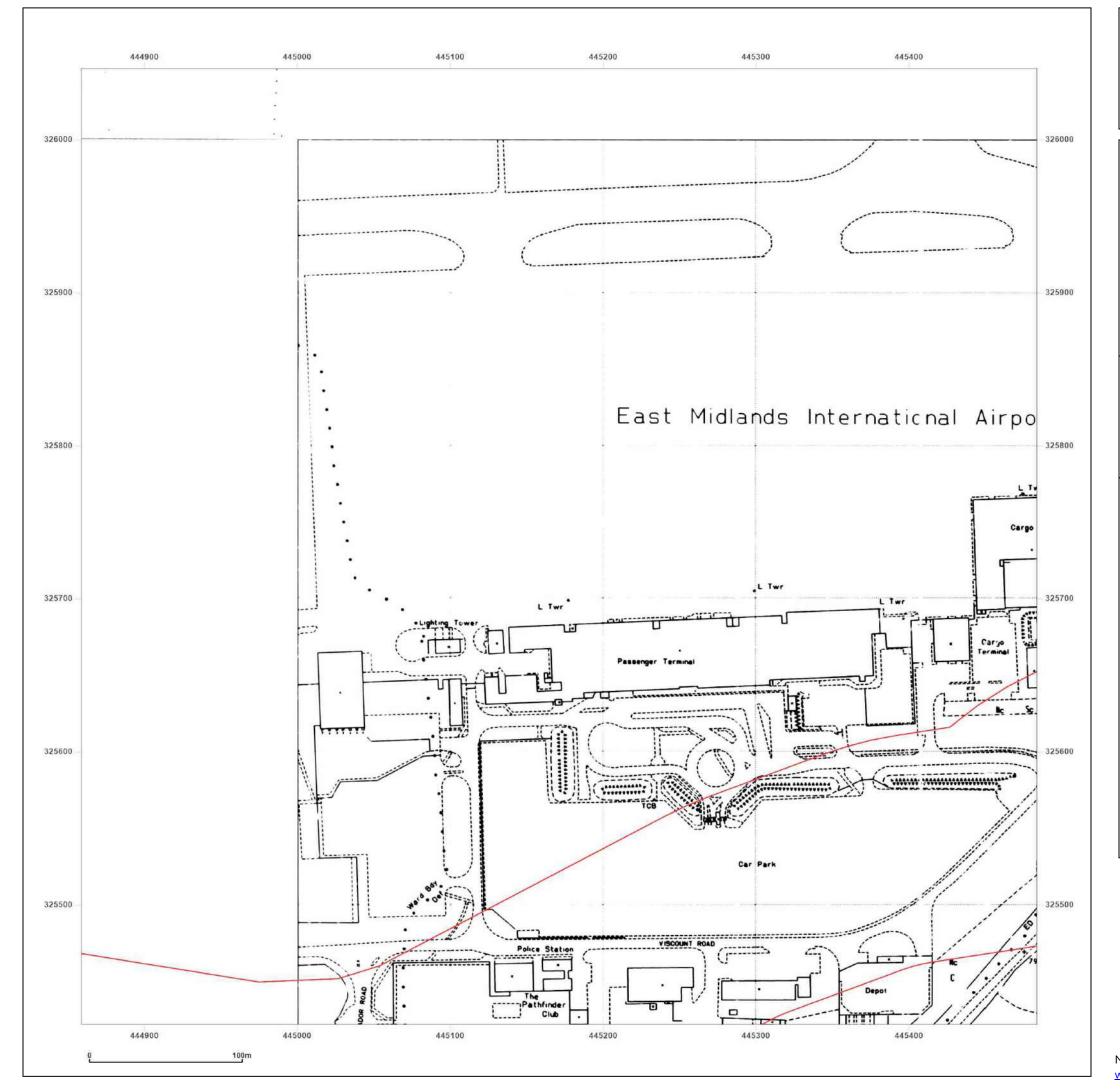




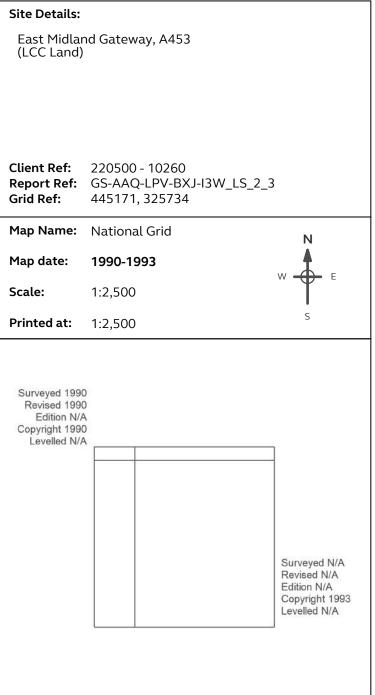
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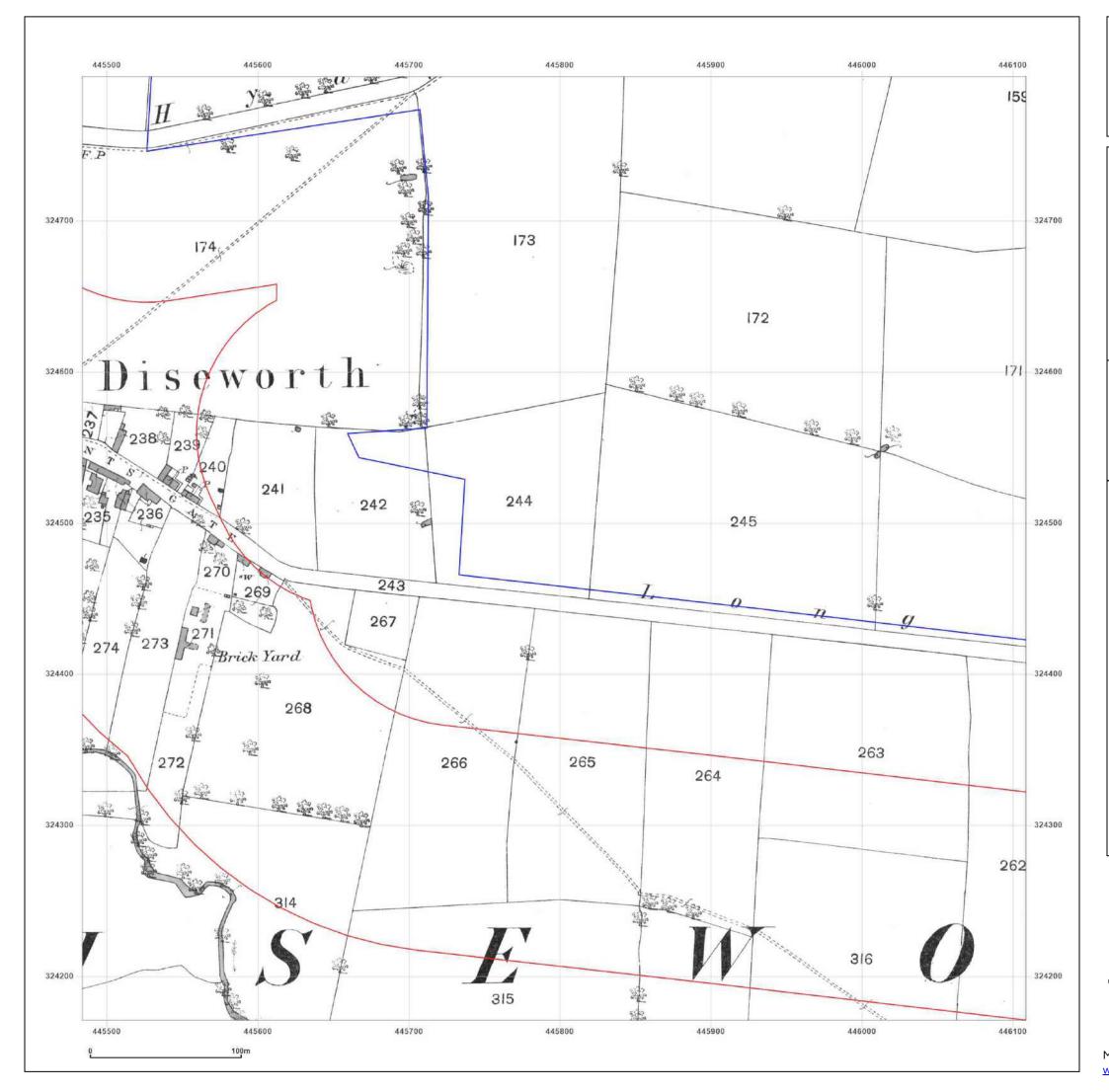




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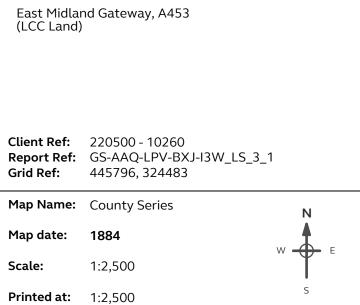
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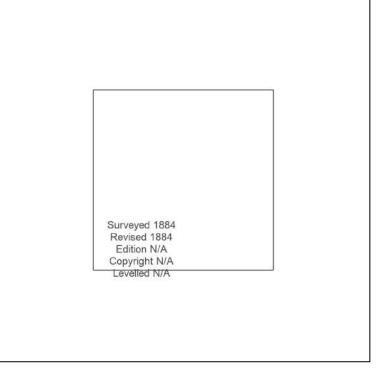
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Site Details:





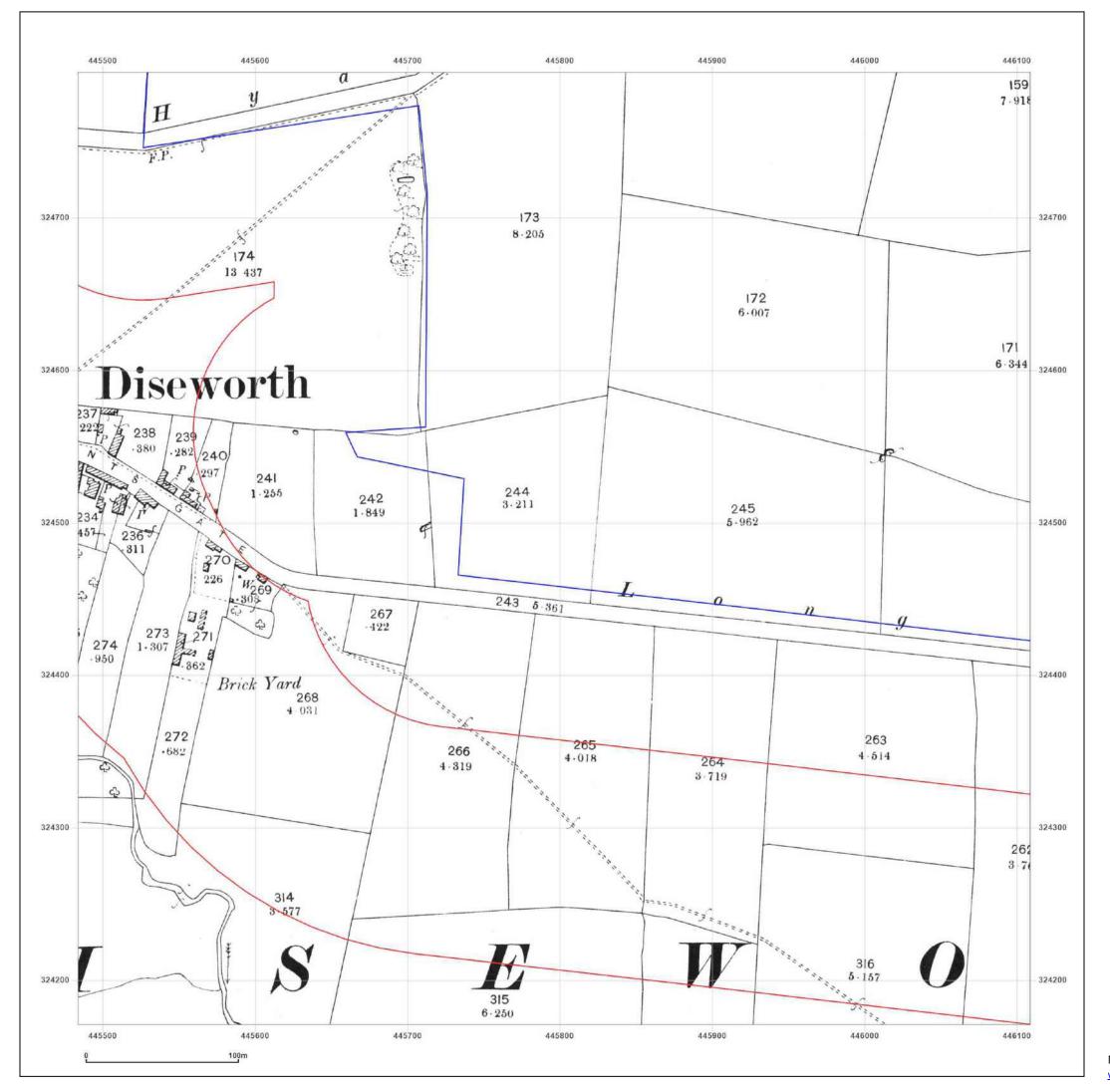


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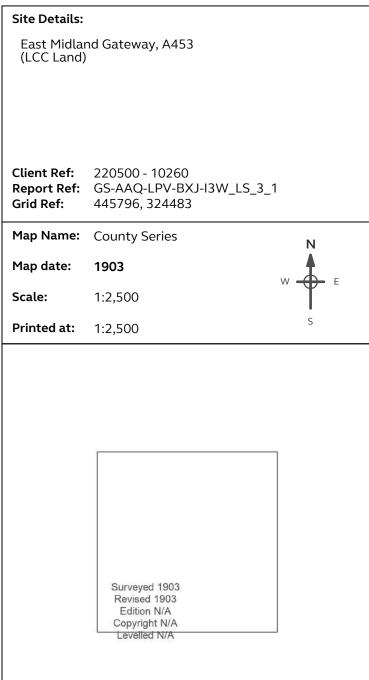
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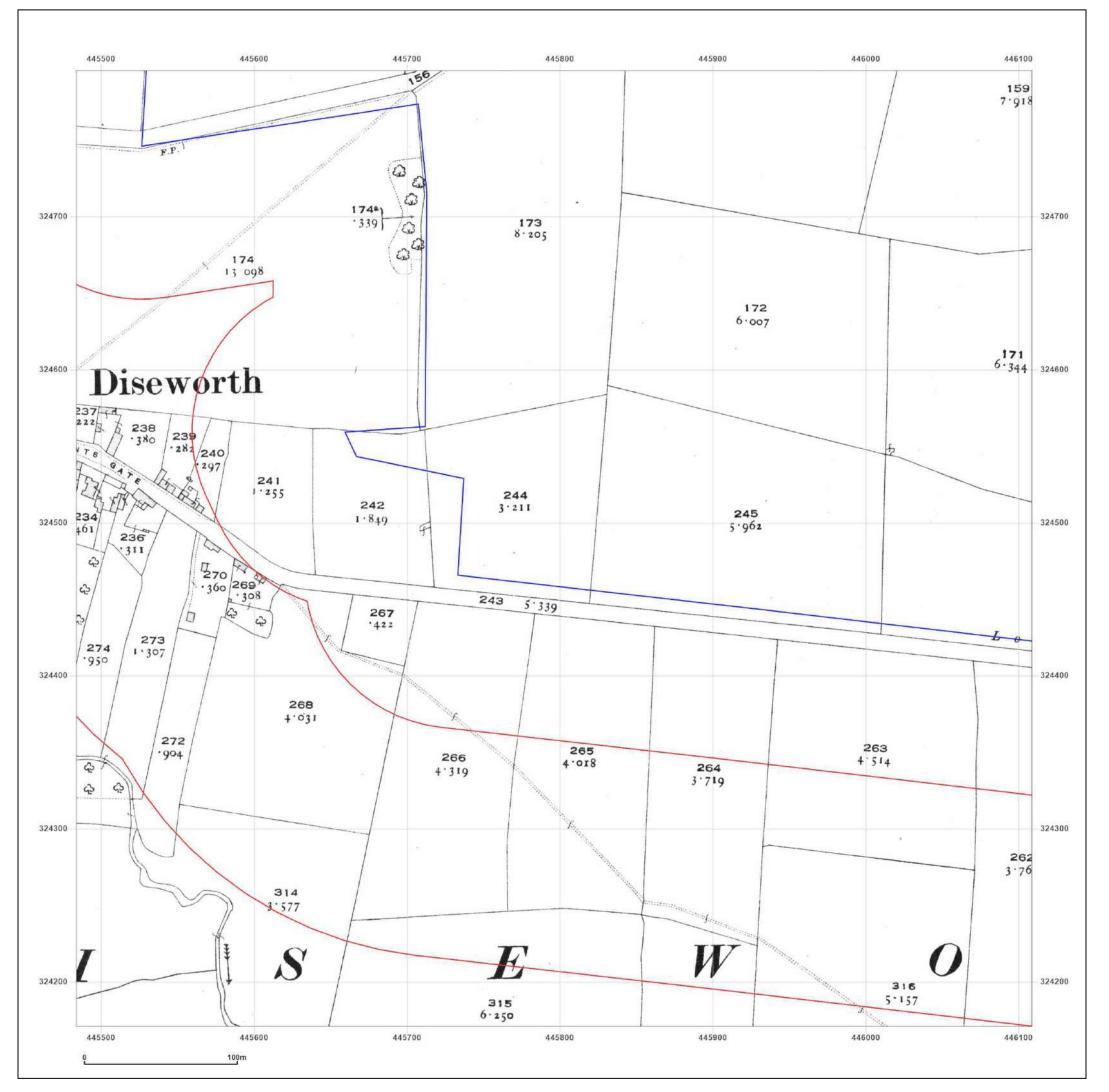




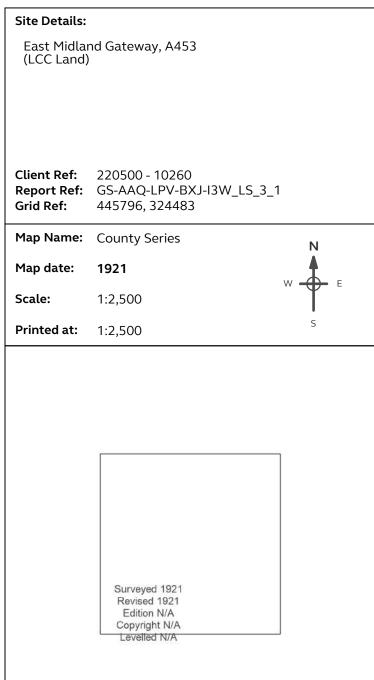
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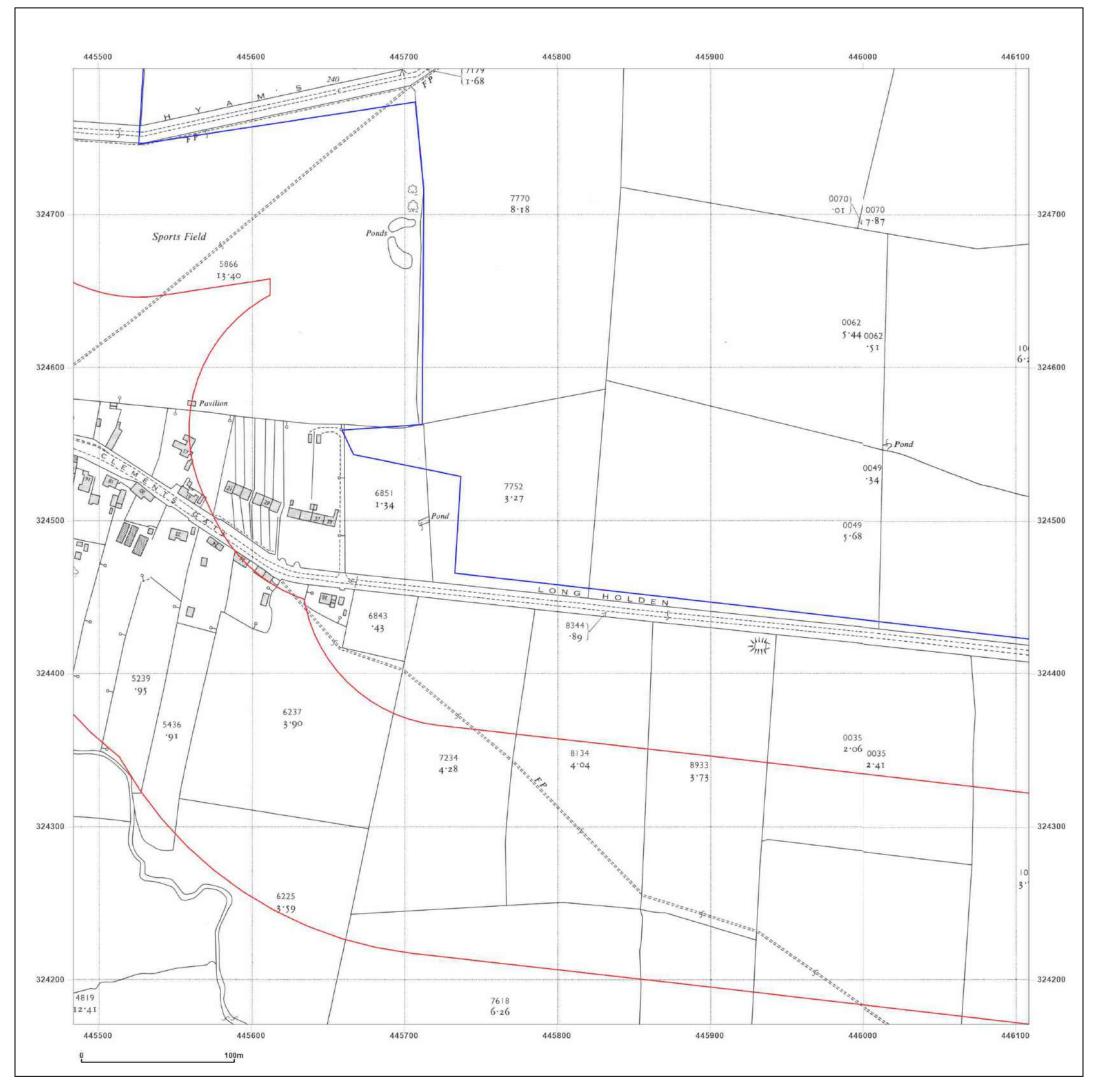




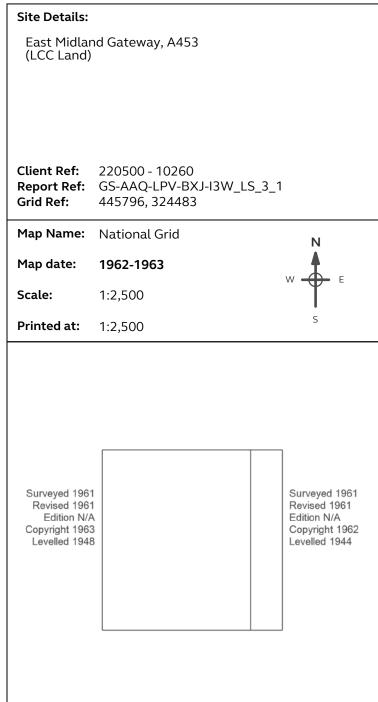
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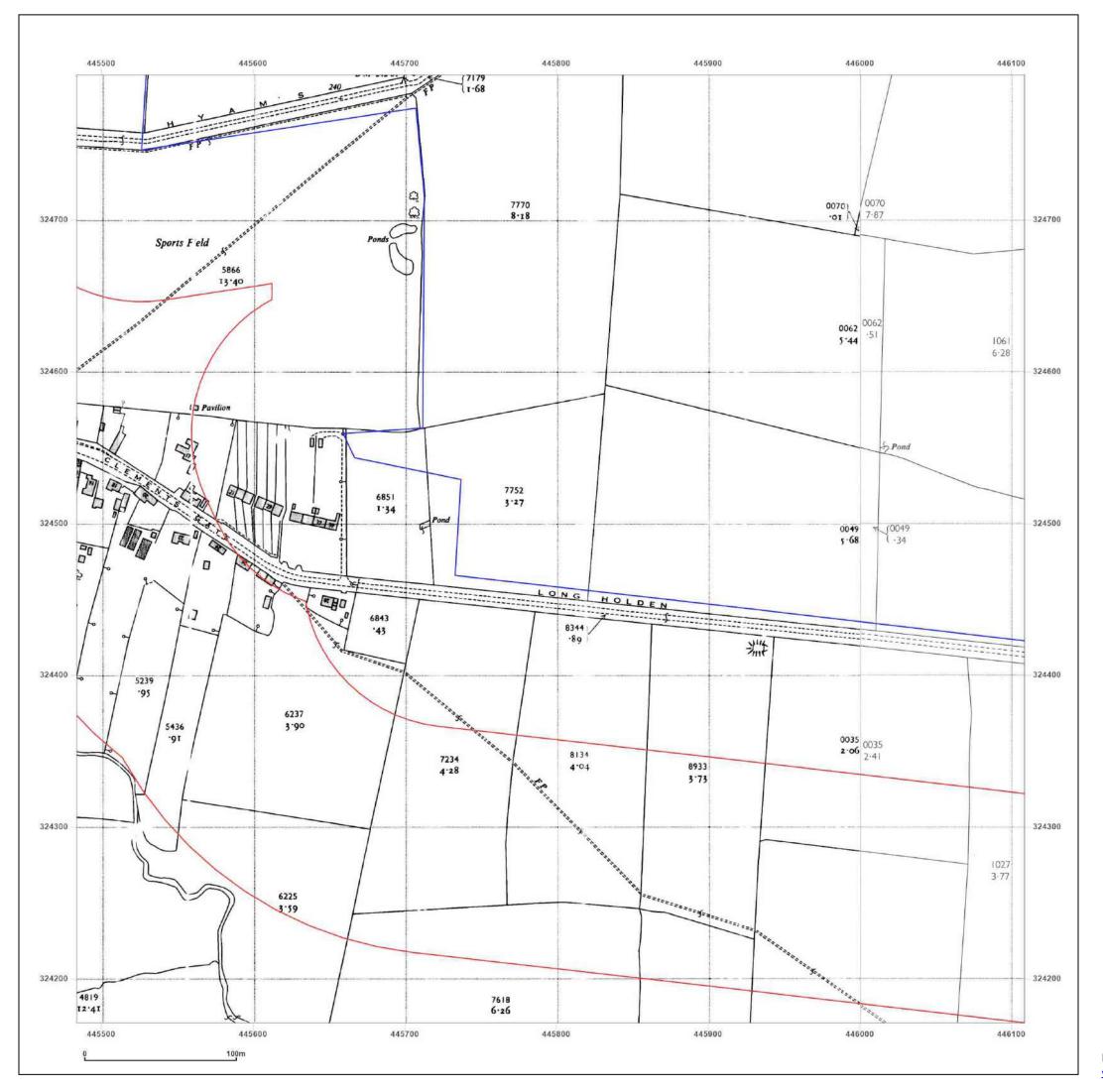




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## Site Details:

East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

**Report Ref:** GS-AAQ-LPV-BXJ-I3W\_LS\_3\_1

**Grid Ref:** 445796, 324483

Map Name: National Grid

Map date: 1963-1967

**Scale:** 1:2,500

**Printed at:** 1:2,500

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Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1966
Revised 1966
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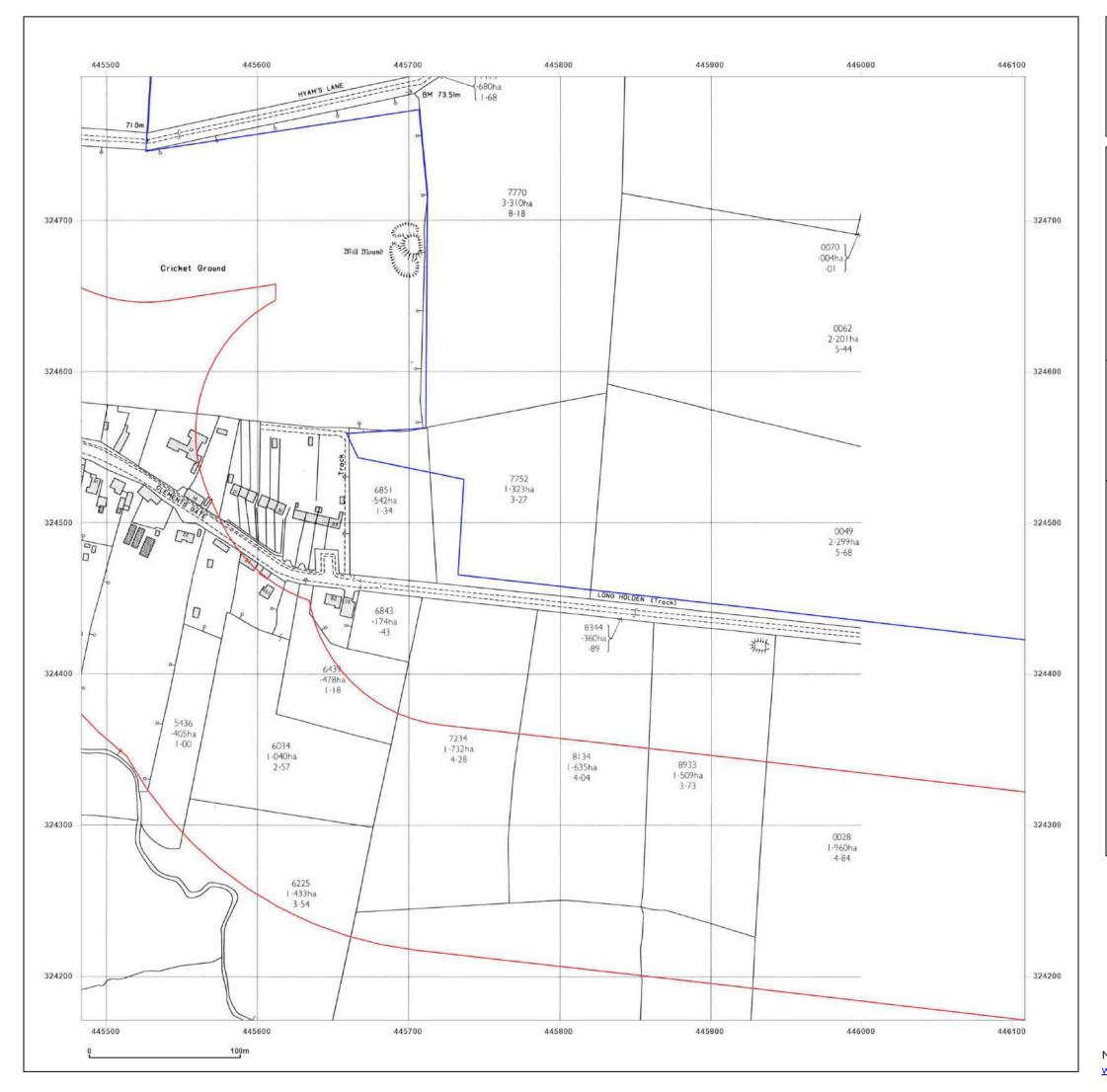


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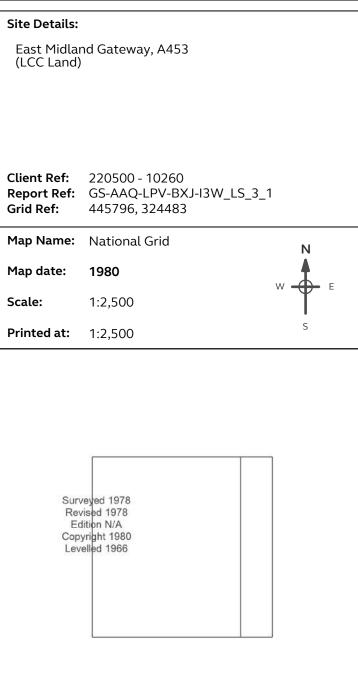
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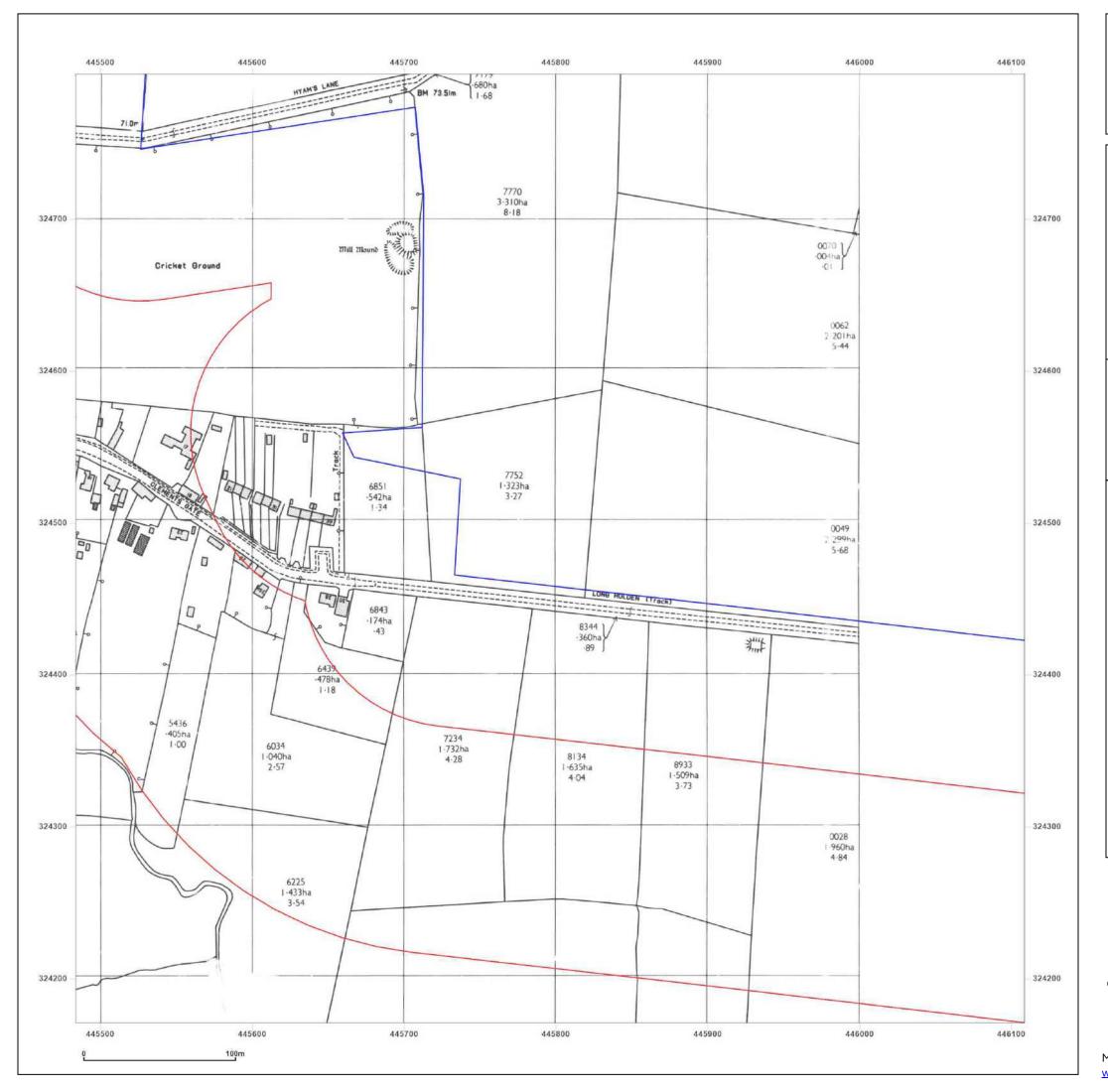




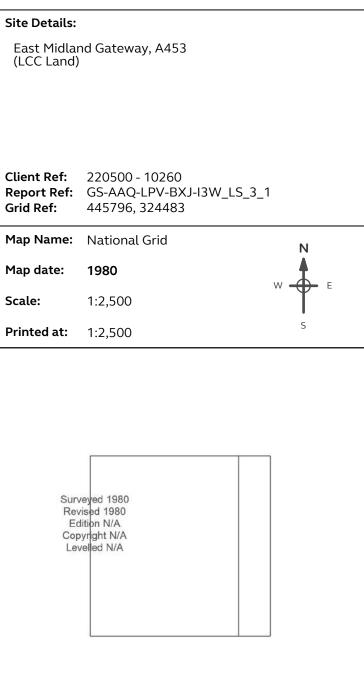
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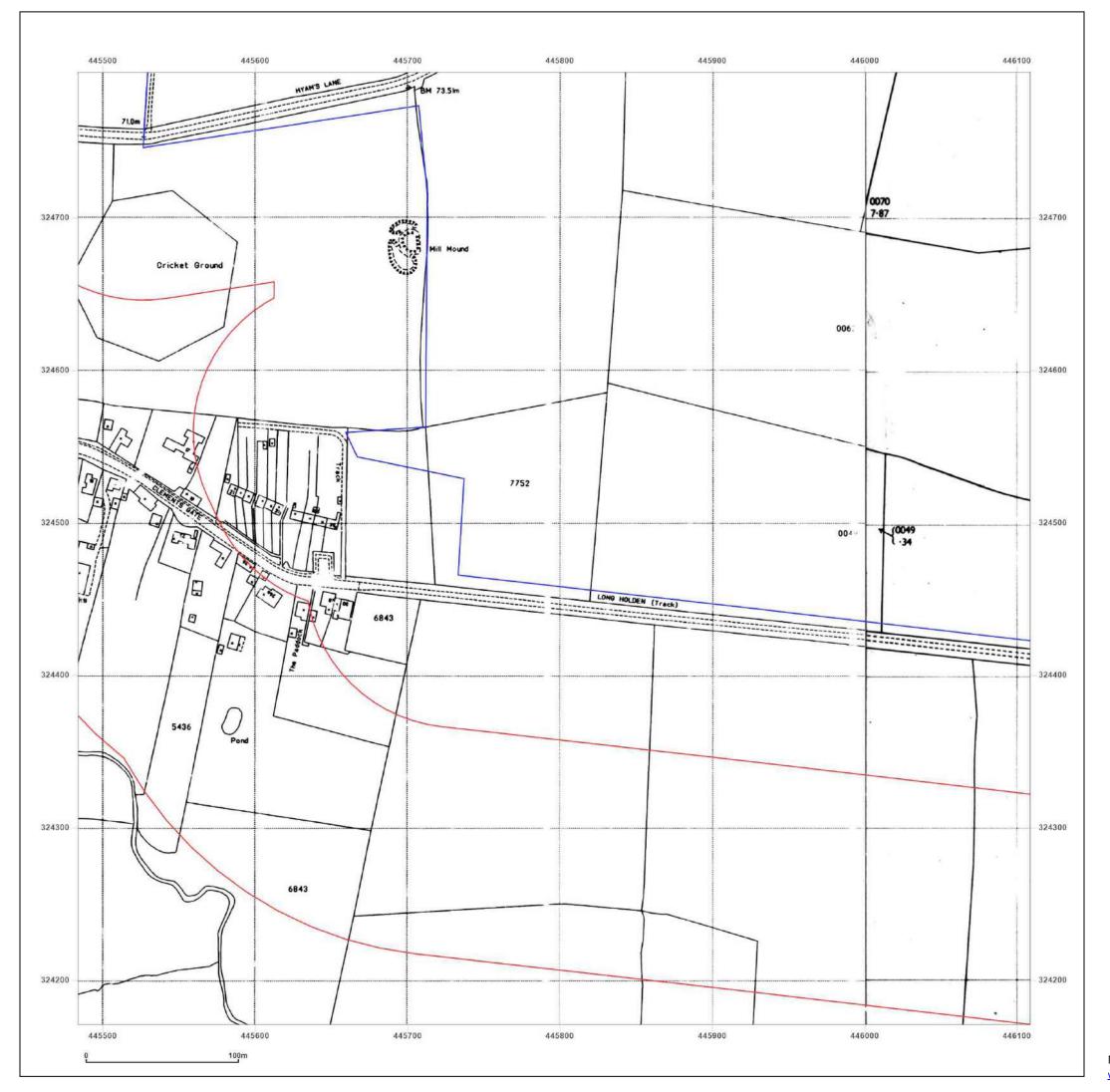




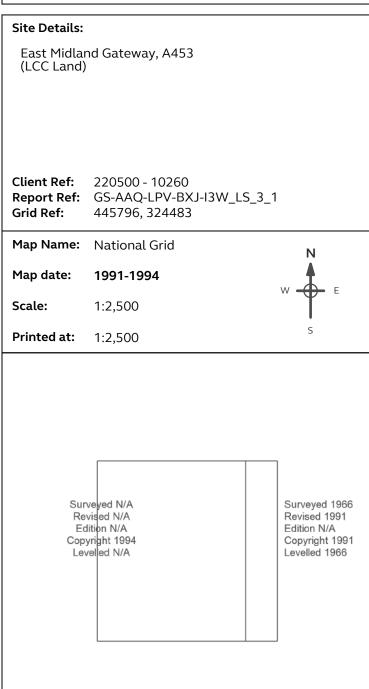
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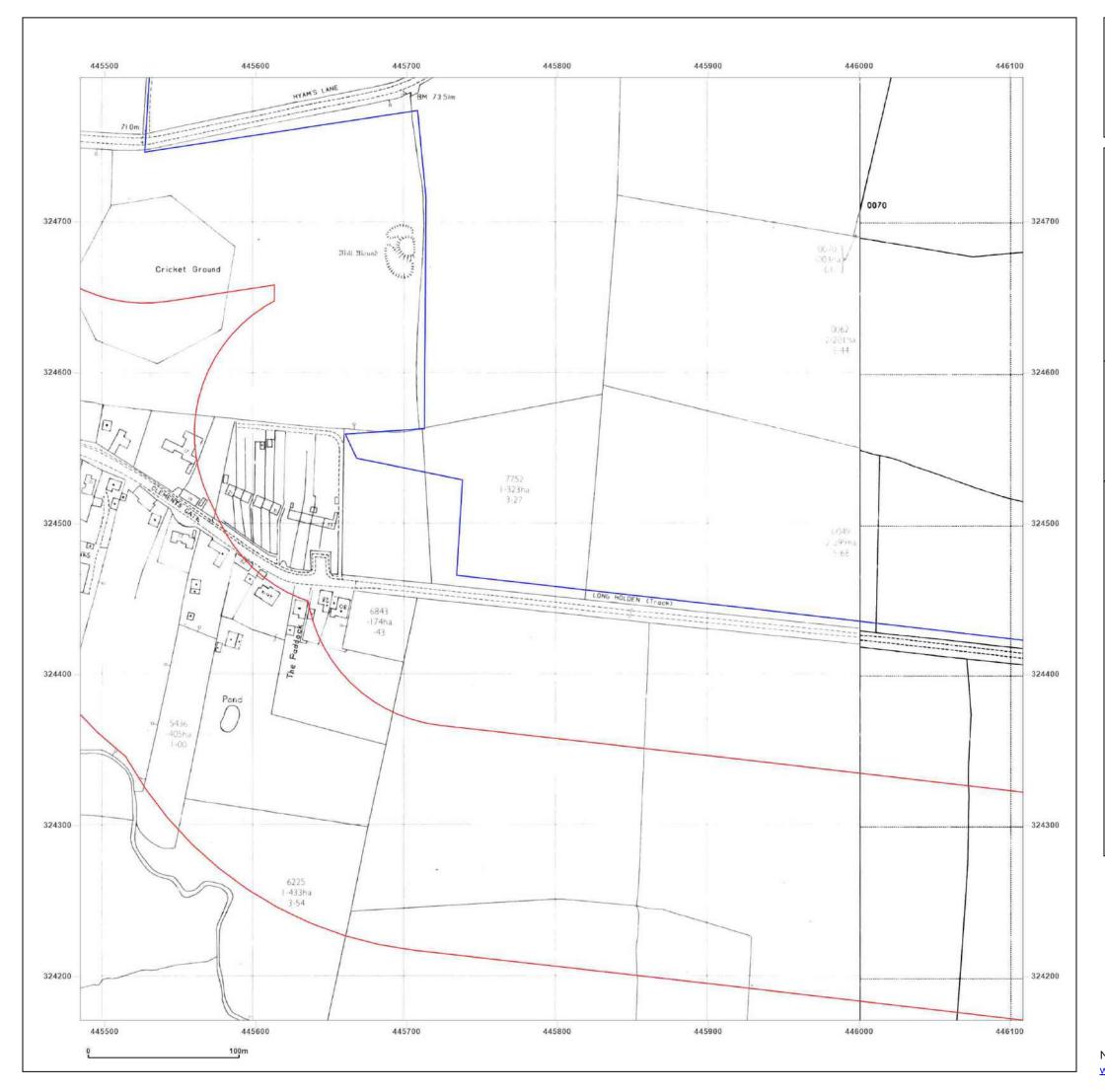




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Production date: 13 December 2024

Map legend available at:





## Site Details:

East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

**Report Ref:** GS-AAQ-LPV-BXJ-I3W\_LS\_3\_1

**Grid Ref:** 445796, 324483

Map Name: National Grid

Map date: 1992-1994

**Scale:** 1:2,500

**Printed at:** 1:2,500

Surveyed 1966 Revised 1992 Edition N/A Copyright 1992 Levelled 1966

Surveyed N/A Revised N/A Edition N/A Copyright 1994 Levelled N/A

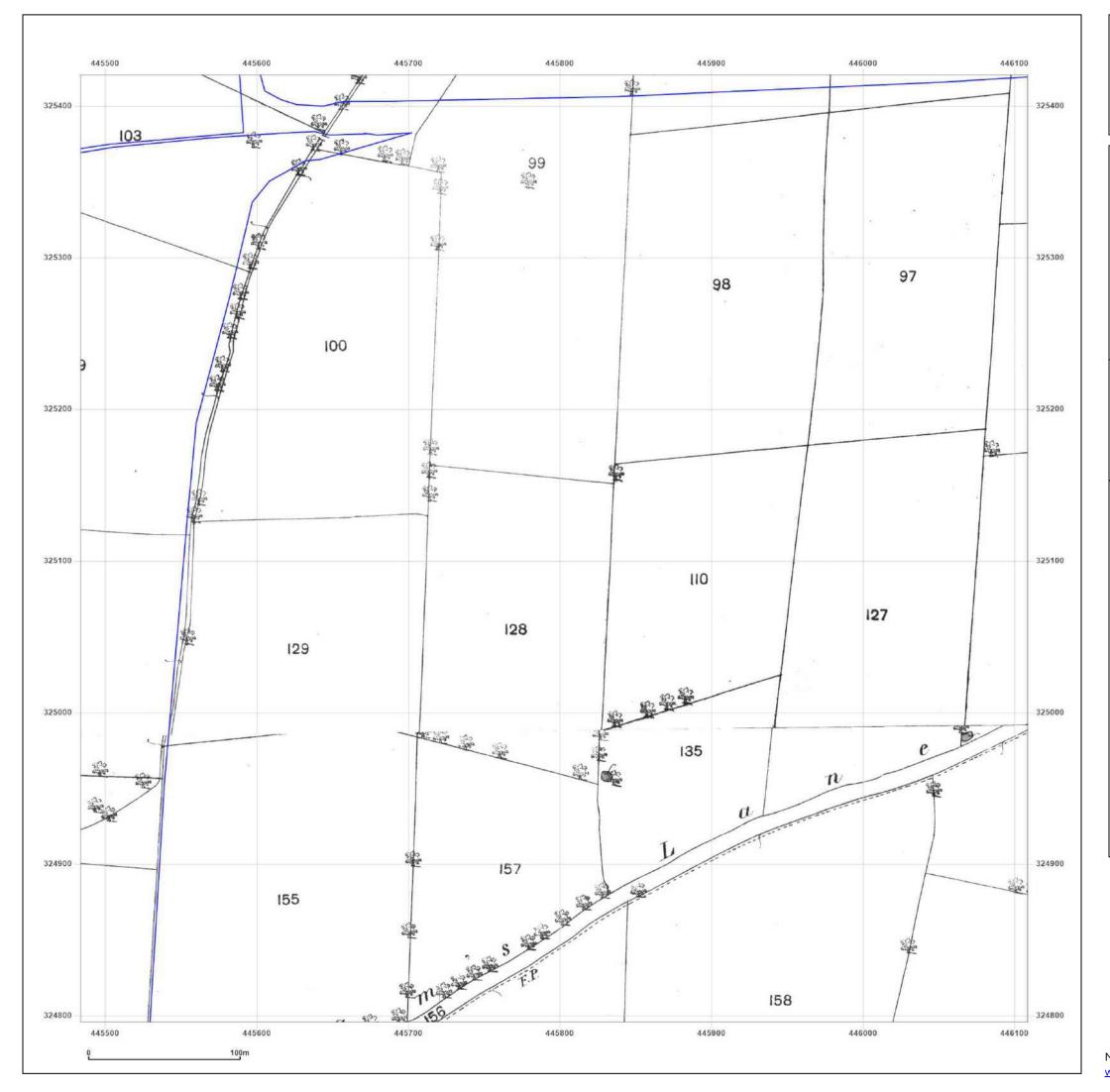


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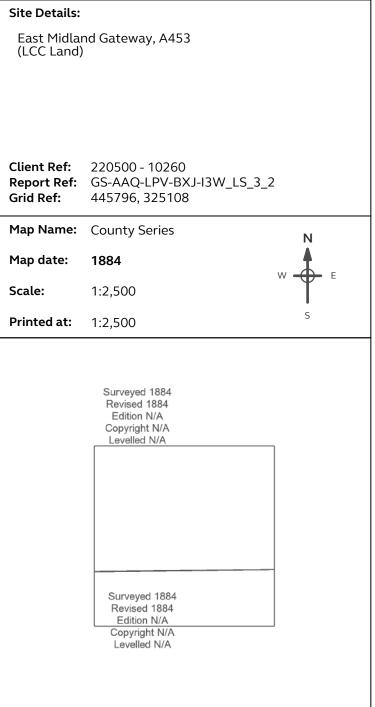
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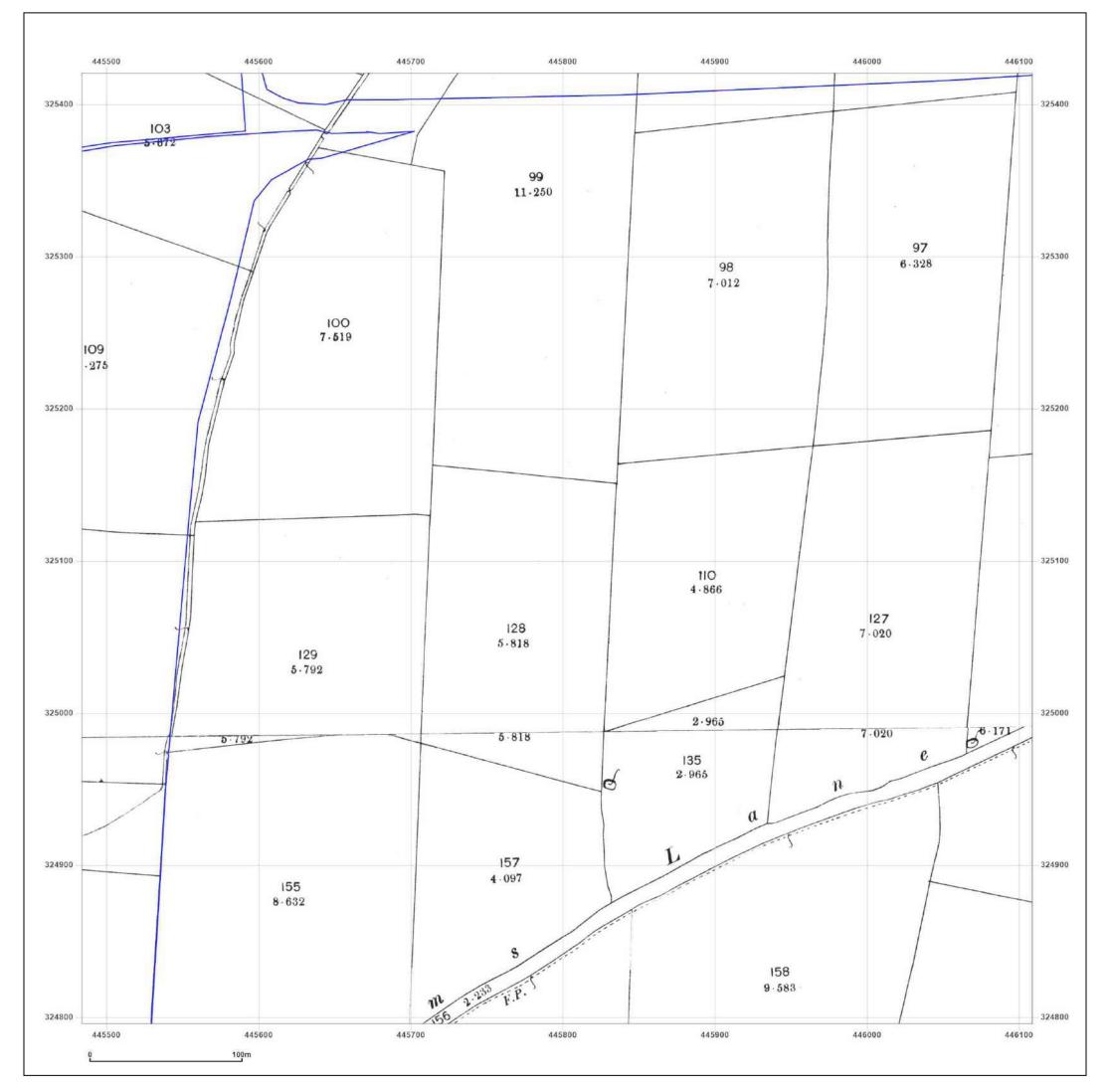




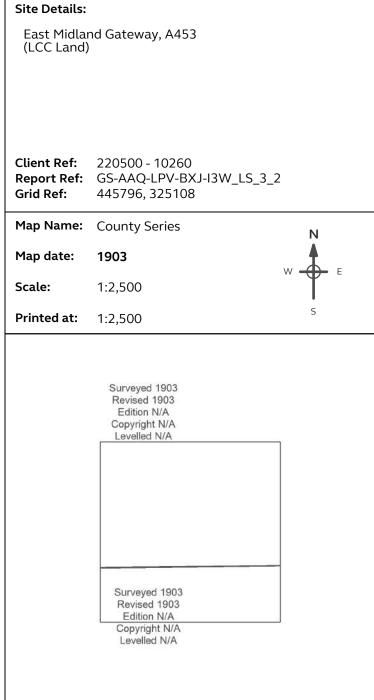
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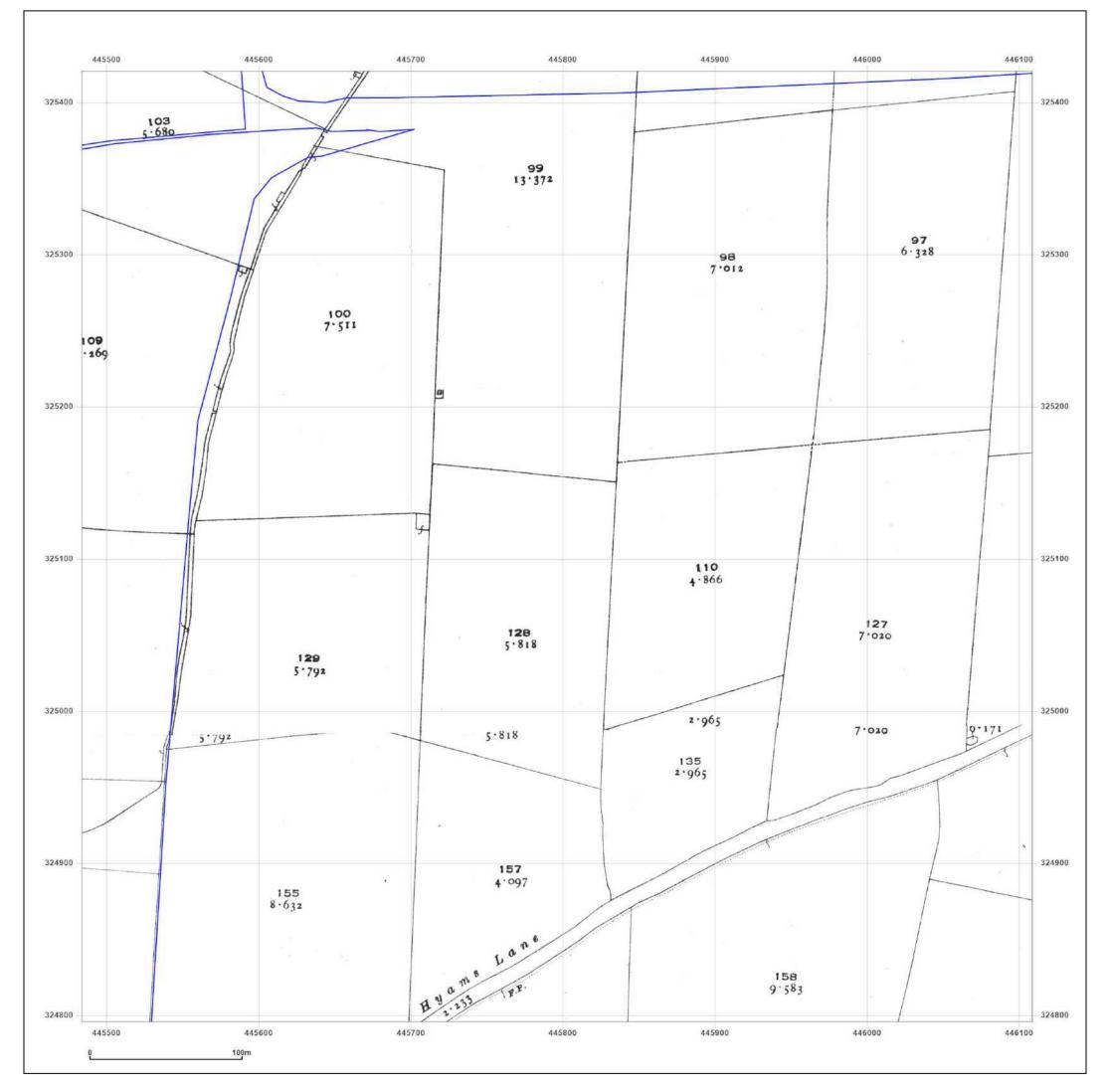




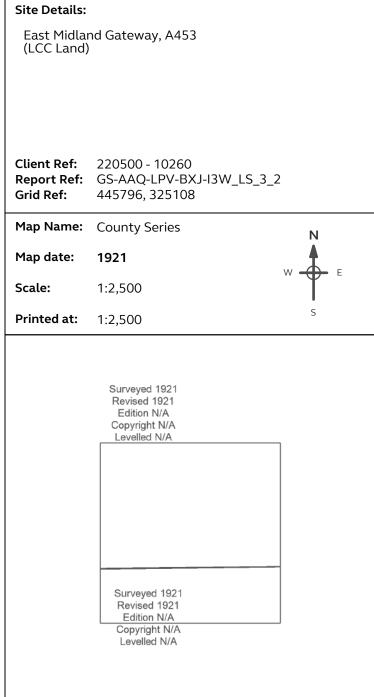
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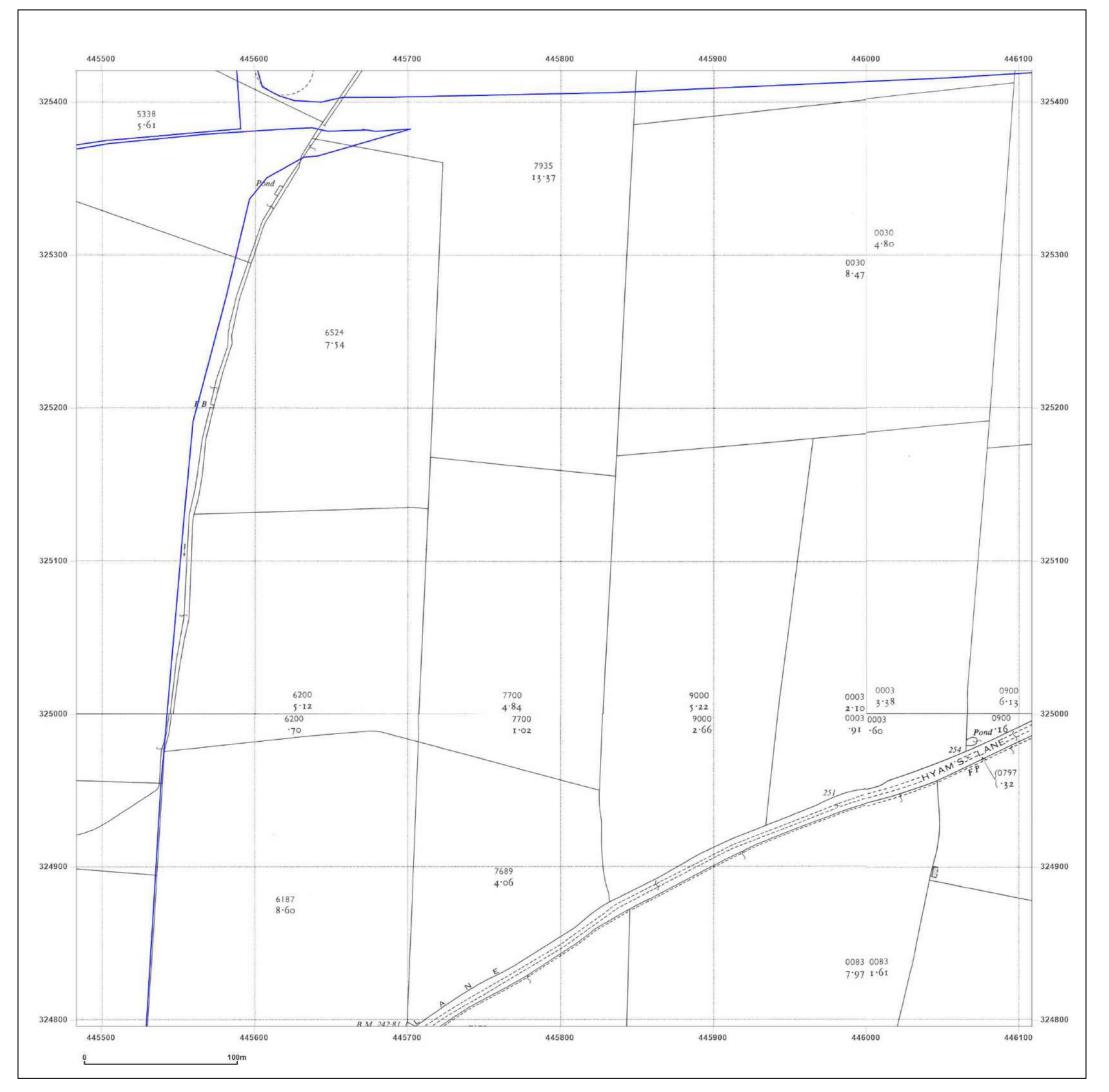




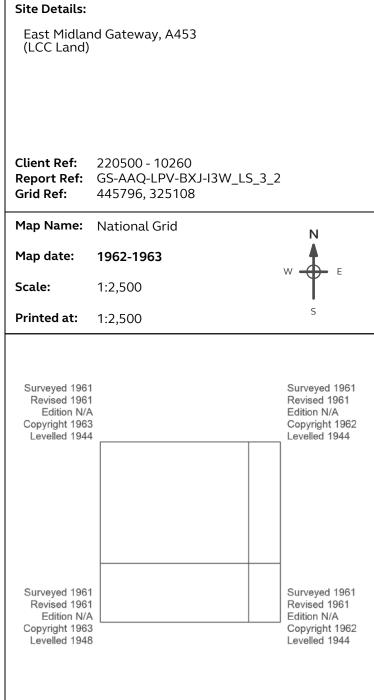
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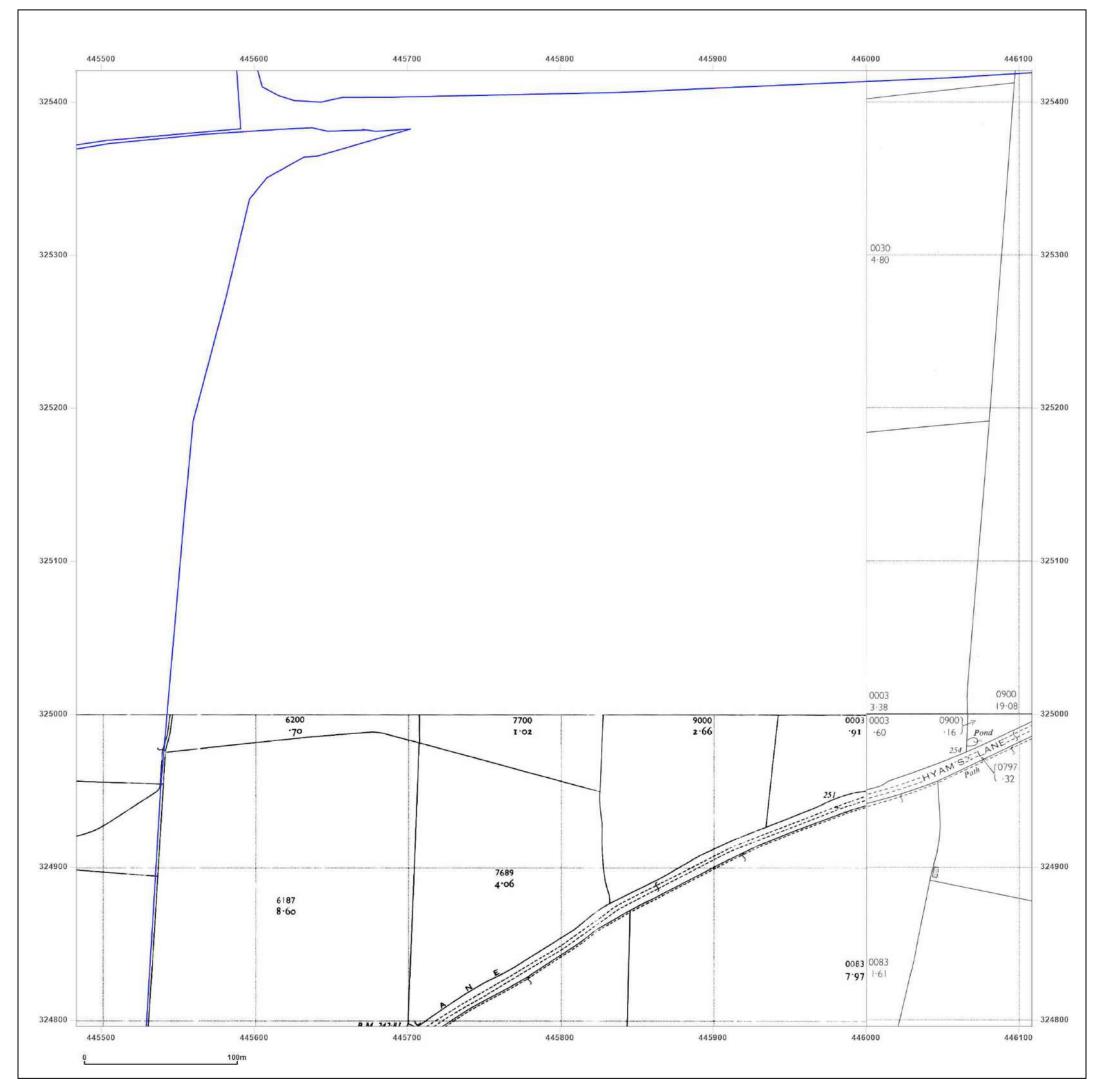




