Statutory Consultation 2022

Preliminary Environmental Information Report

Volume 3: Appendix 17.1

Preliminary Risk Assessment of Land Contamination

Contents

		Page
1	**Introduction**	**4**
1.1	Scope and objectives	4
1.2	Structure of the report	4
1.3	Limitations	5
2	**Site details**	**6**
2.1	Site location	6
2.2	The scheme	6
2.3	Current land use	7
3	**Data sources**	**12**
3.1	Study area	12
3.2	Publicly available sources	12
3.3	Previous studies	13
3.4	Liaison with regulatory bodies and other organisations	16
4	**Proposed development**	**18**
4.1	Overview of development proposal	18
5	**Desk study information**	**23**
5.1	General	23
5.2	Topography	23
5.3	Site walkover	25
5.4	Site history	29
5.5	Environmental setting	37
5.6	Regulatory consultation	45
5.7	Review of previous reports	47
5.8	Additional relevant surveys	57
6	**Ground conditions**	**59**
6.1	Introduction	59
6.2	Ground model	59
6.3	Stratigraphic Sequence	59
6.4	Made Ground	60
6.5	Dry Valley Deposits	63
6.6	Clay with Flints	63
6.7	Chalk	63
6.8	Solution features	63
6.9	Contamination Conditions - Evidence from previous work	64

6.10 Contamination Conditions- Contaminants of concern 68

7 Hydrogeological conditions 73

7.1 General 73
7.2 Aquifer properties 73
7.3 Regional flow 74
7.4 Groundwater levels and variability 74

8 Summary and discussion 77

8.2 Adequacy of data 77
8.3 Summary of contamination risks within Proposed Development 80

9 Conceptual site model and preliminary risk assessment 85

9.1 UK Framework 85
9.2 Preliminary risk assessment 86
9.3 Summary of potential contaminant linkages (PCLs) 87

10 Conclusions and recommendations 92

10.1 Conclusions 92

References 101

FIGURES 104

Figure 1 Site Location plan
Figure 2a Proposed Masterplan – Phase 1
Figure 2b Proposed Masterplan – Phase 2a
Figure 2c Proposed Masterplan – Phase 2b
Figure 3 Site Areas
Figure 4 Current Land Uses
Figure 5 Highway Interventions
Figure 6 Topography
Figure 7a Historical Mapping (1900) Main Application Site
Figure 7b Historical Mapping (1947) Main Application Site
Figure 7c Historical Mapping (1975) Main Application Site
Figure 7d Historical Mapping (2002) Main Application Site
Figure 8a Historical Mapping (1879) Off-site Car Parks
Figure 8b Historical Mapping (1922) Off-site Car Parks
Figure 8c Historical Mapping (1977) Off-site Car Parks
Figure 8d Historical Mapping (2002) Off-site Car Parks
Figure 9 Potential Sources of Contamination
Figure 10 Geology Main Application Site
Figure 11 Geology Off-site Highway Interventions
Figure 12 Hydrology and Hydrogeology
Figure 13 Existing Water Features within the Proposed Development
Figure 14 Previous Ground Investigations
Figure 15 Ground Model
Figure 16 Periods of Landfilling
Figure 17a Groundwater Monitoring Locations

Figure 17b Maximum and Minimum Groundwater Levels

APPENDICES
Appendix A Groundsure Reports
Appendix B Correspondence
Appendix C Highway Intervention Plans
Appendix D Site Visit Records
Appendix E Historical Mapping Review
Appendix F Aerial Imagery Review
Appendix G Review of Ground Investigation Reports
Appendix H Conceptual Site Models and Potential Contaminant Linkages

Tables

Table 2.1: Current land use of each area and the surrounding areas
Table 3.1: Previous studies
Table 4.1: Summary of Proposed Development and associated earthworks
Table 4.2: Description of proposed Off-site Highway Interventions
Table 5.1: Summary of topography for Off-site Highway Interventions
Table 5.2: Summary of key observations from Arup site walkovers and site visits
Table 5.3: Site development summary
Table 5.4: Summary of the environmental setting of the development area
Table 5.5: Summary of written responses obtained from enquiries with Regulators and other organisations regarding former Eaton Green Landfill
Table 5.6: Review of key previous reports
Table 6.1: Summary of ground conditions encountered across the Proposed Development from GIs
Table 6.2: Period of filling, estimated volume and typical components of the landfill material
Table 6.3: Landfill material descriptions
Table 6.4: Potential contaminants on-site based on historical/current activities
Table 6.5: Potential contaminants off-site, within 250m based on historical/current activities
Table 8.1: Summary of data and adequacy
Table 9.1: Categorisation of risk
Table 9.2: Description of risk levels
Table 9.3: Summary of Moderate to High Risk PCLs
Table 10.1: Recommendations and further work

1 INTRODUCTION

1.1 Scope and objectives

1.1.1 This Preliminary Risk Assessment (PRA) of land contamination has been undertaken by Luton Rising (a trading name of London Luton Airport Limited) (the applicant) to support the application for a Development Consent Order (DCO) for the expansion of the airport, the Proposed Development. The type and scale of the airport expansion proposals meets the thresholds to be classified as a Nationally Significant Infrastructure Project (NSIP) for the purposes of the Planning Act 2008. Therefore, an application will be made to the Secretary of State for Transport for development consent.

1.1.2 The overall aim of the report is to provide an assessment of the potential contamination at the site, through a desk-based review of readily available information.

1.1.3 This report meets the requirements of a PRA as defined by current UK guidance, Land Contamination: Risk Management (Ref. 1) previously Contaminated Land Report (CLR11) (Ref. 2) and includes the following:

a. A description of published geological/hydrogeological features of the area;
b. A review of the historical land uses and contamination potential;
c. A review of readily available statutory information that may inform contamination potential;
d. A review of available site investigation reports to inform ground conditions;
e. A conceptual site model (CSM) that reviews the potential contaminants of concern and provides a qualitative assessment of the likely risks to the identified receptors; and
f. Recommendations for investigation, monitoring and other further works.

1.2 Structure of the report

1.2.1 The structure of this PRA report is as follows:

a. **Section 1**– Provides an overview of the scope and objectives of this report;
b. **Section 2** – Describes the existing site and its surroundings and provides a broad overview of the proposed 'Project';
c. **Section 3** – Describes the available data on which this study is based;
d. **Section 4** – Provides a detailed description of the Proposed Development and the likely interaction with the soils and groundwater at the site;
e. **Section 5** – Provides a review of the 'desk study' information in the context of the Proposed Development;

f. **Section 6**– Provides a detailed review of ground conditions based on information from previous investigations;

g. **Section 7** – Provides a detailed review of the hydrogeological conditions of the regional area and the Proposed Development;

h. **Section 8** – Provides a discussion of potential contaminative conditions at the Proposed Development and adequacy of the available data;

i. **Section 9** – Presents the development of the initial conceptual site model (CSM) derived from the information presented in Chapters 4-8 and a qualitative assessment of the potential risks; and

j. **Section 10** – Conclusions and recommendations.

1.3 Limitations

1.3.1 This report has been prepared for the applicant and takes into account their particular instructions and requirements. The benefit of this report may not be assigned to any third party. All reasonable skill, care and diligence have been exercised within the timescale available and in accordance with the technical requirements of the brief. Notwithstanding the efforts made by the professional team by undertaking the assessment and preparing the report, it is possible that other ground contamination or conditions as yet undetected may exist and consequently reliance on the findings of this report must be limited accordingly

2 SITE DETAILS

2.1 Site location

2.1.1 The area included in the application for development consent is located approximately 3.5 km east of Luton town centre and is centred around the airport at National Grid Reference (NGR) 513400, 221800. **Figure 1** shows the location and extent of the Proposed Development boundary.

2.2 The scheme

2.2.1 The Proposed Development covers approximately 360 hectares (ha). The majority of this land lies to the east of the existing airport, but also included are areas of the existing airport, runway and isolated land parcels north and west of the airport where road infrastructure will be upgraded.

2.2.2 The Proposed Development builds on the current operational airport with the construction of a new passenger terminal and additional aircraft stands on land owned by the Applicant located to the north east of the runway. This will take the overall passenger capacity from 18 million passengers per annum (mppa) to 32 mppa. In addition to the above and to support the initial increase in demand, the existing infrastructure and supporting facilities will be improved in line with the phased growth in capacity of the airport.

2.2.3 The delivery of the Proposed Development will be phased, see **Section 2.2.5** for further details. The proposed masterplans for the site are presented in **Figures 2a, 2b and 2c.**

2.2.4 Key elements of the Proposed Development include the following:

a. Extension and remodelling of the existing passenger terminal (Terminal 1) to increase the capacity;
b. New passenger terminal building and boarding piers (Terminal 2);
c. Earthworks to create an extension to the current airfield platform, material for these earthworks would be generated on site;
d. Airside facilities including new taxiways and aprons, together with relocated engine run-up bay and fire training facility;
e. Landside facilities, including buildings which support the operational, energy and servicing needs of the airport;
f. Enhancement of the existing surface access network, including a new dual carriageway road accessed via a new junction on the existing New Airport Way (A1081) to the new passenger terminal along with the provision of forecourt and car parking facilities;
g. Extension of the Direct Air to Rail Transit (DART) with a station serving the new passenger terminal;
h. Landscape and ecological improvements, including the replacement of existing open space; and
i. Further infrastructure enhancements and initiatives to support our goal of a net zero airport operation by 2040, with interventions to support carbon neutrality being delivered sooner including facilities for greater public transport usage, improved thermal

efficiency, electric vehicle charging, on-site energy generation and storage, new aircraft fuel pipeline connection and storage facilities and sustainable surface and foul water management installations.

2.2.5 The Proposed Development will be delivered in two construction phases:

a. Phase 1: Expansion of Terminal 1 (T1) to increase capacity from 18 to 21.5 mppa. Works scheduled to commence in 2025 and be complete by mid 2027.

b. Phase 2a: Construction of new Terminal 2 (T2) and associated facilities to increase capacity from 21.5 mppa to 27 mppa upon opening, at which time the capacity of T1 will be scaled back to 20 mppa. Works scheduled to commence in early 2033 ending 2036 and will enable a step up in capacity in Q1 2037.

c. Phase 2b: Expansion of Terminal 2 and associated facilities. Works are scheduled to commence in 2037, and will deliver incremental capacity increases from 27 mppa to 32 mppa. T2 will have capacity for 12 mppa. The works will be complete to enable a step up in capacity in 2041.

2.2.6 The Proposed Development is split into four distinct geographical components:

a. Main Application Site;

b. Off-site Car Parks

c. Off-site Highway Interventions; and

d. Off-site Planting.

2.2.7 For reporting purposes these areas have been further subdivided into smaller areas, as detailed below and identified on **Figure 3:**

a. Main Application Site into Existing Airport Land, LLAOL Contractor's Compound, the proposed Airport Access Road (previously known as Century Park Access Road (CPAR)) and Area A – Former Landfill, Area B – Land West of Winch Hill Lane and Area C – Land East of Winch Hill Lane

b. Off-site Car Parks into Areas D – Off-site Car Park North and E – Off-site Car Park South.

2.3 Current land use

2.3.1 The current land uses of each of the areas of the Proposed Development and the surrounding area are provided in

Table 2.1 below and shown on **Figure 4.**

Table 2.1: Current land use of each area and the surrounding areas

Sub division	Approx. Size Ha	Within Area	Surrounding Area
Main Application Site			
Existing Airport Land	175	The airport infrastructure consists of a terminal building, runway with associated taxiways, stands, aprons and hangars, maintenance facilities and airport related offices. A fire station is located in the southwest of the terminal building. The associated business park to the north and west of the main airport area also accommodates a range of aircraft and airport production and maintenance businesses, including two fuel depots. A number of car parks for short-, mid- and long-term stay are provided for airport users.	Eaton Green Road and Darley Road mark the northern perimeter of the Main Application Site area (Existing Airport Land and Areas A, B and C) and a balancing pond maintained by Thames Water is adjacent Area A at the northern boundary. Fifty metres north of Eaton Green Road are offices/commercial buildings and a large residential estate. North of Darley Road is a golf course/arable land and farm buildings. Winch Hill Lane, runs north to south, between Areas B and C. Agricultural land forms the north east, eastern and southern boundaries. At the south west boundary are industrial /commercial activities. West of the site is further car parking which runs parallel to Vauxhall Way, beyond which are the remaining operations of the Vauxhall Factory. Small industrial units also form sections of the north west boundary between President's Way and Eaton Green Road.
LLAOL Contractor's Compound		The south eastern area of the airport (see **Figure 4**) is a compound used by the operators contractors for storage of various items including construction arisings from Terminal 1 improvements. In the east is the fire training ground. South of this are two existing airport soakaways (known as the central soakaway). The north east balancing pond is on the boundary with Area B.	
Airport Access Road	65	Existing carriageways; President's Way and Percival Way to the east, with industrial /commercial land on the central section of proposed carriageway and undeveloped land along the western section along Dairyborn escarpment. The eastern section of the proposed Airport Access Road is on the landfill and is part of Wigmore Valley Park (WVP), see Area A below.	

Sub division	Approx. Size Ha	Within Area	Surrounding Area
A – Former Landfill	40	This area comprises public open space, known as Wigmore Valley Park (WVP) and car parking. Sports pitches are present in the north eastern part of the area. The long-stay car park for the airport is present in the west of the area. In the northwest is another car park (operated by TUI). The central and southern part of the site are a County Wildlife Site (CWS).	
B – Land West of Winch Hill	96	The northwest part of this area forms part of WVP. Within this area is a community centre, skateboard park, children's playground and allotment gardens as well as public open space, scrub and woodland areas. The rest of the area comprises agricultural land with a coppice and small woodland in the south, designated as ancient woodland. Winch Hill Fam and New Winch Hill Cottages are located on the eastern boundary on Winch Hill Lane.	
C – Land East of Winch Hill	36	Predominately arable land with some hedgerows/trees. There is a woodland area present which bisects the site. Two agricultural barns are located at the western boundary and a large residential property 'Winch Hill House' to the south of these. The National fuel delivery pipeline passes underground north east to south west through Area C.	
Off-site Car Parks			
D – Off-site Car Park North	4	This area comprises a large earthwork platforms aligned north to south across the central and eastern areas, the platform is currently occupied	Bounded on all sides by roads: to east is the A1080 (New Airport Way), with local access roads (Vauxhall Road) to the west

Sub division	Approx. Size Ha	Within Area	Surrounding Area
		by a trailer park for storage of heavy goods vehicle (HGV) trailers. A car park and vehicle servicing area are located along the north western area, at a lower level to the trailer park area, commensurate with the adjcanet public highway.	and south and an access road to a car dealership at the northern boundary. Beyond Vauxhall Road to the south lies the Midland Mainline railway line and to the west further industrial buildings and to the east of the airport runway.
E – Off-site Car Park South	1	The site was recently used as a storage compound by the contractor working on the MPT. Part of the site is covered with hardstanding and two structures are also present from historical use by Vauxhall Motor Company.	The north eastern boundary is formed by Midland Mainline railway line, with the A1081 (New Airport Way) to the south east of the site. An access road coming off Parkway Road lies to the northwestern boundary and the southern boundary is formed by the slip road to the A1081. North east of the site is Area D, north west is a car park for Luton Airport Parkway Station beyond which are commercial activities, south of the site are wooded and landscaped grounds associated with Luton Hoo Hotel , Golf and Spa, which lie north and south of the River Lea.
Off-site Planting			
Hedgerow Enhancements	-	Field boundaries to agricultural land, north and northeast of the main site area. One area is to the south of the site along field boundaries from Chiltern Hall and an access track to Someries Castle.	Agricultural land.
Off-site Highway Interventions			
14No. Off-site Highway Interventions	-	Highway Intervention areas currently comprise a series of asphalt carriage ways, pavement and landscaping to	Residential and commercial properties bound the areas of off-site Highway Interventions. Apart from

Sub division	Approx. Size Ha	Within Area	Surrounding Area
		road verges. Most junctions are located to the north, west and southwest of the site within a 2km radius, with three junctions located in Hitchin 9km to the north east of the site. See **Table 4.2** for further detail.	the junctions A1081 London Road North and South and M1 junction 10 which are bordered by greenfield /undeveloped land.

3 DATA SOURCES

3.1 Study area

3.1.1 A search area was created which covered the Proposed Development plus up to 2km buffer from the redline boundary depending on the potential contamination source or sensitive receptor under consideration, **see Section 3.1.3** below. The search area was used to obtain data from a number of sources; both publicly available online sources and purchase of bespoke data sets, see **Section 3.2.** Additionally there are a large number of reports and site investigations relating to the existing airport and surrounding area, the most relevant of which have been reviewed for this report and are detailed in

Table 5.6**.**

3.1.3 Guidance contained within R&D Publication 66 (Ref. 3) states that off-site features typically within an area up to 250m from the indicative development boundary should be considered within the hazard identification stage of site assessment. However, features of greater distances should be considered if they have the potential to affect a greater distance (dependant on the form of potential contamination and likely pathways). The distances used are noted below and are for the Main Application Site and Off-site Car Parks as this is the location of the most significant earthworks:

a. Environmental permits and pollution incidents up to 250m;
b. Historical land uses up to 250m;
c. Landfills up to 1km;
d. Sites of ecological significance/environmental designations to 2km; and
e. Aquifers, groundwater abstractions and surface water features up to 2km.
f. The wider hydrogeological regime is discussed in **Section 7**.

3.1.4 The buffer to the Off-site Planting and Off-site Highway Intervention areas is limited to 250m for current and historical land uses and current and historical waste management facilities /landfills as only very shallow soils will be disturbed in these areas by the works. The nature of the works also means there will be no potential for pathways to be formed to off-site hydrological and hydrogeological features and therefore these receptors have not been considered.

3.2 Publicly available sources

3.2.1 The following published information sources have been reviewed:

a. Geological Survey of England and Wales 1:50,000 Geological Map (Leighton Buzzard) Solid and Drift, Sheet 220 (Ref. 4);
b. Geological survey of Great Britain (England and Wales) Geological Map - Hitchin 221 (Solid and Drift) 1:50,000 series (Ref. 5);
c. Geology of the country around Hitchin. Memoir for 1:50,000 geological Sheet 221 (England and Wales) (Ref 6);

d. British Geological Survey Onshore GeoIndex (Ref. 7)
e. Groundsure Reports and associated historical mapping (Ref. 11) see **0**);
f. The Environment Agency Website – 'What's in Your Backyard?' (Ref. 8) ;
g. DEFRA Data Services Platform (Ref. 9)
h. Multi Agency Geographical Information for the Countryside (MAGIC) maps (Ref. 10)
i. Groundsure Data viewer (Ref. 11)

3.3 Previous studies

3.3.1 Reports which have been reviewed for the PRA are listed in **Table 3.1.** The most notable findings from these are reported in **Sections 6, 7 and 8.** The reports cover the Main Application Site and are not inclusive of the Off-site Car Parks (Areas D and E), Off-site Highway Interventions or Off-site Planting areas.

Table 3.1: Previous studies

Author	Date	Report Title
Fugro Engineering Services (Ref. 12)	2003	East Luton Corridor Improvements for Luton Borough Council
Burks Green (Ref. 13)	2004	Harrods Aviation, LLA Hangar 202, Apron and Taxiway Link, Foundation Works Risk Assessment
Terrence O'Rourke (Ref. 14)	2004	Hangar 202, Apron and Taxiway Link London, Luton Airport Planning Supporting Statement
Wardell Armstrong (Ref. 15)	2004	Southside and City Developments Ltd. Vauxhall Motors Site, Luton, Bedfordshire. Initial Phase Site Investigations, Preliminary Hydrogeological Assessment (Amended December 2004)
Wardell Armstrong (Ref. 16)	2004	Southside and City Developments Ltd. Vauxhall Motors Site, Luton, Bedfordshire. Preliminary Review of Available Data
Wardell Armstrong (Ref. 17)	2004	Southside and City Developments Ltd. Vauxhall Motors Site, Luton, Bedfordshire. SuPCLementary Ground Investigation Report (Existing Vehicle Release Facility)
RSA Geotechnics Limited (Ref. 18)	2004	Harrods Aviation, LLA Hangar and Taxiway Extension at Luton Airport, Preliminary Factual Report
Casella Stanger (Ref. 19)	2004	Harrods Aviation Limited, LLA Hangar 202, Apron and Taxiway Link, Review of Environmental Reports

Author	Date	Report Title
Wardell Armstrong (Ref. 20)	2005	Southside and City Developments Ltd. Vauxhall Motors Site, Luton, Bedfordshire. Ground Investigation Report
Wardell Armstrong (Ref. 21)	2005	Southside and City Developments Ltd. Vauxhall Motor Site, Luton, Bedfordshire, SuPCLementary Ground Investigation Report (Existing Vehicle Release Facility)
WSP Environmental Limited (Ref. 22)	2006	Phase 1 Environmental Assessment (Project Odyssey) London Luton Airport
Vertase F.L. I (Ref. 23)	2006	Contract Completion Report, Napier Park, Luton
Wardell Armstrong (Ref. 24)	2007	Explore Investments Ltd. Napier Park, Kimpton Road, Luton. Groundwater Risk Assessment
URS (Ref. 25)	2007	East London Corridor Improvements, Geotechnical Report for Luton Borough Council
Mott Macdonald (Ref. 26)	2008	Veolia Water Projects, London Luton Airport, Surface Water Drainage, Asset Management Plan Report
Wardell Armstrong (Ref. 27)	2008	Explore Investments Limited, Stirling Place (Former Kimpton distribution centre) Kimpton Road, Luton, Bedfordshire, Ground Investigation Report
Wardell Armstrong (Ref. 28)	2008-2012	Various validation reports for Zones 1-6 of Napier Park
Wardell Armstrong (Ref. 29)	2012	Letter report to Environment Agency on Groundwater Monitoring at Napier Park and Stirling Place
AECOM (Ref. 30)	2012	Foundation Works Risk Assessment Replacement Hangar and Cargo Compound Signature Flight Support
Soil Engineering (Ref. 31)	2012	Signature Flight Support London Luton Limited, Report on a Ground Investigation for Luton Airport FBO
AECOM (Ref. 32)	2012	Geotechnical & Geo-Environmental Interpretative Report
AECOM (Ref. 33)	2012	Phase 1 Geotechnical & Geo-Environmental Desk Study

Author	Date	Report Title
Delta Simmons Environmental Consultants Limited (Ref. 34)	2012	Preliminary Site Investigation Report for Proposed Taxiway Foxtrot
RSK Environment Limited (Ref. 35)	2012	RPS Group Limited, Ocean Sky Jet Building, Luton Airport, Geoenvironmental and Geotechnical Ground Investigation
Waterman (Ref. 36)	2013	Napier Park and Stirling Place Environmental Statement
Ivy House (Ref. 37)	2013	Materials Management & Remediation Verification Report
Crossfield Consulting (Ref. 38)	2013	New ramp, Adjacent to Stand 80
Mott MacDonald (Ref. 39)	2014	London Luton Airport Operations Limited, Phase 1 Geotechnical and Geo-environmental Desk Study
Mott MacDonald (Ref. 40)	2014	London Luton Airport Operations Limited, London Luton Airport Surface Water Drainage Strategy
Mott MacDonald (Ref. 41)	2015	London Luton Airport Expansion, Contamination Risk Assessment Report – Phase 1 Development
Concept Site Investigations (Ref. 42)	2015	London Luton Airport Operations Limited, Luton Airport Terminal Extension, Site Investigation Report
Mott MacDonald (Ref. 43)	2017	London Luton Airport Expansion, Contamination Risk Assessment Report, Phase 2 and 3 Development (Condition 17)
Concept Site Investigations (Ref. 44)	2017	London Luton Airport Operations Limited, Geo-Environmental GI, Site Investigation Report
Pell Frischmann (Ref. 45)	2016	Luton Airport Perimeter Road Preliminary Sources Study Report
Structural Soils Limited (Ref. 46)	2017	Luton Borough Council, Century Park Access Road, Factual Report on Ground Investigation
Structural Soils Limited (Ref. 47)	2017	London Luton Airport Limited, Century Park, Factual Report on Ground Investigation
Arup (Ref. 48)	2017	London Luton Airport Limited, Century Park Development Airport Way, Contamination Preliminary Risk Assessment – Former Eaton Green Landfill
Structural Soils Limited (Ref. 49)	2017	London Luton Airport Limited, Landfill, Factual Report on Ground Investigation

Author	Date	Report Title
Arup (Ref. 50)	2017	London Luton Airport Limited, Century Park Development, Airport Way – Landfill Area, Contamination Quantitative Risk Assessment
Arup (Ref. 51)	2017	Luton Airport Mass Passenger Transit System, Land Contamination Preliminary Risk Assessment
Structural Soils Limited (Ref. 52)	2017	London Luton Airport Mass Passenger Transit System, Ground Investigation Phase 1: Factual Report
Arup (Ref. 53)	2017	Luton Airport Mass Passenger Transit System, Land Contamination Quantitative Risk Assessment
Geotechnics Ltd (Ref. 54)	2018	Century Park Access Road, Additional Works, Factual Report
Arup (Ref. 55)	2018	London Luton Airport Limited, Century Park, Airport Way, Play and Skate – Contamination Desk Study
Arup (Ref. 56)	2018	London Luton Airport Limited, London Luton Airport Expansion Ground Investigation Strategy
AECOM (Ref. 57)	2018	London Luton Airport Limited, Luton Hangar 24 Ground Investigation, Factual Ground Investigation Report
Arup (Ref. 58)	2018	London Luton Airport Limited, Proposed Airport Potential Parking Sites, Review of Ground and Construction Issues
Arup (Ref. 59)	2018	London Luton Airport Limited, Hangar 24, Ground Investigation Interpretative Report
GL Hearn (Ref. 60)	2018	Environmental Statement (Volume 1: Non-Technical Summary) New Century Park Luton
GL Hearn (Ref. 61)	2018	Volume 2: Environmental Statement – Addendum, Land adjacent to Luton Airport: New Century Park
G L Hearn (Ref. 62)	2018	Planning Statement Addendum, New Century Park
AECOM (Ref. 63)	2019	London Luton Airport Limited, Luton Airport Landfill, Main Ground Investigation – Factual Report
Mott MacDonald (Ref. 64)	2019	London Luton Airport, Taxiway Foxtrot Verification Report

3.4 Liaison with regulatory bodies and other organisations

3.4.1 A number of organisations and regulatory bodies were contacted as part of previous work (Ref. 48) (Ref. 51) undertaken for part of the site. These included:

a. Environmental Health, Waste and Planning Departments and Place and Infrastructure at Luton Borough Council;

b. Environment Agency;
c. Bedfordshire Archives and Records Service;
d. Environmental Health Department at Central Bedfordshire Council;
e. Luton Borough Council - Residential Regulatory Manager;
f. Central Bedfordshire Council - Environmental Health Practitioner;
g. North Hertfordshire District Council - Information and Asset Officer; and
h. Historic England.

3.4.2 Copies of correspondence are provided in **Appendix B**. A summary of the responses is presented in **Section 5**.

4 PROPOSED DEVELOPMENT

4.1 Overview of development proposal

4.1.1 This chapter presents a detailed description of the Proposed Development and the likely associated earthworks within each of the areas. The extent of earthworks within each of the area is important in assessing the potential risk to receptors from contamination. A description of the Proposed Development is described below in **Table 4.1** and the general layout shown in **Figures 2a, 2b and 2c.**

4.1.2 The project will be delivered in three phases with each phase matched to meet the forecast passenger demand. The majority of construction is scheduled to take place during phases 2a and 2b.

Table 4.1: Summary of Proposed Development and associated earthworks

Development Area	Proposed Development	Likely earthworks
Existing Airport Land	Terminal 1 Improvement of existing terminal area including refurbishment of the terminal, small extensions to the north east and south east corners, and a new apron and stands. A section of the DART extension will also be constructed by cut and cover. Relocation of the fire training ground with its associated facilities to the south of the runway. Relocation of staff car park.	Earthworks include piling for the new pier and excavation of Made Ground and natural soils for the section of DART. Construction of decked car park. Relocation of the fire training ground is likely to require minor earthworks for construction of the soakaway and associated drainage.
LLAOL Contractor's Compound	Apron, piers, stands, taxiways, engine run up bay and attenuation tank.	Earthworks will be required to create an aviation platform to tie-in with the existing airport levels. Made Ground and natural soils to be excavated and relocated to southern end of Area A to surcharge the landfill prior to development. Creation of temporary stockpiles of materials suitable for reuse in construction and landscaping. Construction of the airside platform with engineering fill (chalk) excavated from Area B .

Development Area	Proposed Development	Likely earthworks
Airport Access Road	Construction of new carriageway / duelling of existing carriageway to create a new link road from Airport Way to Terminal 2 (T2) with connections to a series of new access and on-airport distributor roads for T2 and New Century Park (NCP).	Earthworks will be required to create the new link road including excavation to create cuttings and construction of reinforced earth embankment. Excavation of landfill material where road is located in Area A.
A – Former Landfill	<u>North</u> NCP developments; office, hotels, warehouses and car parking. Airport infrastructure car parking, new road infrastructure including eastern section of Airport Access Road and landscaping. Infiltration tank.	Excavation of landfill material for provision of Airport Access Road and minor access roads and to create development platform. Piling through the landfill into underlying chalk for foundations to proposed buildings and infiltration tank.
	<u>South</u> New terminal building. Piers, apron, stands and taxiways. Extension to the Luton DART to the new terminal and new station. Energy centre, coach station and car parking.	Major earthworks to create a development platform to tie-in with the existing airport levels – excavation, processing and relocation of landfill wastes/Made Ground to extend landside platform east of landfill and for DART tunnel and station. Import of engineering fill (chalk) from Area B for development platform. Surcharging of landfill with stockpiled soils excavated from LLAOL Contractor's compound. Piling through the landfill into underlying chalk for foundations.
B – Land West of Winch Hill Lane	Ancillary airport buildings. Fuel Storage Area and pipeline. Carparking. Water treatment plant Infiltration tanks and underground water storage tank. WVP community centre, allotment gardens and parkland will be retained. Relocated public parkland.	Major excavation of clay and chalk to provide site-won engineering materials for the airside development platform. Piling into underlying chalk for foundations. Excavation of natural ground for provision of access road and car parks. Excavation for installation of the pipeline connection to the National fuel delivery pipeline. Some landscaping works will be required for preparing the land to be suitable for re-provision of public parkland. Creation of temporary stockpiles of materials suitable for reuse in construction and landscaping.

Development Area	Proposed Development	Likely earthworks
C – Land East of Winch Hill Lane	Creation of infiltration basin (below ground infiltration tank).	Excavation for infiltration basin. Excavation and connection to National fuel delivery pipeline. Creation of temporary stockpiles of materials suitable for reuse in construction and landscaping.
Off-site Car Parks		
D - Off-site Car Park North	Car park	Potential for resurfacing, re-levelling
E – Off-site Car Park South	Car park.	Construction of a multi-storey car park.

4.1.3 The application for development consent includes proposed off-site improvements to enhance the local highways network and accommodate increased traffic volumes. The locations of the proposed improvements are shown in **Figure 5** and **Appendix C** provides illustrations of the current proposals, and these are summarised in **Table 4.2** below:

Table 4.2: Description of proposed Off-site Highway Interventions

Location	Description
Eaton Green Road / Lalleford Road	Mini roundabout to be replaced with a three-arm signalised junction. Minor kerb line amendments are necessary along Eaton Green Road and Lalleford Road. All works contained within the highway boundary.
Eaton Green Road/Frank Lester Way	Roundabout replaced with a signalised junction, Frank Lester Way made one-way northbound.
Eaton Green Road / Wigmore Lane	Roundabout to be replaced with a four-arm signalised junction with on-demand pedestrian crossing facilities. Reconfiguration of the existing Eaton Green Road carriageway to provide two entry and two exit lanes from the Wigmore Lane junction, with widening to the south of Eaton Green Road into existing verge areas. Mini roundabout at Wigmore Lane and ASDA access road junction replaced with three arm signalised junction. Works would tie into the Airport Access Road which runs to the south east with a four arm signalised junction with on-demand pedestrian crossing.
Wigmore Lane / Crawley Green Road/Raynham Way	Two roundabouts are to be replaced by four arm signalised junctions with on-demand pedestrian crossing facilities. Local carriageway widening and realignment is proposed along Wigmore Lane within the existing highway boundary. Realignment of Twyford Drive is proposed into existing grass verge areas.
Eaton Green Roundabout	Partial signalisation. Widening of Vauxhall Way to dual carriageway to be completed as part of LBC East Luton Study.

Location	Description
Crawley Green Road / Lalleford Road	Mini roundabout to be replaced with a three-arm signalised junction.
Windmill Road / Kimpton Road	Minor widening of the carriageway and kerb realignment to convert the mini-roundabout into a three-arm signalised junction.
Windmill Road / Manor Road / St Mary's Road / Crawley Green Road	Widening, reconfiguration and signalisation of roundabout. Widening of the circulatory carriageway to provide four lanes. Kerbline amendments along Windmill Road to provide a two-lane diverge from the roundabout. Widening of subway portal; to accommodate four lanes.
A1081 New Airport Way / B653 / Gipsy Lane/Kimpton Road/Vauxhall Way (Areas D and E)	Reconfiguration to the A1081 to provide three lanes in both directions through the signalised junction. Widening of Airport Way with dedicated left turn land provided to Kimpton Road.
A1081 / London Road (North)	Minor amendments to kerb lines on the east of the roundabout to provide a dedicated exit lane onto the A1081 eastbound. Partial signalisation of the roundabout on two of the arms.
A1081 / London Road (South)	Partial signalisation of junction and new road markings.
M1 J10	Widening to the northbound off-slip to provide a third lane on the approach to the roundabout, with the widening accommodated in existing verge and embankment and signalised junction. Northbound exit into M1 carriageway widening to southwest with existing farm access bridge demolished and rebuilt. Amendments to white lining on western circulatory carriageway to provide five circulating lanes, with this widening accommodated in the existing landscaped area on the inside of the roundabout. Amendments to the exit from the roundabout onto the A1081, to allow three lanes to diverge from the roundabout contained within existing carriageway. Southbound off slip signalised, amendment to white lining. Minor carriageway widening to provide left lane turn diverge onto M1 South. Southbound on slip, amendments to white lining.
Hitchin Junctions	
A602 Park Way / Upper Tilehouse Street	Minor widening to the roundabout entries on Upper Tilehouse Street and Park Way to increase the length of the two lane entry.
A505 Offley Road /Upper Tilehouse Street	Minor widening and realignment of Upper Tilehouse Street entry.
A602 Park Way / Stevenage Road/Hitchin Hill	Minor widening to the roundabout entries on Hitchin Hill, Stevenage Road and Park Way to increase the length of the two lane entry.

5 DESK STUDY INFORMATION

5.1 General

5.1.1 This section provides a description of the Proposed Development and surrounding areas based on the study area described in **Section 3.1**; including topographical detail, information from site surveys, historical development and physical and environmental setting.

5.2 Topography

5.2.1 The airport is located on an elevated escarpment area that forms part of a scarp slope of the Chilterns Hills. The existing airport land is typically flat and lies at an elevation range between 154m above ordnance datum (AOD) and 155m AOD. The land rises to the west of Percival Way to an elevation of approximately 160m AOD at the Proposed Development boundary. The land then falls sharply to the car park at Vauxhall Way to an elevation of 130m AOD.

5.2.2 The ground levels vary in the south eastern area of the airport, used by the LLAOL contractor, due to the ongoing storage of soils excavated as part of airport improvement works.

5.2.3 The area to the east of the existing airport is characterised by a series of dry valleys which were formed during the last glacial period, see **Figure 6**.

5.2.4 Two dry valleys cross the Main Application Site. A former landfill (Eaton Green Landfill), covers Area A and fills part of the head of one of the dry valleys. The former landfill has an undulating surface of elevation between 150m AOD and 155 m AOD with the southern part being particularly uneven and the ground level to the south and east dropping off steeply. The elevation at the bottom of the dry valley adjacent to the landfill is approximately 130m AOD.

5.2.5 There is a plateau between the two dry valleys, which runs through Areas B and C. At the northwestern corner of Area B ground levels are around 150m AOD. This gently slopes to the southeast to around 139m AOD in Area C.

5.2.6 Areas D and E and associated road junctions are situated on the side of the River Lee valley. Area D has a raised earthwork plateau in the south of the site, which covers approximately 2.4ha of the area and is at a significantly higher level than the surrounding areas at 127m AOD. New Airport Way, adjacent to the west is at a level of 120m AOD, and Vauxhall Road to the east is at a level of 107m AOD. There is an access ramp which runs along the southern and eastern boundary of Area D which leads to the plateau area. The northern portion gently slopes from east to west, from approximately 114.5m AOD to 110m AOD.

5.2.7 Area E comprises three distinct earthwork platforms decreasing in height from east to west; the approximate levels are 114m AOD, 110m AOD and 107m AOD respectively.

5.2.8 The area comprising the Off-Site Planting, north and northeast of the site is situated within a series of small valleys. The valley spine traverses to the east at

an elevation of 120m AOD. The topography typically rises to the north up to an elevation of 150m AOD.

5.2.9 Topography for each Off-site Highway Intervention area has been summarised in **Table 5.1.**

Table 5.1: Summary of topography for Off-site Highway Interventions

Location	Distance to the airport	Description
Eaton Green Road / Lalleford Road	0.47km N	This is a small "T" junction between Eaton Green Road and Lalleford Road and lies at an elevation of 153m AOD.
Eaton Green Road / Frank Lester Way	0.5km N	This is a three-arm roundabout between Eaton Green Road and Frank Lester Way Road and lies at an elevation of approximately 154m AOD
Eaton Green Road / Wigmore Lane	0.64km N	Two roundabouts linking Eaton Green Road and Wigmore Lane. The northern area of the site lies at an elevation of 143m AOD and gently slopes south to an elevation of 140m AOD.
Eaton Green Road Roundabout	0.2m NW	A roundabout linking Eaton Green Road and Vauxhall Way, at approximate elevation of 119m AOD.
Wigmore Lane / Crawley Green Road	0.76km N	Two roundabouts linking Crawley Green Road and Wigmore Lane. The northern area of the site lies at an elevation of 145m AOD and gently slopes south to an elevation of 143m AOD.
Crawley Green Road / Lalleford Road	1km N	A small modified "T" junction between Crawley Green Road and Lalleford Road with access onto Fermor Crescent. The site lies at an elevation of 154m AOD.
Windmill Road / Kimpton Road	1.2km W	A small "T" junction between Windmill Road and Kimpton Road and lies at an elevation of 105m AOD.
Windmill Road / Manor Road / St Mary's Road / Crawley Road	2km W	A roundabout linking St Marys Road, Manor Road, Windmill Road and Crawley Road and lies at an elevation of 105m AOD.
A1081 / London Road (North)	3.2km SW	A roundabout linking New Airport Way to London Road. The site lies at an elevation of 160m AOD.

Location	Distance to the airport	Description
A1081/ London Road (south)	3.2km SW	Three-arm roundabout linking London Road to New Airport Way, elevation is approximately 150m AOD.
M1 J10	3.9km SW	M1 Junction 10 access and egress. The northern area of the site lies at an elevation of 154m AOD which rises to the south up to 160m AOD and gradually decreases further south to 153m AOD.
Hitchin Junctions		
A602 Park Way / A505 Upper Tilehouse Street	9.7km NE	Four-way roundabout linking Old Park Road, Payne's Park and Upper Tilehouse Street. The site lies at an elevation of 72m AOD.
Moormead Hill / B855 Pinton Road / Upper Tilehouse Street	9.6km NE	Junction between Moormead Hill, Pinton Road and Upper Tilehouse Street and lies at an elevation of 77m AOD.
A602 Park Way / Stevenage Road	9.5km NE	A five-way roundabout between Park Way, Stevenage Road and Hitchin Hill. The site lies at an elevation of 85m AOD in the north and gradually rises to 87m AOD to the south.

5.3 Site walkover

5.3.1 As part of previous work undertaken by Arup (Ref. 48) (Ref. 51) several site walkovers and visits have been undertaken. Walkover's of the existing airport land have been undertaken for certain areas due to security restrictions. These are summarised in **Table 5.2. Appendix D** contains site visit records, including photographs.

5.3.2 Site walkovers for the Off-site Planting and Off-site Highway Intervention areas have not been undertaken.

Table 5.2: Summary of key observations from Arup site walkovers and site visits

Date	Area	Key Observations
25 October 2015	A – Former Landfill	a. The former landfill area was noted to be at a higher elevation than the surrounding area. It was noted to have a good grass coverage, with trees and bracken around the outside edges of the site; b. On the north eastern slope of the landfill some yellowing of the grass was noted, no other vegetation stress or die back was observed; c. Adjacent to the northwest boundary of the site was a community centre and conference facility, Skate Park and children's playground. To the north of these there was a structure within a wooded area, most likely a gun turret from World War II;

Date	Area	Key Observations
		d. A small area of allotments was present approximately 100 m east of the community centre; e. The surface soil of the landfill was noted to be slightly clayey in place, which may represent capping material placed on the landfill; f. The north of the landfill is predominately flat; a football pitch is present in this area. The south of the landfill has a more undulating surface and is at a higher elevation than the northern part. g. Some water logging was noted, primarily in the south of the landfill. In this area large puddles were observed up to several metres in diameter, with some areas noted to be particularly marshy with reed type vegetation. The water logging of the surface in places may suggest areas of differential settlement; h. Chalky material was exposed at the surface in some areas in the south of the landfill; i. An old oil drum was noted at the surface in the south of the landfill area; j. The landfill drops off steeply to the southeast, at the base of the slope several waste objects were noted to be present at the surface which may have originated from the former landfill including tyres, glass bottles, oil drums and car parts; k. A series of manhole covers were present in the north of the landfill in a linear formation with concrete surrounds. These were noted to be a possible leachate collection system or drainage; l. The areas around the manhole covers and also refuse bins suggest that settlement of approximately 0.5 m - 1 m may have occurred in the north of the landfill; m. In the southwest of the landfill it was noted that water was running off the adjacent area to the south into the site; and n. The Luton Airport long stay car park in the west of the site was built over part of the former landfill and was noted to have some potential differential settlement as indicated by the undulating surface. Ponding of water was also noted in areas of the car park.
14 September 2016	B – Land West of Winch Hill Lane	a. A bridleway was noted to cross the far western side of the Country Park, parallel to a mature woodland. The bridleway and woodland were on a broad bund of gravelly Made Ground 0.5 m – 1.0 m higher than the land adjacent. This separates the park and former landfill; b. The land was agricultural to the east and south of the bridleway. A large open field with recently harvested bean crop was noted with large amounts of topsoil visible; c. The shallow dry valleys within the site were visible, cutting the terrain; d. Occasional shallow depressions were evident across the landscape;

Date	Area	Key Observations
		e. Towards the northern edge of site, the flints in the topsoil appeared smaller and more rounded than on the south side of the dry valley; f. Within the dry valleys, no obvious wetland vegetation was present; and g. Four boreholes were noted on the western boundary with the landfill site. Three of these were within a field and appeared unserviceable with damaged headworks. One borehole encountered slightly further west appeared locked and serviceable.
25 October 2015	LLAOL Contractor's Compound	a. A fire training area was noted at the west of the site with approximately 30% hardstanding with the remaining area grassed. Standing water was noted within the grassed area; b. Excavated soils were noted to be stored within the contractor compound area to the south of the long stay car park; and c. Mobile plant was present directly south of the long stay car park, undertaking some earthworks filling.
19 October 2016	Existing Airport Land	a. Five separate locations along the proposed DART alignment were visited: Airport Fire station, an area to the north east of the Airport runway, mid-stay car park, short- stay car park and the area of the proposed DART Parkway station in Stirling Place (North of Luton Airport Parkway Railway station). Access to the whole of the existing airport area was not possible because of airport restrictions; b. Chemical storage tanks were noted adjacent to the fire station present on the airport site; c. The boundary of the airport is secured with a chain link fence, the hard-standing present and grassed areas were in good condition; d. The area to the north east of the airport runway and the embankment above New Airport Way was visited. Various items of waste were noted on the surface of the embankment, including plastic and metal fragments. These were also noted in the areas of animal borrows, suggesting that poor quality material may have been used in the construction of the embankment; e. The airport runway is built up approximately 5m above the rest of the site; and f. A sweet phenolic odour was noted, possibly emanating from industrial buildings to the north west.
9 November 2016	LLAOL Contractor's Compound	a. Significant amount of earth was noted to be stockpiled in the LLAOL contractor compound adjacent to the former landfill site. This was noted to have increased significantly from the previous visit on 25 October 2015. Lorries were noted to be bringing further material into the compound area. The material appeared to be originating from the area of Terminal 1 improvements at the airport;

Date	Area	Key Observations
		b. LLAOL contractor compound was visited, the stockpiled earth was noted to be close to the former landfill boundary but not encroaching on to it. Visual inspection of the material did not indicate any visual or olfactory evidence of contamination; c. Within LLAOL compound area, plant associated with asphalt production was noted. Contractor personnel on-site during the visit advised that this has been present for a significant amount of time and was no longer in use; d. Various other stockpiles of soil and items associated with the airport were noted within the compound area; and e. Looking east from the contractor compound is the fire training area. This contains airplane fuselages and tanks (contents unknown).