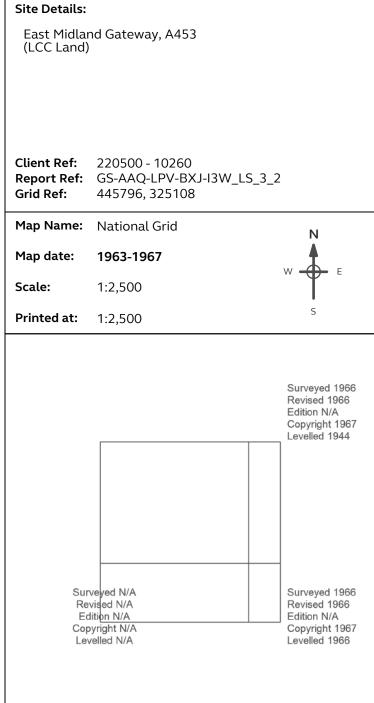
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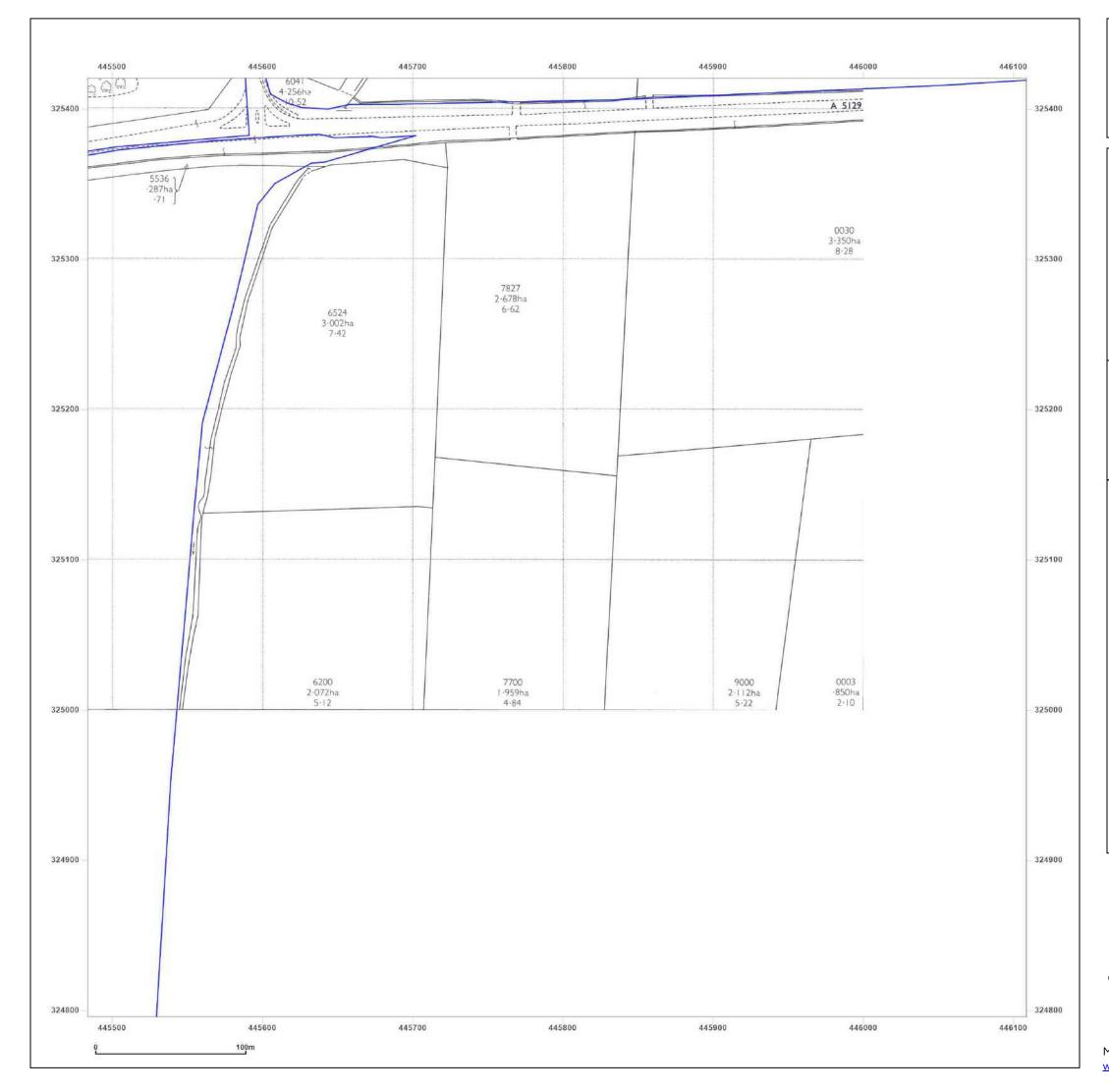




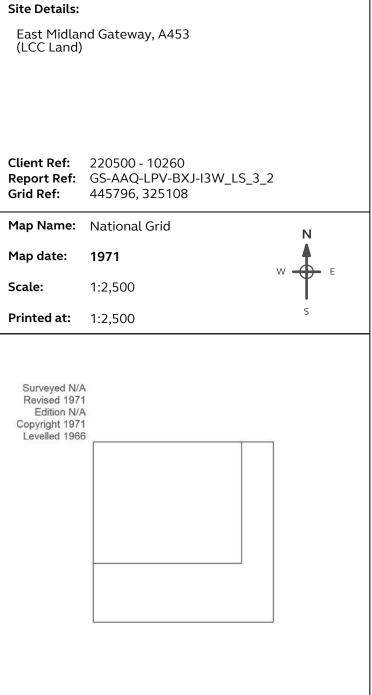
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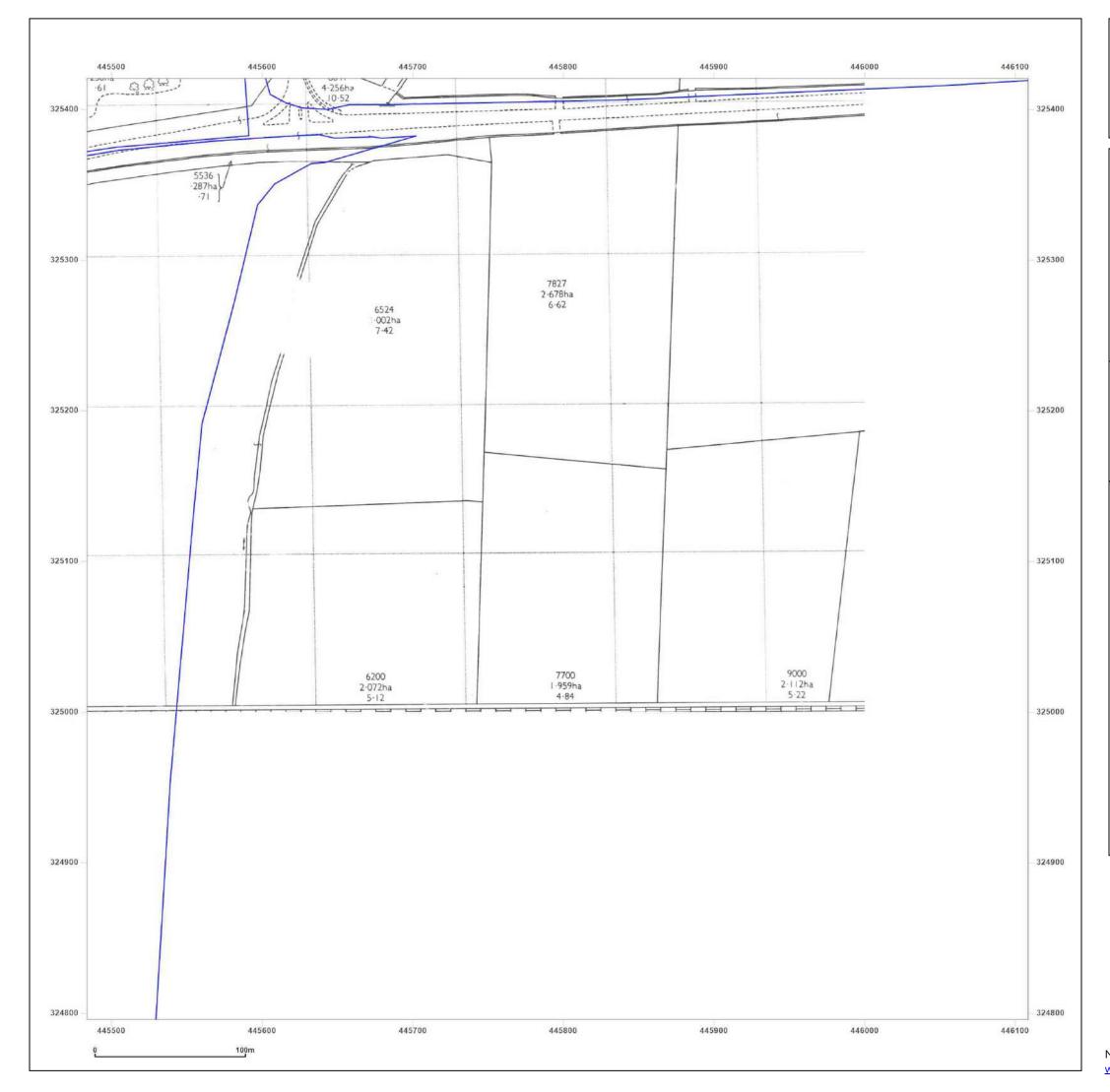




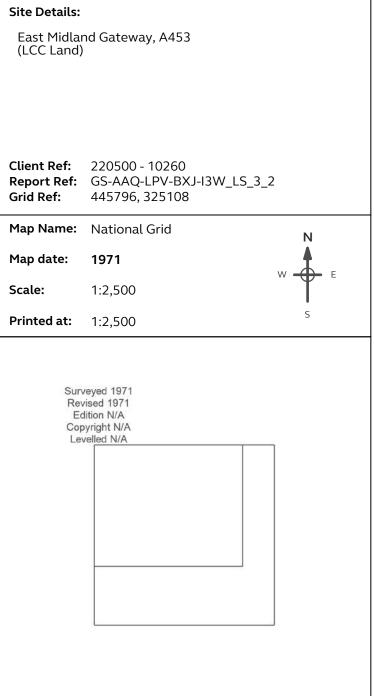
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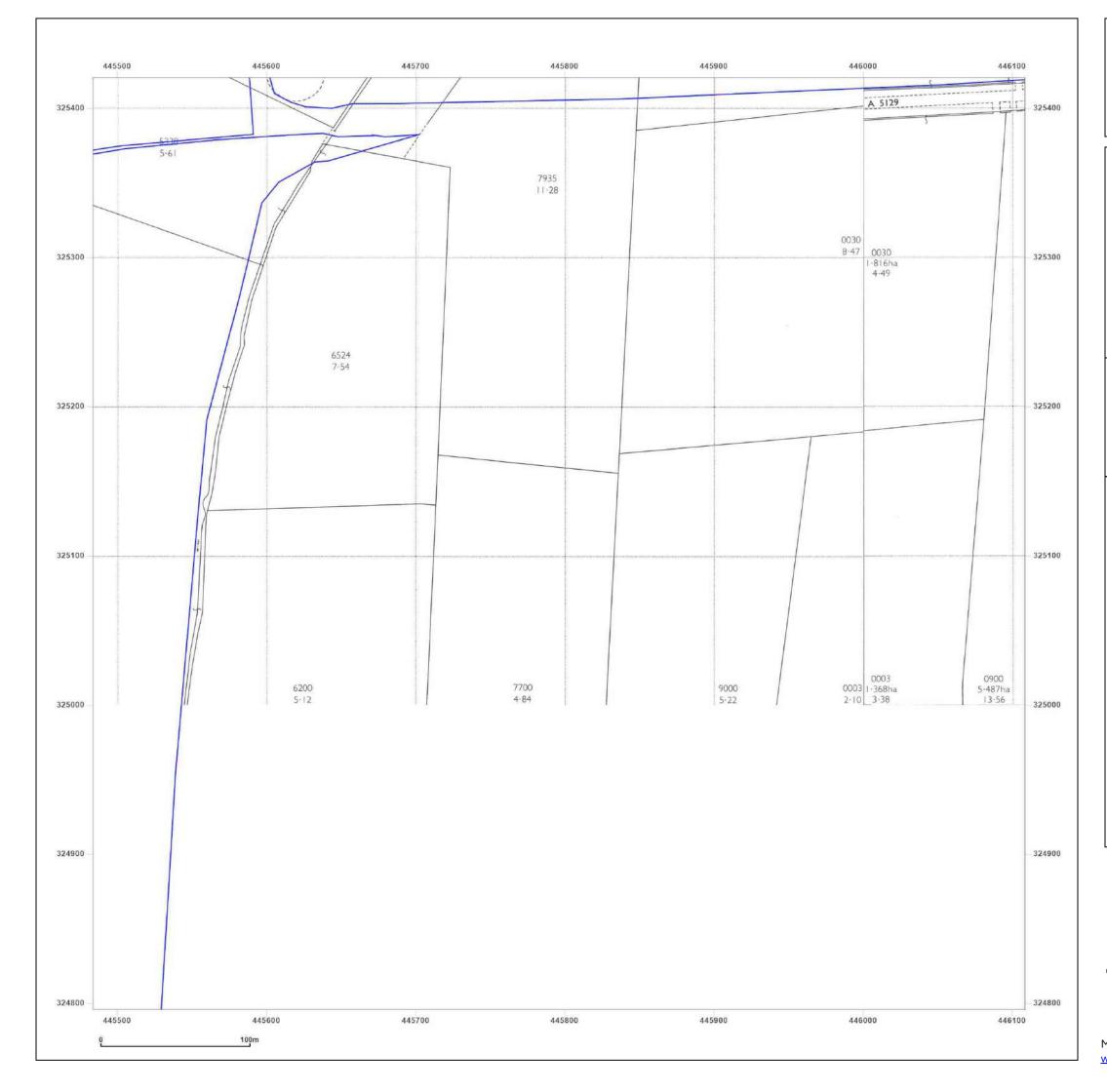




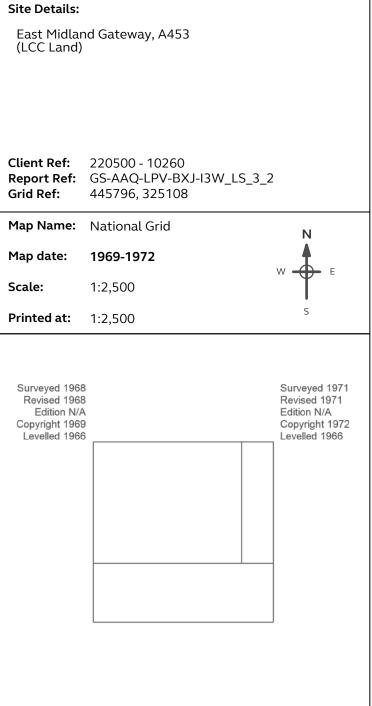
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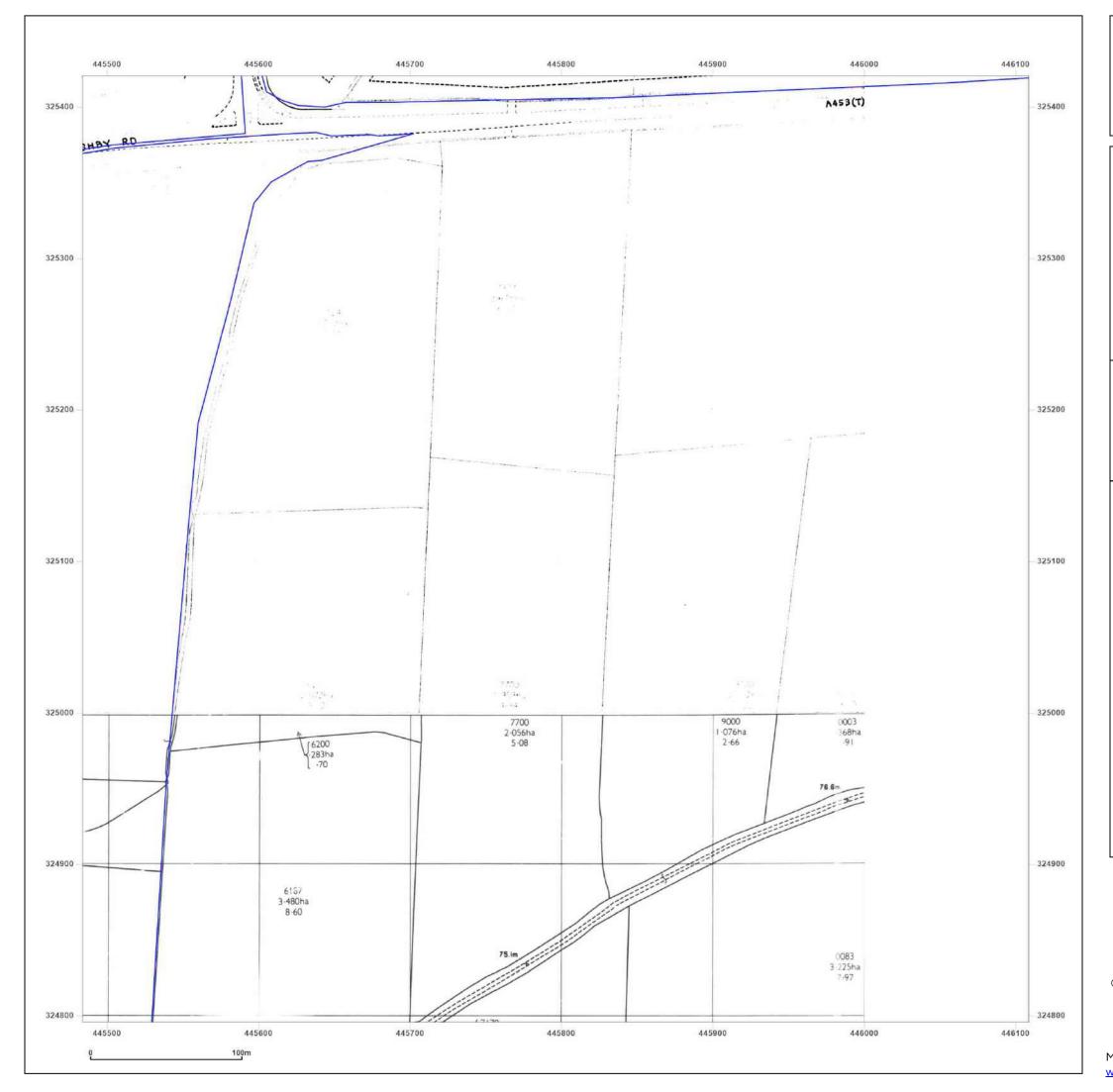




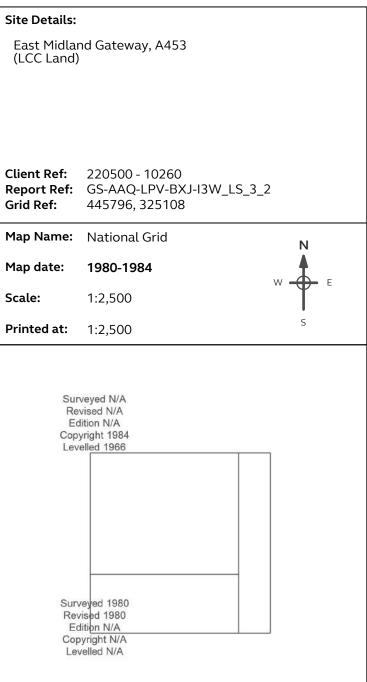
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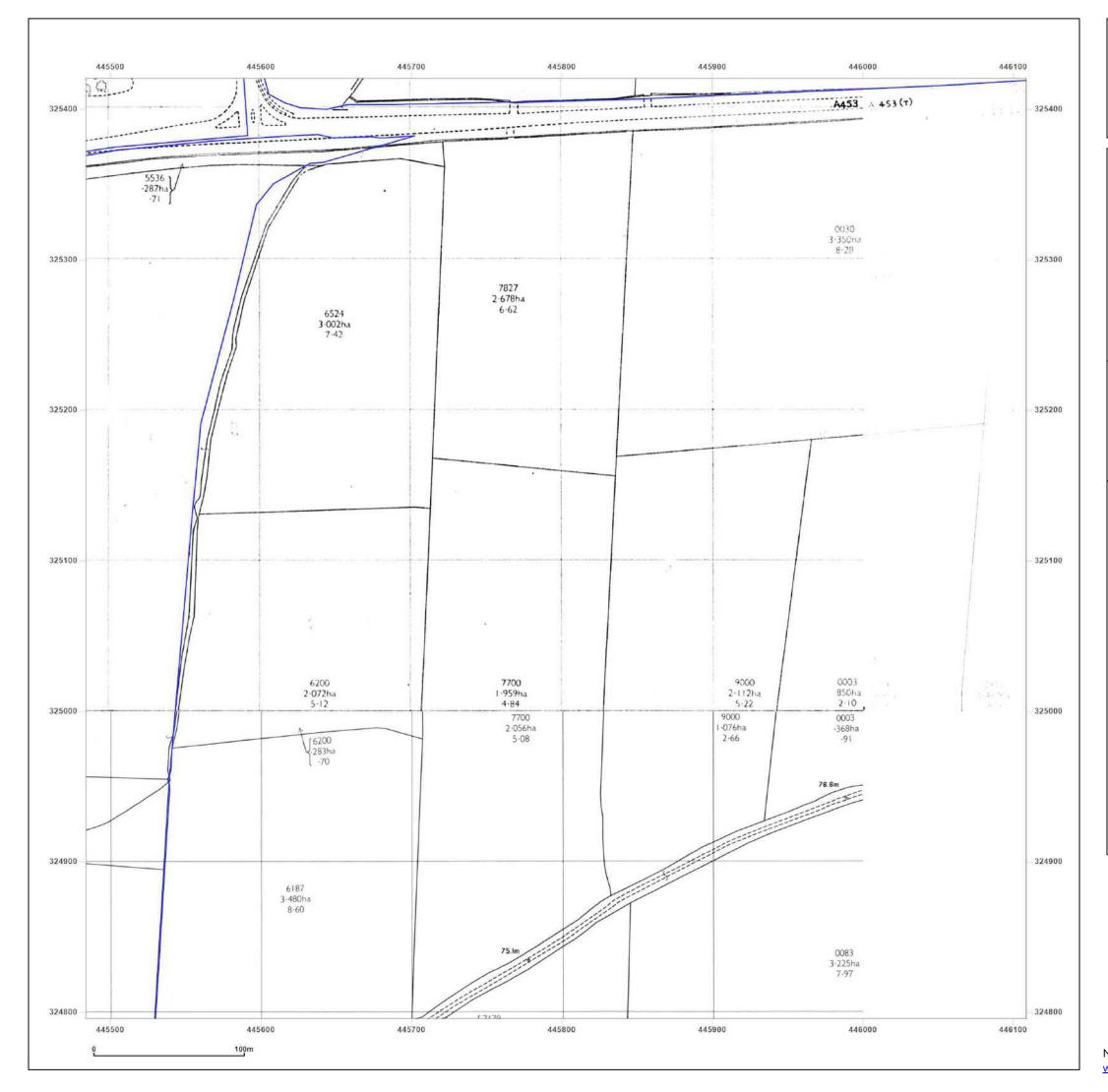




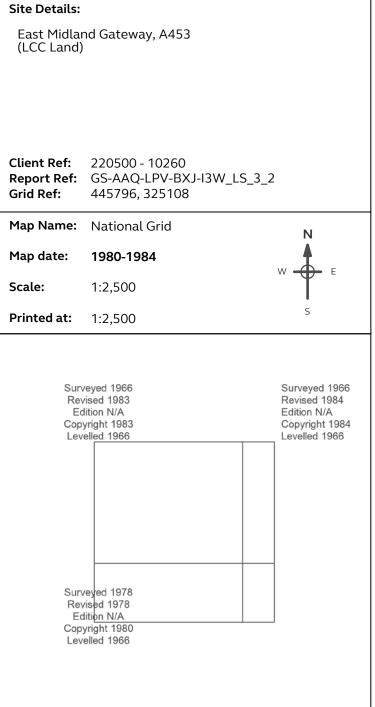
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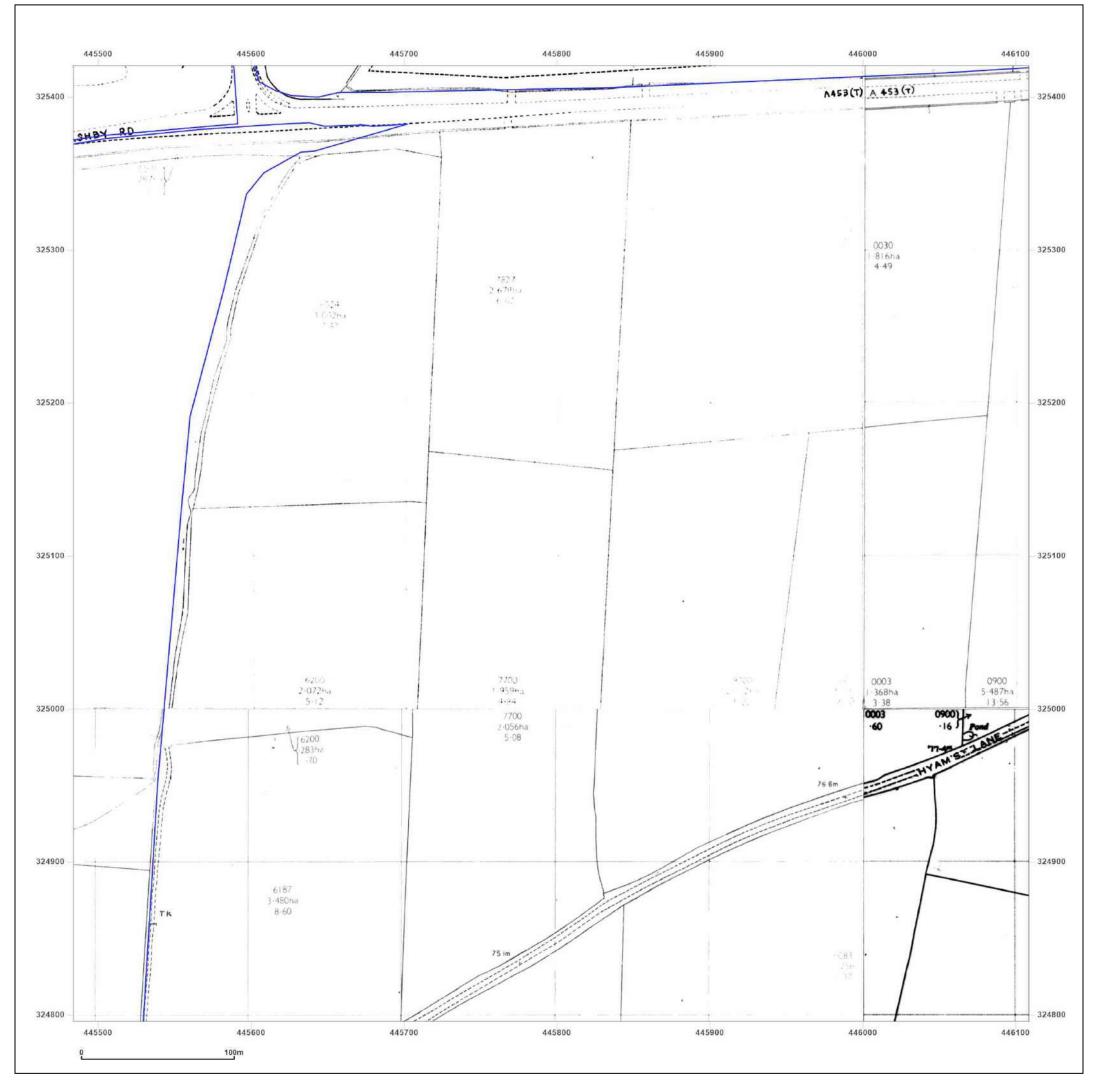




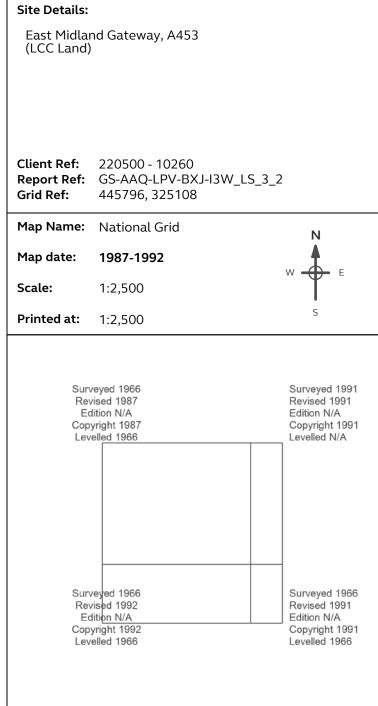
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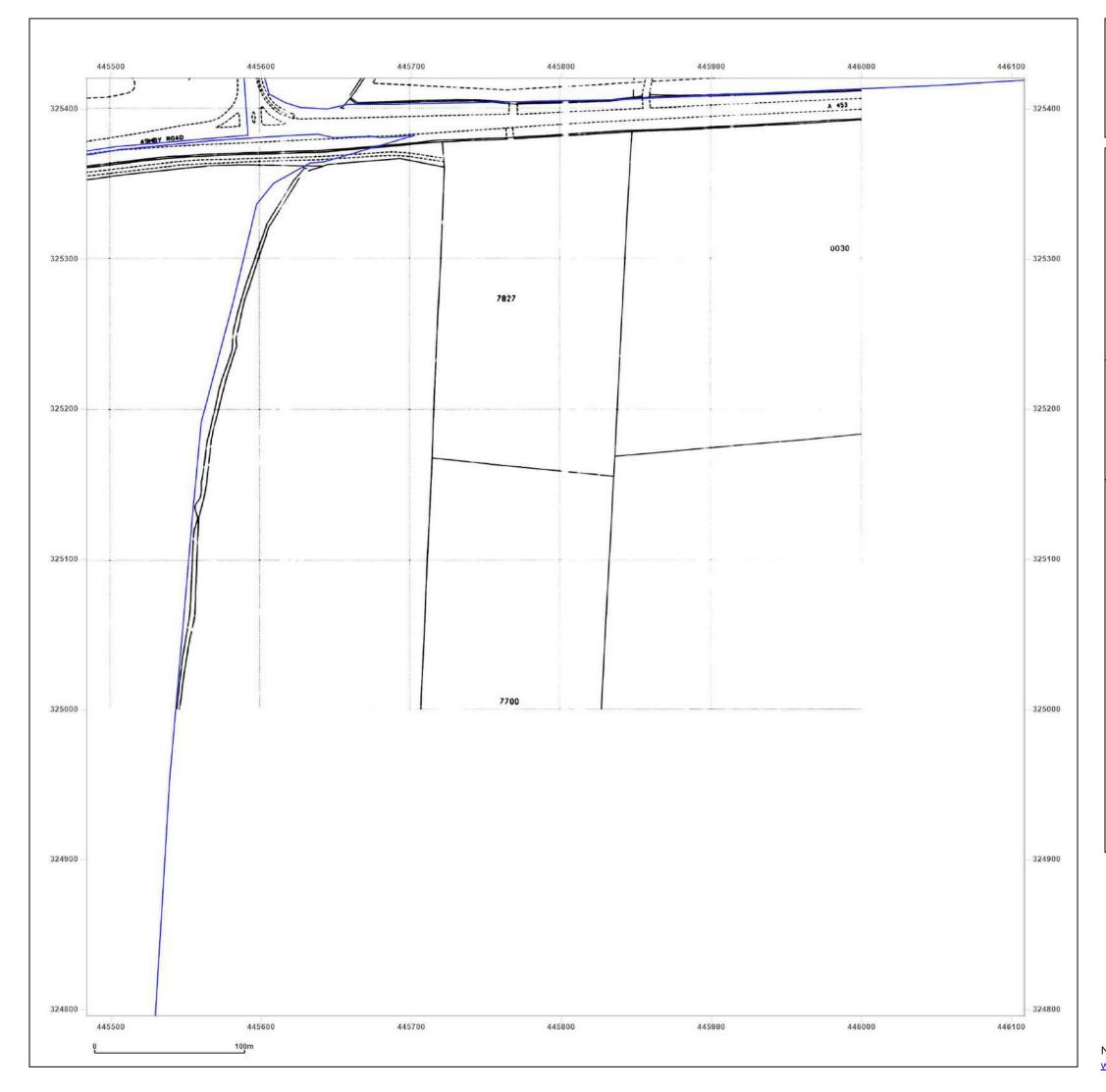




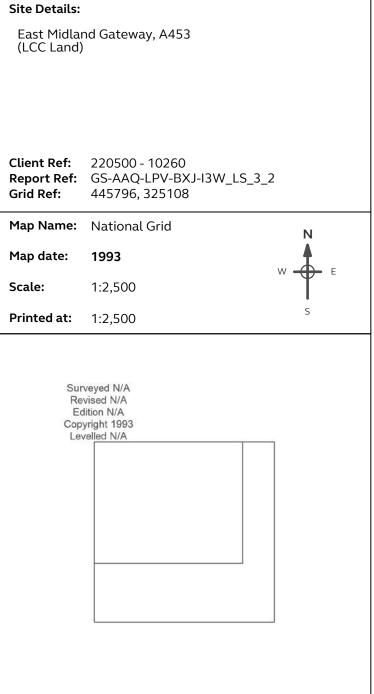
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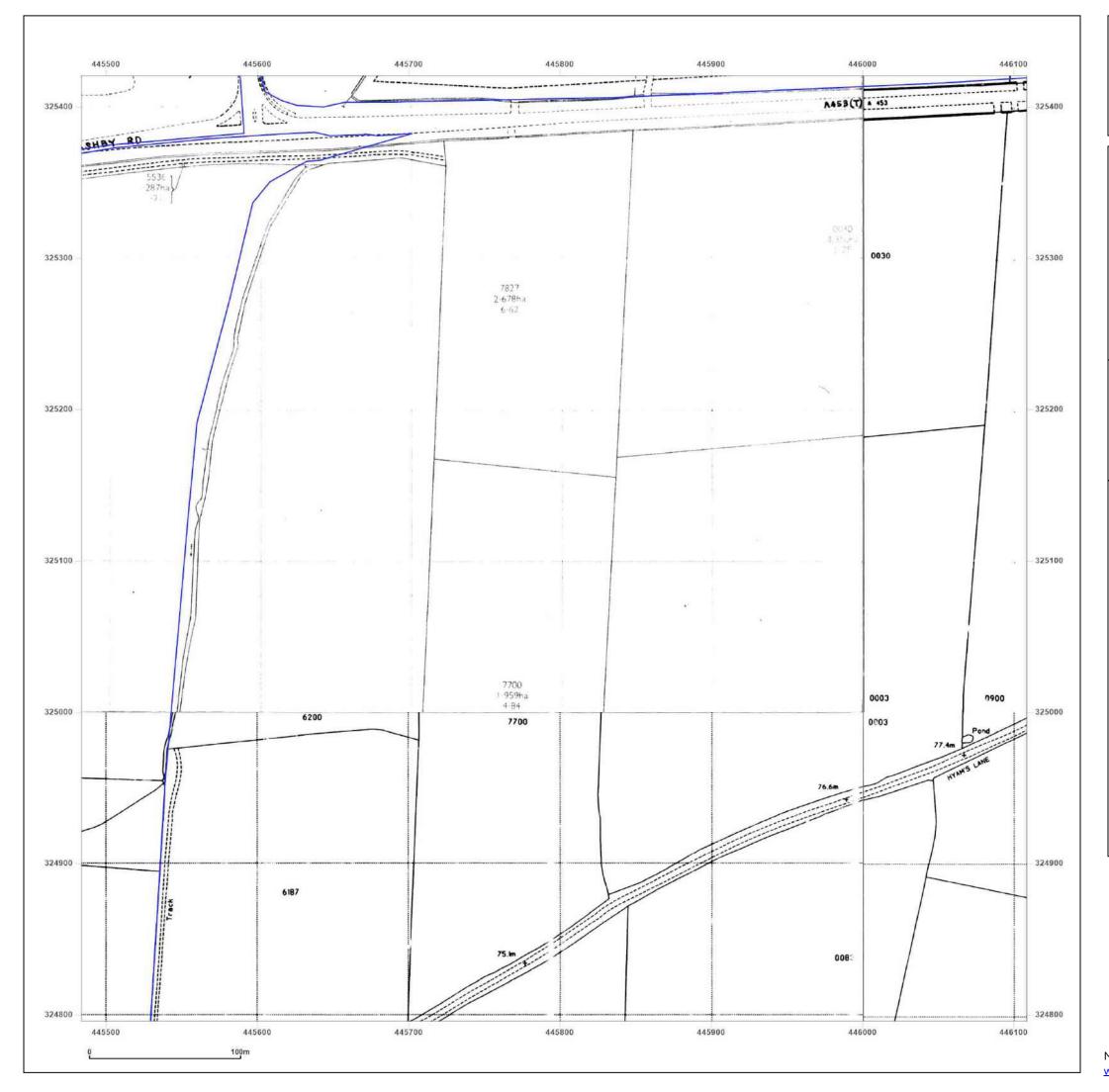




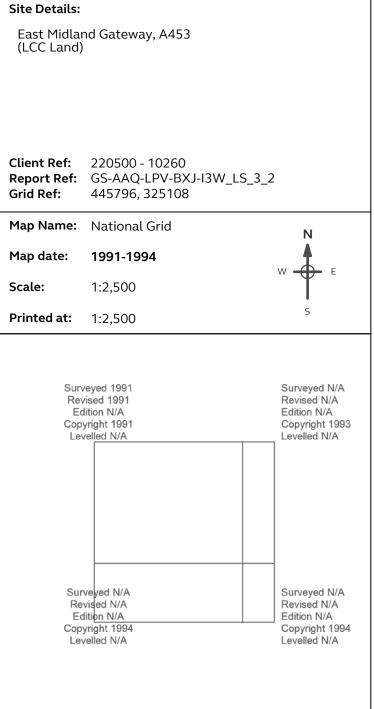
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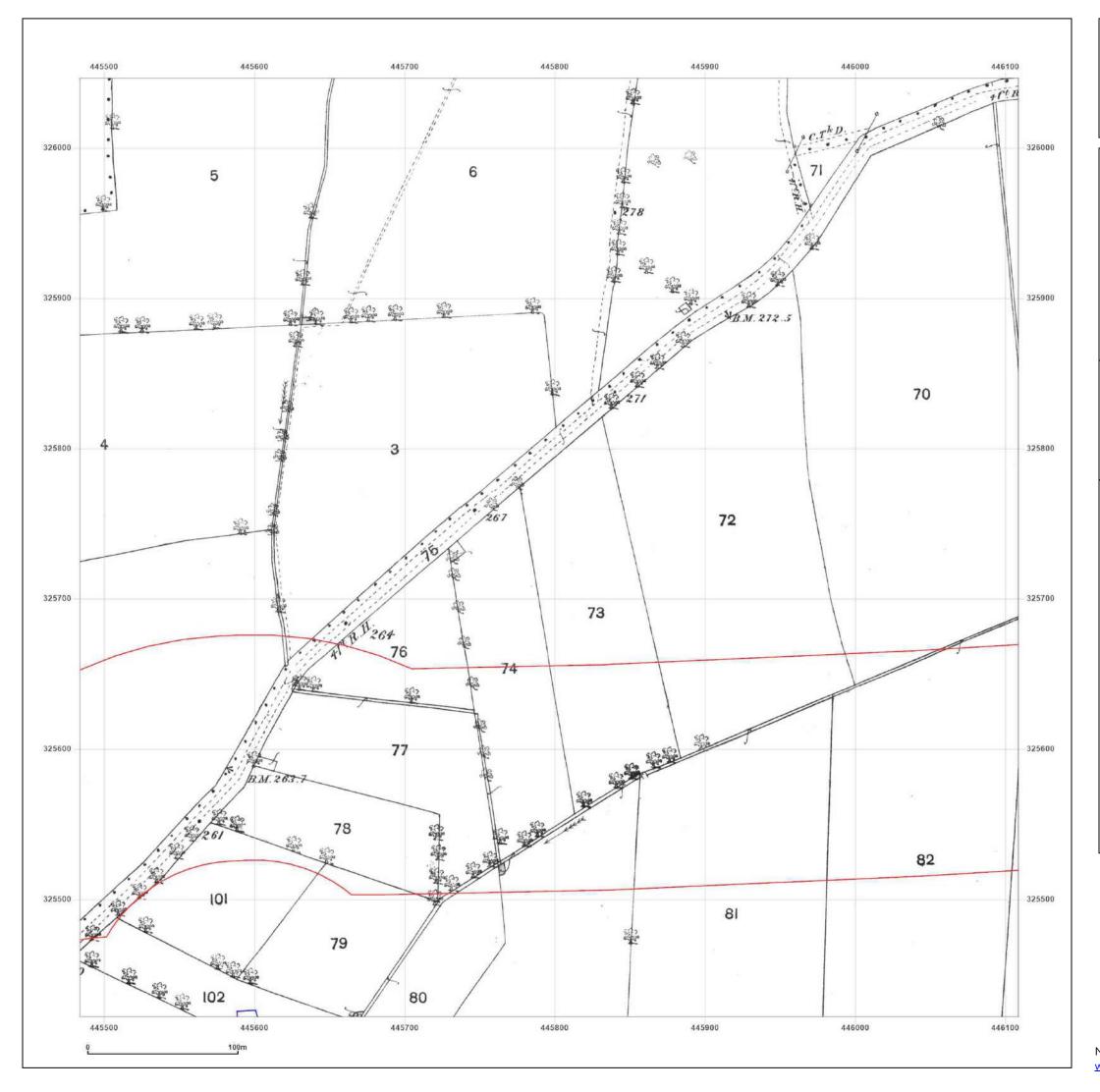




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East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

**Report Ref:** GS-AAQ-LPV-BXJ-I3W\_LS\_3\_3

**Grid Ref:** 445796, 325734

Map Name: County Series

Map date: 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500

Surveyed 1884 Revised 1884 Edition N/A Copyright N/A Levelled N/A

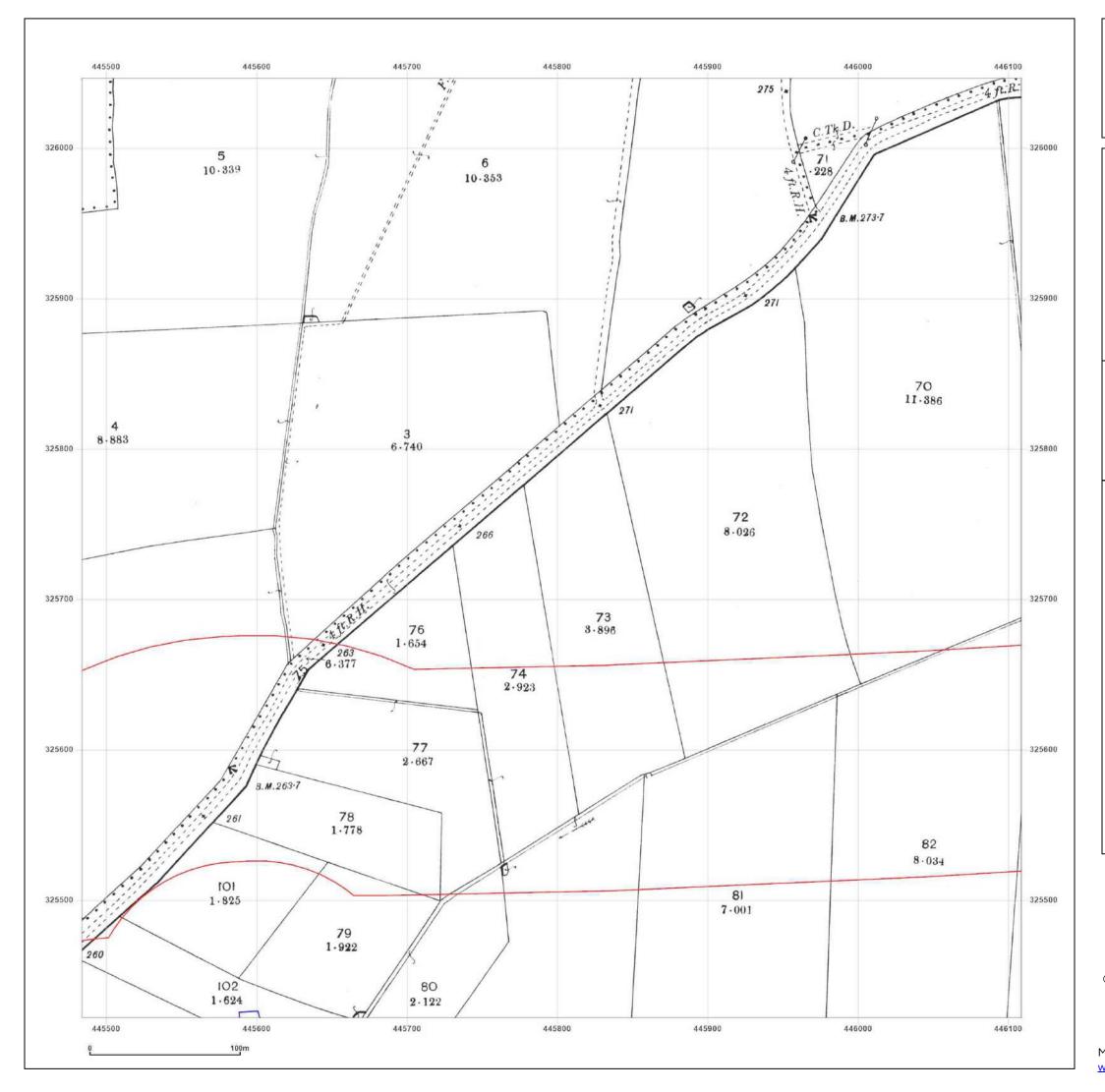


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East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

**Report Ref:** GS-AAQ-LPV-BXJ-I3W\_LS\_3\_3

445796, 325734 **Grid Ref:** 

Map Name: County Series

Map date: 1903

Scale: 1:2,500

**Printed at:** 1:2,500

Surveyed 1903 Revised 1903 Edition N/A Copyright N/A Levelled N/A

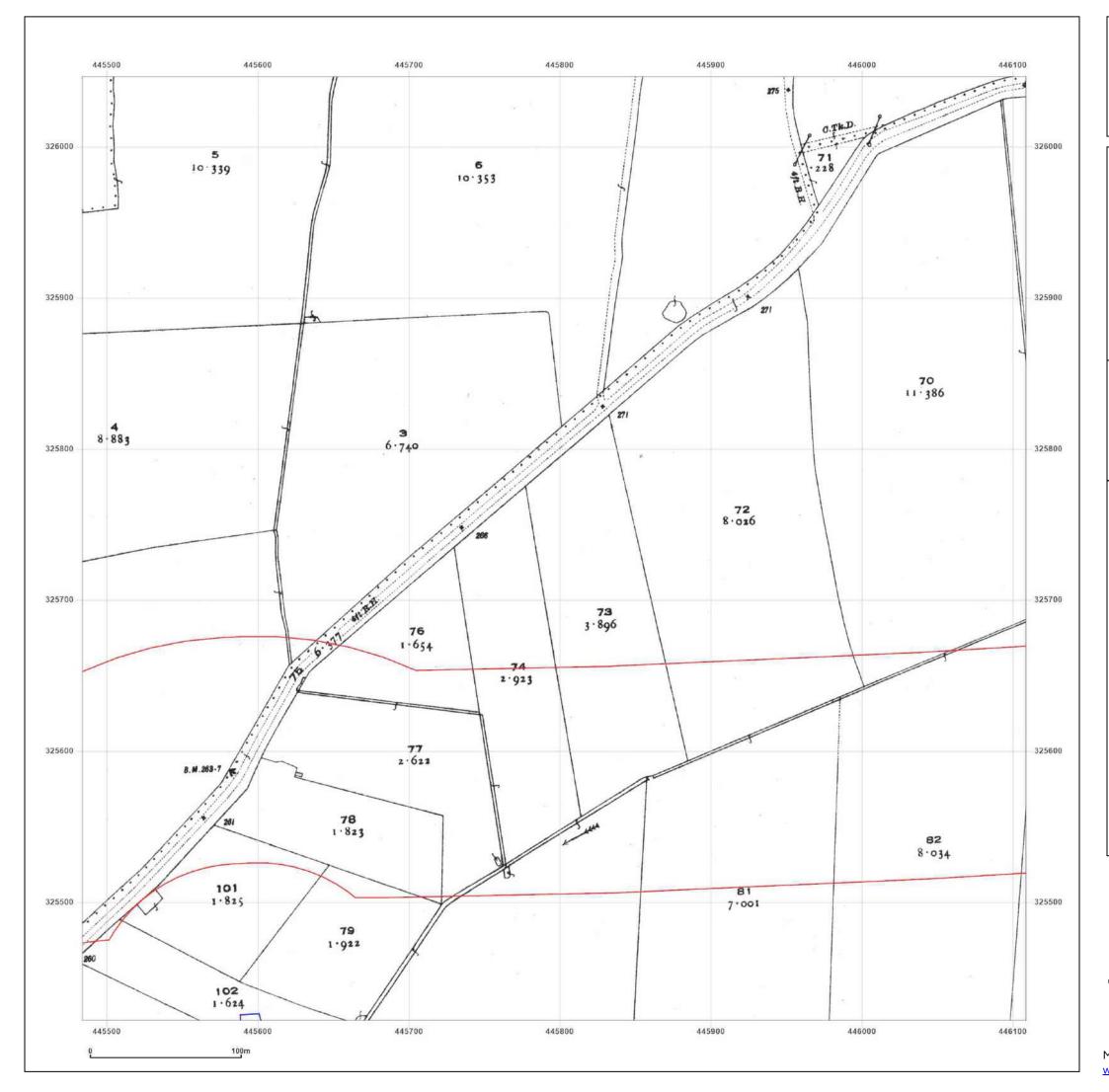


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East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

**Report Ref:** GS-AAQ-LPV-BXJ-I3W\_LS\_3\_3

**Grid Ref:** 445796, 325734

Map Name: County Series

Map date: 1921

**Scale:** 1:2,500

**Printed at:** 1:2,500

Surveyed 1921 Revised 1921 Edition N/A Copyright N/A Levelled N/A

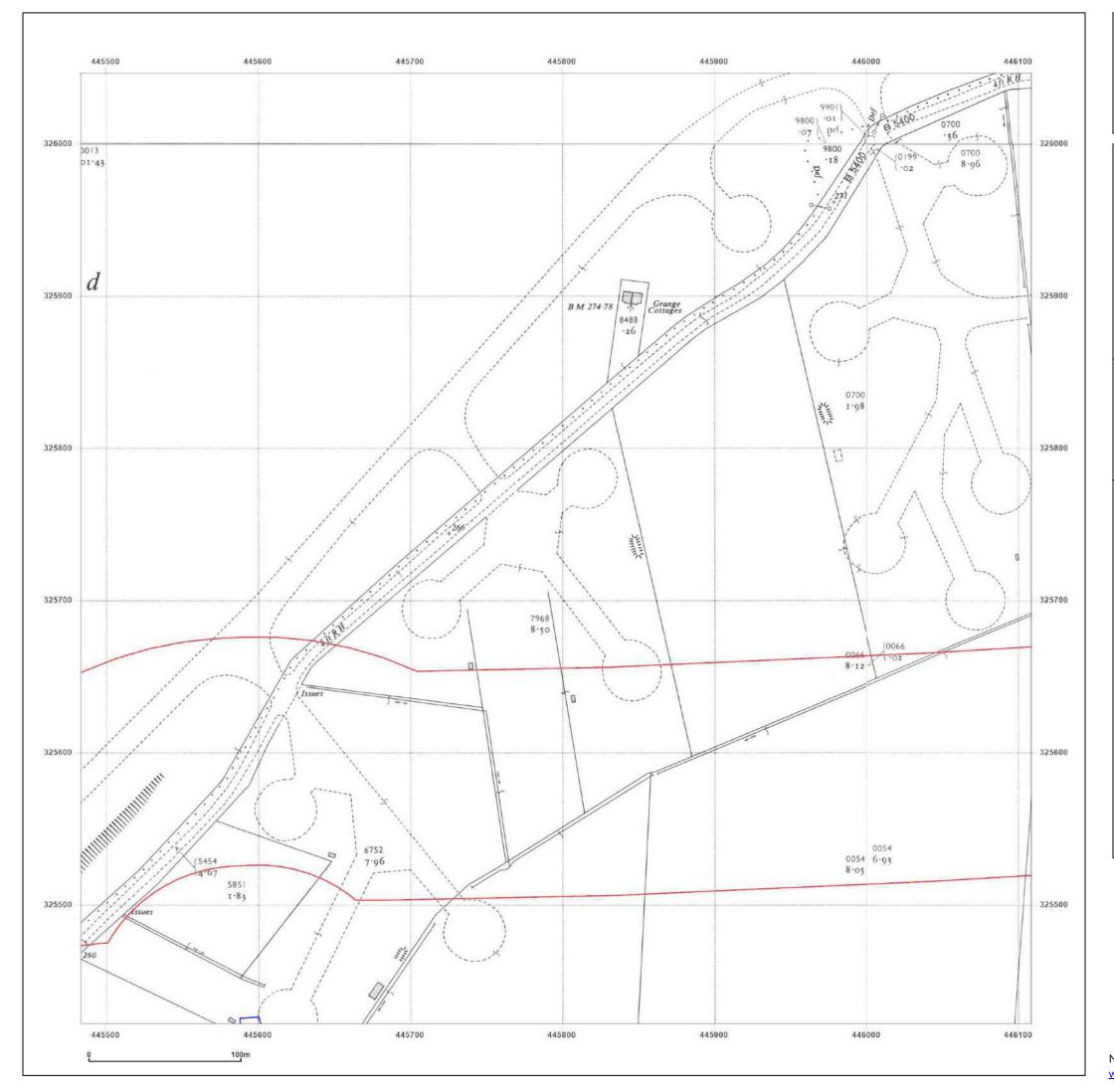


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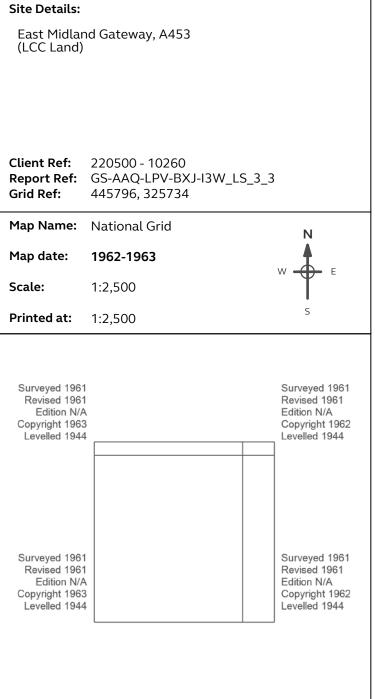
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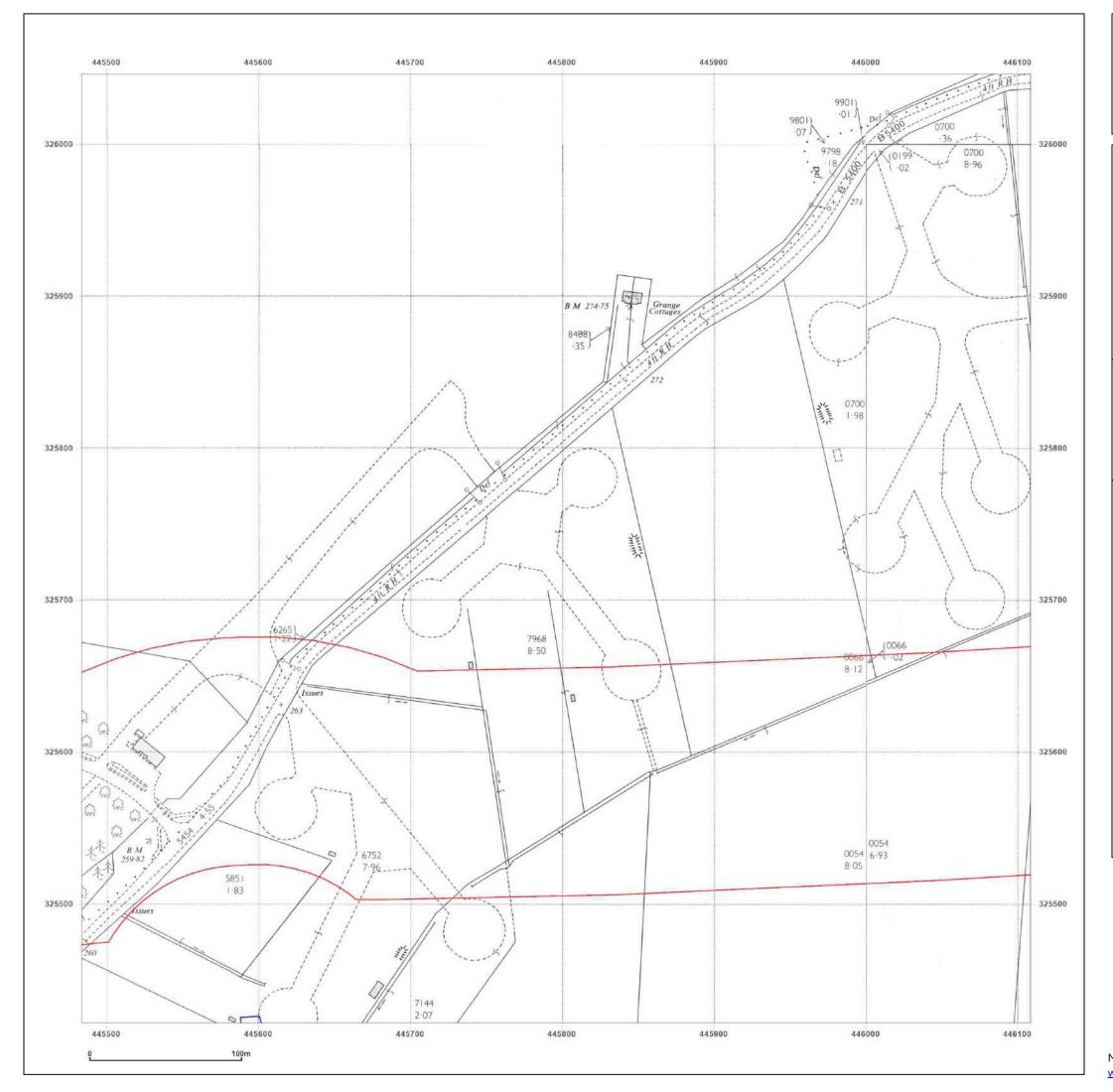




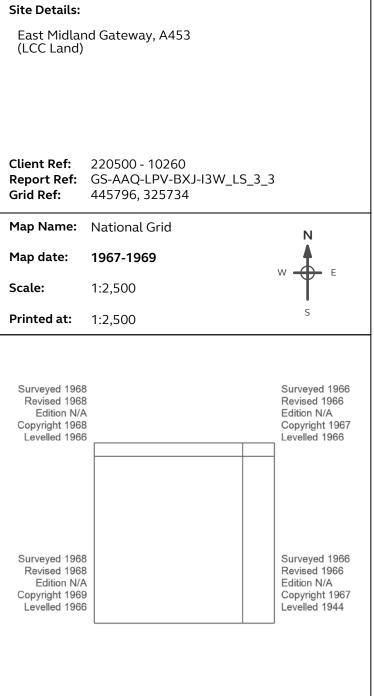
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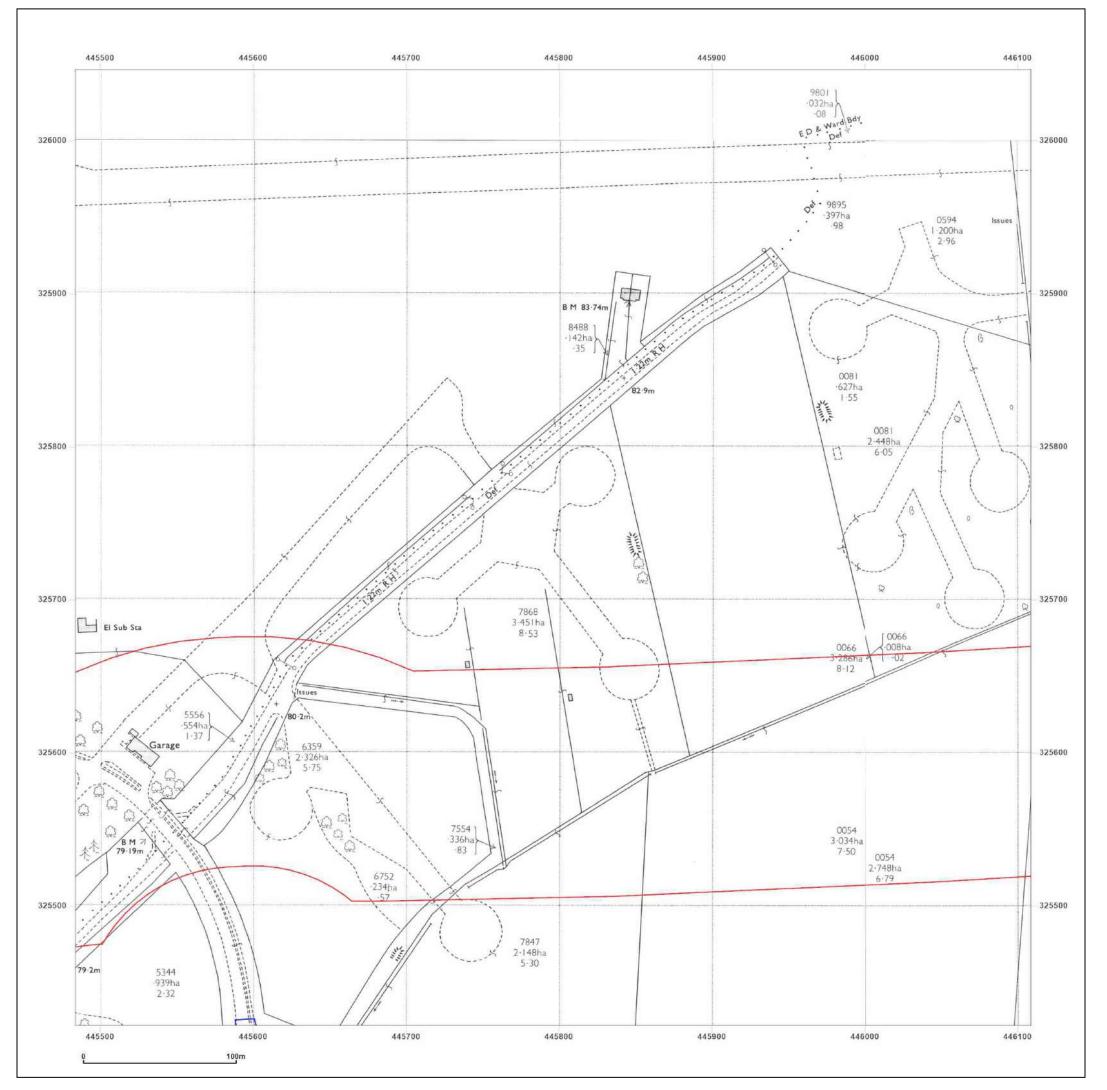




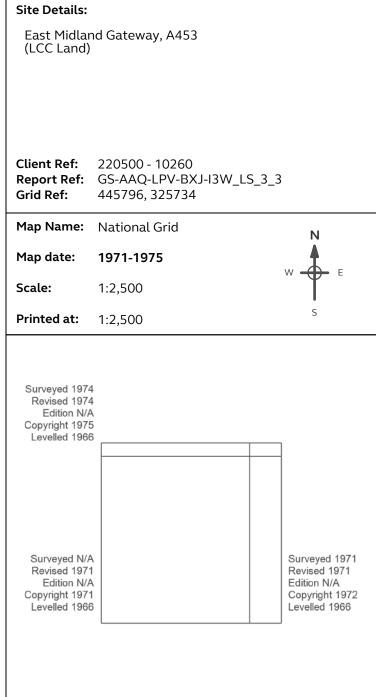
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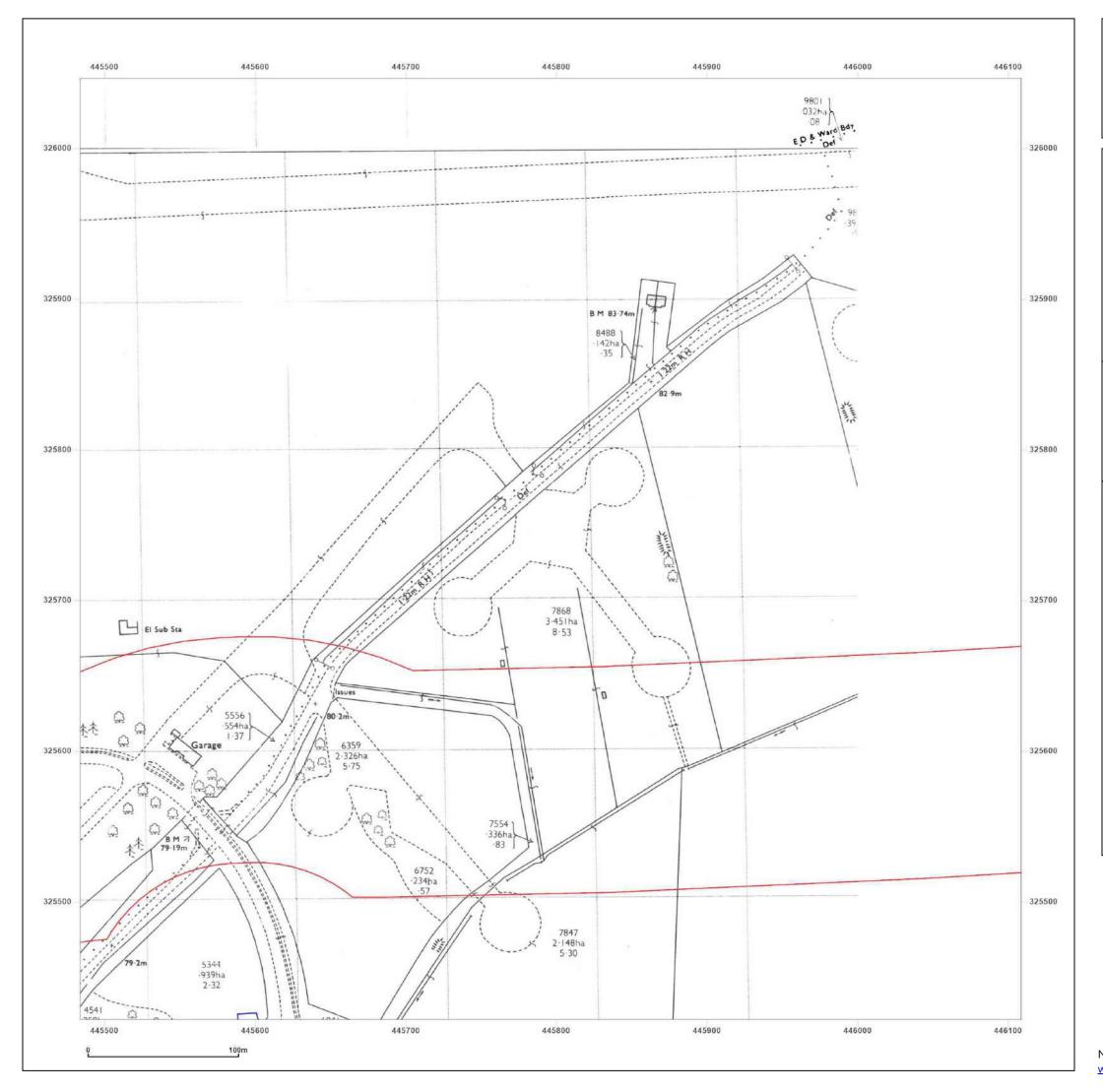




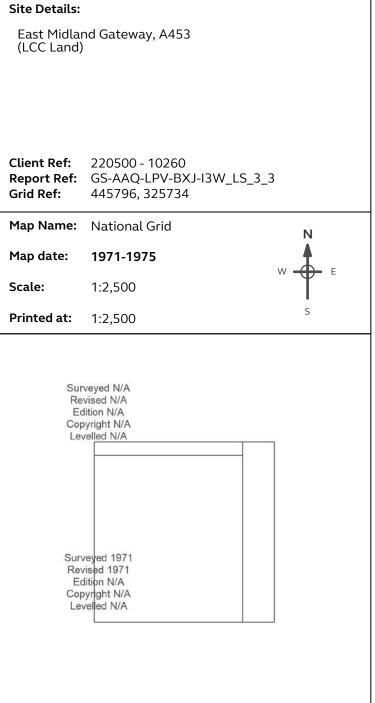
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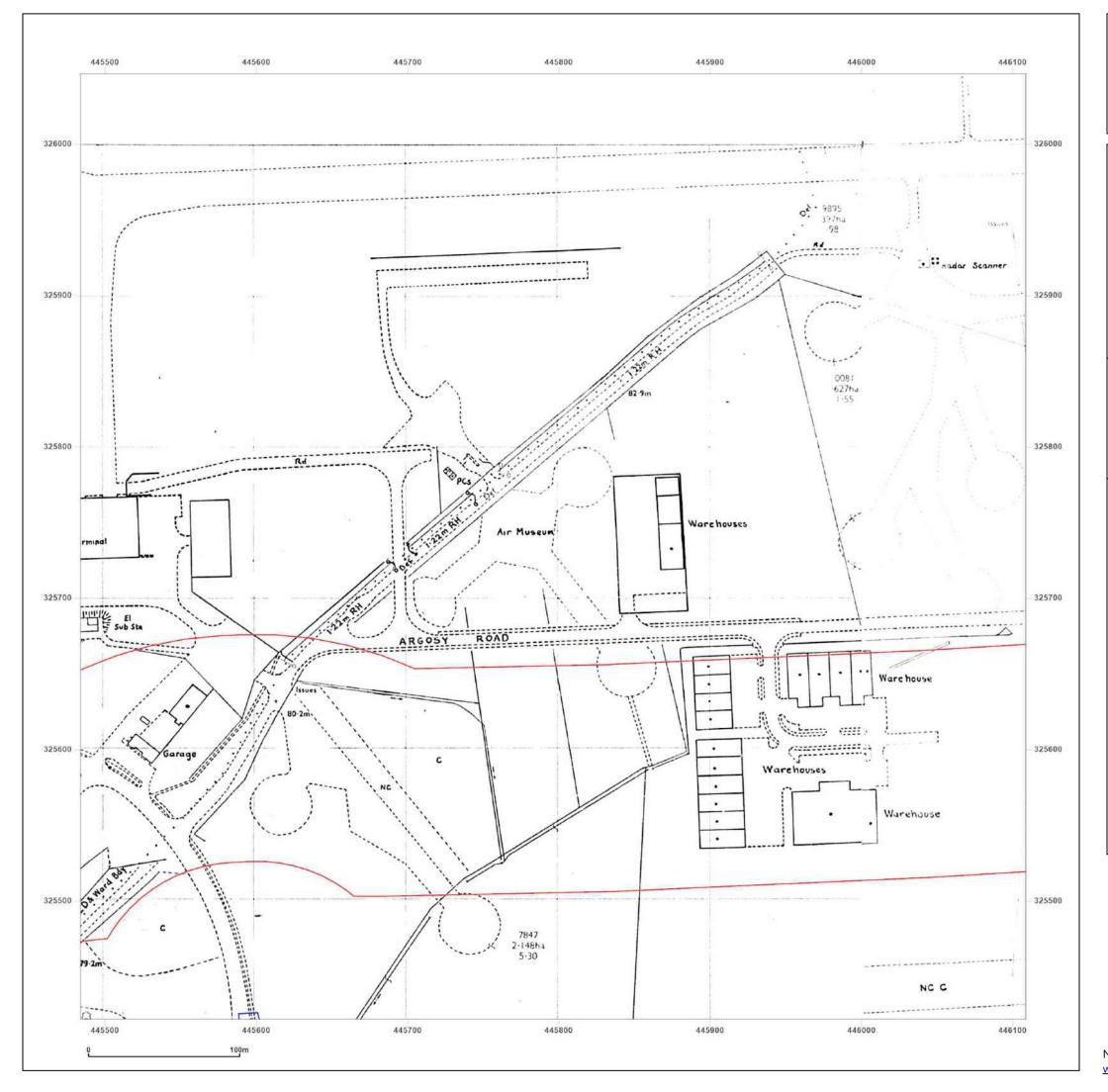




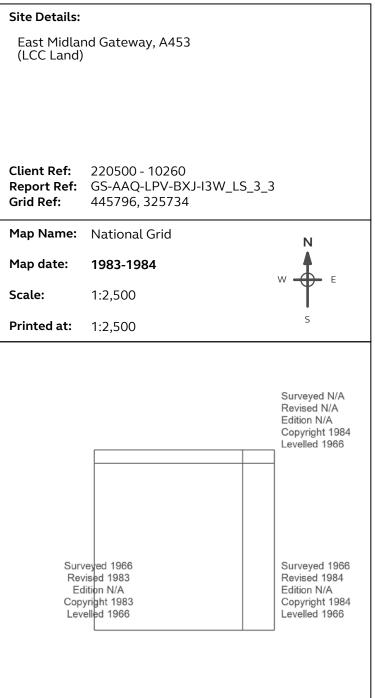
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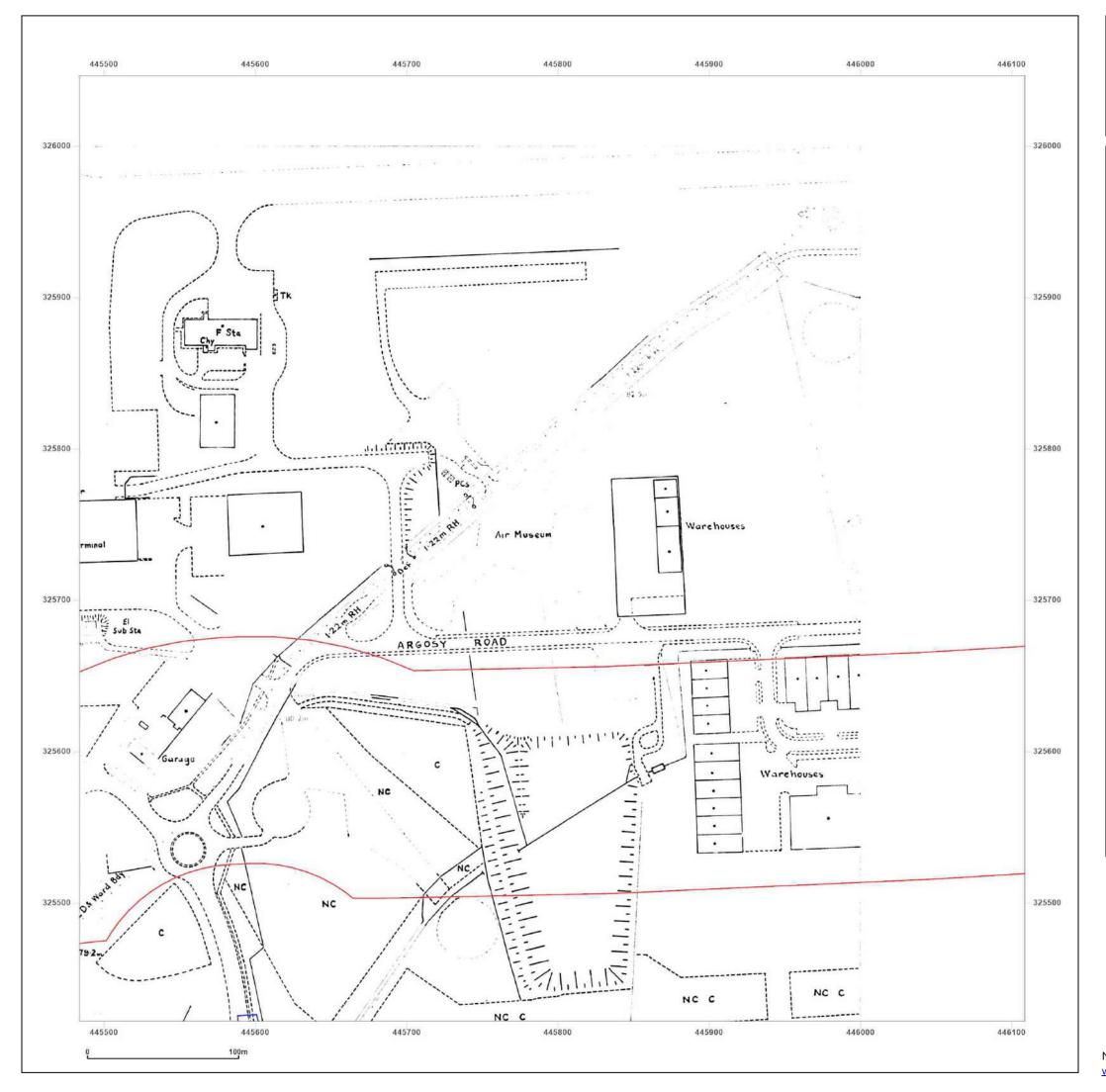




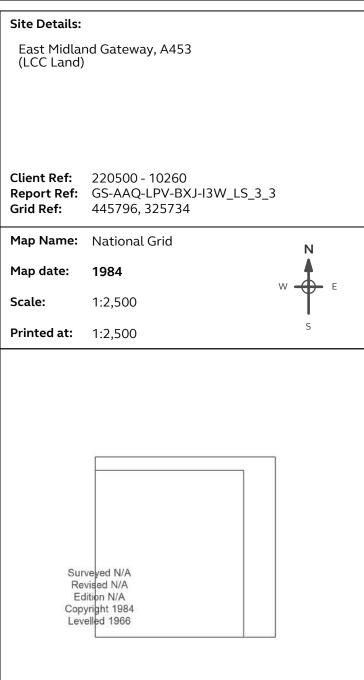
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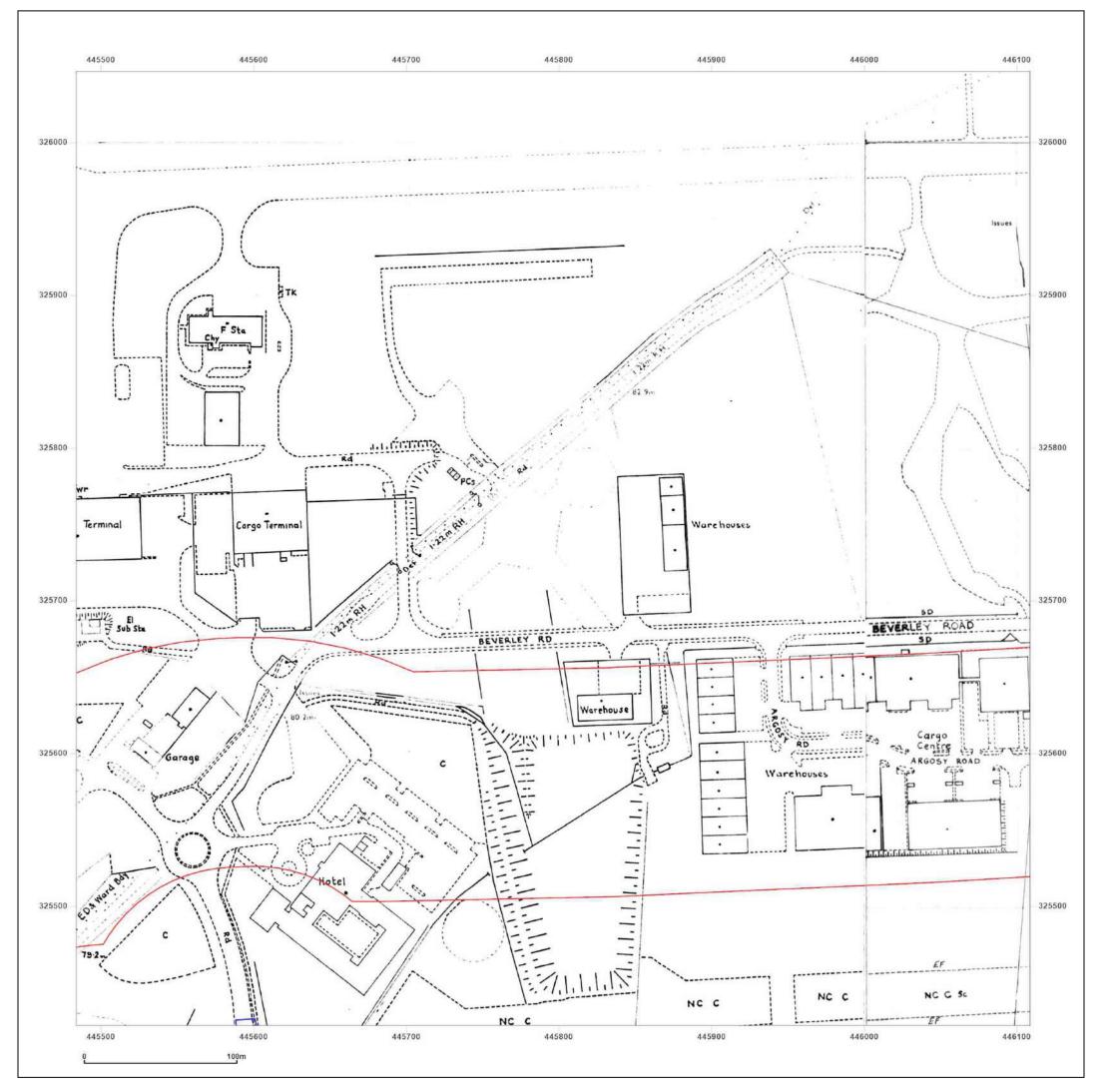




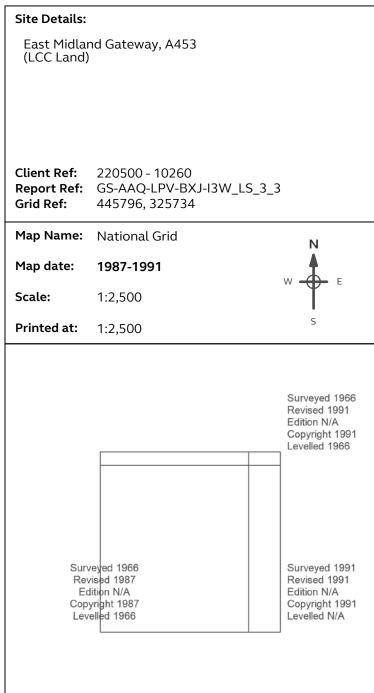
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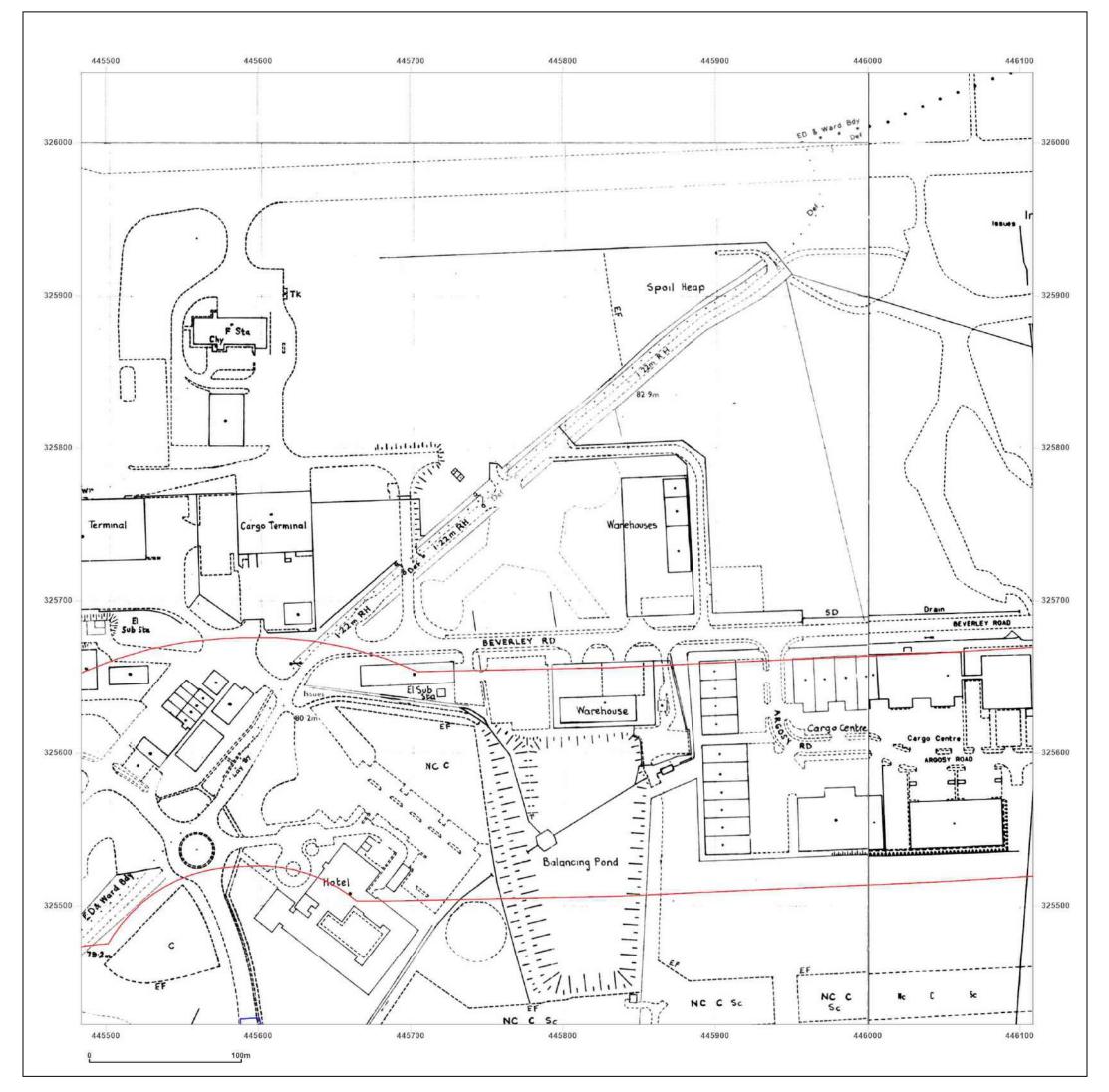




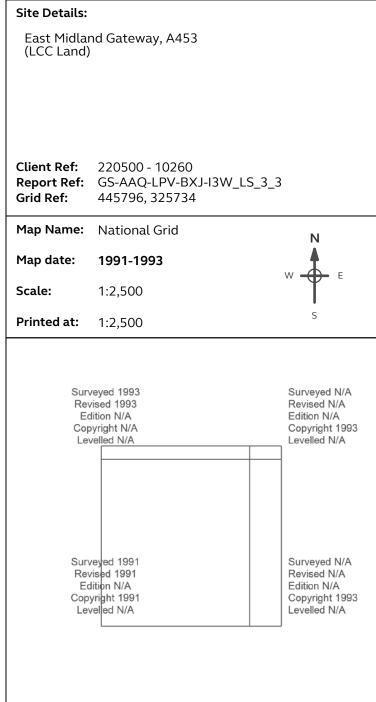
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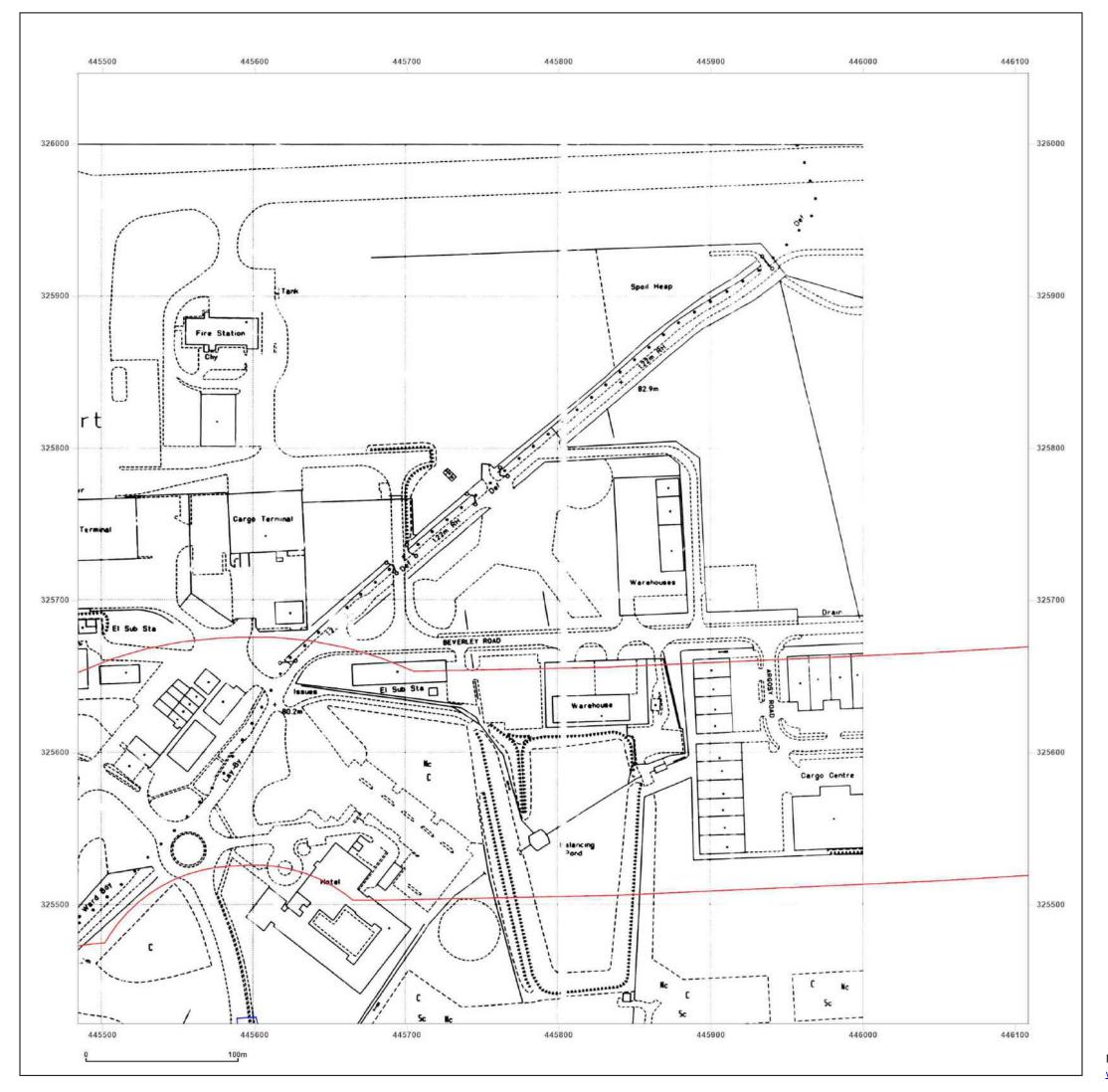




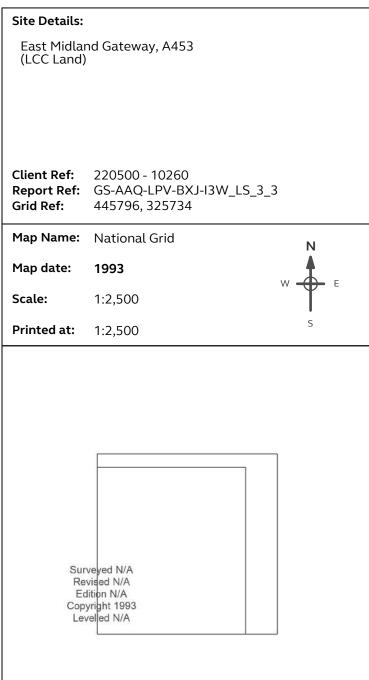
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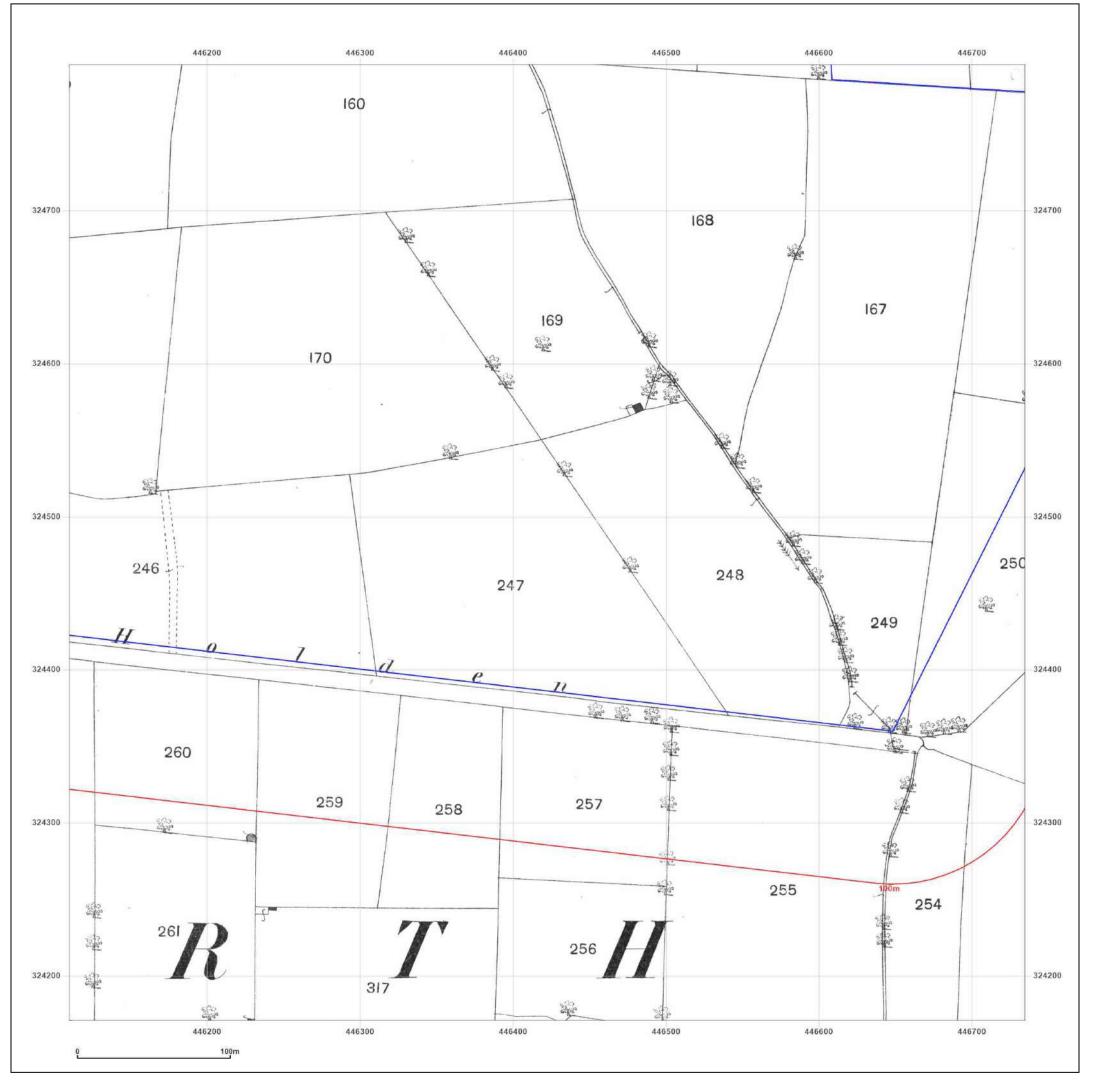




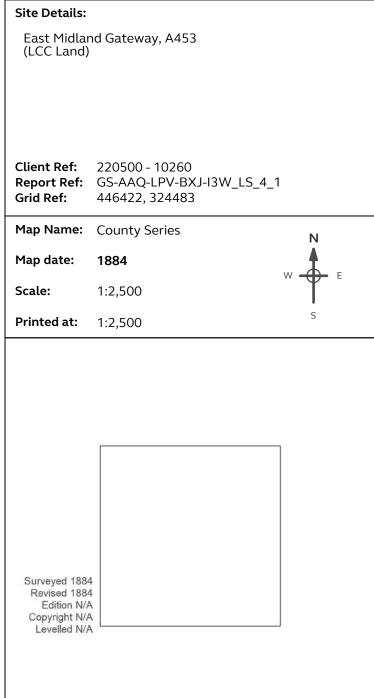
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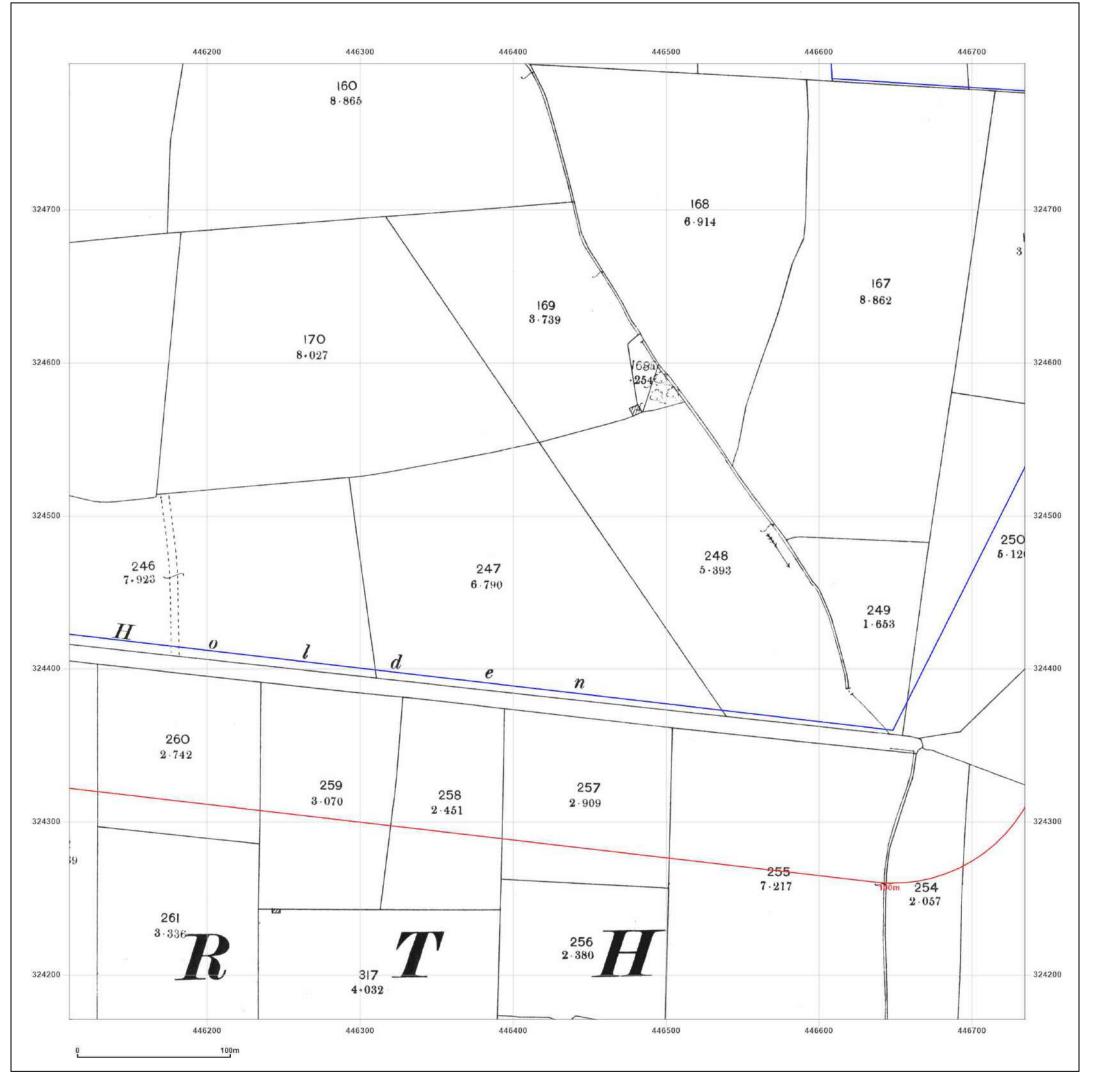




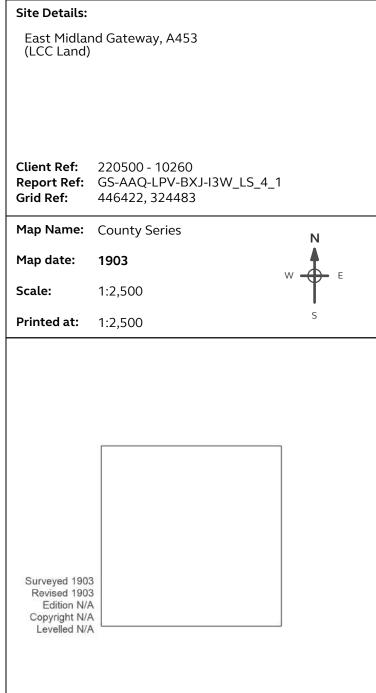
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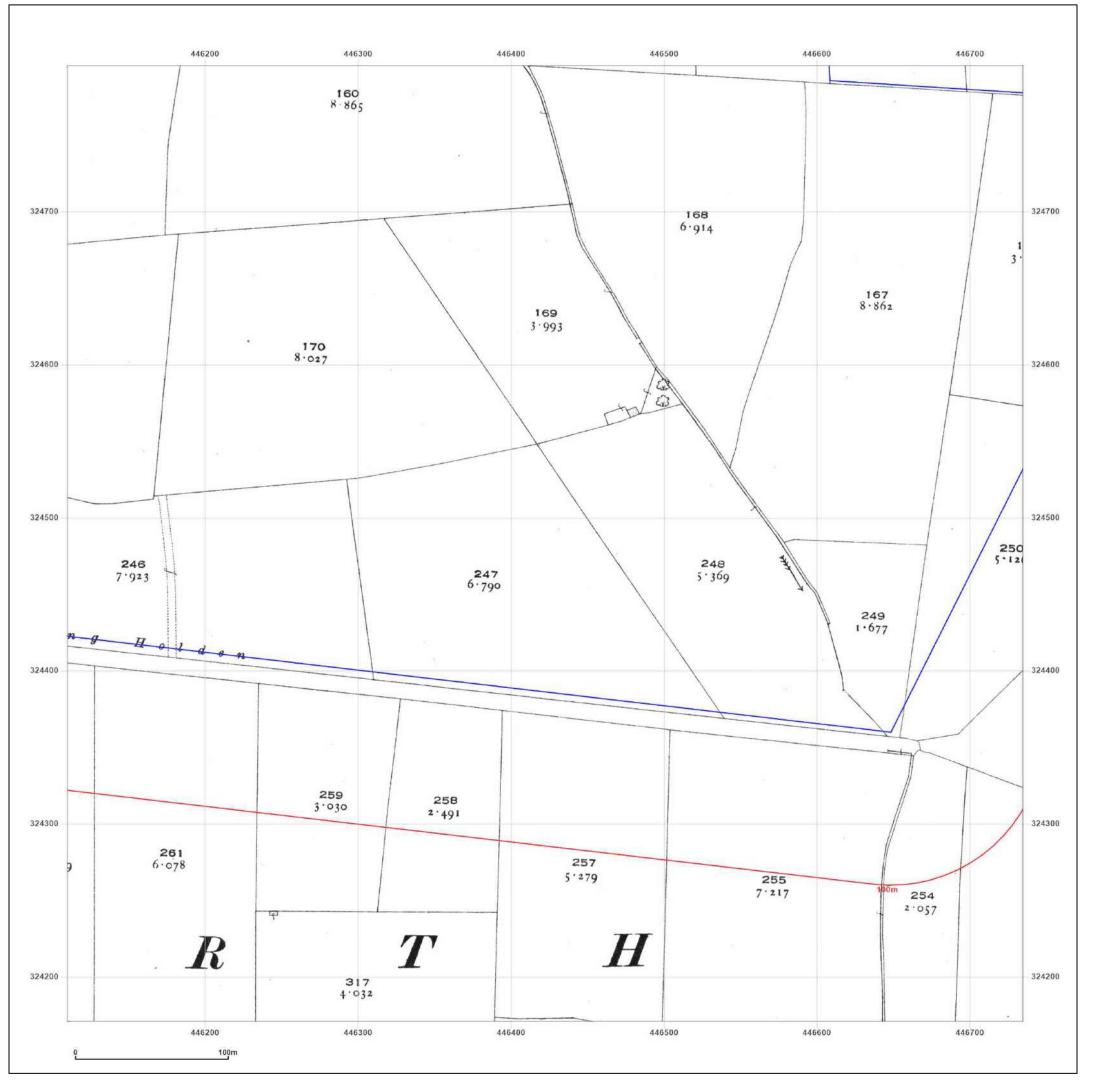




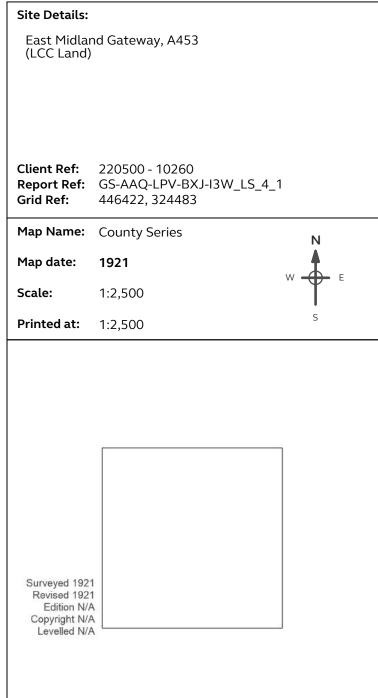
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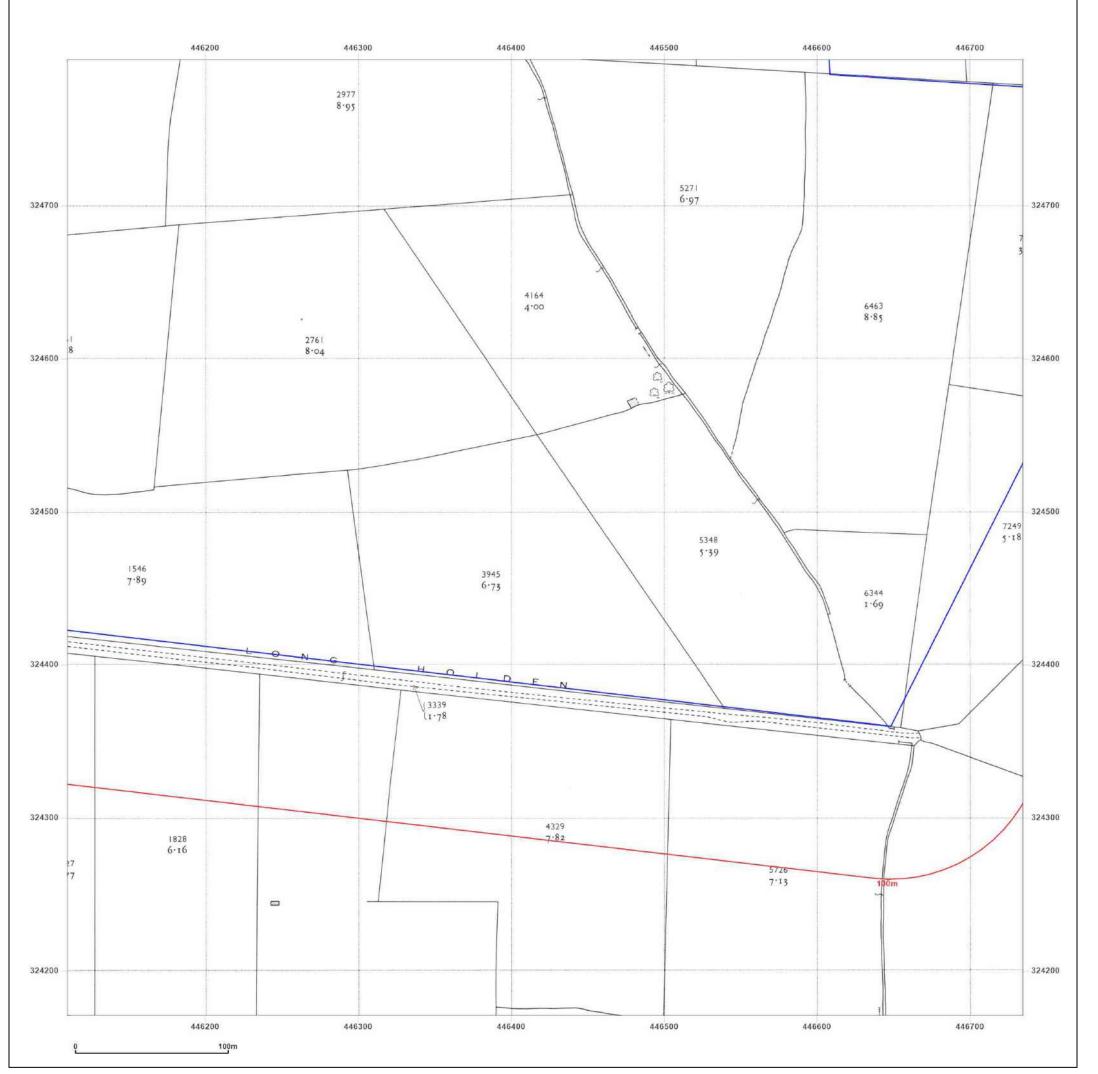




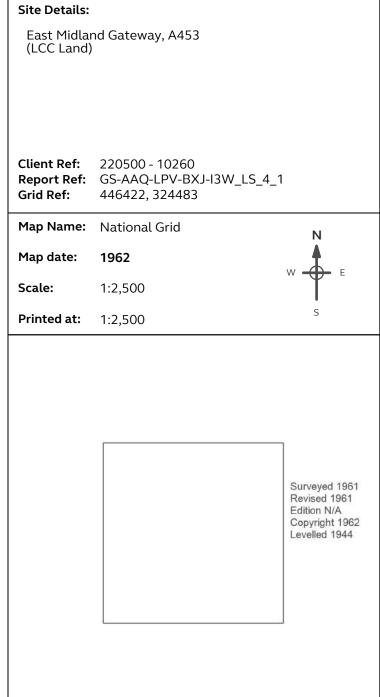
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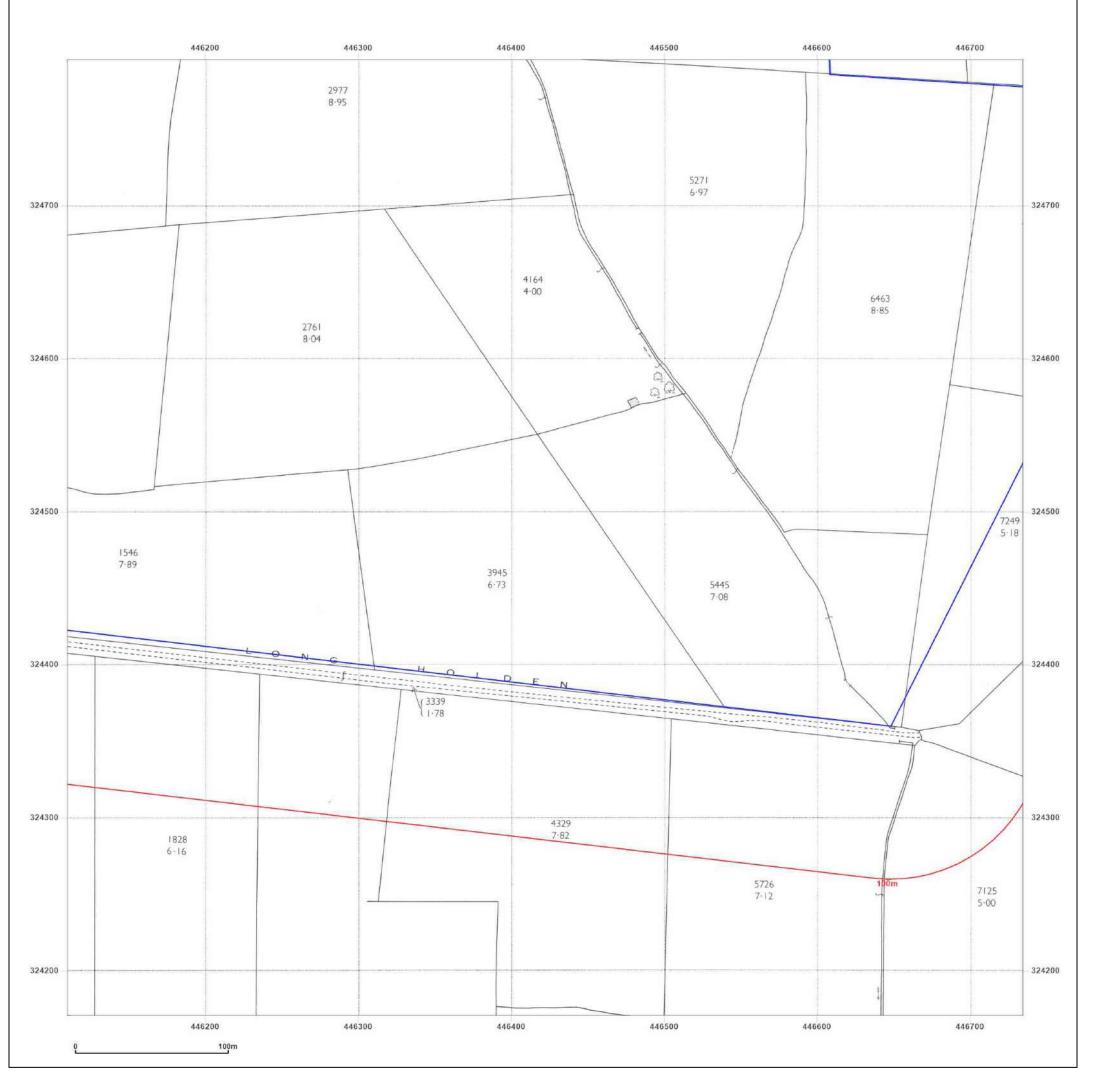




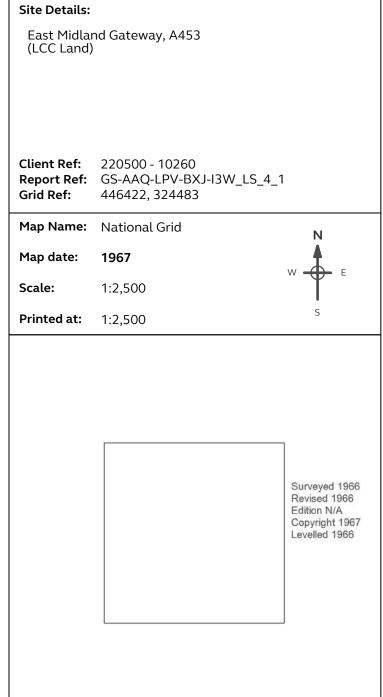
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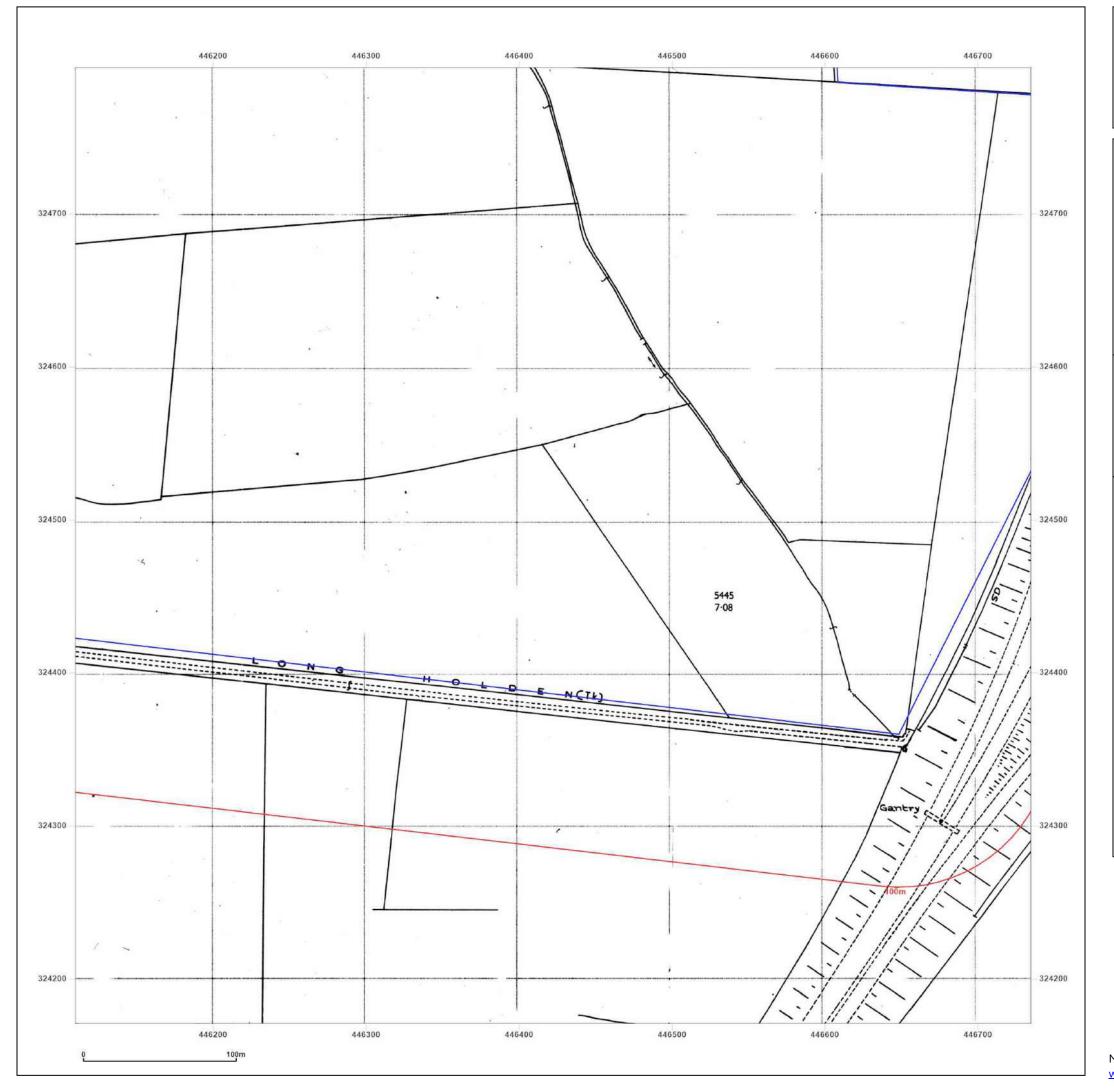




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Production date: 13 December 2024

Map legend available at:





East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

**Report Ref:** GS-AAQ-LPV-BXJ-I3W\_LS\_4\_1

**Grid Ref:** 446422, 324483

Map Name: National Grid

Map date: 1991

**Scale:** 1:2,500

**Printed at:** 1:2,500

Surveyed 1966 Revised 1991 Edition N/A Copyright 1991 Levelled 1966

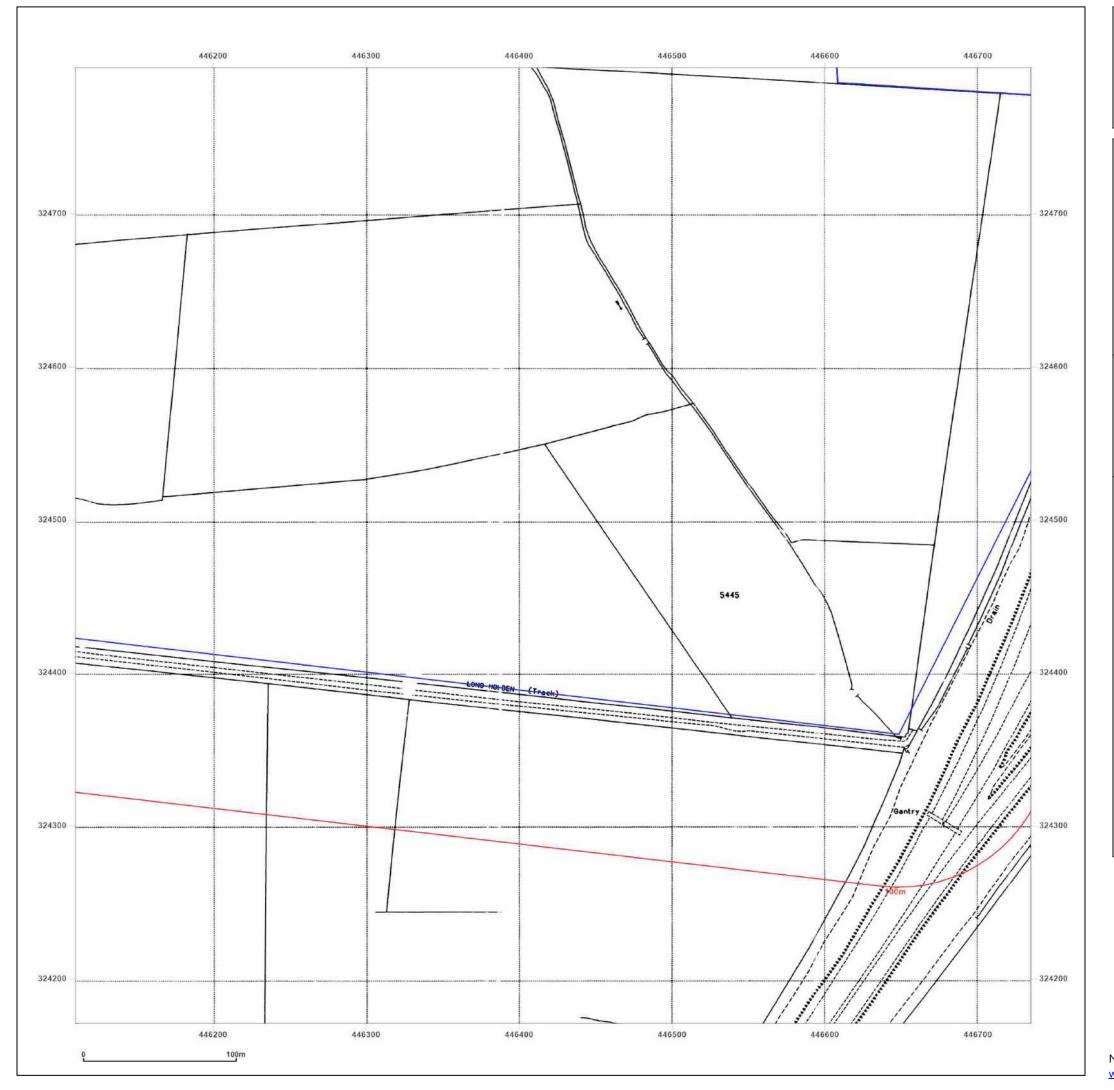


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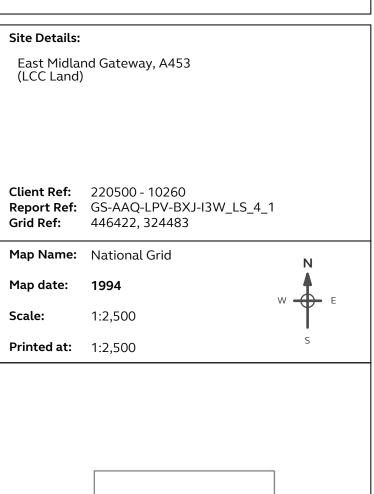
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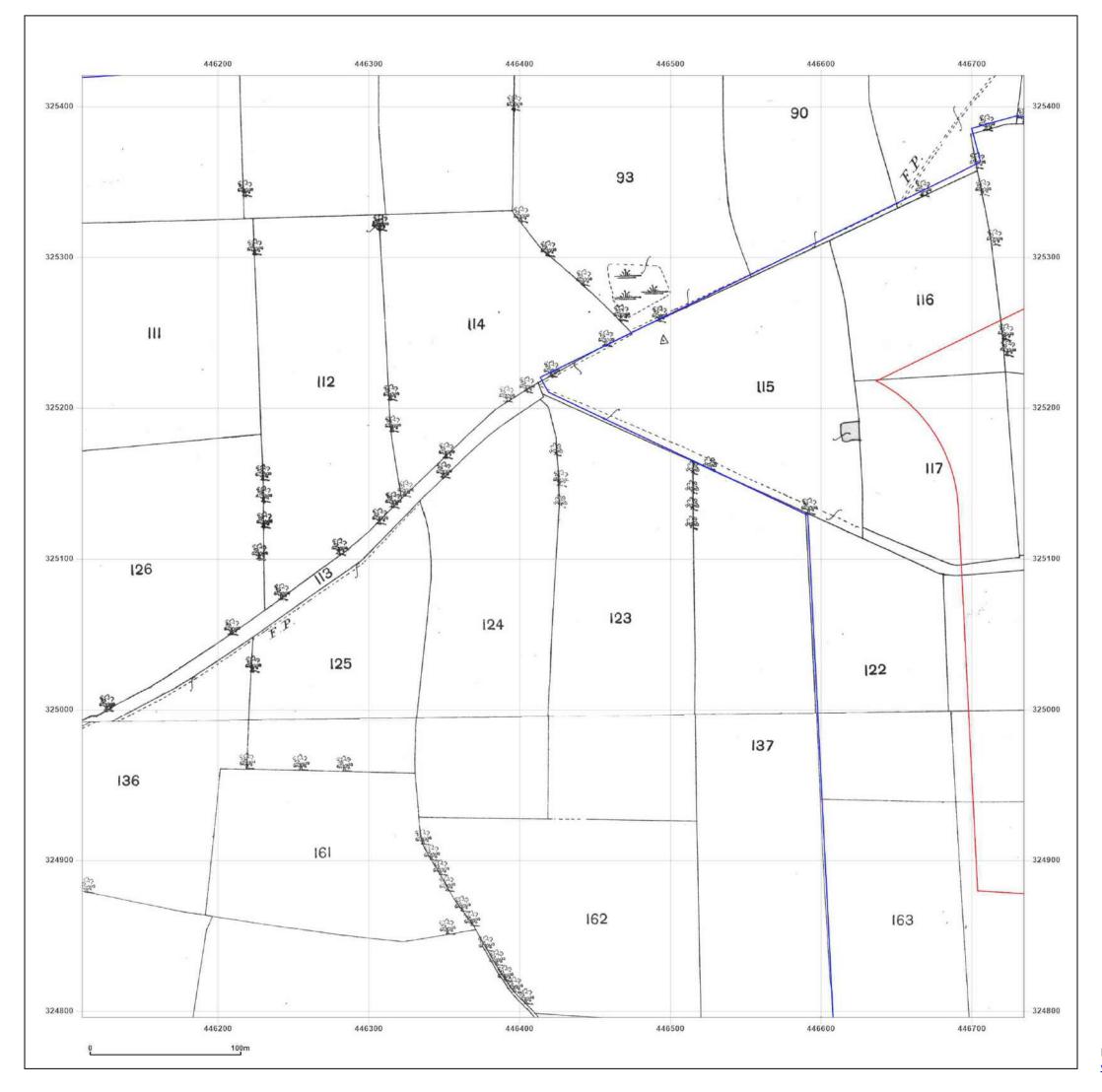


Surveyed N/A Revised N/A Edition N/A Copyright 1994 Levelled N/A

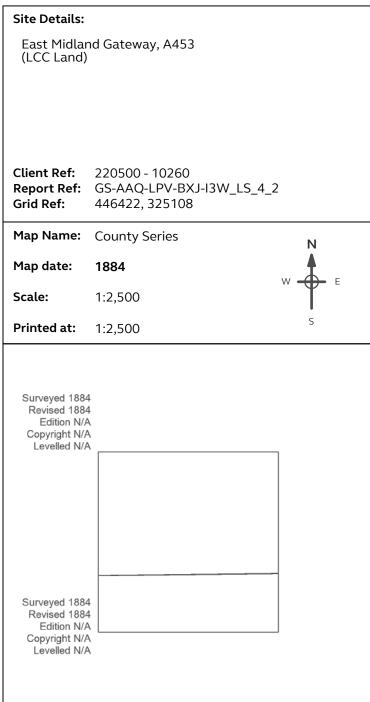
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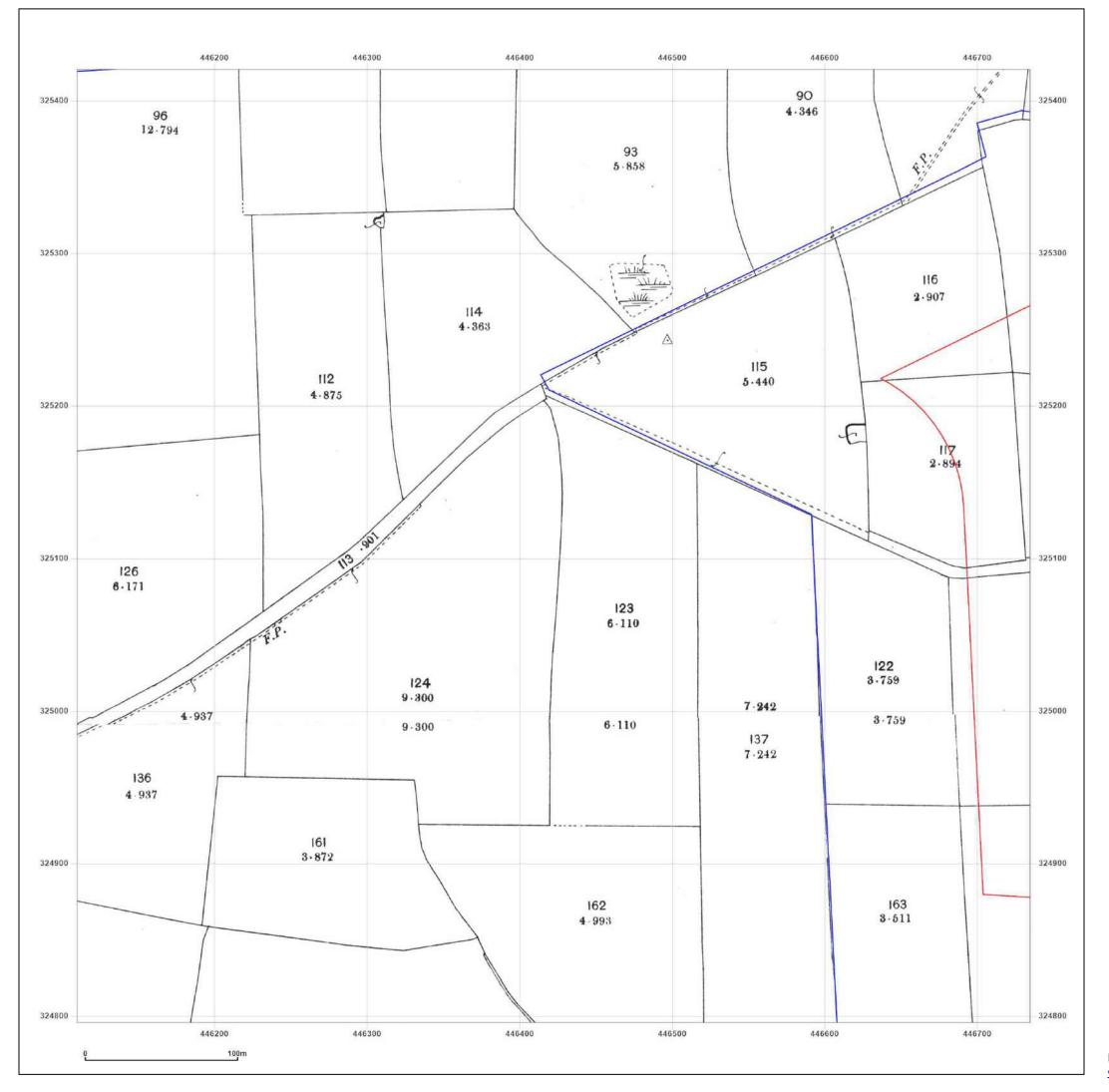




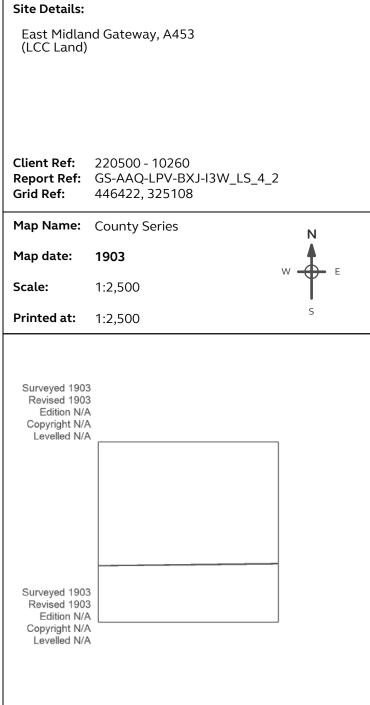
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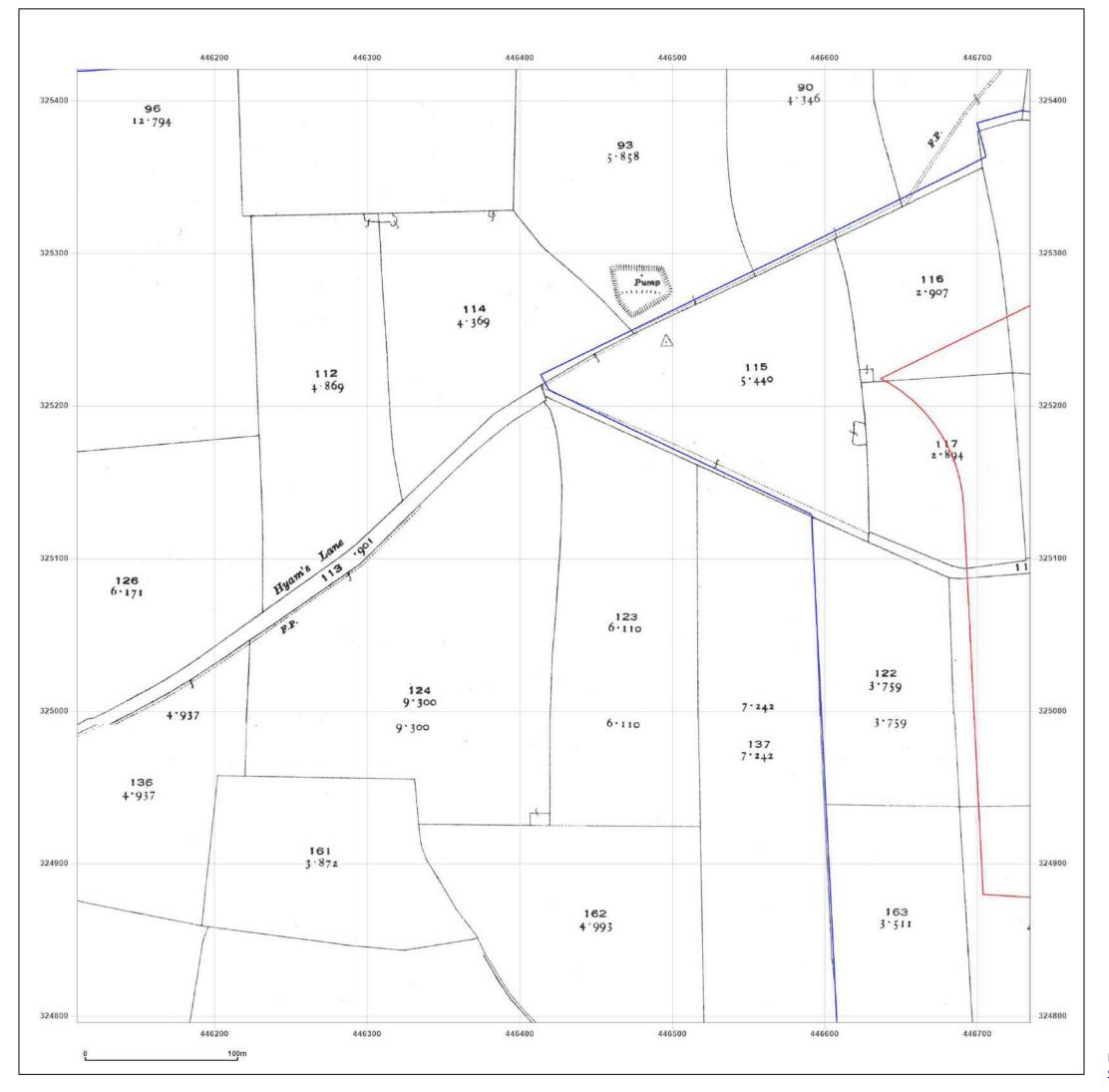