Date	Area	Key Observations
19 June 2019	C – Land East of Winch Hill Lane	a. The area is predominately arable farmland planted with wheat crop. The landing lights for the airport and two disused agricultural sheds are also present; b. Topography is undulating; and c. Two overhead electricity cables are present within the area, one in the north between Winch Hill Lane to Darley Road, and another running along Winch Hill Lane, from Winch Hill Farm to Winch Hill House.
	D – Off-site Car Park North	a. The area is presently used as trailer park and coach parking on an earthworks platform covering the south eastern and central areas, Vauxhall fleet management facilities located along the western boundary; b. A Vauxhall Car Showroom and workshop is located at the northern site boundary.; c. Hardstanding is present widely across the site, with landscaping on boundaries and embankment slopes. d. A substation is located adjacent to the car showroom; and e. Various types of fencing are present on the site boundaries, generally in good condition.
	E – Off-site Car Park South	a. Area comprises hardstanding (concrete/asphalt in average/poor condition) across 4 levels. With a central access road bisecting each level. Platforms are retained by brick walls and embanked earth. b. Site is currently operated by contractors working on the MPT, as overflow car parking and construction material storage. Cabins are present in the northwest. c. Site is bounded by metal paling fence and concrete post and chain-link fencing. d. Small stockpiles of Made Ground are present at the boundary of the site.

5.4 Site history

5.4.1 Four Groundsure reports were obtained which have been used as sources of historical mapping for the site (**Appendix B**), the maps date from 1879 to 2020. A detailed review of the observations from the historical maps is provided in **Appendix E** and excerpts of historical maps illustrating the main developments on the Main Application Site in **Figures 7a 7b, 7c, and 7d** and **Figures 8a, 8b, 8c and 8d** which cover Areas D and E.

5.4.2 In addition, as part of Arup's previous reports (Ref. 48) (Ref. 51) a number of historical photographs were obtained from Historic England which cover Areas A and B. The review and interpretation of images and aerial photographs undertaken is provided in **Appendix F** , this focusses on the landfilling activities in Area A, but also shows the development of the Percival Works on the Existing Airport Land.

5.4.3 It should be noted that mapping for the period of WWII may be absent or incomplete particularly given the significance of the role that Vauxhall Motor Works and the airport played during the war. Therefore, mapping records may not reflect all historical development which has taken place.

5.4.4 A summary of the key changes across the site area is provided below in

Table 5.3 further detailed analysis is presented in **Appendix E**. The location of the potentially contaminative uses both historical and current are identified on **Figure 9**. The significance of these are discussed further in **Section 8**.

Table 5.3: Site development summary

Area	Summary
Main Application Site	
Existing Airport Land	a. The earliest mapping (1879) shows the site was largely agricultural and woodland with Eaton Green Farm present in the northwest of the site. b. By 1899-1900 Spittlesea Hospital for Infectious Diseases is present in the west of the site. c. On the edition from 1938 a collection of buildings is recorded toward the northern boundary, likely to be the Percival Works which are noted on aerial photography from this time (**Appendix E)**. Records indicate that the Percival Works was established in 1933 and is likely not to be shown on maps for military/security reasons, it is understood to have closed in mid 1960s, aerial photography from 1973 show former works buildings to have been cleared in the northwest of the site, this is shown on the OS mapping from 1985. d. Airport was first noted on the maps dating from 1960, although the infrastructure; terminal, runways and taxiways were not shown. However, it is known to have been open and operational during World War II and is likely to not be shown on maps for military/security reasons. Mapping for the eastern extent of the site still shows agricultural land. The development includes buildings labelled as "works" with smaller buildings placed within bunded areas e. By 1960 land to west of Spittlesea Hospital along the boundary was noted as worked ground likely due to earthworks related to Vauxhall Works building which had been constructed at this time approximately 100m west. f. The 1971 edition shows Luton Airport and runway, a series of units, possibly hangars are indicated across the north western area and a building with large tanks toward the central western area, possibly fuel storage area. The Spittlesea Hospital area had been redeveloped, the worked ground west of the hospital had been developed with a series of small buildings and bunded areas noted as a works, possibly sewage works.

Area	Summary
	g. By 1993 the airport is indicated to have expanded with additional taxiways. h. An area in the northwest formerly occupied by the Percival works was redeveloped with new industrial units by 1991. i. Between 2002 and 2020 T1 building was extended to its current form with two piers to the east of the building and additional aprons and taxiways. Further activities associated with the airport such as hotels and new works buildings occurred in the southwest of the site during this time. j. Recent developments at the existing airport (2016-2019) have included enhancements to Terminal 1 and addition of a new taxiway and aircraft stands to the east of the terminal. This included Taxiway Foxtrot which required excavation of a small area of landfill in the northeast corner of the taxiway, the verification report for remediation works in this area (Ref. 64) indicates that capping materials from the landfill were excavated and reused within the project, after verification of its chemical quality and a small volume of landfill waste was disposed off-site. All residual potential contaminant linkages were assessed as low risk.
LLAOL Contractor Compound	a. Historical mapping shows this area as agricultural land until 1960 when it is identified as airport land. Falconer's Hall is present in the northwest of the site from the earliest mapping (1879) until 1925; b. Aerial imagery shows features present (known to be soakaway ponds (Ref. 26) in the centre of the site in 1971, later labelled as tanks in 1993 mapping; c. In 1971, a drain is shown on mapping and in 1975 earthworks associated with the runway are shown; and d. 1972 aerial photographs show an area (known to be an Engine Run Up Bay) in the southwest corner of the site. Photographs also show the fire training ground present on the northern boundary of the site, adjacent to Areas A and B in 1990. This feature is never formalised on published mapping. e. Several soakaways are located in this area; central soakaway, north east storage pond and fire training ground storage pond.

Area	Summary
Airport Access Road	a. Earliest mapping (1879) shows the length of the site to comprise of agricultural land, Spittlesea Wood is located across the area toward the western end and a brick and tile works with associated clay pit, lime kiln and brick kiln is present just off the northern site boundary toward the centre of the proposed alignment; b. By 1900 Spittlesea Hospital (infectious diseases) is located at the western boundary at the western end of the proposed route, a sewage farm is opposite approximately 50m to the east. An old gravel pit is located at the eastern end adjacent Eaton Green Road. The brick and tile works is no longer shown; c. 1922-1925, a building belonging to Spittlesea Hospital has been built at the western end of the route, and off-site the sewage works has expanded to the north with a large number of filter beds located approximately 50m from the western site boundary; d. No significant development occurs until 1938 when Percival Aircraft Works is present across the central extent of the site. Further development of the Spittlesea Hospital has also occurred; e. By 1960 additional works buildings are recorded in the central area of the proposed route. An area of worked ground is shown in the western extent, likely associated with the construction of the large Vauxhall building on the former sewage works which has necessitated significant changes to the landform. A small area of rough ground is recorded at the eastern extent, on the Eaton Green Landfill; f. Spittlesea wood and hospital have been redeveloped with commercial industrial buildings by 1975, a works is noted at the western boundary at the western end of the proposed route, possibly a sewage works, many of the former Percival works buildings have been redeveloped. Further changes to the landform with a large embankment indicated along the western boundary with the Vauxhall works. A large engineering works is noted in the central area of the site. Eaton Green landfill has expanded and lies across the eastern extent of the site. The airport, terminal building and runway are noted to the southeast; g. 1985 to 1991, works buildings are redeveloped and additional units added to the western end of the site and a car park to the central area. The large engineering unit in the central area has been redeveloped with several smaller units and Presidents Way is now noted. The landfill is no longer recorded; and h. In 2001 the possibly sewage works at the western end of the site had been cleared and by 2010 the area redeveloped with a works unit.

Area	Summary
A – Former Landfill	a. The earliest available map (1879) indicates the site was predominately agricultural land; b. Whilst Ordnance Survey (OS) maps do not show the site in use as a landfill until 1960, aerial photography reviewed as part of Arup PRA (Ref. 48) suggests that some filling had already taken place by 1941 in the southwest of the site; c. During and after WWII the landfill appeared to be connected with the former Percival Works (aircraft manufacturing) located offsite to the west via a track; d. Expansion south from the original infilling had occurred by 1960 mapping. The 1969 aerial imagery indicated several vertical pipe structures in the line of the valley floor, potentially connected to a culvert in the base of the valley; e. Although not shown on the historical mapping, the aerial photography indicates a scrap yard present on the western boundary of the site from approximately 1969-1976 (current location of Tidy Tip); f. The mapped data and aerial imagery shows the majority of the site was landfilled by 1975, the filling continued until the early 1990s. The site was landscaped between 2000 and 2002 to resemble its current condition; and g. Long-stay car park was initially constructed in 2002 and has been extend over the landfill area to the south in 2009 and across the western area in 2013.
B – Land West of Winch Hill Lane	a. The earliest available map dated 1879, indicates this area was agricultural land divided into field blocks. Winch Hill Farm and associated buildings, were located in the east of the parcel either side of Winch Hill Lane; b. The woodland in the south of the area are the remains of Winch Hill Wood, which was reduced in size following construction of the airport as shown on the 1975 OS map along with earthworks associated with the runway off-site, to the south. This a designated ancient woodland; and c. The Wigmore Valley Park Community Centre, car park and playground had been developed in the northeastern area by 2002. The allotment gardens were also noted at this time.
C – Land East of Winch Hill Lane	The historical mapping indicates this area has been agricultural land from the earliest maps, with minor changes to field boundaries.
Off-site Car Parks	

Area	Summary
D – Off-site Car Park North	a. The south of the site was used as a rifle range from 1900 to 1962; b. 1924 mapping shows the site as partly used by the Vauxhall Motor Works from 1924; c. In 1947 it was shown as used for parking. d. The 1955 mapping shows a significant earthworks platform constructed. This was modified and extended in 1961 and reduced in size and reprofiled in 2002. e. Buildings are shown in the north of the site on 2010 mapping; and f. Adjacent site uses have included a rail line, roads, sewage farm and depots.
E – Off-site Car Park South	a. The site was not shown as developed until 1941 when earthwork mounds were shown on-site, although the purpose of these is unknown; b. Several structures are present on the 1947 mapping, with the earthwork platforms shown on 1960s mapping; and c. Adjacent site uses have included a rail line, sewage farm, allotments and roads.
Off-site Planting	
Off-site Planting	a. Earliest mapping (1880) shows Cockernhoe Brick and Tile Works 200m to the north of the most northerly hedgerows. The Brick and Tile Works are shown to be disused by 1901; b. There is limited coverage in 1924 and 1962 mapping however the Brick and Tile works are no longer present on 1970 mapping; and c. The remaining land uses are indicated to be agricultural and/or woodland until present day.
Off-site Highway Interventions	
Eaton Green Road/ Lalleford Road	Earliest mapping (1880) shows the site to comprise of a road surrounded by agricultural land. By the 1960s development has occurred within the surrounding area including the presence of Percival Aircraft Works which is located adjacent to the site.
Eaton Green Road/Frank Lester Way	Eaton Green Road is present on the earliest mapping (1879) Frank Lester Way was not developed until 1960, at which time works units belonging to Percival works were identified to either side. The roundabout was added in 2001.
Eaton Green Road/Wigmore Lane	Earliest available mapping (1879) indicates the site has always been carriageway. Off-site potential contaminative uses include the former Eaton Green Landfill at the southern site boundary from 1970 and light commercial buildings including a petrol station are shown to have been developed adjacent and to the north by 1980.
Eaton Green Roundabout	Earliest mapping (1880) indicates the site was agricultural land with Eaton Green Road at the south west boundary. The roundabout was constructed by 1985, no other potentially contaminative activities have occurred on site. The motor works

Area	Summary
	and a sewage farm (redeveloped with car parking by 1980s) were located within 250m to the south west and south respectively.
Wigmore Lane/Crawley Green Road	Earliest mapping (1880) shows the site comprises a crossroads between Wigmore Lane and Eaton Green Road, surrounded by fields. A small chalk pit is present in 1901 mapping and by 1960 mapping a small building has been constructed. 1970 mapping shows a small filter bed to have been constructed adjacent to the north west. By the 1980s the surrounding area has been developed into residential properties and the current roundabout had been constructed.
Crawley Green Road/Lalleford Road	Earliest mapping (1880) shows the site to comprise a road following the current Crawley Green Road through the northern area. The surrounding area consist of open fields. The road has been developed by the 1960s into a "T" junction between Crawley Green Road and Lalleford road with access to Fermor Road. Additional residential buildings are developed around the road in the 1970s and 1980s
Windmill Road / Kimpton Road	Earliest mapping (1879) shows the site to comprise of a road and underpass beneath a rail embankment which intersects the site in the east. 1970 mapping shows that the site has been raised slightly to accommodate a large Motor Vehicle Works to the west. By 2002, the most southern rail line has been dismantled and converted to a dedicated bus route. Numerous activities were recorded in the surrounding area including sewage works (east and west) , dyeing and bleaching works and brass and iron foundry (north), depot and abattoir and depot and laundry building (north). Vauxhall Motor Works (east) and unidentified works to the west.
Windmill Road / Manor Road / St Mary's Road / Crawley Green Road	By 1901 residential properties had been constructed within the site boundary. The south eastern extent of the site is shown to overlap a Dyeing and Bleaching Works. The 1920 mapping shows additional residential properties within the site boundary. By the 1960s some of the residential properties have been replaced by car parks and by the 1980s the existing roundabout is shown to have been constructed. Activities in the surrounding area include a boiler engineering works, rail lines, cemetery, brass and iron foundry, sewage works, dyeing and bleaching work, depot, laundry building, hat factory.
A1081/London Road (north)	Earliest mapping (1880) shows the site to consist of open fields with London Road and Kidney Wood forming the north eastern boundary. Limited development is shown to occur until the 1960s when a roundabout has been constructed within the northern extent of the site linking the A1091 and M1 link road through the centre of the site. 2015 aerial imagery shows the roundabout to have been reconfigured into the current road alignment.
A1081/London Road (south)	The site is indicated to be agricultural land on the earliest mapping (1879), London Road is approximately 100m to the east, Newlands Farm is at the south west boundary and a small chalk pit approximately 50m south. By 1960 the A1081 connection from M1 to London Road has been constructed approximately 180m north. The 2020 edition shows the A1081/London Road (south) junction to be constructed with link to A1081, previous alignment of London Road to west now local access road.
M1 J10	Earliest mapping (1879) shows the site to largely comprise of open fields. The southern area of the site extends into Pepperstock. A small unnamed road intersects the north western extent of the site. A graveyard is present 150m

Area	Summary
	northwest of the site in St Andrew's church yard. The M1 motorway and link road is shown to have been constructed by the 1960s. 2015 aerial imagery shows the M1 link road in the east to have been replaced by A1081 Airport Way.
Hitchin Junctions	
A602 Park Way/A505 Upper Tilehouse Street	Earliest mapping (1880) show the site to consist of a road junction lined with residential and commercial properties. Potentially contaminated land present within 50m to 100m of the site between 1880s and 2013 were an iron foundry, three garages all of which have been redeveloped, only residential developments have been present on-site. The 1990s mapping shows the road has been modified to its current alignment.
A505 Moormead Hill Offley Road/B655 Pirton Road/Upper Tilehouse Street	Earliest mapping (1880) shows the site to consist of Tilehouse Street and two unnamed roads. The site is lined with residential properties along the southern boundary and a timber yard along the northern boundary. The surrounding land use is largely open fields to the north, west and south with residential areas to the east. The 1920s mapping shows the timber yard to have been replaced by allotment gardens, which were later developed with residential properties in the 1960s. A garage was present adjacent the site to the east between 1960 and 2007, it was developed with residential properties in 2015.
B656 Hitchin Hill / A602 Park Way / Gosmore Road Roundabout	Earliest mapping (1879) shows the north eastern extent of the site to comprise of London Road and one other unnamed road which is bordered by allotment gardens. The remainder of the site comprises open fields. Clay pits and a Brick Field with kilns are present 130m to the north east. By the 1920s a single building is shown to have been constructed in the centre of the site. The 1960 mapping shows additional residential properties to have been developed throughout the site. London Road and Stevenage Road are shown to have been realigned and widened. The Brick Fields are shown to have been infilled and indicated as a recreation ground. The 1990 mapping shows the residential properties to have been demolished and the current roundabout to have been constructed linking London Road, Stevenage Road, Gosmore Road and Park Way.

5.5 Environmental setting

5.5.1 The environmental setting is important to understand as it determines the sensitivity of the site and potential sources of contamination. A summary of the environmental setting of the Proposed Development area is compiled below in **Table 5.4.** The information has been abstracted from Groundsure reports and publicly available registers listed in **Section 3.2.**

Table 5.4: Summary of the environmental setting of the development area

Environmental data set	Environmental feature	Details
Published Geology (**Figure 10** – Main Application Site,	Made Ground	Made Ground is known to be present or anticipated in all areas of the site apart from Off-site Planting and agricultural land in Areas B and C.

Environmental data set	Environmental feature	Details
Figure 11 – Off-site Highway Interventions)	Superficial	Head Deposits underlie the Existing Airport (LLAOL Contractor's Compound), Airport Access Road, Area B, Area C and Off-site Planting. Clay with Flints are recorded beneath the Existing Airport Land, Airport Access Road, Area B and Area C. Lowestoft Formation (Till) is recorded underlying Area B and Glaciofluvial deposits beneath the Off-site Highway Interventions -Hitchin Junctions. Note: superficial deposits are absent in Areas D and E – Off-site Car Parks.
	Bedrock	Lewes Nodular and Seaford Chalk formation are recorded across the Proposed Development. There are isolated bands of the Holywell Nodular and New Pit Chalk formation underlying the Lewes Nodular and Seaford Chalk Formation. In addition the following bedrock strata are also present at theses locations: Gault Formation – Mudstone underlies A602 Park Way junction. Lambeth Group (sand silt and clay) overlying the Chalk Group are recorded underlying the southwestern area of M1 Jcn10.
Mining and natural Cavities	Mining	The Proposed Development is not in an area affected by coal mining or shallow mining hazards. Non-coal mining areas are identified across the site for extraction of chalk In Area A one unspecified workings is recorded which relates to the former landfill area.
	Ground workings	Area A – the whole of Area A is identified as the location of a refuse heap. Area B – A small unspecified quarry is recorded in the centre of this area. Airport Access Road – former landfill (Area A) is located within the eastern extent of the proposed road. Off-site Highway Interventions:

Environmental data set	Environmental feature	Details
		Eaton Green Road/Wigmore Lane – Former landfill is present adjacent to the south east. Made Ground (undivided) is noted across the area. Windmill Road junction - Made Ground (undivided) recorded within the eastern area. A602 Park Way at Hitchin - Infilled ground noted 60m northeast coinciding with Fynesford Court Landfill.
	Natural cavities	Fifteen solution pipes are located 100m north of Area A and three solution pipes in the north eastern part of Area D – Off-Site Car Park North.
Radon	-	The site is not within a radon affected area (less than 1% above action level), and therefore radon protection measures are not required.

Environmental data set	Environmental feature	Details
Hydrogeology (**Figure 12)**	Aquifer designation[1]	Chalk groups (Lewes Nodular, Seaford, Holywell Nodular and New Pit Chalk formations) are all Principal Aquifers. Glaciofluvial Deposits and Lambeth Group are Secondary A aquifers. Lambeth Group – Secondary A aquifer. Head Deposits and Till are Secondary undifferentiated. Clay with Flints and Gault Formation are not designated as aquifers. The Existing Airport lies within the Lea groundwater catchment (as defined by the Environment Agency). The south east area of the airport, Areas A, B, C and Off-site Planting areas, east of the groundwater divide, are within the Mimram groundwater catchment. Further detail on the hydrogeological conditions are described in **Section 7**.
	Source Protection Zones (SPZ)	The following areas of the site are within an SPZ3; the Existing Airport Land (northern and western areas), Airport Access Road, Areas A and B (northern part) and Area C. Areas D and E are not located within an SPZ. The Highways Interventions are all SPZ3 apart from; Windmill Road -SPZ 1 and A1081 London Road (north and south) and M1 JCN 10 which are not within an SPZ.
	Groundwater	The regional groundwater flow direction is anticipated to be south easterly, however, the nearest potable water supply at Kings Walden (approximately 3 km north east of the landfill) appears to be influencing a more easterly flow direction (east north east). A flow divide is located to the south and west of the landfill site (Area A) beyond which groundwater flows in a south westerly direction beneath the Existing Airport toward the River Lea. The maximum groundwater levels are estimated to range from 134m AOD in the centre of the divide to 112m AOD in the dry valleys to the east. (Ref. 50)

Environmental data set	Environmental feature	Details
Hydrology **(Figure 12 and Figure 13)**		There are no watercourses within the Main Application Site. In the wider Proposed Development the River Lea flows in culvert beneath an Off-site Highway Intervention area; (Windmill Road) in a southerly direction, it is also within 80m of Windmill Rd/Kimpton Road in culvert and approximately 200m south west of Area E – Off-site Car Park South. Other surface water features on-site include: Area A – Thames Water Compound storage pond and Thames Valley Drain (TVD) which takes overflow from the Thames Water Compound storage pond. The discharge point is unknown. Area B – Eastern Soakaway Existing Airport (LLAOL contractor's compound) – central soakaway (comprising 2 ponds), north east storage pond, fire training ground storage pond. Existing Airport Land - northern soakaway (at Eaton Green Road boundary) and south east soakaway (south of runway) Surface water features off-site: A small filter bed adjacent to the north west boundary of Wigmore Lane/Crawley Road Off-site Highway Intervention and an unnamed drain 50m north of A1081 (north), along London Road.

Environmental data set	Environmental feature	Details
Flooding[2]		Very low risk of flooding across all site areas (less than 0.1%) from rivers or the sea. Generally, a very low risk from surface water flooding is noted across the Proposed Development area, however this increases to medium to high along topographical low points in the valley bottoms in the eastern area of the site and also Area E which is at a topographical low point. Areas of surface water flooding are also associated with the north and east aprons on the Existing Airport.
Abstraction **(Figure 12)**	Groundwater	Two active abstraction licences are recorded within 2km of the main area of Proposed Development; 1.5km west for general use relating to secondary category (medium loss) operated by IBC Limited, and 1.5km north east, a potable water supply operated by Affinity Water Limited. A search was undertaken with Local Authorities for private water abstractions within the 2km buffer (see **Appendix B** for copies of correspondence), a further four abstractions were identified: a. 1.85km south west (for commercial and domestic purposes); b. 1.7km south (potable water supply operated by Affinity Water); c. 1.9km north east, private water supply; and d. 1.5km southeast, private water supply.
	Surface water	No abstractions within 2km of the Main Application Site.
Environmental permits	Licensed industrial activities	Three environmental permits are recorded to the Main Application Site: Part A(1), London Luton Airport medium combustion plant , Part A(2)/B; GKN Aerospace: Coating Process (Part B) and Airline Services: Dry Cleaning (Part B). Three environmental permits are recorded off-site from the Main Application Site; 91m west Kez's Dry Cleaners (Part B), 132m north west Shell Luton Airport: Unloading of

Environmental data set	Environmental feature	Details
		petrol into storage at service stations and 140m north at Asda: Unloading of petrol into storage at service stations.
	Dangerous or hazardous sites	None within Areas A to E, Off-site Highway Interventions or Off-site Planting. Two are recorded to the Existing Airport Land; a Control of Major Accident Hazards (COMAH) lower tier site licenced to Shell UK Oil Products Ltd for storage of Jet A-1 fuel within 4 storage tanks and a Regulated Explosive Site, GKN Aerospace Transparency Systems (King's Norton) – licensed under Manufacture and Storage of Explosives Regulations 2005 (MSER).
	Discharge consents	Twelve discharge consents to groundwater have been identified within the study area, for a variety of purposes including domestic properties, the existing London Luton Airport (soakaways) and commercial activities.
Waste Disposal	Historical	Landfills on-site: Eaton Green landfill (Area A) operated by Luton County Borough Council[3] 1937- 1978. The landfill is no longer under a permit. Aerial photography and historical mapping suggest it was in use until the early 1990s. Waste types include: inert, industrial, commercial, household and liquid sludge. A detailed review of the records pertaining to the landfill was undertaken previously for the proposed Century Park development in 2017 (Ref. 48). This indicated the landfill does not appear to be as extensive as the recorded Environment Agency boundary. The extent of the former landfill is shown on **Figure 9** Landfills off-site include: Wandon End Farm (400m north of Area A), operational between 5 August 1991 and 31 January 1993, accepting inert waste. Fynesford Court (near to Hitchin junctions, closest is A602/Stevenage Road 130m southeast), brick and clay pit, redeveloped as a recreation ground in the 1960s and part of the area was developed as a community care centre by the 1990s.

Environmental data set	Environmental feature	Details
	Current	On-site: Existing Airport Land – 'Eaton green road tip' (Tidy Tip) and recycling centre a local authority refuse and recycling facility, permitted under Environmental Permitting Regulations (England and Wales) Regulations 2016 (Ref. 65). Off-site: A landfill is recorded 31m west of the Main Application Site, Vauxhall Airport Way (Kimpton Lane).
Pollution Incidents	-	None recorded within the Main Application Site which caused an *impact*, and no significant incidents recorded in the study area within the last 5 years to land or water.
Ecology/ Environment	Nitrate vulnerable zones (NVZ)	The site is within a NVZ as designated by DEFRA.
	Designations	On-site: Area A - County Wildlife Site (CWS) is located within the south east area of WVP. Area B – an ancient and semi-natural woodland designation in the south east. Within 2 km of the site: Off-site Planting – ancient replanted woodland – 500m east. No further ecological or geological designations have been identified.
Unexploded Ordnance (UXO)	-	Various UXO reports have been obtained for preliminary studies of the Proposed Development the overall risk is summarised below: Existing Airport, LLAOL Contractor's Compound and Area A - Very High. However, it should be noted that where works are to be undertaken within post war fill material/Made Ground this is considered Low Risk. The Airport Access Road – Low to Medium risk Area B – Low Risk Area C – not covered, by existing reports but likely to be Low Risk Areas D and E – Low to Moderate risk

Environmental data set	Environmental feature	Details
		Off-site Planting – Low risk Off-Site Highways Interventions – all Low to Moderate or Moderate Risk except for Hitchin junctions which are all Low Risk

Notes:

[1] Definition of aquifer designations:

a. Principal aquifers - these are the most important aquifers. They are layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale.

b. 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.

c. Secondary B - 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.

d. Secondary Undifferentiated - where it has not been possible to attribute either category A or B to a rock type.

[2] UK Government website – Long term flood risk information (accessed 12/2020)

[3]Luton County Borough Council was abolished in 1974 and succeeded by LBC and CBC who are unitary authorities

5.6 Regulatory consultation

5.6.1 A number of regulatory bodies and other relevant organisations have been contacted (Ref. 48) (Ref. 51) . The purpose was to obtain records of the former Eaton Green Landfill (Area A). Enquiries were also made regarding private water supplies with Local Authorities whose areas fall within the 2km buffer. A summary of their written responses is provided in **Table 5.5** and copies of correspondence in **Appendix B**.

Table 5.5: Summary of written responses obtained from enquiries with Regulators and other organisations regarding former Eaton Green Landfill

Organisation	Records Obtained	Details
Environmental Health Department at Luton Borough Council	×	Informed by Alan Burke (EHO) that Council no longer have any records relating to the landfill. At one-point gas monitoring was undertaken but records have since been lost.
Strategic Waste Manager at Luton Borough Council	×	No records available, advised to contact Central Bedfordshire Council who may hold records.
Former worker at Eaton Green Landfill	✓	Anecdotal evidence of the types of material placed, period of placement and site controls in place including cover materials. Copy of interview provided in **Appendix B.**
Planning Department at Luton Borough Council	✓	Copies of selected site investigation reports provided through planning portal and hard copies reviewed at Luton Borough Council's offices. A review of these reports is provided in

		Appendix E. Advised that records over 10 years were no longer held by the Council.
Environmental Health Department at Central Bedfordshire Council	✗	No records available.
Environment Agency	✓	Information was provided in response to enquiry, which included the following: a. The site closed in 1978; b. The Environment Agency hold no information on gas/groundwater monitoring or gas control measures. However, their records indicate gas control measures were put in place; c. A map of the depth to groundwater; d. The Environment Agency hold no records of enforcement action on the landfill site; e. Nearby groundwater abstraction records; and f. A summary of information on groundwater investigations undertaken within 1km of Luton Airport. In addition, a copy of the Atkins Report on Vale of St. Albans Groundwater Model was obtained from the Environment Agency. Comments were also provided on a draft version of an Arup report for the New Century Park Development (copy of comments is provided in **Appendix B**). The EA advised that the site was receiving waste while the Luton Laporte chemical works were operational and the destination of the waste arising from the chemical works is not fully documented, as such there was a concern that the site may have received waste arisings from that location
Historic England	✓	Historical aerial photographs obtained (see **Appendix D**)
Bedfordshire Archives and Records Service	✓	Archivist search of records requested. No site investigation reports held but some meeting notes and letters which make reference to the site (copies in **Appendix B**). Limited relevant information located but the report of the County Surveyor dated 1978 indicates that there was unlikely to be any segregation or sorting of waste materials, practice at the tip was that there was an area where members of the public disposed of their waste which was then bulldozed into the tip.
KBR	✗	This company was formerly Haliburton Environmental UK. The company was contacted by email and telephone as a site investigation report by Haliburton was produced in the 1990s on the former landfill site, no response received. A copy was unable to be located from other sources.

LBC	✓	Contact via email. Private water supply search was completed and confirmed there are no private water supplies in Luton.
NHBC	✓	The council was contacted via email and telephone. All private water supply records were provided for NHBC Local Authority area, with grid references, no further data available.
CBC	✓	Contact was made via email. Private water supply records were supplied which are located within the 2km search buffer around the Main Application Site. Data supplied included grid reference, detail of operator and abstraction rate and water quality, where available.

5.7 Review of previous reports

5.7.1 A number of previous investigations have been undertaken in the vicinity of the airport. The main findings of the reports are summarised in

Table 5.6. These reports have been reviewed in detail in **Appendix G.** The previous investigation locations are shown in **Figure 14**.

Table 5.6: Review of key previous reports

Report Title	Date	Location	Summary of scope/findings
Burks Green. Foundation work risk assessment report	2004	Area A- Northwestern edge of the former landfill	This report provides a foundation risk assessment for Hangar 202, apron and taxiway on the northwestern edge of the former landfill. The ground investigation (GI) confirmed the presence of up to approximately 10m of commercial, domestic and construction waste within the landfill below the Hangar 202 site. Elevated levels of methane and carbon dioxide were recorded, requiring a methane gas barrier and a passive ventilation system to be included in the design. The proposed foundation solutions recommended included: precast concrete piles driven into the chalk, stone columns to the depth of landfill and dynamic compaction.
Casella Stanger. Review of Environmental Reports LLA 202, Apron & Taxiway Link. Report No:C03607	April 2004	Area A - Northwestern edge of the former landfill	This report included findings from previous reports in order to inform the future development plans for Hangar 201. Previous investigations reported the presence of Clay with Flints below the base of the landfill. Waste thicknesses found were up to 13.5m with a capping layer of 1m – 3m identified on top of the waste. Elevated concentrations of methane and carbon dioxide were noted with gas protection measures advised for Hangar 201. Elevated soil concentrations of cyanide and total polyaromatic hydrocarbons (PAHs) were recorded at depth within the fill

Report Title	Date	Location	Summary of scope/findings
			material. Groundwater samples showed exceedances of dissolved hydrocarbon. High levels of iron, manganese and total petroleum hydrocarbon (TPH) noted within the groundwater were attributed to borehole construction materials and spillages into the drainage system.
WSP Environmental Limited. Phase 1 Environmental Assessment (Project Odyssey) London Luton Airport. Project Number 12220076/001	April 2006	Existing Airport and Area A - Long stay car park -western edge of the former landfill.	A Phase 1 Environmental Site Investigation on the existing airport undertaken by WSP for 'Project Odyssey'. This included an extension to Car Park E which is the long stay car park, situated on the western edge of the former landfill. GI in the western edge of the former landfill indicated the waste extends to 21m below ground level (bgl). Elevated concentrations of lead were recorded within soil samples. Contaminants in the groundwater comprised phenols, nitrate, chloride, sulphate and mineral oils. This report suggested that the groundwater in the bedrock was being impacted by the landfill but the presence of Clay with Flints had prevented metals from leaching from the landfill.
AECOM Phase 1 Geotechnical and Geo-Environmental Desk Study Report	May 2012	Area A-Northwestern part of landfill, north of long stay car park	Desk Study focussing on a development comprising a cargo hangar and a fixed base operation (FBO) area, the document reviews various sources of material. The report reviewed previous investigations undertaken at Luton airport and its surrounds, including reports on the former landfill. The southeast corner of the cargo hangar lies partially within the extent of the former landfill.
AECOM. Geotechnical and Geo-environmental interpretative report	Sept 2012	Area A-Northwestern part of landfill, north of long stay car park	AECOM reviewed two sites within the airport, comprising of a cargo hangar and a FBO. The southeastern corner of the cargo hangar lies within the boundary of the former landfill. Up to 3.35m of Made Ground was encountered at the cargo hangar site, no mention is made of landfill waste being encountered. A possible dissolution feature was noted within the chalk. Localised asbestos was encountered within the Made Ground.
Delta Simmons Environmental Consultants Limited. Preliminary Site Investigation for	Aug 2012	Area A-Southwestern part of former landfill	A preliminary site investigation was undertaken within the extent of the former landfill for Taxiway Foxtrot. The investigation found waste to be predominantly well decomposed, with some parts of the landfill waste comprising more granular

Report Title	Date	Location	Summary of scope/findings
proposed Taxiway Foxtrot			materials suggesting construction & demolition rather than household waste in those areas. Occasional visual/olfactory evidence of hydrocarbon contamination was encountered. No groundwater or leachate was encountered during the investigation; however, the landfill waste was described as damp/moist in some locations. The report also identifies two stands of Japanese knotweed totalling an area of around 30-40m^2
Ivy House Materials Management & Remediation Verification Report. Signature FBO, Luton Airport	Dec 2013	Area A- Northwestern part of landfill, north of long stay car park	The report details the remediation activities to develop a new FBO within the boundary of the former landfill. It details segregation of materials dependant on material waste category. Subsequent verification was undertaken to ensure no significant risk to controlled waters or human health remained.
Mott MacDonald, London Luton Airport Operations Ltd, Phase 1 Geotechnical and Geoenvironmental Desk Study	Jan 2014	Existing Airport / Area A/ LLAOL Contractor's Compound	Preliminary risk assessment for proposed airport extensions to terminal buildings, extensions to existing mid and long term car parks, new taxiway (foxtrot) , extension to existing taxiway (alpha) and aprons and new multi-storey car park linked to the terminal building. The report includes a summary of ground conditions, current and historical land uses, environmental setting of the site and review of previous site investigations and historical mapping. It was recorded that the fire-training ground had been subject to remediation works in 2003 to address petroleum hydrocarbon and PFOS contamination. Potential sources of contamination identified included: LLAOL Contractor's Compound; fuel tanks and cement and asphalt works, an electrical substation and fuel tank to the south of the fire training ground and a fuel tank and fire-fighting foam containers in the fire training ground. Existing Airport Land: numerous de-icing tanks, fuel farm, industrial commercial activities, historical sewage works. Moderate risks were identified to River Lea/Luton Hoo Lakes and Principal chalk aquifer, with low risks to human health receptors. Risks could be adequately mitigated through design and construction techniques and remediation. GIs were recommended to support the planning

Report Title	Date	Location	Summary of scope/findings
			application and update data gained from previous GIs.
Pell Frischmann, Luton Airport Perimeter, Preliminary Sources Study Report (PSSR)	2016	Aiport Access Road	Pell Frischmann undertook a PSSR for the proposed Airport Access Road a 3km long section of dual carriageway to connect New Airport Way with the Enterprise Zone, running along a similar alignment to the existing routes of Percival Way and President Way. The report summarises the geology, geomorphology, hydrological and geoenvironmental aspects of the site as well as the historical development of the area. A conceptual site model (CSM) was developed which identified several pollutant linkages associated with a moderate or moderate to high risk and recommended GI be completed.
Mott MacDonald Contamination Risk Assessment Report	March 2017	Area A- London Luton Airport land	Mott Macdonald undertook a contamination risk assessment for the area of the Terminal 1 expansion works, this included LLAOL Contractor's Compound. The report summarised the findings of an earlier desk study (Ref 39). A GI was completed, and the results assessed and interpreted. The report identified minimal contamination of the materials for excavation, comprising cohesive Made Ground materials derived from the underlying Clay with Flints Formation, and concluded there were no significant contamination risks to human health or controlled waters associated with the material when compared to contemporaneous assessment criteria. The reports were considered sufficient for the discharge of the relevant condition by the Local Planning Authority.
Arup. Luton Airport Mass Passenger Transit System. Land Contamination Preliminary Risk Assessment	January 2017	Adjacent to Areas D and E, Existing Airport Land	This report is a desk-based assessment of the contamination risks associated with the route of the Mass Passenger Transit (MPT) System (DART) which runs from Luton Parkway Station to Terminal 1 at the airport. A CSM was produced identifying potential contaminant linkages (PCLs) which may pose a risk to future development, including risks from ground gases/vapours and risks to the underlying Chalk Aquifer. Potential geotechnical constraints/risks to the development were identified. A comprehensive GI was recommended to determine the geoenvironmental and geotechnical risks and inform the design of the development.

Report Title	Date	Location	Summary of scope/findings
Structural Soils. London Luton Airport MPT Ground Investigation Phase 1: Factual Report on Ground Investigation.	2017	Adjacent to Areas D and E, Existing Airport Land	This is a factual GI report undertaken along the proposed MPT route. This was a preliminary GI based on the findings of the PRA (2017) (Ref. 52) and consisted of 16 cable percussion boreholes, 7 of which were extended by rotary drilling, 1 rotary cored borehole, 8 trial pits, 1 hand dug pit and 3 hand dug trial trenches. The GI recorded Made Ground of variable composition along the route, with the thick deposits encountered near to Luton Parkway Station up to 7.5m. Clay with Flint deposits were absent in the area of Parkway Station, where the Made Ground is directly underlain by the Chalk bedrock. However, in the area of the existing airport Clay-with-Flint deposits overly the Chalk and are present up to 8m in thickness.
Arup. Luton Airport Mass Passenger Transit System. Land Contamination Quantitative Risk Assessment.	June 2017	Adjacent to Areas D and E, Existing Airport Land	The aim of this report was to build on the findings of the Preliminary Risk Assessment (PRA) to inform the MPT development. It presents a quantitative contamination risk assessment relating to human health, ground gas and groundwater, as well as characterisation of the waste and analysis of leachate, soil and groundwater quality. The following was noted: a. There were no exceedances in the soil or groundwater when compared to the relevant human health generic assessment criteria (GACs). Therefore, no remediation was required at the site with respect to human health. No asbestos fibres were detected in the soil samples submitted to the laboratory for testing. b. Assessment of the ground gas results indicated a low risk according to CIRIA C665 (Ref. 66). The worst case measurement resulted in a classification of characteristic situation (CS1) conditions, very low risk. However, it was a recommendation that consideration was given to possible preferential pathways associated with the former Eaton Green landfill 90m east of the existing airport.

Report Title	Date	Location	Summary of scope/findings
			c. Concentrations of several contaminants in soils and groundwater exceeded the generic controlled waters criteria. Therefore, further assessment of these contaminants was required by undertaking a detailed quantitative risk assessment (DQRA). The controlled waters DQRA was undertaken using the Environment Agency remedial targets worksheet. Overall the quantitative risk assessment indicated the identified PCLs were low risk and no remediation was required at the site with respect to contamination.
Arup. Century Park Development Airport Way, Contamination Preliminary Risk Assessment – Former Eaton Green Landfill	June 2017	Area A - former Eaton Green Landfill	The report was a desk-based assessment of the risks associated with the Century Park development of the area occupied by the former Eaton Green landfill based on available historical information and a site walkover. A CSM was produced identifying PCLs which may pose a risk to future development, including risks from ground gases/vapours and risks to the underlying Chalk Aquifer. Potential geotechnical constraints/risks to the development were also identified. A comprehensive GI was recommended to determine the geoenvironmental and geotechnical risks and inform the design of the development.
Structural Soils Limited. Century Park, Factual Report on Ground Investigation	June 2017	Areas A, B and south eastern area of Existing Airport excluding landfill	This is a factual GI report undertaken on the land situated east of the former landfill (within Area B), to inform the Century Park development. This was a preliminary site investigation based on the findings of the Arup PRA (2017). The GI encountered Made Ground in LLAOL Contractor's Compound, south of the former landfill up to 6m in thickness. Across the wider Century Park development, the investigation found Clay with Flints with varying thickness between 0.3m and 8.2m overlying chalk to completion of the holes, the Clay with Flints was absent in the base of the dry valley.
Structural Soils Limited. Century Park Access Road, Factual Report on Ground Investigation	June 2017	Section of Airport Access Road located in Areas A, B and	This is a factual GI report undertaken for the Airport Access Road by Structural Soils for Pell Frischmann in 2016. Locations were located along the proposed road alignment which crosses the north of the former landfill, and

Report Title	Date	Location	Summary of scope/findings
		Existing Airport Land -	through WVP core area in Areas A and B. No formal human health or groundwater risk assessment was completed on the findings, for the section of proposed road off the former landfill.
Structural Soils Limited. Landfill Factual Report on Ground Investigation	June 2017	Area A- Former Eaton Green Landfill	This is a factual GI report undertaken on the landfill to inform the Century Park development. This was a preliminary GI based on the findings of the PRA (2017) (Ref. 49) The GI recorded landfilled wastes up to 20m thickness over the landfilled area. This was underlain by Clay with Flints (sides of valley only), generally 3m but up to 15m in places. Structureless Chalk was noted beneath the superficial deposits, wastes were placed directly onto the chalk at the base of the landfill. No evidence of a basal 'liner' layer to the landfill was noted.
Arup. Century Park Development Airport Way – Landfill Area, Contamination Quantitative Risk Assessment	Sept 2017	Area A- Former Eaton Green Landfill	The aim of this report was to build on the findings of the Preliminary Risk Assessment (PRA) to inform the Century Park development. It presents a quantitative contamination risk assessment relating to human health, ground gas and groundwater, as well as characterisation of the waste and analysis of leachate, soil and groundwater quality. The following was noted: a. Testing did not suggest a significant variation in chemistry between the different eras of filling; b. Significant depth of 'cover' material noted but no engineered cap; c. Perched waters were not found; groundwater levels were below the base of the landfill; d. Leachate analysis results suggest the waste has aged to a low gassing and leachate potential state; e. Methane and carbon dioxide concentrations were higher in the northern part of the landfill, with low levels of methane (<0.1 v/v) detected outside the landfill boundary; f. Asbestos was identified at three borehole locations, but fibres were below the limit of detection <0.001%;

Report Title	Date	Location	Summary of scope/findings
			g. The results indicated the chemistry of the landfill presents a low risk to future site users assuming a clean cover system to remove potential pathways and protect the development from odours and the poor physical properties of the waste; h. Detailed groundwater analysis and modelling was undertaken, concluding that overall there is little evidence that the landfill is causing significant contamination of the groundwater; i. Providing appropriate techniques are used during construction to prevent downward migration of contaminants, it is unlikely that the new development will result in significant contamination of the groundwater; and j. Recommendations were made for further GI of the landfill area, including groundwater and gas monitoring to confirm the findings of the assessment and refine the CSM.
AECOM. Luton Hangar 24 Ground Investigation. Factual Ground Investigation Report	Feb 2018	Area A and Existing Airport Land- Area of Tidy Tip and TUI car park, northwestern corner of the former landfill	This is a factual GI report undertaken to inform the construction of a new maintenance facility comprising garage space, offices and workshops. Further investigation was undertaken south of the site to inform on the design for a new entry roadway into the Eaton Green Civic Amenity Site 'Tidy Tip'.
Arup. Hangar 24 Ground Investigation Interpretative Report	July 2018	Area A and Existing Airport Land - Area of Tidy Tip and TUI car park, northwestern corner of the former landfill	The interpretative report was based on the Aecom (2018) GI. The report concluded there is no evidence that the area currently occupied by the TUI car park was ever part of the former landfill. The GI found limited thickness of Made Ground beneath the majority of the car park and what was found was typical of the formation of a hardstanding. Historical maps and other records suggest the Tidy Tip site was a 'scrapyard' within the landfill area and that the bunds that form part of the Hangar 24 site were formed when the scrapyard was cleared and levelled to form the tip site. Slightly elevated ground gases at concentrations equivalent to CS2 (low risk) were encountered. Based on the proposed development no remediation of the site was considered to be required with respect to human health or controlled waters.