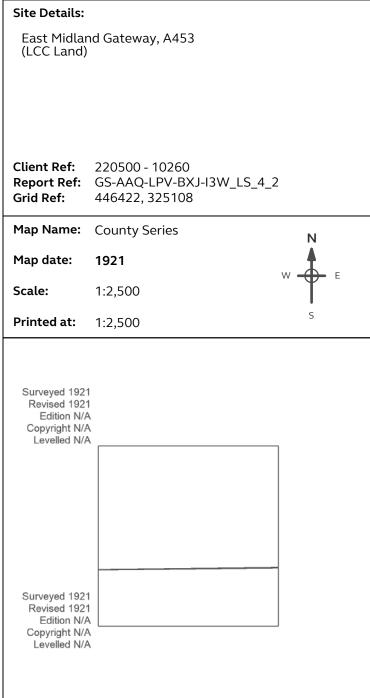
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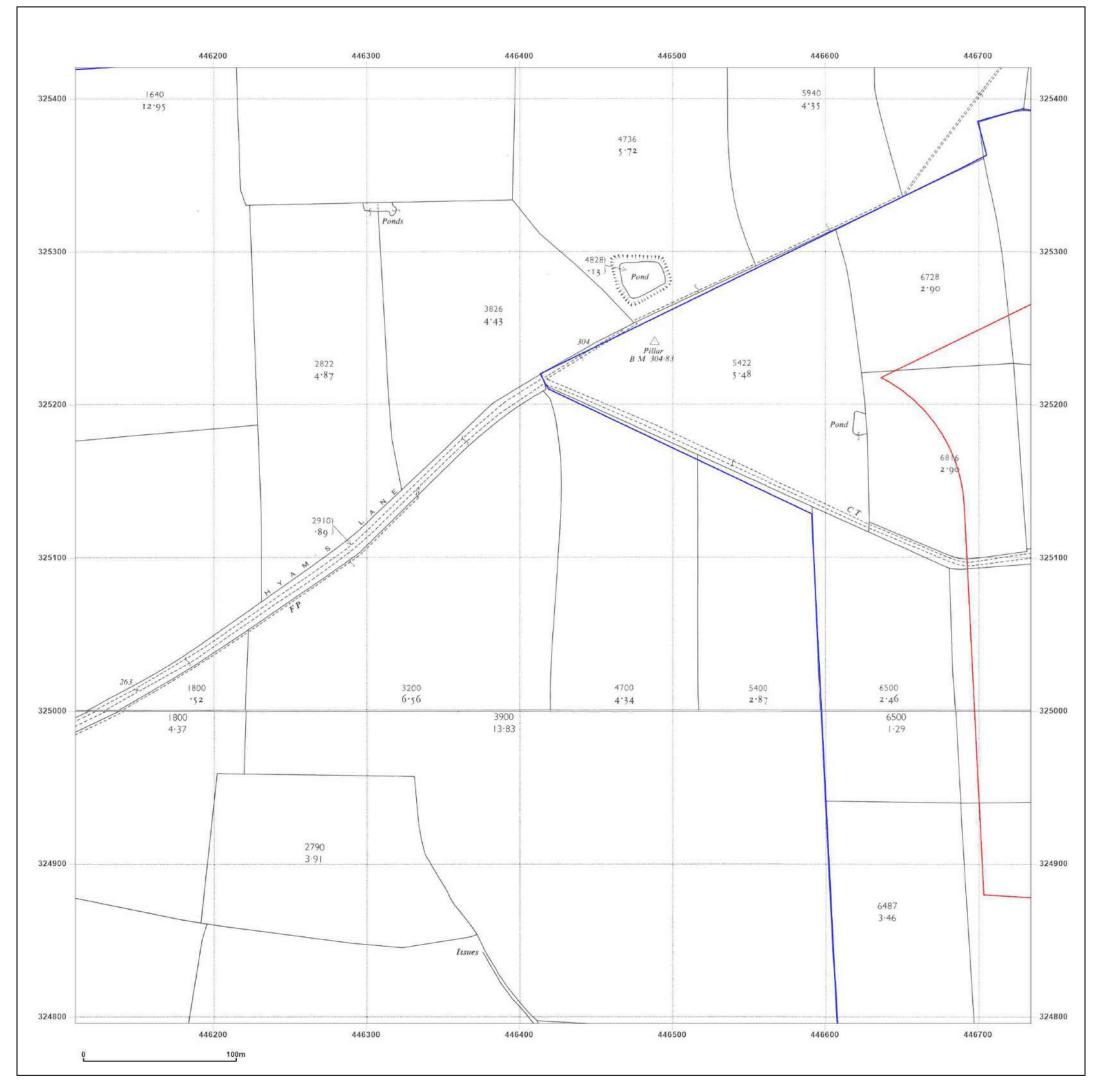




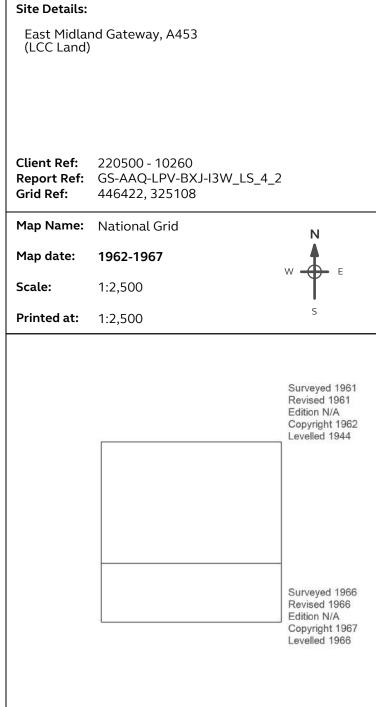
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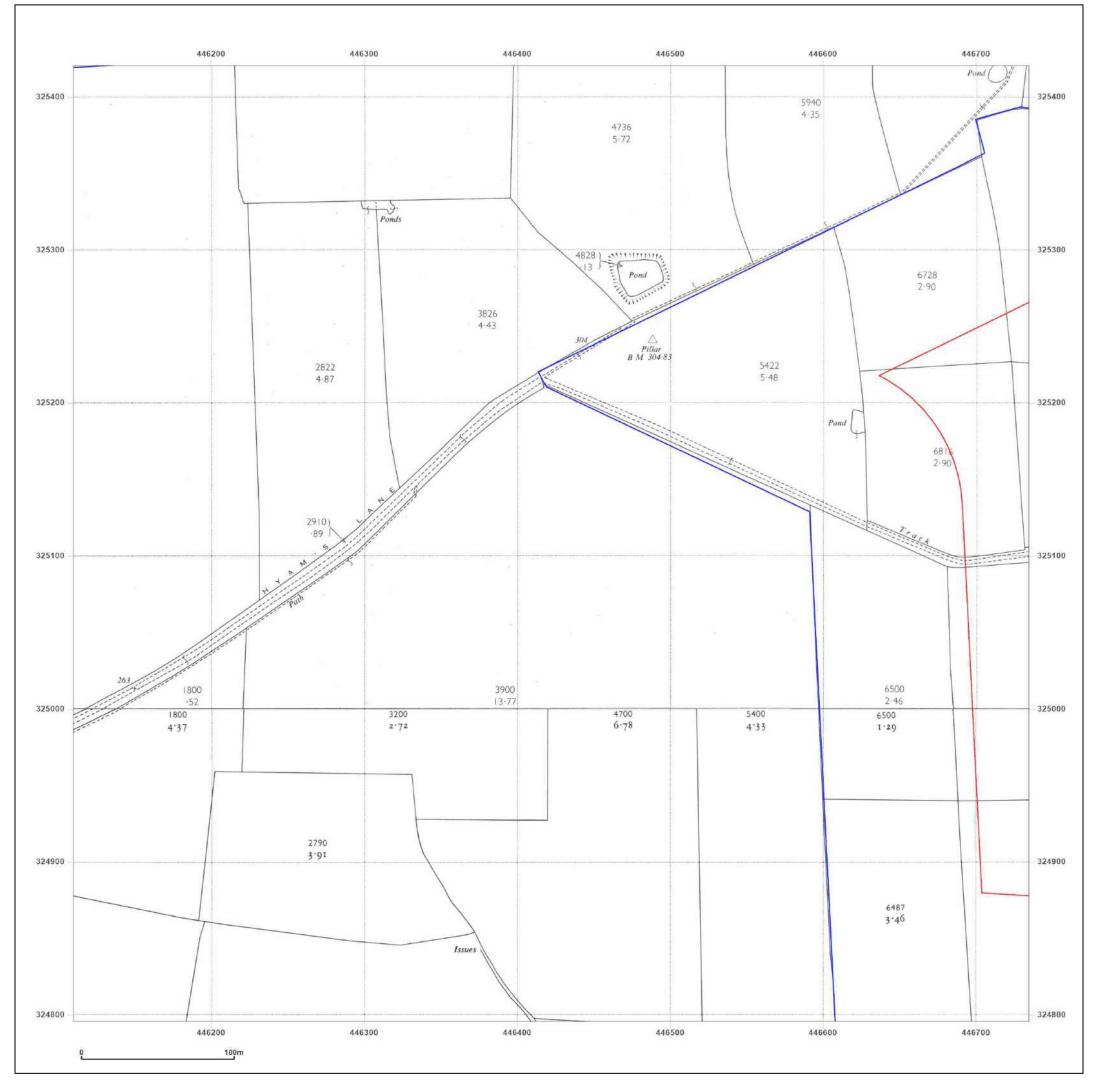




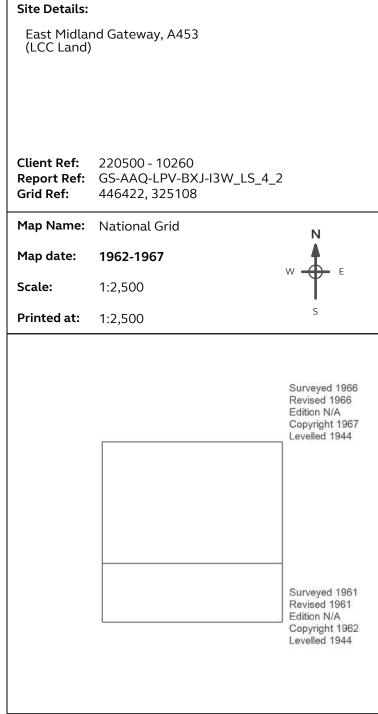
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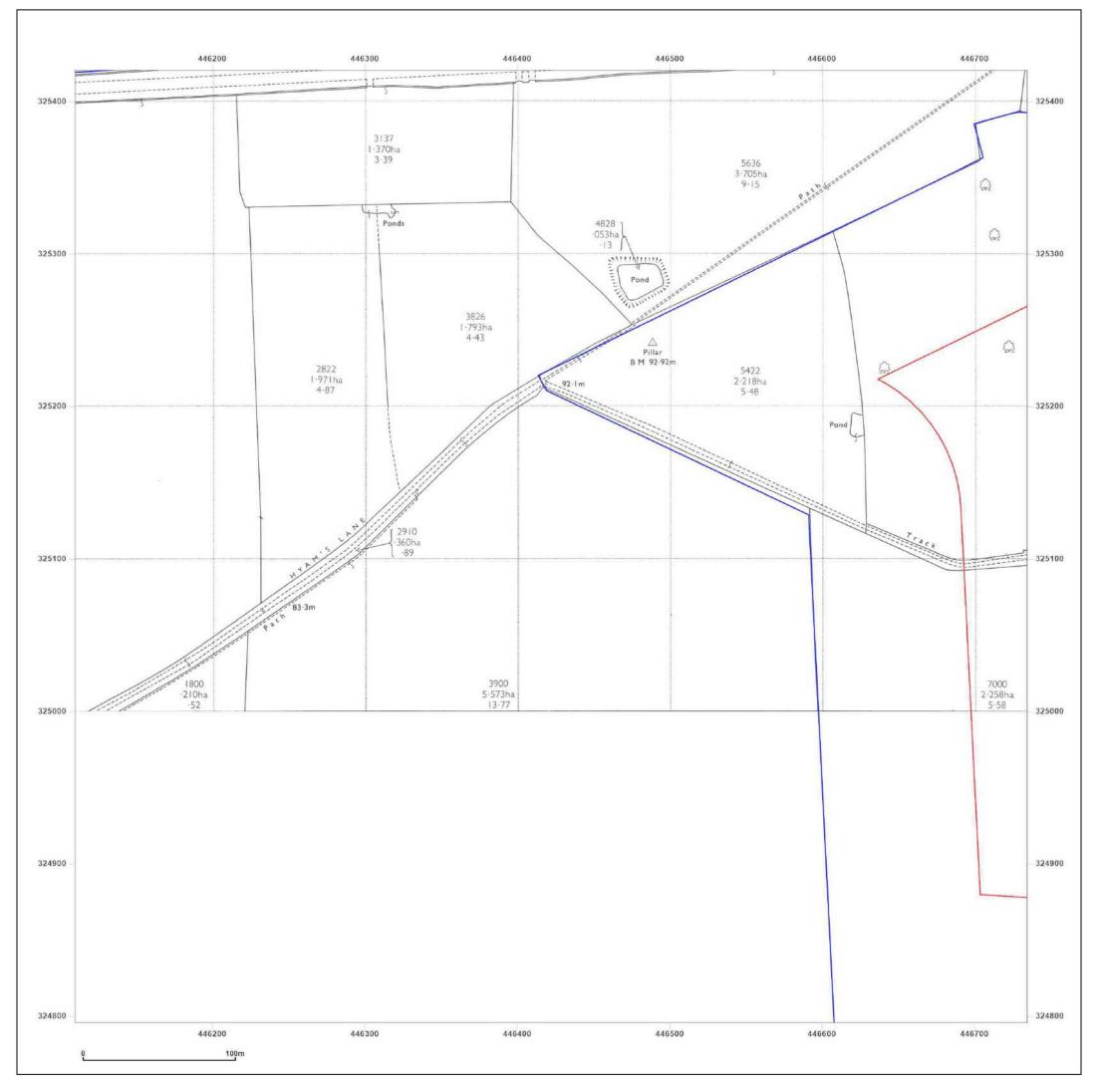




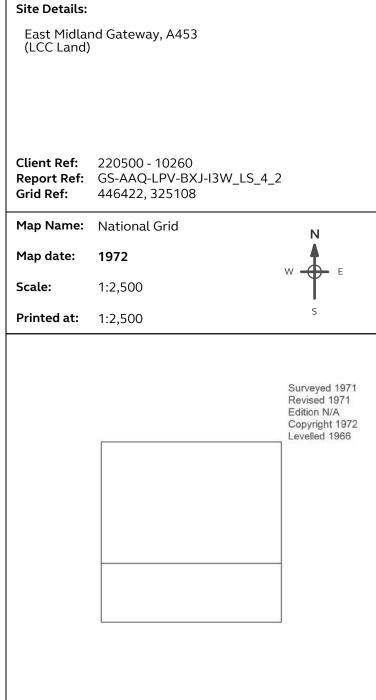
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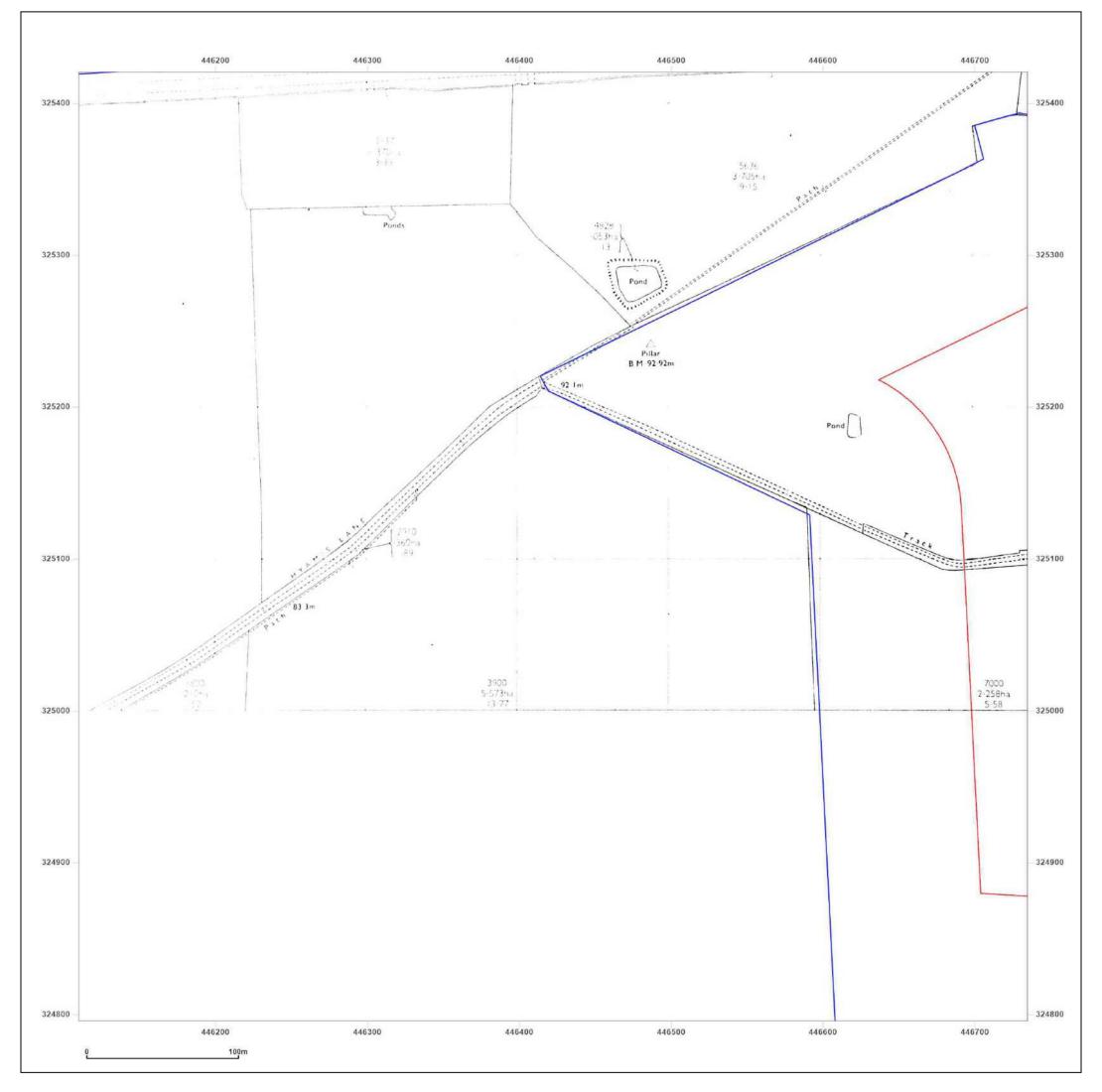




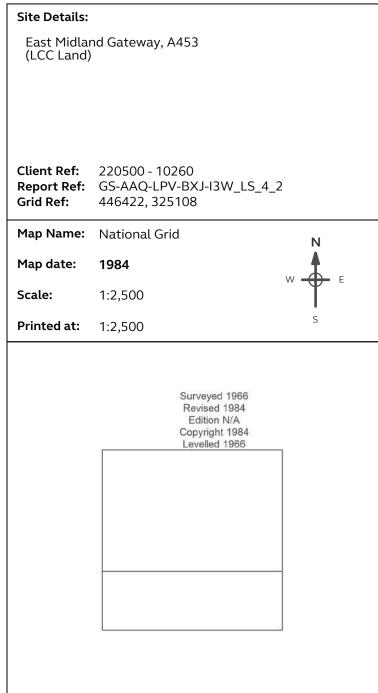
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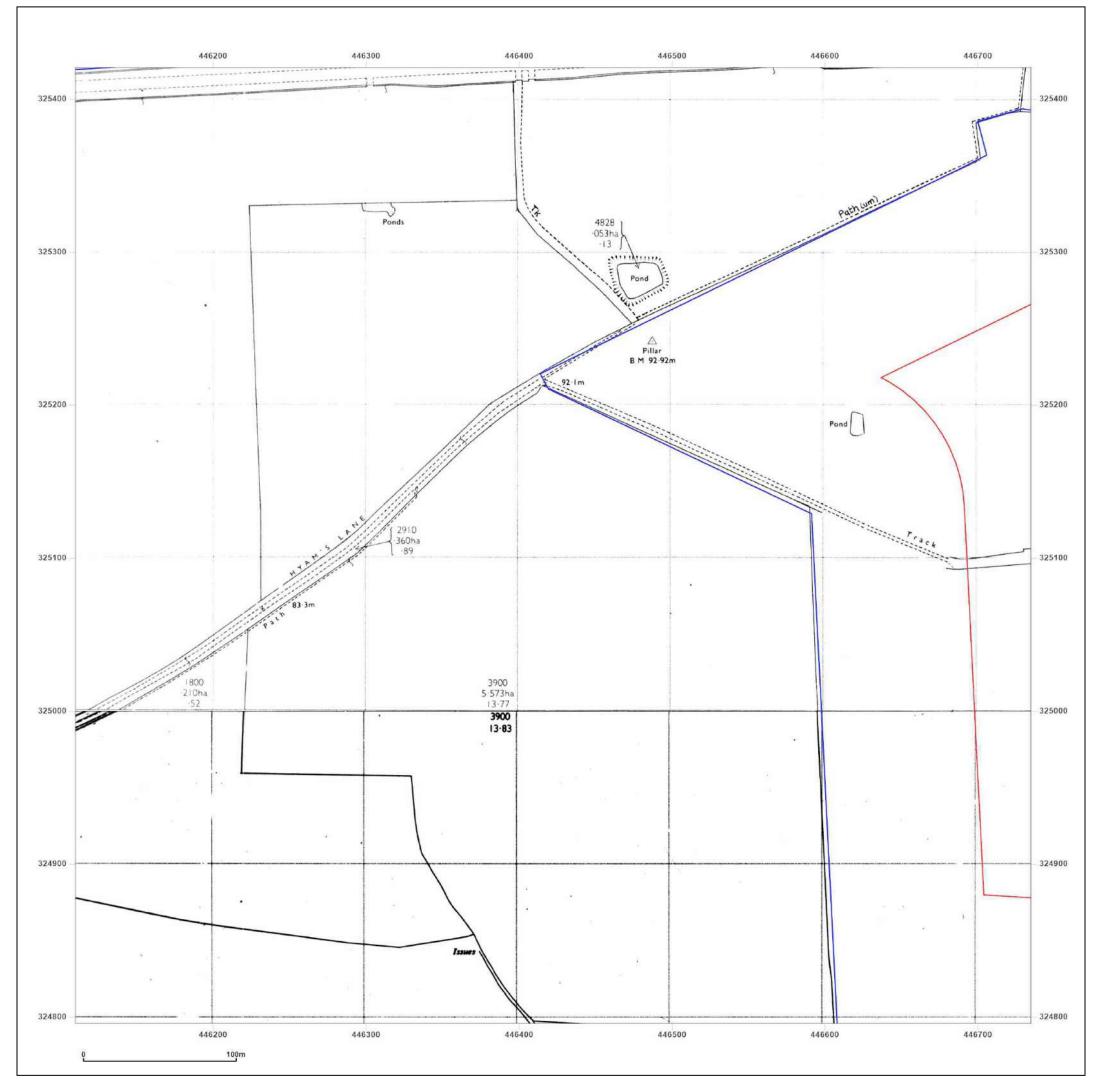




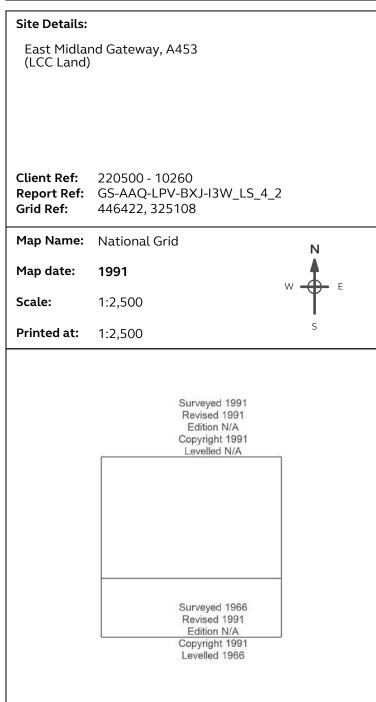
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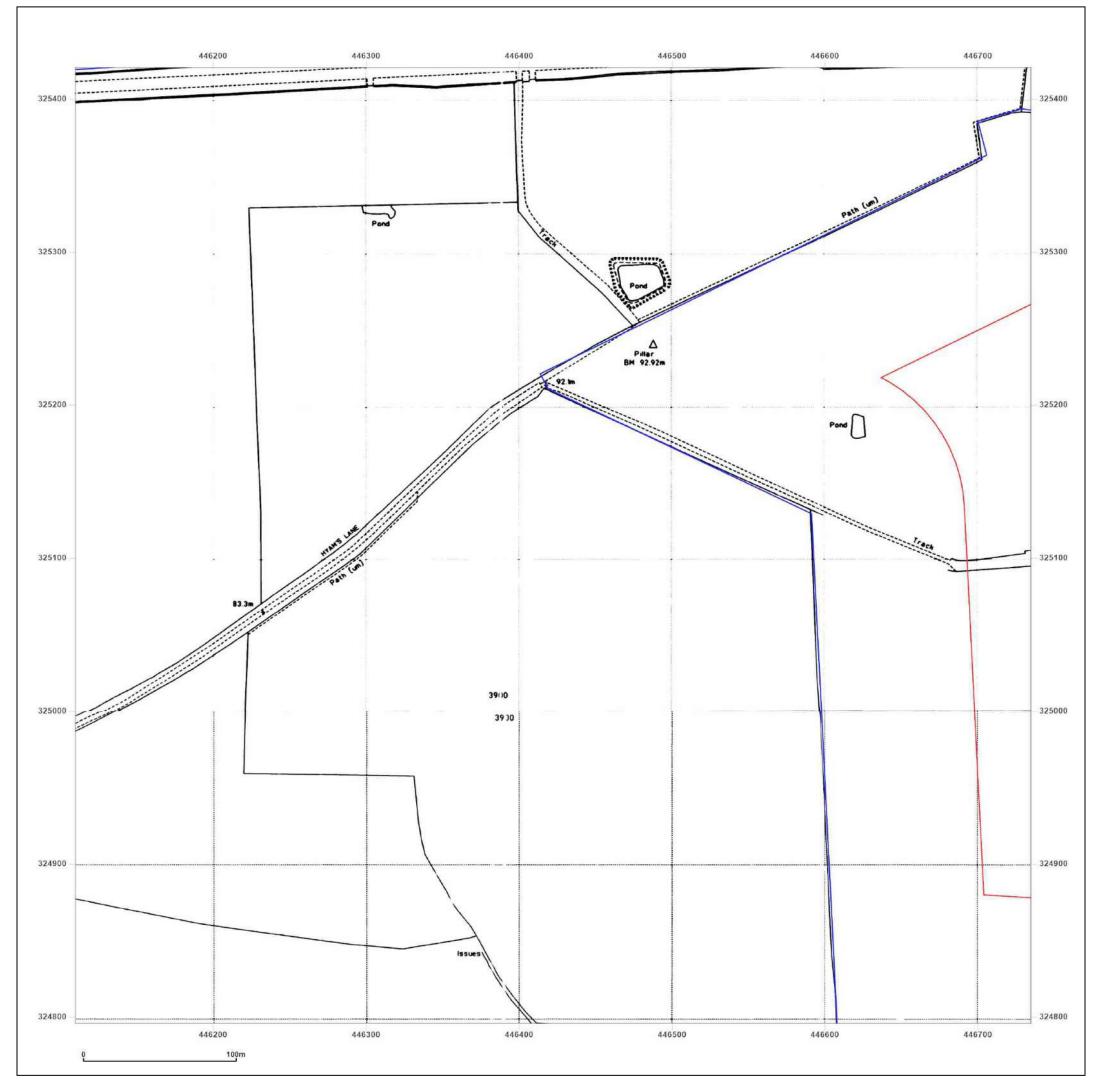




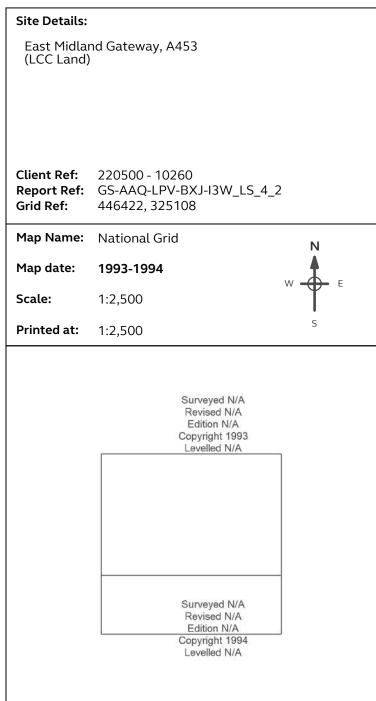
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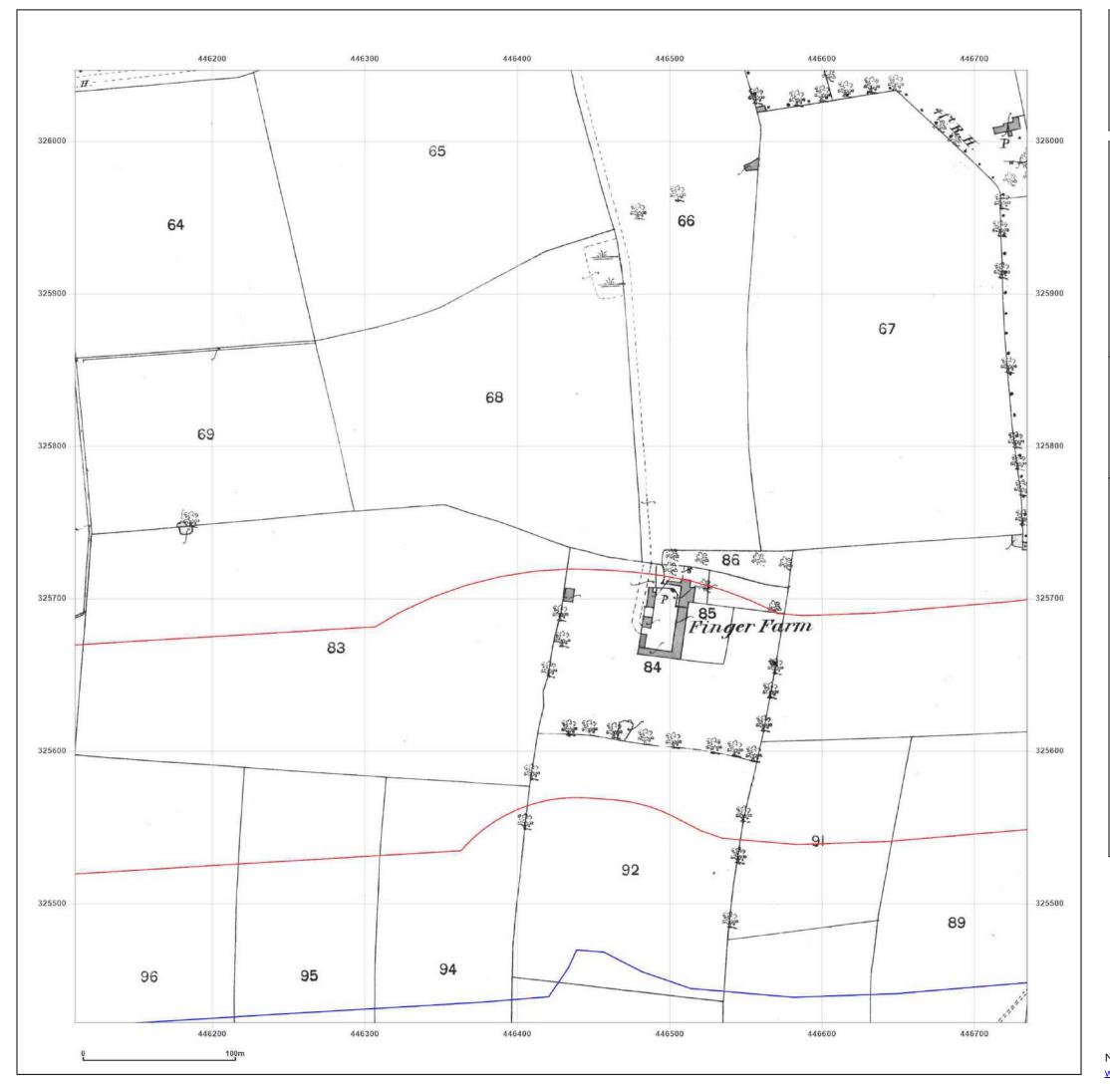




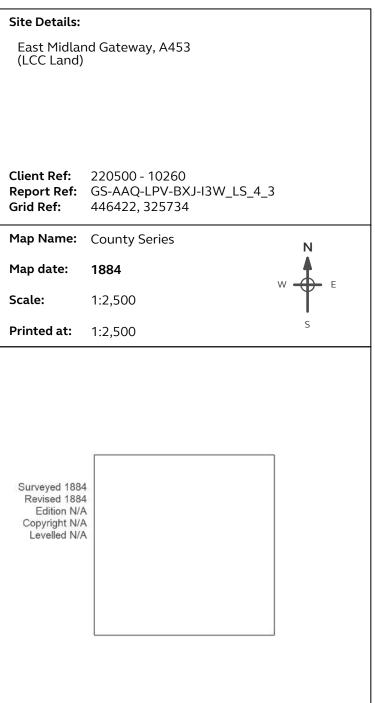
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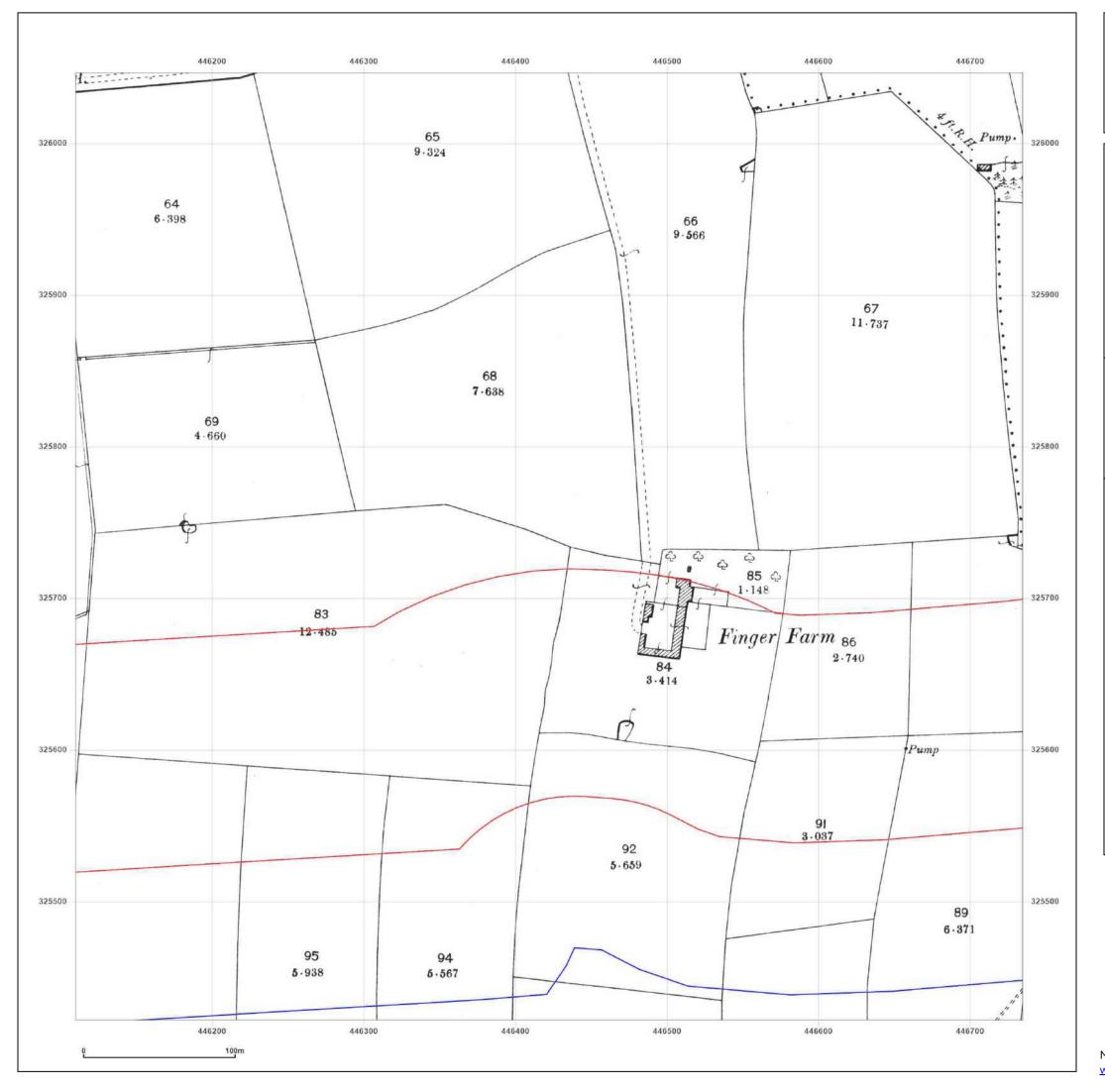




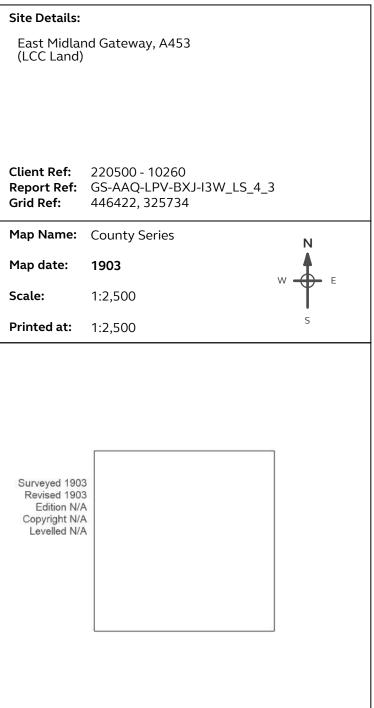
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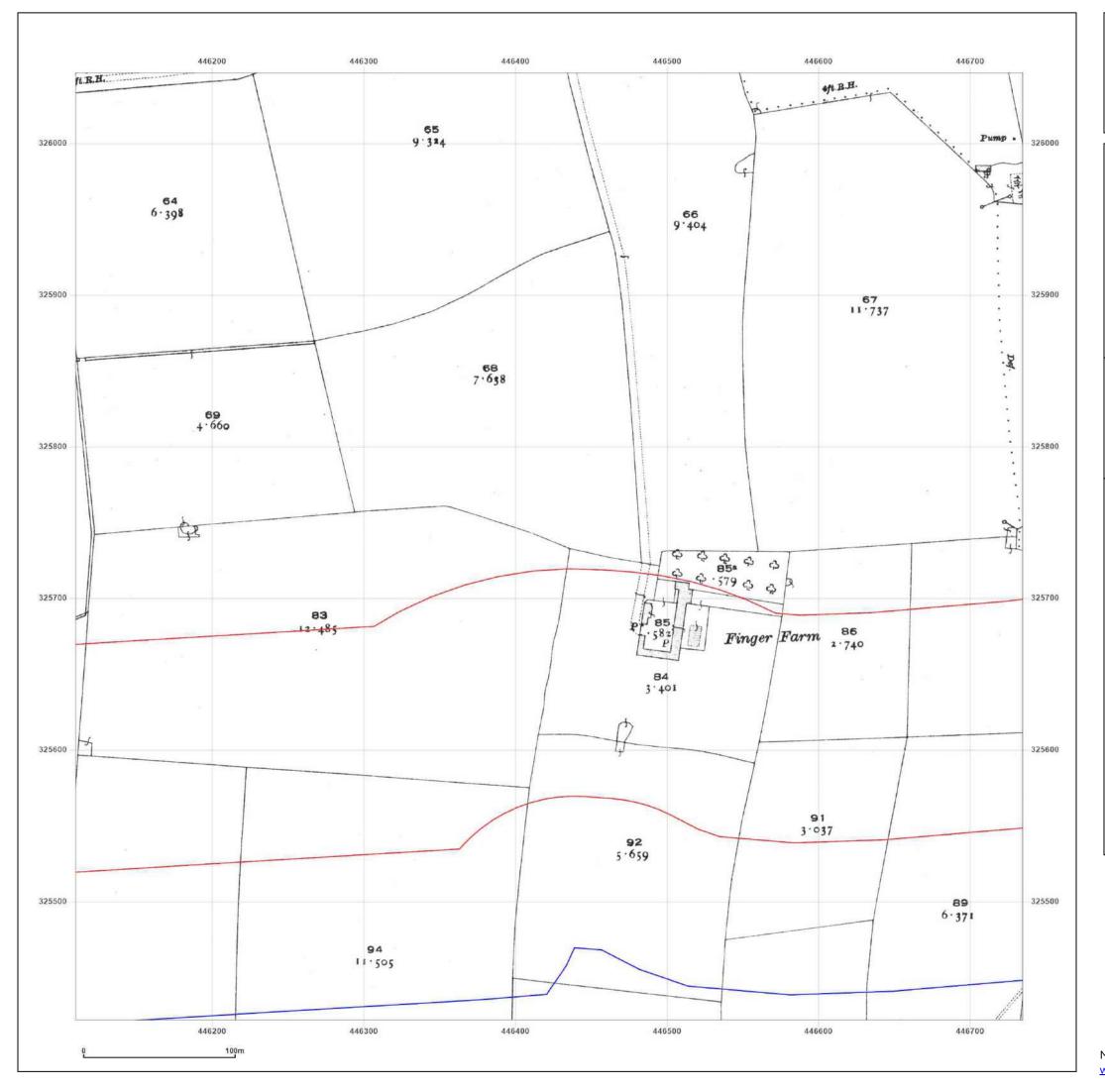




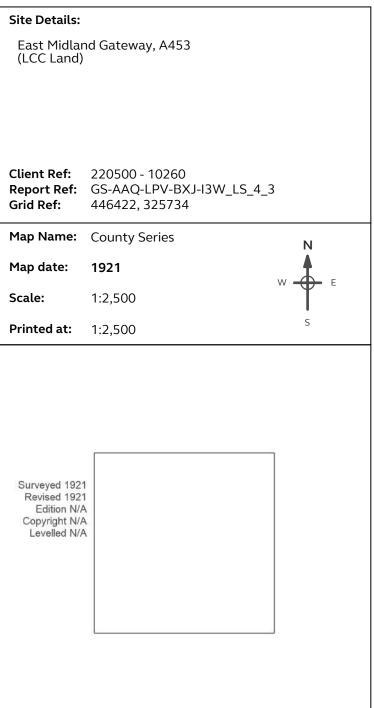
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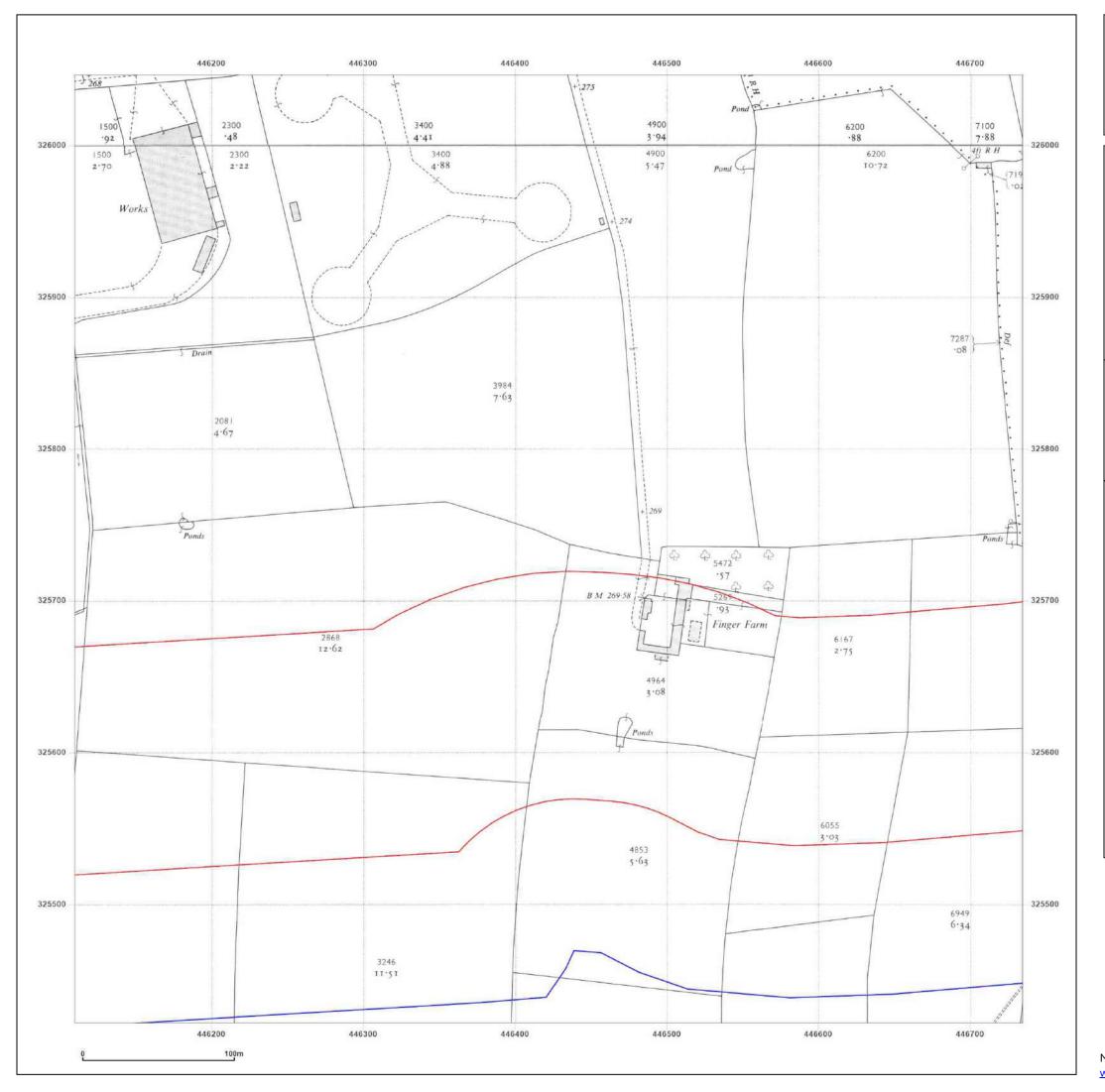




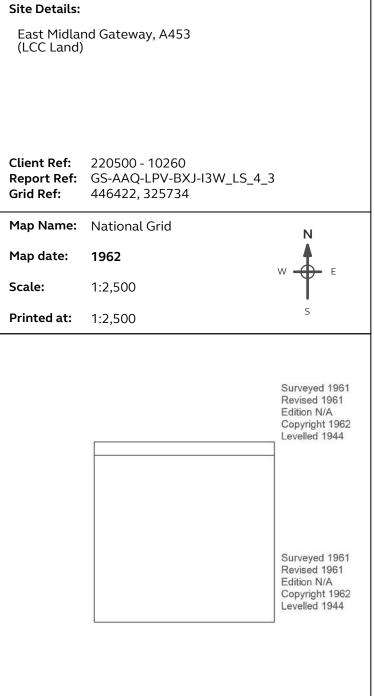
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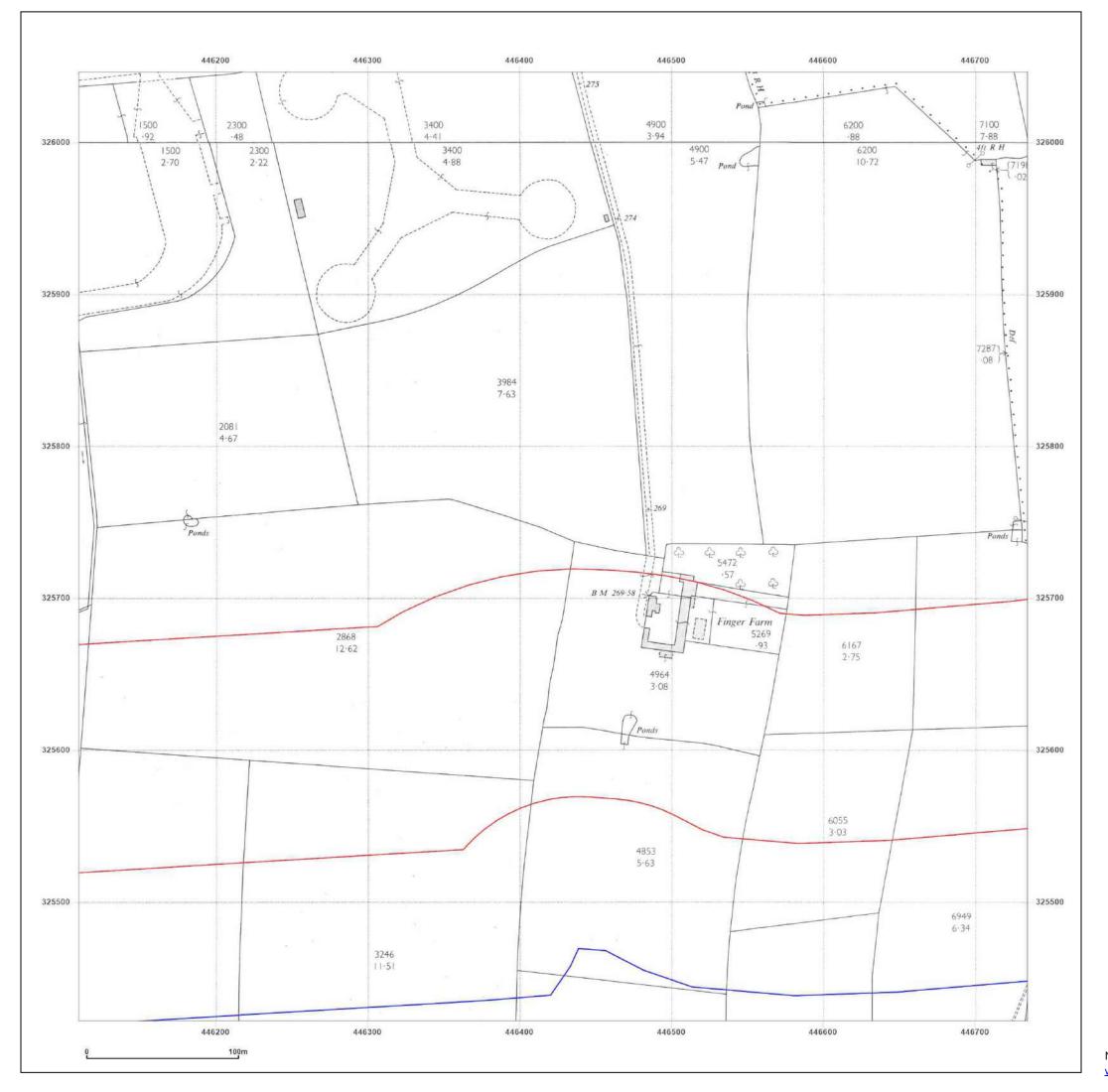




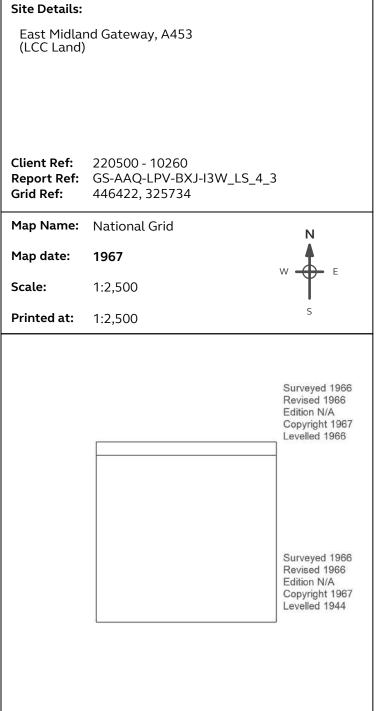
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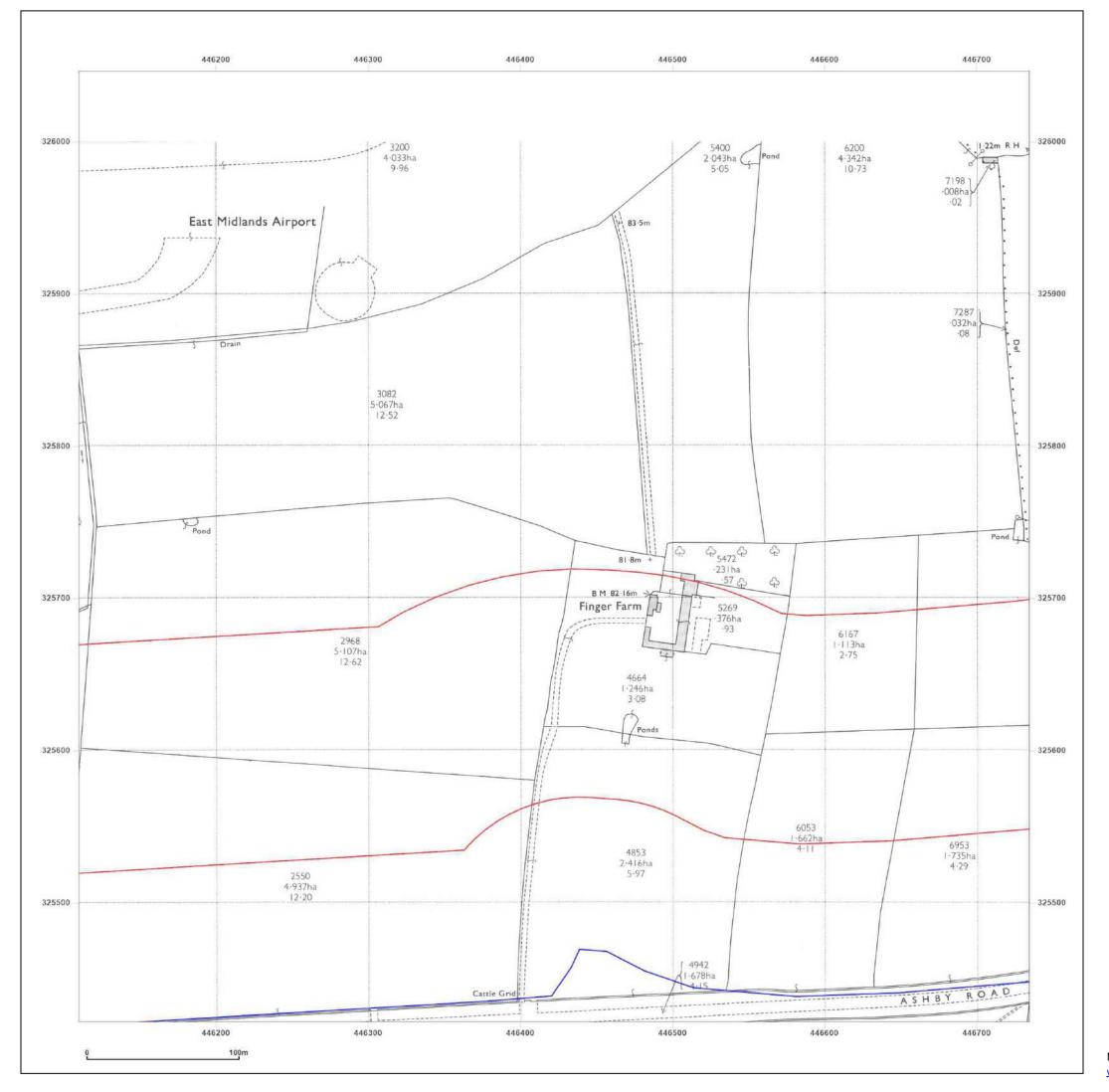




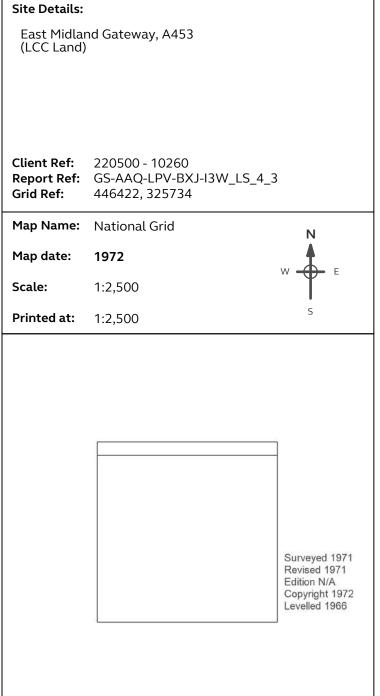
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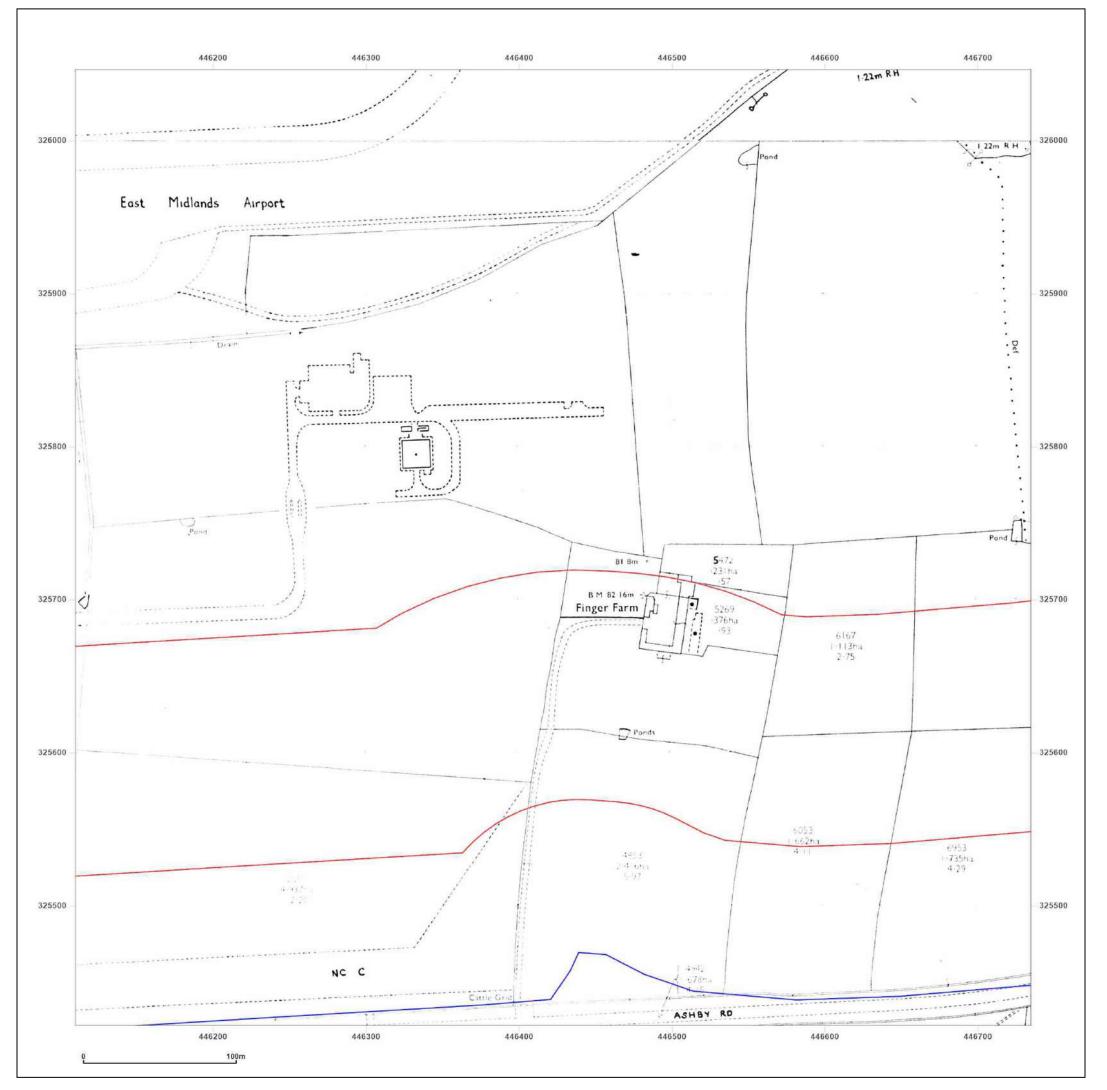




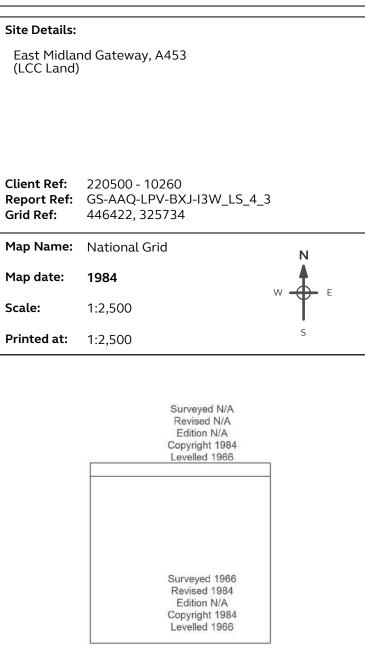
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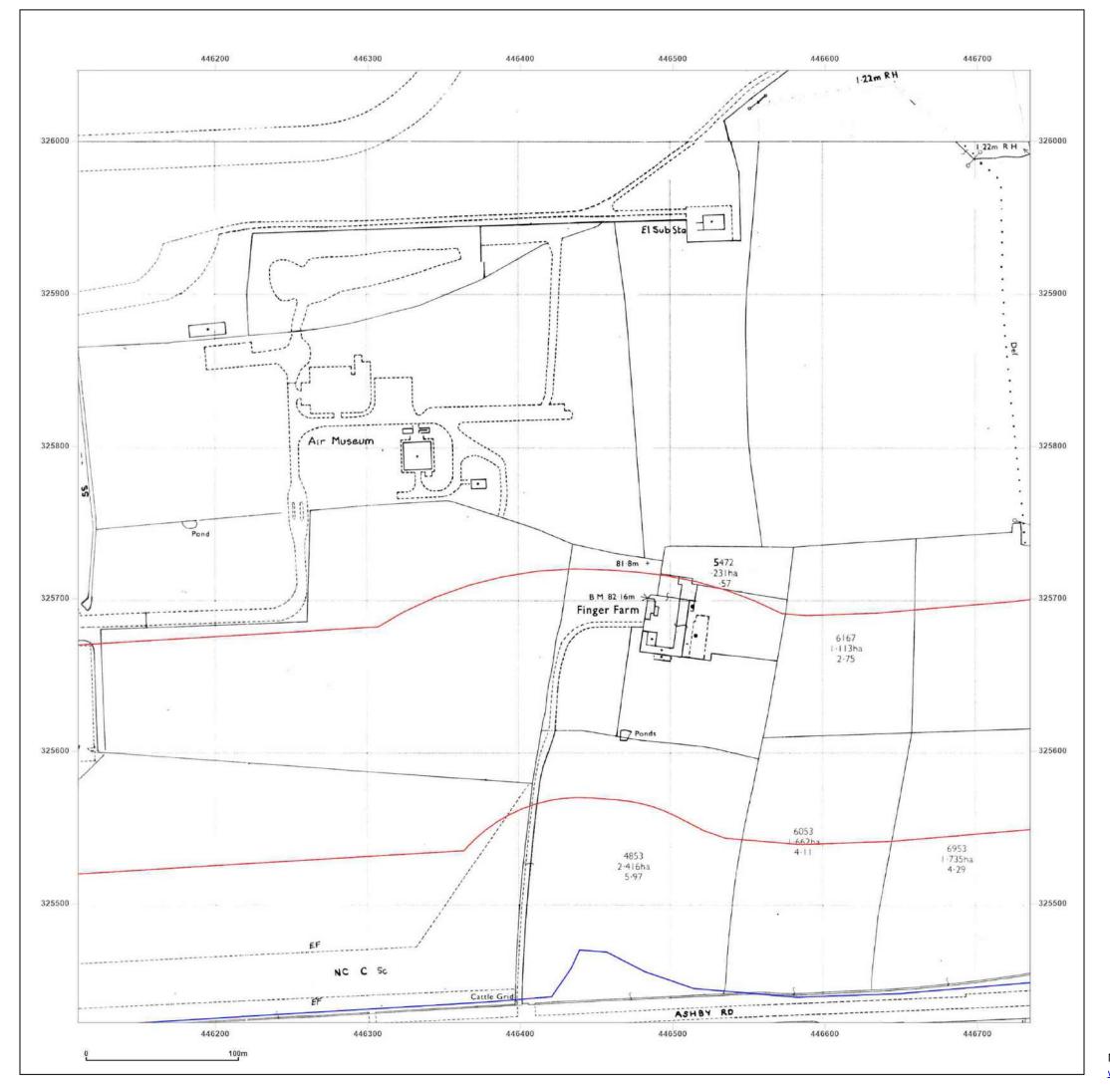