Report Title	Date	Location	Summary of scope/findings
Arup. London Luton Airport Expansion Ground Investigation Strategy.	March 2018	Area A- former Eaton Green Landfill	This report sets out the strategy for further GI of the landfill. The GI strategy was based on the findings of the Arup (2017) DQRA report for the New Century Park development. The report set out the requirements for investigation of the potential pollutant linkages (PCLs) identified in the DQRA.
GL Hearn, Environmental Statement (Volume 1: Non-Technical Summary) New Century Park Luton and Volume 2: Environmental Statement – Addendum, Land Adjacent to Luton Airport: New Century Park	2018	Airport Access Road	The Environmental Statement (ES) reports the findings of the Environmental Impact Assessment (EIA) undertaken to identify the likely significant effects arising from the New Century Park development. The ES Soils and geology chapter covers the ground conditions and contamination along the route. The Area located on the former landfill was based on the Arup (2017) Century Park DQRA described above, areas of localised contamination were identified at locations off the landfill, notable findings were: a. Localised asbestos contamination within the Made Ground; and b. Substantial Made Ground deposits encountered in the vicinity of Airport Way The ES concluded following suitable mitigation there were no significant effects.

Report Title	Date	Location	Summary of scope/findings
Geotechnics Century Park Access Road Additional Works. Factual Report.	Aug 2018	Airport Access Road	This is a factual GI report undertaken to supplement information along the proposed Airport Access Road undertaken by Geotechnics Ltd for Opus International Consultants in August 2018. Exploratory locations were advanced in two distinct areas between the A505 Airport Way and Proctor Way and also at the junction of Eaton Green Road and the access road to the Tidy Tip. The presence of hydrocarbon odours, discolouration and the presence of membranes and geotextiles were observed across areas of the scheme.
AECOM. Luton Airport Landfill Main Ground Investigation – Factual Report	April 2019	Area A- Landfill area	This is a factual GI report undertaken to inform the works associated with the expansion of the airport based on the Arup (2018) GI Strategy. Investigation locations were more closely spaced since this was a main GI, with some off-site locations included to assess off-site conditions. Preliminary findings, where relevant, have been included in this report. Comprehensive interpretation of this GI is presented in the generic quantitative risk assessment (GQRA) (Ref. 67) and DQRAs (Ref. 68) (Ref. 69).

5.8 Additional relevant surveys

CCTV survey

5.8.1 A CCTV survey was completed in January 2018, which has identified the manhole covers in the north of Area A provide access to a Thames Water storm relief sewer. This is an overflow to the Thames Water balancing pond located at the northern site boundary.

5.8.2 This feature is aligned northwest to southeast across Area A, see **Figure 13**. The outfall point of the drain has not been proven, access could not be gained to the terminal manholes. The part of the pipe surveyed within Area A was laid between 15.9m bgl (at its northern extent) and 21.77m bgl (at the most southerly surveyed point). The drain is 750mm in diameter and was dry at the time of surveying. The condition of the drain worsens to the south, with evidence of cracks, fractures and encrustation.

Ecological site walkover

5.8.3 An ecological site walkover was completed across the WVP area only prior to the most recent GI commencing in April 2018. The walkover identified areas of high botanical interest including orchids and calcareous grassland. Invasive species (Japanese knotweed) was identified at six locations.

6 GROUND CONDITIONS

6.1 Introduction

6.1.1 This section outlines the geological setting of the Luton area, the ground conditions beneath the Proposed Development and the ground model which has been developed. It also outlines the ground conditions and the hydrogeological regime specific to the Existing Airport Land, Areas A to E and Airport Access Road. The known contaminative conditions of each area are also described, along with identifying any potential contaminants expected from the historical uses.

6.1.2 No GI has been completed for the off-site Highway Interventions, Off-site Car Parks and Off-site Planting and a ground model has not been developed for these areas. However, likely contaminative conditions have been summarised in **Section 6.9** based on the available information.

6.2 Ground model

6.2.1 A 3-dimensional ground model has been developed of the area in order to assist the understanding of the site. It has been collated from the following data sources:

a. Photogrammetry data at 5m resolution;

b. Topographical survey of the site;

c. Historical aerial photographs;

d. Historical maps;

e. Data from GI undertaken at the site; and

f. Information collected during GI on the type of waste material within the landfill.

6.2.2 The model is an interpretation of the ground conditions based on the available data. It will be subject to alteration and refinement as more detail becomes available, e.g. further GI. The ground model is shown in **Figure 15** and focusses on the main area of proposed development in the east of the Main Application Site.

6.3 Stratigraphic sequence

6.3.1 The GIs undertaken across the site broadly confirm the published geology, the generalised stratigraphic sequence is presented in **Table 6.1.**

Table 6.1: Summary of ground conditions encountered across the Proposed Development from GIs

Material Name	Typical Description	Typical Thickness (m)
Topsoil	Generally stiff gravelly sandy clay. The gravel comprises flint, chalk, brick, concrete and clinker.	Average of 0.3m in 'undeveloped' areas (B & C)
Made Ground (General)	Typically, arisings from past airport projects, but also includes the construction of car parks, aprons, taxiways, yard areas etc.	Generally, <1.0m but locally thicker: up to 6 m to the immediate south of the landfill.

Material Name	Typical Description	Typical Thickness (m)
		20m at western end of Airport Access Road on the top of the slope to the Dairyborn escarpment. Other localised areas up to 15m thick
Made Ground (Landfill)	Approximately 4.5 million m^3 mixed domestic, commercial and construction/demolition waste deposited between the 1930s and 1980s, directly on underlying chalk. Surface soils on the landfill were noted to be slightly clayey in places, which may represent capping material placed on the landfill but it does not appear to be an engineered cap consistent with current standards.	Between 4m at the edges and 20m at the centre
Dry valley deposits	Clay associated with the weathering of material in the valley sides and floor.	2m within the valley bottom
Head deposits	Clay associated with the weathering of material in the valley sides and floor.	2 m (up to 5 m in places) in the valleys
Clay with flints	Highly plastic clay containing flint gravel	3m on the valley sides and crest (up to 16.5m in places). Absent in the valley areas.
Chalk	Chalk – weathered near the surface.	Full thickness not proven

6.4 Made Ground

6.4.1 Generally Made Ground across most of the Proposed Development is <1m in thickness, with the exception of the following areas:

a. **Existing Airport Land** – thickness of Made Ground varied between 0.25m and up to 3.32m, generally comprising surface hardstanding

(asphalt/concrete) or topsoil in landscaped areas underlain by sub-base of type 1 fill material overlying slightly sandy slightly gravelly silty clay with variable proportions of anthropogenic materials, gravel of; concrete. Asphalt, brick, tile granite and clinker.

b. **Existing Airport - LLAOL Contractor's Compound** - a significant volume of Made Ground has been placed in the area to the south of the landfill, locally up to 10m thick. This material is typically the arisings from developments across the airport. It is understood that this material is being temporarily stored in this area (Ref. 50). Fill material was imported as part of the development of the runway and levelling of the area.

c. **Airport Access Road** - significant depth of Made Ground encountered at Airport Way up to 20.0m associated with the Deerborn escarpment.

d. **Area A** - the former landfill covers most of Area A, with waste depths of >20m above the base of the valley. The nature of the landfill material is discussed in **Sections 6.4.2** to **6.4.5** and **Table 6.2** and **Table 6.3.**

e. **Area D Off-site Car Park North** - historical mapping suggests a significant amount of fill has been imported onto Area E to form an earthwork platform; the platform was built out from the existing slope. The volume of the material deposited is estimated to be 62,000 m^3, with a maximum fill depth of 15m. Aerial photography indicates that this fill is likely to date from the mid-1950s and is predominately chalky in nature. The origin of this material is unknown, however, the aerial photography suggests excavations were occurring in a number of areas in the vicinity of the site at the time of its deposition.

f. **Area E Off-site Car Park South** - historical mapping, aerial photography and current topography suggests that up to 10m of fill has been placed in parts of the site. The age and origin of the material is unknown but aerial photography and historical mapping suggest it may have been placed during the 1940s.

Area A – landfill waste

6.4.2 The Arup New Century Park Quantitative Risk Assessment report (Ref. 50) contains a detailed assessment of the landfill. It concluded that the landfill was in operation between at least 1941 to the early 1990s and was operated as an unlined landfill with waste sitting directly onto the chalk with no engineered capping layer.

6.4.3 3D modelling undertaken as part of the Arup NCP QRA report (Ref. 50) has indicated there is approximately 4.5 million m^3 of waste present within the landfill. The waste is unsorted and uncompacted, as evidenced by settlement at the surface within WVP and Long Stay Car Park.

6.4.4 An estimate of composition and volume of infilled material has been modelled (Ref. 50), a summary of which is provided in **Table 6.2** and **Figure 16.**

Table 6.2: Period of filling, estimated volume and typical components of the landfill material

Period of filling	Estimated volume in landfill (m^3)	Typical components of this era of filling
Pre 1947	200,000	Ash/fines, wood, metal, fabric, rubber, ceramic, brick and glass.
1947-1955	400,000	Ash/fines, wood, metal, fabric, rubber, ceramic, brick and glass.
1955-1961	1,500,000	Ash/fines, wood, metal, fabric, rubber, ceramic, brick and glass.
1961-1972	900,000	Ash/fines, wood, metal, fabric, rubber, ceramic, brick and glass. Later 60's waste includes plastic components
1972-1982	1,500,000	Brick, tile, concrete, polystyrene, paper, plastic, cans and food waste, cardboard, metal, rubber and glass.
Total	**4,500,000**	

6.4.5 The ground investigation data and work undertaken as part of the Arup NCP QRA (Ref. 50) indicated that there several types of waste material present. **Table 6.3** indicates the main categories of landfill material present.

Table 6.3: Landfill material descriptions

Type of material	Category	Description
Daily cover	Non-chalky cover fill	Material has been classified as non-chalky cover fill, if it has limited waste content, i.e. fragments of brick and concrete, and has minimal chalk content. It has been found across the site.
	Chalky cover fill	Material has been classified as chalky cover fill, if it has limited waste content, i.e. fragments of brick and concrete, and has significant chalk content. It has been found across the site at variable depths.

Type of material	Category	Description
Waste	Construction and demolition waste	Significant brick, concrete cobble content, in rare cases it has been noted to contain rebar.
	Industrial waste	Waste material with significant clinker or slag, or high percentage composition of wood, metal and fabric infers an industrial nature.
	Old domestic waste	Waste material which is predominately ashy in nature with limited or no plastic component.
	Recent domestic waste	Waste material that contains household waste but has significant plastic content, and limited ashy waste. It has been encountered widely across the site between 152.25 mAOD and 137.39 mAOD. In places interspaced between non-chalk cover fill.

6.5 Dry valley deposits

6.5.1 These deposits have been mapped by the BGS so anticipated to be present in the Valley Bottoms throughout the Proposed Development. The 2016 ground investigations (Ref. 46) (Ref. 46) (Ref. 48) confirmed their presence within the valley bottom in Area B, between 0.7m and 2.1m thick.

6.6 Clay with flints

6.6.1 This formation overlies the Chalk Group. It is a residual soil formed by the solution weathering of the chalk. The Clay with Flint formation comprises stiff reddish brown slightly sandy gravelly clay with a medium cobble content. The gravel is angular to rounded and comprises flint gravel and occasional chalk.

6.6.2 The Clay with Flints varies in thickness across the development area. It is mainly present on the plateau (typically 3-5m) and valley sides and absent from the base of the valley. Previous GI has indicated it is typically 3.7m thick across the Proposed Development area but has been recorded up to 15m thick. This reflects the irregular dissolution contact between the Clay with Flints and the Chalk group.

6.7 Chalk

6.7.1 The solid Geology beneath the site comprises the Upper Cretaceous Chalk Group. The condition of the chalk encountered beneath the Proposed Development area is variable. GI undertaken in Areas A and B indicated that in the upper levels of the chalk the material was heavily weathered, generally recovered as structureless sandy very silty gravel or sandy gravelly silt.

6.7.2 The chalk material recovered was occasionally recorded as having yellowish brown staining on what are considered to be natural fracture surfaces. Soft grey marl bands were also recovered from within the chalk.

6.8 Solution features

6.8.1 Solution features are formed by the dissolution of the Chalk as a result of chemical weathering. These features are present at the interface between the Clay with Flints formation and the Chalk. As such, these are predominately present where Clay with Flints formation is present such as the plateau and valley side. Solution features are present at the interface between the Clay with Flints formation and the Chalk but less frequent in the base of the valley.

6.8.2 There are 15 solution pipes recorded located 100m north of Area A and three recorded solution pipes located in the north eastern part of Area E (Ref. 11)

6.8.3 It is difficult to detect solution features via GI, as they are discrete features, however the GI undertaken to date suggests these features are deeper and more frequent in the valley sides than the base of the valley.

6.9 Contamination conditions - evidence from previous work

Existing airport land

6.9.1 Several ground investigations have been completed across the existing airport land for previous developments. These did not identify any particular soil contamination sources, however it has been noted that during historical groundwater monitoring elevated concentrations of various metals, sodium, chloride and pesticides were noted (Ref. 39). The particular soil and groundwater conditions in the area of the proposed development works have been extracted and described below.

a. The assessment records pH to be slightly alkaline, TPH concentrations were detected above the LOD within Made Ground and superficial geology however did not exceed the adopted assessment criteria (LQM/CIEH for a commercial land use);

b. Dibenz(a.h)anthracene and Benzo(a)pyrene were recorded as above the adopted assessment criteria in two samples at shallow depth.

c. VOCs were typically recorded as below the LOD except for Bromobenzene, cis-1,3-dichloropropene, dibromochloromethane and Hexachlorobutadiene. Mott McDonald report these compounds as not exceeding the adopted assessment criteria;

d. In the Mott MacDonald Phase 1 Report, 2015 (Re. 41) PFOA and PFOA were included in the soils analysis suite, these contaminants are reported as being locally identified at elevated concentrations; and

e. Asbestos was detected in four samples of Made Ground . The asbestos was identified as chrysotile (loose fibres and insulation lagging). Quantification testing was not undertaken.

Groundwater chemistry

f. Leachate testing undertaken on Made Ground and superficial strata records exceedances of drinking water standards (DWS) and environmental quality standards (EQS) for sulphate, ammoniacal nitrogen, cadmium, lead, zinc and fluoranthene. Chromium (III) was recorded as exceeding EQS only;

g. Groundwater samples recorded exceedances of DWS for barium, iron and sulphate with mercury exceeding EQS only. TPHCWG Aliphatic bands inclusive of C10 to C35 were recorded as exceeding DWS. Mott MacDonald comment that TPH concentrations decrease throughout the monitoring period and suggest the concentrations are reflective of a short pulse of contamination through their monitoring infrastructure;

h. Isolated instances of PFOS in groundwater and surface water were also noted; and

i. To confirm that the overlying Made Ground was not the source of TPH in groundwater Mott MacDonald undertook a level 1 Remedial Target Methodology (RTM) risk assessment which confirmed that TPH from soils are not adversely affecting the chalk aquifer.

Ground gases

j. The assessment indicates that the worst-case characteristic situation for each borehole monitored is CS1. No flow was observed during most rounds and the results indicate the standpipes monitored were not actively gassing. Mott MacDonald recommended additional monitoring to confirm this; and

k. Methane was not detected above 0.0% v/v and CO_2 concentrations ranged between 0.0%v/v to 7.9% v/v.

LLAOL Contractor's Compound and Fire-Training Ground

Soil chemistry

a. Site levels and conditions within this area are fluctuating due to the ongoing earthworks within the airport area;

b. Elevated concentrations of PAH and TPH were detected in the soils at one location within this area;

c. PFAS and PFOAS are likely in this area and are further discussed in the GQRA.

d. The ground investigation results to date (Ref. 46) (Ref. 43) suggest low levels of contaminants. Some ACMs were identified within stockpiled materials.

Groundwater chemistry

e. Groundwater analysis undertaken (Ref. 48) indicated exceedances of generic screening criteria for some contaminants in the groundwater including nitrate and nitrite.

Ground gases

f. Slightly elevated concentration of ground gases were noted during the Structural Soils 2017 GI (Ref. 46) (Ref. 49), within this area where a significant thickness of Made Ground is present.

g. The monitoring results indicate the maximum concentration of methane detected was 9.3% v/v and the maximum concentration of carbon dioxide was 3.3% v/v. There was low or negligible standpipe emission flow rates, with maximum positive flow detected being 0.2 l/hr.

Airport Access Road

6.9.2 The section of the AAR from Airport Way to Percival Way was part of a planning application submitted for NCP. This area was subject to two previous site investigations, (Ref. 49) and (Ref. 54) the soil analysis results from which have never been formally assessed. An indication of the likely significant impacts was included in the Environmental Statement Soils and Geology Chapter for NCP (Ref. 61) which indicated there were localised asbestos contamination within the Made Ground and substantial Made Ground deposits encountered in the vicinity of Airport Way. The ES concluded following suitable mitigation there would be no significant effects but indicated additional ground investigation was required.

6.9.3 Indication of contamination extracted from the GI reports were:

a. The presence of hydrocarbon odours, discolouration and the presence of membranes and geotextiles were observed across areas of the scheme.

b. Asbestos was identified as loose fibres at seven locations in the Made Ground (out of 51 samples tested) across the area, generally as chrysotile at concentrations between <0.001 to 0.002%. Amosite fibres and board were identified in two samples at concentrations of 0.002% and 6.622% respectively. No visual ACMs were identified.

6.9.4 The eastern end of Airport Access Road is located on the former landfill (Area A) for purposes of risk assessment and ease of reporting the landfill is viewed as a single entity and therefore this area of the Airport Access Road has been included with the former landfill assessment.

Area A Former Landfill

Waste types and chemistry

a. Detailed analysis of the waste characterisation from the Aecom 2018 GI (Ref. 63) is provided in the GQRA. Observations from the forensic examination of samples of the waste taken during GI indicates that it is principally domestic, commercial and construction/ demolition waste types and is predominately non-organic in nature i.e. soils, construction waste;

b. The waste was noted to be well degraded and predominately dry, with no leachate encountered during both the Structural Soils (Ref. 46) and Aecom GIs (Ref. 63).

c. A number of contaminants were present within the landfill waste material including metals, PAHs, VOCs and inorganic compounds; and

d. A specialist survey for radionuclides was undertaken as part of the recent GI works (Ref. 63). This survey indicated the levels observed were consistent with the expected natural background levels.

Groundwater chemistry

e. Groundwater analysis undertaken (Ref. 50) indicated exceedances of generic screening criteria for some contaminants in the groundwater including; heavy metals, hydrocarbons, PAHs, chlorinated solvents and ammoniacal nitrogen.

Asbestos

f. Asbestos containing materials (ACMs) were noted within the former landfill, but no significant accumulations were encountered; and

g. The Structural Soils 2016 (Ref. 52) investigation identified asbestos within three borehole locations, but fibres were below the limit of detection (LOD) (<0.001%). Further testing of 129 samples was undertaken in the recent Aecom GI (24), of these 80% were below the LOD (<0.001%). Six samples were identified to have asbestos content which exceeded the hazardous waste threshold of 0.1%.

Landfill gases and VOCs

h. Spot monitoring of gas concentrations and flows has been undertaken during the Structural Soils GI (Ref. 46), recent Aecom GI (Ref. 63) and as part of monthly monitoring undertaken over the last 12 months (2017 to 2018);

i. The monitoring results from the Structural Soils (Ref. 46) and Aecom GI (Ref. 63) indicate that high concentrations of bulk landfill gases (carbon dioxide and methane) have been recorded within the waste. Methane was detected in the range of 0 to 76.1% v/v and carbon dioxide in the range of 0 to 31.4% v/v. Hydrogen sulphide concentrations ranged between 0 to 9 ppm However, there was low or negligible standpipe emission flow rates, with maximum positive flow detected being 0.9 l/hr;

j. The gas readings in boundary wells also recorded low concentrations and flows;

k. Continuous gas monitoring was undertaken during the Aecom GI (Ref. 63) and was broadly consistent with the spot readings; and

l. Very low or negligible in-ground concentrations of trace VOC compounds were encountered in the Aecom GI (Ref. 63).

Area B Land West of Winch Hill

Soil chemistry

a. The Structural Soils 2017 investigations (Ref. 46) (Ref.49) in this area indicated generally low levels of contaminants are present, with detection of some pesticides associated with agricultural use.

Groundwater chemistry

b. Groundwater analysis undertaken within Area B (Ref. 48) indicated exceedances of generic screening criteria for some contaminants in the groundwater; iron, manganese, ammoniacal nitrogen, nitrate and nitrite.

Ground gases

c. The GI data to date does not indicate any elevated ground gases within this area; and

d. The monitoring results from the Structural Soils (Ref. 46) (Ref.49) investigations indicate the maximum concentration of methane detected was 0.2% v/v and the maximum concentration of carbon dioxide was 3.7% v/v. There was low or negligible standpipe emission flow rates, with the maximum positive flow detected being 0.6 l/hr.

Area C Land East of Winch Hill

a. No available GI data on contaminant concentrations within this area.

Off-site Car Parks Areas D and E

6.9.5 There is no available GI data on contaminant concentrations within these areas. However, a ground investigation of adjacent land to the west at Stirling Place/Napier Park formerly areas of the Vauxhall Motor Works did identify poor background water quality in the area with groundwater flow predominately to the south toward the River Lea. GIs approximately 100m north west, concluded there was no risk to human health from soil and groundwater contamination, a low risk was concluded to groundwater, no remediation being required.

Off-site planting

6.9.6 No GI or assessments have been undertaken within the area Off-site Planting. Based on the historical review, the nearest potential source of contamination was a brick and tile works approximately 200m to the north and was shown to be disused by 1901. It is considered that there is little contamination potential from this potential source to the areas of Off-site Planting.

Off-site highway interventions

6.9.7 No available GI data for soil or groundwater chemistry in these areas

6.10 Contamination conditions - contaminants of concern

6.10.1 Based on the desk study information in **Section 5** and the ground conditions detailed above, a summary of the potential/identified contaminants of concern (CoC) associated with the current and historical use of the Development Area and surrounding areas up to 250m are detailed in **Table 6.4** and **Table 6.5** respectively. Where appropriate, Industry Profiles (Ref. 70) have been used to provide an indication of likely contaminants. The location of the features referred to are shown in **Figure 9.**

Table 6.4: Potential contaminants on-site based on historical/current activities

Source	Areas Affected	Potential Contaminants
Former landfill	A	Landfill gas (mainly methane and carbon dioxide), Volatile organic contaminants (VOCs), putrescible and biodegradable matter, asbestos, metal, metalloids and their compounds, leachate (metals and inorganic compounds), chlorinated solvents, hydrocarbons, inorganic compounds, formaldehyde, radionuclides, perfluorooctanic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS)
Car Park – potential spillages	Existing Airport Land, Areas A, D and E and Off-site Highway Interventions	Fuels (petrol, diesel): naphthalene, tetraethyl lead, methyl tertiary butyl ether (MTBE), tetramethyl lead, TPH, benzene, toluene, ethylbenzene, xylenes (BTEX), PAHs. Heavy metals, metals and metal compounds. Anti-freeze: ethylene glycol.
General – Made Ground	Areas A and B, Existing Airport Land, LLAOL Contractor's Compound, Airport Access Road, Off-site Highway Interventions	TPH, oils, benzene, PAHs.
Allotments	Area B	Ash, metals, pesticides/herbicides, PAHs
Agricultural Land	Areas B and C	Metal, metalloids and their compounds, herbicides and pesticides and asbestos.
Airport activities - Asphalt and cement works	LLAOL Contractor's Compound	Metals, metalloids, inorganics, asbestos, solvents, PAHs, phenols, polychlorinated biphenyls (PCBs), hydrocarbons.
Airport activities - Fire training ground		Firefighting agents: allophanates, carbamates, hydrolysed proteins, glycols, ether alcohols, perfluorinated compounds- PFOA and PFOS Fuel storage: Hydrocarbons including fuels and oils, TPH, PAHs, benzene, toluene, ethylbenzene and xylenes (BTEX) and metals.

Source	Areas Affected	Potential Contaminants
Airport activities – Run Up bay		Hydrocarbons, metals, phenols
Electrical substations		Hydrocarbons, metals, PCBs.
Airport activities (including tanks)	Existing Airport Land	Anti-freeze and de-icing agents: Monoethylene glycols, diethylene glycols, propylene glycols, urea, calcium acetates, magnesium acetates. Organic solvents: ketones, methanol, aliphatic and aromatic hydrocarbons, esters, chlorinated compounds. Paints and associated solvents and thinners: polyurethanes, xylene, toluene, methyl ethyl ketone, methyl isobutyl ketone. Hydrocarbons i.e. Jet fuel, diesel (operating plant) Acids/bases, PAHs, PCBs and inorganic compounds
Scrap yard	Area A	Fuels (petrol, diesel): naphthalene, tetraethyl lead, methyl tertiary butyl ether (MTBE), tetramethyl lead, TPHs ,benzene, PAHs. Heavy metals, metals and metal compounds. Anti-freeze: ethylene glycol. Asbestos
Aircraft manufacturing (Percival works)	Existing Airport Land and Airport Access Road	Organic solvents chlorinated (i.e. trichloroethene) and non-chlorinated (i.e. alcohols, benzene, ketones, toluene), metals and metal compounds, fuels and other oils (i.e. aviation fuels, fuel oil, hydraulic fluids, lubricating oil), PCBs, cyanides, acids, asbestos, radionuclides (tritium and radium) which may have been used in the dials
Depot		Dependent on use and type of depot, may include fuel and other oils
Sewage farm	Airport Access Road	Metals, metalloids, inorganic compounds, acids/alkalis, organic compounds, PCBs, micro-organisms (pathogens), methane, carbon dioxide, hydrogen sulphide, asbestos

Source	Areas Affected	Potential Contaminants
Motor works	Area D	Metals, metalloids, acids/alkalis, PAHs, fuels and oils, solvents, chlorinated solvents, asbestos, hydrocarbon, PCBs, organics, chlorinate and non-chlorinated solvents
Rifle range		Metals, in particular lead
Imported earthworks fill	Areas D and E	Dependent on material source – potential contaminants could include asbestos, metals, organic compounds, PAHs and hydrocarbons

Table 6.5: Potential contaminants off-site, within 250m based on historical/current activities

Source	Potential Contaminants
Motor Works	Metals, metalloids, acids/alkalis, PAHs, fuels and oils, solvents, chlorinated solvents, asbestos, hydrocarbon, PCBs, organics, chlorinate and non-chlorinated solvents
Railway	Ash, ballast, fuel, oils, antifreeze liquids (ethylene glycol), metals, PCBs, greases, organic solvents, asbestos, creosote, inorganic compounds
Sewage farm	Metals, metalloids, inorganic compounds, acids/alkalis, organic compounds, PCBs, micro-organisms (pathogens), methane, carbon dioxide, hydrogen sulphide, asbestos.
Depot	Dependent on use and type of depot, may include fuel and other oils.
Service Garage / Fuelling Station	Hydrocarbons including fuels and oils (TPH, PAHs and BTEX compounds).
Engineering Works (various non-descript,)	Metals, metalloids, inorganic compounds, acids/alkalis, fuels and oils, solvents, chlorinated solvents, asbestos.
Foundry (metal works)	Metals, metalloids, acids/alkalis, fuels and oil (TPH and BTEX), PAHs, solvents and chlorinated solvents,
Dyeing and Bleaching Works	Metals, metalloids, acids/alkalis, fuels and oil (TPH and BTEX), solvents and dioxins.
Cemetery / Burial Grounds / Abattoir	Micro-organisms, Pathogens,
Former landfill (Waste Types Unknown)	Landfill gas, VOCs, putrescible and biodegradable matter, asbestos, metal, metalloids and metal compounds, chlorinated solvents, non-chlorinated solvents, hydrocarbons, inorganic compounds
Allotments	Ash, metals, pesticides/herbicides, PAHs
Fire Stations	Firefighting agents: allophanates, carbamates, hydrolysed proteins, glycols, ether alcohols. PFOA and PFOS. Fuel storage: hydrocarbons including fuels and oils, TPH, PAHs, (BTEX) and metals.

Source	Potential Contaminants
Electrical substations / Electricity Generation Station	Hydrocarbons, metals, PCBs

7 HYDROGEOLOGICAL CONDITIONS

7.1 General

7.1.1 Groundwater level and chemical quality monitoring has been undertaken during 2018/2019 to characterise the hydrogeological conditions beneath and in the vicinity of the former landfill.

7.1.2 The following sections provide an overview of the hydrogeological conditions for the Proposed Development. A detailed hydrogeological conceptual model has been developed (Ref. 71) which, along with literature sources provide the basis for the following sections.

7.2 Aquifer properties

7.2.1 The main water bearing strata in the region is the Chalk which is designated a Principal aquifer. The Chalk Group forms the most important aquifer unit within the Thames Basin, supplying water for public consumption and supporting river flows within Chalk bournes (intermittent streams flowing from a spring) characteristic of the Chilterns and North Downs.

7.2.2 The ability of groundwater to flow (transmissivity) within chalk is complex, the chalk is a dual-porosity, dual permeability aquifer. The matrix provides the storage and the fractures provide permeable pathways (Ref. 72). Most of the flow in the chalk in the area is likely to occur in a few dilated fractures, typically occurring at or within a few tens of metres of the water table through dissolution enhanced features in the chalk which can lead to interlinkages between groundwater catchments (Ref. 73). Literature has noted the following important features of the fractures which affect the hydraulic properties of the chalk (Ref. 74):

a. The fracture density is generally thought to peak at about 20m bgl; productive fractures decrease with depth. It is generally accepted that productive fractures are restricted to the upper few tens of meters of the aquifer (circa 50m);

b. Fractures are both horizontal and vertical;

c. The fractures can be termed primary and secondary fissures. Primary are the ubiquitous narrow fractures which have a typical hydraulic conductivity of the order of 0.1 m/d ($1.2x10^{-6}$m/s) and contribute a transmissivity of $20m^2$/d to the aquifer. The secondary fractures are the solution enlarged fractures and they contribute the remaining transmissivity of the aquifer, often more than $1000m^2$/d. The transmissivity of the matrix is generally negligible;

d. The matrix of the chalk does not contribute directly to the permeability, but it has an important role in providing water to the fractures;

e. The areas of highest transmissivity generally tend to be beneath valleys, with the highest values in the unconfined chalk;

f. Aquifer properties are also strongly controlled by lithology, with hard bands of chalk rock having increased permeability as a result of associated fracturing;

g. It is further complicated by the weathered top of the chalk, which is often referred to as 'putty chalk', where the chalk is structureless and forms a clayey silt. This material can have significantly lower hydraulic conductivity reducing the transmissivity of the aquifer. The travel time within the putty chalk horizon is estimated to be between 2-15 times slower than in the main Chalk (Ref. 73); and

h. Falling head and borehole soakaway tests undertaken in the chalk during the Structural Soils 2017 (20) (21) (22) GI works indicated a permeability ranging from $2.28x10^{-4}$ m/s and $7.66x10^{-9}$m/s, which are within the range reported within the literature.

7.3 Regional flow

7.3.1 The Vale of St Albans numerical model, developed and constructed by Atkins, is the most up-to-date tool used by the Environment Agency (EA) for predicting flows and levels in the Thames catchment around Luton (Ref. 72). Luton Airport is situated in the northern part of this model within the Upper Lea catchment. The contour outputs from the Vale of St Albans model and the hydrogeological map of the area "Sheet 14: Hydrogeological Map of the area between Cambridge and Maidenhead (1:100,000)" (Ref. 75) both show the dominant direction of regional flow to be to the southeast, along the dip of the Chalk.

7.3.2 The Proposed Development lies on the divide between two groundwater catchment areas; the Upper Lea Catchment and the Mimram Catchment. The groundwater divide is located approximately along the eastern boundary of the existing airport.

7.3.3 To the west of the groundwater divide, in the vicinity of the airport the groundwater flows in a south westerly direction towards the River Lea. To the east of the groundwater divide, the flow system is likely to be locally modified by abstraction of groundwater from the Chalk aquifer. The nearest potable water supply borehole is located approximately 1.5km northeast from the Main Application Site boundary at Kings Walden. A second potable water abstraction (Nine Wells) is located at Whitwell, approximately 4.5km east of the Main Application Site and 5.3km east of the former landfill. Both may create a more easterly flow direction than the south easterly regional flow.

7.4 Groundwater levels and variability

Regional groundwater levels

7.4.1 Groundwater levels from EA observation boreholes (OBHs) within 3km of the Proposed Development have been used to form an understanding of the groundwater levels in the region. The location of these OBHs, the groundwater levels and the variability over time are shown in **Figure 17a** and **17b**.

7.4.2 The outputs from the EA monitoring boreholes fit with the conceptual understanding of the chalk groundwater system in the area. Groundwater levels are highest to the west; Putteridge Bury and Luton observation boreholes both show groundwater levels around 110m AOD, whereas those in the Village Pump at Preston to the east of this site are approximately 90m AOD. Groundwater levels in the river valleys at monitoring locations Lilley Bottom and Mimram 1 (Mimram 1 demonstrates levels in the river) are noticeably lower than those located in the interfluves.

7.4.3 Overall the months with higher groundwater levels (February to June) tend to also show the largest range between maximum and minimum levels.

7.4.4 At low groundwater levels (December 1997) the groundwater levels range from 100m AOD (~20m bgl) at the eastern boundary of the site to approximately 105m AOD (~50m bgl) in the centre of the groundwater divides. At high groundwater levels (April 2001) the groundwater levels range from 110m AOD (~10m bgl) at the eastern boundary to approximately 120m AOD (~35m bgl) in the centre of the groundwater divides. There is more variation in groundwater levels towards the centre of the groundwater divide within the interfluves, than at the edges of the site, and therefore a steeper hydraulic gradient (both east and west) exists across the site during times of high groundwater levels. This would suggest that the likely seasonal range in groundwater levels around the Proposed Development area is 15m where the groundwater divides are situated underneath the existing airport, decreasing to 5m fluctuations in groundwater within the dry valley to the east.

Groundwater levels at the proposed development

7.4.5 Groundwater data provided by the EA (Ref. 71) indicates there are large fluctuations in the water level and groundwater flow direction beneath the airport that may be influenced by nearby groundwater abstractions. A groundwater monitoring programme from 2006-2007 (Ref. 76) recorded groundwater levels in the White Chalk subgroup beneath the airport at approximately 120m AOD (25m bgl) in the centre of the airport decreasing to 101m AOD (approximately 60m bgl) at the western boundary.

7.4.6 Groundwater level monitoring has been undertaken in a network of boreholes, over various periods between 2016-2019 within the main area of new development east of the existing airport. Groundwater level measurements have been taken from these boreholes over the last two years (approximately every two to three months). Data from November 2016 to March 2019 was available at the time of writing this report. In addition, post fieldwork groundwater monitoring was undertaken in a series of boreholes (GW201-GW207) following the recent GI from August 2018- March 2019. This included locations up and down gradient of the former landfill. The location of the groundwater monitoring boreholes are shown on **Figure 17a**.

7.4.7 The groundwater monitoring has indicated the following about the groundwater levels within the Proposed Development area:

a. Groundwater levels recorded between May 2016 and May 2017 showed little variation (<5.0 m). However, the results from more recent monitoring;

January to August 2018 highlighted a maximum variation of 10.94m in BH04 (western part of Area A) compared with a maximum variation to the east (Area B) of 4.47m. The data supports the Vale of St Albans model outputs (Ref. 72) suggesting that the likely seasonal range in groundwater levels around the airport expansion is 10m to 15m underneath the existing airport site, decreasing to 5m variation within the dry valley;

b. Groundwater monitoring undertaken for the MPT, indicates that groundwater in Areas D and E (Off-site Car Parking) is likely to be shallow (4-7m bgl); and

c. It was noted that ARP6-LFBH05 (located in LLAOL Contractor's Compound) recorded the highest groundwater levels at 118.68m bgl in March 2017. The groundwater levels recorded at this location are consistently higher than the levels recorded beneath Area A. It is possible that the groundwater levels in this borehole are being influenced by the presence of the central soakaway, which are artificially increasing the levels of water in this borehole, creating a mounding effect.

8 SUMMARY AND DISCUSSION

8.1.1 This section brings together all the information from the desk study, ground conditions and hydrogeology to inform a discussion of the potential risks from land contamination within the Proposed Development area.

8.2 Adequacy of data

8.2.1 A review of the data collected and an assessment of its adequacy to inform the application for development consent, with respect to contamination issues, has been undertaken, this is presented in **Table 8.1.** It has been noted where additional GI is likely to be required after DCO for the detailed design stage.

Table 8.1: Summary of data and adequacy

Area	Available data
Existing Airport Land	The GIs undertaken at the existing airport were designed to address previous proposed developments, there has not been complete coverage of the airport. In recent years the investigations reviewed include 2014 and 2016 Concept Site Investigations reported by Mott MacDonald (2017). Soil Engineering 2012 (Ref. 31) MPT GI (Ref. 51), RSK (2012) (Ref. 35) Aecom (2015) (Ref. 57) The GIs have not identified any accumulations of contamination that might act as sources for a contaminant linkage and no remediation works have been undertaken. It is noted that generally groundwater samples taken from beneath the airport were contaminated with hydrocarbons, metals and pesticides (Ref 41). The areas currently proposed for redevelopment are included in the Mott MacDonald report (Ref. 41). Contaminants have been reported above the LOD but generally not exceeding adopted assessment criteria. Localised exceedances of two PAHs have been recorded. The report concluded that groundwater is impacted above drinking water standards (DWS) and some environmental quality standards (EQS) and that several contaminants in the soil have leaching potential. The data would be considered sufficient for works involving breaking of hardstanding and minor excavations within the area however, for piling works, a foundation works risk assessment would be recommended to ensure that piled foundations do not create pathways or mobilise contamination within the chalk aquifer. The data is sufficient for the requirements of the application for development consent but additional investigation may be required for detailed design.

Area	Available data
LLAOL Contractor's Compound	Two GIs have been undertaken within this area: the 2017 Structural Soils investigation and the 2016 Concept investigation, reported in the 2017 Mott MacDonald report, giving an approximate grid spacing of 117m. Much of the data relates to the western half of this area, with limited data available for the eastern half. An assessment was undertaken by Mott MacDonald for data adjacent to the west of this area which concluded there were no significant contamination risks to human health or controlled waters associated with Made Ground materials on-site. Test results have identified occasional ACMs in the stockpiled material. It is concluded that the available data is sufficient for the purposes of the application for development consent.
Airport Access Road	Three GIs cover the eastern area of the proposed Airport Access Road within the landfill, these are considered as part of Area A. The section of the road in Area B is considered to be covered by the Structural Soils Ground Investigation at Century Park (Ref. 47) and is sufficiently characterised. The Structural Soils (2017) (Ref. 46) and Geotechnics (Ref. 54) GIs cover the western and central extent of the proposed road. Chemical testing was completed but never formally assessed, although the ES Chapter for NCP (Ref. 61) indicates there are no significant contamination sources, additional GI was recommended. It is noted that the Pell Frischmann PSSR (Ref. 45) identified the sewage farm at the western end of the proposed road alignment as a potential contamination source, however analysis of bacteriological pathogens was not included, a tank area was also proposed for investigation, however the scheduled exploratory holes were not completed. The spacing of GI holes was generally acceptable although there was a gap toward the centre of the proposed route. It is therefore considered that sufficient data is available for the application for development consent but some additional GI will be required at detailed design.
Area A – Former Landfill	Multiple GIs have been undertaken within this area, with the most recent investigation in 2019 (Ref. 52). This has generated a GI spacing of approximately 50m across the landfill for ground gas monitoring locations and 150m for groundwater monitoring locations. This is consistent with recommended sampling grids for a main site investigation and has been based on a robust GI strategy. The sampling locations have good spatial, lateral and vertical distribution, encompassing all the main eras of waste deposition. A significant number of soil (1219 samples), groundwater and leachate (328 samples) and gas/VOC samples (96 samples) have been undertaken and analysed to industry standards providing a comprehensive data set for the area.

Area	Available data
	A considerable amount of gas monitoring has been undertaken which has included: a. Twelve months' worth of spot gas monitoring (concentrations measured at monthly intervals from boreholes); b. Continuous gas monitoring in five boreholes across the landfill during the 2019 GI (which have taken continuous readings over a 3-month period); and c. Samples of bulk and trace gases to determine the constituents and volumes of gases within the landfill. The investigations undertaken to date provide a good understanding of the general composition of the waste, groundwater, leachate and landfill gas conditions within this area, and is therefore sufficient to asses the potential risks for the application for development consent.
Area B	Two GIs have been undertaken within this area, providing reasonable coverage of recent data (approximately 90m grid). Soil and groundwater sampling and testing were completed and monitoring for ground gases undertaken. This area does not have a history of contaminative uses; however it will form a key area for site won materials for the Proposed Development. Therefore, this sampling grid is considered sufficient to broadly characterise the soil and groundwater in this area.
Area C	No previous GI was obtained for this area. However, the available information indicates that there have been no significant contaminative land uses. Therefore, this area is considered to be greenfield land and does not require geoenvironmental investigation
Area D	There is no GI data available for this area, but ground conditions are likely to be similar to those encountered in nearby Napier Park and Stirling Place developments, which were part of the former Vauxhall Motor Works. Area D did not form a main part of the Vauxhall Motor Works manufacturing area and no tanks are shown on the historical maps. Therefore, it is not anticipated that significant contamination is likely to be present within this area but there may be occasional areas of localised contamination from the historical uses of the site and its current use as a trailer park and car parking. This information is sufficient to assess potential risks to the Proposed Development for the application for development consent, however, further GI is likely to be required prior to construction to confirm the contamination conditions.
Area E	The earthworks platform was constructed during the 1940s from material of unknown origin or quality, therefore, there is the potential for this material to be a source of contamination. It is not anticipated that significant contamination is likely to be present within this area but there may be occasional areas of localised contamination associated with the fill material used for

Area	Available data
	earthworks. This information is sufficient to assess potential risks to the Proposed Development for the application for development consent, however, further GI is likely to be required prior to construction to confirm the contamination conditions.
Off-site Planting	Based on the historical review, no sources of contamination would be identified within the Off-site Planting areas. The nearest possible source was a Brick Works 200m to the north which is shown to be disused by 1901 and is currently a woodland. It is concluded that this area has no significant contamination potential.
Off-site Highway Interventions	No GIs have been undertaken within these areas.

8.3 Summary of contamination risks within proposed development

8.3.1 The location and extent of potential sources of contamination in relation to the Proposed Development are shown in **Figure 9** and described below.

General conditions in surrounding area

8.3.2 Local contamination of the groundwater beneath Luton Airport by hydrocarbons and de-icing agents has been recorded (Ref. 40).

8.3.3 Historically, significant earthworks to build development platforms associated with the airport have been undertaken, including the runway area. The material used in the earthworks pre-dates current guidance on land contamination and is of unknown chemical quality.

8.3.4 Groundwater at Luton is known to be of poor quality because of a “low level halo” of solvent contamination due to the legacy of industrial sites within the area. (Ref. 77).

Conditions within the proposed development

Existing Airport Land

8.3.5 Investigations around the existing airport terminal building, car parks and fixed base operations to the eastern boundary of the airport have not identified any significant contamination sources in soils or groundwater. No remediation works have been required for previous airport developments. No significant contamination is therefore anticipated in the areas of proposed development on the Existing Airport Land.

LLAOL Contractor's Compound

8.3.1 This area is currently used for several different activities. Site levels are fluctuating due to the ongoing earthworks within part of the site. A number of GIs have been undertaken covering this area. An investigation undertaken in 2015 for Mott MacDonald (Ref. 43) analysed soil samples from five locations. Concentrations of TPH above the limited of detection and elevated concentrations of PAH above adopted assessment criteria were identified within Made Ground in one location only, adjacent to the landfill.

8.3.2 Consultations with the Environment Agency during the DOC process has identified the Fire training area as a potential source of PFAS and PFOA in groundwater. This issue has been addressed as part of recent groundwater monitoring for the landfill GI and is discussed further in the GQRA.

8.3.3 Slightly elevated concentrations of ground gases were noted during the Structural Soils 2017 GI (Ref. 46), within this area where a significant thickness of Made Ground is present.

Airport Access Road

8.3.4 The Percival Works was present to the northern boundary of the existing airport and was located over a section of the proposed Airport Access Road at President's Way. Other potentially contaminative activities along the route include; former sewage works and general engineering works.

8.3.5 Two investigations have been completed along the proposed link road (Ref. 49) (Ref. 54). The eastern areas have been assessed as part of Areas A and B, being located on the landfill and WVP respectively. The analysis for the soils from the central and western sections have not previously been subject to formal assessment, this has been completed as part of the GQRA (Ref. **Error! Bookmark not defined.**). Significant depths of Made Ground were recorded at the Airport Way end associated with Deerborn Escarpment and asbestos was recorded at a few locations along the route. The ES Chapter submitted for the NCP development indicates no significant impacts likely due to recorded contamination concentrations, additional GI was recommended (Ref. 61).

Area A – Former Landfill

8.3.6 The review of desk study information indicated the main area of potential contamination within the proposed scheme is the former Eaton Green landfill present in Area A. A significant part of the Proposed Development will be within this area including the new terminal building and NCP developments.

8.3.7 The review of available information on the former landfill and the findings of the Arup QRA (Ref. 50) indicate the following:

a. The site has been used for waste disposal from circa 1940s – 1980s, with the major period of filling during the 1950s/1960s;

b. The extent of filling is less than the existing Environment Agency boundary, with the north eastern portion showing no evidence of being filled with waste;

c. Previous GI suggests the landfill is principally domestic/commercial waste, with very little industrial type wastes encountered;

d. ACMs were noted within the former landfill, which is expected due to the age of the landfill but no significant accumulations were encountered;

e. There is the potential for radionuclides to be present in the waste materials if luminous aircraft dials from the nearby Percival Works were disposed there. However, testing in the 2018 GI undertaken by Aecom (Ref. 63) suggests the levels observed were consistent with the expected natural background levels;

f. Observations during the 2017 NCP ground investigation (Ref. 49) and the leachate analysis suggests the waste could be described as well degraded domestic waste but there is still a significant amount of organic material remaining;

g. The Arup QRA (Ref. 50) indicates the chemistry of the landfill presents little risk to future site users and the groundwater monitoring provides little evidence the landfill is causing significant contamination of the groundwater. However, the QRA recommended further GI and monitoring was undertaken order to confirm this assessment; and

h. The preliminary assessment undertaken as part of the Arup NCP QRA (Ref. 50) indicated elevated concentrations of methane and carbon dioxide but low flow rates. Overall the measurements typically indicated CS2 (low risk) or CS3 (moderate risk) scenario with CS4 (moderate to high risk) encountered on one occasion. The results are consistent with an ageing landfill which is not generating significant volumes of gas.

8.3.8 Groundwater levels at site would not intercept the base of the former landfill at approximately 130m AOD. The highest modelled groundwater level is approximately 127m AOD based on EA 2001 OBHs. However, the Proposed Development will involve piling through the landfill into the chalk and in some instances into the saturated zone. The potential

impacts of this activity will require a foundation works risk assessment and careful management during the works.

8.3.9 The solution features in the area such as enlarged joints and solution pipes are important within the unsaturated zone because they may provide conduits for the rapid transport of contaminants from the surface to groundwater thus bypassing the attenuation capacity of the soil and unsaturated zones.

8.3.10 Further GI undertaken in 2018 provided information on the following:

a. Chemistry of the landfill, in particular the industrial waste in the older landfilled materials beneath the Long Stay Car Park to complete the assessment of risk to human health;

b. Further information on the characteristics of the landfill to determine likely presence of obstructions, types and proportions of wastes and check for radionuclides;

c. Information to inform foundation design, including likely settlement rates, concrete classification, earthworks methodologies, percentage of reusable materials etc;

d. Fully characterise the landfill gas regime to meet CIRIA guidance, inform the design of gas protection measures for proposed buildings and control measures to prevent off-site migration;

e. Weathering and solution of the top of the chalk; and

f. Additional information to determine the groundwater regime: groundwater levels, seasonal variation, flow direction, source and extent of contamination, evidence for migration of contaminants from the landfill to surrounding areas, evidence of off-site sources.

8.3.11 The GI work has been completed and interpretation of the data is presented in the GQRA (Ref. 67).

Area B

8.3.12 This area of the Proposed Development has no significant history of contaminative use based on the available information.

8.3.13 The GIs completed in 2016 by Structural Soils (Ref. 47) across Area B show very limited Made Ground within the WVP core and generally 300mm topsoil was encountered at the surface in undeveloped areas. The Clay with Flints deposit was present at the crest and granular deposits present in the base of the valleys. The soil analysis undertaken did not indicate any elevated concentrations of contaminants.

8.3.14 Groundwater analysis undertaken within Area B indicated exceedances of generic screening criteria for some contaminants; iron, manganese, ammoniacal nitrogen, nitrate, nitrite. Although elevated levels of ammoniacal nitrogen, nitrate and nitrite could indicate the presence of landfill leachate break out, these determinants can also occur naturally, associated with agricultural land uses.

8.3.15 Ground gases were generally recorded at low concentrations; methane below limits of detection and up to 4% v/v carbon dioxide, suggesting the migration of gases from the landfill to this area is not occurring.

Area C

8.3.16 No previous GI has been undertaken in this area. However, a review of the historical data indicates that this area is greenfield and has only ever been agricultural land. Therefore, no potential sources of contamination are considered to be present in this area.

Area D

8.3.17 The historical mapping indicates that site was partly used by the Vauxhall Motor Works from 1924. In 1947 it was shown as used for parking. The 1955 mapping shows a significant earthworks platform constructed, the aerial photography indicates that this fill was predominately chalky in nature. The origin of this material is unknown, however, the aerial photography suggests excavations were occurring in a number of areas in the vicinity of the site at the time of its deposition.

8.3.18 There is no GI data available for this area but ground conditions are likely to be similar to those encountered in nearby Napier Park and Stirling Place developments, which were part of the former Vauxhall Motor Works. The GI and assessment work undertaken for Napier Park indicated that significant hydrocarbon contamination was encountered in areas associated with storage and the main manufacturing areas. In other parts of the site occasional areas of localised contamination were encountered. Area D did not form a main part of the Vauxhall Motor Works manufacturing area and no tanks are shown on the historical maps. Therefore, it is not anticipated that significant contamination is likely to be present within this area but there may be occasional areas of localised contamination from the historical uses of the site.

Area E

8.3.19 The site was not shown as developed until 1941 when earthwork mounds were shown on-site, although the purpose of these is unknown. Several structures are present on the 1947 mapping, with the earthwork platforms shown on 1960s mapping.

8.3.20 The earthworks platform was constructed during the 1940s from material of unknown origin or quality, therefore, there is the potential for this material to be a source of contamination. It is not anticipated that significant contamination is likely to be present within this area but there may be occasional areas of localised contamination associated with the fill material used for earthworks and its recent use for car parking.

9 CONCEPTUAL SITE MODEL AND PRELIMINARY RISK ASSESSMENT

9.1 UK framework

9.1.1 Current UK guidance recommends a phased risk-based approach to the assessment of soil contamination, based on the developing and updating of a conceptual site model (CSM). The current best practice for risk assessment methodology is detailed in the Environment Agency's Land Contamination Risk Management Guidance (Ref. 1). This process starts with Stage 1: Risk assessment which comprises; a Preliminary Risk Assessment, this can be followed by a GQRA if identified as required in the PRA and potentially a DQRA depending on the findings of the GQRA.

9.1.2 The CSM is a representation of the relationships between possible contaminant sources, pathways and receptors to support the identification and assessment of potential contaminant linkages (PCL) and an assessment of known contaminant linkages, where identified from existing information. The model comprises identification of:

a. **Sources:** the key pollutant hazards associated with the site;

b. **Receptors**: the key targets at risk from the sources; and

c. **Pathways**: the means by which the contaminant can cause harm to the receptor.

9.1.3 All three elements must be present for a potential risk to exist.

9.1.4 Where PCLs are identified, a preliminary risk assessment is carried out to assess the likelihood that each potential linkage exists and to decide whether these pose potentially unacceptable risks to identified receptors and require further assessment. The potential risk of each PCL has been based on consideration of:

a. **The likelihood of an event (probability)** – takes into account both the presence of the hazard and receptor and the integrity of the pathway; and

b. **The severity of the potential consequence** – takes into account both the potential severity of the hazard and the sensitivity of the receptor

9.1.5 The risk has been classified using the categorisation and description of risk levels in **Table 9.1** and **Table 9.2,** taken from NHBC (Ref. 3).

Table 9.1: Categorisation of risk

probability (Likelihood)		Consequence			
		Severe	Medium	Mild	Minor
	High likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low Likelihood	Moderate risk	Moderate/ Low risk	Low risk	Very low risk
	Unlikely	Moderate/ Low risk	Low risk	Very low risk	Very low risk

Table 9.2: Description of risk levels

Terms	Description
Very high risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without appropriate remediation action
High risk	Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remediation action
Moderate risk	It is possible that without appropriate remediation action harm could arise to a designated receptor. It is relatively unlikely that such harm would be severe, and if any harm were to occur it is more likely that such harm would be relatively mild.
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard. It is likely, that if any harm was realised any effects would be mild.
Very low risk	The presence of an identified hazard does not give rise to the potential to cause harm to a designated receptor.

9.2 Preliminary risk assessment

9.2.1 The Proposed Development options have been outlined in **Section 4**. A risk assessment and conceptual site model (CSM) have been prepared for each area based on potential contamination sources and development proposals. The assessment of risk draws upon the information and conclusions of previous reports, as detailed in **Section 5.**

9.2.2 It is assumed that site conditions on Area C will be similar in nature to those recorded in Area B as currently no intrusive investigation has been completed in this area. It also considers the anticipated earthworks/construction methodology e.g. large-scale earthworks/piled foundations, as applicable, to the area in question.

9.2.3 The outline CSM developed for each area and the PRA of each PCL are presented in **Appendix H.**

9.3 Summary of potential contaminant linkages (PCLs)

9.3.1 The PRA identified a large number of PCLs, some of which require further detailed assessment. A summary of the PCLs identified as moderate to high risk requiring further assessment is provided in

Table 9.3**.**

9.3.3 **Appendix H** should be consulted for a full list of PCLs and qualitative assessment of the risks.

Table 9.3: Summary of Moderate to High Risk PCLs

Area	Proposed Development	Receptor	Potential Contaminant Linkage (PCL)	Qualitative Assessment of Risk
Existing Airport Land	Minor improvements to the existing terminal. New apron and stands. Construction of technical building. Section of DART extension. Relocation of the fire training ground with its associated facilities to the south of the runway. Rainwater harvesting tanks and emergency water supply tanks.	Human health	Inhalation of airborne contaminants by construction workers from Made Ground during construction	Moderate
			Deep excavations impact UXO with risk to construction workers, public/terminal buildings	Moderate
		Buildings/ Infrastructure	Direct contact with contaminated soils/ groundwater	Moderate
LLAOL Contractor's Compound	Apron, piers and stands, taxiways	Human health	Inhalation of airborne contaminants by construction workers from Made Ground during construction works.	Moderate
			Installation of piles impact UXO with	High

Area	Proposed Development	Receptor	Potential Contaminant Linkage (PCL)	Qualitative Assessment of Risk
			risk to construction workers/public/airport operatives	
Airport Access Road	Construction of a new access road	Human health	Direct contact with Made Ground e.g. dermal, and/or accidental ingestion by construction workers.	Moderate
			Inhalation of airborne contaminants by construction workers from Made Ground during construction	Moderate
		Infrastructure	Direct contact with contaminated soils/ groundwater	Moderate
Area A – Former Landfill	**<u>North</u>** Ancillary airport developments including technical services building New Century Park development includes: Buildings such as offices and hotel. Car parking, new road infrastructure and landscaping.	Human Health	Migration of ground gases from former landfill into future development	Very High
			Migration offsite to adjacent residential properties/ existing airport buildings of ground gases from former landfill through preferential pathways	Moderate
			Inhalation of airborne contaminants by adjacent site users (e.g. residential housing, existing Luton Airport) from Made Ground/Former Landfill during	High

Area	Proposed Development	Receptor	Potential Contaminant Linkage (PCL)	Qualitative Assessment of Risk
			construction works.	
	South A new terminal building Apron, piers, stands and taxiways Extension to the Luton DART to the new terminal and new station		Inhalation of airborne contaminants by construction workers from Made Ground/Former Landfill during construction works.	Moderate
			Driving of piles impact UXO with risk to construction workers/public/ airport operatives	High to Moderate
		Controlled waters	Driving of contaminants downwards to Principal Chalk Aquifer during any future piling	Moderate
			Migration of contaminants via preferential pathways to Principal aquifer	Moderate
			Lateral migration of contaminants in groundwater to controlled waters	Moderate
		Buildings	Direct contact with aggressive ground conditions	Moderate
Area B – Land West of Winch Hill	No Moderate to High Risk PCLs			
Area C – Land East of Winch Hill	No Moderate to High Risk PCLs			

Area	Proposed Development	Receptor	Potential Contaminant Linkage (PCL)	Qualitative Assessment of Risk
Off-site Car Parks				
Area D - Off-site Car Park North	Car park	Human health	Inhalation of airborne contaminants by construction workers from Made Ground during construction works	Moderate
		Controlled waters	Leaching of contaminants in soil to Principal Chalk Aquifer	Moderate
		Infrastructure	Direct contact with contaminated soils/ groundwater.	Moderate

Area	Proposed Development	Receptor	Potential Contaminant Linkage (PCL)	Qualitative Assessment of Risk
Area E – Off-site Car Park South	Multi-storey Car park	Human health	Inhalation of airborne contaminants from Made Ground by construction workers from Made Ground during construction works	Moderate
		Controlled waters	Leaching of contaminants in soil to Principal Chalk Aquifer.	Moderate
			Driving of contaminants downwards to Principal Chalk Aquifer during any future piling in soils and groundwater	Moderate
		Infrastructure	Direct contact with contaminated soils/ groundwater	Moderate
Off-site Sources				
All areas of Proposed Development		Controlled waters	Lateral migration of contamination in groundwater onto site from off-site sources	Moderate

10 CONCLUSIONS AND RECOMMENDATIONS

10.1 Conclusions

10.1.1 A desk-based assessment of the potential risks associated with the Proposed Development has been undertaken using a range of data sources including historical information, regulatory database and findings of previous ground investigations and quantitative risk assessment. The current masterplan for the Proposed Development is a two-terminal solution, which will include the creation of a second terminal, extension to the existing apron and relocation of car parking to the east and north of the new terminal building. This will involve extensive earthworks and re-engineering of a section of former landfill which is present adjacent to the existing airport.

10.1.2 A summary of all PCLs identified is presented in **Appendix H** and the conclusions are provided below for each area.

Existing Airport Land

10.1.3 The existing airport is currently occupied by the existing terminal, stands, aprons, taxiways, hangars, runway and car parking. The proposed works are to upgrade the existing building and construct a new apron and stand and a section of the DART extension, the fire training ground will be relocated from the LLAOL Contractor's Compound to the south of the runway. New rainwater harvesting tanks will be installed and emergency water supply tanks at various locations.

10.1.4 Previous GI and assessments as summarised in

Table 5.6 indicate the following:

a. Site investigations have not identified any substantial contamination sources and no remediation works have been undertaken.

b. Overall the GI results show low levels of contaminants in the Made Ground soils which present low risk to site users.

c. GI data does not indicate any elevated ground gases within this area suggesting that migration of gases from the former landfill to this area is not occurring.

d. Elevated concentrations of hydrocarbons, metals and pesticides above relevant standards were noted beneath existing airport in the groundwater.

e. The Proposed Development includes relocation of the existing fire training ground, to a new location south of the airport runway and taxiways. No previous GIs have been undertaken in the area, however the information gathered for the PRA indicates there to be unlikely to be contamination in this area and the potential risk would be low.

10.1.6 On this basis the contamination potential associated with the Existing Airport Land has been given a risk rating of **low** to **moderate**.

LLAOL Contractor's Compound

10.1.7 This area is currently the airport fire training ground and an area used by LLAOL contractor as a compound area for storage of various items, including construction arisings from Terminal 1 improvements. In the south of this area is the existing airport soakaway (central soakaway).

10.1.8 This area will form part of the airport airside expansion including new apron, piers and stands, attenuation tank and emergency water supply tank.

10.1.9 The preliminary risk assessment has identified that overall potential contamination in this area presents a **low** to **moderate/low** risk to the Proposed Development for the following reasons:

a. The ground investigation results to date suggest low levels of contaminants which present little risk to future site users;

b. Some ACMs were identified within stockpiled materials which will require management during earthworks;

c. Slightly elevated concentration of ground gases were noted during the Structural Soils 2017 GI, where a significant thickness of Made Ground is present. The concentrations were not considered to present a risk to future development. Further, all Made Ground is to be excavated and treated for reuse, any unsuitable materials which could present a gas source will be removed i.e. wood;

d. Verification of the materials will be required in these areas when they are excavated prior to reuse; and

e. There is likely to be low risk to future users given that this area will be covered with hardstanding and will largely be an earthworks platform formed from clean natural materials.

10.1.10 A **moderate** risk has been identified to construction workers which will require mitigation through adopting good site practices and use of PPE.

Airport Access Road

10.1.11 The link road includes section of new build and upgrading of existing road, the earthworks are likely to generally be limited to shallow excavations but will include deeper cuttings and construction of embankments as the road will be constructed up from existing ground levels.

10.1.12 The new build sections will pass through industrial land and an undeveloped area which was previously a sewage works.

10.1.13 The assessment of GI data for the eastern section which crosses Area A and B has been assessed as part of these areas. The GI completed across the central and western section requires a formal risk assessment and a generic assessment is included in the GQRA, on this basis current risk assessment indicates **low** to **moderate** risk.

10.1.14 Asbestos has been identified which will require further assessment and appropriate controls during groundworks.

Area A - Former Landfill

10.1.15 This area currently comprises public open space (WVP), a CWS is located in the southern area. The Long-Term Car Park for Luton Airport is present in the west of the area and the northwest is another car park (operated by TUI).

10.1.16 The north of this area is proposed to be redeveloped for NCP including buildings such as offices, hotels, car parking, associated new road infrastructure and landscaping. The southern part of this area will form part of the airport expansion including a new terminal building, apron, piers, stands, taxiway, extension to the DART to the new terminal and new station.

10.1.17 The review of desk study information indicated the main area of potential contamination within the Proposed Development is the former Eaton Green landfill. A significant part of the Proposed Development will be within this area including the new terminal building.

10.1.18 The PRA has identified a number of PCLs that require further assessment as follows:

Human health

10.1.19 Analysis within previous reports of the GI results to date suggest the chemistry of the landfill presents a low risk to future site users assuming a clean cover system to remove potential pathways. This is assessed further in the GQRA (Ref. 67) and DQRA for human health (Ref. 68).

10.1.20 ACMs were noted within the former landfill, however, no significant accumulations were encountered. Further assessment will be required of the most recent GI data to understand the potential risk in relation to the construction works and land use scenarios associated with the proposed airport expansion.

Controlled waters

10.1.21 Overall, the groundwater monitoring data which has been previously assessed as part of the Arup NCP QRA (Ref. 50) provides little evidence that the landfill is causing significant contamination of the groundwater. This suggests that, providing appropriate mitigation techniques are used during construction to prevent downward migration of contaminants, it is unlikely that the new development will result in significant contamination of the groundwater.

10.1.22 Leachate and groundwater monitoring results from the recent GI require further detailed assessment to confirm the initial findings from the Arup NCP QRA.

Ground gas

10.1.23 Within the area of the former landfill a significant amount of monitoring has been undertaken, including:

- Twelve months' worth of spot gas monitoring (i.e. levels measured at monthly intervals from boreholes);

- Continuous gas monitoring in five boreholes across the landfill during the recent GI (which have taken continuous readings over a 3-month period) ; and
- Samples of bulk and trace gases to determine the constituents and volumes of gases within the landfill.

10.1.24 The preliminary assessment (Ref. 50) indicated elevated concentrations of methane and carbon dioxide but low flow rates. Overall the measurements typically indicated CS2 or CS3 scenario with CS4 encountered on one occasion. The spot monitoring readings are generally consistent with an ageing landfill which is not generating significant volumes of gas. However, it is considered likely that any future development will require gas protection measures. Currently there is no indication of significant off-site migration of landfill gases.

10.1.25 Further detailed assessment is required to understand the gassing conditions after work is undertaken to remodel the landfill. The gas management measures will need to be integrated with the geotechnical and structural design of the buildings and pavements, and with the requirement to minimise surface water infiltration into the underlying waste.

Geotechnical

10.1.26 A risk to buried structures (foundations, services) from aggressive ground conditions and landfilled wastes/leachates in Area A have been identified, which can be addressed by appropriate design to select suitable foundation materials/concrete classification. Further physical conditions likely to present a potential risk to any development, include large obstructions, settlement, and solution features, also require assessment.

Area B (Land West of Winch Hill)

10.1.27 This area is currently largely undeveloped, with the northwest part of this area forming part of WVP. Within this area is a community centre, skateboard park, children's playground and allotment gardens as well as public open space, scrub and woodland areas. The rest of the area comprises agricultural land with a coppice and small woodland in the south, designated as ancient woodland. Winch Hill Fam and New Winch Hill Cottages are located on the eastern boundary on Winch Hill Lane.

10.1.28 As part of the redevelopment proposals the existing WVP community centre and allotment gardens will be retained. In the remaining part of the area it will be car parking, fuel farm and fuel pipeline, water treatment plant, infiltration tank and relocated parkland.

10.1.29 Potential for contamination in groundwater to impact the Principal aquifer has been identified as a Moderate/Low risk which has been further assessed in the detailed risk assessment (Ref. 69). However, overall the PRA has identified that overall potential contamination in this area presents a **very low to low risk** to the Proposed Development for the following reasons:

a. The site has no previous significant contaminative uses based on the review of available information;

b. The GI results to date suggest low levels of contaminants across Area B (Ref. 46) which present little risk to future site users;

c. Groundwater analysis undertaken within Area B indicated exceedances of generic screening criteria for some contaminants in the groundwater; iron, manganese, ammoniacal nitrogen, nitrate, nitrite. Although elevated levels of ammoniacal nitrogen, nitrate and nitrite could indicate the presence of landfill leachate break-out, these determinants can also occur naturally, associated with agricultural land uses. Further assessment of the potential impacts from the former landfill in area A on other areas of the Proposed Development is required;

d. GI data to date does not indicate any elevated ground gases within this area, suggesting there is no source of ground gas and migration of gases from the landfill to this area is not occurring. However, care should be taken during the design and construction phases of the development to ensure that no preferential pathways are created from Area A; and

e. Area B will be a key area for site won materials for the Proposed Development. The sampling undertaken to date is considered sufficient to broadly characterise the soil and groundwater conditions to inform the excavation and reuse of the material.

Area C (Land East of Winch Hill)

10.1.30 This area is currently predominately arable land with some hedgerows/trees.

10.1.31 The area will be used for the creation of an infiltration basin (below ground infiltration tank), fuel connection pipeline and replacement open space.

10.1.32 Area C has no known previous significant contaminative uses based on the review of available information. The site is considered greenfield and has only ever been agricultural land. The preliminary risk assessment has identified that overall potential contamination in this area presents a **very low to low risk**.

Off-site Car Parks – Areas D and E

10.1.33 Area D is currently partly occupied by a trailer park and car parking with a small area used for servicing cars. Area E was most recently used for car parking and storage of construction materials. Part of the site is covered with hardstanding and two unidentified structures are also present associated with the site's previous use by Vauxhall Motors.

10.1.34 Both Areas D and E are proposed to be redeveloped for off-site airport car parking, including a multi-storey car park in Area E.

10.1.35 The PRA has identified that overall potential contamination in this area presents a **low to moderate** risk to the Proposed Development for the following reasons:

a. GI has not been undertaken within these areas, however, fill of unknown quality has been used to create earthworks platforms at these sites. A review of the desk study information suggests that ground conditions may be similar to the surrounding areas. It is not anticipated that significant contamination is likely to be present within these areas but there may be

occasional areas of localised contamination from the historical uses of the sites.

b. These areas are proposed to be off-site car parking and therefore will be largely hardstanding. The presence of hardstanding will prevent future users coming into contact with potential contaminants in the underlying soils.

Off-site planting

10.1.36 Hedgerow enhancements are proposed for the Off-site Planting areas which currently comprise of open fields and existing woodland. The PRA has not identified any PCLs in this area**.**

Off-site highway interventions

10.1.37 No GI has been completed in the Off-site Highway Intervention areas, the desk study information indicates there is unlikely to be significant contamination present and given the proposed earthworks and continued use as highways the overall risk to future site users is assessed as **very low** to **low**.

Further work required and recommendations

10.1.38 **Table 10.1** has recommendations based on the findings of the assessment.

Table 10.1: Recommendations and further work

Area	Further work/recommendations
Existing Airport Land	No further GI or risk assessment is required for the contaminated land assessment but may be required to inform detailed design. a. The overall risk of contamination has been determined as low to moderate. b. Risks identified can be addressed at detailed design stage with additional testing of materials and employment of mitigation and control measures during construction including adherence to a Construction Code of Practice (CoCP). c. Additional GI is recommended to cover the areas of proposed earthworks to reduce the uncertainty identified in the CSM for the detailed design. d. An assessment of aggressive ground conditions in accordance with BRE SD1 (Ref. 78).
LLAOL Contractor's Compound	No further GI or risk assessment is required for the contaminated land assessment but may be required to inform detailed design. a. Risks identified can be addressed at detailed design stage with additional testing of materials and employment of mitigation and control measures during construction including adherence to a Construction Code of Practice (CoCP). b. Construction works should include measures to ensure that preferential pathways for gases from the landfill are not created, as well as to detect, and if necessary treat, any existing features such as

Area	Further work/recommendations
	drains and other utilities that might be providing a preferential pathway for gases from the former landfill in Area A. Verification of soils will be required prior to reuse.
Airport Access Road	Further risk assessment is required a. The overall risk of contamination has been determined as Low to Moderate. b. The results from previous investigations should be assessed and summarised to inform risk to human receptors and controlled waters. c. Additional GI will required to address some of the contamination sources identified which have not been addressed by the GIs to date and to obtain information on the leachability of the soils, with regard to proposed infiltration drainage, see below. This should be completed prior to construction. d. It is recommended that Geoenvironmental input is sought for the drainage strategy to manage the risks of positive drainage interacting with contaminated material affecting the underlying aquifer. The eastern section of the Airport Access Road has been considered within the remedial strategy developed for Area A.
Area A – Former Landfill	Further risk assessment is required including: a. Detailed assessment of the 2018/2019 investigation, see GQRA (Ref. 67) and DQRAs (Ref. 68)(Ref. 69). b. Detailed assessment to understand the gassing conditions after work is undertaken to remodel the landfill. including a gas assessment to understand the future gas generation. c. Detailed consideration of the gas management measures for the Proposed Development buildings. d. Complete full characterisation of the landfill waste based on the additional data gathered during the recent 2018/2019 GI which informs the detailed assessment of the potential risks to groundwater and also to determine the potential for reuse of material. e. Development of remedial strategy for the re-engineering of the former landfill material to ensure that the potential risks associated with this material are assessed and controlled as to not present a risk to controlled waters or future users of the site. f. Reassessment of geotechnical risks to finalise any ground improvement techniques/foundation design prior to construction and used to further develop the earthworks strategy for the developments. g. No additional GI is recommended for this area.

Area	Further work/recommendations
Area B	No further GI or risk assessment is required for the contaminated land assessment but may be required to inform detailed design. a. Construction works should include measures to ensure that preferential pathways for gases from the landfill are not created, as well as to detect, and if necessary treat, any existing features such as drains and other utilities that might be providing a preferential pathway for gases from the former landfill in Area A.
Area C	No further GI or assessment required.
Area D - Off-site Car Park North	No further GI or risk assessment is required for the contaminated land assessment but may be required to inform detailed design. a. The overall contamination risk is generally assessed as low to moderate, detailed assessment of risks is not required at this stage in the application for development consent. b. No significant contamination anticipated but GI should be undertaken prior to construction to confirm verify existing mitigation requirements and design measures.
Area E – Off-site Car Park South	No further GI or risk assessment is required for the contaminated land assessment but may be required to inform detailed design. a. The overall risk contamination is assessed as low to moderate, detailed assessment of risks is not required at this stage in the application for development consent. b. No significant contamination anticipated but GI should be undertaken prior to construction to confirm verify existing mitigation requirements and design measures.
Off-site Planting	No further GI or assessment required.
Off-site Highway Interventions	No further GI or risk assessment is required for the contaminated land assessment but may be required to inform detailed design. a. The overall risk for the Off-site Highway Interventions has been determined as Very Low to Low as the majority of the sites have shown little historical development. Furthermore, the works proposed are limited to the existing carriageways. b. However, breaking of hardstanding for the works is likely to expose Made Ground. Further GI would inform risk to construction workers who have been identified as the main receptors. c. An earthworks strategy should be developed detailing the removal, handling, storage and placement of soils for these areas. This strategy should form part of the Draft Code of Construction Practice (COCP).

Other risks

10.1.39 The risks from UXOs are considered very high in Areas A and LLAOL Contractor's Compound based on a detailed UXO assessment (Ref. 79), Luton airport had a significant role in World War II and therefore potential UXO risks are expected. The risks can be mitigated by following best practice guidance on UXOs (Ref. 79 Ref. 80), site briefings, additional surveys and a watching brief in areas identified as having the potential for high risk of UXO identified from risk assessments undertaken to date. Further UXO desk based assessment will be required for Areas D and E prior to construction works since these are not currently covered by an assessment.

10.1.40 Water supply pipes are likely to be included as part of the scheme and a UKWIR assessment should be undertaken to ensure that pipe selection is suitably protective to prevent chemical attack and ingress of contaminants.

10.1.41 Ecological risks have been identified in the form of invasive plant species Area A. Further ecological risks should be considered over currently undeveloped areas: Areas B, C and parts of LLAOL Contractor's Compound and Areas D and E.

10.1.42 Construction workers have a high likelihood of coming into contact with contaminants in the Made Ground and landfill material. The potential risks can be reduced and or avoided through good construction site practices, method statements and safe systems of working, including high standards of hygiene and use of appropriate Personal Protective Equipment (PPE).

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FIGURES

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Œ 2SHQ6WUHHW0DS DQG FRQWULEXWRUV &&%< 6$

Œ 2SHQ6WUHHW0DS DQG FRQWULEXWRUV &&%< 6$

Œ 2SHQ6WUHHW0DS DQG FRQWULEXWRUV &&%< 6$

/XWRQ 5LVLQJ
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Our community.
Our planet.

/XWRQ +DUH +RXVH %XVLQHVV .LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQJ

/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH

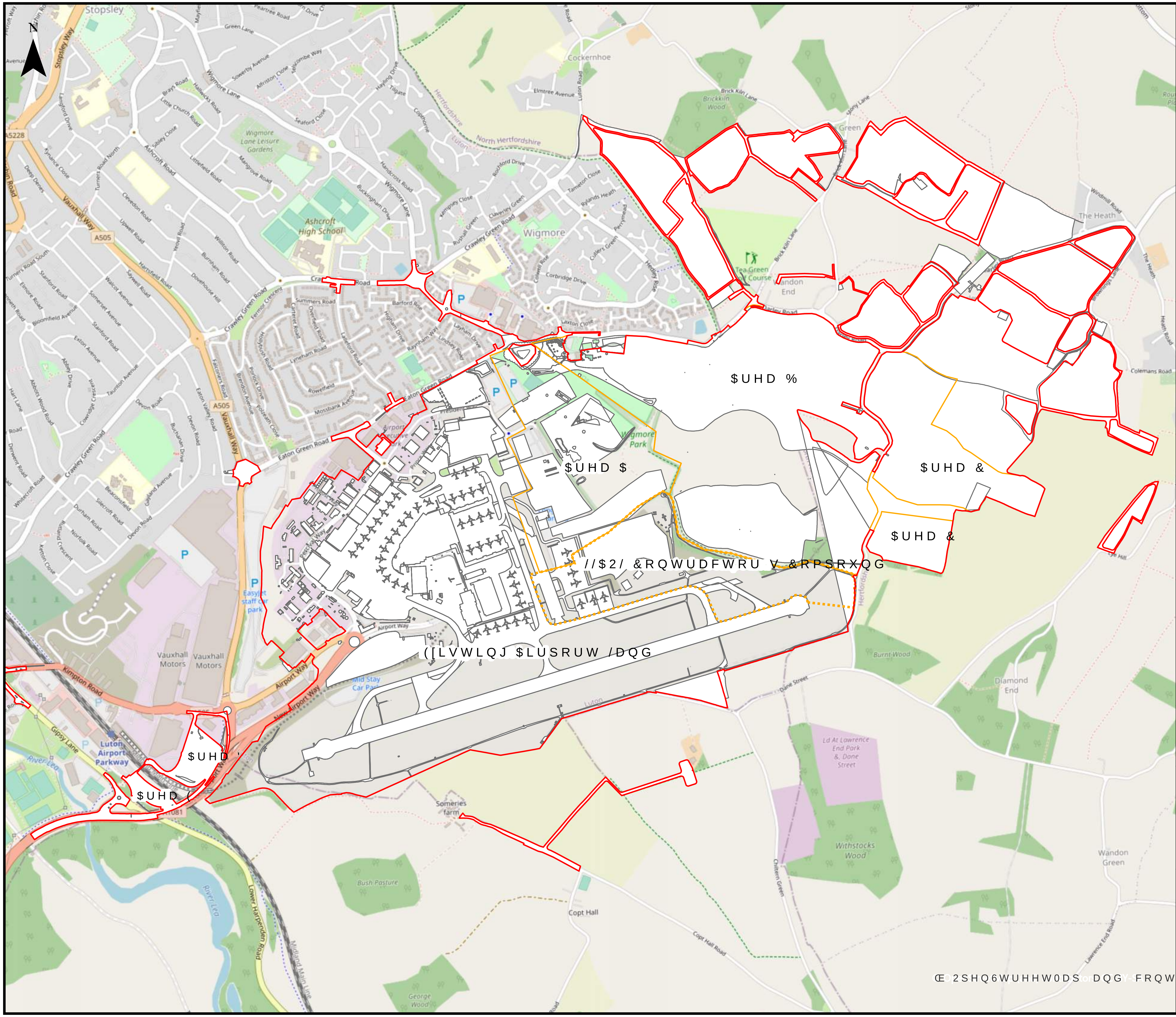
)LJXUH
/RFDWLRQ RI 3URSRVHG 'HYH

3XUSRVH RI LVVXH				6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21				6
'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$

'&2 $SSOLFDWLRQ 5HI 75 /RFDWLRQ 5HI

'UDZLQJ 1XPEHU //$'&2 & $53 '5 <(3

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW



7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SUR
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSPHQW %

6LWH 6XEGLYLVLRQV

6FKHPH /D\RXW PSSD

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

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/XWRQ 5LVLQJ
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQJ

/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH

)LJXUH D
3URSRVHG 0DVWHUSODQ 3

3XUSRVH RI LVVXH: 68,7$%/( )25 ,1)250$7,21 | 6XLWDELOLW\

'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]
$%	5%	7%			$

'&2 $SSOLFDWLRQ 5HI | 5HJXODWLRQ 5HI | 'RFXPHQW 5HI
75

'UDZLQJ 1XPEHU: //$'&2 & $53 '5 <(| 5HYLVLRQ 3

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SU
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSPHQW %

6LWH 6XEGLYLVLRQV

6FKHPH /D\RXW PSSD

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//$/ &RQWUDFWRU V &RPSRXQG

([LVWLQJ $LUSRUW /DQG

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Œ 2SHQ6WUHHW0DS DQG FRQWULEXWRUV

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

/XWRQ $LUSRUW
+DUW +RXVH %XVLQHVV
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQJ

/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2U

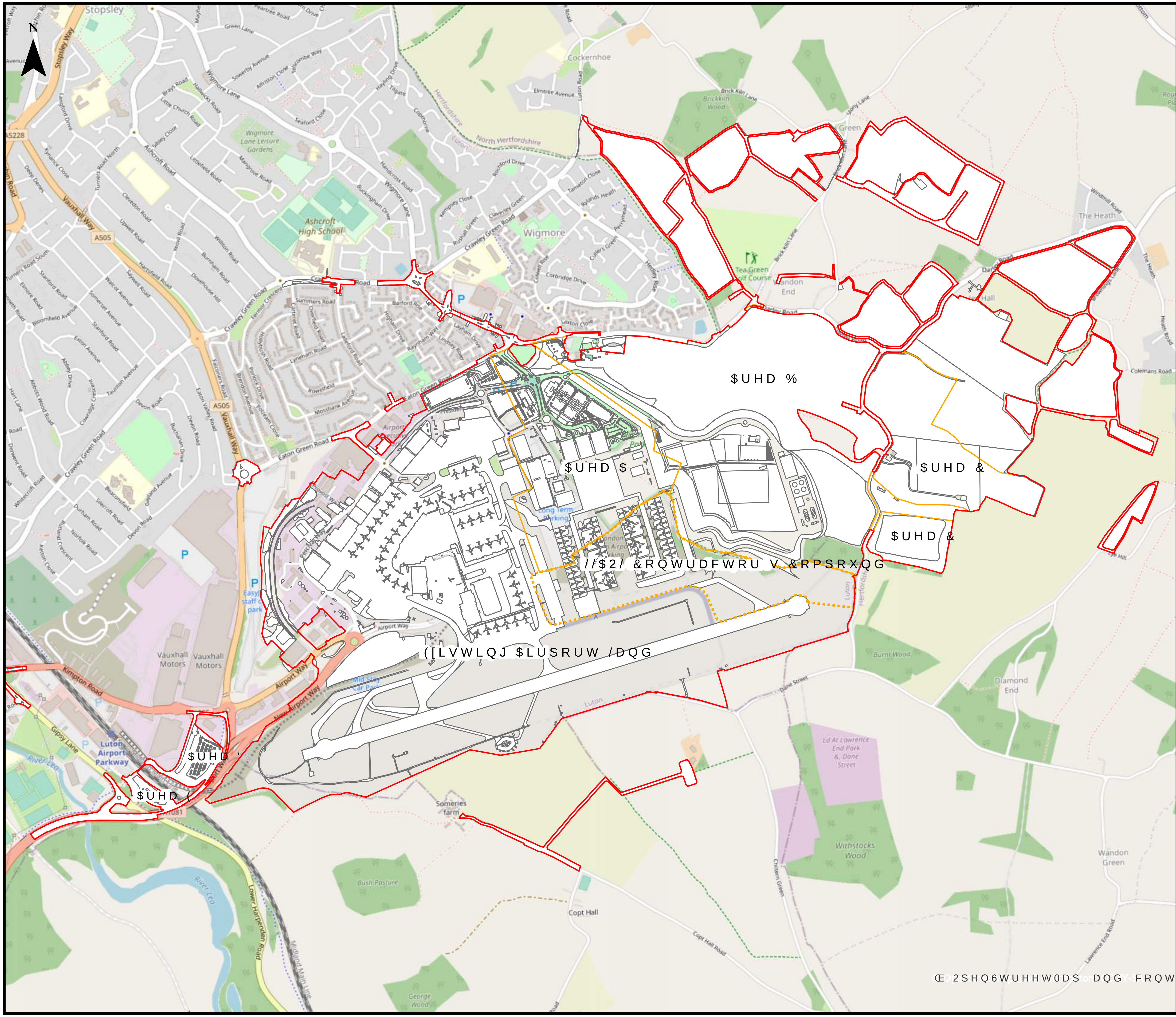
'UDZLQJ 7LWOH

)LJXUH E
3URSRVHG 0DVWHUSODQ 3K

3XUSRVH RI LVVXH				6XLWDELOLW\	
68,7$%/( )25 ,1)250$7,21					
'UDZQ	&KHFNHG	$SSURYHG	DWH	6FDOH	6L]H
$%	5%	7%			$
'&2 $SSOLFDWLRQ 5HI		5HI		75	

'UDZLQJ 1XPEHU
//$'&2 & $53 '5 <(3

3URMHFW	3KDVH	2ULJLQDWRU	$VVHW =RQH	6XE $VVHW



7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ RI
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSPHQW %