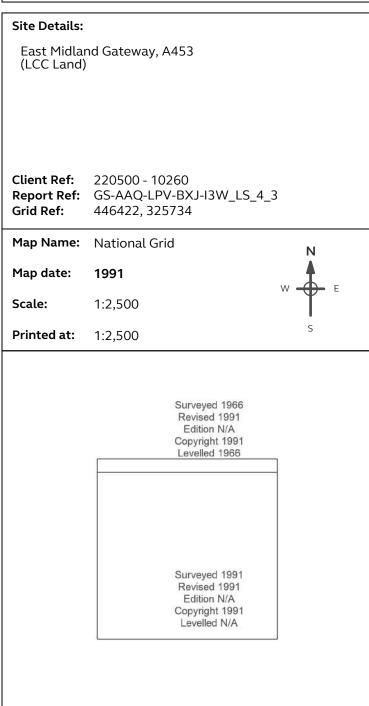
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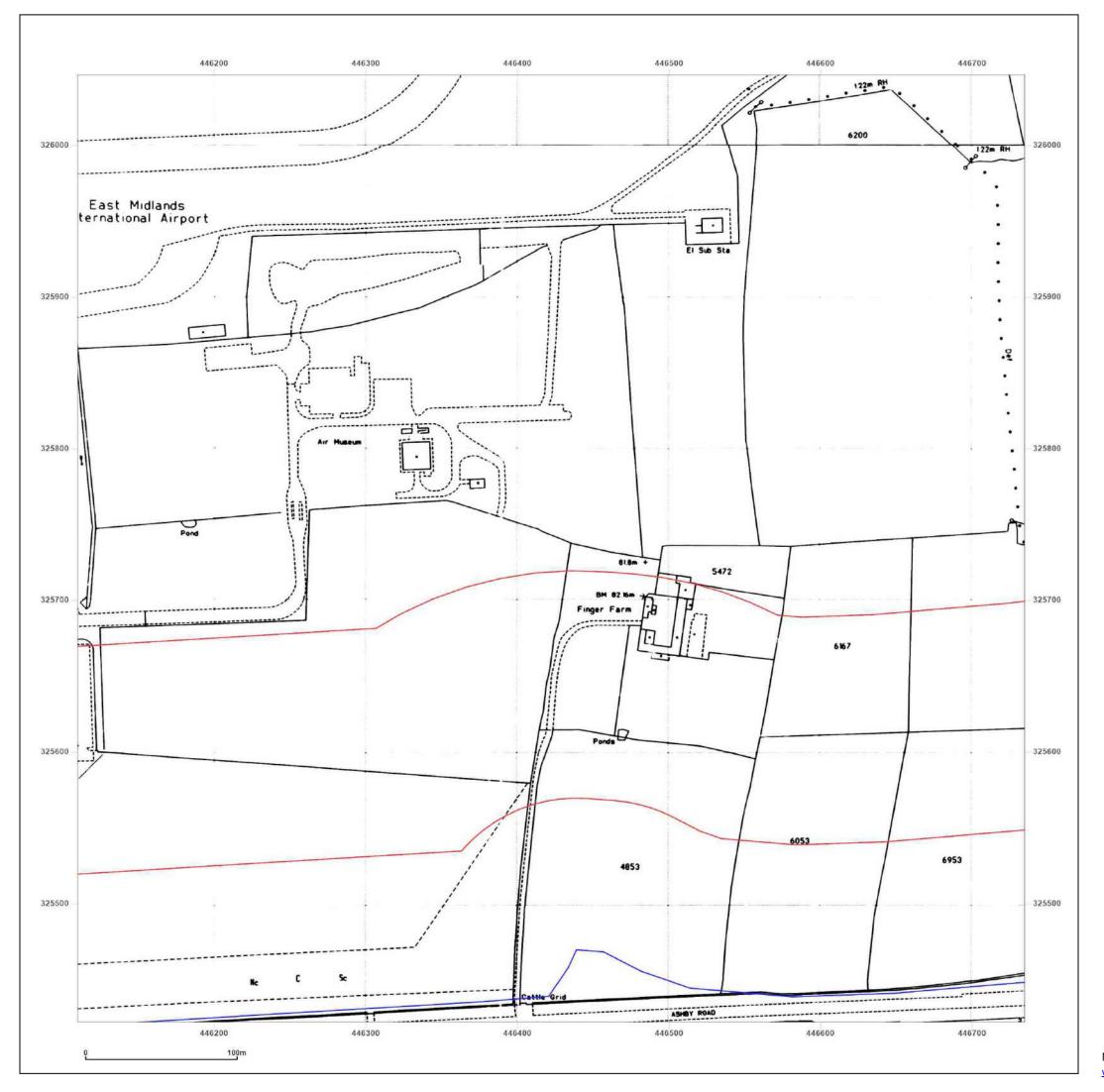




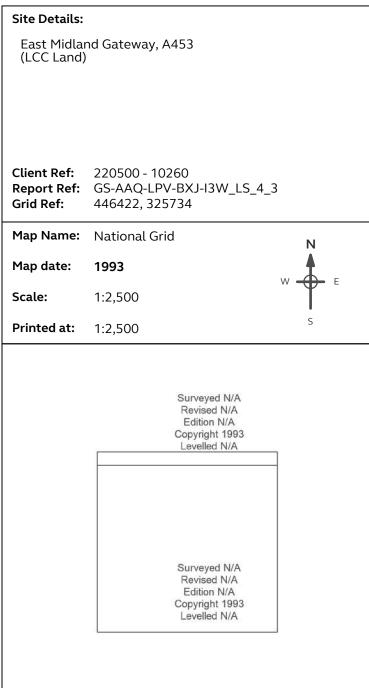
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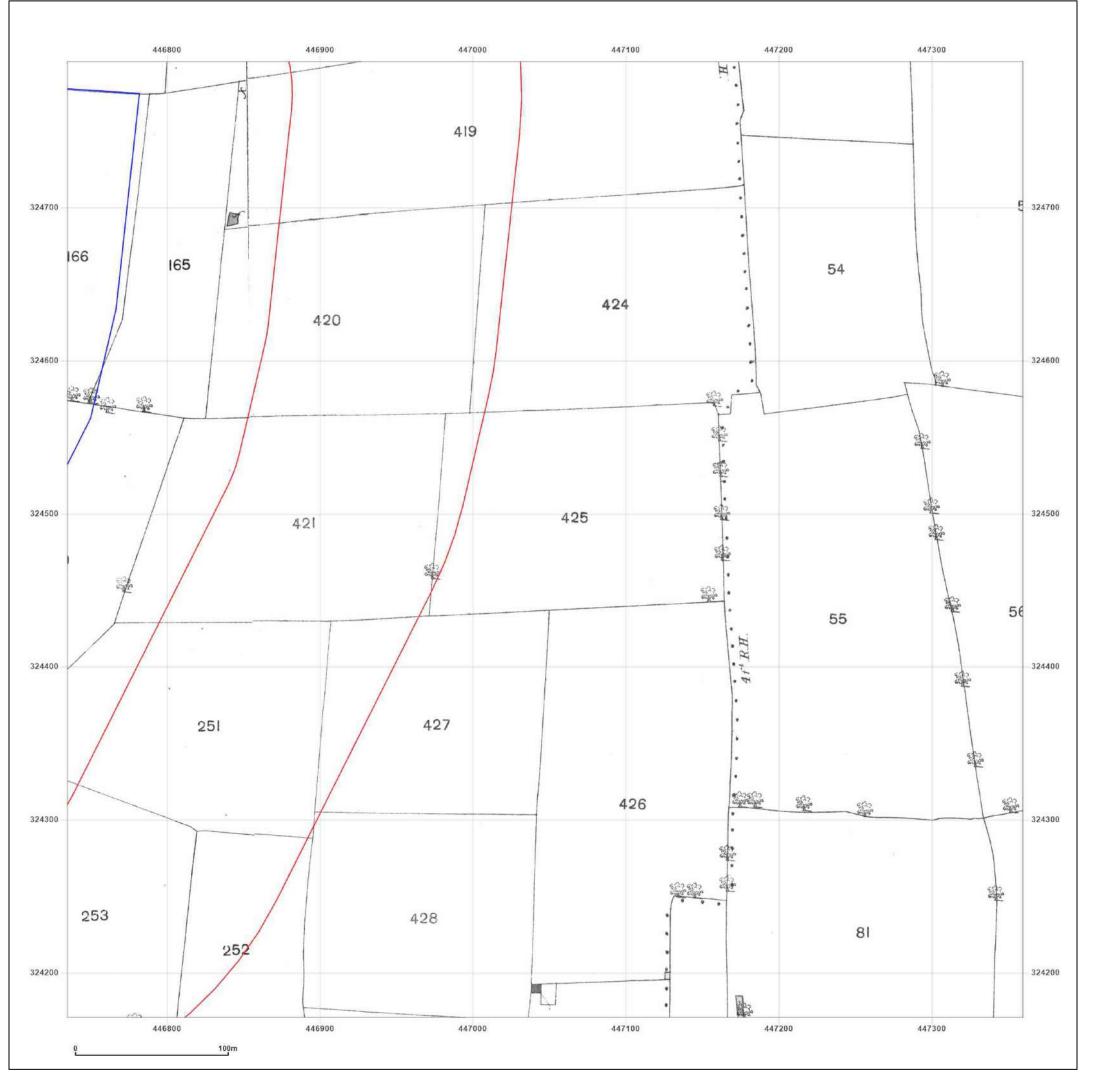




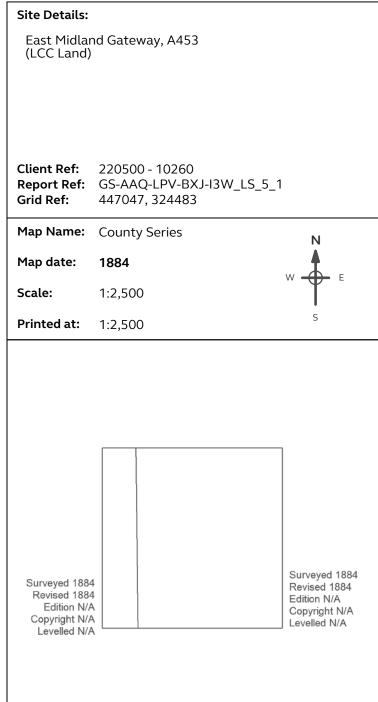
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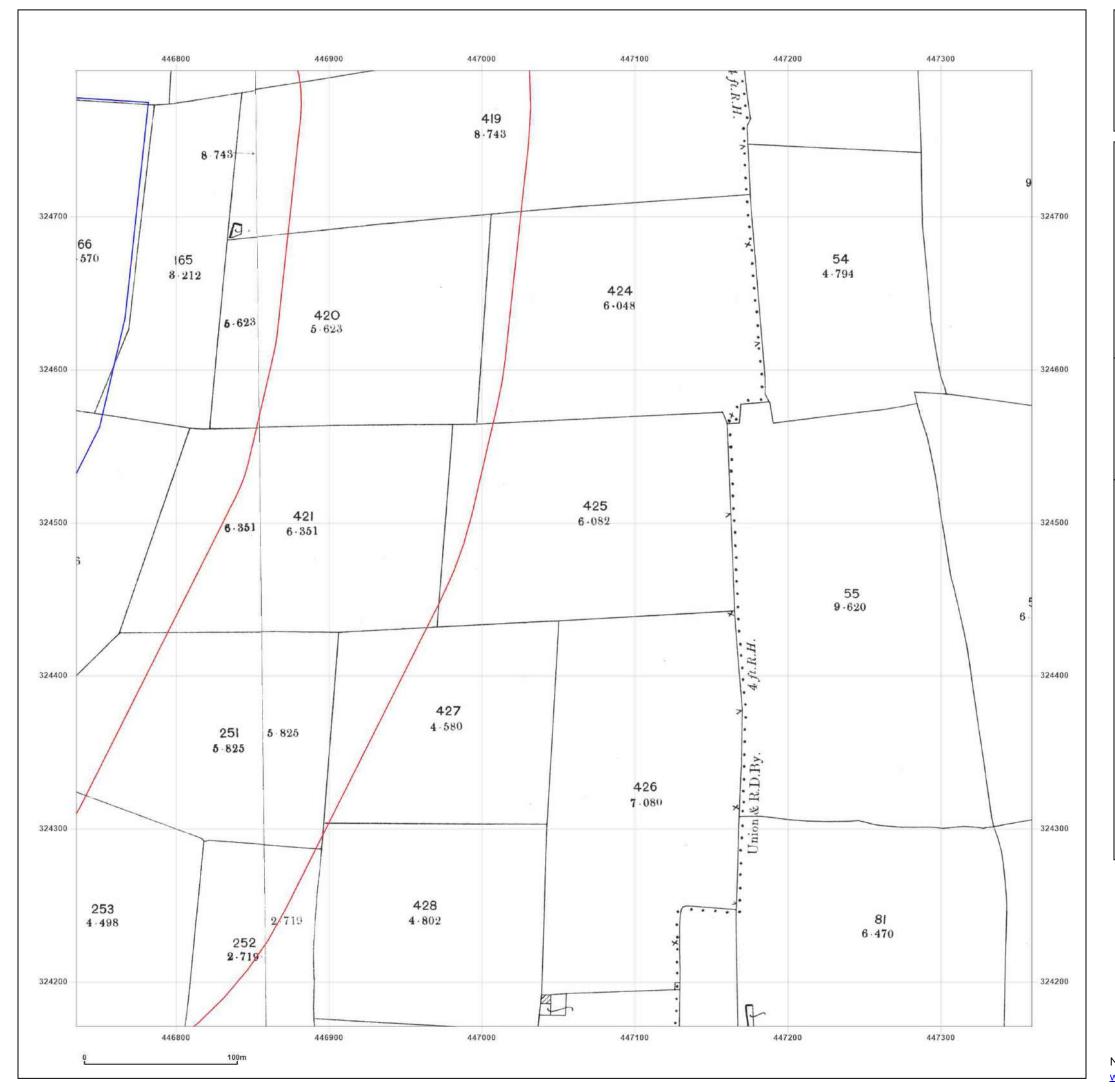




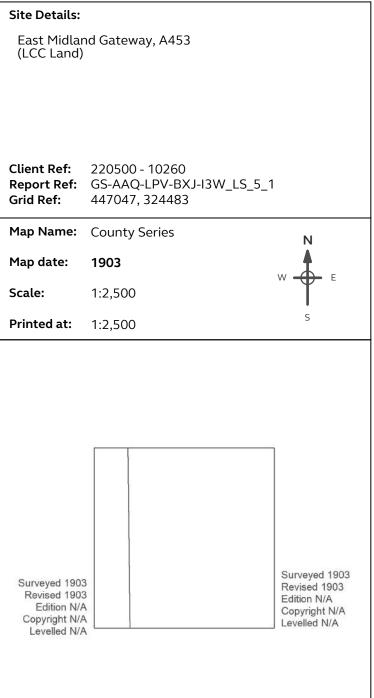
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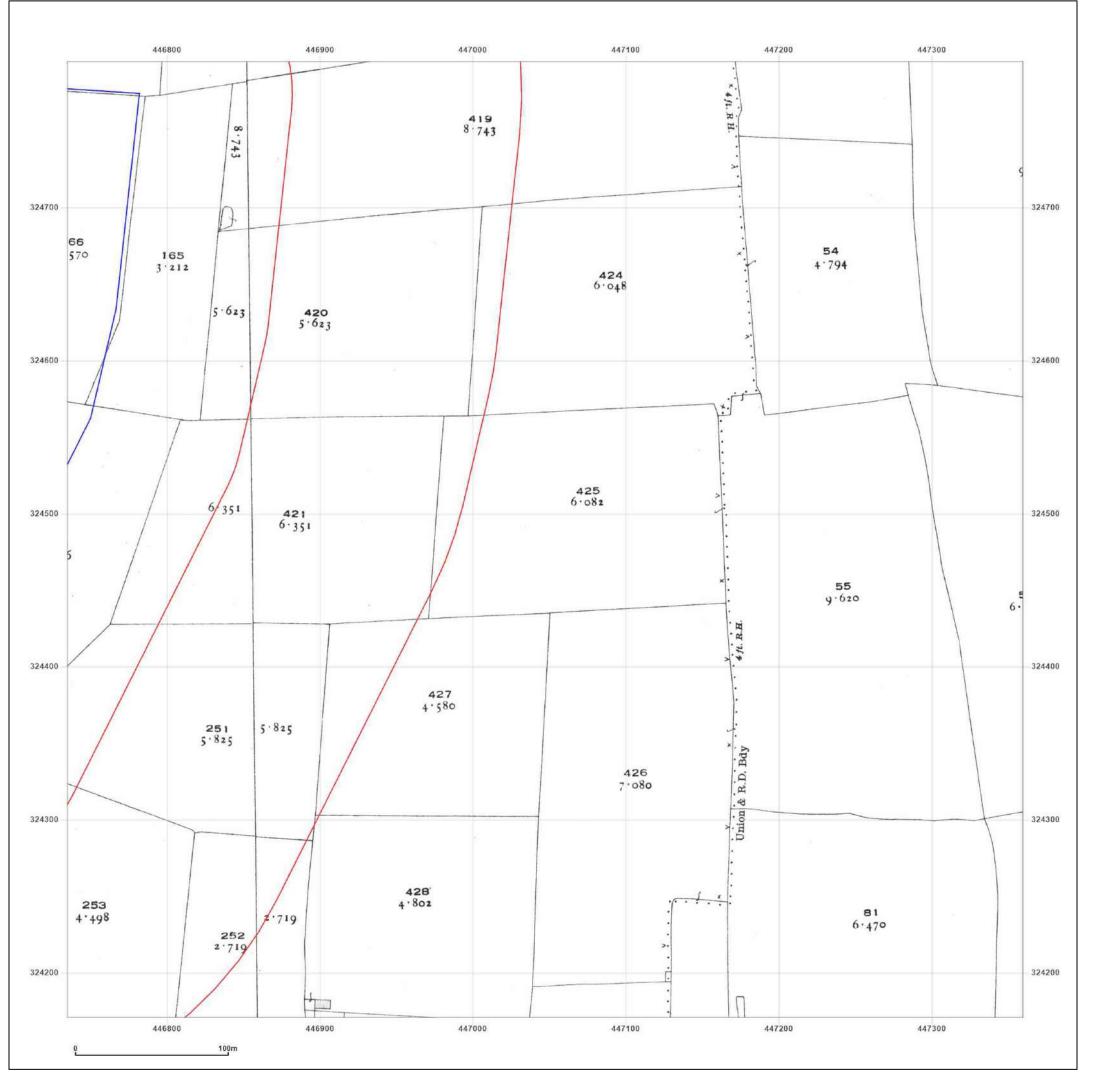




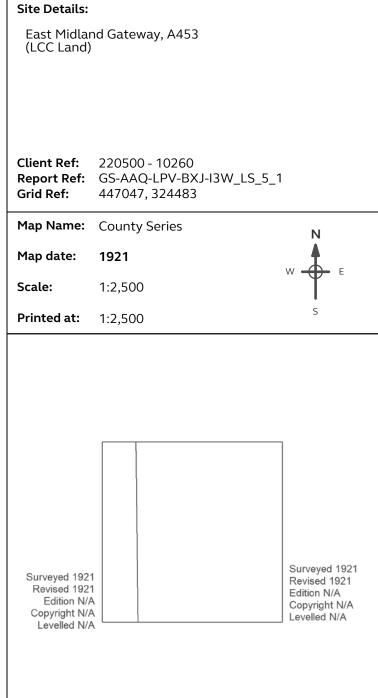
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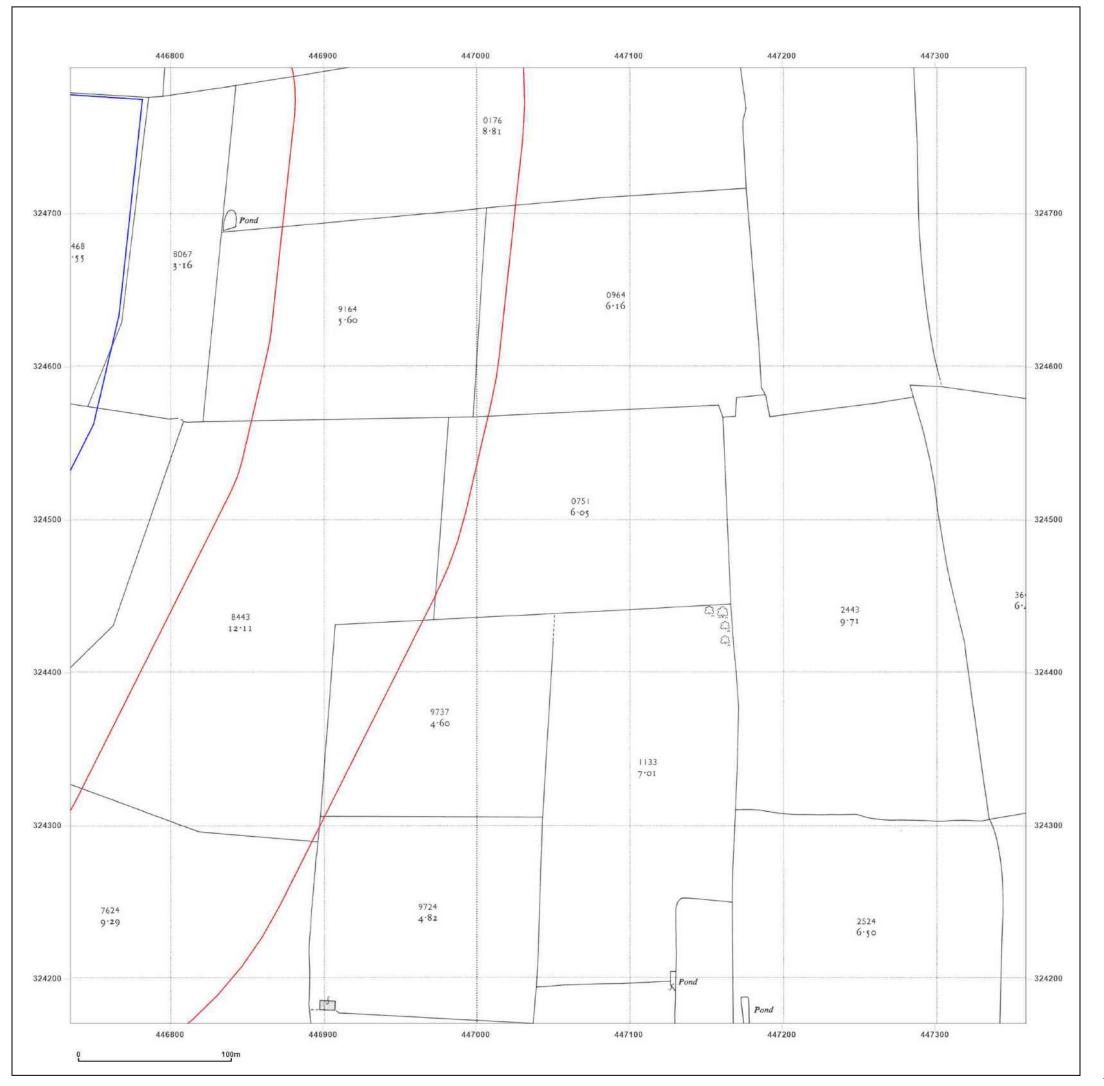




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## Site Details:

East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

**Report Ref:** GS-AAQ-LPV-BXJ-I3W\_LS\_5\_1

447047, 324483 **Grid Ref:** 

Map Name: National Grid

Map date: 1962

1:2,500 Scale:

**Printed at:** 1:2,500

Surveyed 1961 Revised 1961

Edition N/A Copyright 1962

Levelled 1944

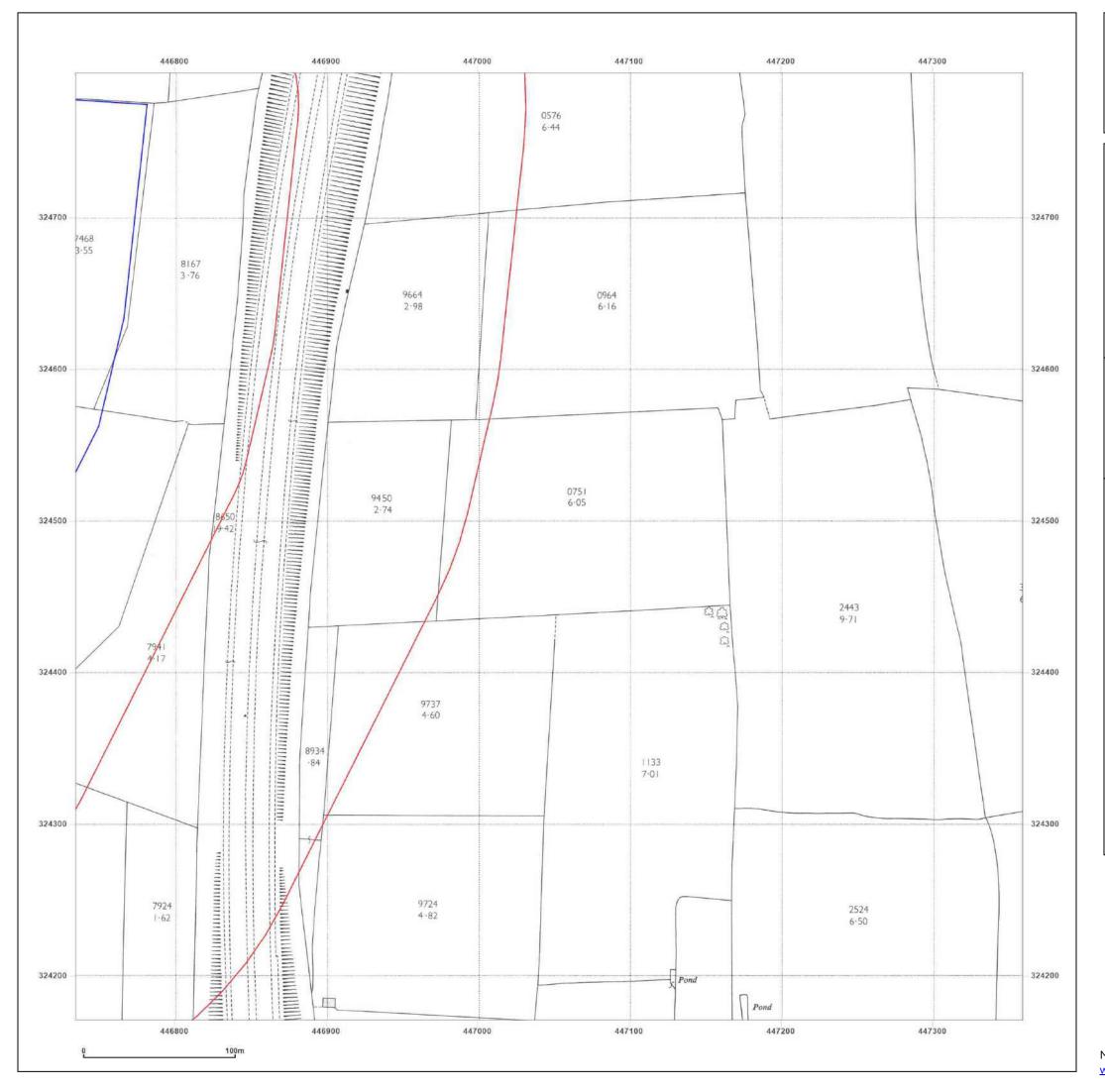


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East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

**Report Ref:** GS-AAQ-LPV-BXJ-I3W\_LS\_5\_1

**Grid Ref:** 447047, 324483

Map Name: National Grid

Map date: 1967

**Scale:** 1:2,500

**Printed at:** 1:2,500

Surveyed 1966 Revised 1966 Edition N/A Copyright 1967 Levelled 1966

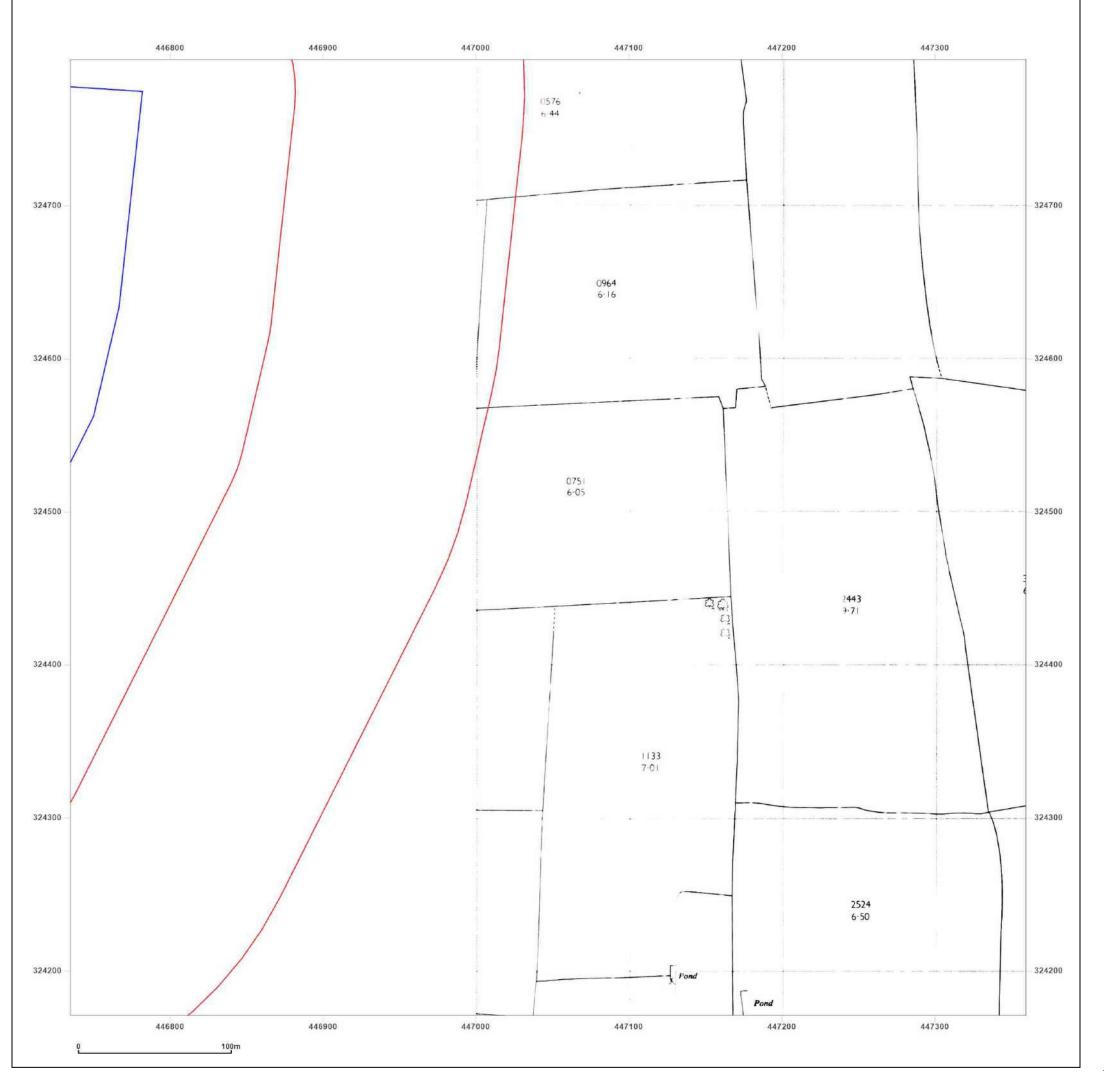


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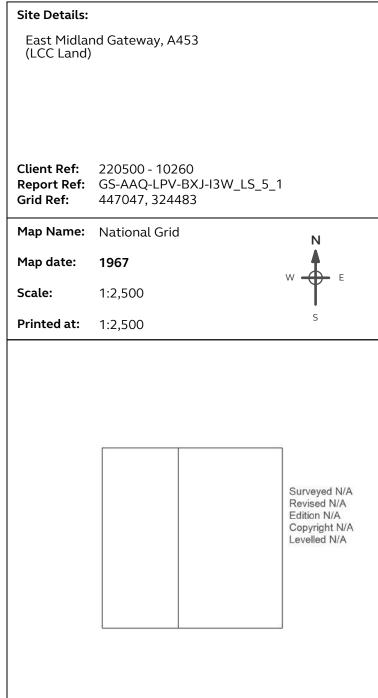
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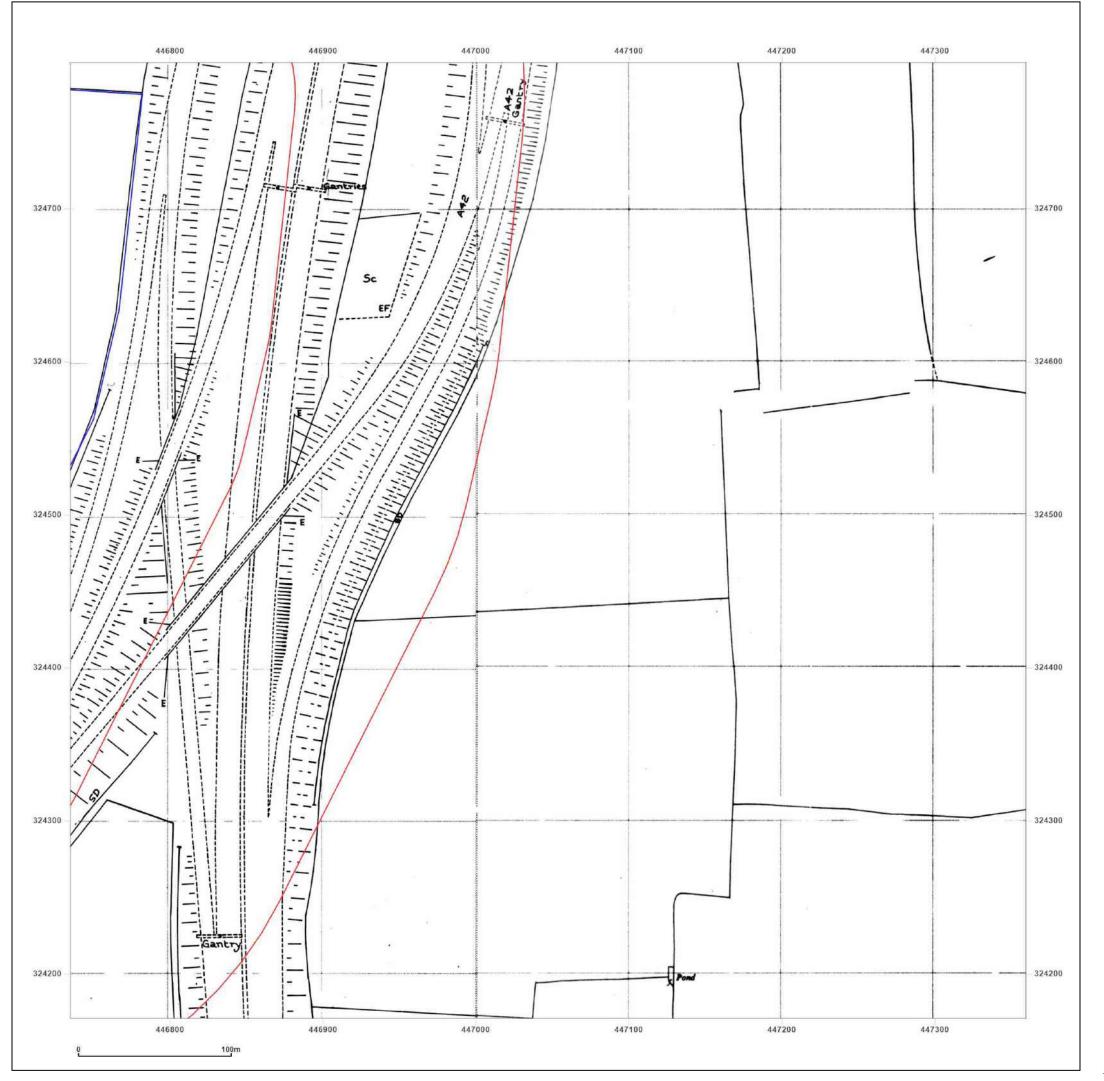




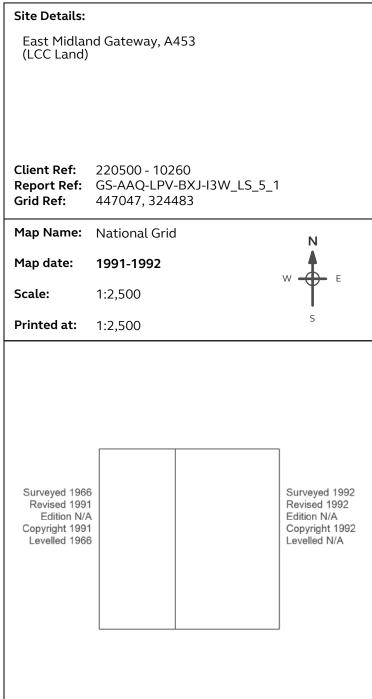
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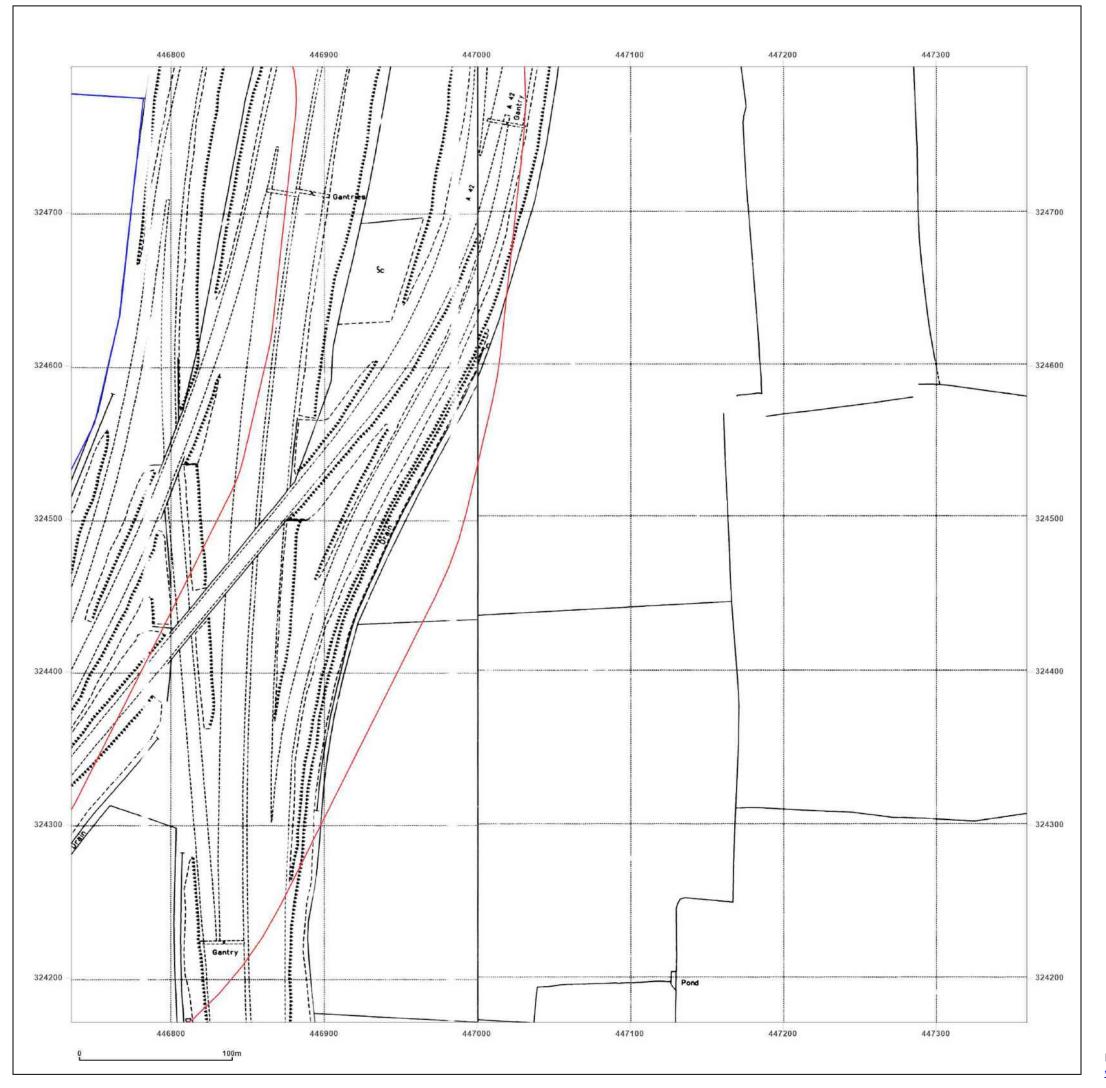




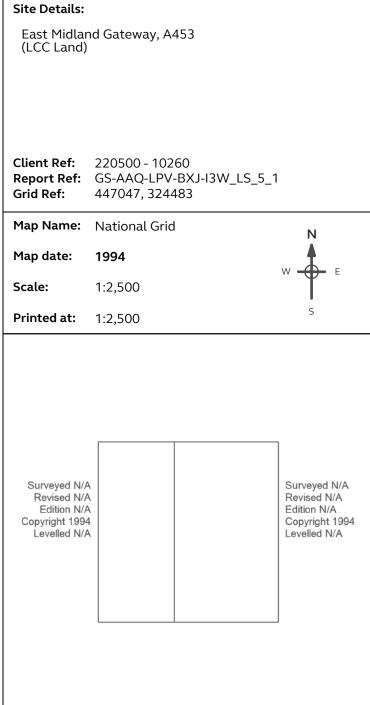
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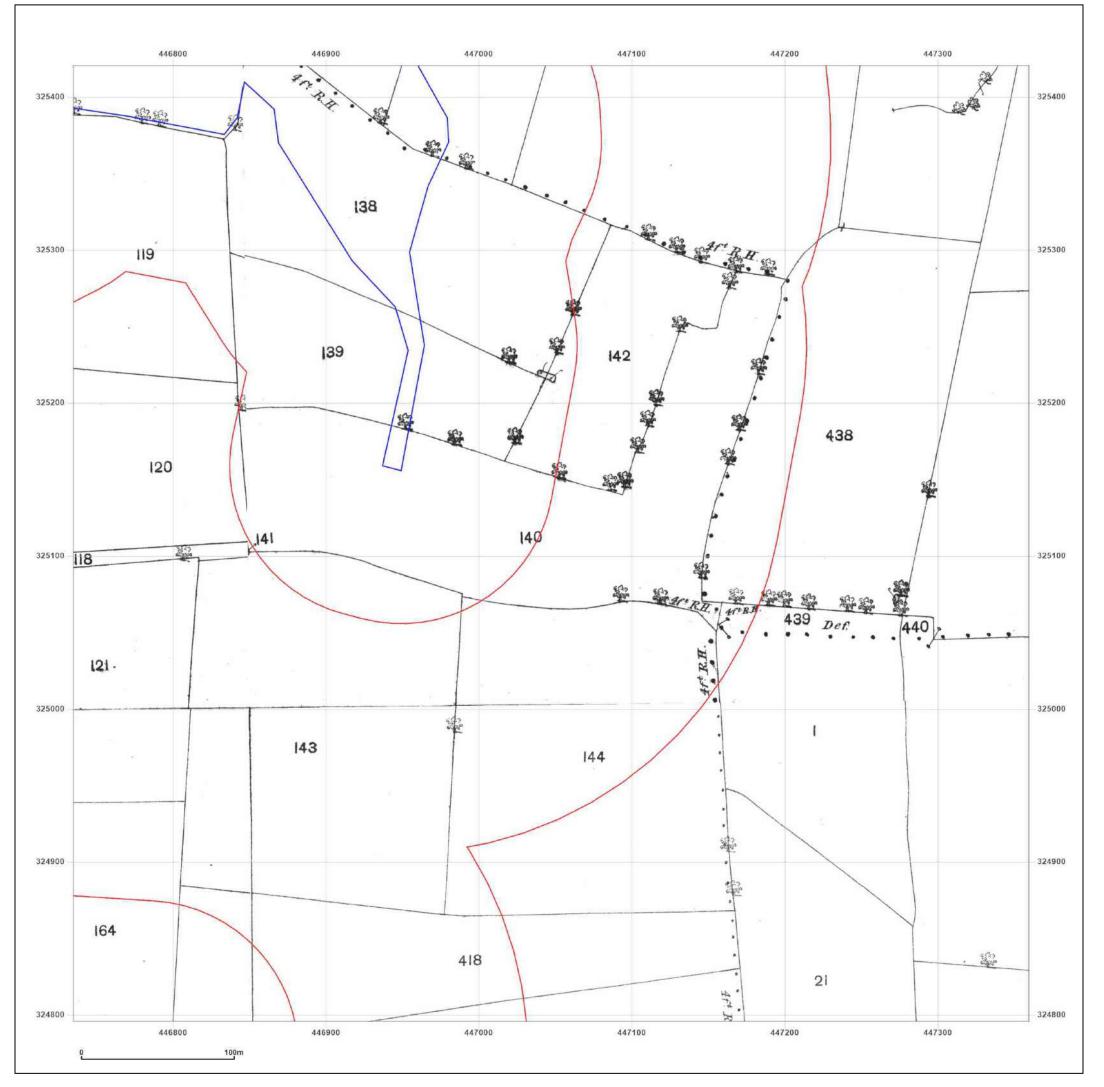




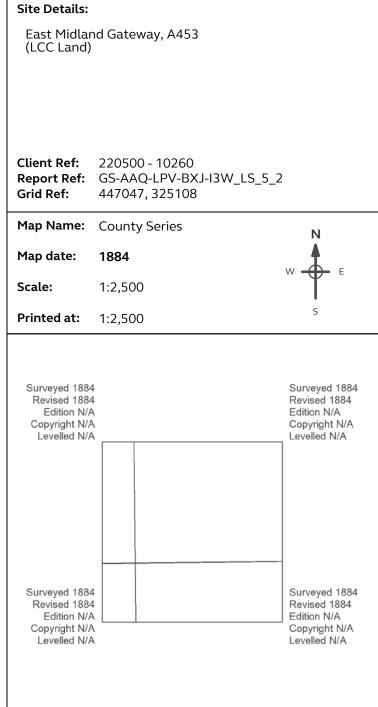
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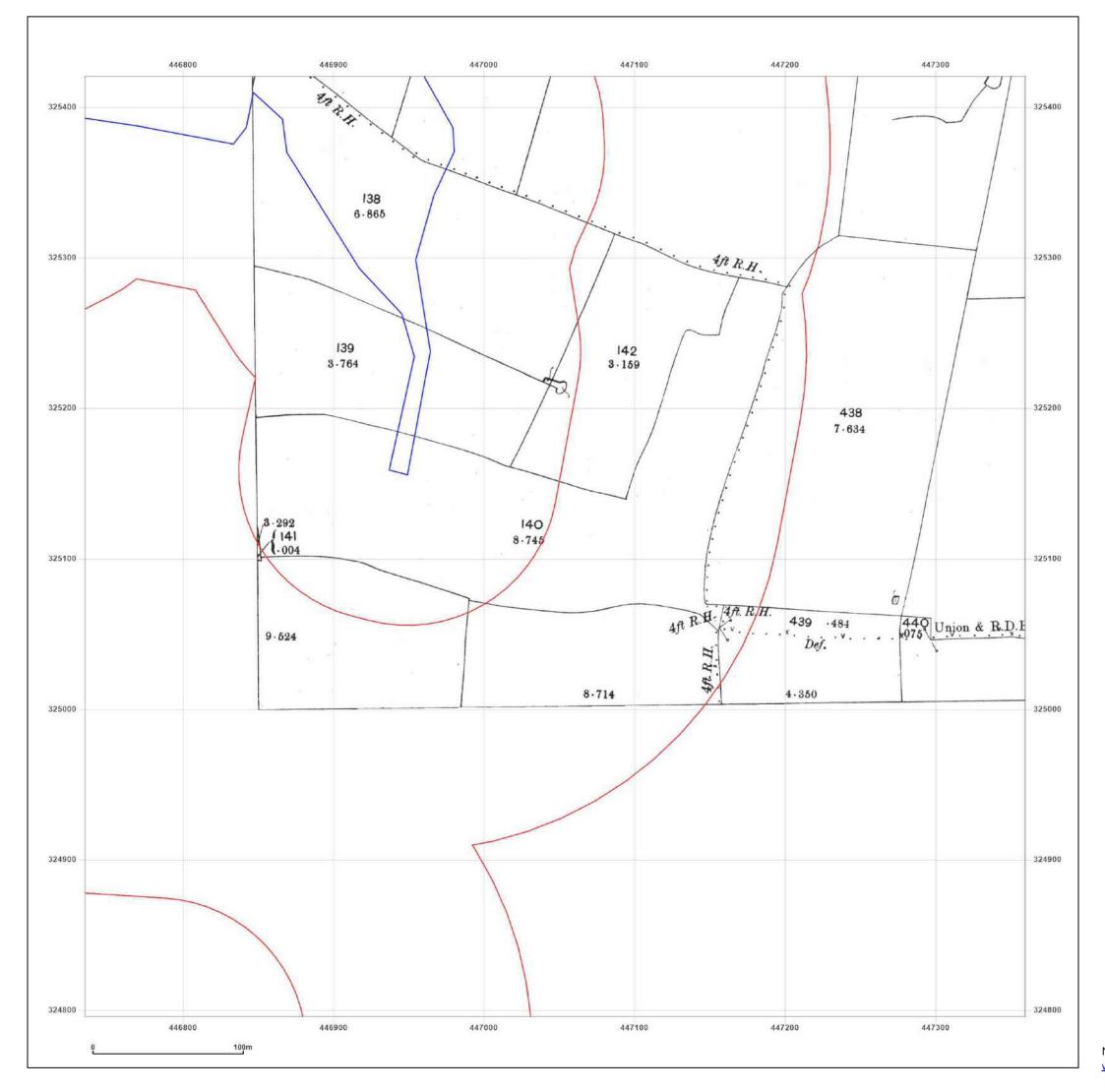




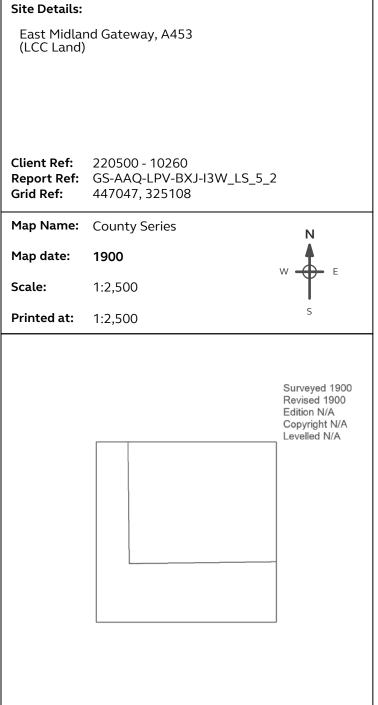
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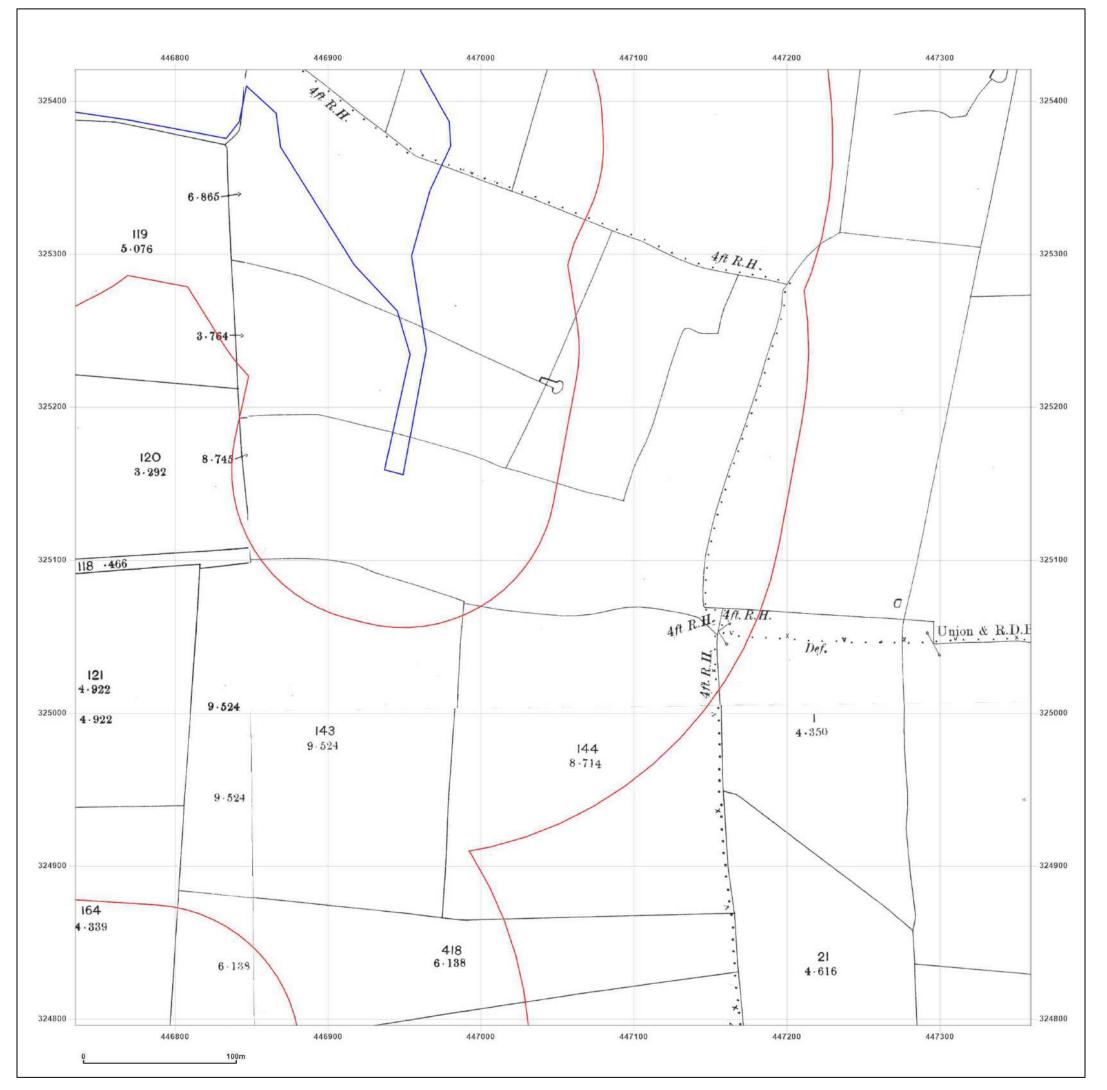




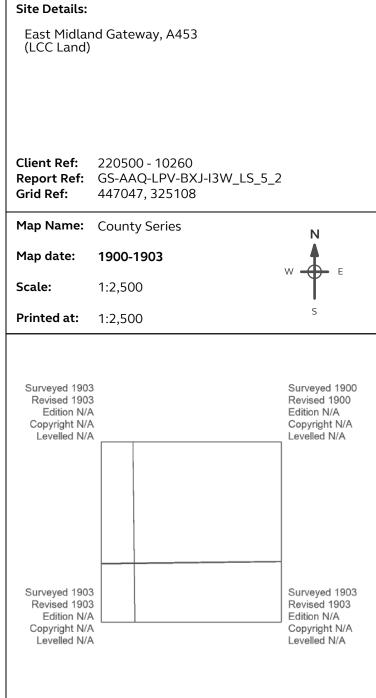
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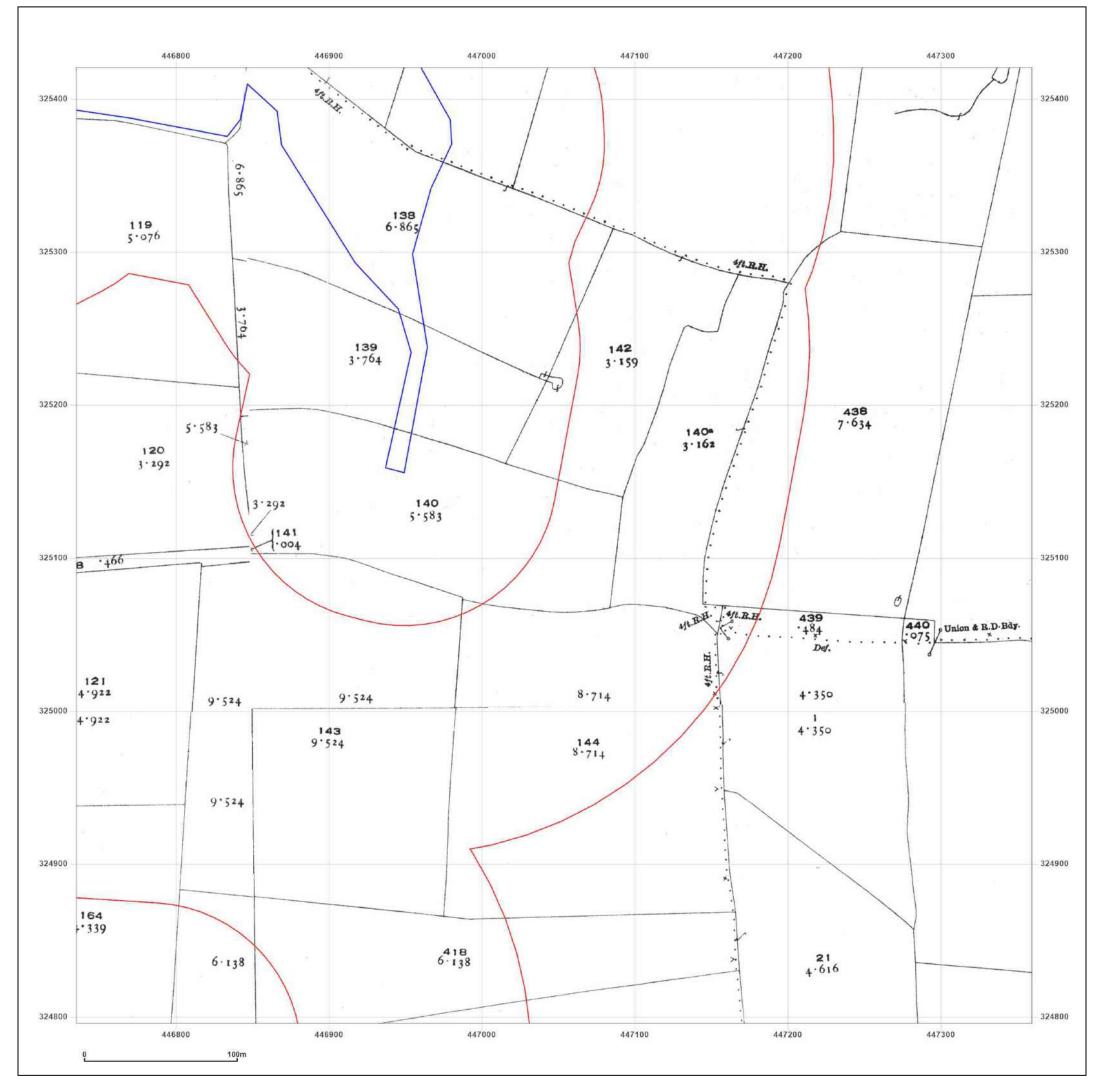




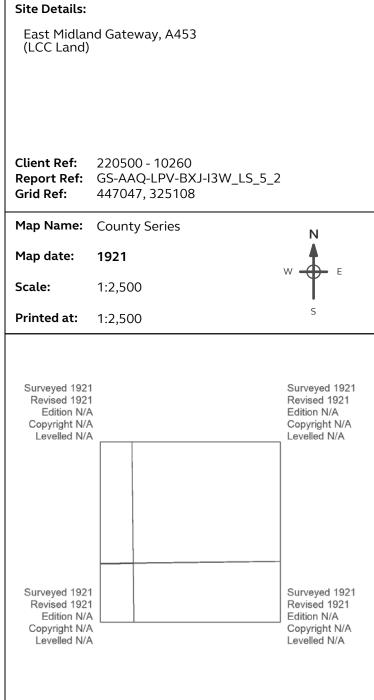
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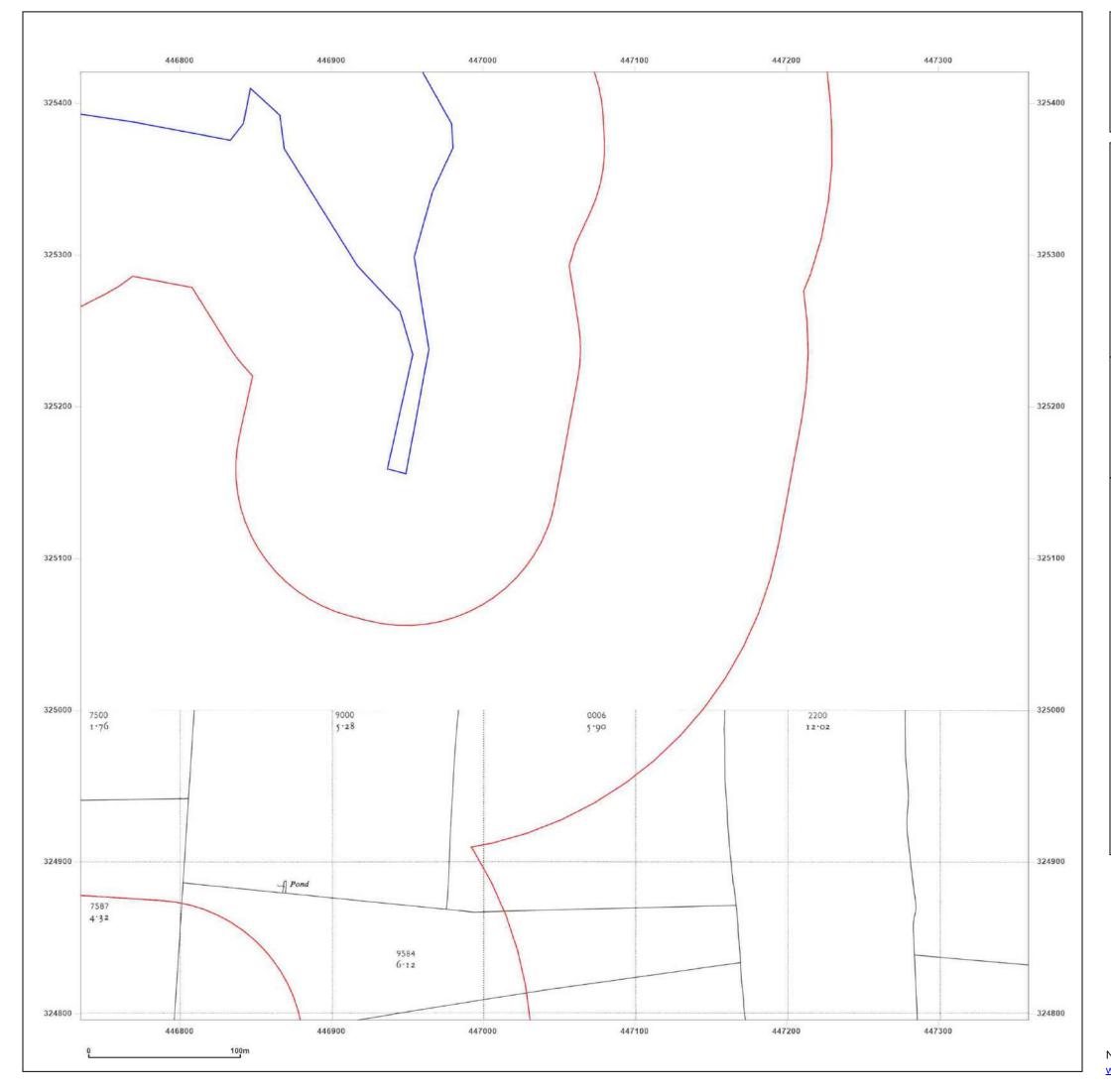




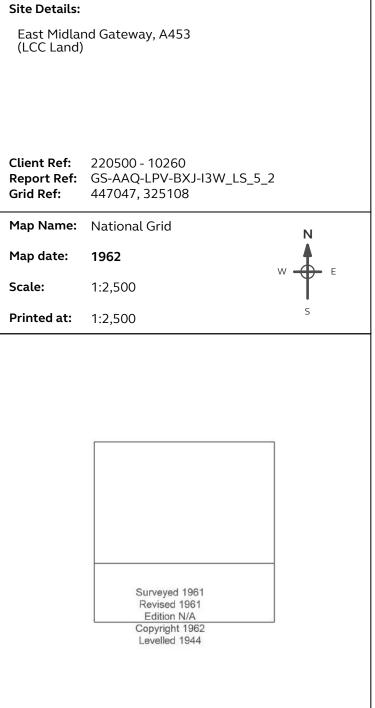
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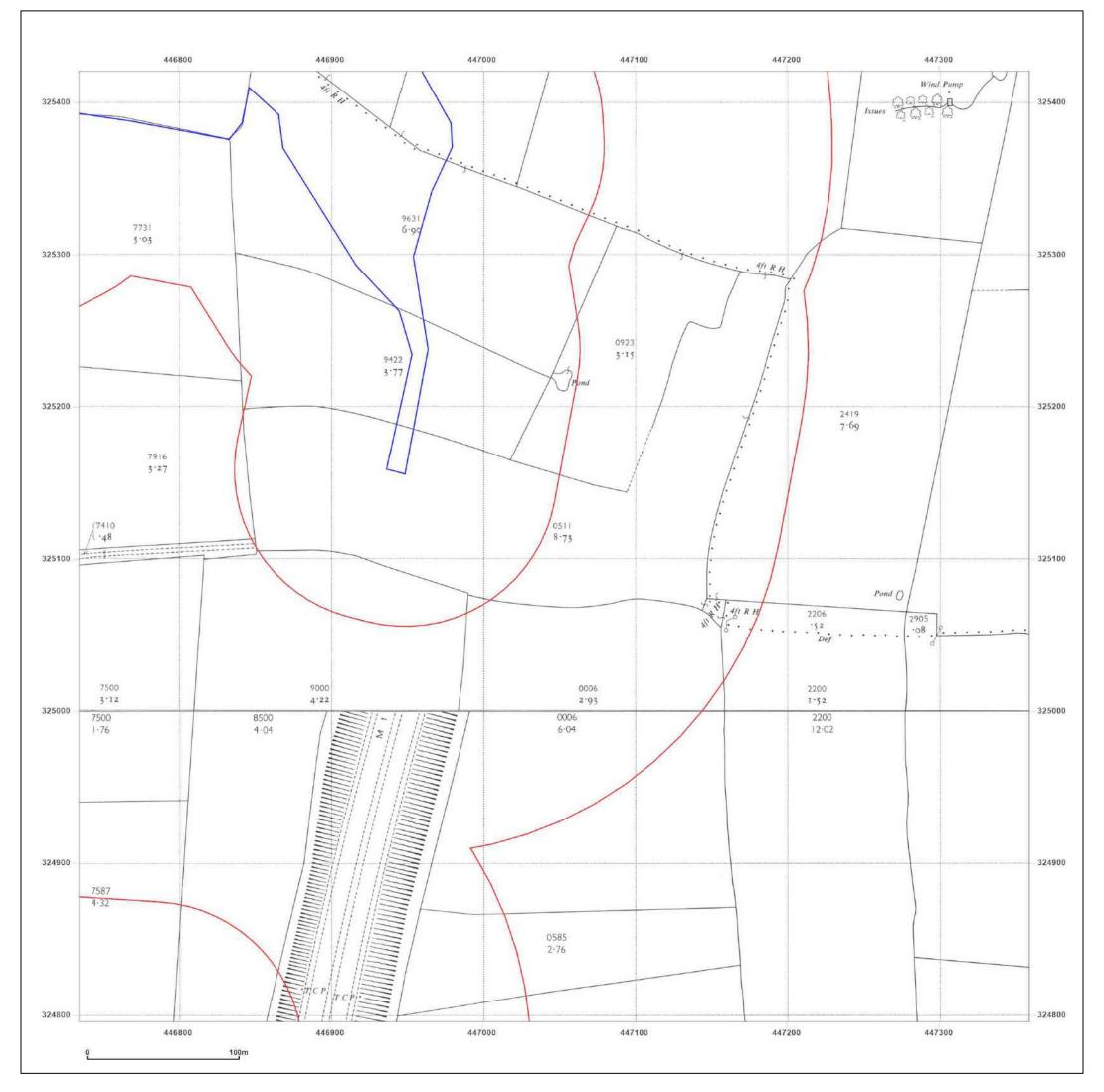