6LWH 6XEGLYLVLRQV

6FKHPH /D\RXW PSSD

)LUVW ,VVXH	$%	5%	7%	3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG	$SSURYHG	'DWH	5HY

/XWRQ 5LVLQJ
+DUW +RXVH %XVLQHVV
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQJ

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/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2UGHU

'UDZLQJ 7LWOH
)LJXUH F
3URSRVHG 0DVWHUSODQ

3XUSRVH RI LVVXH
68,7$%/( )25 ,1)250$7,21

6XLWDELOLW\

'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$

'&2 $SSOLFDWLRQ 5HI
75
$33 5HIHUHQFH
'&2 'RFXPHQW 5HI

'UDZLQJ 1XPEHU
//$'&2 & $53 '5 <(
5HYLVLRQ
3
3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

Œ 2SHQ6WUHHW0DS DQG FRQWULEXWRUV && %< 6$

7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SU
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

- 3URSRVHG 'HYHORSPHQW %
- 2II VLWH 3ODQWLQJ
- $LUSRUW $FFHVV 5RDG
- 6LWH 6XEGLYLVLRQV

0DLQ $UHD RI 1HZ 'HYHORS

- ([LVWLQJ $LUSRUW /DQG
- //$2/ &RQWUDFWRU V &RPS
- $UHD $)RUPHU /DQGILOO
- $UHD % /DQG :HVW RI :LQF
- $UHD & /DQG (DVW RI :LQF

2WKHU $UHDV

- $UHD ' 2IIVLWH &DU 3DUN
- $UHD (2IIVLWH &DU 3DUN
- 2II VLWH +LJKZD\ ,QWHUY

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

$UHD $

$UHD %

$UHD &

$UHD &

//$2/ &RQWUDFWRU V &RPSRXQG

([LVWLQJ $LUSRUW /DQG

$UHD '

$UHD (

+LWFKLQ -XQFWLRQV

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/XWRQ 5LVL
+DUW +RXVH %XLOGL
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQ

/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH

)LJXUH
6LWH $UHDV

3XUSRVH RI LVVXH	6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21	6

'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$

5HY	'HVFULSWLRQ	'DWH
	5HYLVLRQ 1RWHV	

'UDZLQJ 1XPEHU	5HYLVLRQ
//$'&2 & $53 '5 <(3	

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

:LJPRUH 9DOOH\ &RPPXQLW\ &HQWUH

$LUFUDIW +DQJDUV

9DX[KDOO 0RWRU :RUNV

$UDEOH /DQG

:RRGODQG

//$2/ &RQWUDFWRU &RPSRXQG

$LUSRUW 5XQZD\ DQG 7D[LZD\V

$LUSRUW 7HUPLQDO %XLOGLQJV

5LYHU /HH

7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SU
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

- 3URSRVHG 'HYHORSPHQW %
- 6LWH 6XEGLYLVLRQV

&XUUHQW /DQG 8VH

- &DU 3DUNLQJ
- &RPPHUFLDO ,QGXVWULDO
- '$57 &RQVWUXFWLRQ $UHD
- '$57 &RQWUDFWRU V &RPSR
- (DWRQ *UHHQ 7LG\ 7LS
-)LUH 7UDLQLQJ $UHD
- :LJPRUH 9DOOH\ 3DUN
- //$2/ &RQWUDFWRU FRPSRX
- 7UDLOHU 3DUN &DU 3DUNL
- :RRGODQGV
- 2II VLWH +LJKZD\ ,QWHUY
- 8QGHYHORSHG /DQGVFDSH
-)XHO 'HSRWV
- ([LVWLQJ 5DLOZD\

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

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/XWRQ $LUS
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQ

/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH

)LJXUH
&XUUHQW /DQG 8VHV

3XUSRVH RI LVVXH				6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21				
'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$
'&2 $SSOLFDWLRQ 5HI 75		5HI			

'UDZLQJ 1XPEHU 5HYLVLRQ
//$'&2 & $53 '5 <(3

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

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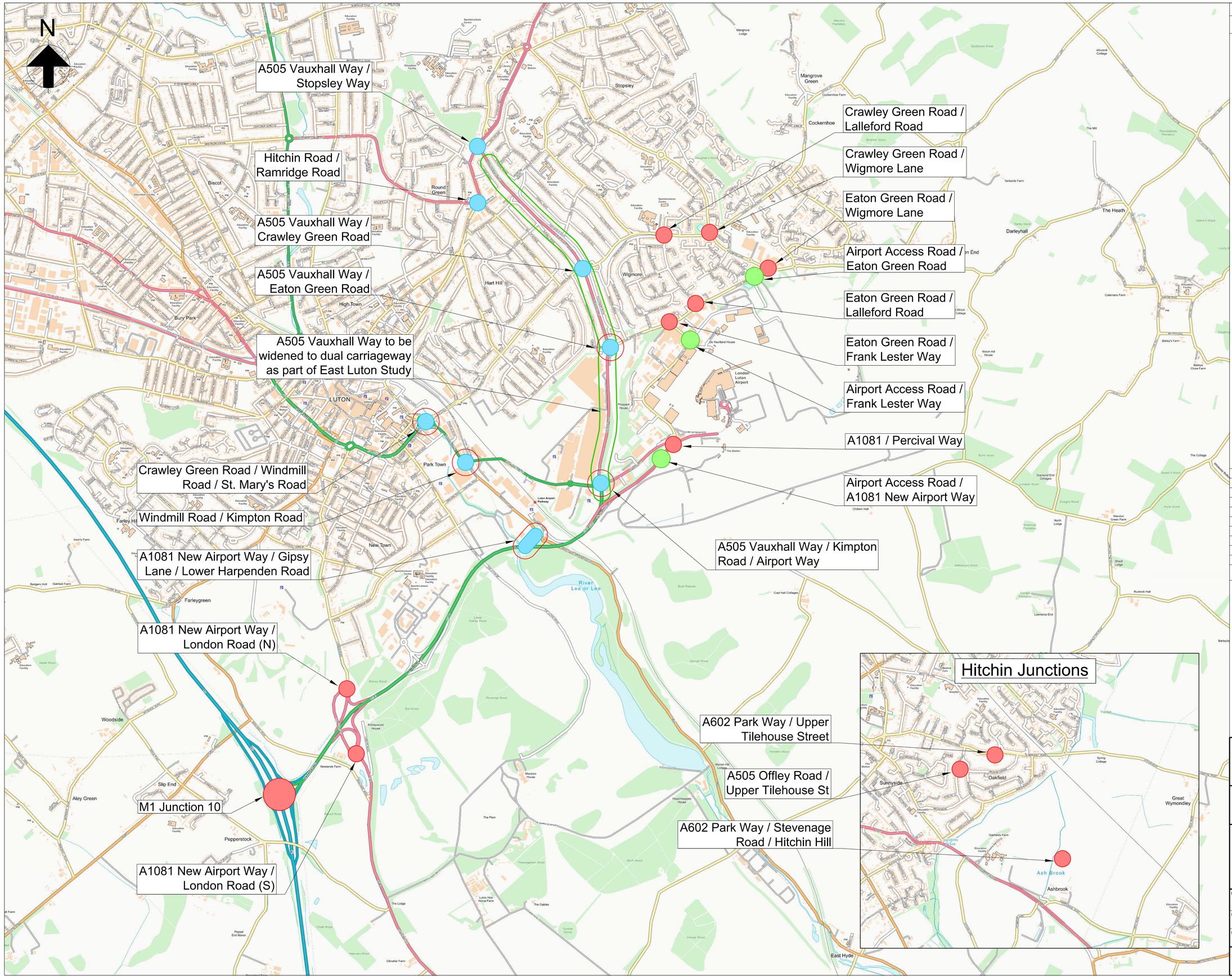

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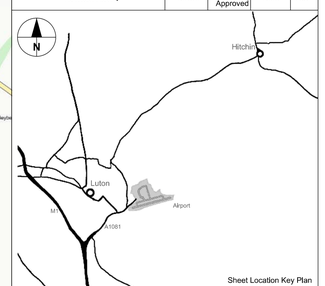
All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

Legend

- Junctions requiring mitigation
- Junctions forming part of East Luton Study
- East Luton Study junctions requiring additional mitigation
- New / improved junctions to be provided as part of Airport Access Road

Revision History	Drawn	Checked Approved	Date	Rev.
Issue	IJ	RB TB	16/12/21	P01



Sheet Location Key Plan

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Luton Rising
Hart House Business Centre
Kimpton Road, Luton, LU2 0LA
www.lutonrising.org.uk

London Luton Airport Development Consent Order

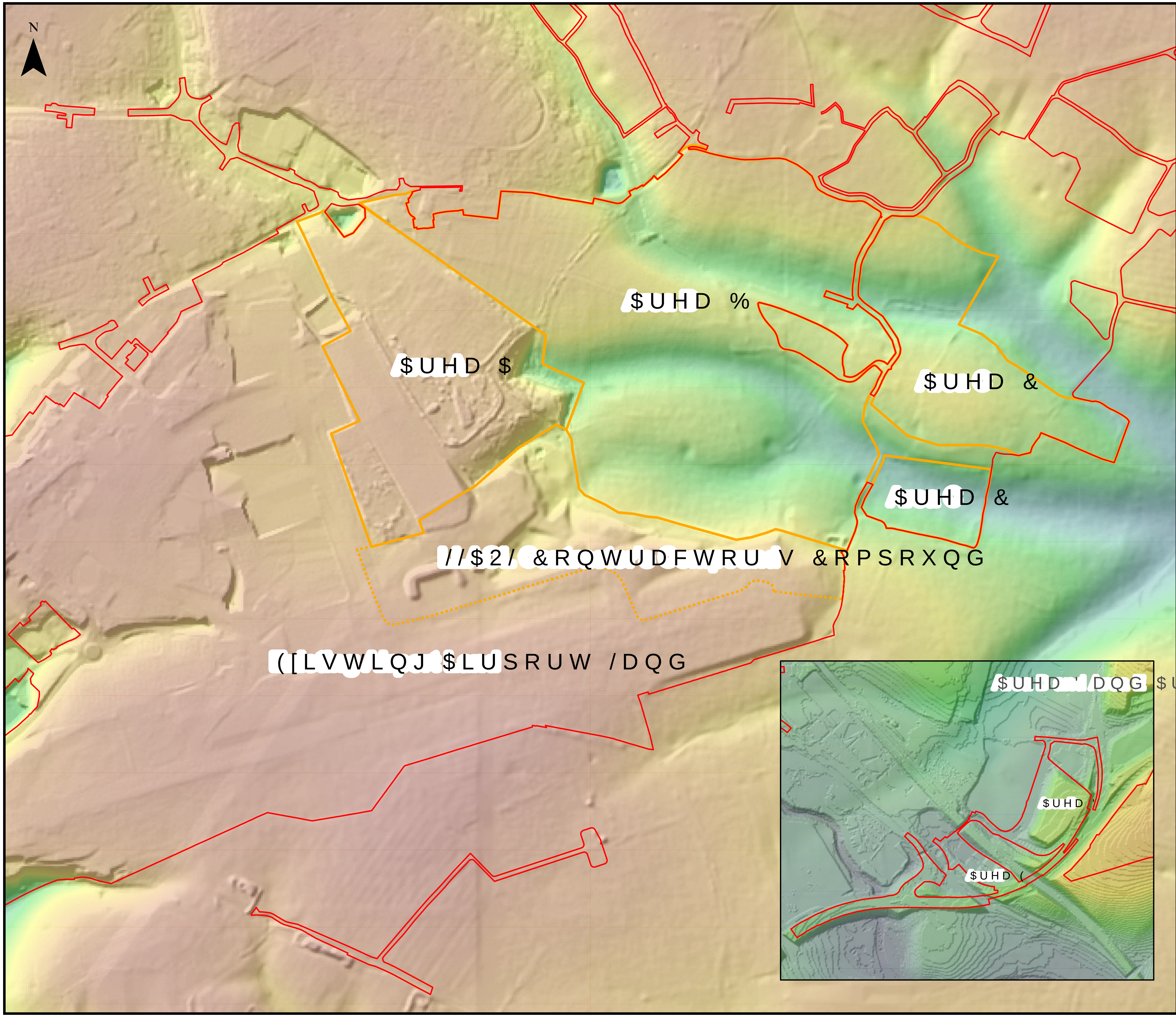
Drawing Title

Figure 05
Highway Interventions

Purpose of issue				Suitability	
SUITABLE FOR COORDINATION				S2	
Drawn	Checked	Approved	Date	Scale	Size
IJ	RB	TB	16/12/21	1:12500	A1
DCO Application Ref.	APFP Regulation		DCO Document Ref.		
TR020001					

Drawing Number: LLADCO-3C-ARP-00-00-DR-YE-0135 — Revision: P01

Project – Phase – Originator – AssetZone – Sub Asset – Type – Disco. – Number



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+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SUH
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSPHQW %
6LWH 6XEGLYLVLRQV
7RSRJUDSK\
+LJK P2'
/RZ P2'

)LUVW ,VVXH	$%	5%	7%	3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG	$SSURYHG	'DWH	5HY

Œ 2SHQ6WUHHW0DS
FRQWULEXWRUV

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/XWRQ 5LVL
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQJ

/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2UGHU

'UDZLQJ 7LWOH
)LJXUH
7RSRJUDSK\

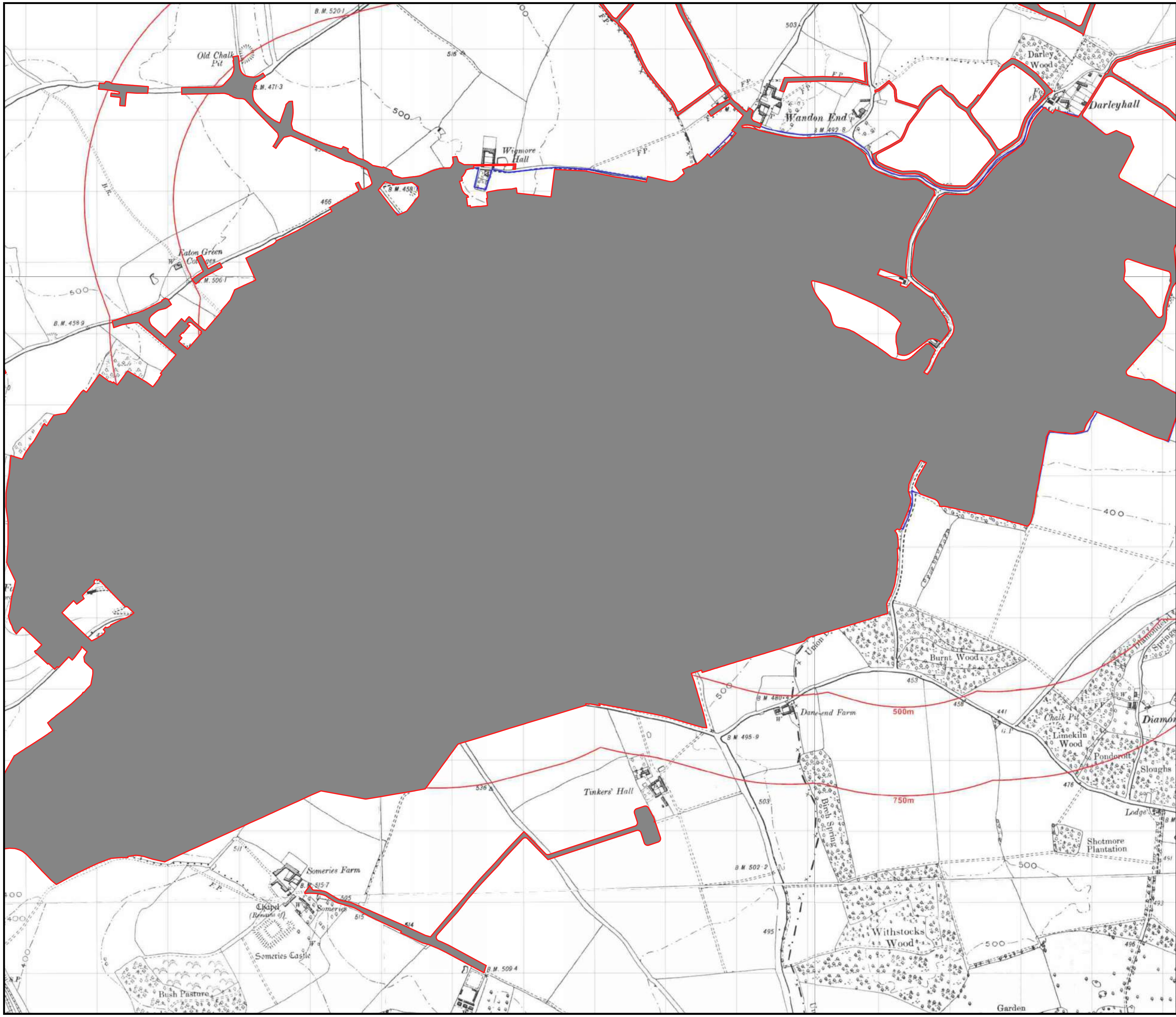
3XUSRVH RI LVVXH: 68,7$%/( )25 ,1)250$7,21
6XLWDELOLW\: 6

'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]
$%	5%	7%			$

'&2 $SSOLFDWLRQ 5HI | 3ODQ 5HI | 'RFXPHQW 5HI
75

'UDZLQJ 1XPEHU: //$'&2 & $53 '5 <(
5HYLVLRQ: 3

3URMHFW | 3KDVH | 2ULJLQDWRU | $VVHW =RQH | 6XE $VVHW



7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SUH
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSPHQW %

6HDUFK %RXQGDU\

)LUVW ,VVXH	$%	5%	7%	3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG	$SSURYHG	'DWH	5HY

/XWRQ $LUSRUW /LPLWHG
+DUW +RXVH %XVLQHVV &HQWUH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQJ

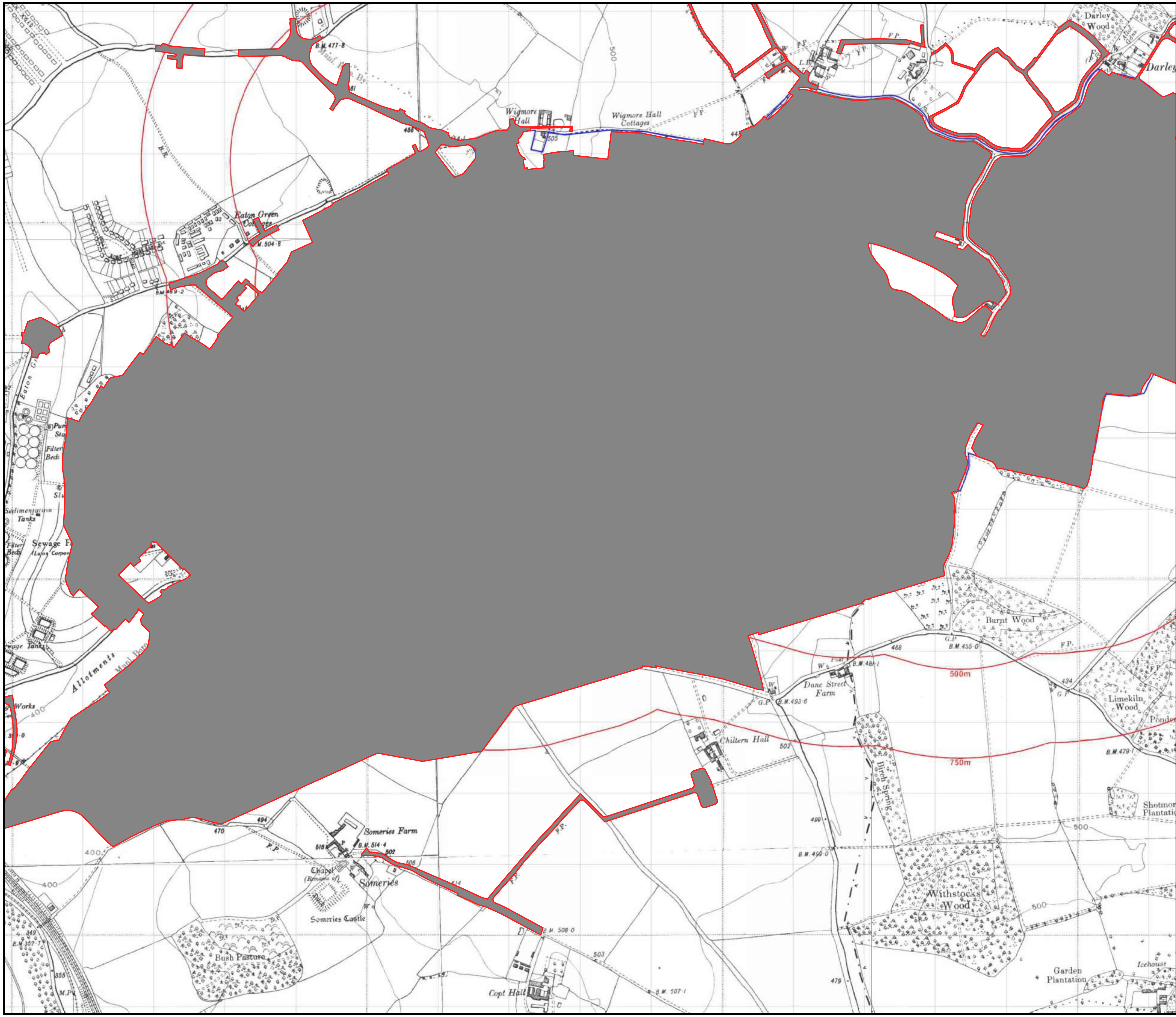
/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH
)LJXUH D
+LVWRULFDO 0DSSLQJ 0DS

3XUSRVH RI LVVXH
68,7$%/( )25 ,1)250$7,21
6XLWDELOLW\
'UDZQ $%
&KHFNHG 5%
$SSURYHG 7%
'DWH
6FDOH
6L]H $

'&2 $SSOLFDWLRQ 5HI
75
3URM 5HI
'RFXPHQW 5HI

'UDZLQJ 1XPEHU
//$'&2 & $53 '5 <(
5HYLVLRQ P
3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW



7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SUH
GHVLJQ GHYHORSPHQW 7KH FDQQHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSPHQW %

6HDUFK %RXQGDU\

)LUVW ,VVXH	$%	5%	7%	3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG	$SSURYHG 'DWH	5HY

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/XWRQ 5LVLQ
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQJ

/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH
)LJXUH E
+LVWRULFDO 0DSSLQJ 0DLQ

3XUSRVH RI LVVXH			6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21			6
'UDZQ $%	&KHFNHG 5%	$SSURYHG 7%	'DWH	6FDOH	6L]H $

'&2 $SSOLFDWLRQ 5HI / 5HIHUHQFH 'RFXPHQW 5HI
75

'UDZLQJ 1XPEHU 5HYLVLRQ
//$'&2 & $53 '5 <(3
3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SU
GHVLJQ GHYHORSHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSHQW %

6HDUFK %RXQGDU\

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

/XWRQ 5LVL
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQ

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/RQGRQ /XWRQ $LUSRUW
'HYHORSHQW &RQVHQW 2U

'UDZLQJ 7LWOH
)LJXUH F
+LVWRULFDO 0DSSLQJ 0DLQ

3XUSRVH RI LVVXH				6XLWDELOLW\	
68,7$%/( )25 ,1)250$7,21					6
'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$
'&2 $SSOLFDWLRQ 5HI 75		5HIHUHQFH			

'UDZLQJ 1XPEHU	5HYLVLRQ
//$'&2 & $53 '5 <(	3

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

Sports Ground
Pavilion
Tennis Courts
School
Hilltop Road
Summers Road
Wigmore Bottom
Wigmore Hall Farm
Sports Ground
Pavilion
Bowling Green
Tennis Courts
Car Park
Engineering Works
Garage
Garage
Travelling Crane
Terminal Building
Car Parks
Control Tower
Car Park Lodge
Kimpton Lane
Works
Luton Airport
Ivy Cottage
Wandon End
Works
Wandon End Farm
Darley Wood
Darley Road
Darleyhall
Green Acres
Boro Const Bdy
Winchhill Farm
New Winchhill Cottages
Winch Hill House
Netherfield Spring
Co Const Bdy
Diamondend Springs
Burnt Wood
Woodside Cottage
Diamond End Cottages
Limekiln Wood
Dane Street Cottages
Dane Street Farm
500m
Chiltern Hall
Birch Spring
750m
North Lodge
Shortmore Plantation
Lawrence End Park
Withstocks Wood
Co Const & CP Bdy
Someries
Someries Farm
Chapel (remains of)
Someries Lodge
Someries Castle (site of)

7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SU
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSPHQW %

6HDUFK %RXQGDU\

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

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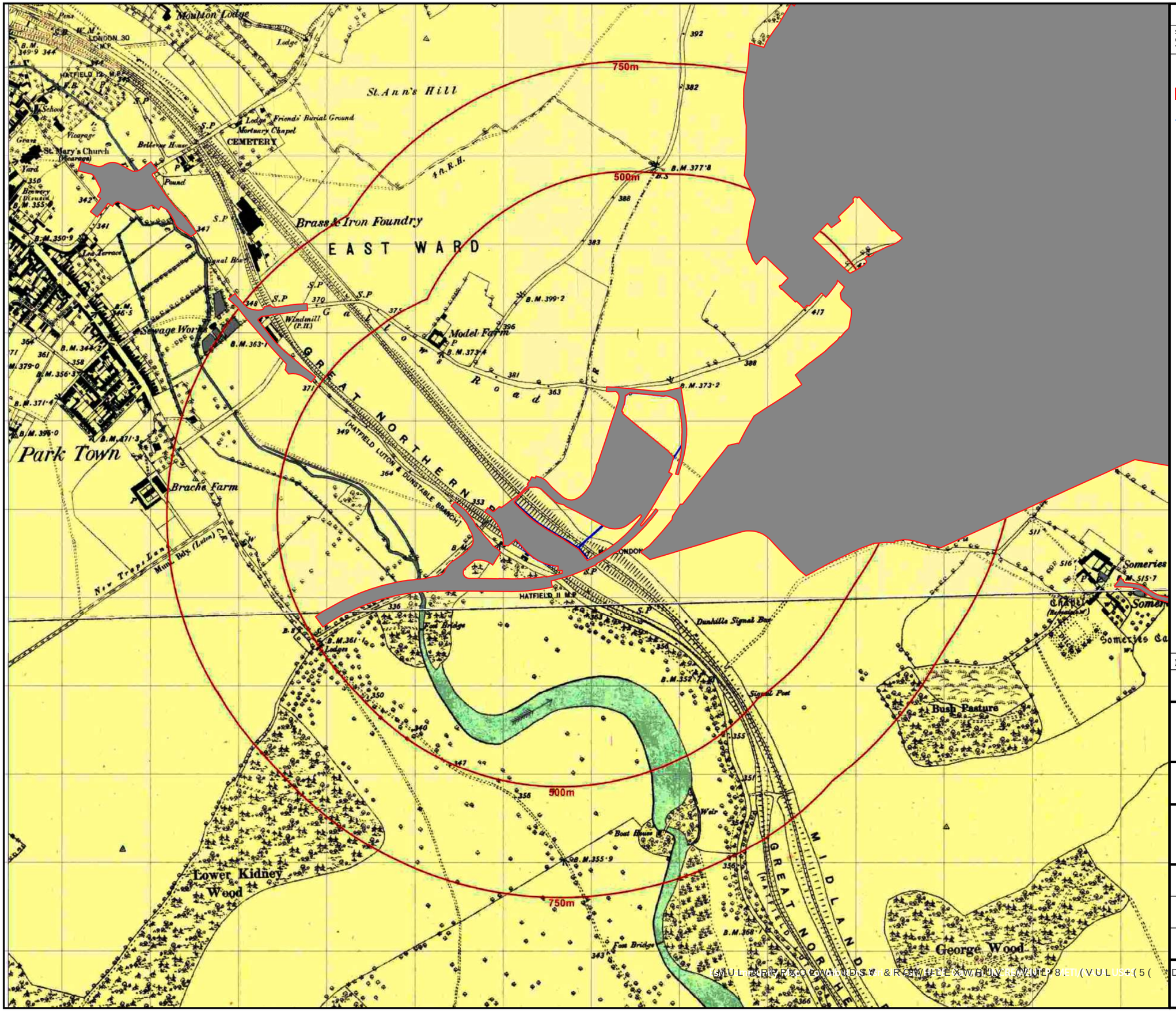
/XWRQ $LUS
+DUW +RXV %XLOGH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQJ

/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH
)LJXUH G
+LVWRULFDO 0DSSLQJ 0DLQ

3XUSRVH RI LVVXH				6XLWDELOLW\	
68,7$%/( )25 ,1)250$7,21					
'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6LJ
$%	5%	7%			$
'&2 $SSOLFDWLRQ 5HI 75		5HIHUHQFH			
'UDZLQJ 1XPEHU				5HYLVLRQ	
//$'&2 & $53			'5 <(	3	
3URMHFW 3KDVH	2ULJLQDWRU	$VVHW =RQH	6XE $VVHW		

School
Superstore
Wigmore Park Centre
Recn Gd
Allot Gdns
Ivy Cottages
Golf Driving Range
Wandon End
Works
Wandon End Farm
Green Acres
Darley Wood
Track
Path
Darleyhall
Track
Co Const Bdy
Track
Burnt Wood
Diamondend Springs
Woodside Cottage
143m
Path
Diamond End Cottages
Limekiln Wood
GP
132m
Pondcroft
Sloughs Wo
GP
North Lodge
Shotmore Plantation
Lawrence End Park
Dane Street Cottages
Dane Street Farm
GP
500m
Chiltern Hall
Path
750m
Birch Spring
Boro Const Bdy
151m
Withstocks Wood
Track
Path
Withstocks Wood
Garden Plantation
146m
Co Const Bdy
Boro Const Bdy
Someries Farm
UA Bdy
Someries
Chapel (remains of)
153m
Someries Lodge
156m
Track
Someries Castle
Bush Pasture
Bush Pasture
Track
Track
153m
Copt Hall Cottages
Copt Hall
Works
Path



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+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SUI
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSPHQW %

6HDUFK %RXQGDU\

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

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/XWRQ 5LVL
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQ

/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH

)LJXUH D
+LVWRULFDO 0DSSLQJ 2II 6

3XUSRVH RI LVVXH				6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21				6
'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$
'&2 $SSOLFDWLRQ 5HI 75		5HJLVWUDWLRQ 5HI			

'UDZLQJ 1XPEHU 5HYLVLRQ

DUPLQ ,1&5(17 3 0(7, 1$6$ 86*6
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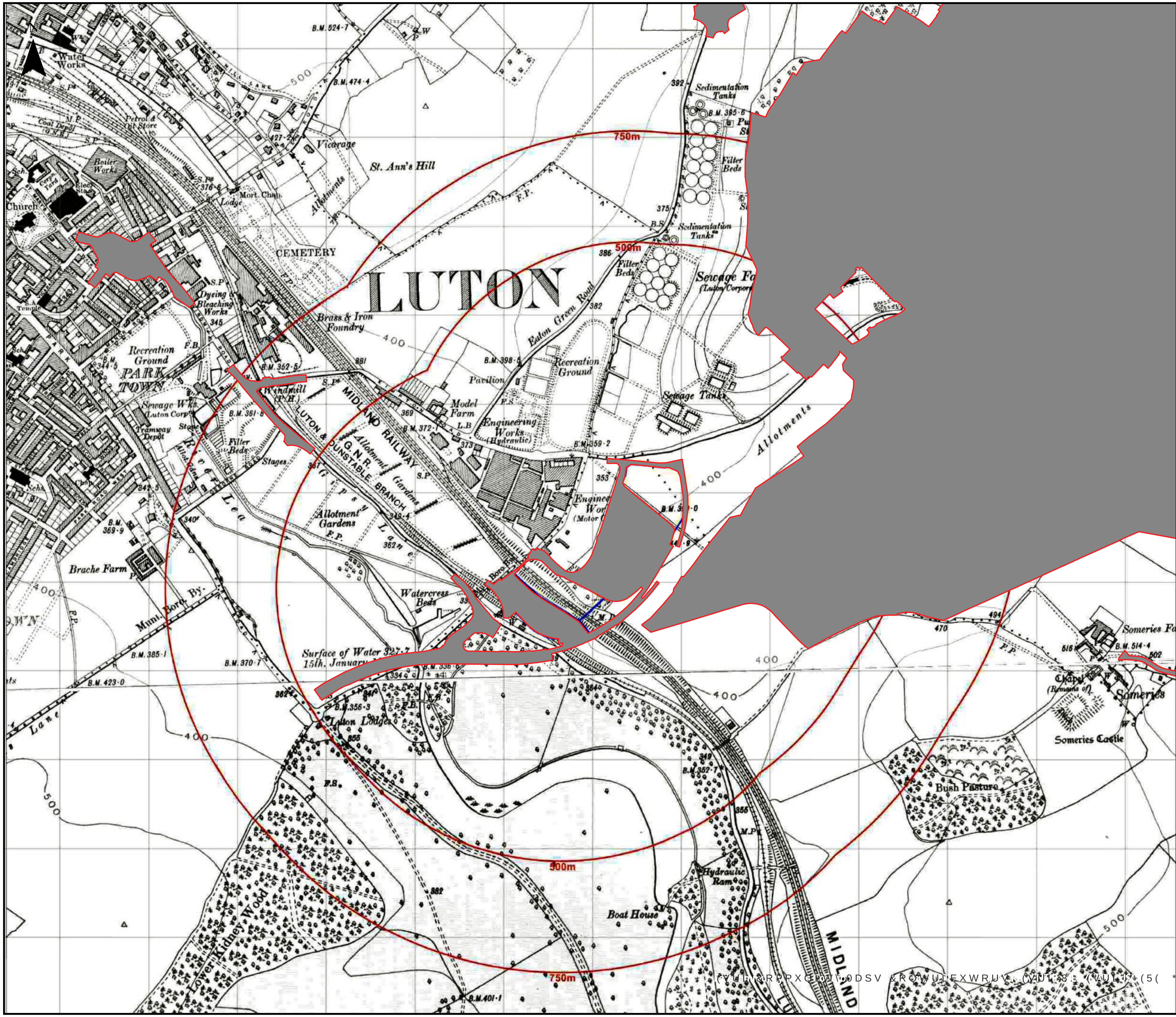
3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW



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+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SUH
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSPHQW %

6HDUFK %RXQGDU\

)LUVW ,VVXH	$%	5% 7%	3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG $SSURYHG	'DWH 5HY

/XWRQ $LUSRUW
+DUW +RXVH %XVLQHVV
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQJ

/RQGRQ /XWRQ $LUSRUW
'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH

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+LVWRULFDO 0DSSLQJ 2II 6

3XUSRVH RI ,VVXH			6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21			6
'UDZQ	&KHFNHG	$SSURYHG 'DWH	6FDOH	6L]H
$%	5%	7%		$

'&2 $SSOLFDWLRQ 5HI 5HJXODWLRQ 5HI
75

'UDZLQJ 1XPEHU 5HYLVLRQ
//$'&2 & $53 '5 <(3

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

(YHU\ HIIRUW KDV EHHQ PDGH WR FRPPXQLFDWH WKH GHWDLOV RI WKH UHOHYDQW 0DSV &RQWULEXWRUV $GDSWHG (VVH[$UFKLWHFWV ,1&5(0(17 3 0(7 1$6$ 86*6

7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SU
GHVLJQ GHYHORSHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSHQW &RQVHQW 2UGHU

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6HDUFK %RXQGDU\

)LUVW ,VVXH	$%	5% 7%		3
5HYLVHG +LVWRULF		&KHFNHG $SSURYHG	'DWH	5HY

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/XWRQ 5LVL
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQ

/RQGRQ /XWRQ $LUSRUW
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'UDZLQJ 7LWOH

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+LVWRULFDO 0DSSLQJ 2II 6

3XUSRVH RI LVVXH				6XLWDELOLW\
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'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
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'&2 $SSOLFDWLRQ 1R	5HY				
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'UDZLQJ 1XPEHU 5HYLVLRQ
//$'&2 & $53 '5 <(3

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

(VUL &RPPXQLW\ 0DSV &RQWULEXWRUV (VUL 8. (VUL +(5(*DUPLQ ,1&5(0(17 3 0(7, 1$6$ 86*6

7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

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'HYHORSHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSHQW %

6HDUFK %RXQGDU\

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

/XWRQ 5LVL
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQ

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/RQGRQ /XWRQ $LUSRUW
'HYHORSHQW &RQVHQW 2U

'UDZLQJ 7LWOH

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+LVWRULFDO 0DSSLQJ 2II 6

3XUSRVH RI LVVXH				6XLWDELOLW\
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'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$
'&2 $SSOLFDWLRQ 5HI 75		5HI			

'UDZLQJ 1XPEHU 5HYLVLRQ
//$'&2 & $53 '5 <(3

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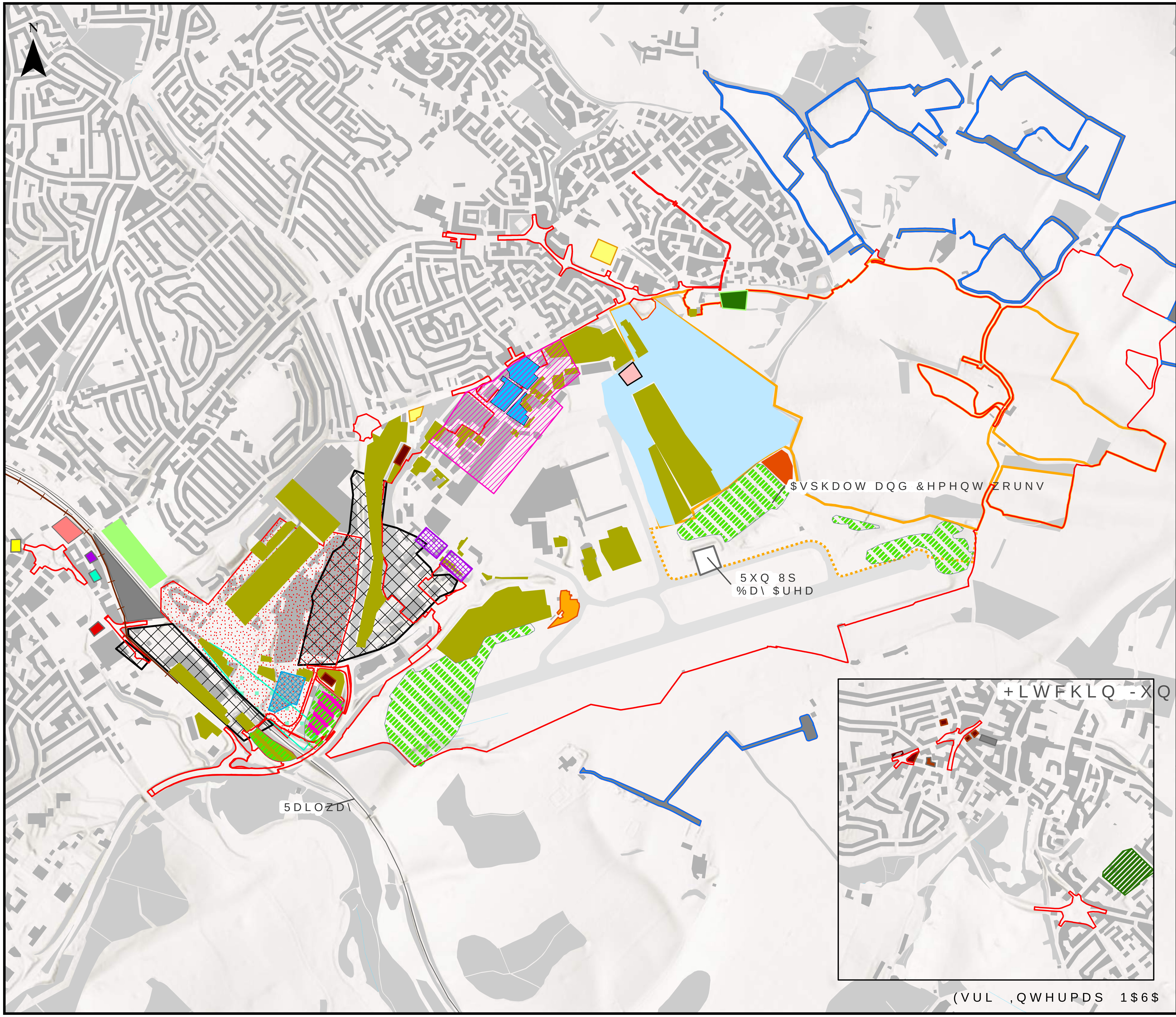

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GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
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- 3URSRVHG 'HYHORSPHQW
- 2II VLWH 3ODQWLQJ
- 6LWH 6XEGLYLVLRQ
-)RUPHU 5DLOZD\
- 'H LFLQJ 7DQN
- (OHFWULFDO 6XEVWDWLRQ
-)XHO 7DQN
- +LVWRULFDO 0RWRU :RUNV
- +LVWRULFDO 5LIOH 5DQJH
- +LVWRULFDO 6HZDJH)DUP
- +LVWRULFDO %RLOHU
- (OHFWULFLW\ +HQHUDWRU
- %XULDO *URXQG
- 3RWHQWLDO ,QILOOHG 3RQG
- &HPHWHU\
- +LVWRULFDO '\HLQJ DQG &OHDQLQJ
- +LVWRULFDO $EEDWRLU
- +LVWRULFDO ,URQ)RXQGU\
- %RXQGDU\ /DXQGU\
- +LVWRULFDO 7LPEHU
- $OORWPHQWV
- &DU 3DUN
-)LUH 6WDWLRQ
-)XHO 7DQNLQJ *URXQG
-)RUPHU /DQGILOO
-)XHO 'HSRWV
- *DUDJH
- 0DGH *URXQG (DUWK
- 0LVFHOODQHRXV :RUNV
- 3HWURO 6WDWLRQ :RUNV
- 3HWURO 6WDWLRQ
- 3ULQW :RUNV
- 5XQ 8S %D\ $UHD
- 6FUDSLQJ 3URFHVVLQJ
- 7UDLOHU 3DUN

)LUVW ,VVXH	$%	5%	7%	3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG	$SSURYHG	'DWH	5HY

/XWRQ 5LVLQJ
+DUW +RXVH %XVLQHVV
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQJ

/RQGRQ /XWRQ $LUSRUW
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'UDZLQJ 7LWOH

)LJXUH
3RWHQWLDO 6RXUFHV
RI &RQWDPLQDWLRQ

3XUSRVH RI LVVXH	6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21	6

'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]
$%	+3	7%			$

'&2 $SSOLFDWLRQ 5HI	6WDWXWRU\ 5HI	'RFXPHQW 5HI
75		

'UDZLQJ 1XPEHU				5HYLVLRQ
//$'&2	&	$53	'5 <(	3
3URMHFW	3KDVH	2ULJLQDWRU	$VVHW =RQH	6XE $VVHW

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7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SU
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSPHQW %

6LWH 6XEGLYLVLRQV

%HGURFN

+RO\ZHOO 1RGXODU &KDON
1HZ 3LW &KDON IRUPDWLRQ
8QGLIIHUHQWLDWHG
=LJ =DJ &KDON)RUPDWLRQ

/HZHV 1RGXODU &KDON DQG
&KDON IRUPDWLRQ XQGLIH

*DXOW)RUPDWLRQ 0XGVW

:HVW 0HOEXU\ 0DUO\ &KDON

/DPEHWK *URXS &OD\ 6LO

6XSHUILFLDO

$OOXYLXP

&OD\ ZLWK IOLQWV

*ODFLRIOXYLDO GHSRVLWV

+HDG

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5LYHU 7HUUDFH 'HSRVLWV

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

/XWRQ 5LVL
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQUL/LQ

/RQGRQ /XWRQ $LUSRUW
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'UDZLQJ 7LWOH
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*HRORJ\

3XUSRVH RI LVVXH	6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21	6

'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$

'&2 $SSOLFDWLRQ 5HI	6XEPLVVLRQ 5HI
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'UDZLQJ 1XPEHU	5HYLVLRQ
//$'&2 & $53 '5 <(	3

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&RQWDLQV 26 GDWD &URZQ &RS\ULJKW DQG GDWDEDVH ULJKW

7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SU
GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

- 3URSRVHG 'HYHORSPHQW %RXQGDU\
- 2II VLWH +LJKZD\ ,QWHUYHQWLRQV
- 6LWH 6XEGLYLVLRQV

%HGURFN

- +RO\ZHOO 1RGXODU &KDON IRUPDWLRQ 1HZ 3LW &KDON IRUPDWLRQ DQG 8QGLIIHUHQWLDWHG
- =LJ =DJ &KDON)RUPDWLRQ
- /HZHV 1RGXODU &KDON DQG 6HDIRUG &KDON IRUPDWLRQ XQGLIIHUHQWLDWHG
- *DXOW)RUPDWLRQ 0XGVWRQH
- :HVW 0HOEXU\ 0DUO\ &KDON)RUPDWLRQ
- /DPEHWK *URXS &OD\ 6LOW DQG 6DQ

6XSHUILFLDO

- $OOXYLXP
- &OD\ ZLWK IOLQWV
- *ODFLRIOXYLDO GHSRVLWV
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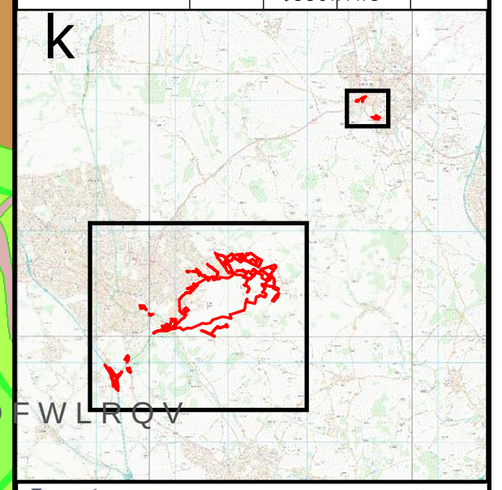
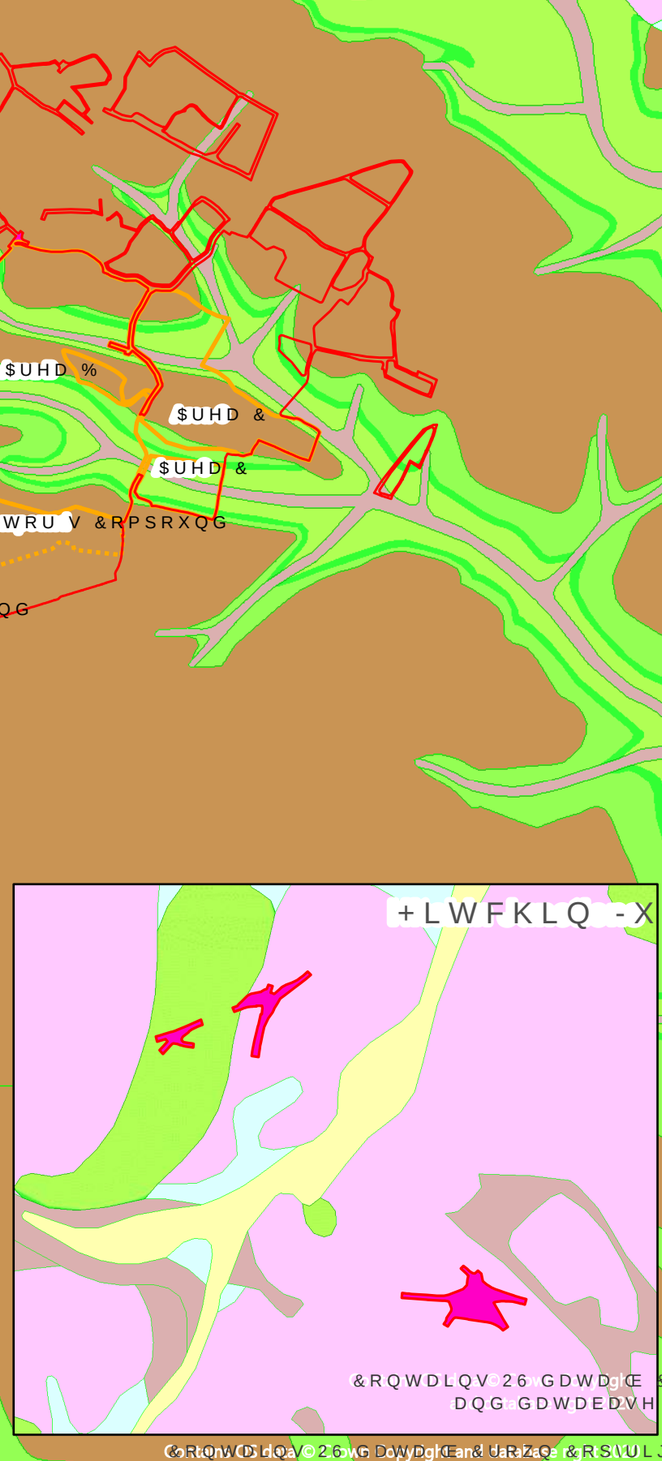
- 5LYHU 7HUUDFH 'HSRVLWV

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	UDZQ	&KHFNHG $SSURYHG	'DWH	5HY





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'UDZLQJ 7LWOH
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*HRORJ\ 2II VLWH +LJKZD\ ,QW

3XUSRVH RI LVVXH				6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21				6
'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$

&RQWDLQV 26 GDWDVHW &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV

'UDZLQJ 1XPEHU	5HYLVLRQ
//$'&2 & $53 '5 <(	3

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ R
+062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV 2U

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH SU
GHVLJQ GHYHORSHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSHQW &RQVHQW 2UGHU

/HJHQG

3URSRVHG 'HYHORSHQW %

6LWH 6XEGLYLVLRQV

:DWHUFRXUVH

$IILQLW\ :DWHU SRWDEOH

/LFHQVHG JURXQGZDWHU D

3ULYDWH JURXQGZDWHU D

:DWHUEG\ &DFKPHQW $U

6RXUFH SURWHFWLRQ]RQH

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7RWDO FDWFKPHQW

0LPUDP :KLWZHOO WR &RGLFRWH %RWWRP

/HH IURP /XWRQ WR /XWRQ +RR /DNHV

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//$/ &RQWUDFWRU V &RPSRXQG

([LVWLQJ $LUSRUW /DQG

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0LPUDP &RGLFRWH %RWWRP WR /HH

/HH IURP /XWRQ +RR /DNHV WR +HUWIRUG

8SSHU &ROQH DQG (OOHQ %URRN

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

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/XWRQ $LUL
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQ

/RQGRQ /XWRQ $LUSRUW
'HYHORSHQW &RQVHQW 2U

'UDZLQJ 7LWOH

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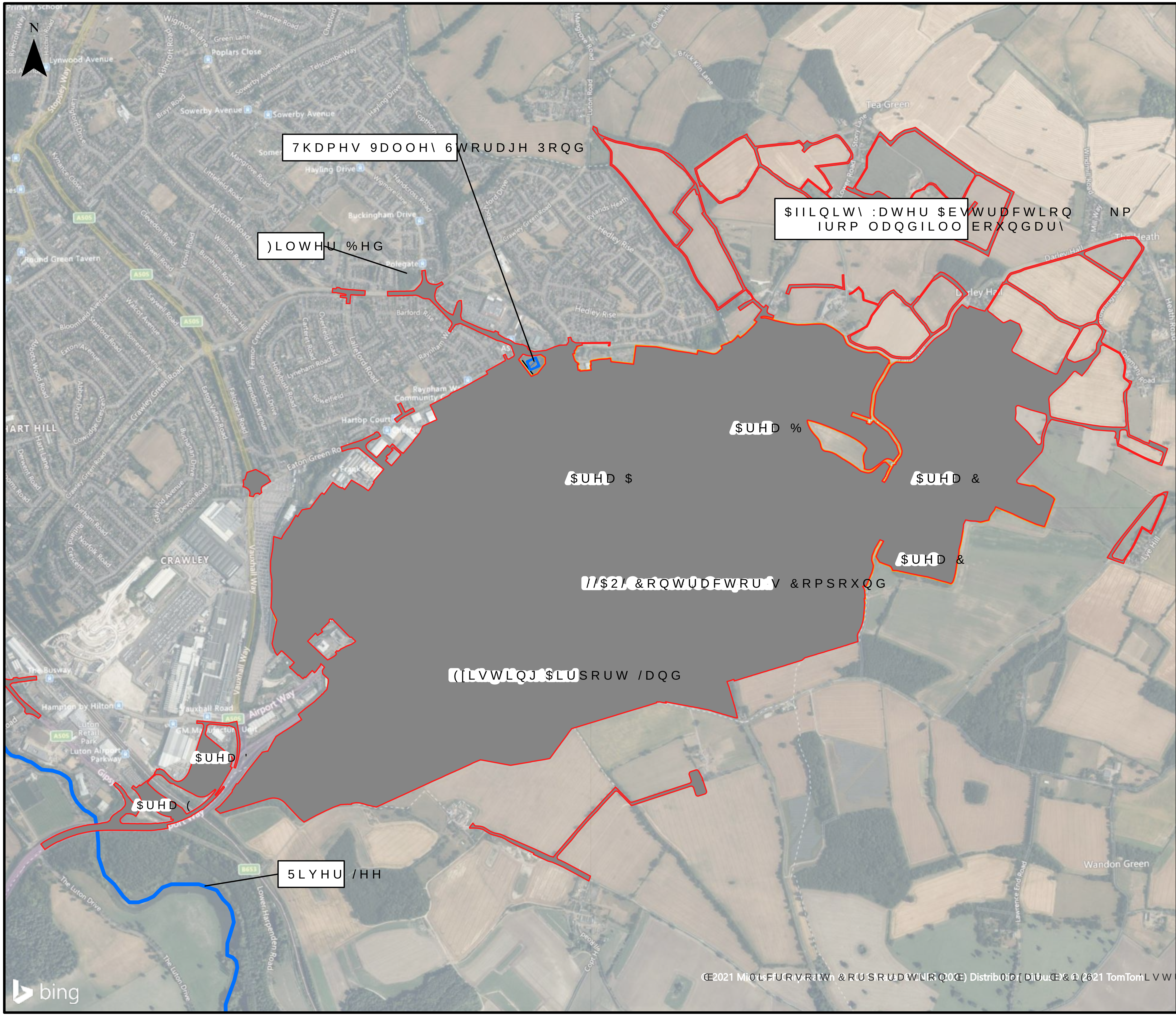
3XUSRVH RI LVVXH	6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21	6

'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$

'&2 $SSOLFDEOH	5HJXODWRU\ 5HIHUHQFH
75	

'UDZLQJ 1XPEHU	5HYLVLRQ
//$'&2 & $53 '5 <(	3

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW



7KLV GUDZLQJ PD\ FRQWDLQ PDSSLQJ E\ SHUPLVVLRQ RI +062 ‹ &URZQ &RS\ULJKW DQG GDWDEDVH ULJKWV

$OO VWUXFWXUH SRVLWLRQV DUH LQGLFDWLYH 7KH FKDQJHV ZLOO EH ZLWKLQ 'HYHORSPHQW &RQVHQW 2UGHU

/HJHQG

- 3URSRVHG 'HYHORSPHQW
- 6LWH 6XEGLYLVLRQV
- $LUSRUW $FFHVV 5RDG
- 6RDNDZD\
- 7KDPHV 9DOOH\ 6WUDJH
- 7KDPHV 9DOOH\ 'UDLQ
- 5LYHU /HH

0DLQ $UHD RI 1HZ 'HYHORSPHQW

- ([LVWLQJ $LUSRUW /DQG
- //$2/ &RQWUDFWRU V &RPS
- $UHD $)RUPHU /DQGILOO
- $UHD % /DQG :HVW RI :LQ
- $UHD & /DQG (DVW RI :LQ

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- $UHD (2IIVLWH &DU 3DUN

)LUVW ,VVXH	$%	5% 7%		3
5HYLVLRQ +LVWRU\	'UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

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/XWRQ 5LVLQJ +DUW +RXVH %XVLQHVV .LPSWRQ 5RDG /XWRQ ZZZ OXWRQULVLQJ

/RQGRQ /XWRQ $LUSRUW 'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH

)LJXUH ([LVWLQJ :DWHU)HDWXUH

3XUSRVH RI LVVXH			6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21			6

'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$

'&2 $SSOLFDWLRQ 5HI 75 | 3ODQQLQJ 5HJXODWLRQ 5HI | 'RFXPHQW 5HI

'UDZLQJ 1XPEHU

//$'&2 & $53 '5 <(3

7RP7RP 5HYLVLRQ

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

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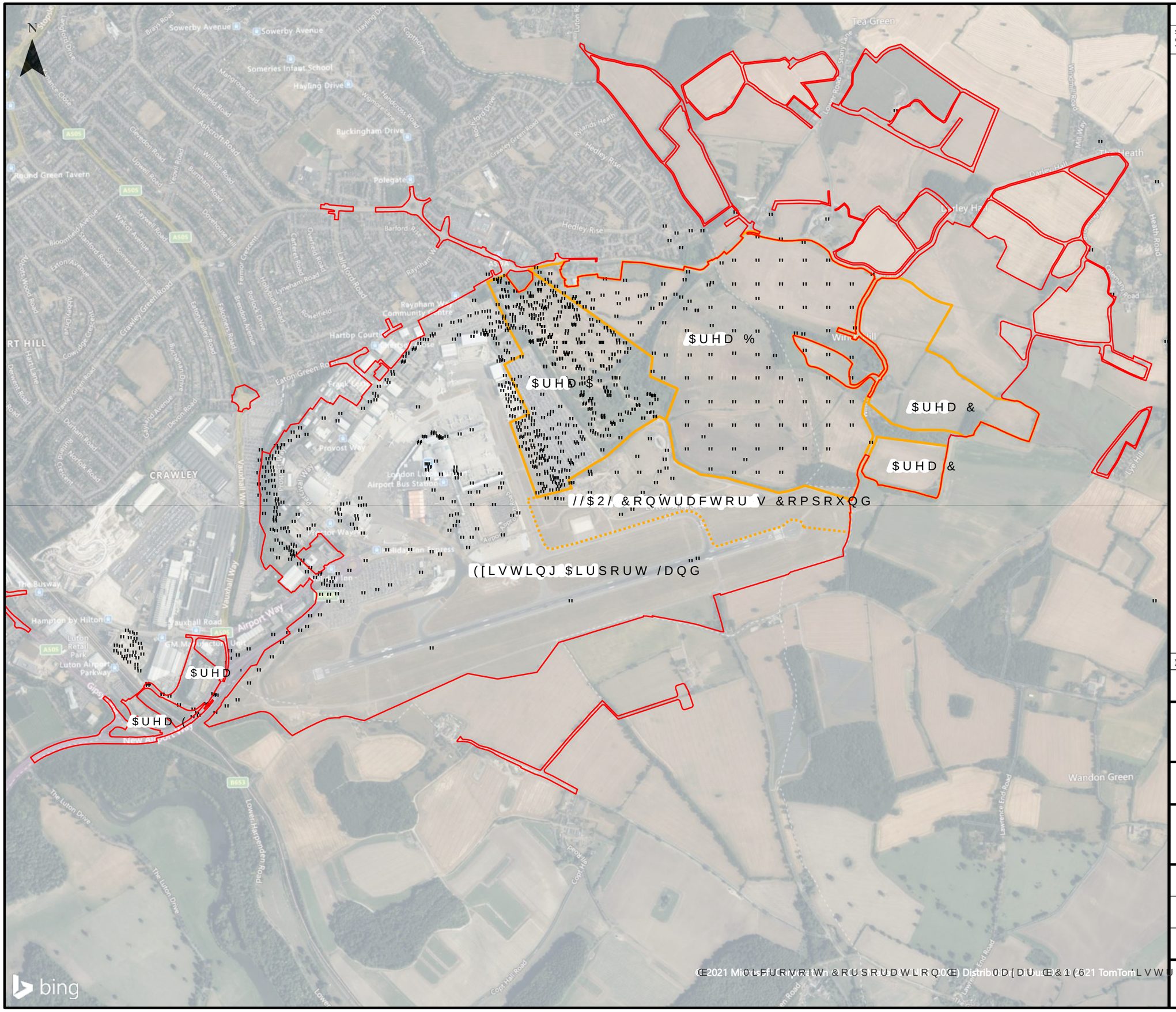

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GHVLJQ GHYHORSPHQW 7KH FKDQJHV ZLOO EH ZLWKLQ
'HYHORSPHQW &RQVHQW 2UGHU

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- 3URSRVHG 'HYHORSPHQW %RXQGDU\
- 6LWH 6XEGLYLVLRQV
- $(&20 /XWRQ $LUSRUW /DQGILOO
- $(&20 /XWRQ +DQJDU
- 6WUXFWXUDO 6RLOV &HQWXU\ 3D
- 6WUXFWXUDO 6RLO /DQGILOO DQ
- &RQFHSW 6LWH /XWRQ $LUSRUW 7
- 'HWDLO 6LPPRQV 7D[LZD\ )R[WUW
- 6RLO (QJLQHHULQJ /XWRQ $LUSR
- 56. 2FHDQ 6N\ %XLOGLQJ DQG 6K
- :DUGHQ $UPVWURQJ 6WLUOLQJ 3
- 56$ //$ +DQJDU DQG 7D[LZD\ ([WH
-)XJXU
- %ULWLVK *HRORJLFDO 6RFLHW\

)LUVW ,VVXH	$%	5%	7%	3
5HYLVLRQ +LVWRU\	UDZQ	&KHFNHG $SSURYHG	'DWH	5HY

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/XWRQ $LUL
+DUW +RXVH %XVLQH
.LPSWRQ 5RDG /XWRQ
ZZZ OXWRQULVLQ

/RQGRQ /XWRQ $LUSRUW 'HYHORSPHQW &RQVHQW 2U

'UDZLQJ 7LWOH
)LJXUH
3UHYLRXV *URXQG ,QYHVWLJ
/RFDWLRQV

3XUSRVH RI LVVXH				6XLWDELOLW\
68,7$%/( )25 ,1)250$7,21				6
'UDZQ	&KHFNHG	$SSURYHG	'DWH	6FDOH	6L]H
$%	5%	7%			$
'&2 $SSOLFDWLRQ 5HI		5HI		75	

'UDZLQJ 1XPEHU 5HYLVLRQ
//$'&2 & $53 '5 <(3

3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

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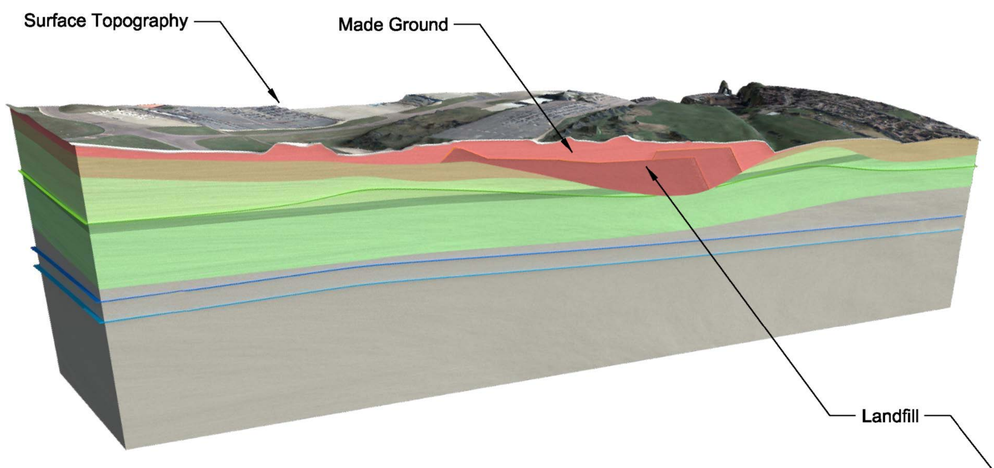

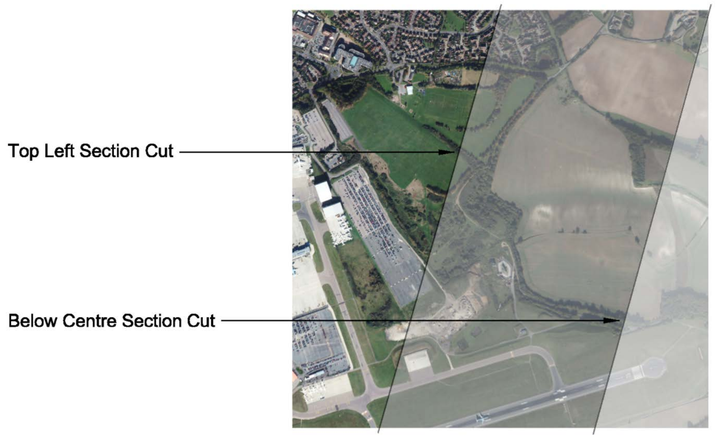

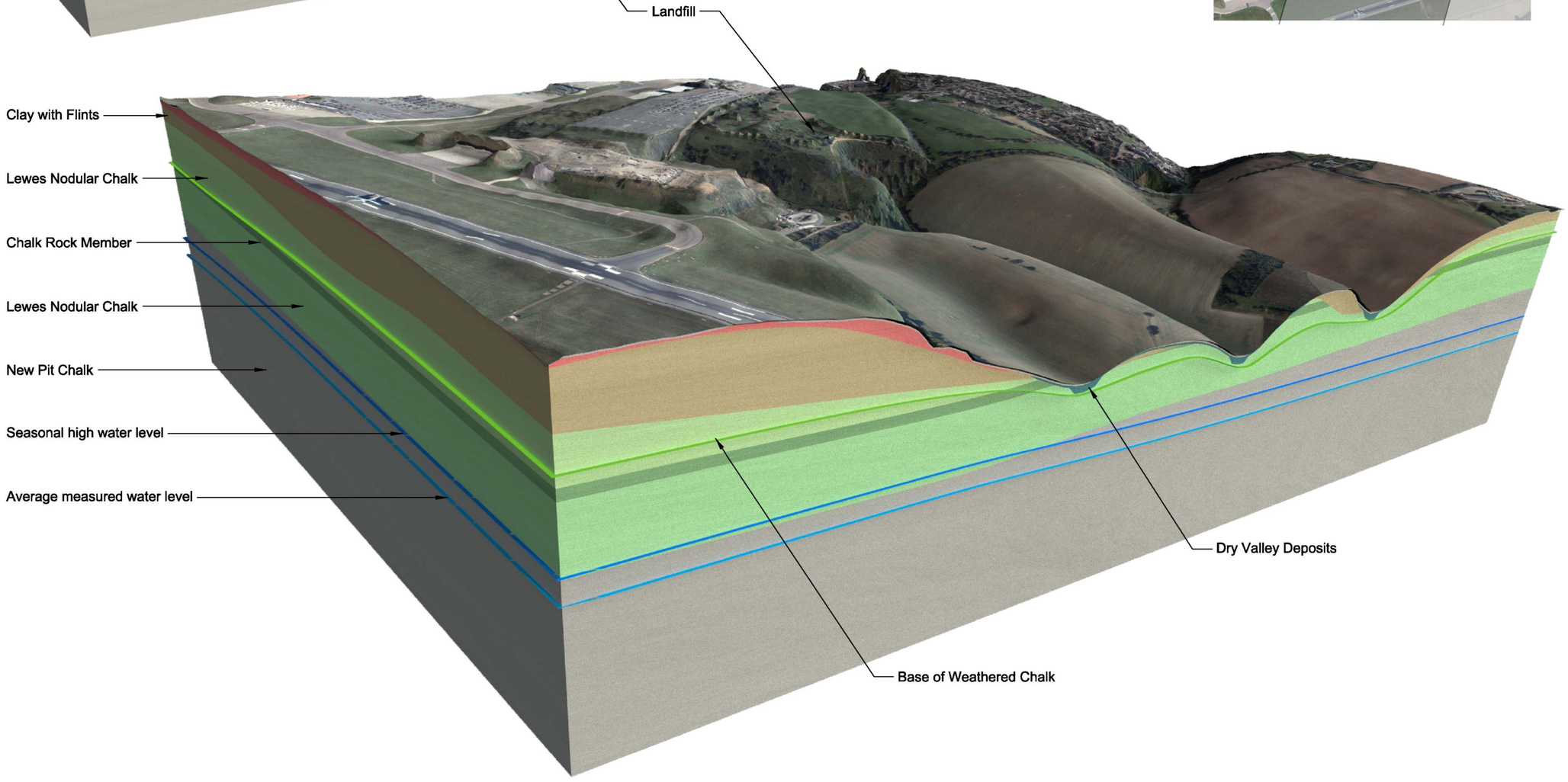

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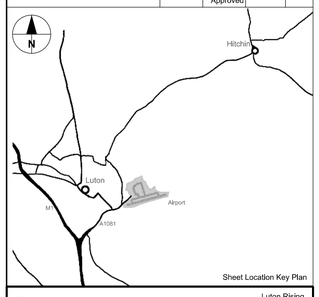
All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

Notes

1. Do not scale from this drawing.
2. These drawings are primarily intended to be viewed electronically. Some details may not be clear or visible on a printed version.
3. Strata and other levels have been drawn from interpolated 3D models of various boundaries logged in trial pits and boreholes, topographical data and data from geological maps etc.
   It is intended to provide a guide as to likely ground conditions and as such should be regarded as indicative. It is recommended that design decisions made on the basis of this information are confirmed by investigation.
4. Bing Maps Aerial - © 2021 Microsoft Corporation © 2021 Maxar ©CNES (2021) Distribution Airbus DS

Revision History	Drawn	Checked / Approved	Date	Rev.
Issue	IJ	RB / TB	16/12/21	P01



Sheet Location Key Plan

Luton Rising
Hart House Business Centre
Kimpton Road, Luton, LU2 0LA
www.lutonrising.org.uk

Luton Rising
Our airport. Our community Our planet.

London Luton Airport
Development Consent Order

Drawing Title

Figure 15
Ground Model

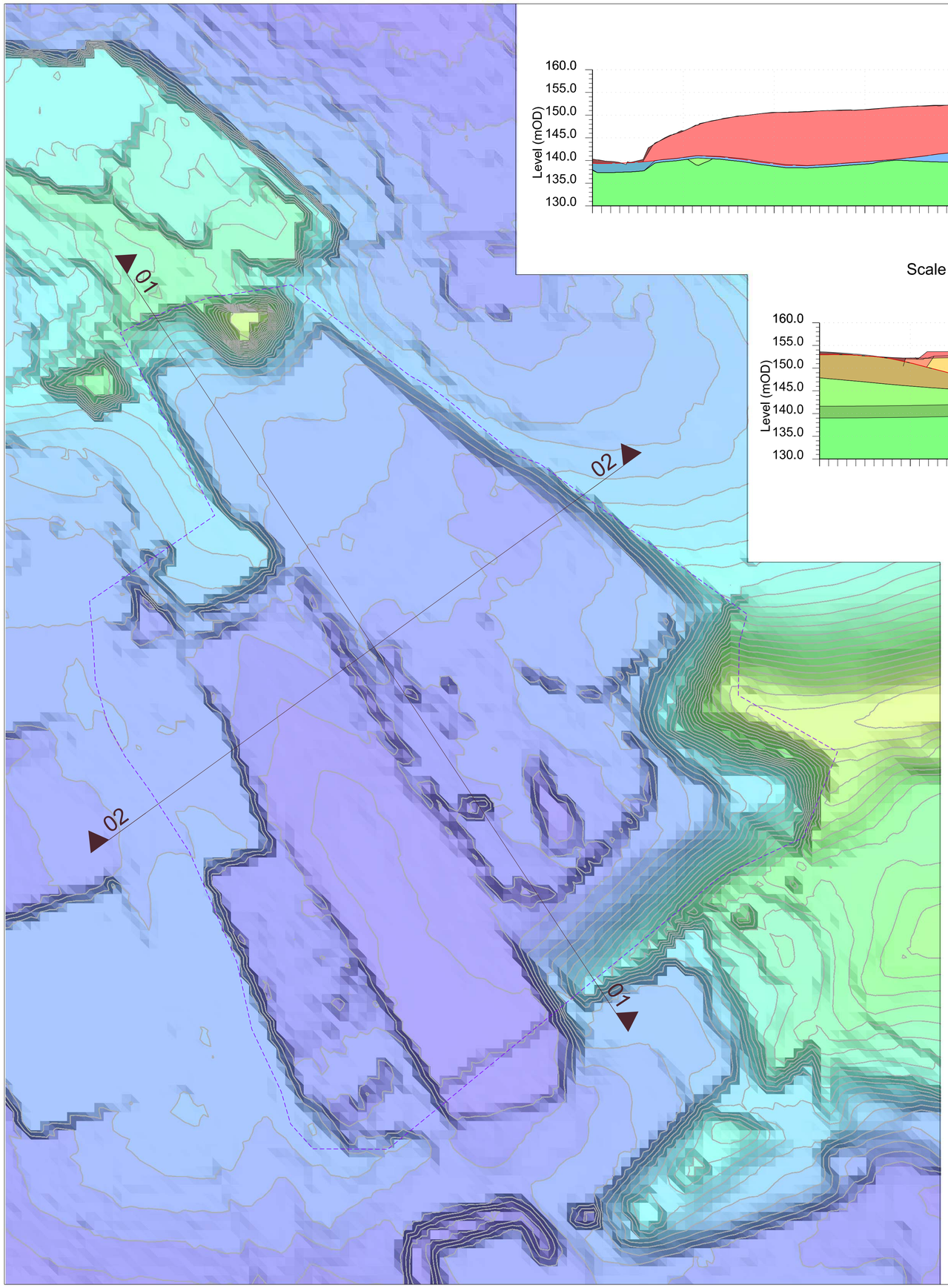
Purpose of issue	Suitability
SUITABLE FOR COORDINATION	S2

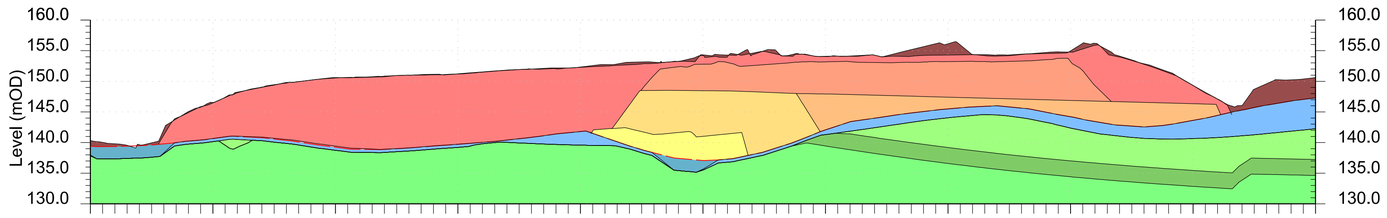
Drawn	Checked	Approved	Date	Scale	Size
IJ	RB	TB	16/12/21	NTS	A1

DCO Application Ref.	APFP Regulation	DCO Document Ref.
TR020001		

Drawing Number	Revision
LLADCO-3C-ARP-00-00-DR-YE-0151	P01

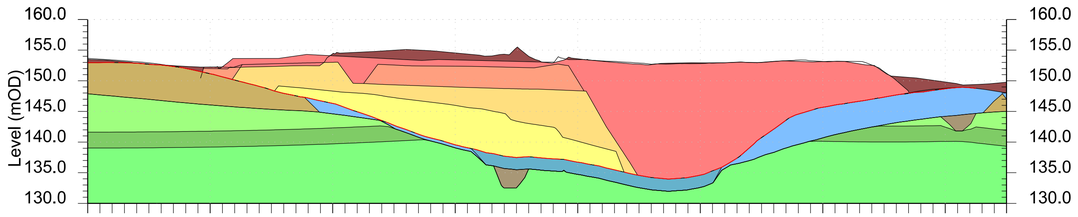
Project – Phase – Originator – Asset/Zone – Sub Asset – Type – Discp. – Number





Section 01

Scale = Horizontal 1:5000 Vertical 1:1000



Section 02

Scale = Horizontal 1:5000 Vertical 1:1000

Interactive Buttons

Click to Cycle through Interpreted Filling Periods

- Before Filling
- Up to 1947
- 1947 - 1955
- 1955 - 1960
- 1960 - 1970
- 1970 - 1980
- Post 1982

Colour Coded Height Map of Historical Levels (mOD)

Plan Legend:

Mapped Extent of Landfill from Historical Aerials

Section Legend:

- Base of Made Ground / Top of Natural Ground
- Made Ground Post 1980
- Dry Valley Deposits
- Head
- Clay with Flints
- Pipe
- Lewes Nodular Chalk
- Chalk Rock

Landfill Waste Ages of Filling
- 1970 - 1980
- 1960 - 1970
- 1955 - 1960
- 1947 - 1955
- Pre 1947

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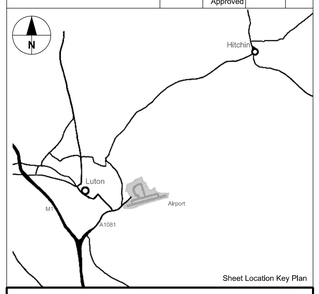
All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

Notes

1. Do not scale from this drawing.
2. All levels are in metres above ordnance datum unless noted otherwise.
3. These drawings are primarily intended to be viewed electronically. Some details may not be clear or visible on a printed version.
4. Strata and other levels have been drawn from interpolated 3D models of various boundaries logged in trial pits and boreholes, topographical data and data from geological maps etc. It is intended to provide a guide as to likely ground conditions and as such should be regarded as indicative. It is recommended that design decisions made on the basis of this information are confirmed by investigation.
5. This is an interactive 2D PDF. For full interactivity it is recommended that the original digital version it is opened and viewed using Adobe Reader 7.0 or higher.

Issue	IJ	RB TB	16/12/21	P01
Revision History	Drawn	Checked Approved	Date	Rev.



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Drawing Title

Figure 16
Periods of Landfill Filling

Purpose of issue				Suitability
SUITABLE FOR COORDINATION				S2
Drawn	Checked	Approved	Date	Scale / Size
IJ	RB	TB	16/12/21	1:2500 / A1
DCO Application Ref.	APFP Regulation		DCO Document Ref.	
TR020001				

Drawing Number: LLADCO-3C-ARP-00-00-DR-YE-0152 (Project – Phase – Originator – AssetZone – Sub Asset – Type – Discp. – Number)

Revision: P01

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/HJHQG

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- 6LWH 6XEGLYLVLRQV
- *URXQGZDWHU /RFDWLRQV
- $UXS 0RQLWRULQJ /RFDWLRQV
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Maxar, Microsoft

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/XWRQ 5LVL
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.LPSWRQ 5RDG /XWRQ
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3URMHFW 3KDVH 2ULJLQDWRU $VVHW =RQH 6XE $VVHW

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Appendix A – **Groundsure**

Groundsure Enviroinsight

Address:	**512568, 221118,**
Date:	**19 Feb 2016**
Reference:	**GS-2762878**
Client:	**Ove Arup & Partners International Ltd**

NW N NE

W E

SW S SE

Aerial Photograph Capture date:	01-Jun-2014
Grid Reference:	513038,221564
Site Size:	294.22ha

Report Reference: GS-2762878
Client Reference: Luton_245580-00

Contents Page

Contents Page 3
Overview of Findings 6
Using this report 10
1. Historical Land Use 11
1. Historical Industrial Sites 12
1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping 12
1.2 Additional Information – Historical Tank Database 14
1.3 Additional Information – Historical Energy Features Database 15
1.4 Additional Information – Historical Petrol and Fuel Site Database 16
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database 17
1.6 Potentially Infilled Land 17
2. Environmental Permits, Incidents and Registers Map 19
2. Environmental Permits, Incidents and Registers 20
2.1 Industrial Sites Holding Licences and/or Authorisations 20
2.1.1 Records of historic IPC Authorisations within 500m of the study site: 20
2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site: 20
2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site: 20
2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site: 20
2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site: 20
2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site: 21
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations: 21
2.1.8 Records of Licensed Discharge Consents within 500m of the study site: 22
2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site: 25
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site: 25
2.2 Dangerous or Hazardous Sites 25
2.3 Environment Agency Recorded Pollution Incidents 25
2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site: 25
2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site: 26
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990 26
3. Landfill and Other Waste Sites Map 27
3. Landfill and Other Waste Sites 28
3.1 Landfill Sites 28
3.1.1 Records from Environment Agency landfill data within 1000m of the study site: 28
3.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site: 28
3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site: 28
3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site: 29
3.2 Other Waste Sites 29
3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site: 29
3.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site: 30
4. Current Land Use Map 32
4. Current Land Uses 33
4.1 Current Industrial Data 33
4.2 Petrol and Fuel Sites 36
4.3 National Grid High Voltage Underground Electricity Transmission Cables 36
4.4 National Grid High Pressure Gas Transmission Pipelines 36
5. Geology 37
5.1 Artificial Ground and Made Ground 37

5.2 Superficial Ground and Drift Geology 37
5.3 Bedrock and Solid Geology 37
6 Hydrogeology and Hydrology 38
6a. Aquifer Within Superficial Geology 38
6b. Aquifer Within Bedrock Geology and Abstraction Licenses 39
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses 40
6d. Hydrogeology – Source Protection Zones within confined aquifer 41
6e. Hydrology – Detailed River Network and River Quality 42
6.Hydrogeology and Hydrology 43
6.1 Aquifer within Superficial Deposits 43
6.2 Aquifer within Bedrock Deposits 43
6.3 Groundwater Abstraction Licences 44
6.4 Surface Water Abstraction Licences 45
6.5 Potable Water Abstraction Licences 45
6.6 Source Protection Zones 46
6.7 Source Protection Zones within Confined Aquifer 46
6.8 Groundwater Vulnerability and Soil Leaching Potential 46
6.9 River Quality 46
6.9.1 Biological Quality: 47
6.9.2 Chemical Quality: 47
6.10 Detailed River Network 47
6.11 Surface Water Features 47
7a. Environment Agency Flood Map for Planning (from rivers and the sea) 48
7b. Environment Agency Risk of Flooding from Rivers and the Sea (RoFRaS) Map 49
7 Flooding 50
7.1 River and Coastal Zone 2 Flooding 50
7.2 River and Coastal Zone 3 Flooding 50
7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating 50
7.4 Flood Defences 50
7.5 Areas benefiting from Flood Defences 50
7.6 Areas benefiting from Flood Storage 51
7.7 Groundwater Flooding Susceptibility Areas 51
7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes 51
7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions? 51
7.8 Groundwater Flooding Confidence Areas 51
8. Designated Environmentally Sensitive Sites Map 52
8. Designated Environmentally Sensitive Sites 53
8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site: 53
8.2 Records of National Nature Reserves (NNR) within 2000m of the study site: 53
8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site: 53
8.4 Records of Special Protection Areas (SPA) within 2000m of the study site: 53
8.5 Records of Ramsar sites within 2000m of the study site: 53
8.6 Records of Ancient Woodland within 2000m of the study site: 54
8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site: 54
8.8 Records of World Heritage Sites within 2000m of the study site: 55
8.9 Records of Environmentally Sensitive Areas within 2000m of the study site: 55
8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site: 55
8.11 Records of National Parks (NP) within 2000m of the study site: 55
8.12 Records of Nitrate Sensitive Areas within 2000m of the study site: 55
8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site: 55

8.14 Records of Green Belt land within 2000m of the study site: 56
9. Natural Hazards Findings 57
9.1 Detailed BGS GeoSure Data 57
9.1.1 Shrink Swell 57
9.1.2 Landslides 57
9.1.3 Soluble Rocks 58
9.1.4 Compressible Ground 58
9.1.5 Collapsible Rocks 58
9.1.6 Running Sand 59
9.2 Radon 59
9.2.1 Radon Affected Areas 59
9.2.2 Radon Protection 59
10. Mining 60
10.1 Coal Mining 60
10.2 Non-Coal Mining 60
10.3 Brine Affected Areas 61
Contact Details 62
Standard Terms and Conditions 64

Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	35	4	14	33
1.2 Additional Information – Historical Tank Database	8	5	7	14
1.3 Additional Information – Historical Energy Features Database	2	11	20	31
1.4 Additional Information – Historical Petrol and Fuel Site Database	3	1	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	0
1.6 Potentially Infilled Land	27	0	15	20

Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	2	3
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	10	0	1	12
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	1
2.3 Environment Agency Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	4	3
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency Historic Landfill Sites	1	0	0	1	0	0
3.1.3 BGS/DoE Landfill Site Survey	1	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	5	0	0	0	0	0
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	1	0	Not searched	Not searched
3.2.2 Environment Agency Licensed Waste Sites	5	0	0	0	1	0

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	20	10	30	Not searched
4.2 Records of Petrol and Fuel Sites	1	0	1	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?	Yes
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	Yes
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology	0-500m
6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	Yes
6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Yes

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	1	9
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	1
6.6 Source Protection Zones (within 500m of the study site)	1	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	2	0	0	0	Not searched	Not searched

	On-site	0-50m	51-250	251-500	501-1000	1000-1500

Section 6: Hydrogeology and Hydrology	0-500m					
6.9 Is there any Environment Agency information on river quality within 1500m of the study site?	No	No	No	No	No	Yes
6.10 Detailed River Network entries within 500m of the site	0	0	0	0	Not searched	Not searched
6.11 Surface water features within 250m of the study site	Yes	No	Yes	Not searched	Not searched	Not searched

Section 7: Flooding	
7.1 Are there any Enviroment Agency Zone 2 floodplains within 250m of the study site?	No
7.2 Are there any Environment Agency Zone 3 floodplains within 250m of the study site	No
7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	Very Low
7.4 Are there any Flood Defences within 250m of the study site?	No
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
7.6 Are there any areas used for Flood Storage within 250m of the study site?	No
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Potential at Surface
7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	High

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	1	0	0	1	3	11
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	2	0	0	0	1	2
8.14 Records of Green Belt land	2	0	2	0	2	1

Section 9: Natural Hazards

9.1 What is the maximum risk of natural ground subsidence?	Moderate
9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?	Low
9.1.2 What is the maximum Landslides hazard rating identified on the study site?	Moderate
9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?	Moderate
9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?	Very Low
9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?	Very Low
9.1.6 What is the maximum Running Sand hazard rating identified on the study site?	Very Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary.