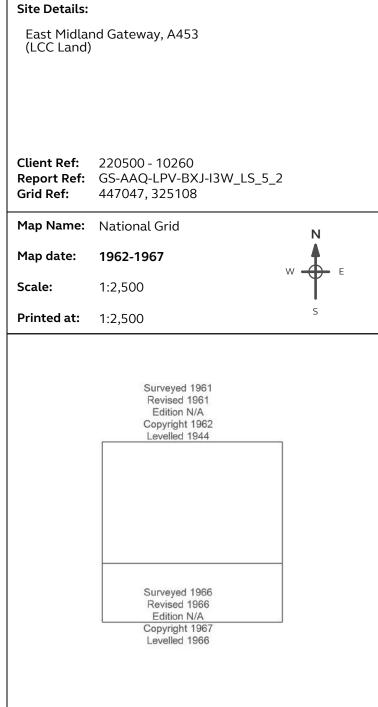
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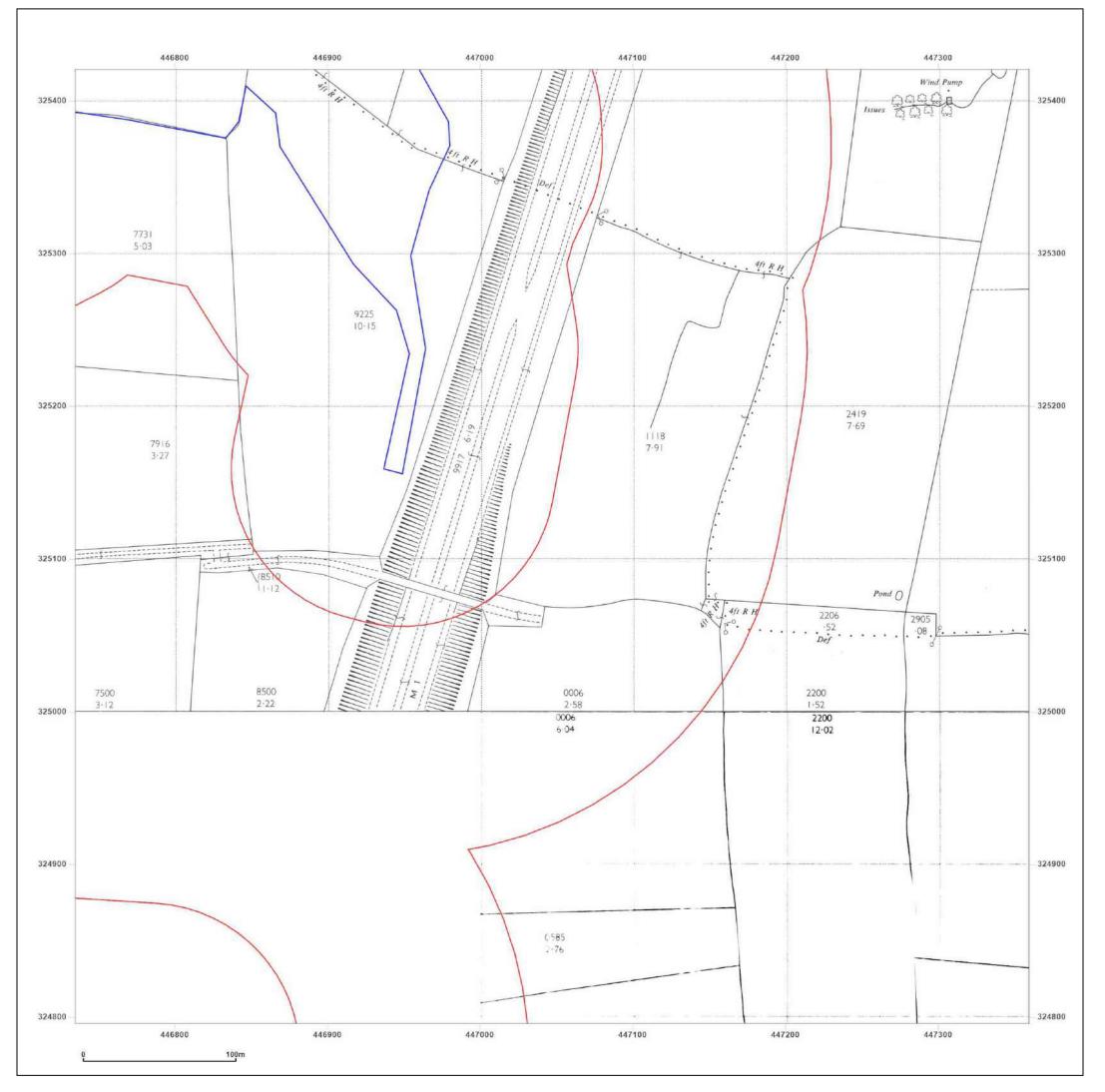




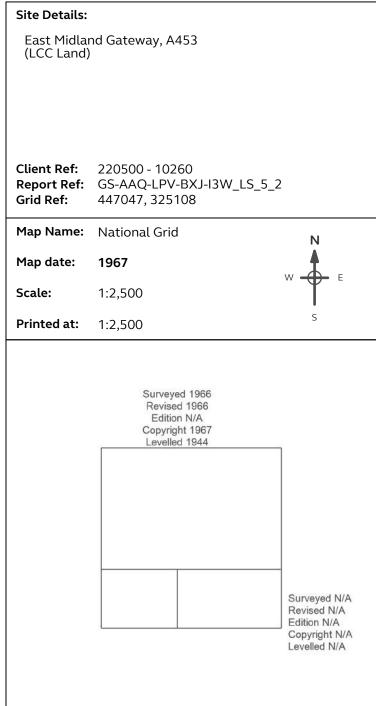
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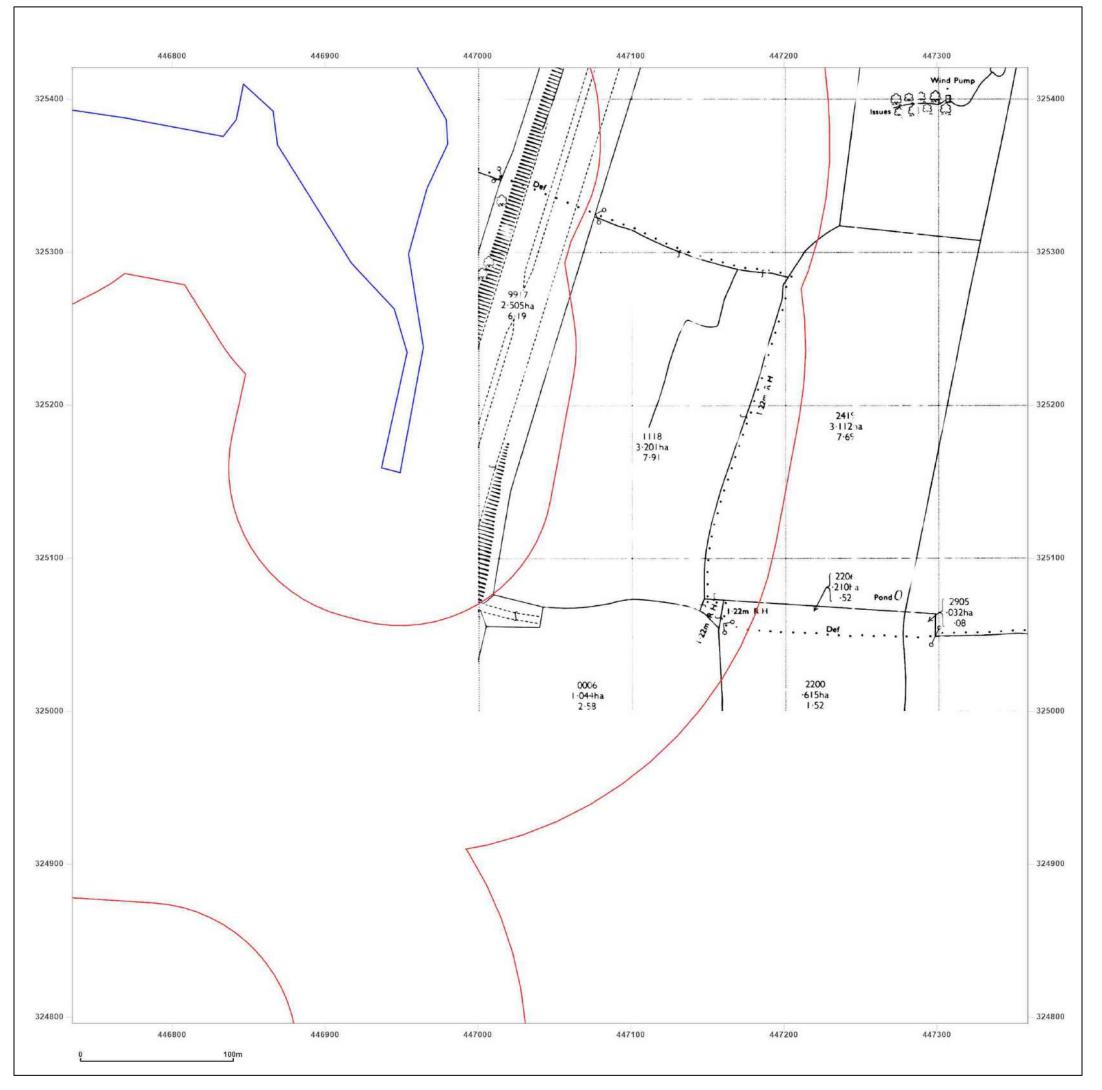




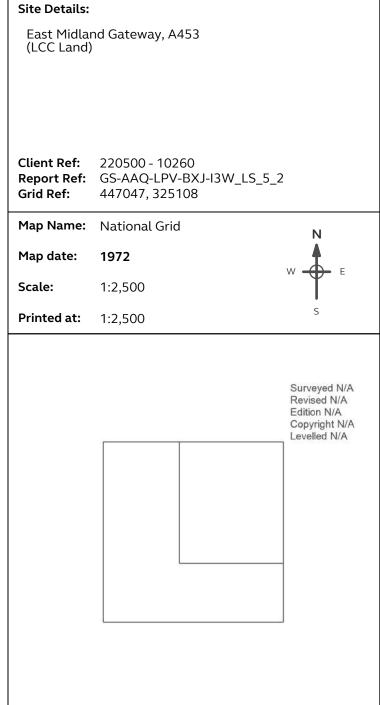
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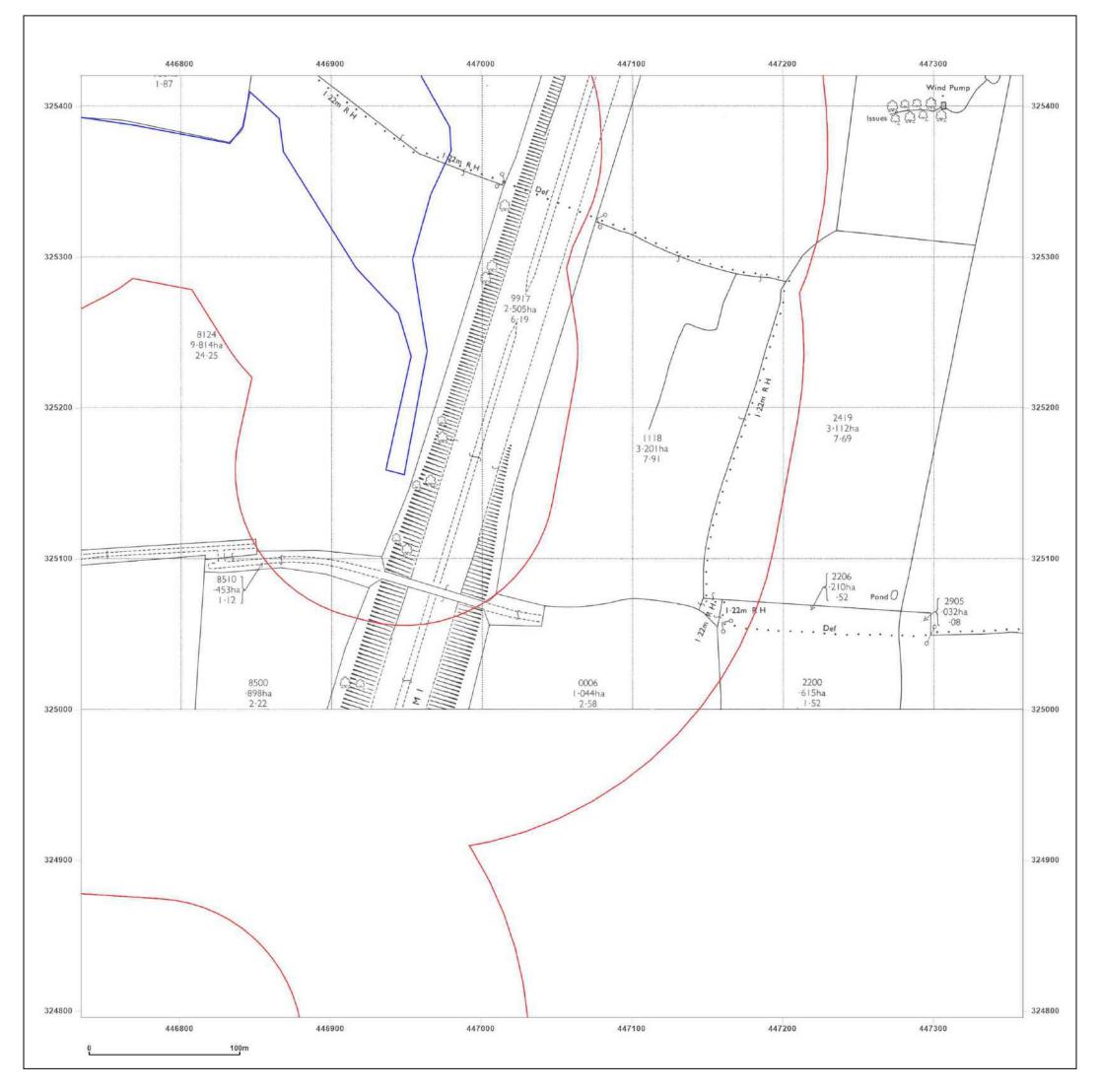




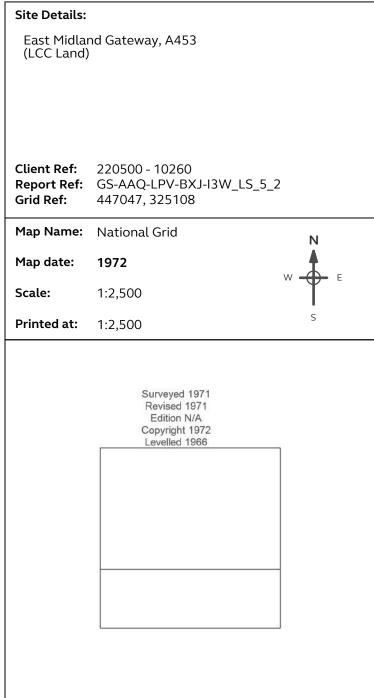
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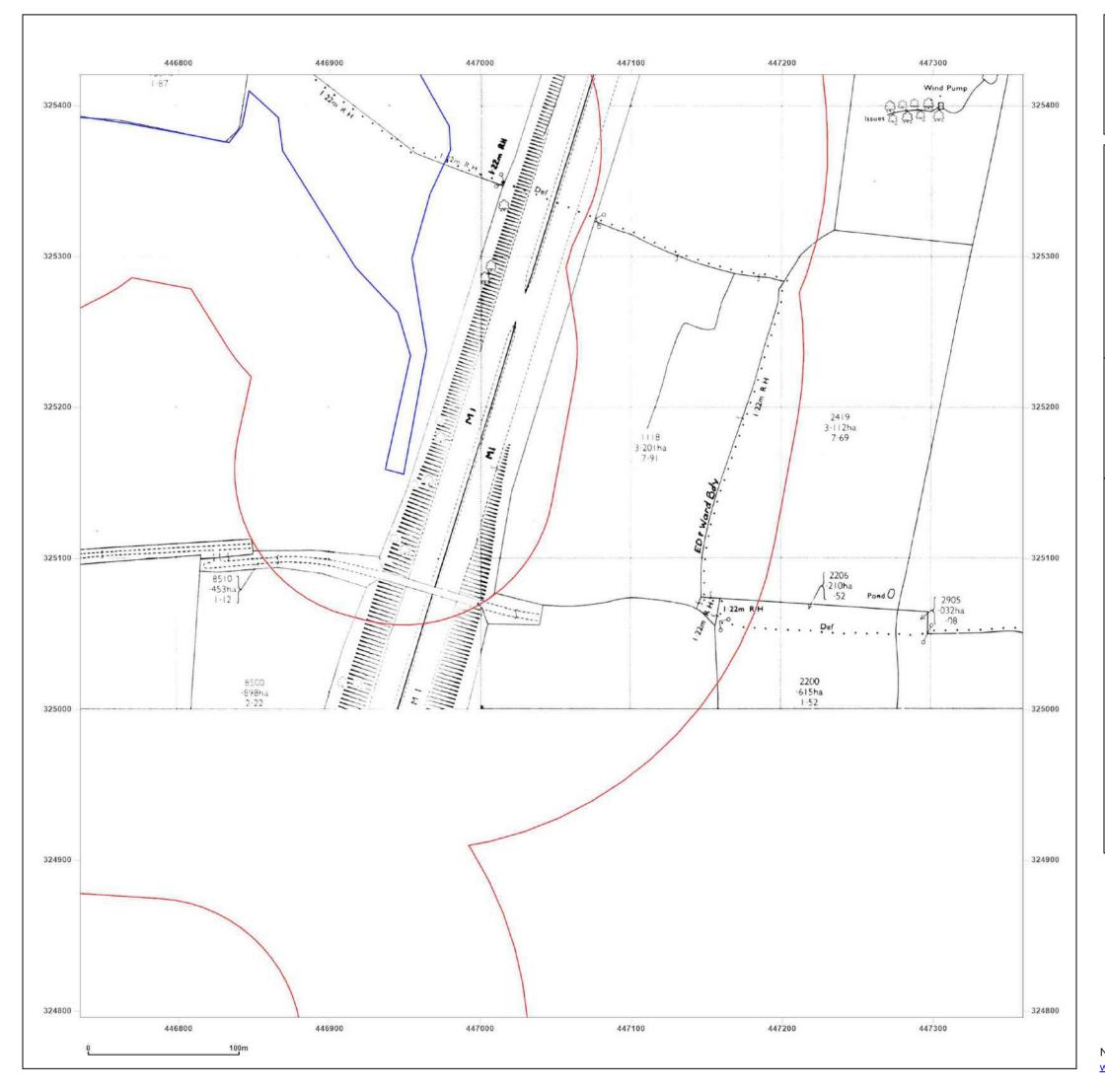




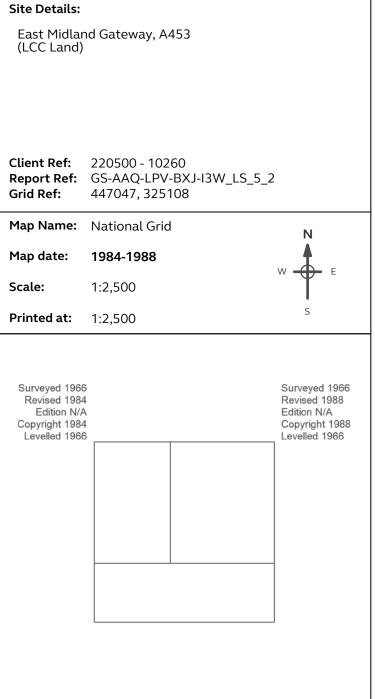
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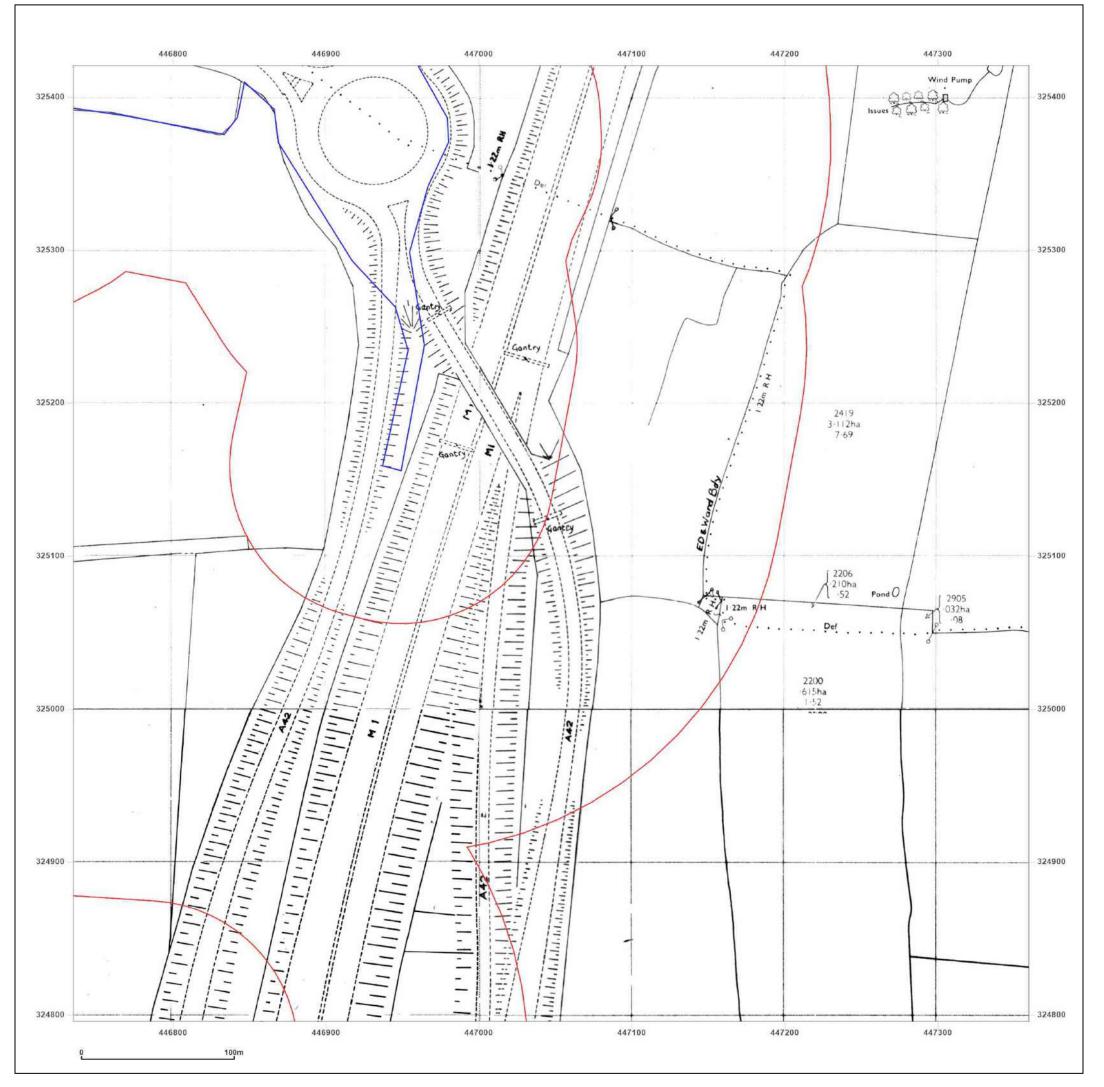




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## Site Details: East Midland Gateway, A453 (LCC Land) **Client Ref:** 220500 - 10260 **Report Ref:** GS-AAQ-LPV-BXJ-I3W\_LS\_5\_2 447047, 325108 **Grid Ref:** Map Name: National Grid 1991-1992 Map date: 1:2,500 Scale: **Printed at:** 1:2,500 Surveyed 1991 Surveyed 1966 Revised 1991 Revised 1991 Edition N/A Edition N/A Copyright 1991 Copyright 1991 Levelled 1966 Levelled N/A Surveyed 1966 Surveyed 1992 Revised 1991 Revised 1992 Edition N/A Copyright 1991 Copyright 1992 Levelled 1966 Levelled N/A

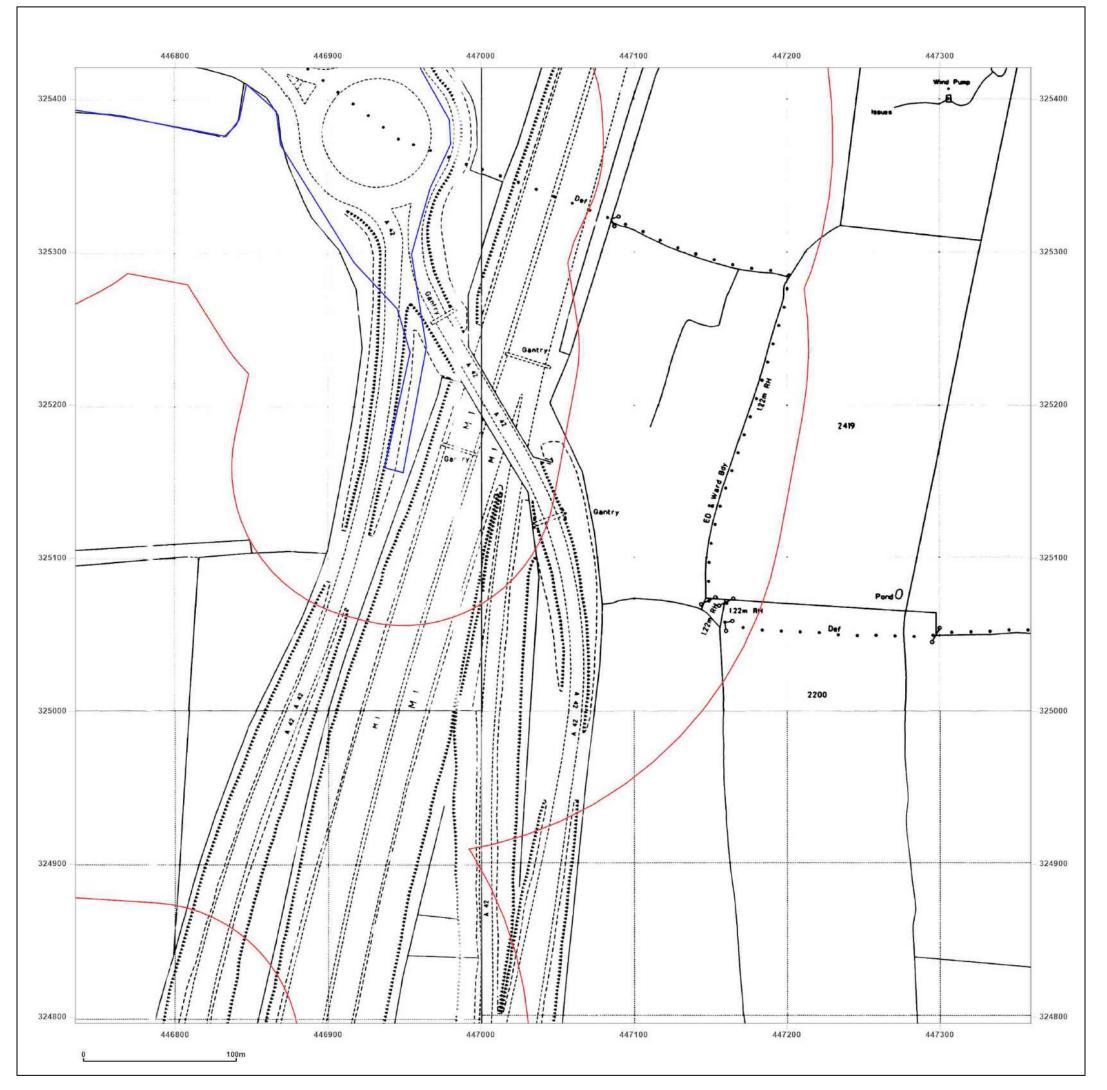


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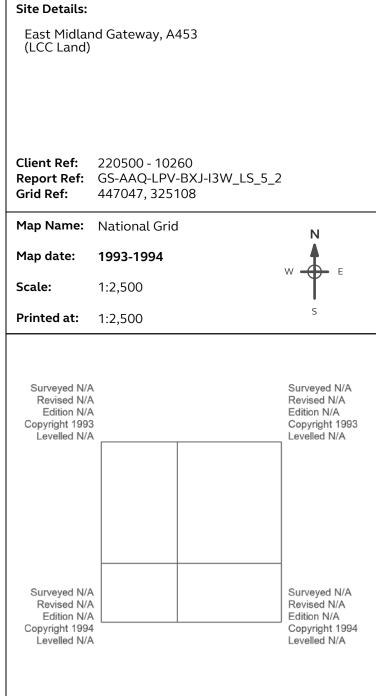
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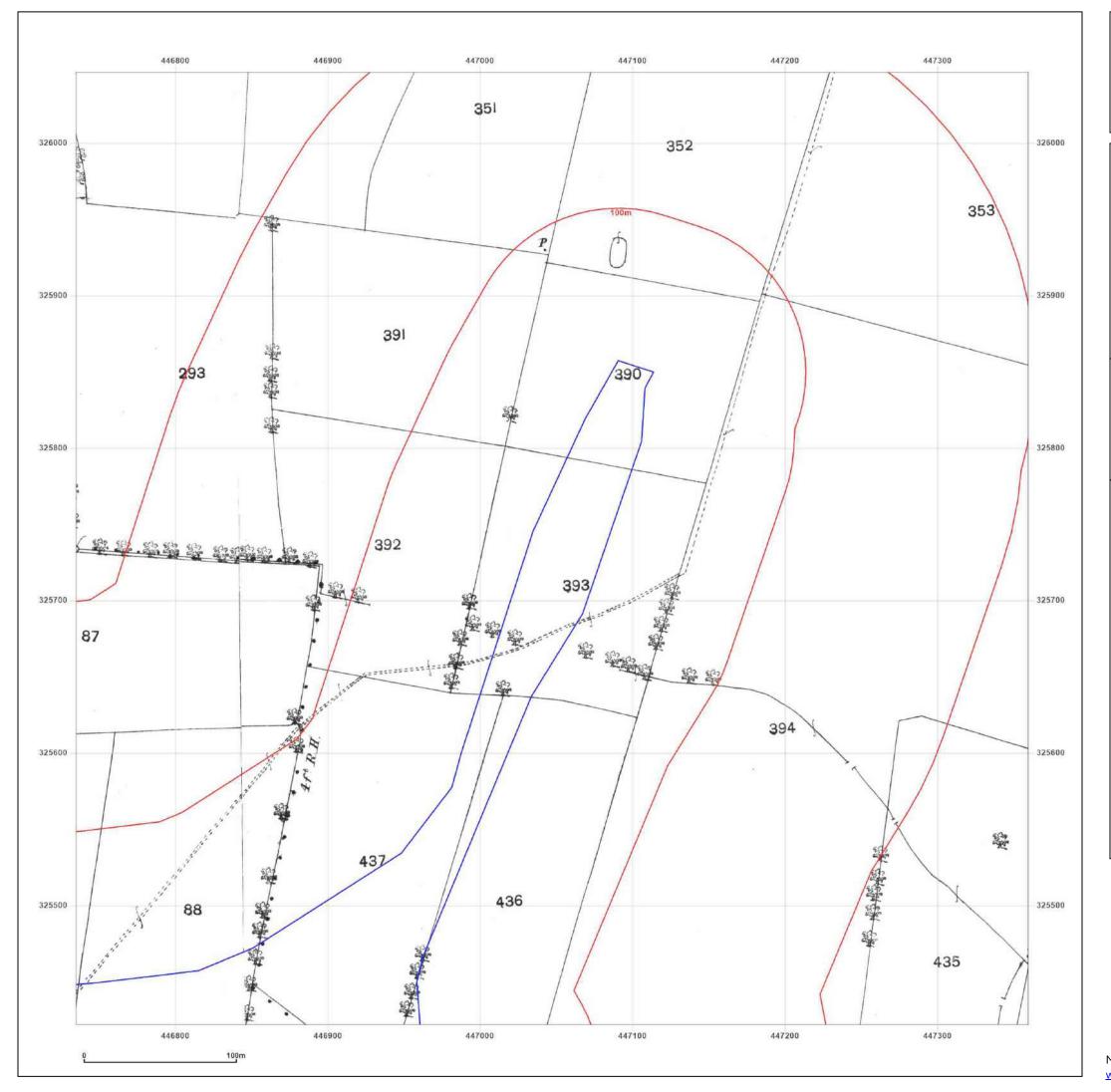




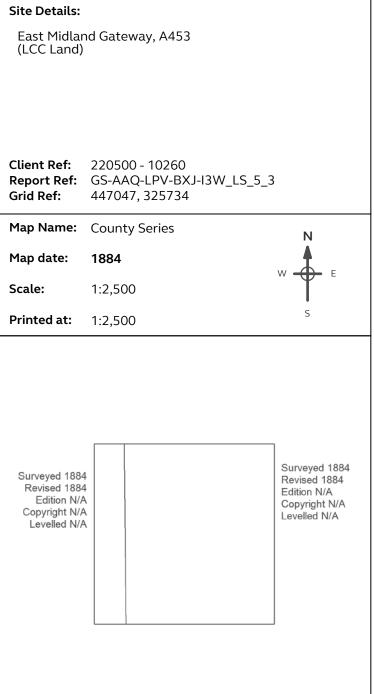
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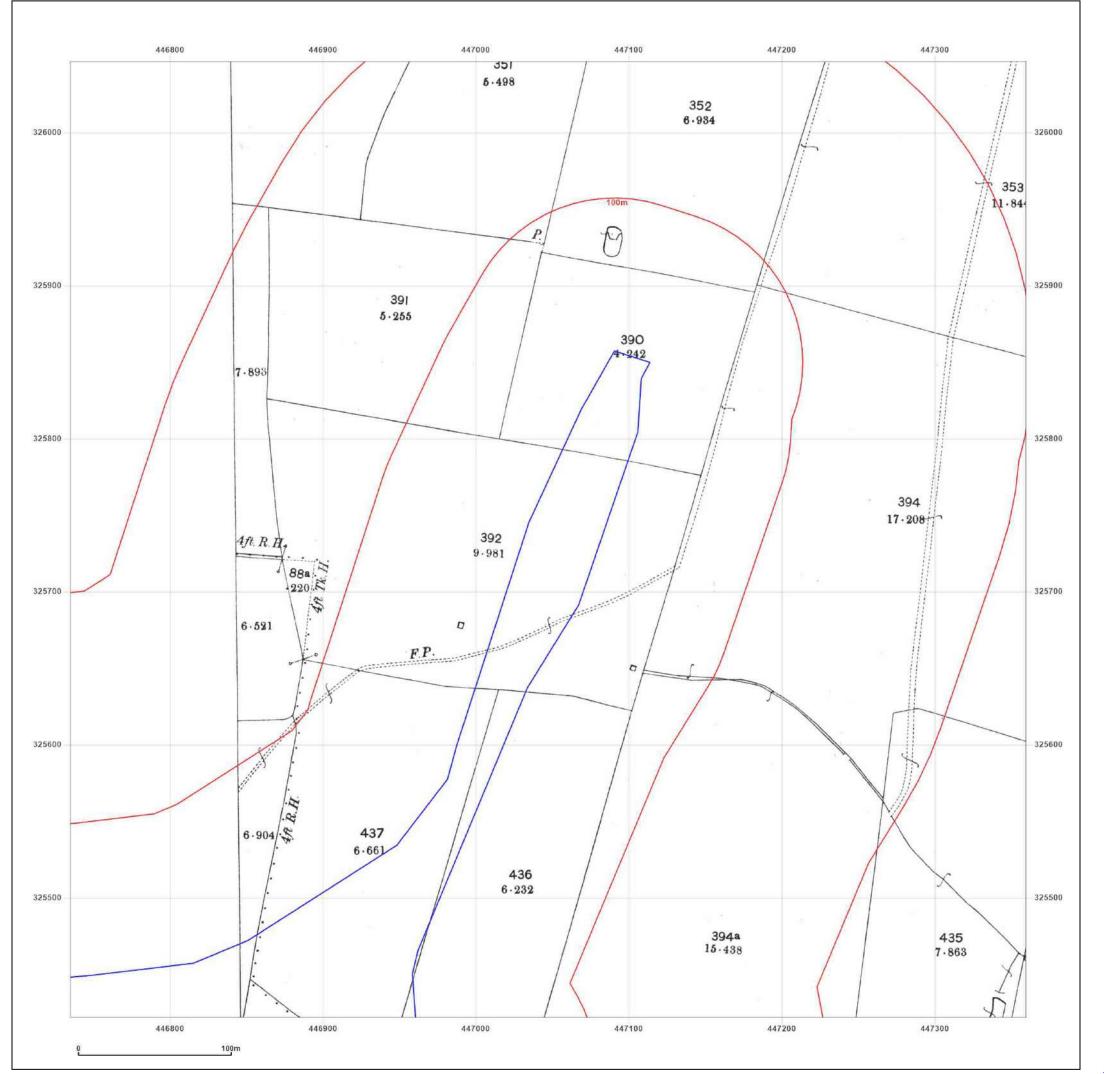




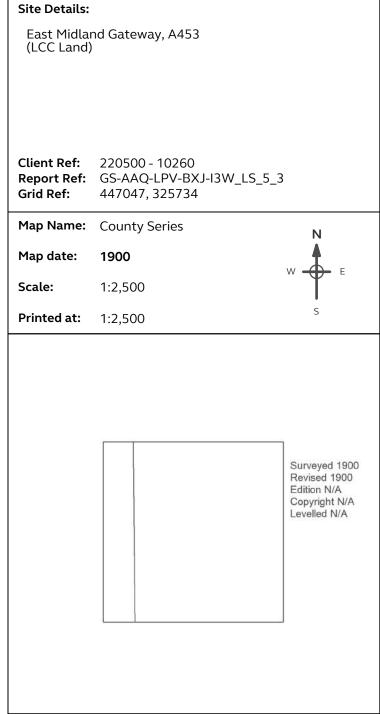
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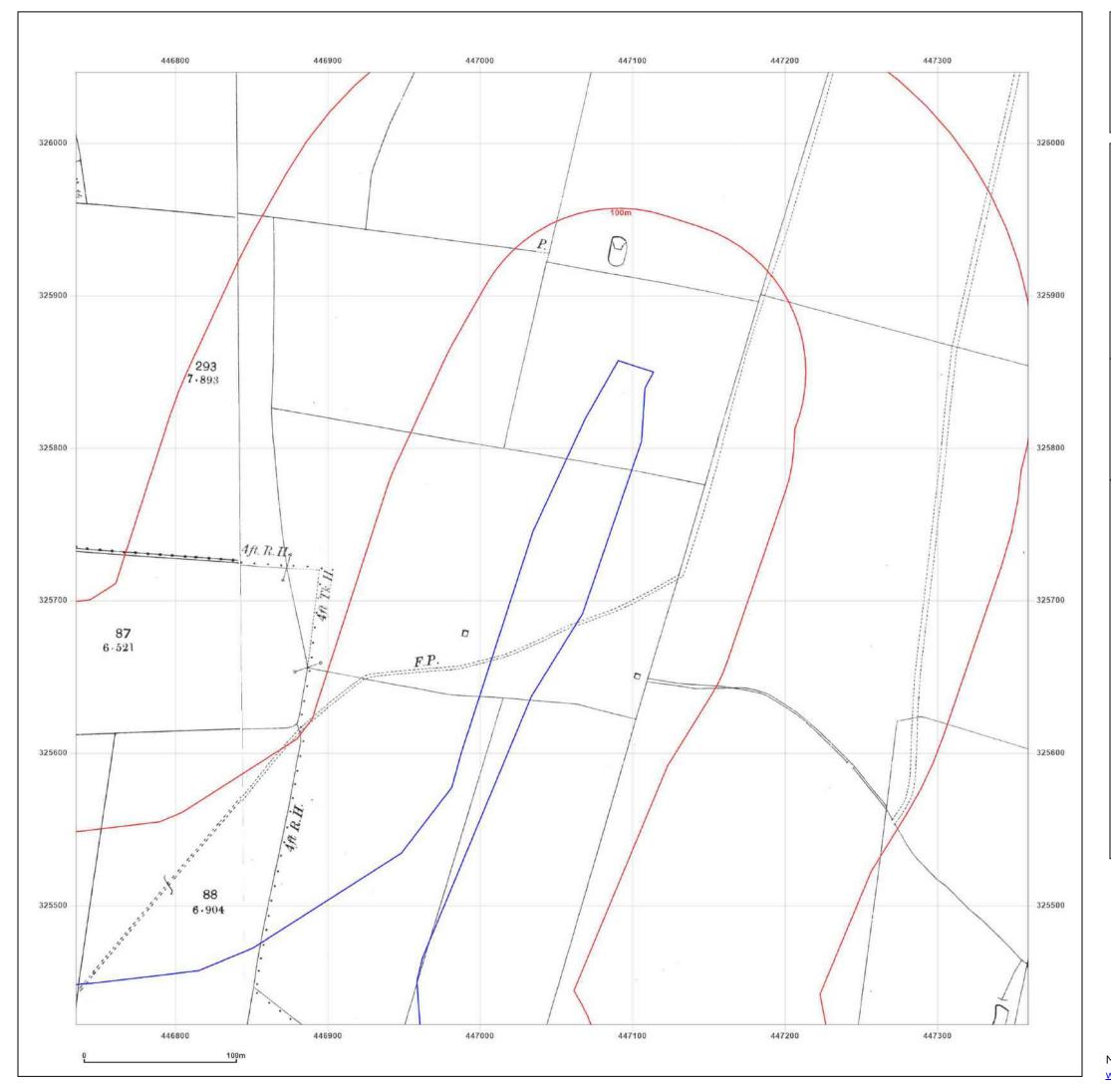




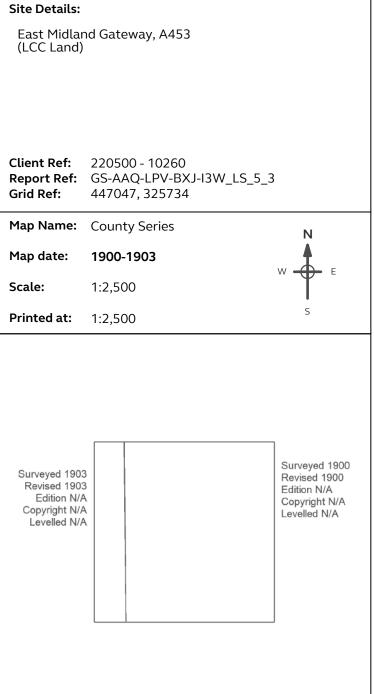
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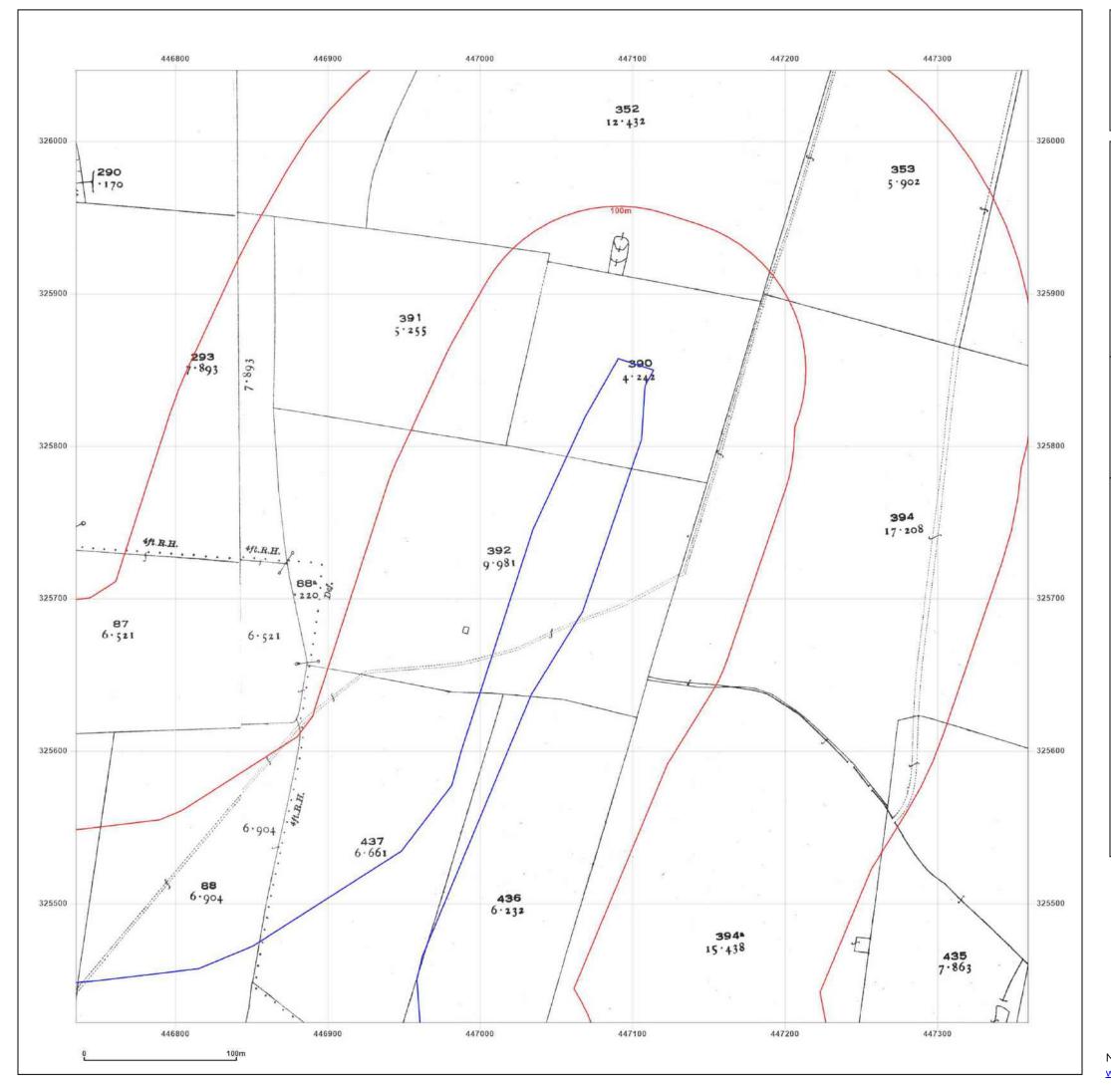




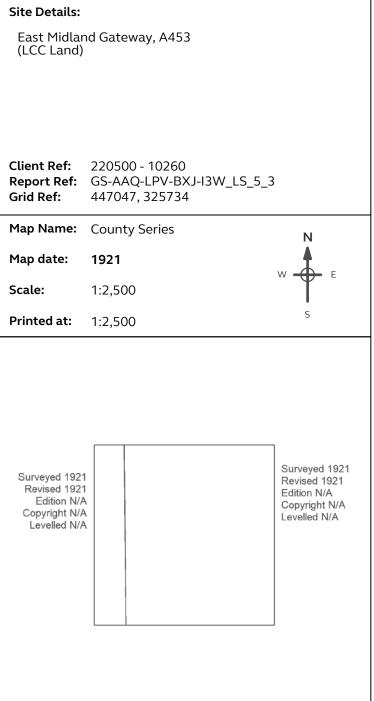
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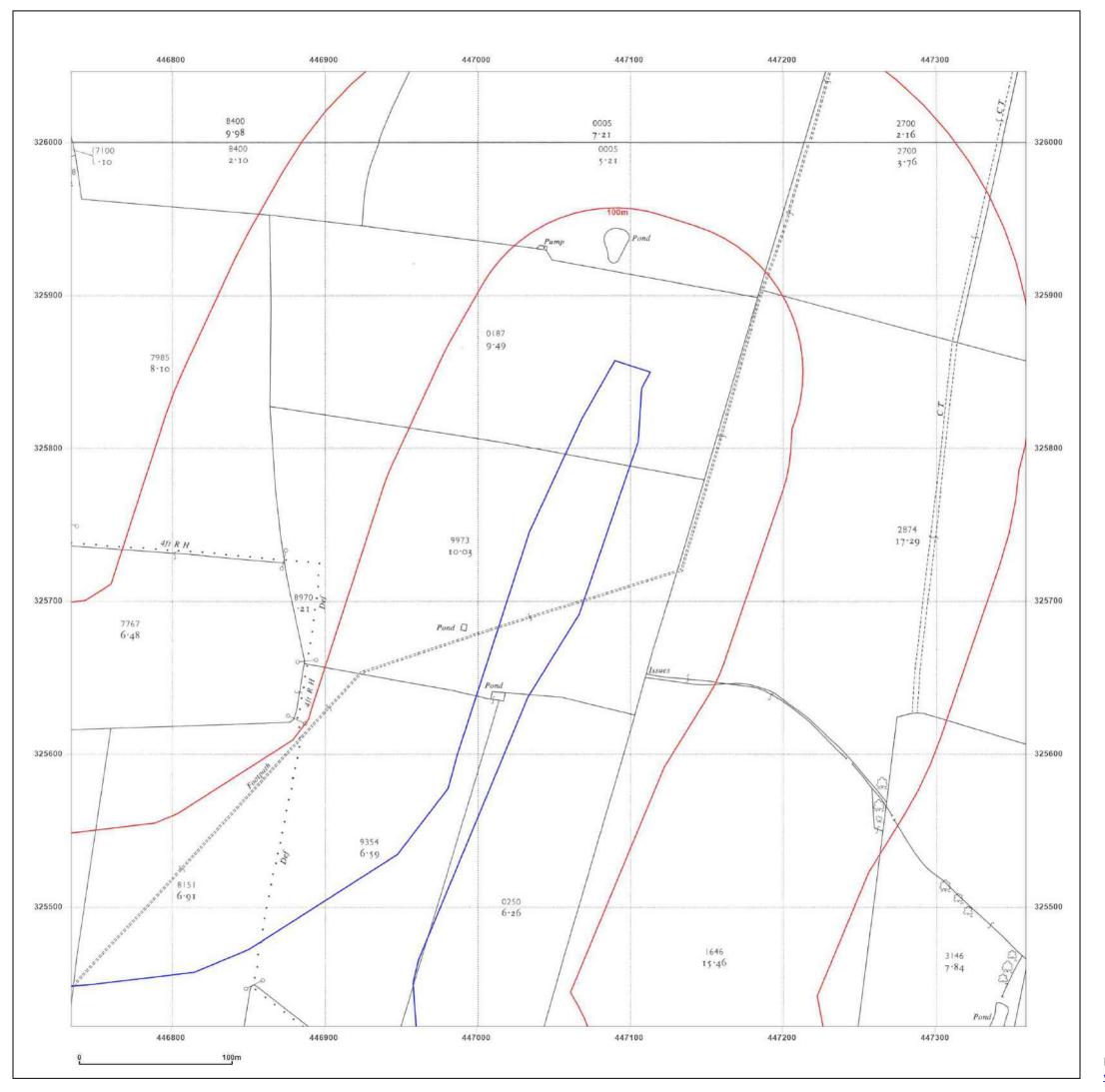




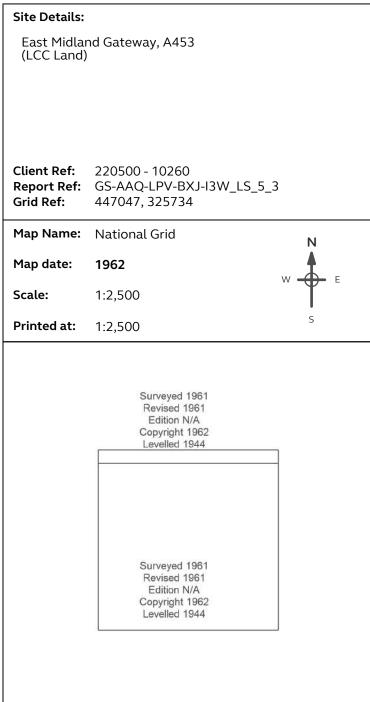
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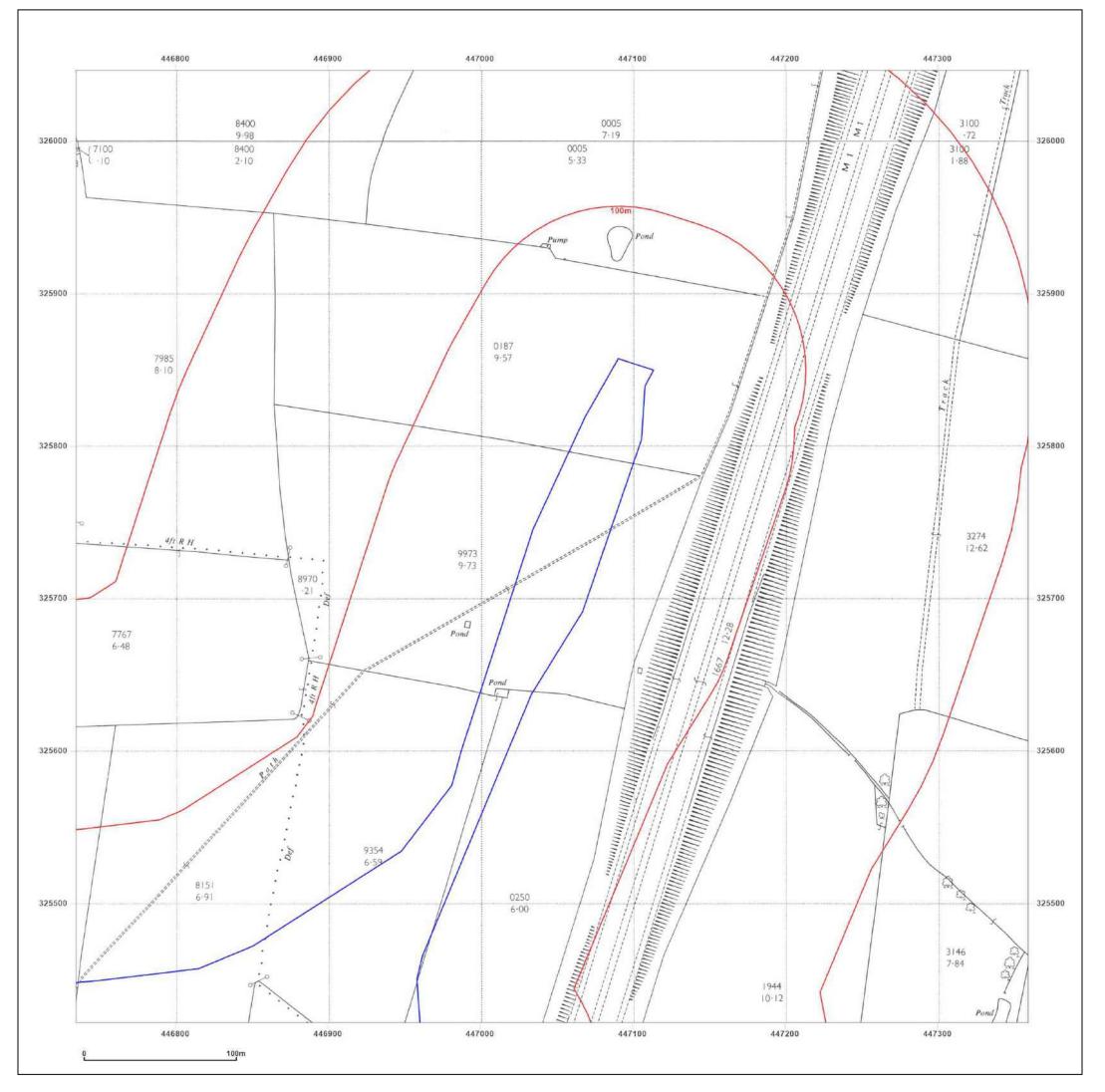




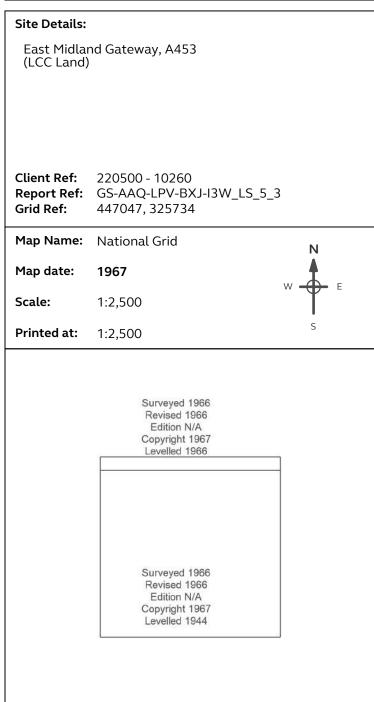
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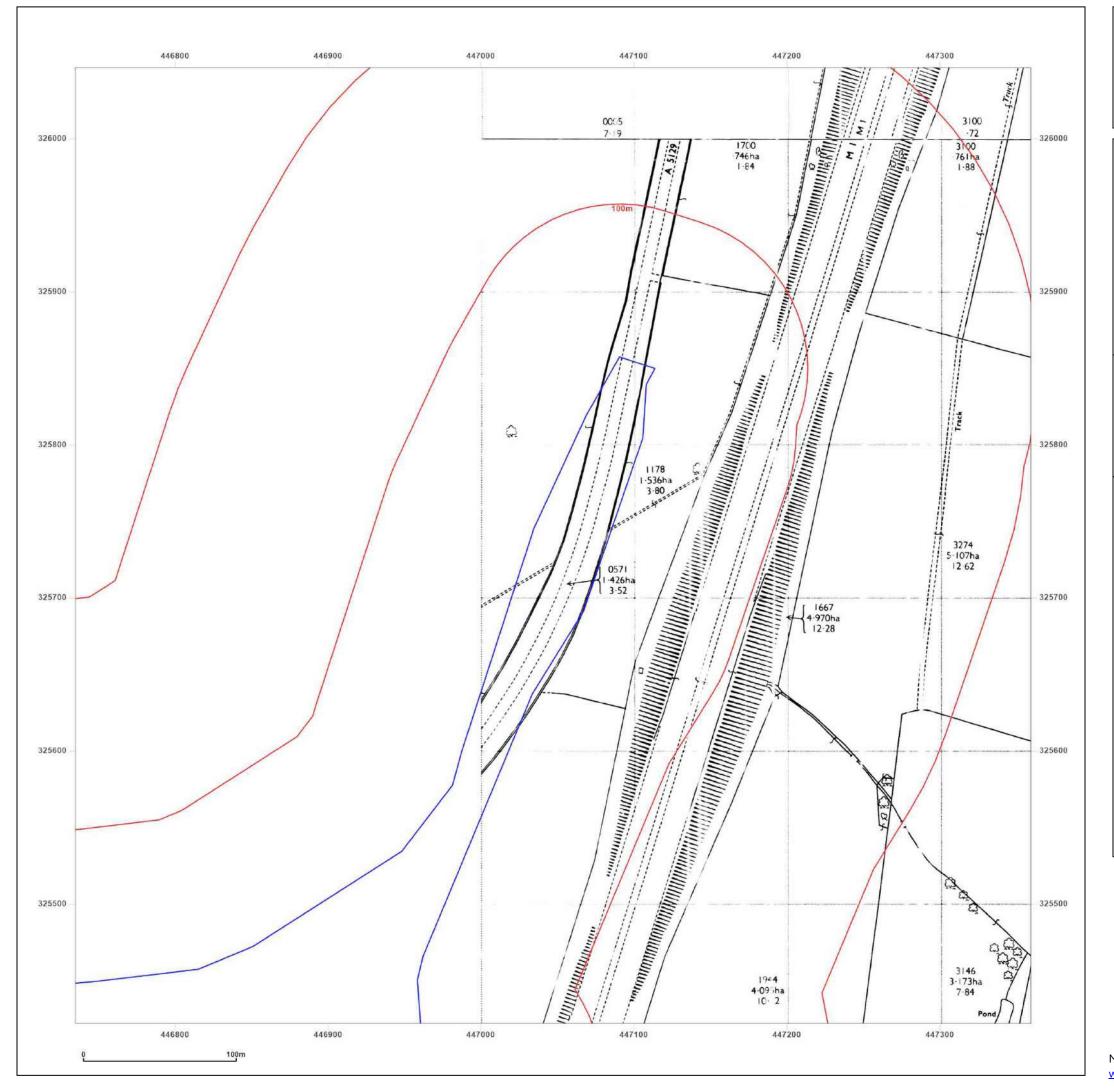




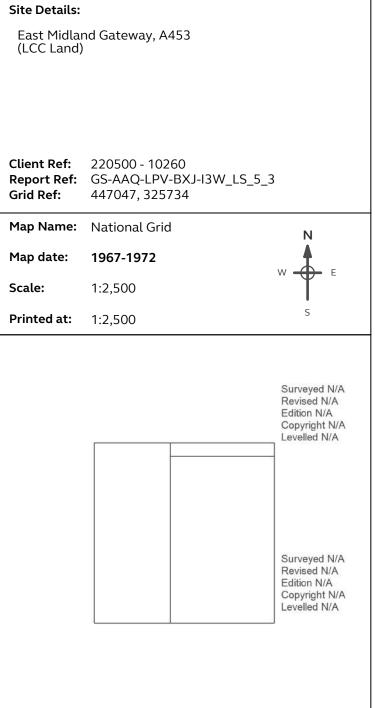
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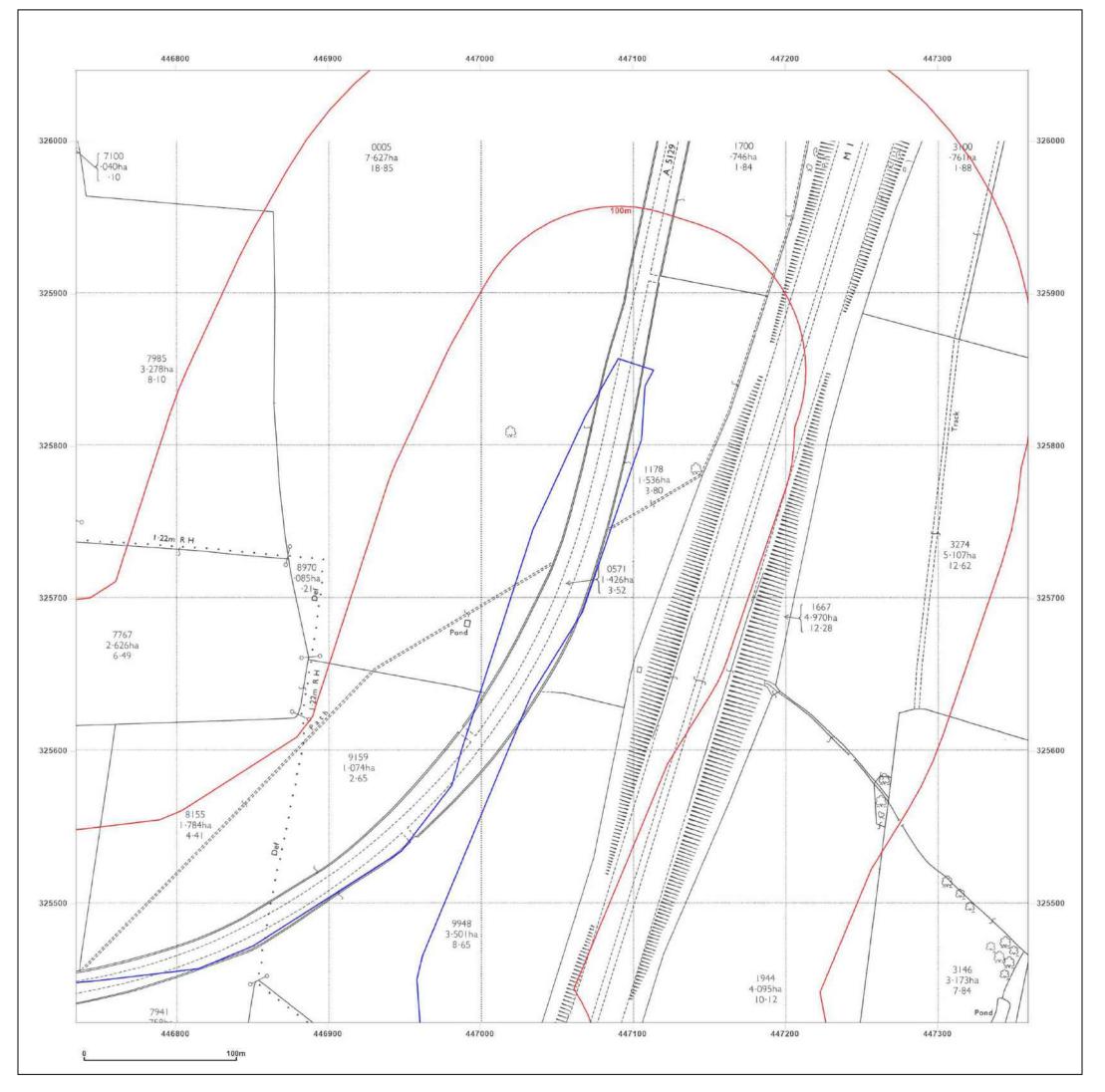




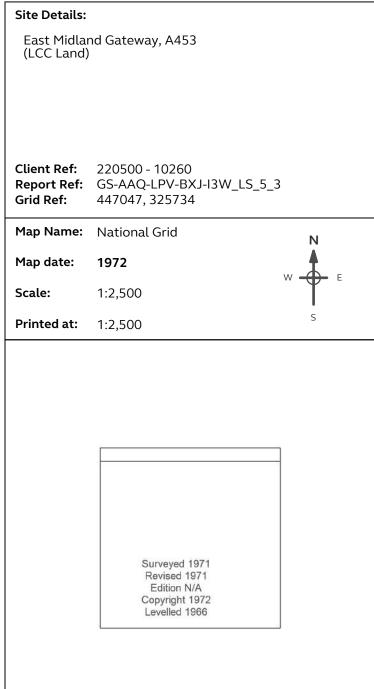
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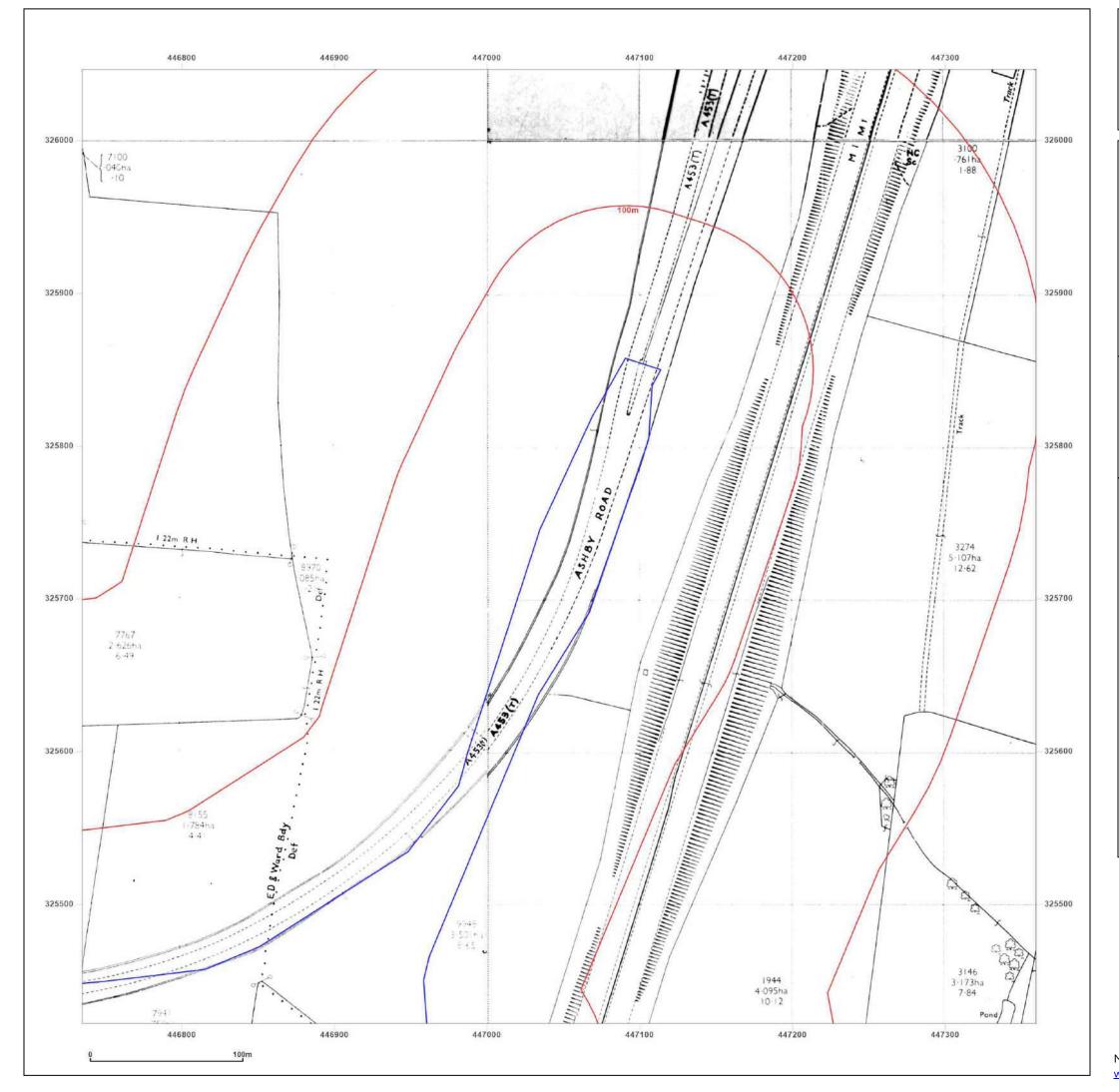




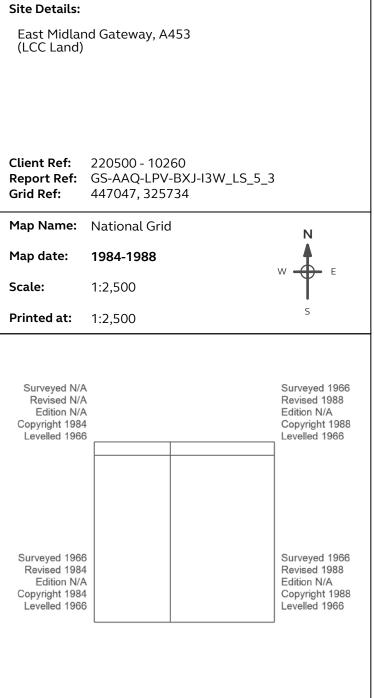
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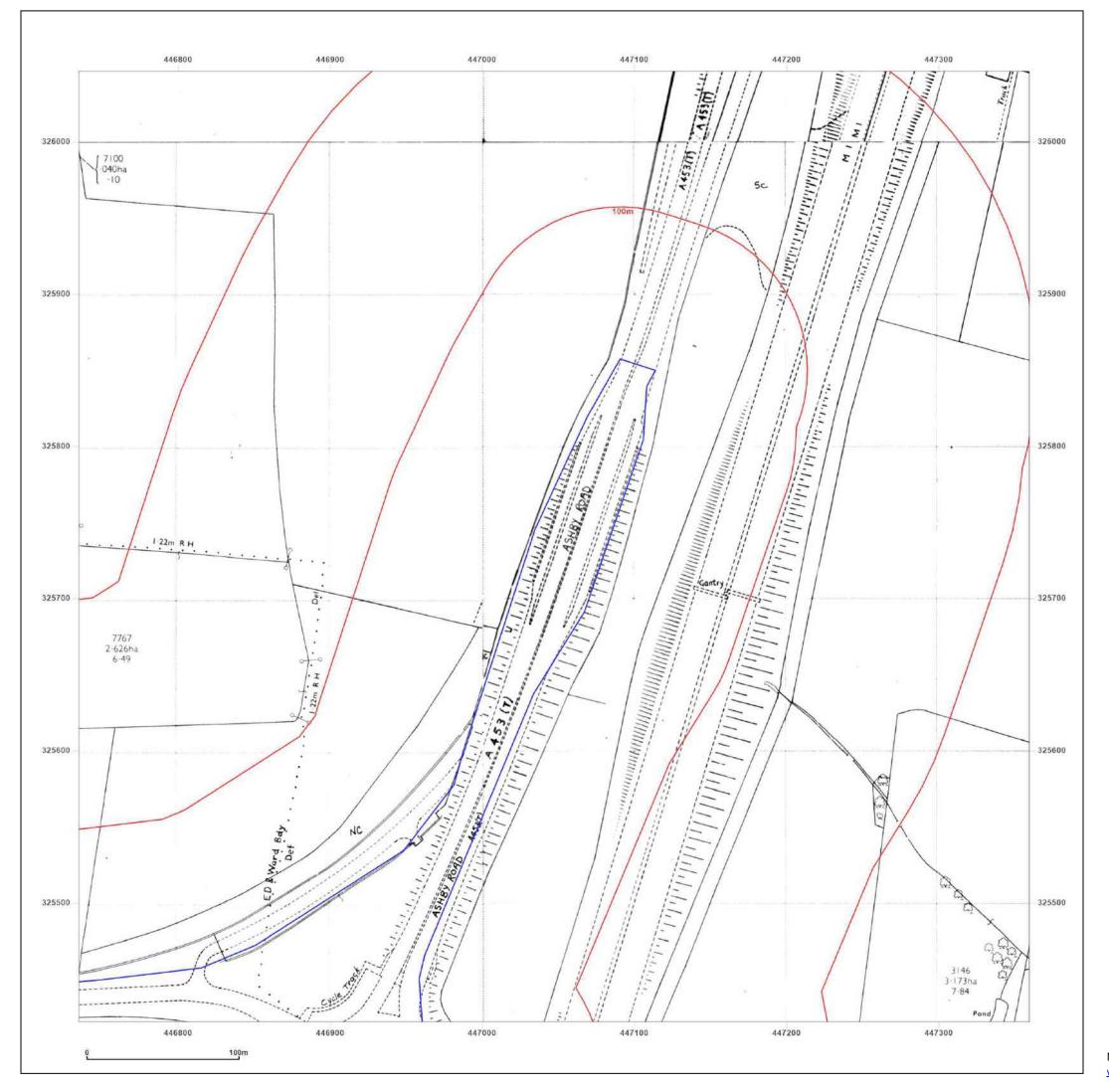




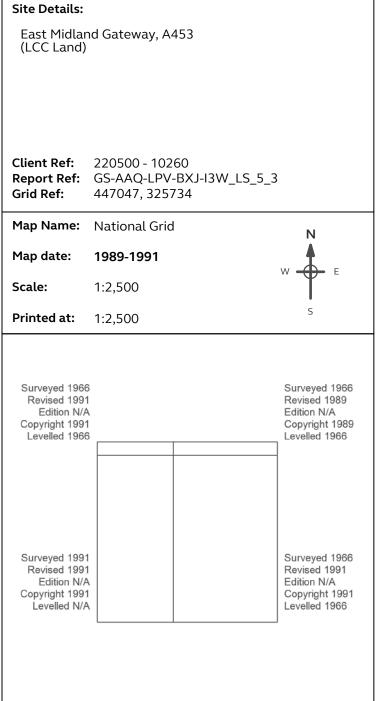
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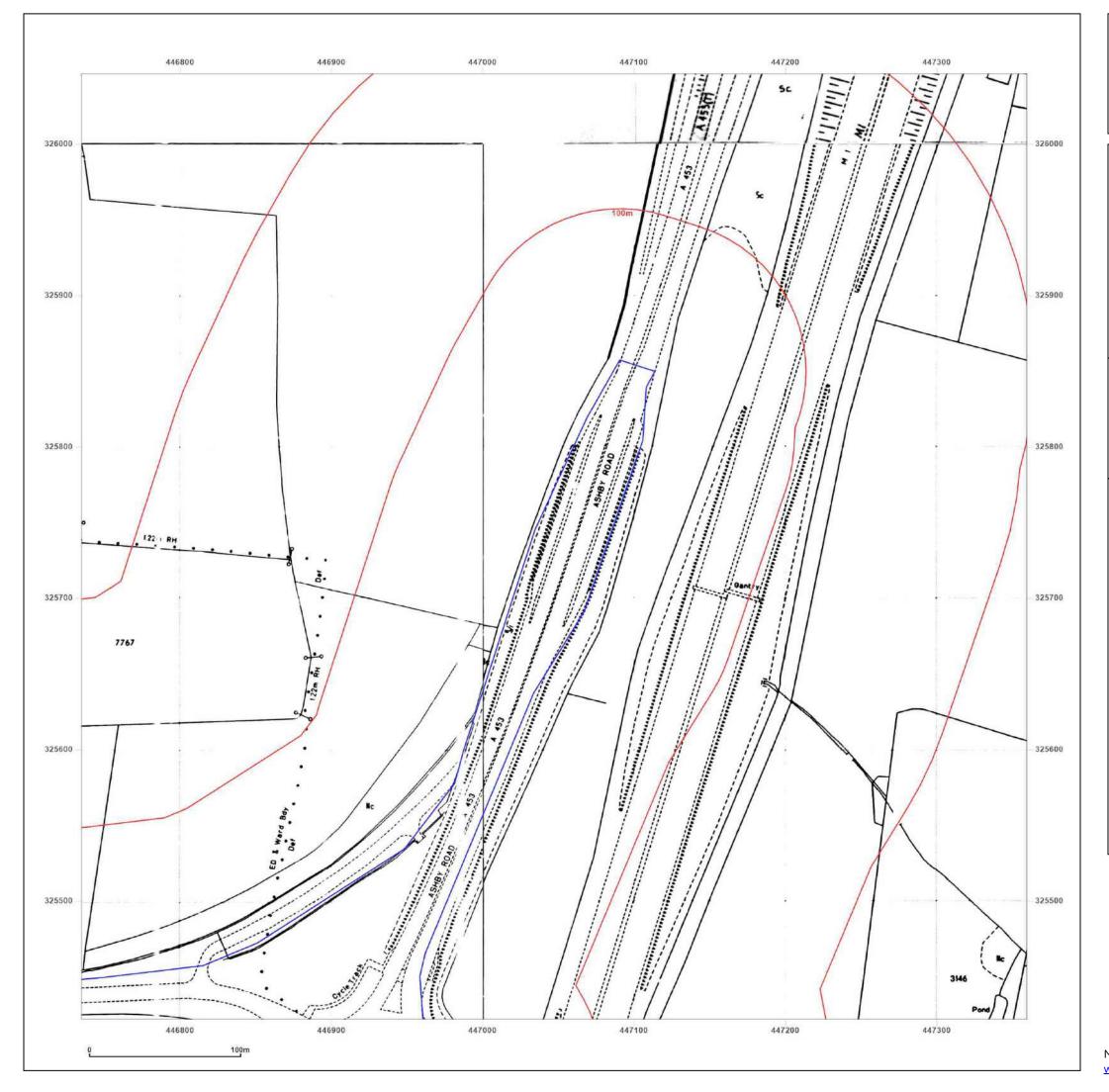




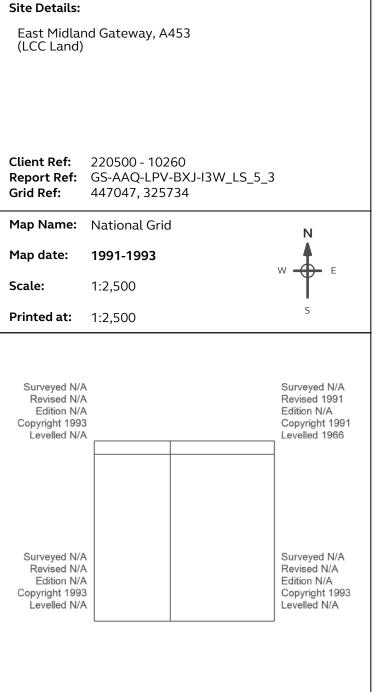
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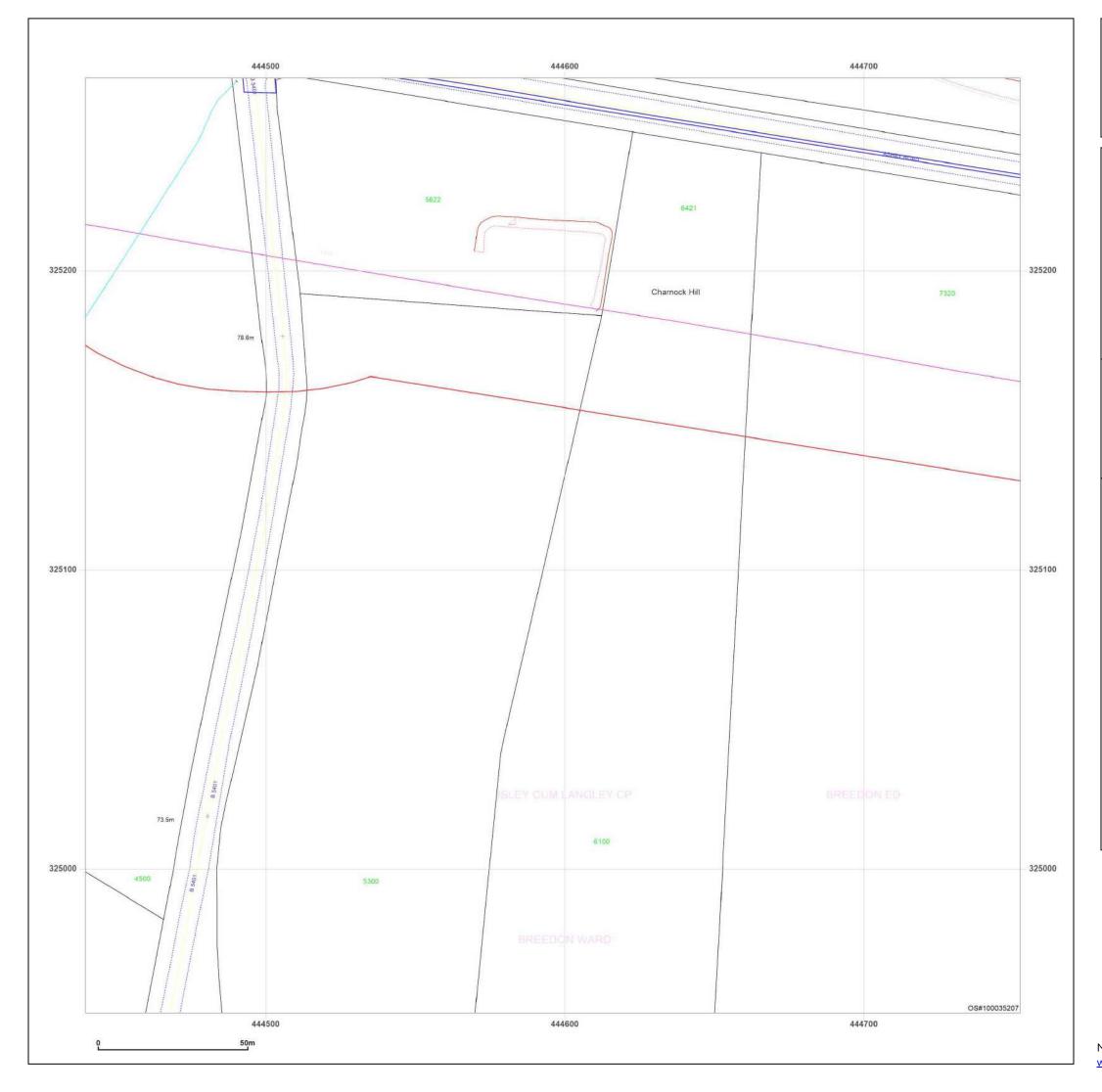




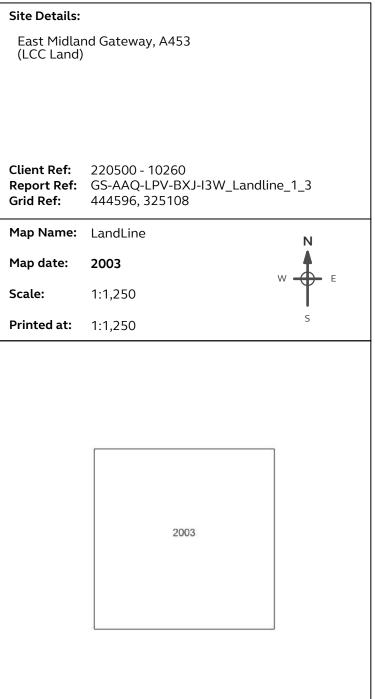
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East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

**Report Ref:** GS-AAQ-LPV-BXJ-I3W\_Landline\_1\_4

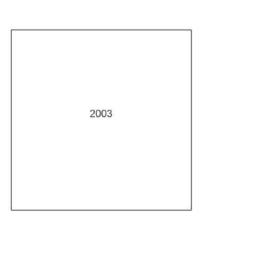
**Grid Ref:** 444596, 325408

Map Name: LandLine

Map date: 2003

**Scale:** 1:1,250

**Printed at:** 1:1,250



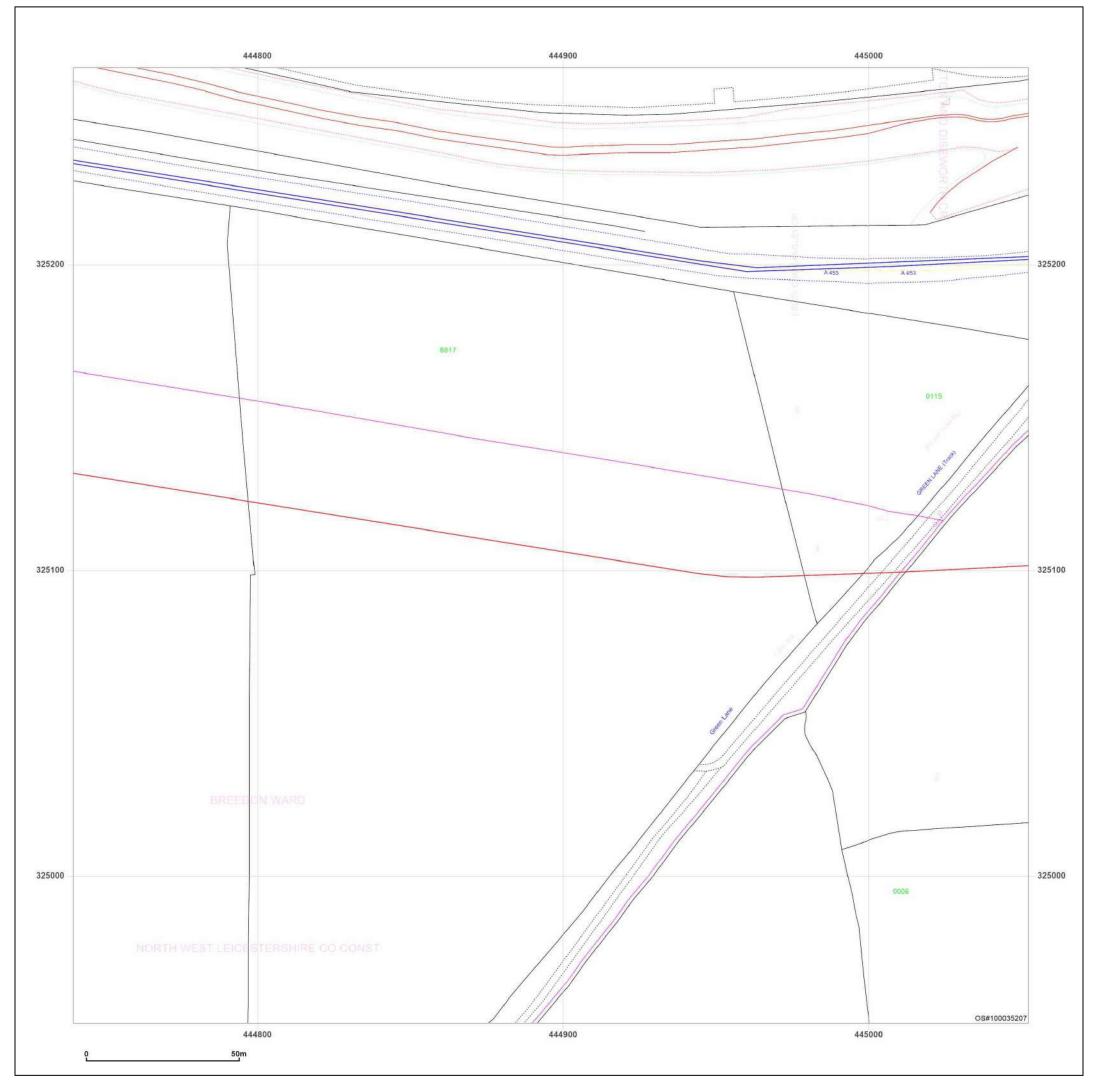


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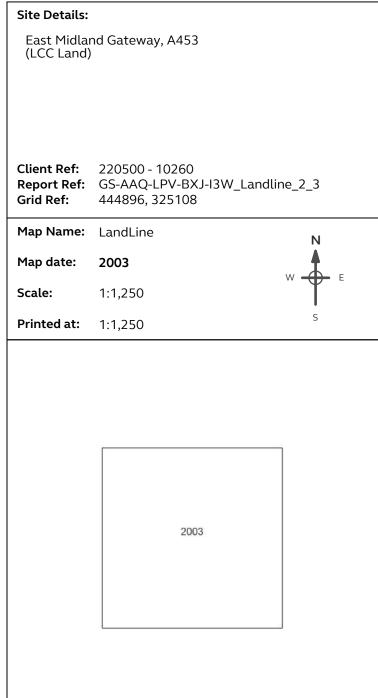
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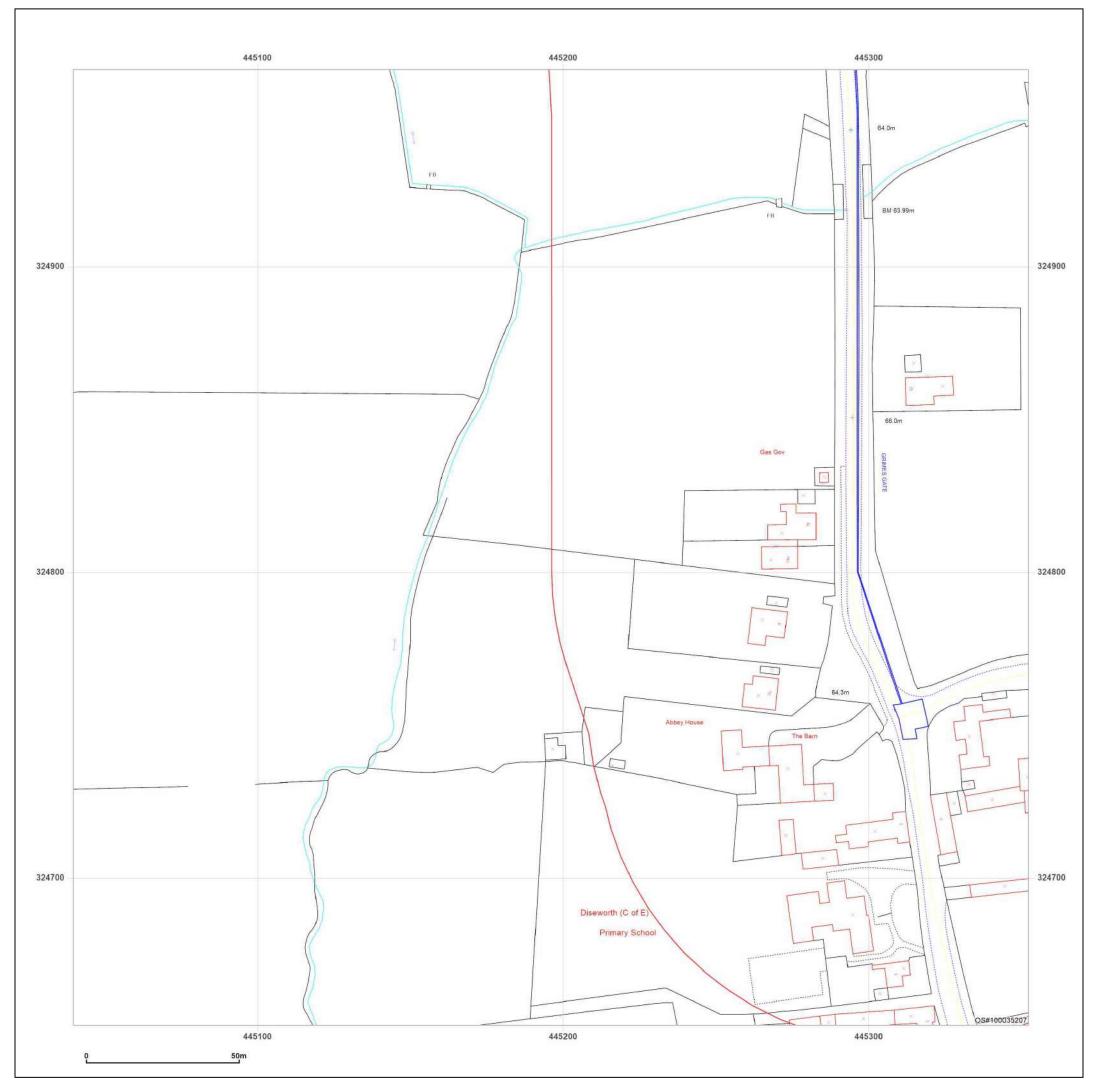




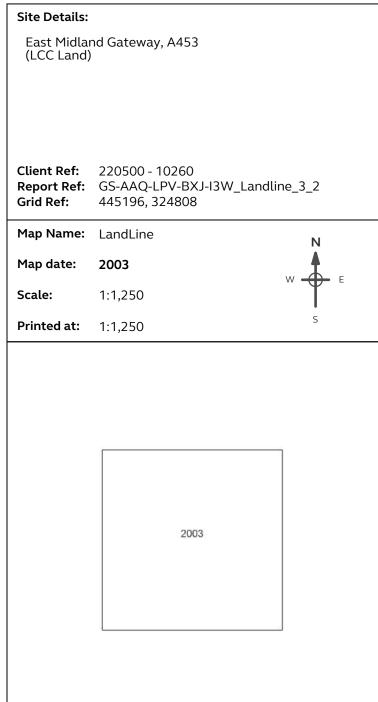
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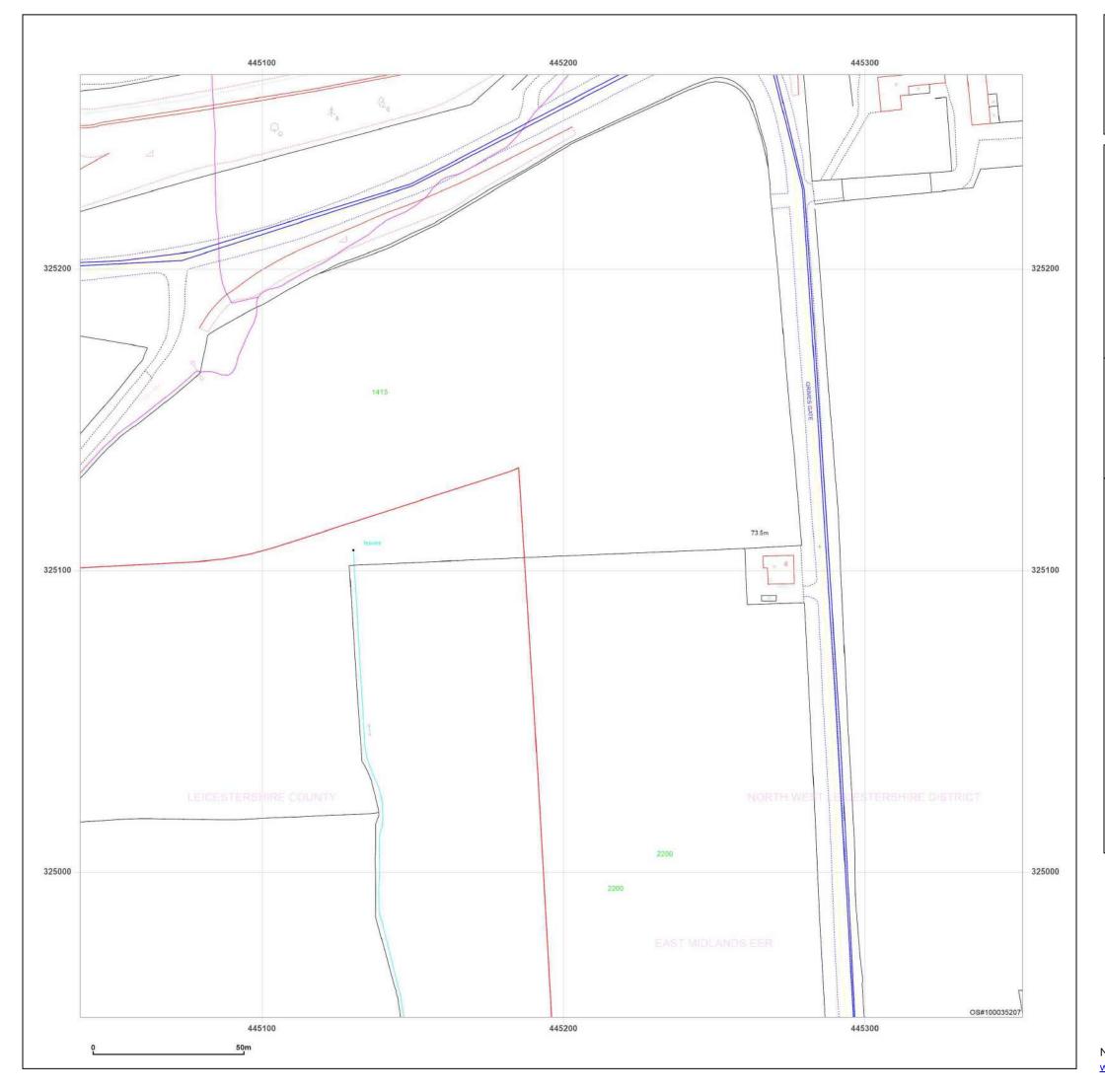




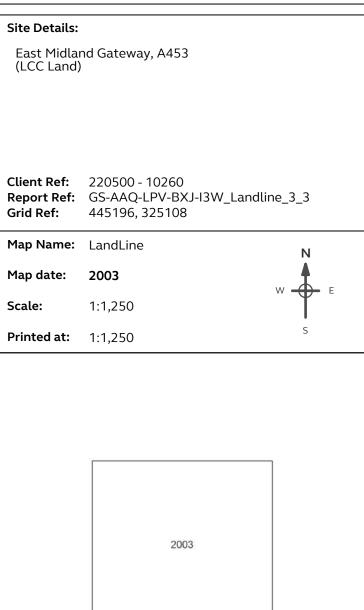
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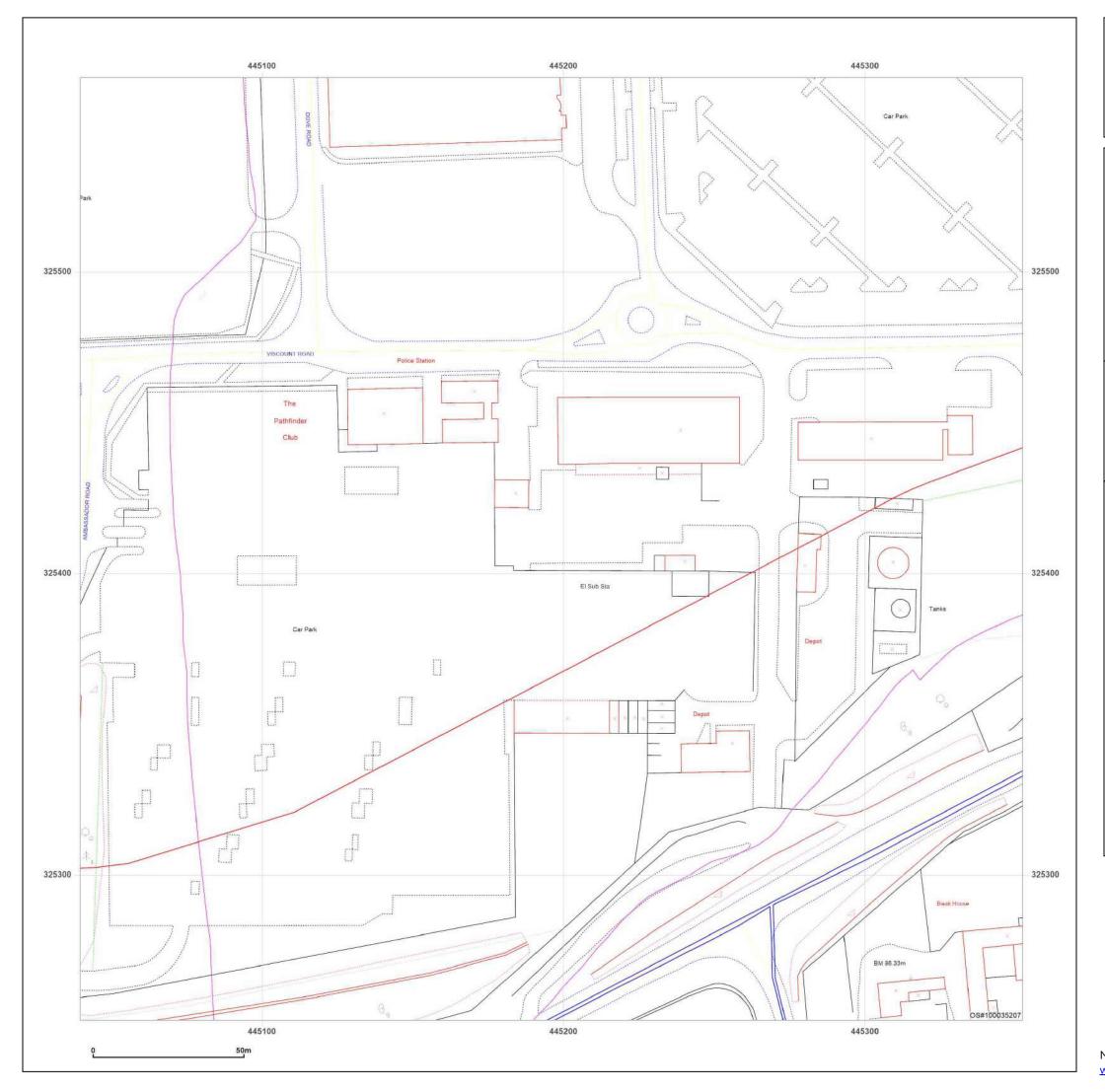




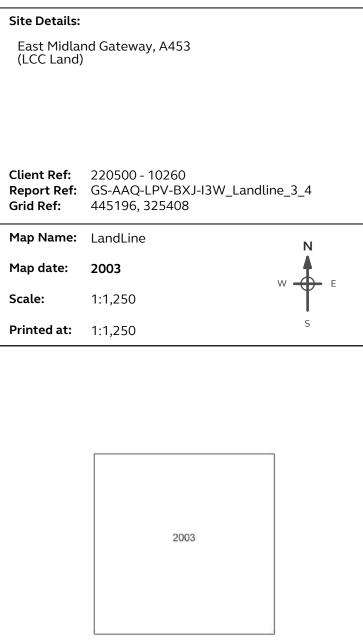
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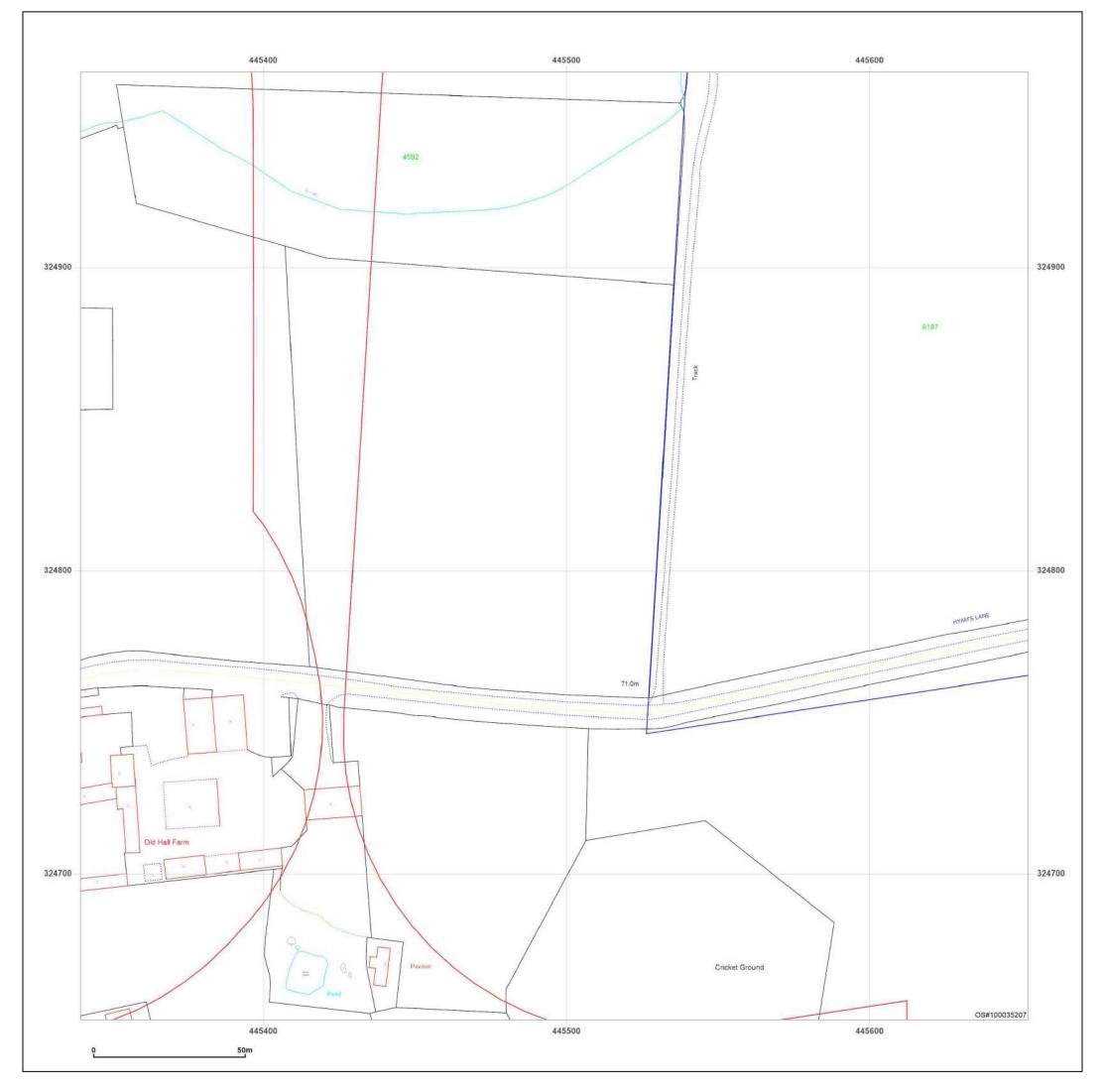




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East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

**Report Ref:** GS-AAQ-LPV-BXJ-I3W\_Landline\_4\_2

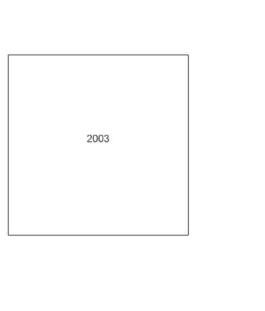
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Map Name: LandLine

Map date: 2003

**Scale:** 1:1,250

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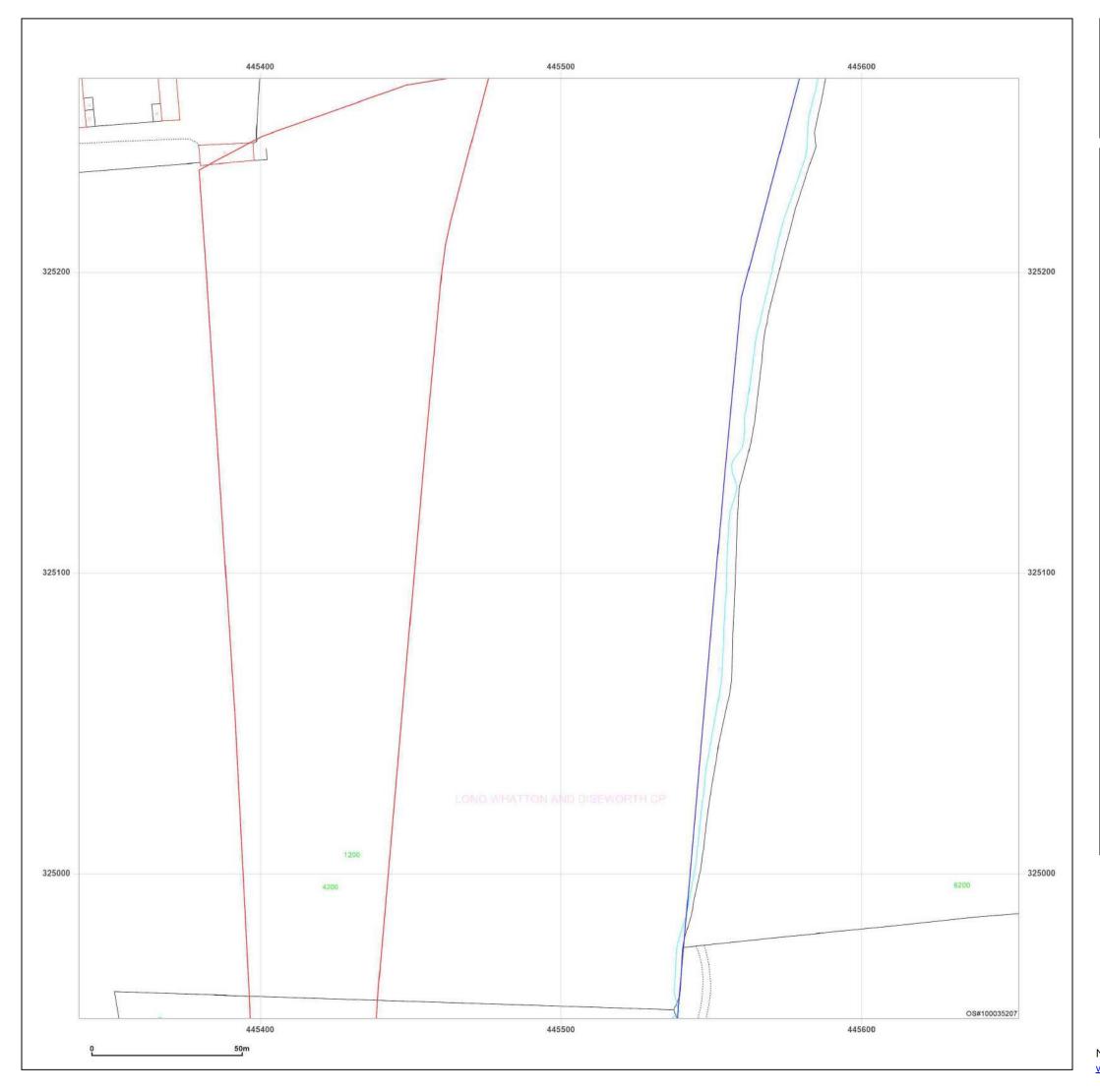


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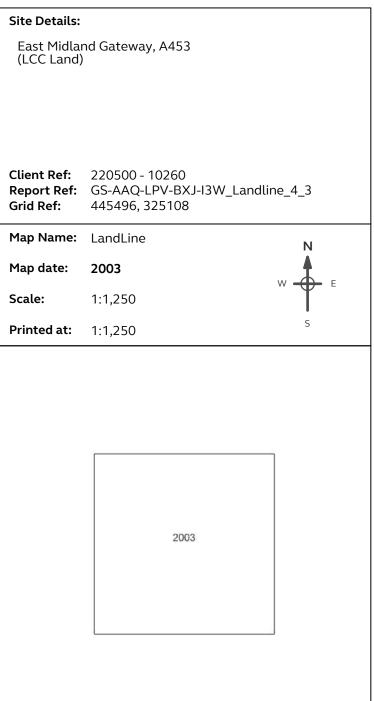
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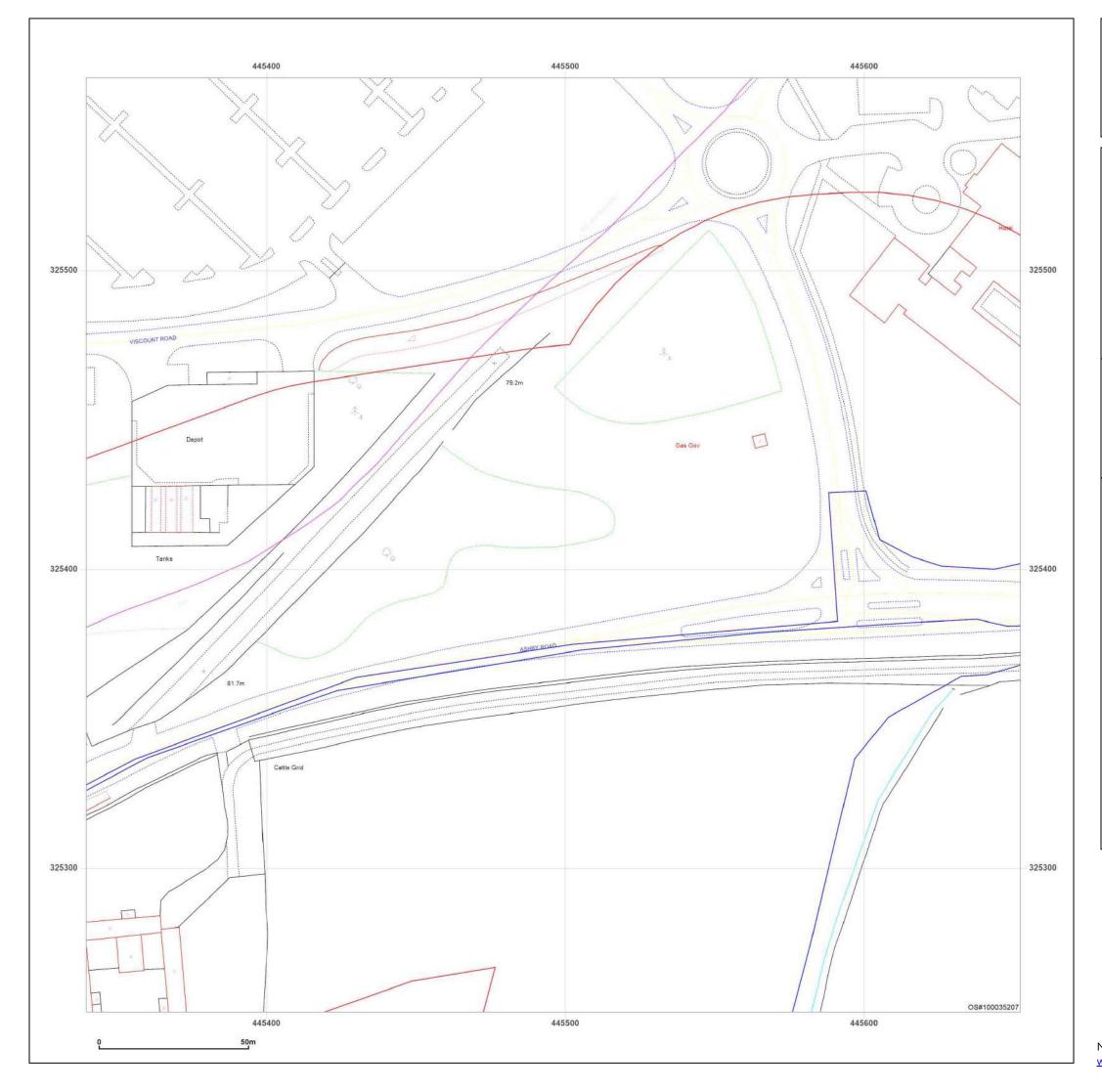




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East Midland Gateway, A453 (LCC Land)

**Client Ref:** 220500 - 10260

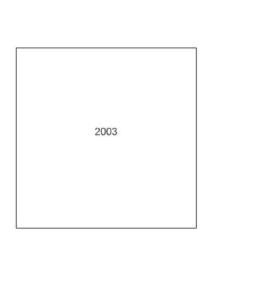
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Map Name: LandLine

Map date: 2003

Scale: 1:1,250

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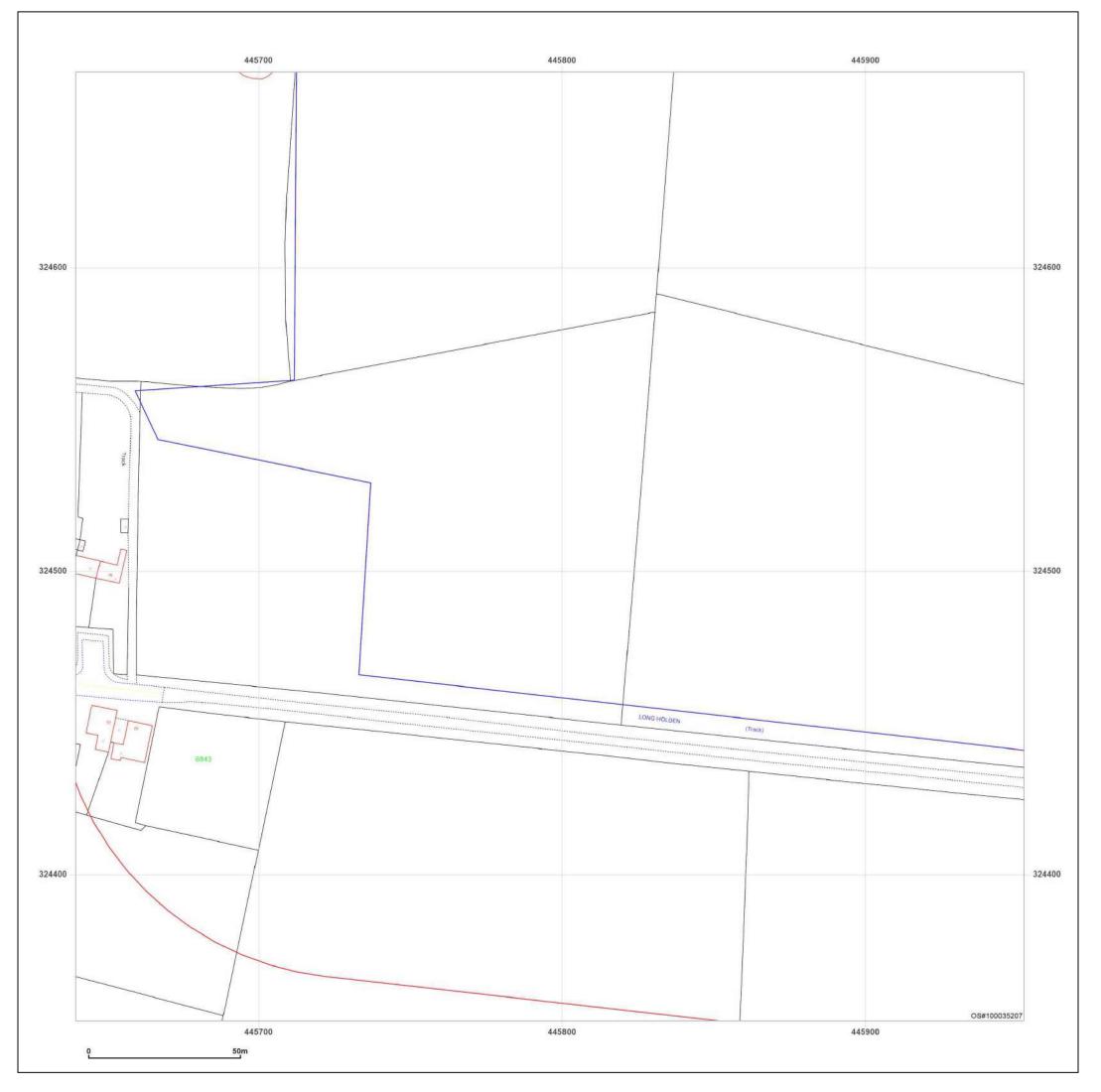


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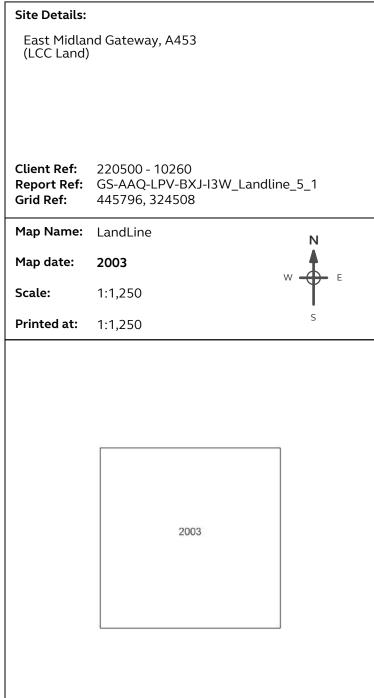
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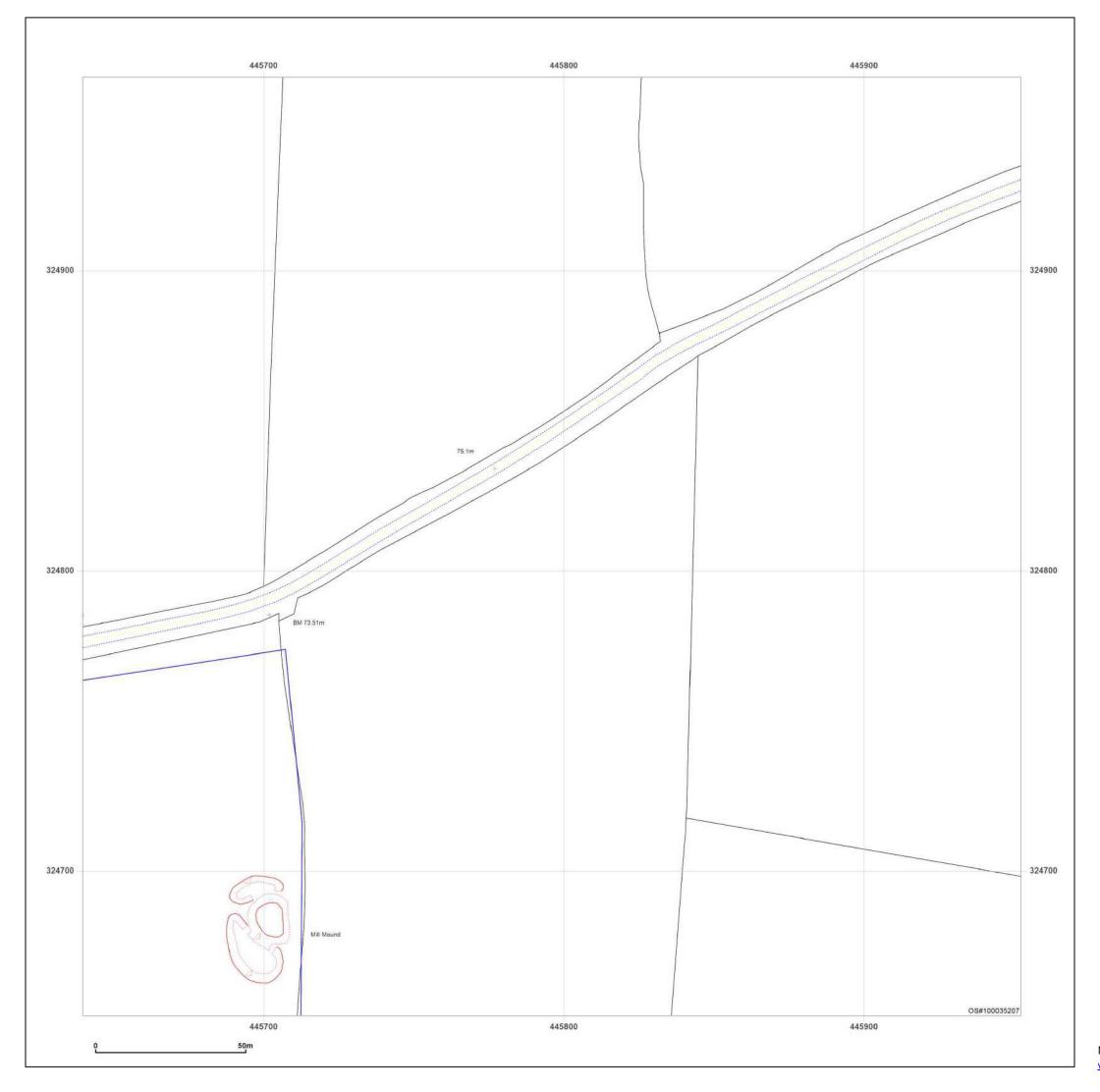




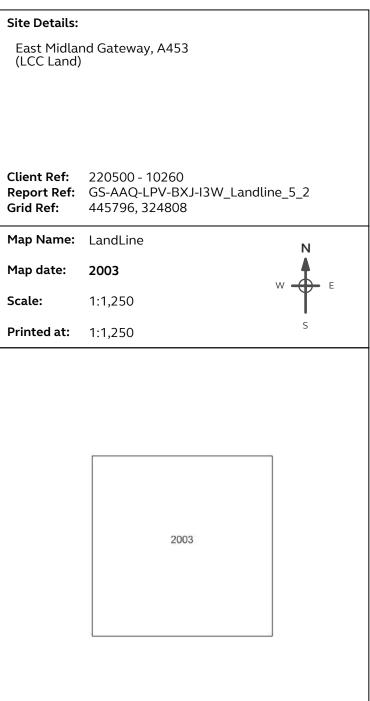
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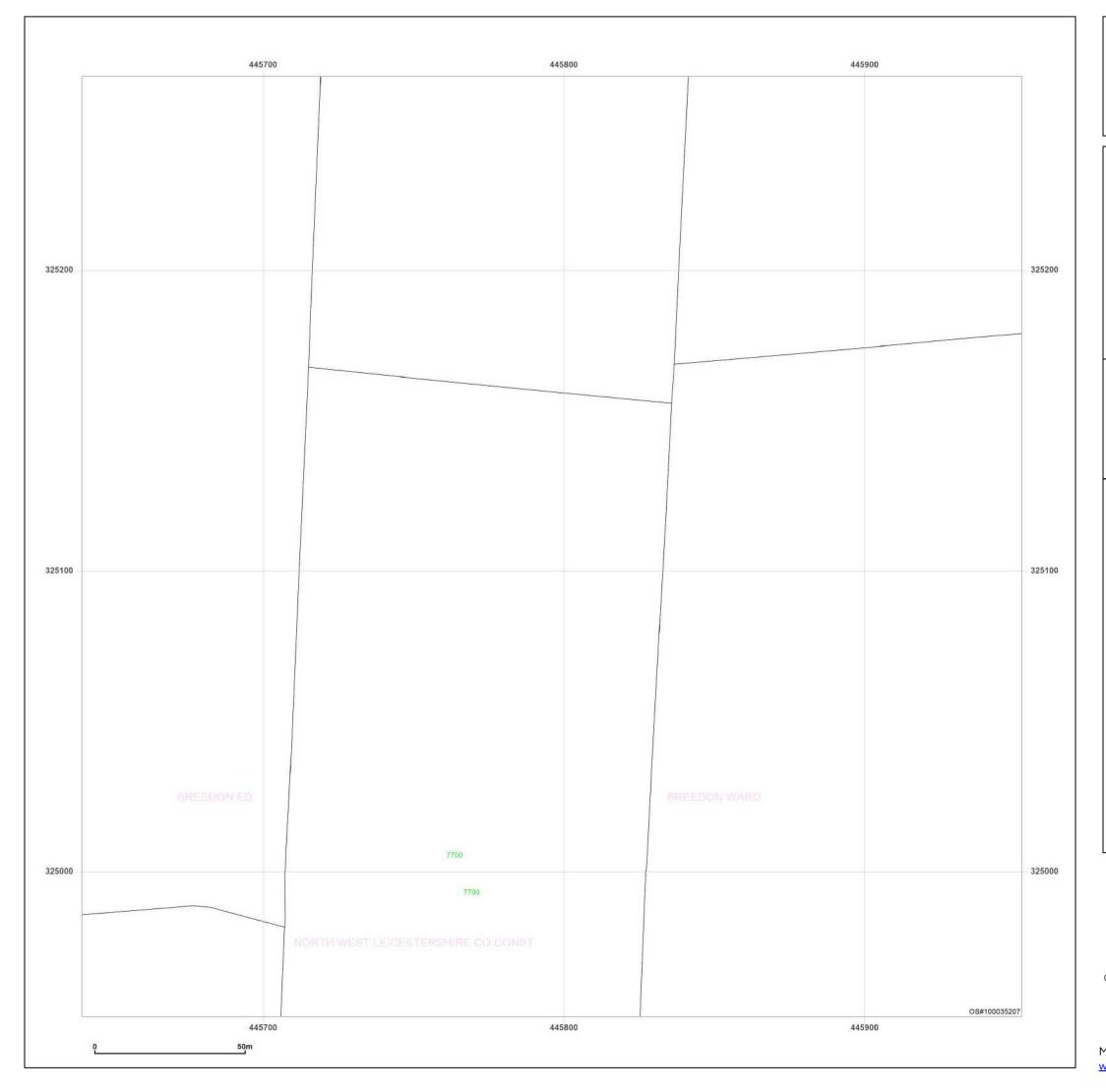




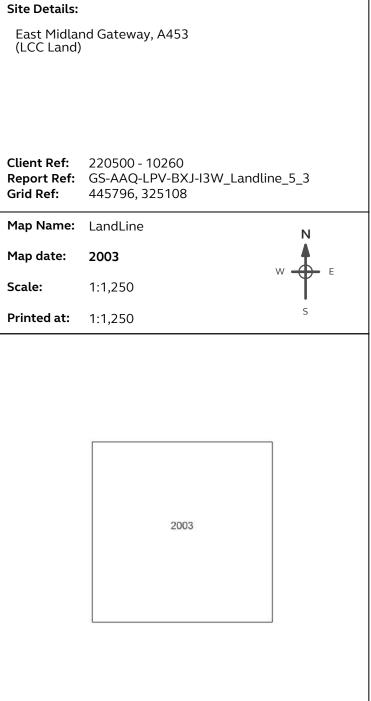
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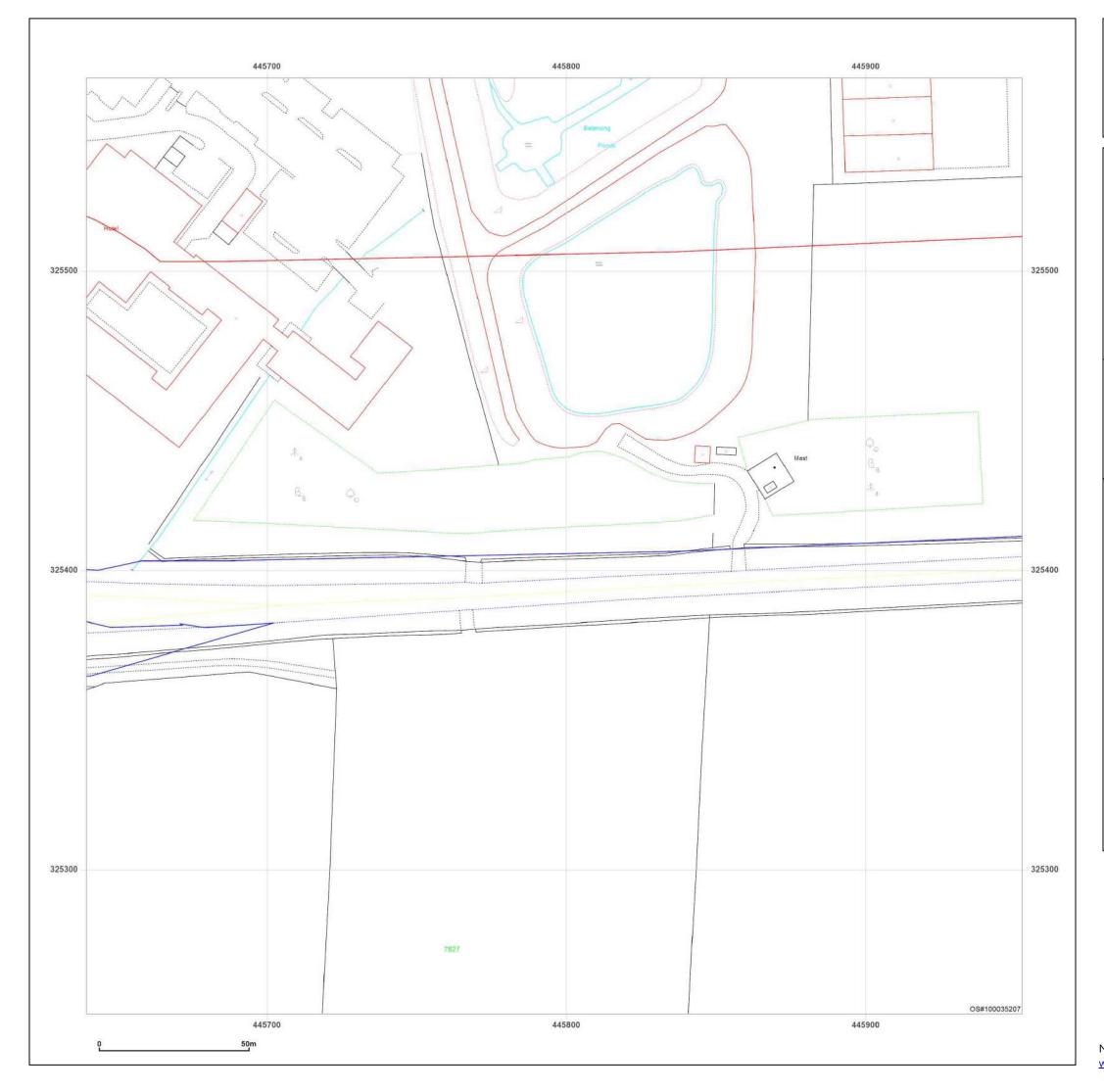