Section 10: Mining

10.1 Are there any coal mining areas within 75m of the study site?	No
10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary?	Yes
10.3 Are there any brine affected areas within 75m of the study site?	No

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

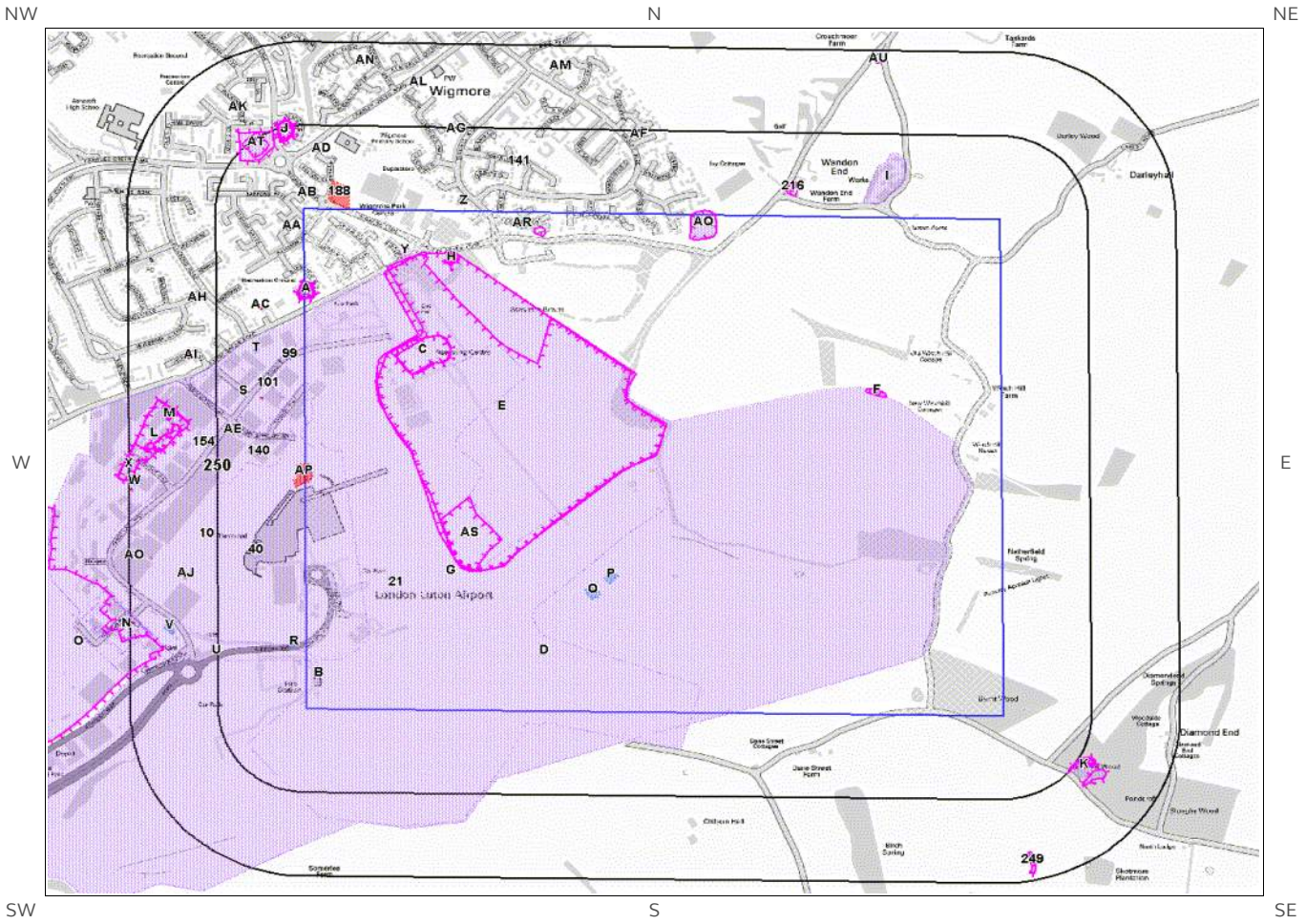
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier “A” on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as “Not Shown”.

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use



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Historical 1:10,000 and 1:10,560 scale mapping

Industrial Land Use

Potentially Infilled Land

Site Outline

Historical 1:2,500, 1:1,250 and 1:500 scale mapping

250
500
Search Buffers (m)

Energy Features

Petrol Stations

Tanks

Garages

1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 86

ID	Distance [m]	Direction	Use	Date
1A	0	On Site	Unspecified Pit	1951
2A	0	On Site	Unspecified Pit	1938
3A	0	On Site	Unspecified Pit	1922
4A	0	On Site	Unspecified Pit	1947
5A	0	On Site	Unspecified Pit	1938
6A	0	On Site	Unspecified Pit	1922
7A	0	On Site	Unspecified Pit	1938
8B	0	On Site	Fire Station	1991
9B	0	On Site	Fire Station	1985
10	0	On Site	Airport	1973
11Y	0	On Site	Police Station	1985
12C	0	On Site	Unspecified Pit	1991
13C	0	On Site	Unspecified Pit	1985
14H	0	On Site	Unspecified Pit	1951
15AS	0	On Site	Refuse Heap	1951
16D	0	On Site	Unspecified Tank	1947
17D	0	On Site	Unspecified Tank	1925
18E	0	On Site	Unspecified Workings	1991
19E	0	On Site	Unspecified Workings	1985
20E	0	On Site	Refuse Heap	1973
21	0	On Site	Airport	1951
22AQ	0	On Site	Unspecified Pit	1991
23F	0	On Site	Unspecified Quarry	1947
24F	0	On Site	Unspecified Quarry	1925
25G	0	On Site	Airport	1991
26G	0	On Site	Airport	1985
27A	0	On Site	Unspecified Pit	1938
28A	0	On Site	Unspecified Pit	1922
29H	0	On Site	Old Gravel Pit	1899
30H	0	On Site	Old Gravel Pit	1888
31H	0	On Site	Unspecified Pit	1925
32H	0	On Site	Old Gravel Pit	1899
33H	0	On Site	Old Gravel Pit	1879
34H	0	On Site	Unspecified Pit	1925

35H	0	On Site	Unspecified Pit	1947
36I	43	N	Unspecified Works	1973
37I	43	N	Unspecified Works	1985
38I	43	N	Unspecified Works	1991
39S	46	W	Engineering Works	1973
40	127	W	Unspecified Tank	1991
41AT	193	NW	Filter Bed	1973
42J	210	N	Unspecified Pit	1951
43J	211	N	Unspecified Pit	1938
44J	212	N	Unspecified Pit	1922
45J	212	N	Unspecified Pit	1947
46J	213	N	Old Chalk Pit	1900
47J	214	N	Unspecified Pit	1938
48J	214	N	Unspecified Pit	1922
49J	214	N	Unspecified Pit	1938
50J	214	N	Unspecified Pit	1922
51J	216	N	Unspecified Pit	1938
52K	245	SE	Lime Kiln	1881
53K	245	SE	Chalk Pit	1899
54K	259	SE	Unspecified Quarry	1925
55K	259	SE	Unspecified Quarry	1947
56K	259	SE	Chalk Pit	1899
57K	260	SE	Unspecified Quarry	1951
58K	303	SE	Unspecified Pit	1881
59L	328	W	Brick and Tile Works	1888
60L	328	W	Brick and Tile Works	1888
61L	329	W	Brick and Tile Works	1879
62L	329	W	Brick and Tile Works	1879
63L	349	W	Clay Pit	1888
64L	349	W	Clay Pit	1888
65L	350	W	Clay Pit	1879
66V	373	W	Unspecified Tanks	1991
67M	377	W	Brick Kiln	1888
68M	377	W	Brick Kiln	1888
69N	378	W	Infectious Diseases Hospital	1938
70N	378	W	Infectious Diseases Hospital	1938
71N	378	W	Infectious Diseases Hospital	1922
72N	378	W	Infectious Diseases Hospital	1922
73M	381	W	Brick Kiln	1879
74M	381	W	Brick Kiln	1879
75M	396	W	Lime Kiln	1888
76M	396	W	Lime Kiln	1888
77O	405	W	Sewage Farm	1922

78O	405	W	Sewage Farm	1922
79M	412	W	Lime Kiln	1879
80N	420	W	Infectious Diseases Hospital	1938
81N	425	W	Infectious Diseases Hospital	1947
82N	430	W	Infectious Diseases Hospital	1951
83N	435	W	Infectious Diseases Hospital	1922
84N	449	W	Infectious Diseases Hospital	1900
85N	449	W	Infectious Disease Hospital	1938
86AU	461	N	Unspecified Pit	1881

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 34

ID	Distance (m)	Direction	Use	Date
87C	0	On Site	Unspecified Tank	1990
88Q	0	On Site	Unspecified Tank	1993
89P	0	On Site	Unspecified Tank	1993
90C	0	On Site	Unspecified Tank	1993
91C	0	On Site	Unspecified Tank	1993
92P	0	On Site	Unspecified Tank	1993
93Q	0	On Site	Unspecified Tank	1993
94AR	0	On Site	Tanks	1971
95R	30	W	Septic Tanks	1968
96R	30	W	Septic Tanks	1973
97R	30	W	Tanks	1993
98R	31	W	Septic Tanks	1981
99	37	W	Tanks	1967
100S	102	W	Tanks	1967
101	103	W	Unspecified Tank	1981
102T	131	W	Unspecified Tank	1967
103T	132	W	Unspecified Tank	1981
104U	250	W	Tanks	1993
105U	250	W	Septic Tanks	1968
106U	250	W	Septic Tanks	1973
107U	251	W	Septic Tanks	1981
108V	374	W	Unspecified Tank	1993

109V	374	W	Unspecified Tank	1996
110V	374	W	Unspecified Tank	1996
111V	377	W	Tanks	1993
112W	483	W	Unspecified Tank	1979
113W	483	W	Unspecified Tank	1990
114W	484	W	Unspecified Tank	1993
115AO	485	W	Unspecified Tank	1993
116W	487	W	Unspecified Tank	1979
117W	487	W	Unspecified Tank	1990
118W	488	W	Unspecified Tank	1993
119X	499	W	Unspecified Tank	1979
120X	499	W	Unspecified Tank	1990

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 64

ID	Distance (m)	Direction	Use	Date
121Y	0	On Site	Electricity Substation	1993
122Y	0	On Site	Electricity Substation	1989
123Z	21	N	Electricity Substation	1993
124Z	21	N	Electricity Substation	1989
125AA	35	W	Electricity Substation	1985
126AA	36	W	Electricity Substation	1993
127AA	36	W	Electricity Substation	1993
128AA	36	W	Electricity Substation	1982
129AA	36	W	Electricity Substation	1982
130AA	36	W	Electricity Substation	1984
131AB	37	N	Gas Governor	1985
132AB	38	N	Gas Governor	1993
133AB	38	N	Gas Governor	1993
134S	119	W	Electricity Substation	1994
135AC	119	W	Electricity Substation	1993
136AC	119	W	Electricity Substation	1993
137AC	119	W	Electricity Substation	1985
138S	121	W	Electricity Substation	1987
139S	121	W	Electricity Substation	1991
140	128	W	Electricity Substation	1967
141	140	N	Electricity Substation	1989
142AD	169	N	Electricity Substation	1990
143AD	170	N	Electricity Substation	1984

144AE	202	W	Electricity Substation	1994
145AE	202	W	Electricity Substation	1967
146AE	203	W	Electricity Substation	1991
147AE	203	W	Electricity Substation	1987
148AE	203	W	Electricity Substation	1981
149AF	227	N	Electricity Substation	1993
150AF	227	N	Electricity Substation	1994
151AF	227	N	Electricity Substation	1995
152AG	234	N	Electricity Substation	1994
153AG	234	N	Electricity Substation	1996
154	284	W	Electricity Substation	1994
155AH	302	W	Electricity Substation	1993
156AH	302	W	Electricity Substation	1993
157AH	307	W	Electricity Substation	1985
158AI	322	W	Electricity Substation	1967
159AI	322	W	Electricity Substation	1987
160AI	322	W	Electricity Substation	1991
161AI	322	W	Electricity Substation	1981
162AI	322	W	Electricity Substation	1987
163AI	322	W	Electricity Substation	1994
164AJ	338	W	Electricity Substation	1981
165AJ	339	W	Electricity Substation	1996
166AJ	339	W	Electricity Substation	1996
167AJ	339	W	Electricity Substation	1993
168AJ	339	W	Electricity Substation	1973
169AK	346	NW	Electricity Substation	1990
170AK	352	NW	Electricity Substation	1984
171AK	352	NW	Electricity Substation	1979
172AL	372	N	Electricity Substation	1994
173AL	372	N	Electricity Substation	1996
174AM	428	N	Electricity Substation	1993
175AM	428	N	Electricity Substation	1994
176AM	428	N	Electricity Substation	1995
177AN	434	N	Electricity Substation	1994
178AN	434	N	Electricity Substation	1996
179AO	436	W	Electricity Substation	1993
180N	487	W	Electricity Substation	1976
181N	487	W	Electricity Substation	1993
182W	488	W	Electricity Substation	1990
183W	488	W	Electricity Substation	1979
184W	489	W	Electricity Substation	1993

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 4

ID	Distance (m)	Direction	Use	Date
185AP	0	On Site	Filling Station	1987
186AP	0	On Site	Filling Station	1991
187AP	0	On Site	Filling Station	1981
188	1	N	Filling Station	1984

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 0

Database searched and no data found.

1.6 Potentially Infilled Land

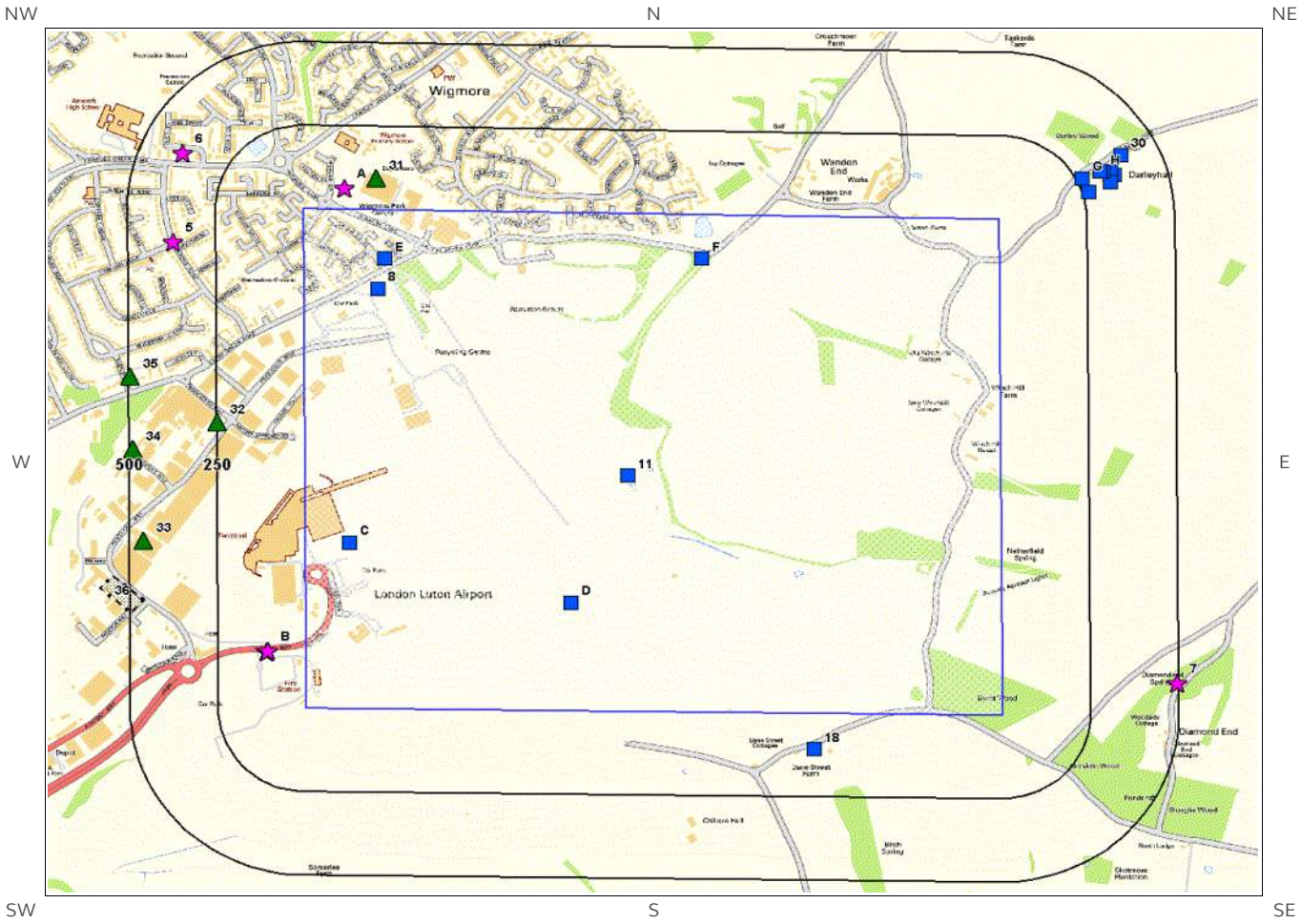
Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 62

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance(m)	Direction	Use	Date
189H	0	On Site	Old Gravel Pit	1899
190H	0	On Site	Old Gravel Pit	1879
191H	0	On Site	Unspecified Pit	1925
192H	0	On Site	Unspecified Pit	1947
193F	0	On Site	Unspecified Quarry	1947
194F	0	On Site	Unspecified Quarry	1925
195H	0	On Site	Unspecified Pit	1925
196A	0	On Site	Unspecified Pit	1947
197A	0	On Site	Unspecified Pit	1922
198A	0	On Site	Unspecified Pit	1938
199AQ	0	On Site	Unspecified Pit	1991
200AR	0	On Site	Pond	1879
201A	0	On Site	Unspecified Pit	1938
202A	0	On Site	Unspecified Pit	1922
203A	0	On Site	Unspecified Pit	1922
204H	0	On Site	Old Gravel Pit	1899
205H	0	On Site	Unspecified Pit	1951
206AS	0	On Site	Refuse Heap	1951
207C	0	On Site	Unspecified Pit	1985

208C	0	On Site	Unspecified Pit	1991
209E	0	On Site	Refuse Heap	1973
210E	0	On Site	Unspecified Workings	1991
211E	0	On Site	Unspecified Workings	1985
212A	0	On Site	Unspecified Pit	1938
213A	0	On Site	Unspecified Pit	1951
214A	0	On Site	Unspecified Pit	1938
215H	0	On Site	Old Gravel Pit	1888
216	61	N	Pond	1899
217AT	193	NW	Filter Bed	1973
218AT	203	NW	Pond	1985
219AT	203	NW	Pond	1991
220J	210	N	Unspecified Pit	1951
221J	211	N	Unspecified Pit	1938
222J	212	N	Unspecified Pit	1922
223J	212	N	Unspecified Pit	1947
224J	213	N	Old Chalk Pit	1900
225J	214	N	Unspecified Pit	1938
226J	214	N	Unspecified Pit	1922
227J	214	N	Unspecified Pit	1938
228J	214	N	Unspecified Pit	1922
229J	216	N	Unspecified Pit	1938
230K	245	SE	Chalk Pit	1899
231K	259	SE	Unspecified Quarry	1925
232K	259	SE	Chalk Pit	1899
233K	259	SE	Unspecified Quarry	1947
234K	260	SE	Unspecified Quarry	1951
235K	303	SE	Unspecified Pit	1881
236L	328	W	Brick and Tile Works	1888
237L	328	W	Brick and Tile Works	1888
238L	329	W	Brick and Tile Works	1879
239L	329	W	Brick and Tile Works	1879
240L	349	W	Clay Pit	1888
241L	349	W	Clay Pit	1888
242L	350	W	Clay Pit	1879
243M	377	W	Brick Kiln	1888
244M	377	W	Brick Kiln	1888
245M	381	W	Brick Kiln	1879
246M	381	W	Brick Kiln	1879
247O	405	W	Sewage Farm	1922
248O	405	W	Sewage Farm	1922
249	415	S	Pond	1881
250AU	461	N	Unspecified Pit	1881

2. Environmental Permits, Incidents and Registers Map



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- Site Outline
- Search Buffers (m) — 250 — 500
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

5

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
31	88	N	512075 222435	Address: Asda, Wigmore Lane, Stopsley, Luton, LU2 9TA Process: P02 Service Stations (1.2) Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices
32	249	W	511625 221704	Address: GKN Aerospace, Airport Way, LU2 9LU Process: P07 Coating (6.4) Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices
33	462	W	511414 221350	Address: Aerospace Composites, Luton Airport, LU2 9PQ Process: Coating & Enamelling Process Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices
34	490	W	511385 221625	Address: Airline Services, Provost Way, Luton, LU2 9PB Process: P10 Dry Cleaners Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices
35	496	W	511378 221843	Address: Kez's Dry Cleaners, 13 Eaton Green Road, LU2 9HE Process: P10 Dry Cleaners Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
8	0	On Site	512080 222110	Address: LUTON AIRPORT NORTHERN SOAKAWAY, PRESIDENT WAY, LONDON LUTON AIRPORT, LUTON, BEDFORDSHIRE, LU2 9PD Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRRP3221GC Permit Version: 1	Receiving Water: Status: NEW ISSUED UNDER EPR 2010 Issue date: 11/04/2012 Effective Date: 11-Apr-2012 Revocation Date: -
9C	0	On Site	512000 221350	Address: THE PAY STATION AT CAR PARK A, LOND, THE PAY STATION AT CAR PARK A, L, ONDON LUTON AIRPORT, LUTON, BEDF, ORDSHIRE, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1315 Permit Version: 1	Receiving Water: Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 04/03/1994 Effective Date: 04-Mar-1994 Revocation Date: 18/01/2006
10C	0	On Site	512000 221350	Address: THE PAY STATION AT CAR PARK A, LOND, THE PAY STATION AT CAR PARK A, L, ONDON LUTON AIRPORT, LUTON, BEDF, ORDSHIRE, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1315 Permit Version: 2	Receiving Water: Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 19/01/2006 Effective Date: 19-Jan-2006 Revocation Date: 19/01/2018
11	0	On Site	512790 221550	Address: LONDON LUTON AIRPORT OPERATIONS LTD, NAVIGATION HOUSE, LONDON LUTON AIRPORT, LUTON, -, LU2 9LY Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CANM.0448 Permit Version: 1	Receiving Water: Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/09/2002 Effective Date: 27-Sep-2002 Revocation Date: -
12D	0	On Site	512630 221170	Address: LUTON AIRPORT, LUTON, BEDFORDSHIRE, LUTON AIRPORT, LUTON, BEDFORDSHI, RE, -, - Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: CNTM.0180 Permit Version: 2	Receiving Water: Status: VARIED UNDER EPR 2010 Issue date: 31/05/2013 Effective Date: 31-May-2013 Revocation Date: -
13D	0	On Site	512630 221170	Address: LUTON AIRPORT, LUTON, BEDFORDSHIRE, LUTON AIRPORT, LUTON, BEDFORDSHI, RE, -, - Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: CNTM.0180 Permit Version: 1	Receiving Water: Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 22/04/1992 Effective Date: 22-Apr-1992 Revocation Date: 30/05/2013
14E	0	On Site	512100 222200	Address: Wigmore Bottom, Luton, Wigmore Bottom, Luton, -, - Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2256 Permit Version: 1	Receiving Water: Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02-Nov-1989 Revocation Date: 02/09/2010

ID	Distance (m)	Direction	NGR	Details	
15E	0	On Site	512100 222200	Address: Wigmore Bottom, Luton, Wigmore Bottom, Luton, -, - Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2256 Permit Version: 2	Receiving Water: Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03-Sep-2010 Revocation Date: 19/08/2014
16F	0	On Site	513000 222200	Address: Wanden End, Luton, Wanden End, Luton, -, -, LU2 8SN Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2175 Permit Version: 2	Receiving Water: Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03-Sep-2010 Revocation Date: -
17F	0	On Site	513000 222200	Address: Wanden End, Luton, Wanden End, Luton, -, -, LU2 8SN Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2175 Permit Version: 1	Receiving Water: Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02-Nov-1989 Revocation Date: 02/09/2010
18	109	S	513320 220730	Address: DANE STREET FARMHOUSE WEST, DANE ST, DANE STREET FARMHOUSE WEST, DANE, STREET, PETERS GREEN, LUTON, BE, DFORDSHIRE, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1324 Permit Version: 1	Receiving Water: Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 04/03/1994 Effective Date: 04-Mar-1994 Revocation Date: -
19G	265	NE	514080 222440	Address: THE FOX, DARLEYHALL, LUTON, BEDS, THE FOX, DARLEYHALL, LUTON, BEDS, -, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0128 Permit Version: 2	Receiving Water: Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21-Dec-2012 Revocation Date: -
20G	265	NE	514080 222440	Address: THE FOX, DARLEYHALL, LUTON, BEDS, THE FOX, DARLEYHALL, LUTON, BEDS, -, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0128 Permit Version: 1	Receiving Water: Status: TRANSFERRED FROM WRA 1963 Issue date: 09/02/1968 Effective Date: 09-Feb-1968 Revocation Date: 20/12/2012
21G	269	E	514100 222400	Address: FIELDVIEW, DARLEYHALL, LUTON, BEDS, FIELDVIEW, DARLEYHALL, LUTON, BE, DS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0242 Permit Version: 1	Receiving Water: Status: TRANSFERRED FROM WRA 1963 Issue date: 09/10/1970 Effective Date: 09-Oct-1970 Revocation Date: -
22H	319	NE	514130 222460	Address: SUN COTTAGE, DARLEYHALL, LUTON, BED, SUN COTTAGE, DARLEYHALL, LUTON,, BEDS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0244 Permit Version: 1	Receiving Water: Status: TRANSFERRED FROM WRA 1963 Issue date: 09/10/1970 Effective Date: 09-Oct-1970 Revocation Date: -

ID	Distance (m)	Direction	NGR	Details	
23H	328	NE	514140 222460	Address: PRIMROSE HILL, DARLEYHALL, LUTON, B, PRIMROSE HILL, DARLEYHALL, LUTON, , BEDS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0245 Permit Version: 1	Receiving Water: Status: TRANSFERRED FROM WRA 1963 Issue date: 09/10/1970 Effective Date: 09-Oct-1970 Revocation Date: 20/12/2012
24H	328	NE	514140 222460	Address: PRIMROSE HILL, DARLEYHALL, LUTON, B, PRIMROSE HILL, DARLEYHALL, LUTON, , BEDS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0245 Permit Version: 2	Receiving Water: Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21-Dec-2012 Revocation Date: -
25H	335	E	514160 222430	Address: WAGGON COTTAGE, DARLEY HALL, LUTON,, WAGGON COTTAGE, DARLEY HALL, LUT, ON, BEDS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0131 Permit Version: 1	Receiving Water: Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 08/03/1968 Effective Date: 08-Mar-1968 Revocation Date: 01/10/1996
26H	346	NE	514160 222460	Address: PRIMROSE HILL, DARLEYHALL, LUTON, B, PRIMROSE HILL, DARLEYHALL, LUTON, , BEDS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0117 Permit Version: 1	Receiving Water: Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 08/12/1967 Effective Date: 08-Dec-1967 Revocation Date: 01/10/1996
27H	353	E	514172 222450	Address: 4,5 AND 6 DARLEY HALL, LUTON, LUTON, BEDFORDSHIRE, LU2 8PP, LU2 8PP Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CANM.1139 Permit Version: 1	Receiving Water: Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/07/2006 Effective Date: 25-Jul-2006 Revocation Date: -
28H	353	E	514172 222450	Address: 4,5 AND 6 DARLEY HALL, LUTON, LUTON, BEDFORDSHIRE, LU2 8PP, LU2 8PP Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CANM.1139 Permit Version: 1	Receiving Water: Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/07/2006 Effective Date: 25-Jul-2006 Revocation Date: -
29H	353	E	514172 222450	Address: 4,5 AND 6 DARLEY HALL, LUTON, LUTON, BEDFORDSHIRE, LU2 8PP, LU2 8PP Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CANM.1139 Permit Version: 1	Receiving Water: Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/07/2006 Effective Date: 25-Jul-2006 Revocation Date: -
30	395	NE	514190 222510	Address: OAKWOOD, DARLEY HALL, LUTON, BEDS, ., LU2 8PP Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CATM.3579 Permit Version: 1	Receiving Water: Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 16/07/1999 Effective Date: 30-Apr-1999 Revocation Date: -

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 1

The following COMAH & NIHHS Authorisation records provided by the Health and Safety Executive are represented as polygons or buffered points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	Company	Address	Operational Status	Tier
36	460	W	Shell Uk Oil Products Ltd	Shell Uk Oil Products Ltd, Luton Airport, Terminal Building, Percival Way, Luton, Bedfordshire, LU2 9LU	Current COMAH Site	COMAH Lower Tier Operator

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2.3 Environment Agency Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

7

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
1A	62	N	511984 222410	Incident Date: 22-Aug-2002 Incident Identification: 102538 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
2A	62	N	511984 222410	Incident Date: 22-Aug-2002 Incident Identification: 102538 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Distance (m)	Direction	NGR	Details	
3B	110	W	511768 221024	Incident Date: 16-Jan-2002 Incident Identification: 52824 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4B	114	W	511764 221022	Incident Date: 13-Oct-2001 Incident Identification: 36419 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
5	373	W	511499 222251	Incident Date: 24-Feb-2014 Incident Identification: 1211679 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
6	385	NW	511524 222517	Incident Date: 22-Feb-2014 Incident Identification: 1211112 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
7	494	E	514348 220929	Incident Date: 03-Jun-2002 Incident Identification: 82690 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

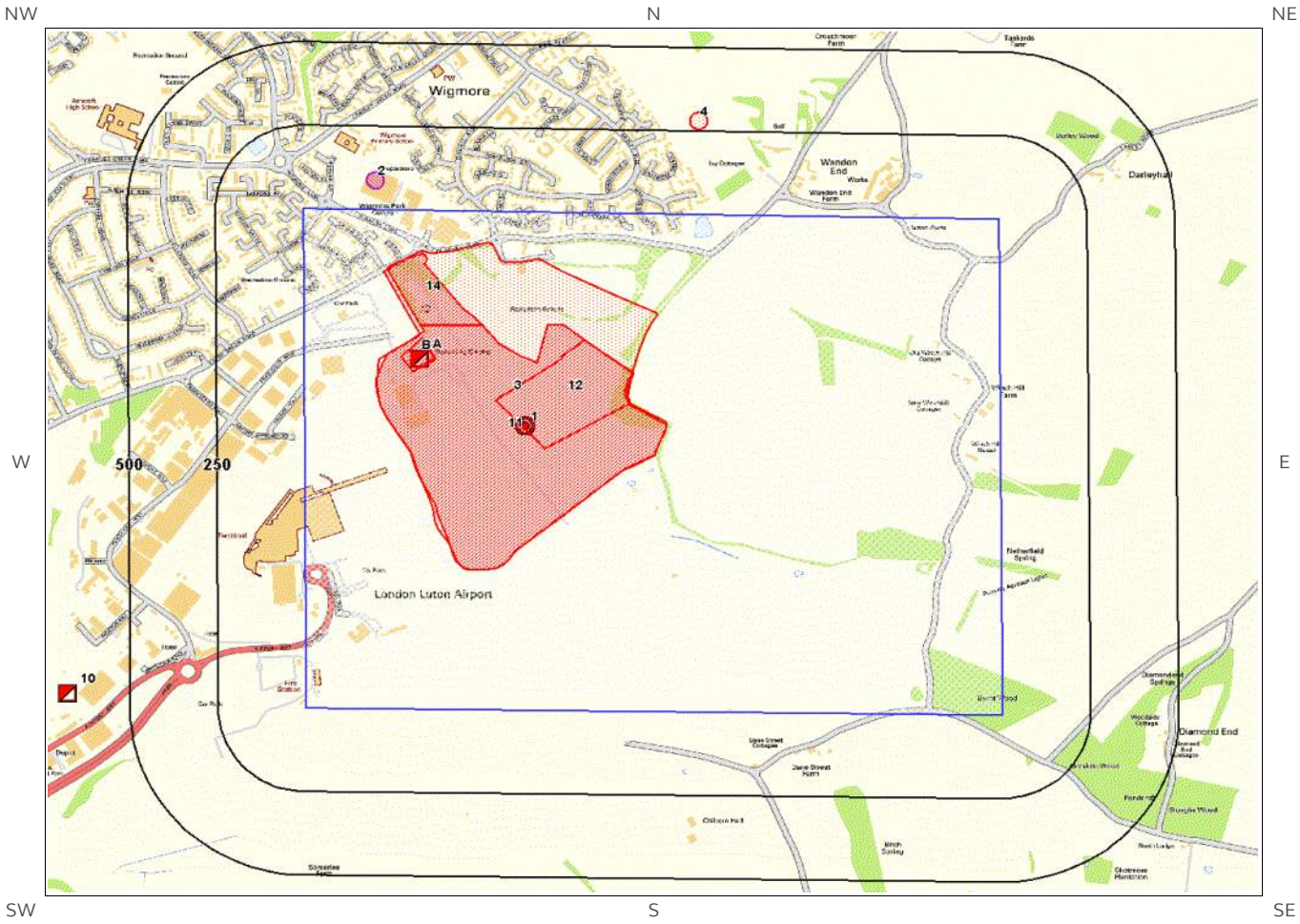
Database searched and no data found.

2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site? 0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



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Site Outline

250 500 Search Buffers (m)

E.A. Active Landfill

E.A. Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

E.A. Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site:

2

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
3	0	On Site	512400 221700	Site Address: Luton Airport, Eaton Green Road, Luton, Bedfordshire Waste Licence: - Site Reference: 7/1976, 32/1993 Waste Type: Inert, Industrial, Commercial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Hold Address: - Operator: Luton County Borough Council First Recorded: 01-Jan-1937 Last Recorded: 01-Jan-1978
4	255	N	512900 222600	Site Address: Wandon End Farm, Luton, Bedfordshire Waste Licence: Yes Site Reference: 91/261 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 05-Aug-1991 Licence Surrendered: 31-Jan-1993 Licence Hold Address: - Operator: - First Recorded: 05-Aug-1991 Last Recorded: 31-Jan-1993

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

1

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
1	0	On Site	512500.0 221700.0	Address: Town Refuse Tip, Eaton Grn Rd, Luton, Beds BGS Number: 1251.0	Risk: Risk to major aquifer Waste Type: N/A

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

5

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
11	0	On Site	512489 221635	Refuse Tip	1971 mapping	Polygon
12	0	On Site	512612 221794	Landfill Site	1990 mapping	Polygon
13B	0	On Site	512205 221918	Public Refuse Tip	1990 mapping	Polygon
14	0	On Site	512243 222107	Refuse Tip	1971 mapping	Polygon
15B	0	On Site	512196 221912	Public Refuse Tip	1993 mapping	Polygon

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

1

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details		
2	63	N	512074 222435	Type of Site: Recycling Area Site Address: Asda Stores Ltd,Wigmore Lane, Wigmore Park Centre, LUTON, Bedfordshire, LU2 9TA	Planning Application Reference: 09/00213/FUL Date: 02/09/2009	Further Details: Scheme comprises installation of 2 security barriers and relocation of recycling area and trolley bay. An application (ref: 09/00213/FUL) for detailed planning permission was granted by Luton B.C. A detailed planning application has been granted. Data Source: Historic Planning Application Data Type: Point

3.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site:

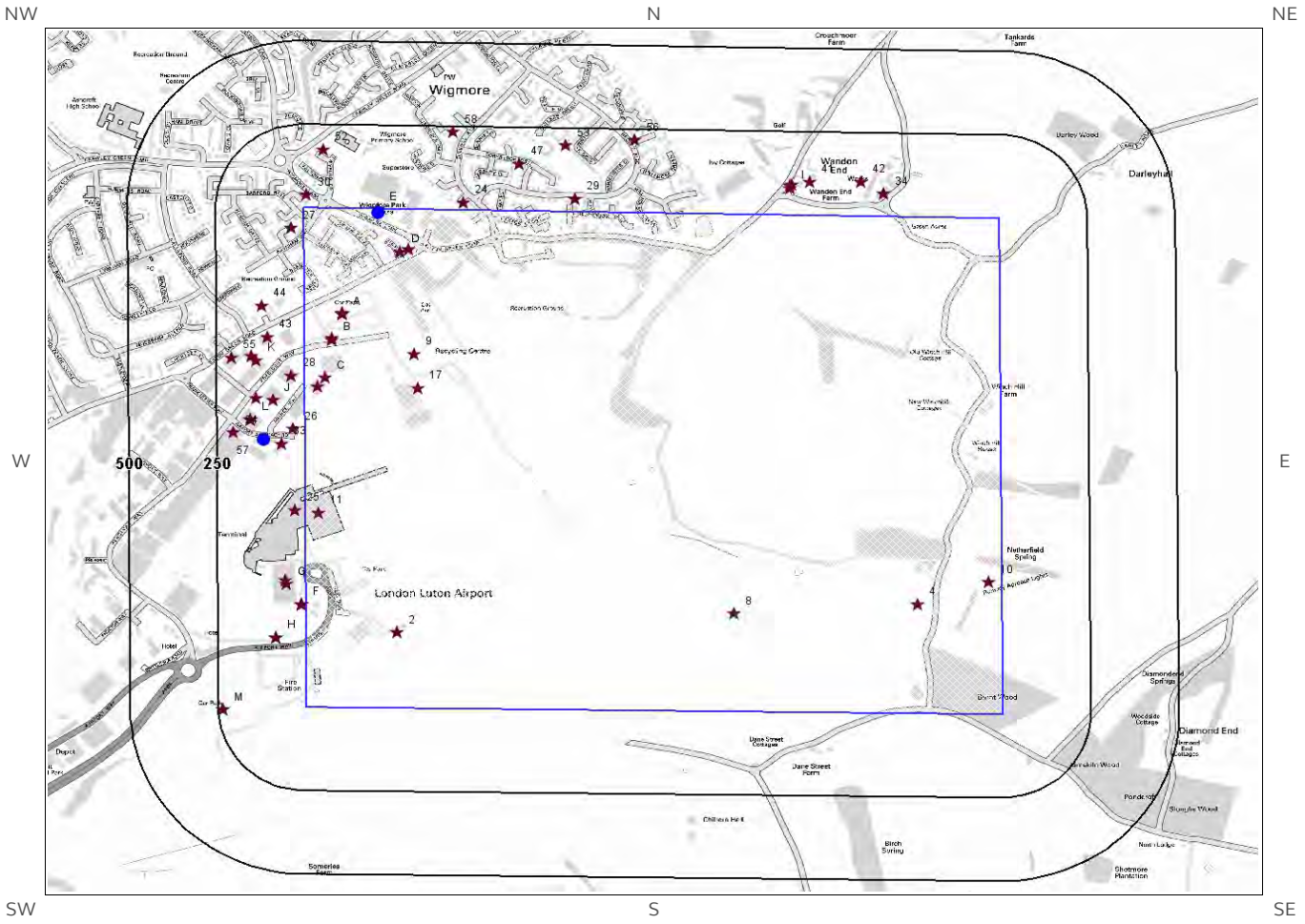
6

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
5A	0	On Site	512200 221900	Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: - Operator: Waste Recycling Limited Waste Management licence No: 80489 Annual Tonnage: 0.0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: "Luton Tidy Tip, Eaton Green Road Ca Site" Correspondence Address: -, Waste Recycling Group, Sutton Courtenay Lanfill Site, Appleford Sidings, Abingdon, Oxon, OX14 4PW
6A	0	On Site	512200 221900	Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: - Operator: Waste Recycling Ltd Waste Management licence No: 80489 Annual Tonnage: 0.0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: "Luton Tidy Tip, Eaton Green Road Ca Site" Correspondence Address: -, Waste Recycling Group, Sutton Courtenay Lanfill Site, Appleford Sidings, Abingdon, Oxon, OX14 4PW
7A	0	On Site	512200 221900	Site Address: Land/ Premises At, Eaton Green Road, Luton, Bedfordshire, LU2 9NW Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: EA/EPR/XP3597NS/V002 Operator: Waste Recycling Ltd Waste Management licence No: 80489 Annual Tonnage: 24999.0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified: 07/12/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Eaton Green Civic Amenity Site Correspondence Address: -, -
8A	0	On Site	512200 221900	Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LUT006 EPR reference: - Operator: Luton Borough Council Waste Management licence No: 80489 Annual Tonnage: 0.0	Issue Date: 01/04/1993 Effective Date: 31/05/2001 Modified: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: "Luton Tidy Tip, Eaton Green Road Ca Site" Correspondence Address: Mr R Taafe T/A C A Management Services, Waste Management Div, Central Depot, Kingsway, Luton, Beds, LU4 8AU

ID	Distance (m)	Direction	NGR	Details	
9A	0	On Site	512200 221900	Site Address: Eaton Green H W R C, Eaton Green Road, Luton, Bedfordshire, LU2 9HB Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: EA/EPR/XP3597NS/V004 Operator: F C C Recycling (U K) Limited Waste Management licence No: 80489 Annual Tonnage: 24999.0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified: 27/09/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Eaton Green Household Waste Recycling Centre Correspondence Address: -, -
10	679	W	511200 220900	Site Address: Andy Ronald, Central Services, Kimpton Road, Luton, Bedfordshire, LU2 0TY Type: In-House Storage Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VAU001 EPR reference: EA/EPR/LP3197NX/V003 Operator: Vauxhall Motors Ltd Waste Management licence No: 80459 Annual Tonnage: 75000.0	Issue Date: 22/04/1981 Effective Date: - Modified: 30/06/1997 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC Site Name: Vauxhall Airport Way (Kimpton Lane) Correspondence Address: -, -

4. Current Land Use Map



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Site Outline

Search Buffers (m)
250
500

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 60

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1D	0	On Site	Electricity Sub Station	512142 222220	LU2	Electrical Features	Infrastructure and Facilities
2	0	On Site	Electricity Sub Station	512135 221079	LU2	Electrical Features	Infrastructure and Facilities
3A	0	On Site	Hertz Car Hire	511980 222033	Reception Building, 250 Presidentary Way, London Luton Airport, Luton, LU2 9LY	Vehicle Hire and Rental	Hire Services
4	0	On Site	Air Light Beacons	513613 221164	LU2	Aeronautical Features	Air
5B	0	On Site	Electricity Sub Station	511951 221957	LU2	Electrical Features	Infrastructure and Facilities
6C	0	On Site	Electricity Sub Station	511930 221842	LU2	Electrical Features	Infrastructure and Facilities
7A	0	On Site	National Car Rental	511980 222037	Building 250, President Way, London Luton Airport, Luton, LU2 9LY	Vehicle Hire and Rental	Hire Services
8	0	On Site	Wind Sock	513091 221136	LU2	Aeronautical Features	Air
9	0	On Site	Refuse Tip	512184 221913	LU2	Refuse Disposal Facilities	Infrastructure and Facilities
10	0	On Site	Air Light Beacons	513814 221230	LU2	Aeronautical Features	Air
11	0	On Site	London Luton Airport	511913 221438	LU2	Airports and Landing Strips	Air
12A	0	On Site	Enterprise Rent-A-Car	511980 222034	London Luton Airport External, London Luton Airport External, Spittlesea Road, Luton, Bedfordshire, Lu2 9nz, LU2	Vehicle Hire and Rental	Hire Services
13B	0	On Site	Electricity Sub Station	511949 221962	LU2	Electrical Features	Infrastructure and Facilities
14A	0	On Site	Alamo Rent A Car	511978 222032	President Way, Luton, LU2 9NL	Vehicle Hire and Rental	Hire Services
15A	0	On Site	Europcar	511978 222032	President Way, Luton, LU2 9NL	Vehicle Hire and Rental	Hire Services
16C	0	On Site	Harrods Aviation	511908 221816	Hangar 129, President Way, Luton, LU2 9NW	Aeroplanes	Industrial Products
17	0	On Site	Electricity Sub Station	512195 221811	LU2	Electrical Features	Infrastructure and Facilities