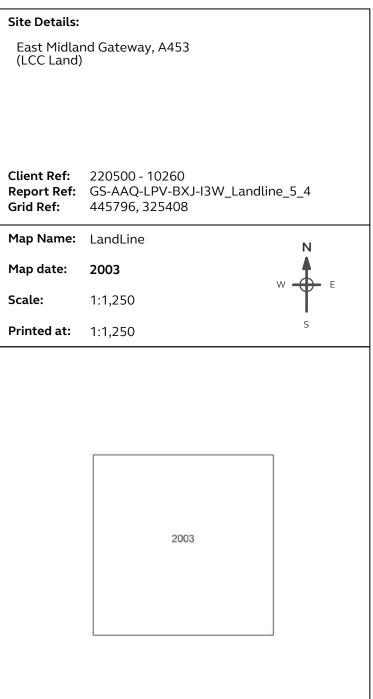
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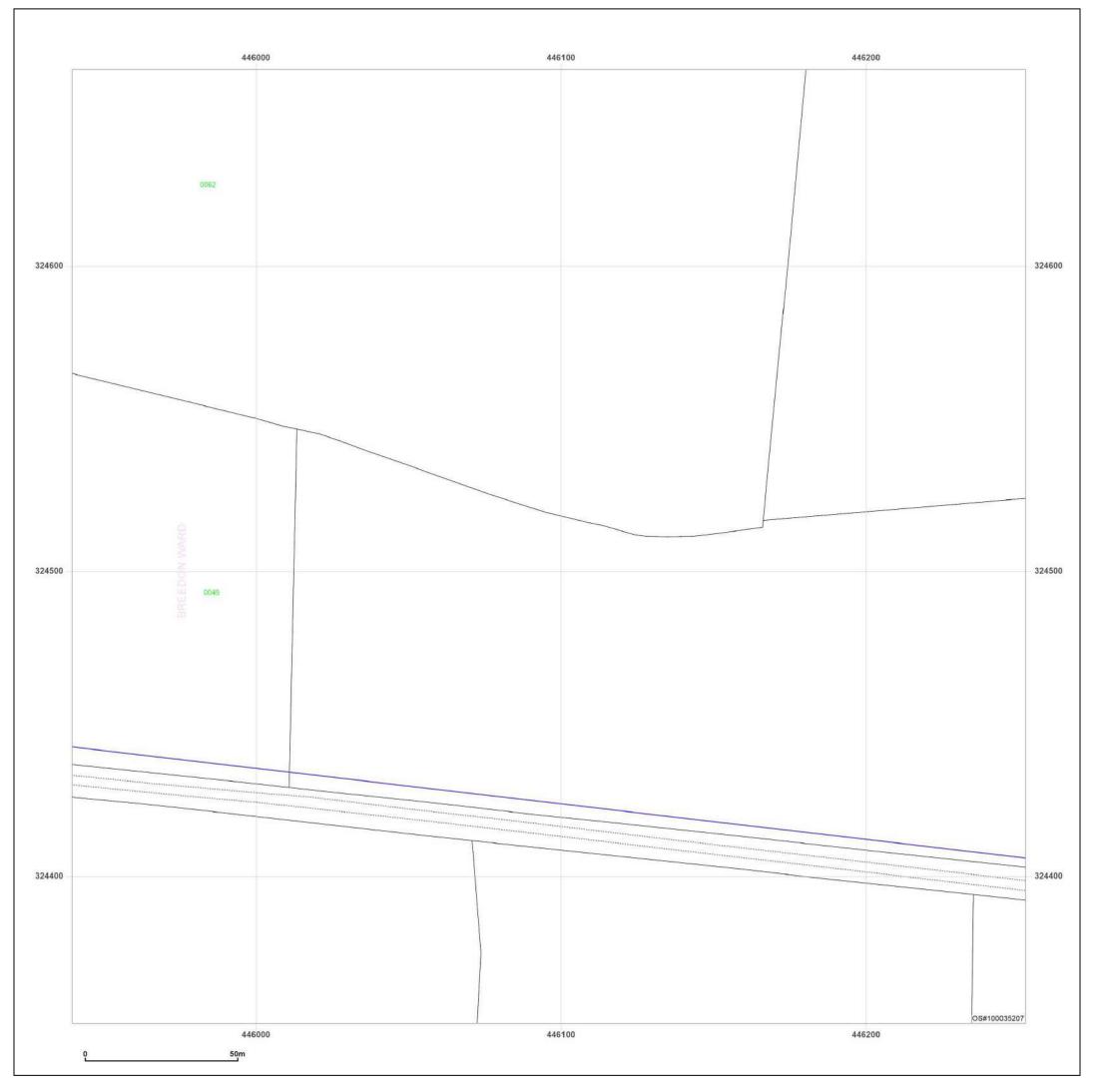




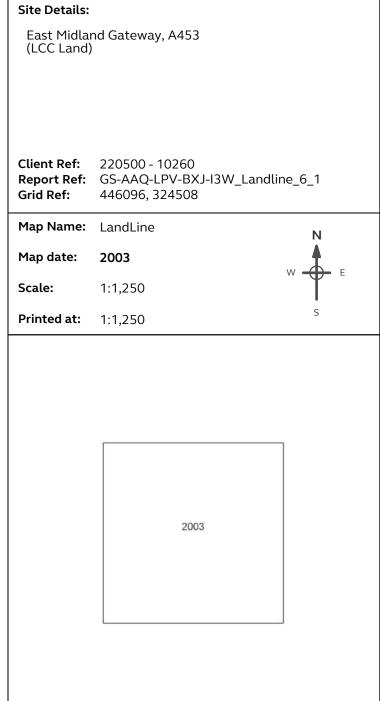
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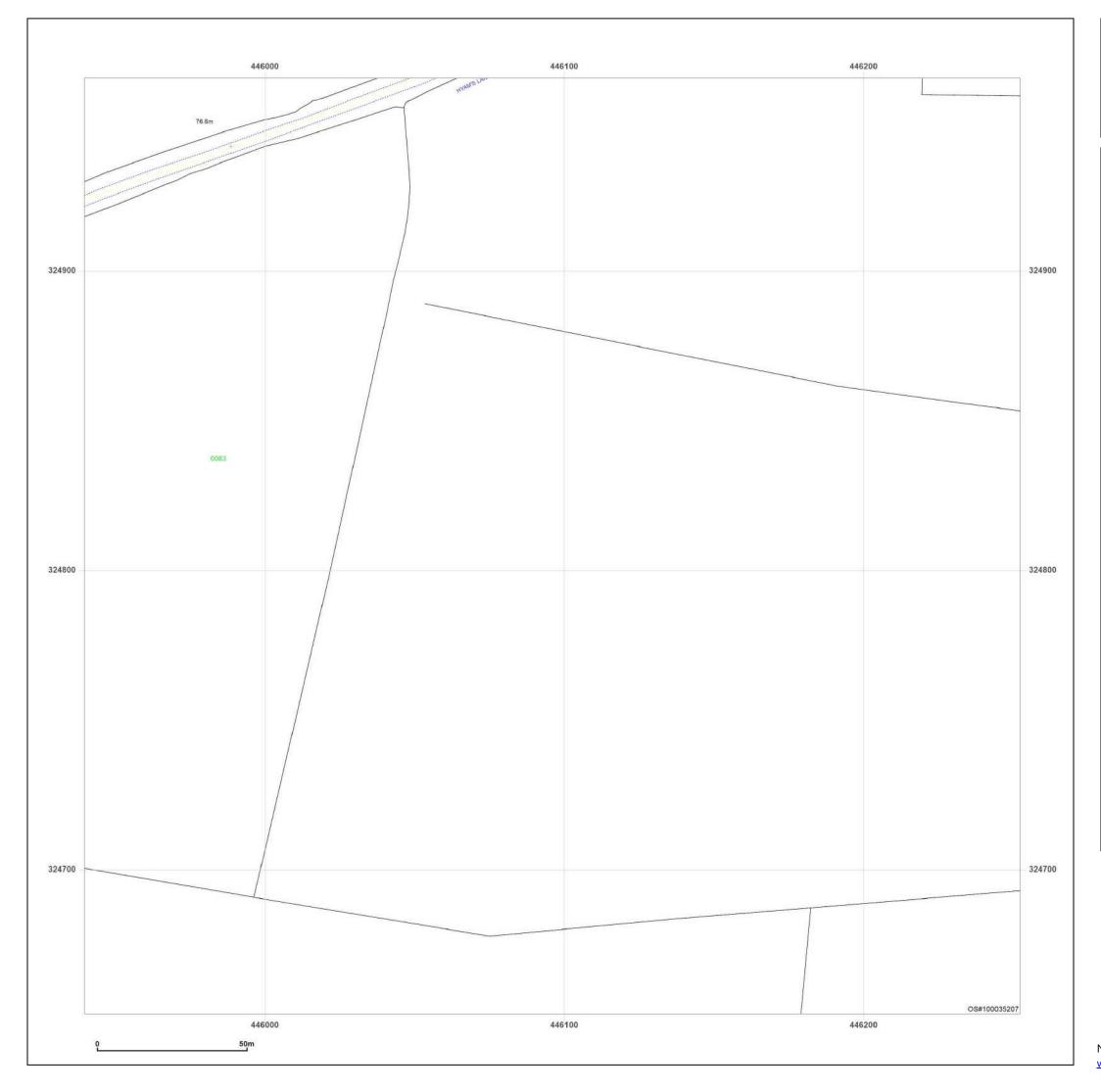




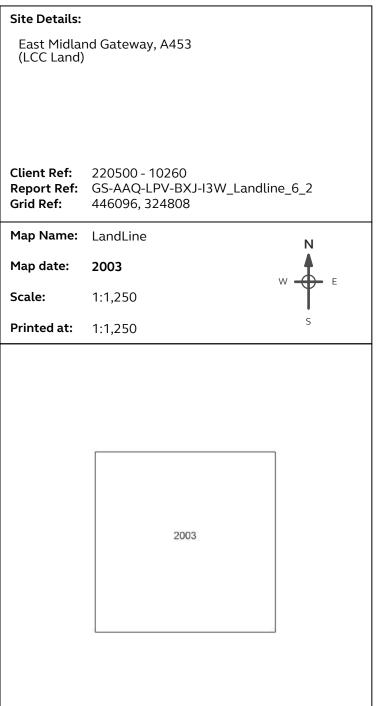
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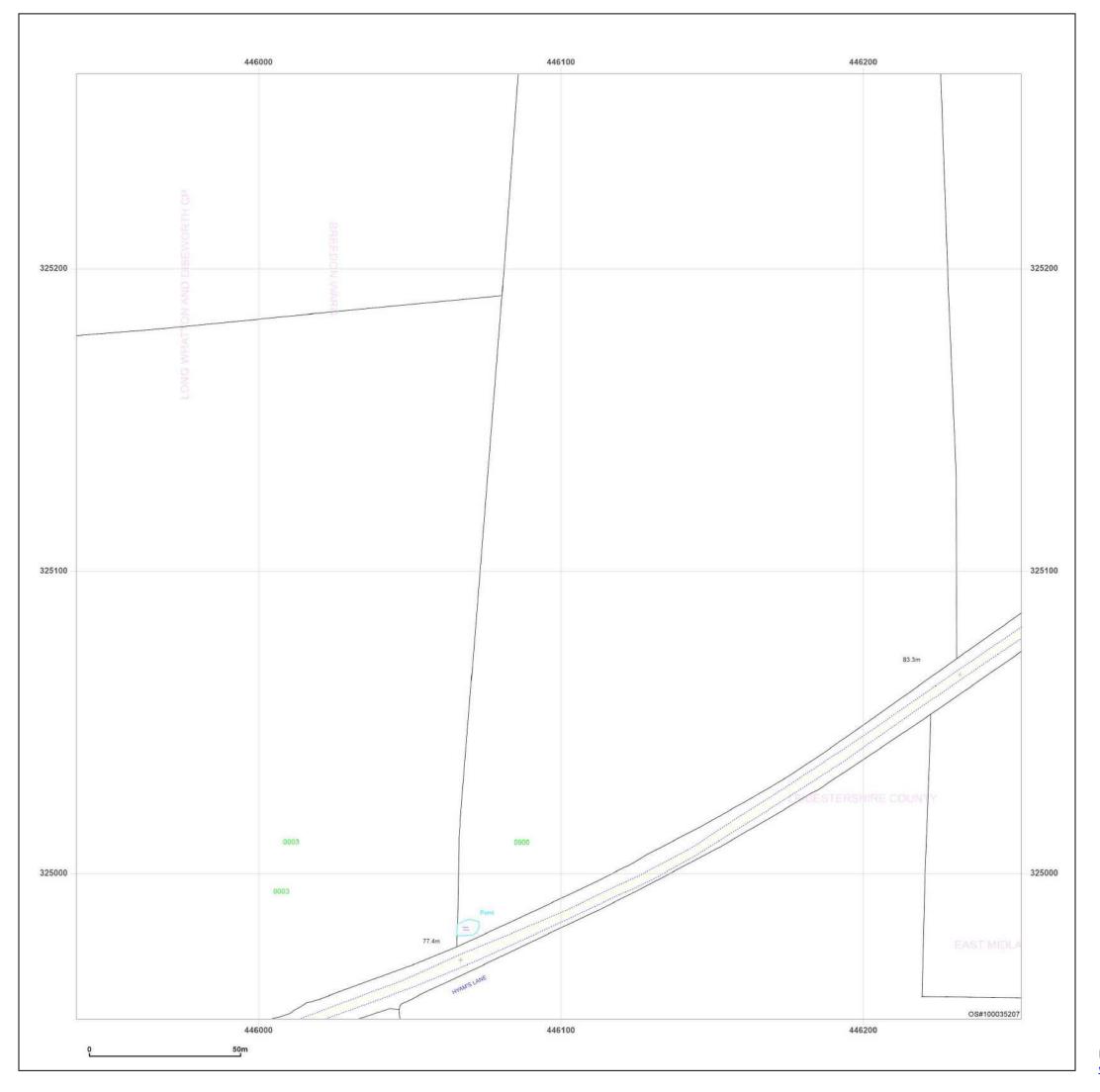




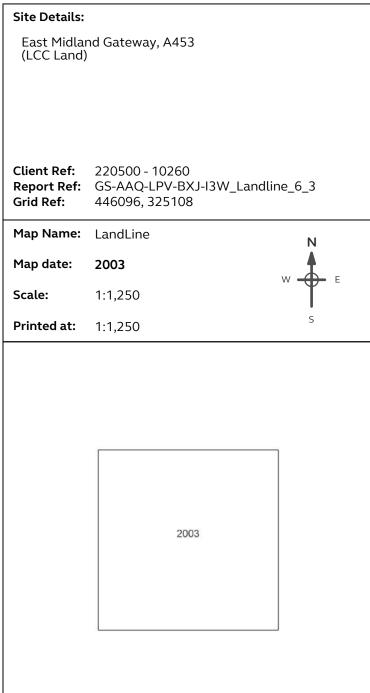
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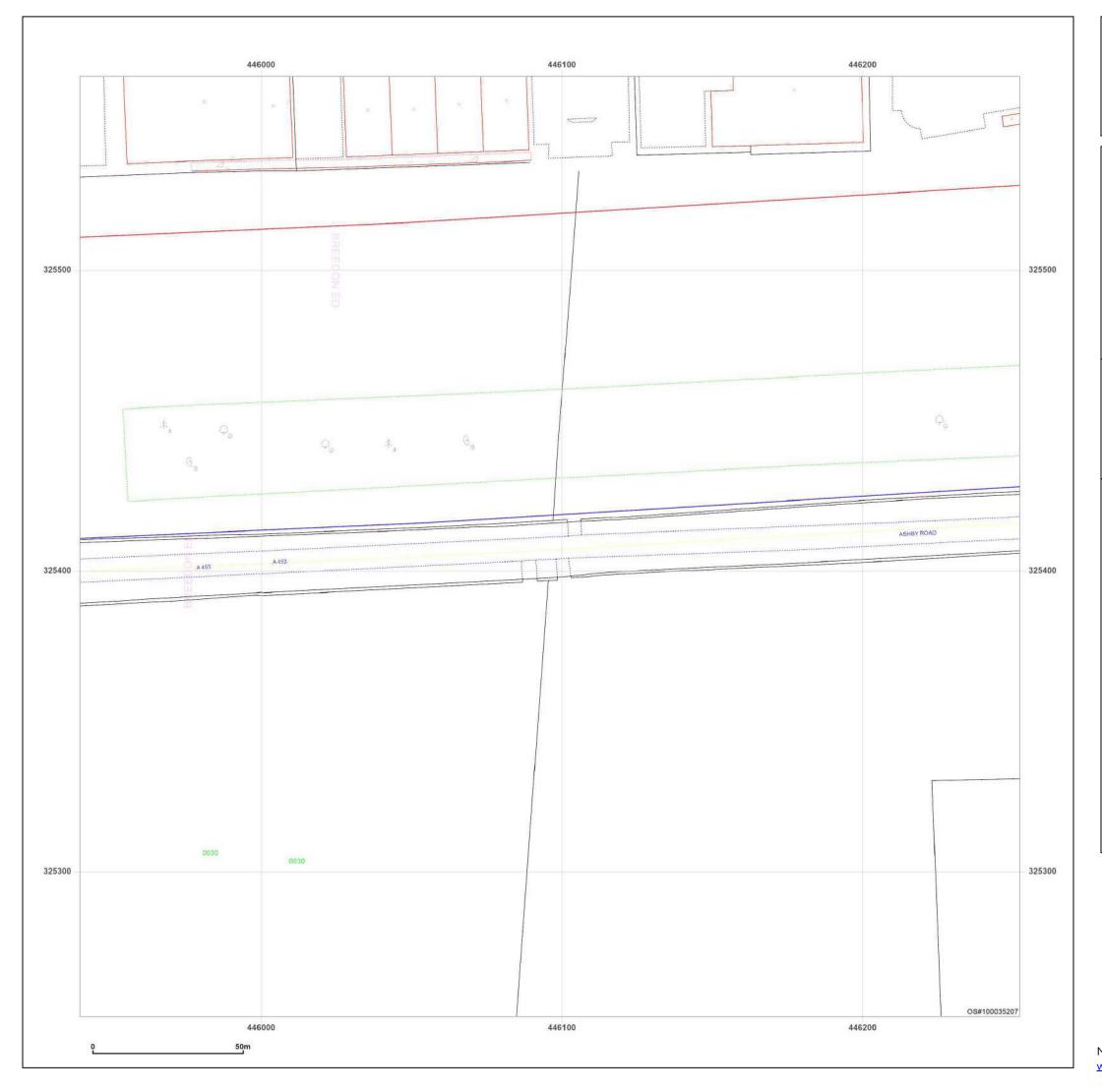




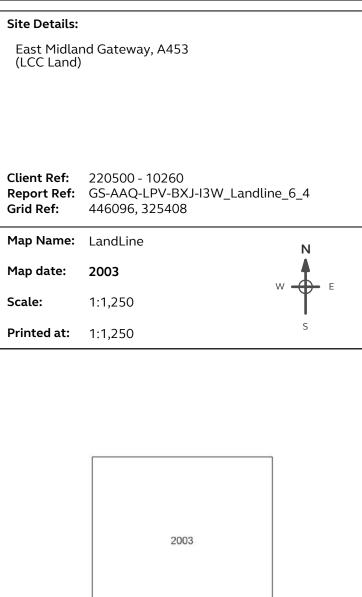
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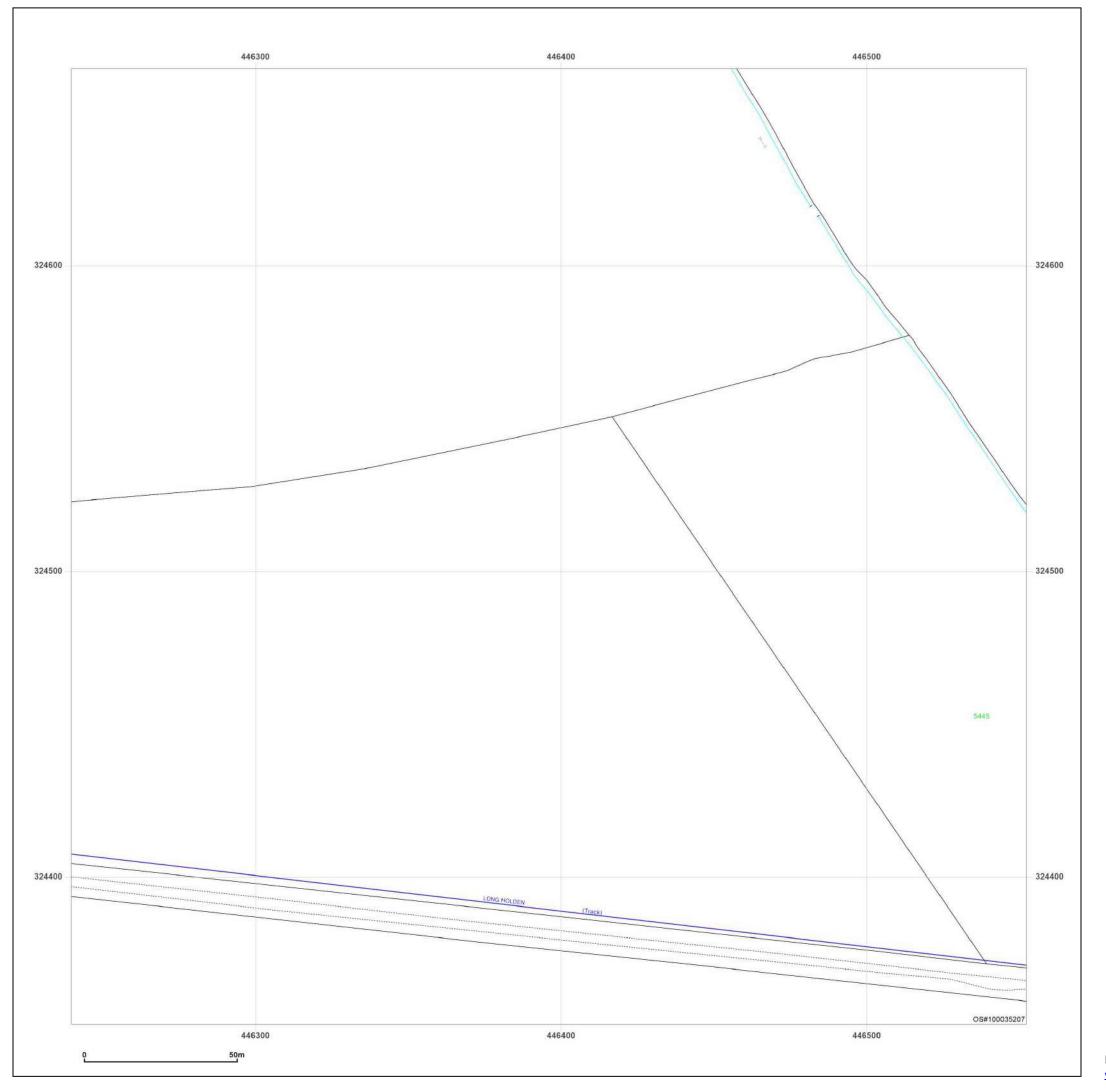




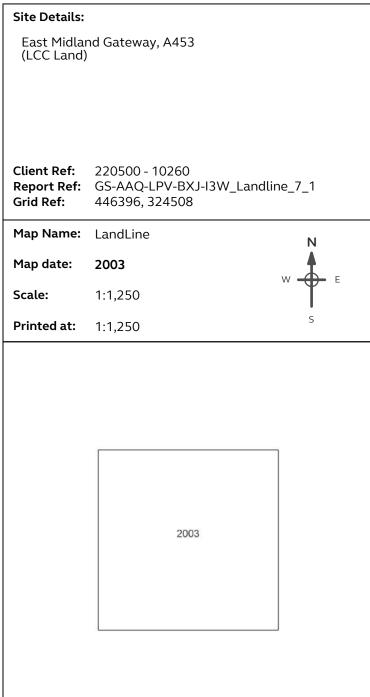
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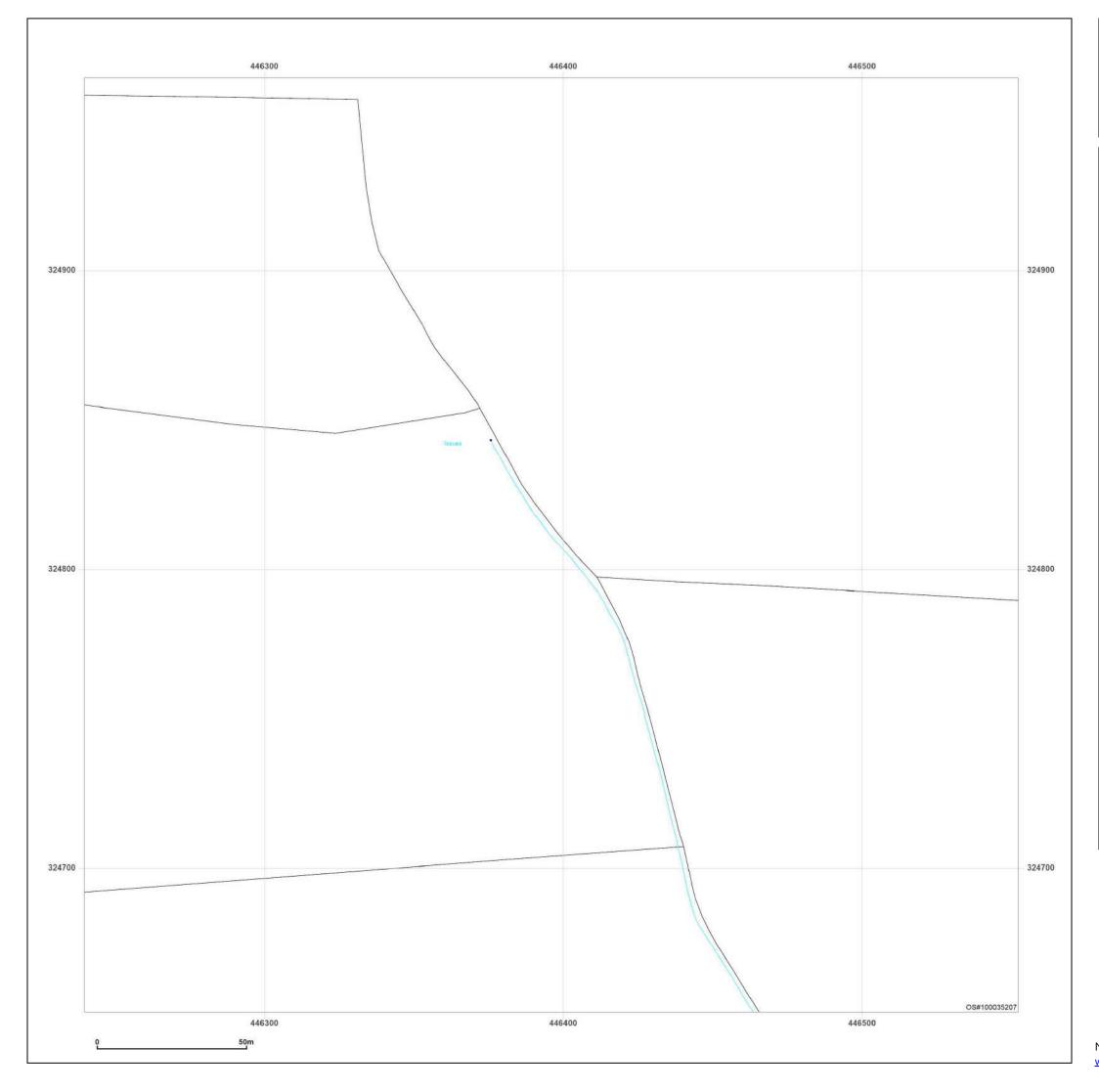




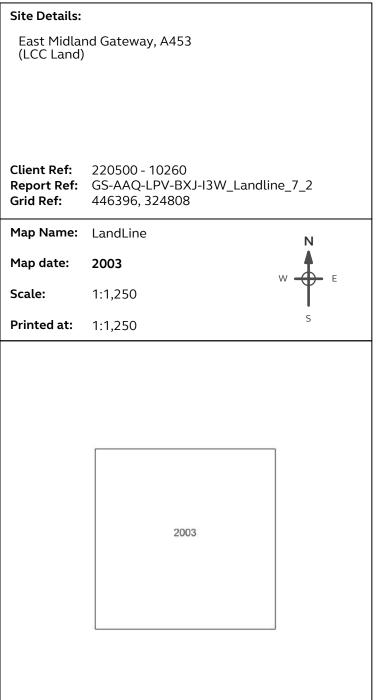
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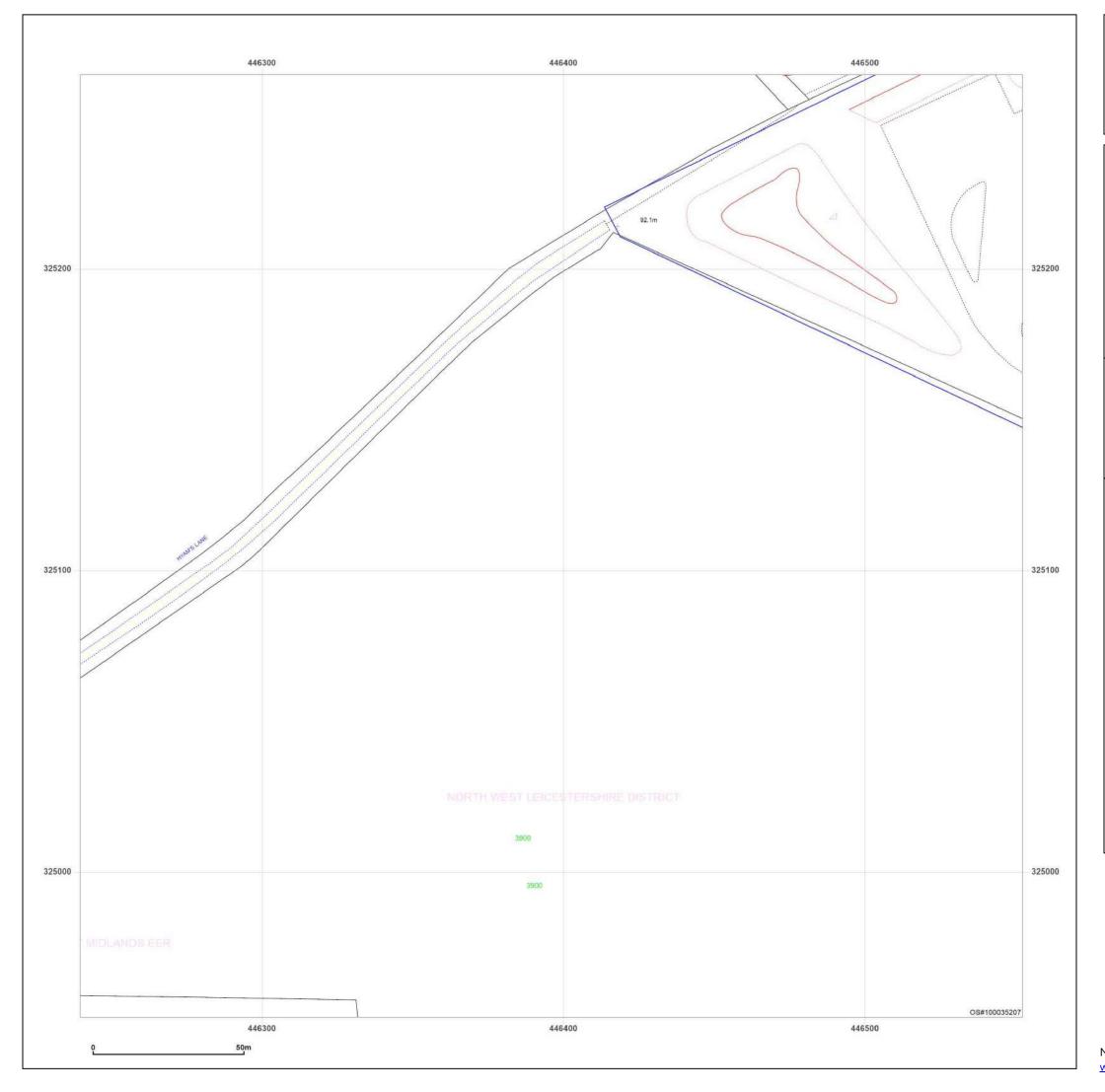




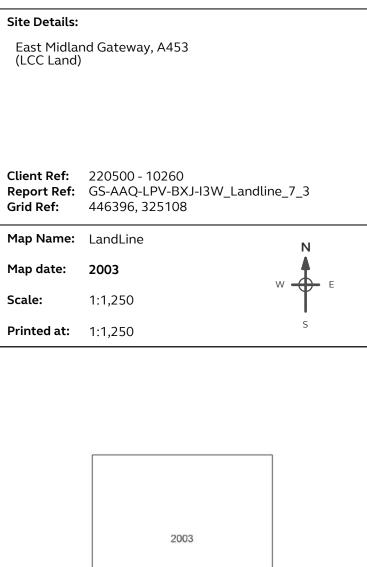
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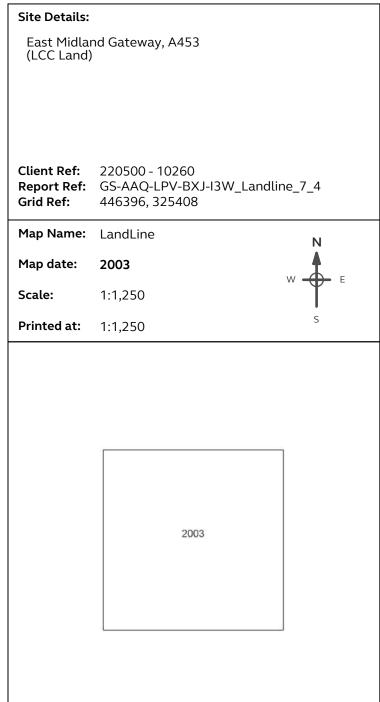
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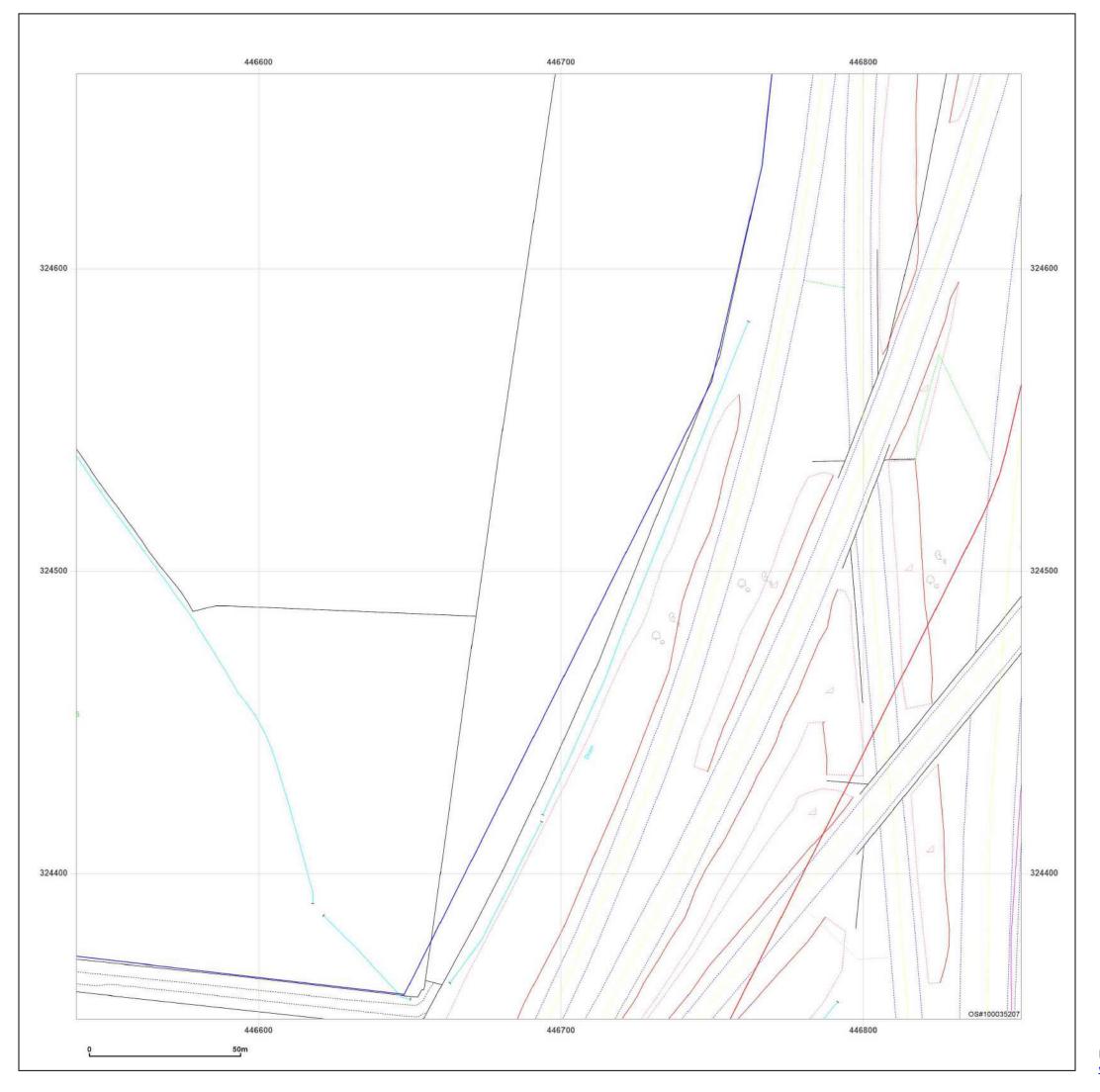




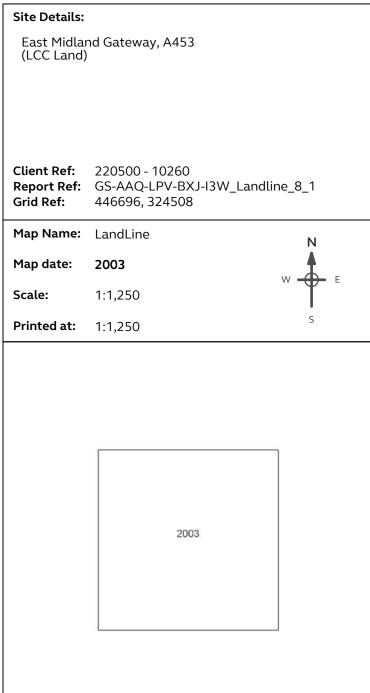
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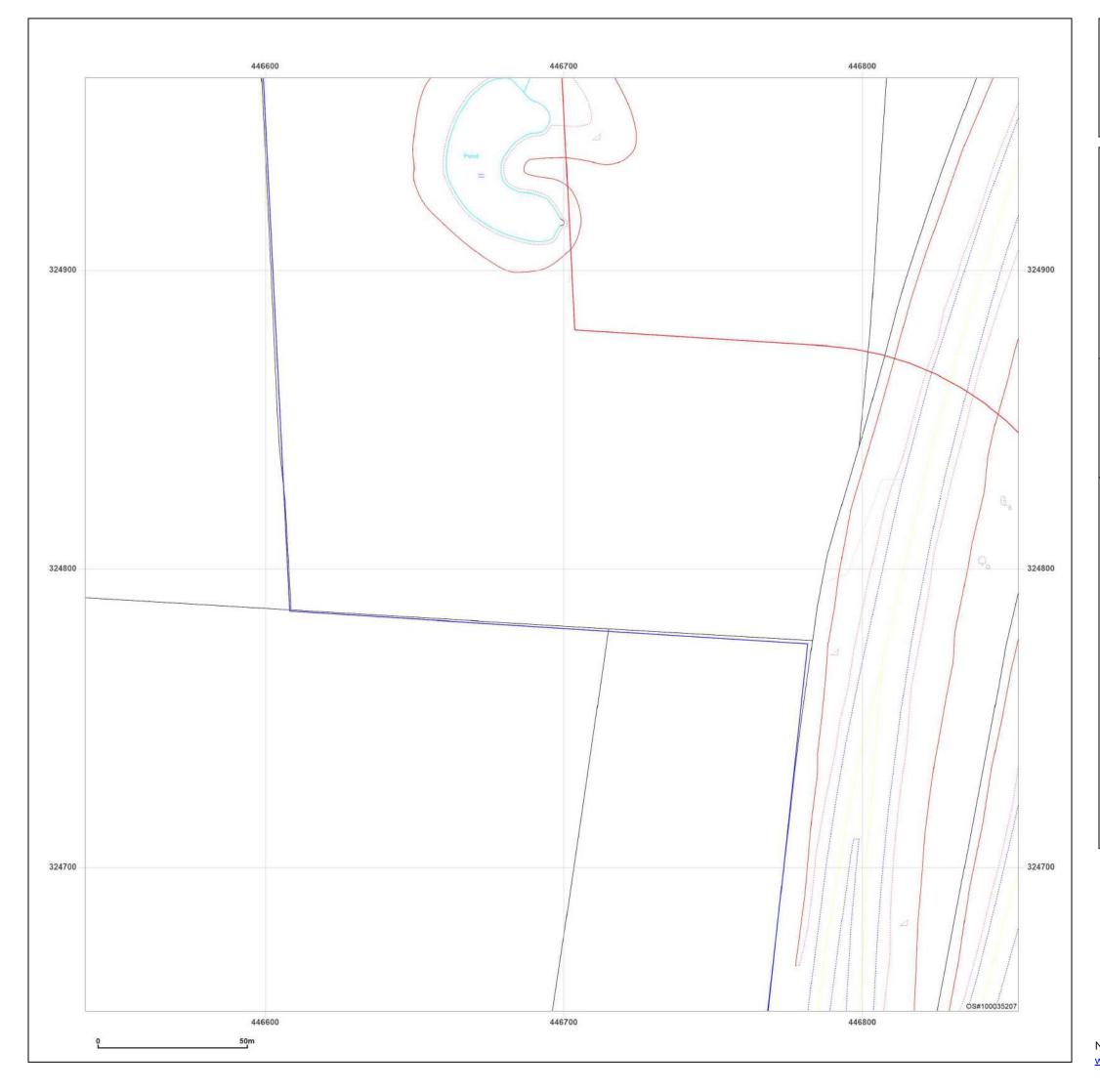




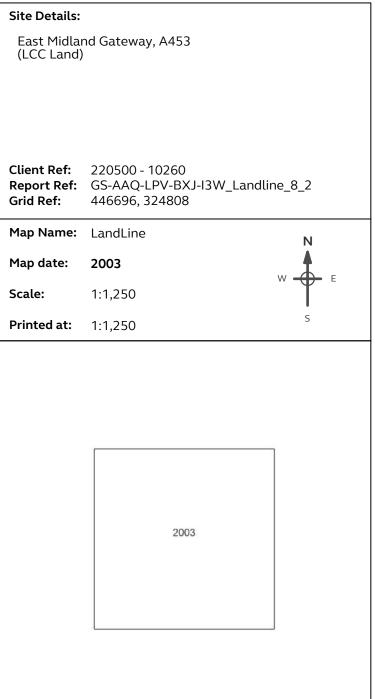
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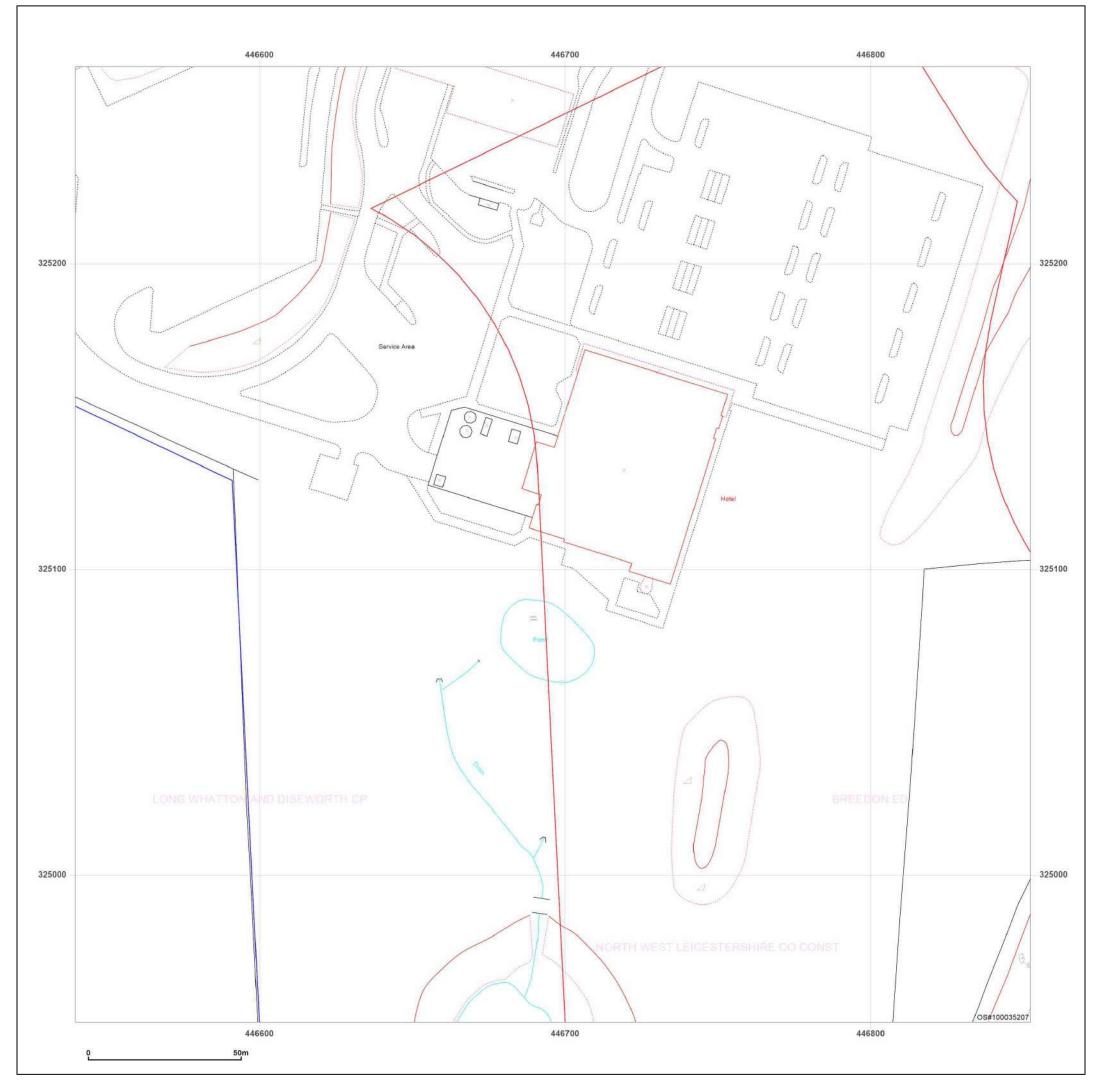




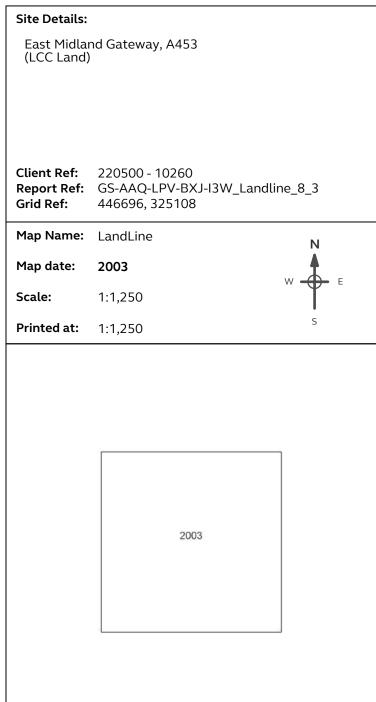
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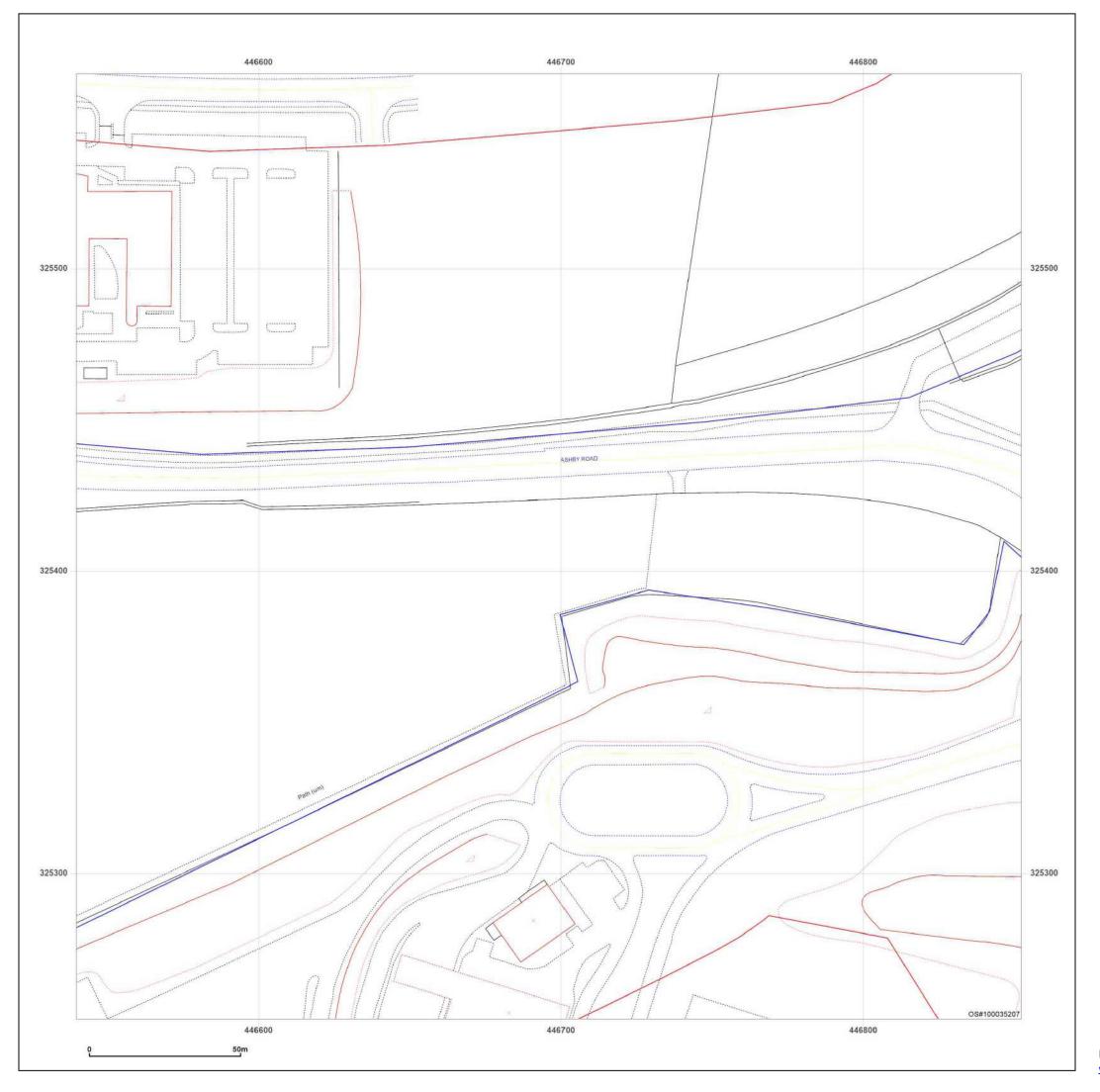




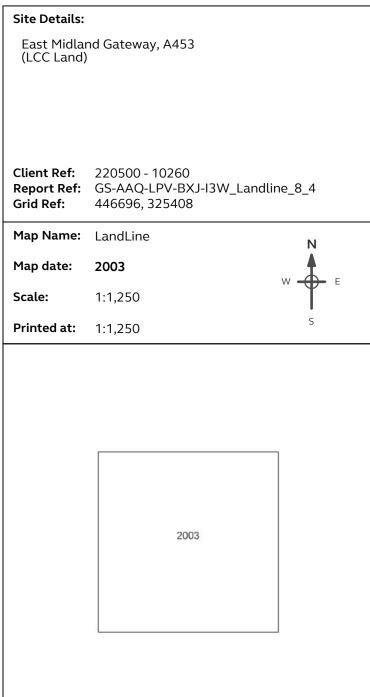
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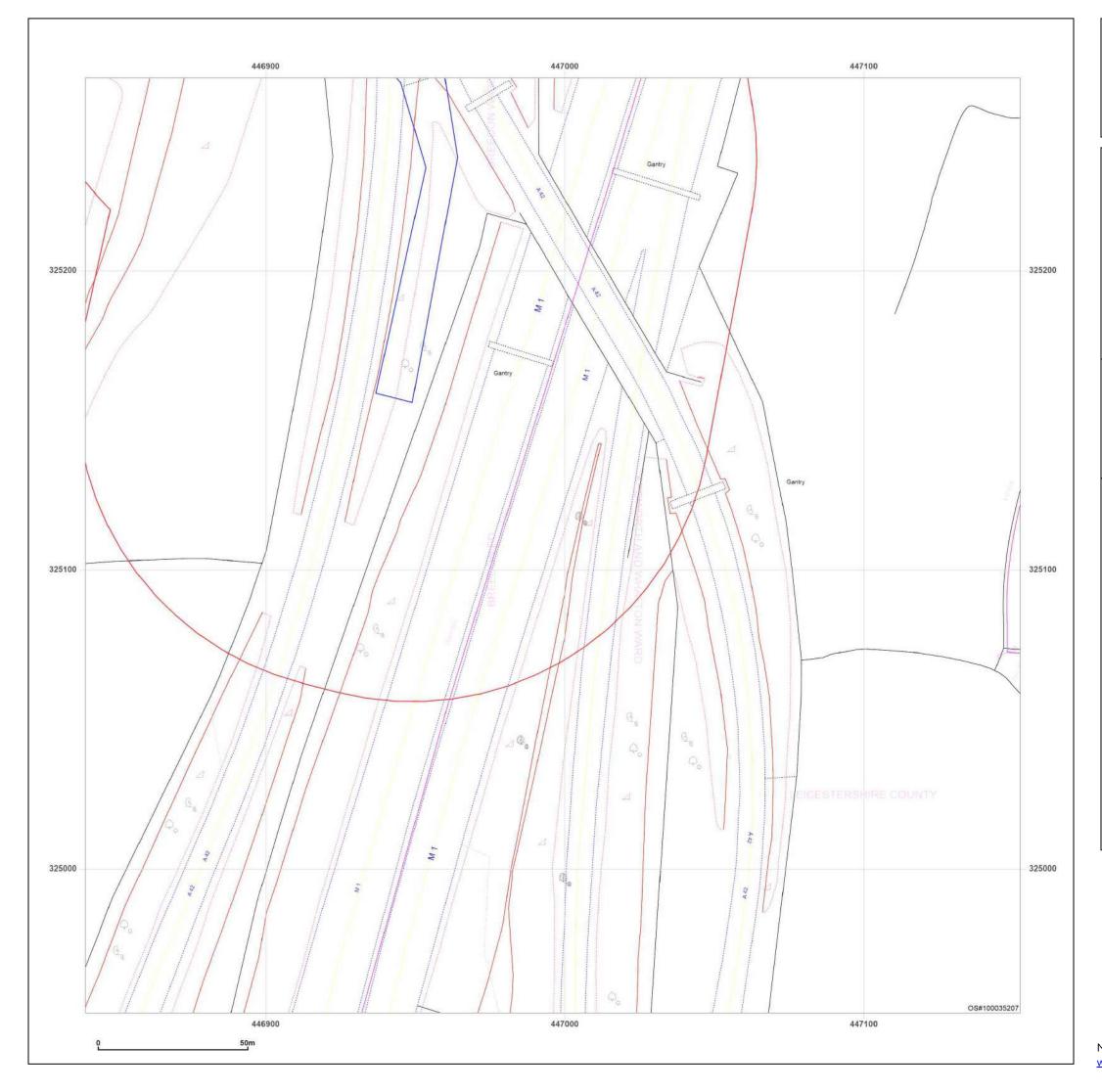




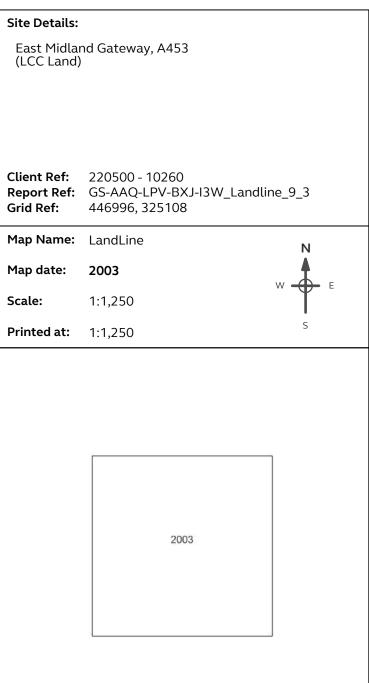
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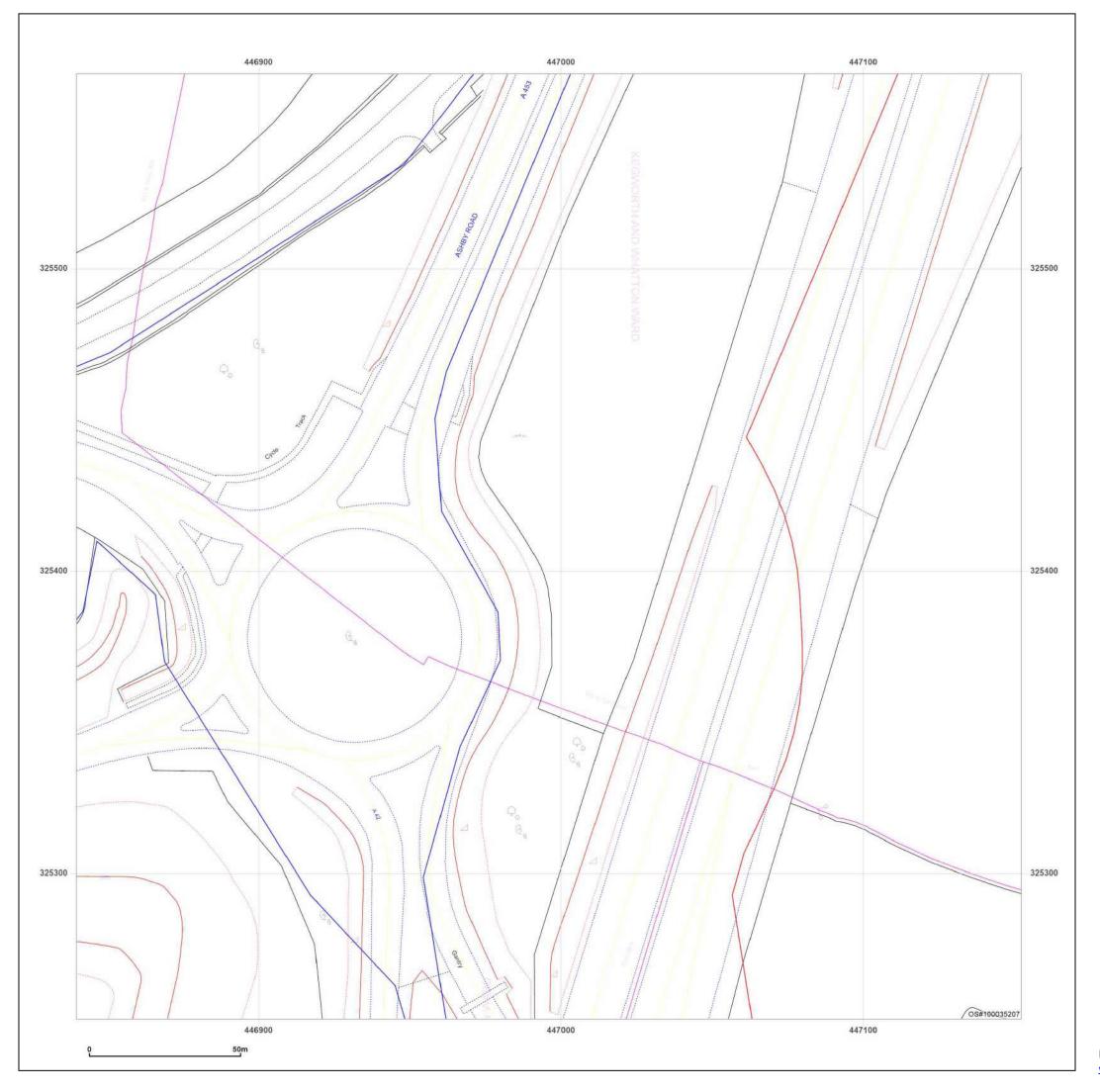




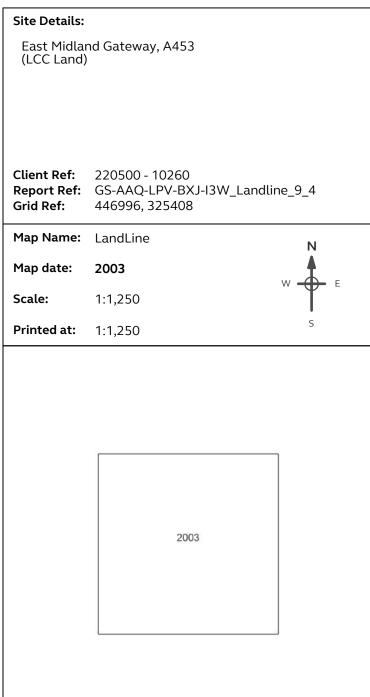
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Production date: 13 December 2024

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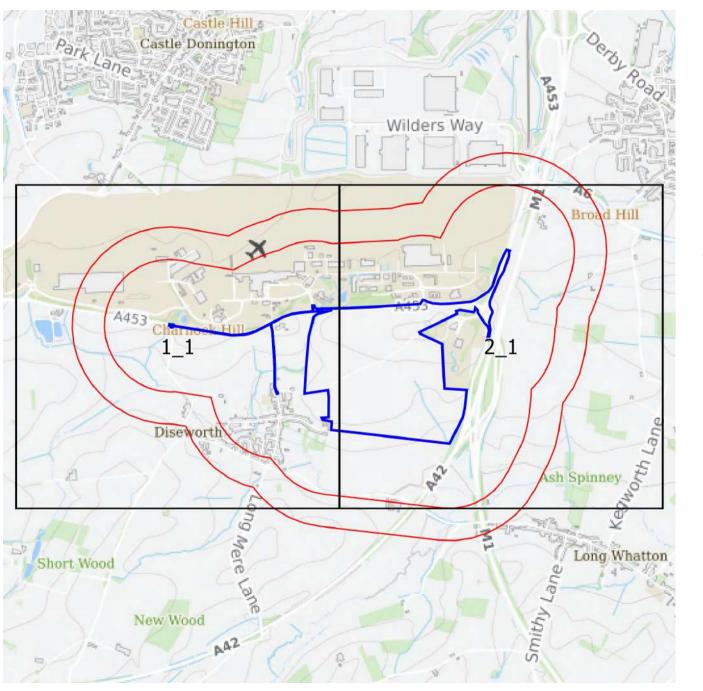




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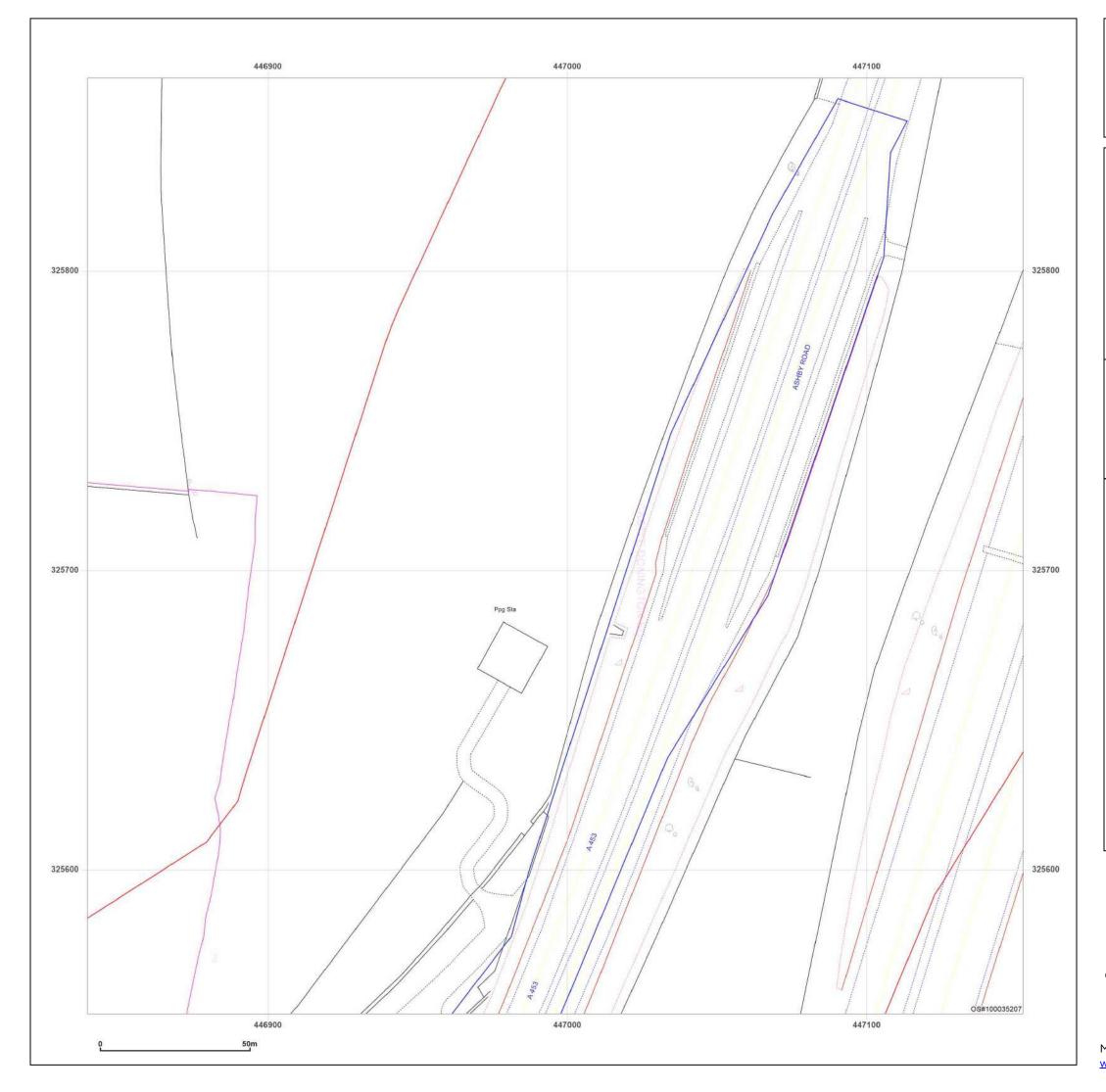
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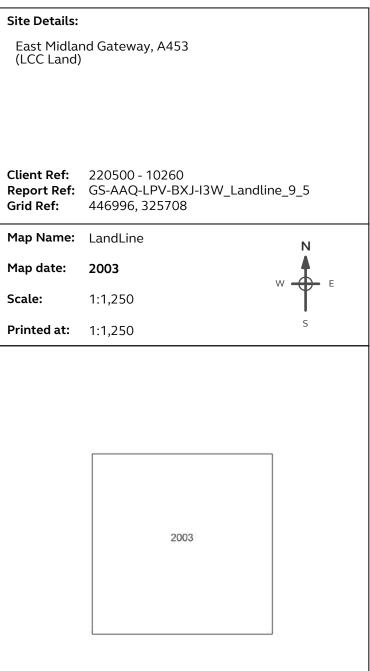


**Small Scale Grid Index** 







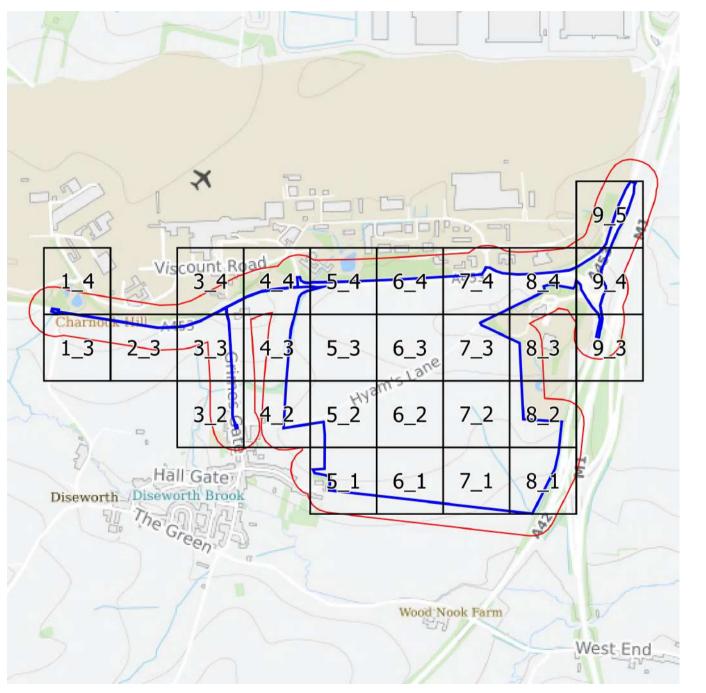




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Map legend available at:





**Landline Scale Grid Index** 





**Appendix 3: Historical Boreholes** 



**Appendix 4: GDMS Reports** 



Appendix 5: Geotechnical Risk Register



**Appendix 6: Service Drawings** 



Appendix 7: GDMS Reports for Main Site



## ANNEX A

(Ground Investigation Scoping Report)