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
18D	0	On Site	Pumping Station	512166 222226	LU2	Water Pumping Stations	Industrial Features
19E	0	N	Asda Luton Automat	512080 222347	Wigmore Lane, Wigmore, Luton, Bedfordshire, LU2 8DJ	Petrol and Fuel Stations	Road and Rail
20E	0	N	Asda Petrol	512082 222347	Wigmore Hall Shopping Centre, Wigmore Lane, Luton, LU2 9TA	Petrol and Fuel Stations	Road and Rail
21F	14	W	Europe Car	511863 221164	Navigation House, Airport Way, London Luton Airport, Luton, LU2 9LY	Vehicle Hire and Rental	Hire Services
22F	14	W	London Luton Airport	511863 221164	Navigation House, Airport Way, London Luton Airport, Luton, LU2 9LY	Vehicle Hire and Rental	Hire Services
23F	14	W	London Luton Airport Operations Ltd	511863 221164	Navigation House, Airport Way, London Luton Airport, Luton, LU2 9LY	Airports and Landing Strips	Air
24	24	N	Electricity Sub Station	512324 222367	LU2	Electrical Features	Infrastructure and Facilities
25	31	W	Avis Rent A Car	511845 221446	London Luton Airport External, London Luton Airport External, Spittlesea Road, Luton, Bedfordshire, Lu2 9nz, LU2	Vehicle Hire and Rental	Hire Services
26	36	W	Electricity Sub Station	511839 221690	LU2	Electrical Features	Infrastructure and Facilities
27	36	W	Electricity Sub Station	511835 222291	LU2	Electrical Features	Infrastructure and Facilities
28	39	W	Reed Aviation Ltd	511834 221849	Gate 8, Prince Way, Luton, LU2 9PD	Airlines and Airline Services	Transport, Storage and Delivery
29	41	N	Electricity Sub Station	512639 222379	LU2	Electrical Features	Infrastructure and Facilities
30	41	N	Gas Governor Station	511877 222391	LU2	Gas Features	Infrastructure and Facilities
31G	56	W	Budget Rent A Car	511821 221224	London Luton Airport External, London Luton Airport External, Spittlesea Road, Luton, Bedfordshire, Lu2 9nz, LU2	Vehicle Hire and Rental	Hire Services
32G	59	W	Alamo Rent A Car	511818 221236	London Luton Airport External, London Luton Airport External, Spittlesea Road, Luton, Bedfordshire, Lu2 9nz, LU2	Vehicle Hire and Rental	Hire Services
33	66	W	Landmark Aviation	511808 221644	Britannia House 135, Frank Lester Way, London Luton Airport, Luton, LU2 9NQ	Aircraft Charters	Contract Services
34	69	N	A T Oliver & Sons Ltd	513516 222393	Wandon End, Luton, LU2 8NY	Agricultural Machinery and Goods	Industrial Products
35I	82	N	Silo	513249 222410	LU2	Hoppers and Silos	Farming
36H	87	W	Pylon	511791 221065	LU2	Electrical Features	Infrastructure and Facilities
37H	87	W	Mast	511790 221065	LU2	Telecommunications Features	Infrastructure and Facilities

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
38I	89	N	Silo	513249 222417	LU2	Hoppers and Silos	Farming
39J	90	W	Dot Group International	511784 221774	Unit 2, Prince Way, Luton, LU2 9PD	Office and Shop Equipment	Industrial Products
40I	92	N	Silo	513254 222420	LU2	Hoppers and Silos	Farming
41	102	N	Pump	513307 222429	LU2	Water Pumping Stations	Industrial Features
42	105	N	Works	513450 222430	LU2	Unspecified Works Or Factories	Industrial Features
43	105	W	Z F Electronics UK Ltd	511767 221965	Unit L Airport Executive Park, President Way, Luton, LU2 9NY	Electrical Components	Industrial Products
44	123	W	Electricity Sub Station	511750 222059	LU2	Electrical Features	Infrastructure and Facilities
45K	138	W	Honeywell Aerospace	511735 221894	65, President Way, Luton, LU2 9NL	Aviation Engineers	Engineering Services
46J	138	W	Electricity Sub Station	511736 221782	LU2	Electrical Features	Infrastructure and Facilities
47	143	N	Electricity Sub Station	512482 222483	LU2	Electrical Features	Infrastructure and Facilities
48K	153	W	Air Cargo & Container Services	511720 221907	Unit H, President Way, Luton, LU2 9NL	Distribution and Haulage	Transport, Storage and Delivery
49L	156	W	A E M	511718 221717	De Havilland House, President Way, Luton, LU2 9NL	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
50L	156	W	Kensal Handling System Ltd	511718 221717	Kensal House, President Way, Luton, LU2 9NR	Lifting and Handling Equipment	Industrial Products
51L	156	W	First Class Cars	511718 221717	Kensal House, President Way, Luton, LU2 9NL	Vehicle Hire and Rental	Hire Services
52	177	N	Electricity Sub Station	511926 222526	LU2	Electrical Features	Infrastructure and Facilities
53	200	N	Southeast Executive Chauffeur Services	512612 222537	41, Emmer Green, Luton, LU2 8UH	Vehicle Hire and Rental	Hire Services
54	205	W	Electricity Sub Station	511670 221679	LU2	Electrical Features	Infrastructure and Facilities
55	209	W	Moog Fernau Ltd	511664 221902	Unit C Airport Executive Park, President Way, Luton, LU2 9NY	Aviation Engineers	Engineering Services
56	219	N	Electricity Sub Station	512810 222554	LU2	Electrical Features	Infrastructure and Facilities
57	230	W	Pylon	511645 221587	LU2	Electrical Features	Infrastructure and Facilities
58	235	N	Electricity Sub Station	512293 222578	LU2	Electrical Features	Infrastructure and Facilities
59M	237	W	Luton Minibus	511642 220848	Long Stay South Car Park, Airport Way, London Luton Airport, Luton, LU2 9QT	Vehicle Hire and Rental	Hire Services

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
60M	237	W	London Airport	511641 220848	Long Stay South Car Park, Airport Way, London Luton Airport, Luton, LU2 9QT	Vehicle Hire and Rental	Hire Services

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 2

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
61E	0	On Site	512081 222334	Asda	Asda Luton Automat, Wigmore Lane, Wigmore Lane, Wigmore, Luton, Bedfordshire, LU2 9TA	No	Open
62L	118	W	511757 221656	Obsolete	Q8 Luton, Airport Approach Road, Airport Approach Road, Luton, Bedfordshire, LU2 9PF	Not Applicable	Obsolete

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
MGR-MGRD	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
MGR-MGRD	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
LOFT	LOWESTOFT FORMATION	DIAMICTON
CWF	CLAY-WITH-FLINTS FORMATION	CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME]
HEAD	HEAD	CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME]

5.3 Bedrock and Solid Geology

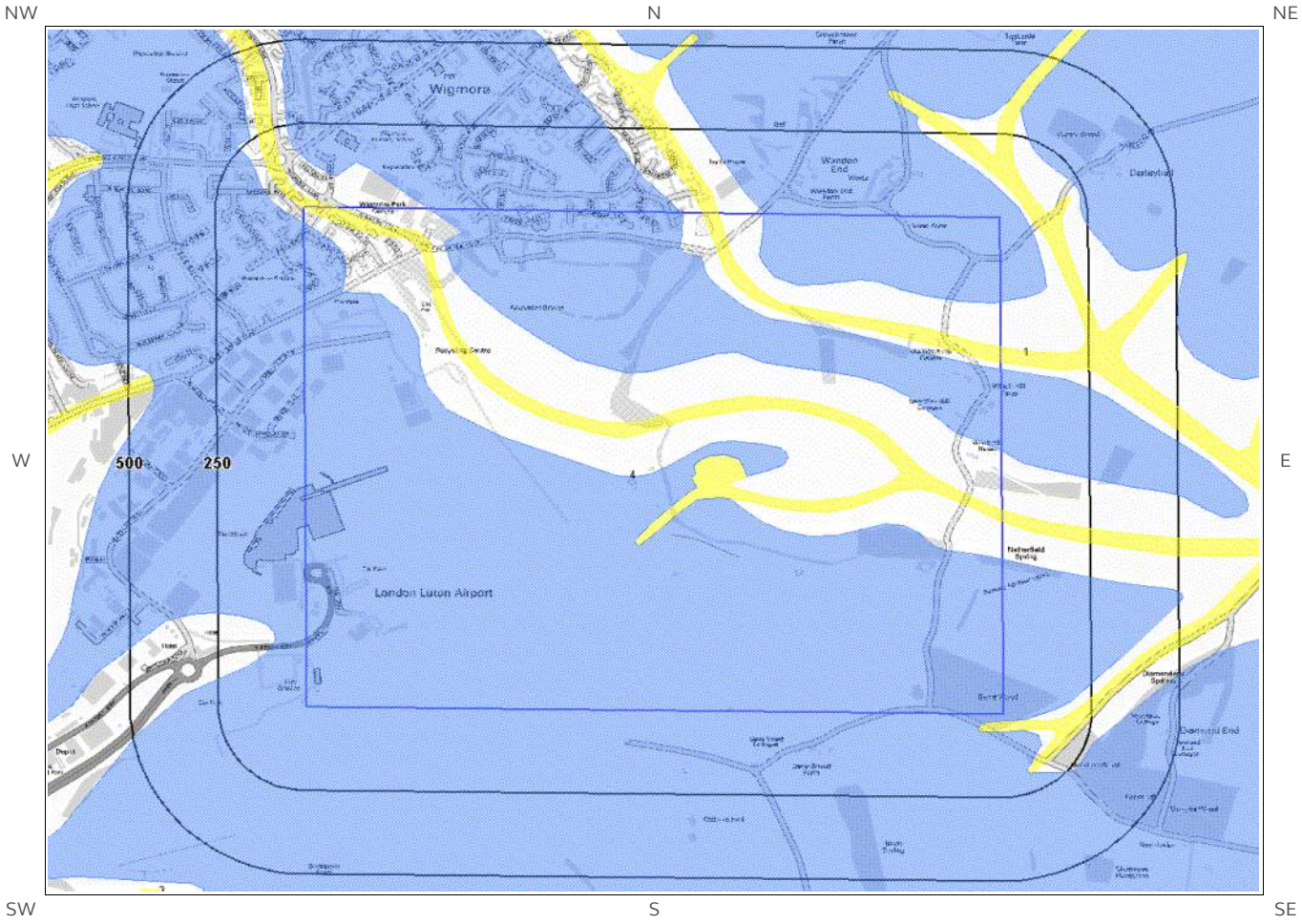
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED)	CHALK
CKR-CHLK	CHALK ROCK MEMBER	CHALK
LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED)	CHALK

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

6a. Aquifer Within Superficial Geology



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Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

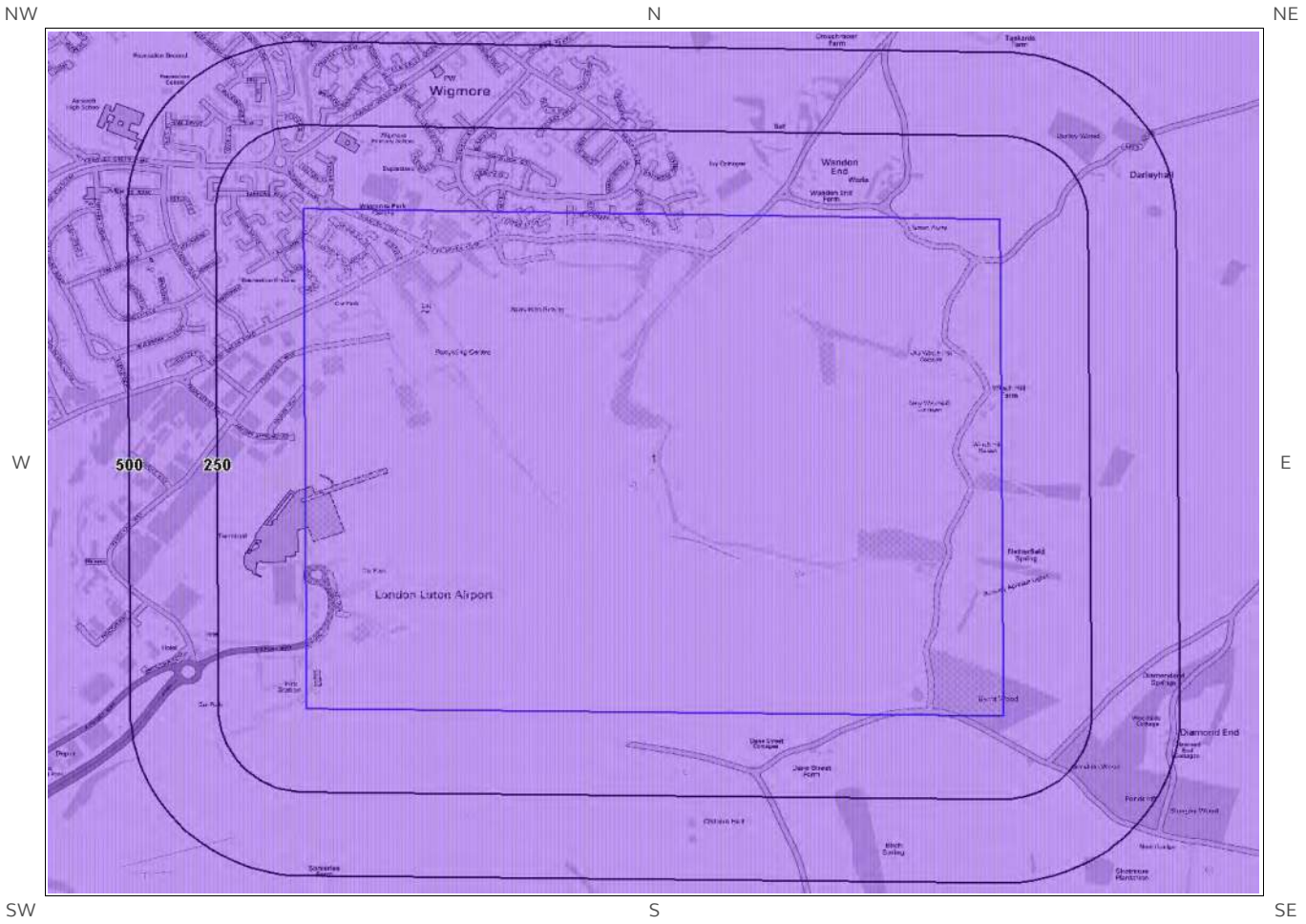
Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

6b. Aquifer Within Bedrock Geology and Abstraction Licenses



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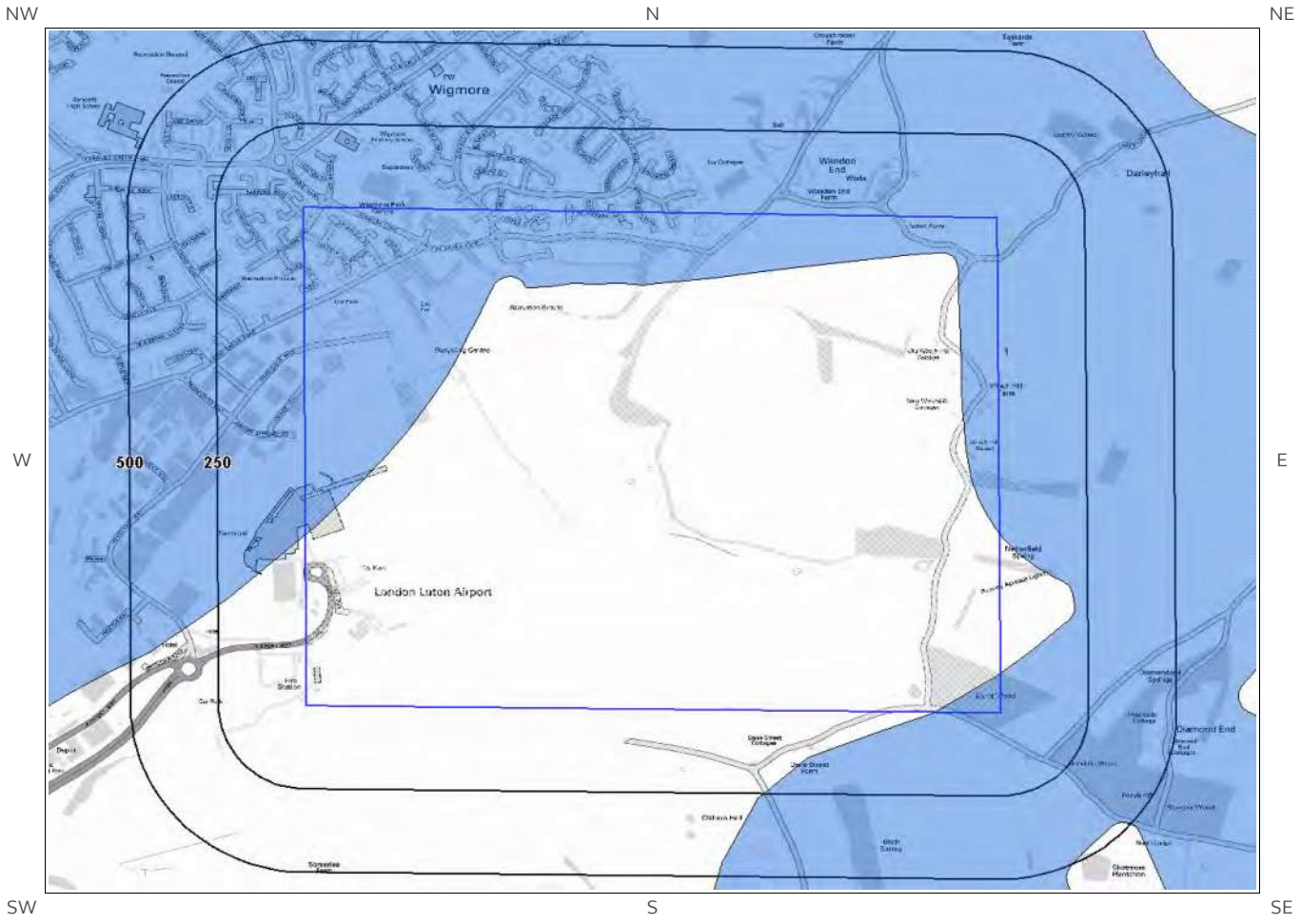
Site Outline
250
500
Search Buffers (m)
Principal Aquifer
Secondary (A) Aquifer - Permeable Layers
Secondary (B) Aquifer - Lower Permeability Layers
Groundwater Abstraction Licence
Secondary Aquifer - Undifferentiated Layers
Unproductive
Unknown (lakes and landslip)
Surface Water Abstraction Licence

6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



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Site Outline

250
500
Search Buffers (m)

Source Protection Zone 1 - Inner Catchment

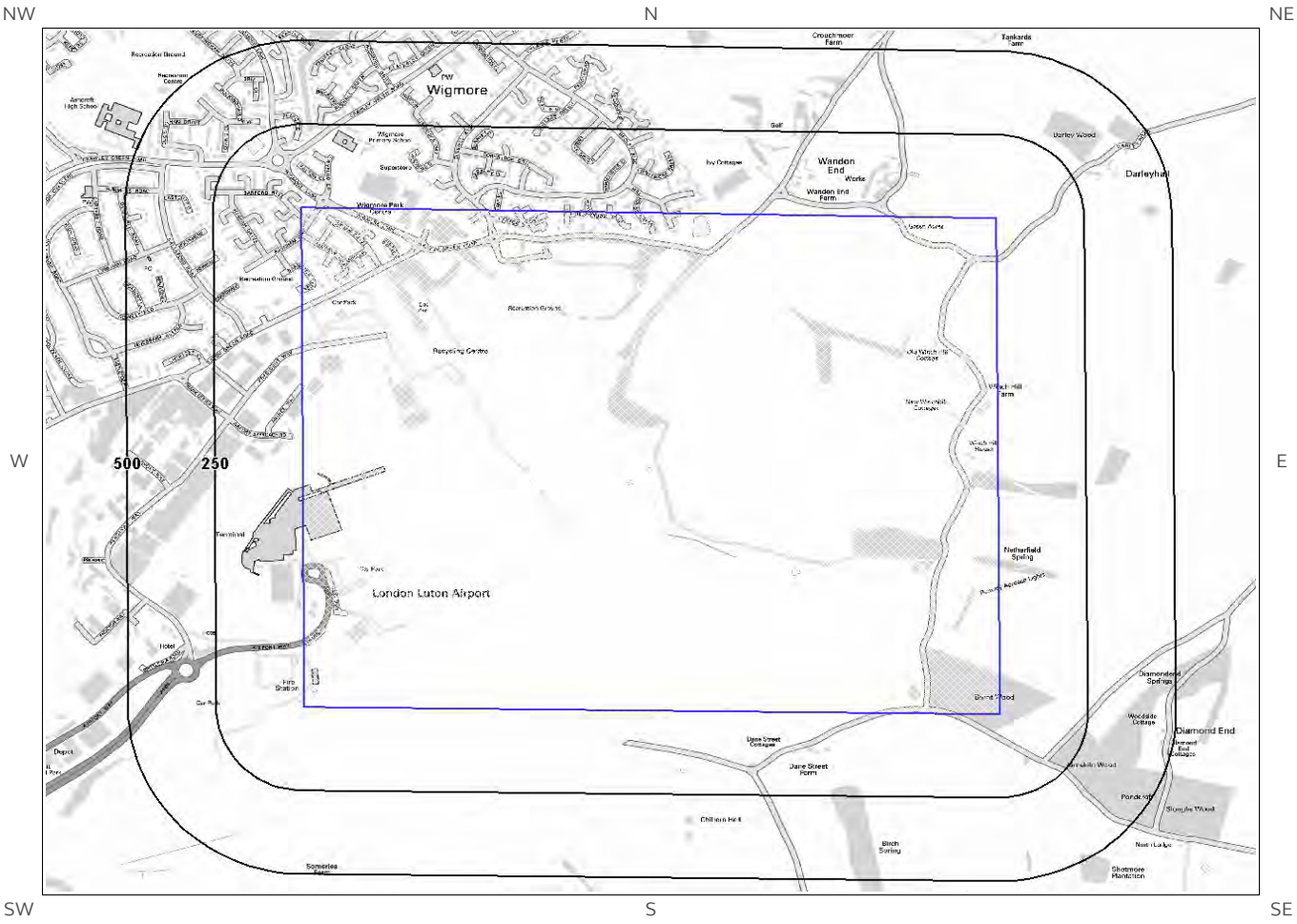
Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

6d. Hydrogeology – Source Protection Zones within confined aquifer



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Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2C - Outer Catchment within Confined Aquifer

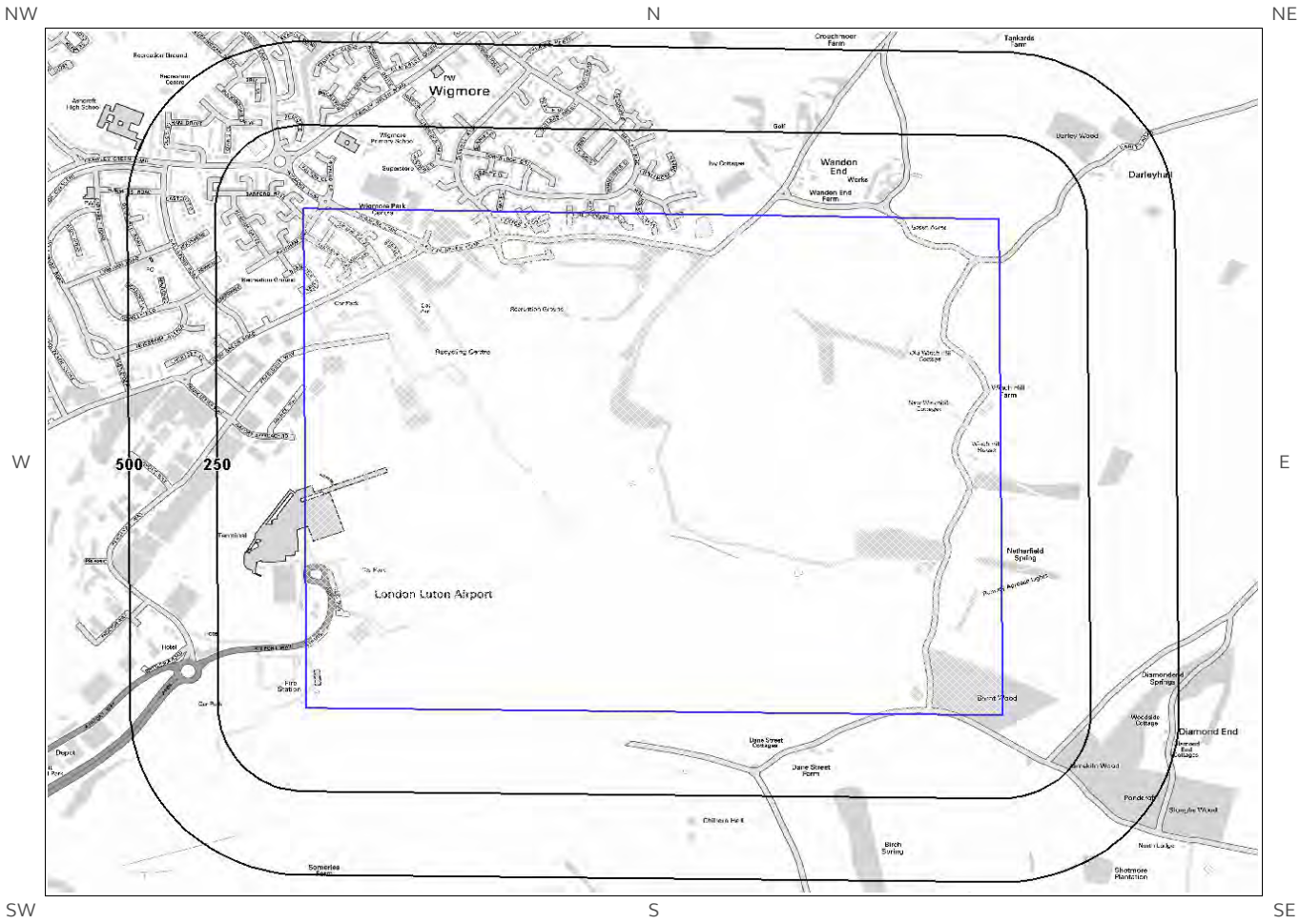
Source Protection Zone 3C - Total Catchment within Confined Aquifer

Potable Water Abstraction Licence

Site Outline

250
500
Search Buffers (m)

6e. Hydrology – Detailed River Network and River Quality



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Site Outline

250 Search Buffers (m)
500

Primary River
Secondary River
Tertiary River
Lake/Reservoir
Underground River (inferred)
General Quality Assessment: Biology
General Quality Assessment: Chemistry

Canal
Canal Tunnel
Culvert
Multiple Channel Culvert
Underground River (Potential Sewer)
Underground River (local knowledge)

6.Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
1	0	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
4	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	427	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

6.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site? Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details	
Not shown	977	W	510900 221200	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'd' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
Not shown	1007	W	510870 221250	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole D Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 102 Version Start Date: 15/5/2008 Version End Date:
Not shown	1007	W	510870 221220	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole C Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 102 Version Start Date: 15/5/2008 Version End Date:
Not shown	1077	W	510800 221200	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'c' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
Not shown	1197	W	510700 220650	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole B Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 102 Version Start Date: 15/5/2008 Version End Date:
Not shown	1212	W	510690 220620	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole A Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 102 Version Start Date: 15/5/2008 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1304	W	510600 220600	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'b' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
Not shown	1327	W	510600 220500	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'a' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
Not shown	1638	S	513500 219200	Status: Historical Licence No: 29/38/02/0068 Details: General Farming & Domestic Direct Source: Thames Groundwater Point: Laburnum Farm, Chiltern Green - Borehole Data Type: Point Name: J B & B H MURCHIE	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: W/726/29/38 Original Start Date: 23/10/1969 Expiry Date: - Issue No: 100 Version Start Date: 23/10/1969 Version End Date:
Not shown	1839	NE	515400 223300	Status: Active Licence No: 29/38/02/0070 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Kings Walden Pumping Station Data Type: Point Name: Affinity Water Limited	Annual Volume (m^3): 829645 Max Daily Volume (m^3): 2841.25 Original Application No: NPS/WR/011805 Original Start Date: 21/5/1982 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date:

6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site? Yes

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

ID	Distance (m)	Direction	NGR	Details	
Not shown	1839	NE	515400 223300	Status: Active Licence No: 29/38/02/0070 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Kings Walden Pumping Station Data Type: Point Name: Affinity Water Limited	Annual Volume (m^3): 829645 Max Daily Volume (m^3): 2841.25 Original Application No: NPS/WR/011805 Original Start Date: 21/5/1982 Expiry Date: - Issue No: 102 Version Start Date: Version End Date:

6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site? Yes

The following Source Protection Zones records are represented on the SPZ and Potable Water Abstraction Map (6c):

ID	Distance (m)	Direction	Zone	Description
1	0	On Site	3	Total catchment

6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site? No

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency information on groundwater vulnerability and soil leaching potential within 500m of the study site? Yes

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Major Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.
0	On Site	Major Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

6.9 River Quality

Is there any Environment Agency information on river quality within 1500m of the study site? Yes

6.9.1 Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (6e):

ID	Distance (m)	Direction	NGR	River Quality Grade	Biological Quality Grade				
					2005	2006	2007	2008	2009
Not shown	1438	W	510440 221110	River Name: Lee (thames) Reach: Luton Hoo Lakes - Luton Stw End/Start of Stretch: Start of Stretch NGR	C	C	C	B	B
Not shown	1438	W	510440 221110	River Name: Lee (thames) Reach: Leagrave - Luton Hoo Lakes End/Start of Stretch: End of Stretch NGR	D	D	D	C	C

6.9.2 Chemical Quality:

Database searched and no data found.

6.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site? No

Database searched and no data found.

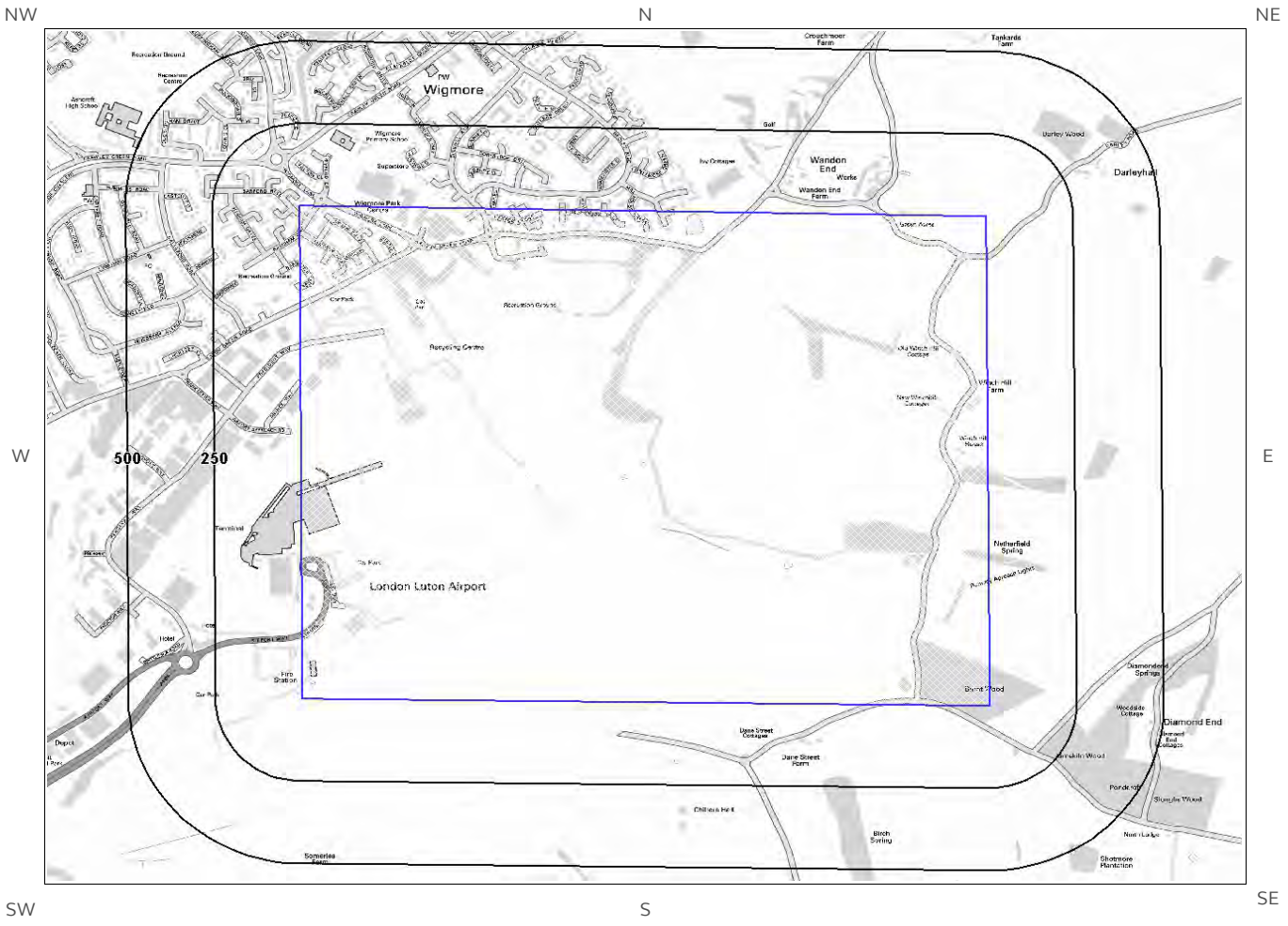
6.11 Surface Water Features

Are there any surface water features within 250m of the study site? Yes

The following surface water records are not represented on mapping:

Distance (m)	Direction
0	On Site
212	NW

7a. Environment Agency Flood Map for Planning (from rivers and the sea)



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Site Outline

100
250
Search Buffers (m)

Zone 2 Floodplain

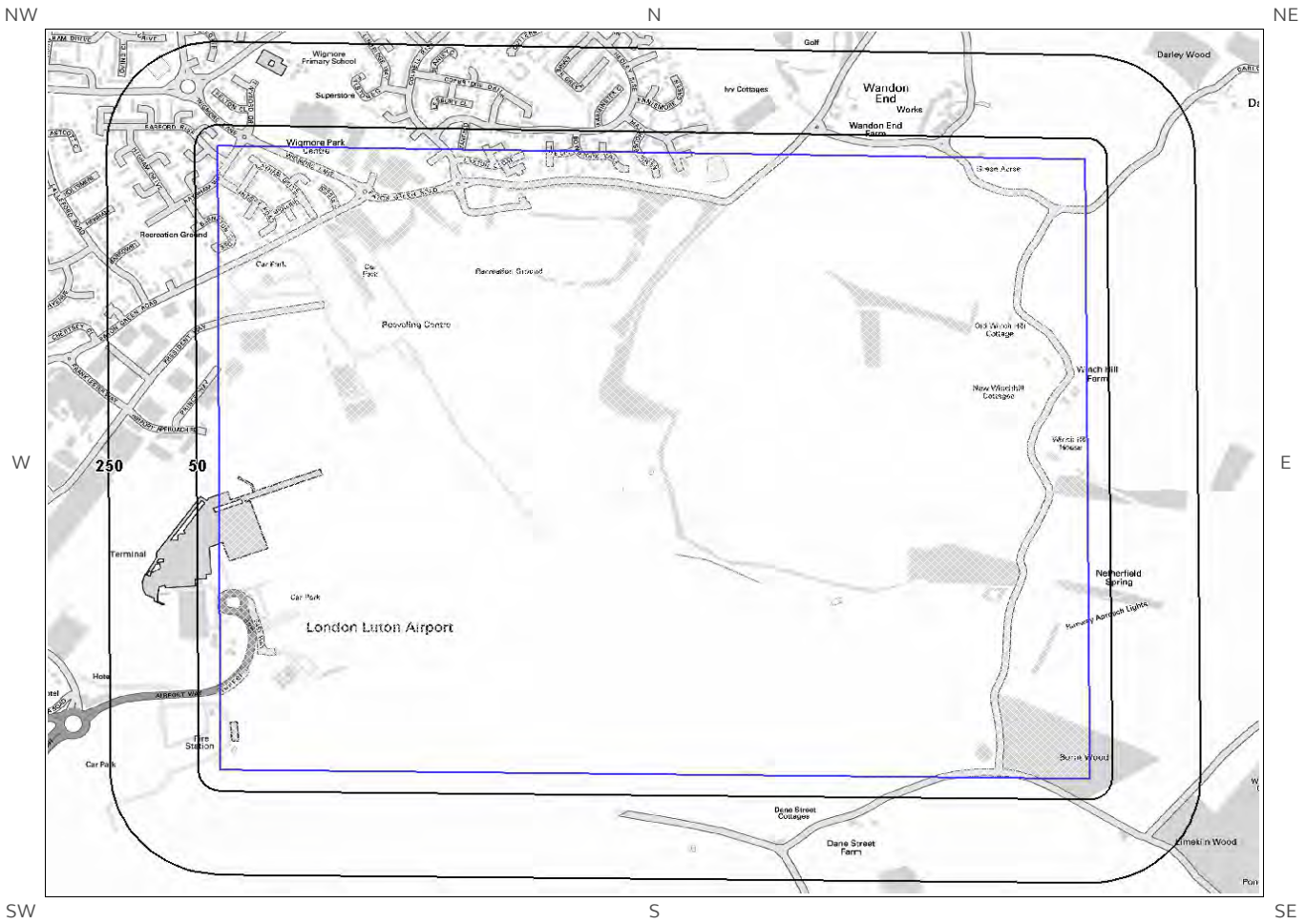
Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

Area Benefiting from Flood Defences

7b. Environment Agency Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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Site Outline

100
250
Search Buffers (m)

RoFRaS Rating

Very Low

Low

Medium

High

7 Flooding

7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency Zone 2 floodplain? No

Environment Agency Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency Zone 3 floodplain? No

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

What is the highest risk of flooding onsite? Very Low

The Environment Agency RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

7.4 Flood Defences

Are there any Flood Defences within 250m of the study site? No

Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? No

7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site? No

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding? Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

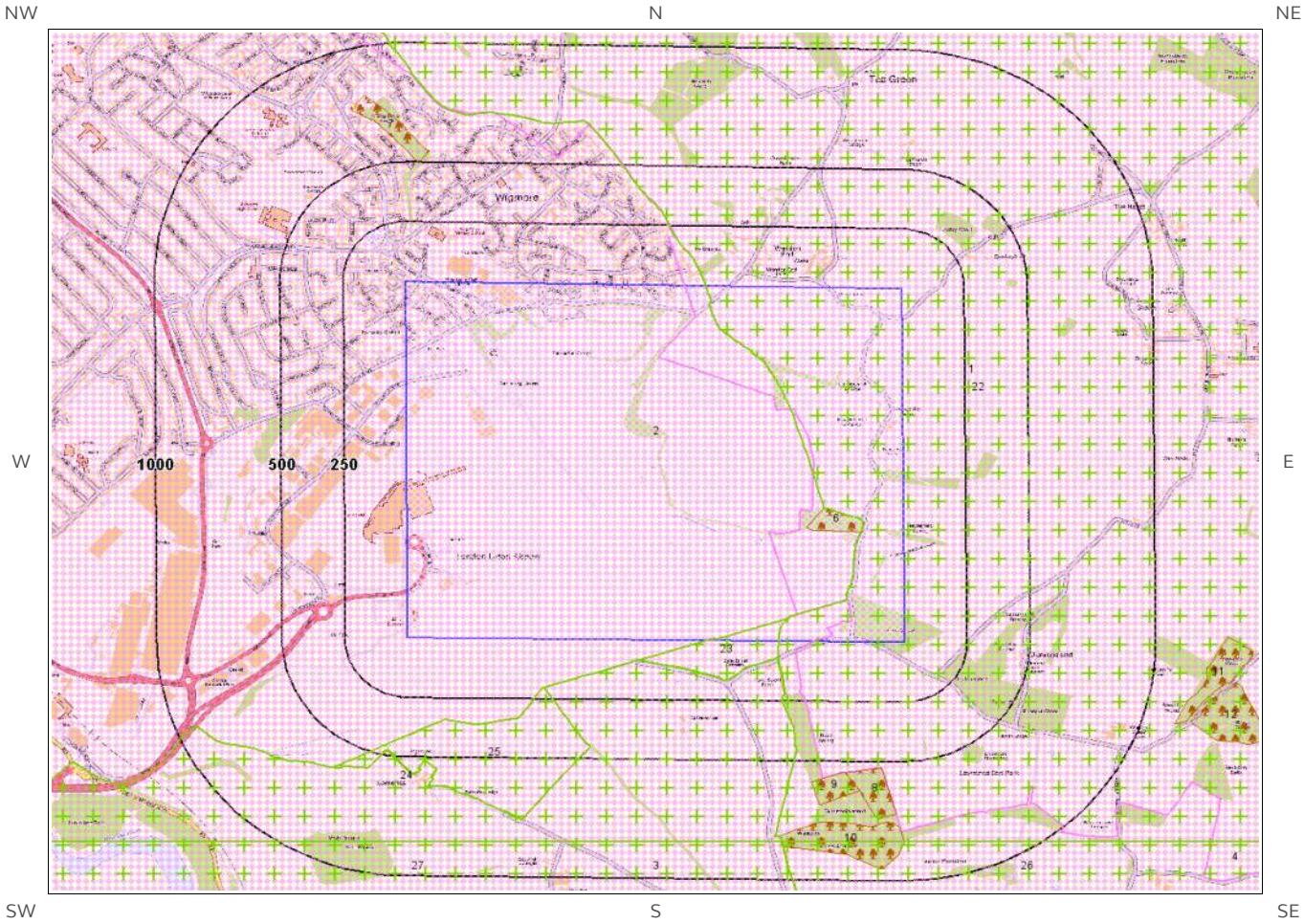
7.8 Groundwater Flooding Confidence Areas

What is the British Geological Survey confidence rating in this result? High

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



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Site Outline

100
250
Search Buffers (m)

AONB
National Park
SSSI
Special Protection Areas
Nitrate Vulnerable Zones
Green Belt
Environmentally Sensitive Areas
Special Areas of Conservation
World Heritage Sites
Nitrate Sensitive Areas
Ancient Woodland
National Nature Reserve
Local Nature Reserves
Ramsar Sites

8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site?	Yes

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

16

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
6	0	On Site	UNKNOWN	Ancient and Semi-Natural Woodland
7	497	N	UNKNOWN	Ancient and Semi-Natural Woodland
8	527	S	UNKNOWN	Ancient and Semi-Natural Woodland
9	548	S	UNKNOWN	Ancient Replanted Woodland
10	755	S	UNKNOWN	Ancient and Semi-Natural Woodland
11	1129	E	UNKNOWN	Ancient Replanted Woodland
12	1188	E	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1211	S	UNKNOWN	Ancient Replanted Woodland
Not shown	1273	S	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1333	N	UNKNOWN	Ancient Replanted Woodland
Not shown	1373	N	UNKNOWN	Ancient Replanted Woodland
17	1442	E	UNKNOWN	Ancient Replanted Woodland
Not shown	1450	S	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1452	S	UNKNOWN	Ancient Replanted Woodland
Not shown	1457	S	UNKNOWN	Ancient Replanted Woodland
Not shown	1521	E	UNKNOWN	Ancient Replanted Woodland

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

0

Database searched and no data found.

8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

5

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
1	0	On Site	Existing	DEFRA
2	0	On Site	Existing	DEFRA
3	834	S	Existing	DEFRA
4	1481	SE	Existing	DEFRA

ID	Distance (m)	Direction	NVZ Name	Data Source
Not shown	1871	W	Existing	DEFRA

8.14 Records of Green Belt land within 2000m of the study site:

7

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ID	Distance	Direction	Green Belt Name	Local Authority Name
22	0	On Site	London Area Greenbelt	North Hertfordshire District
23	0	On Site	London Area Greenbelt	Luton (B)
24	67	S	London Area Greenbelt	Central Bedfordshire
25	203	S	London Area Greenbelt	Luton (B)
26	834	S	London Area Greenbelt	North Hertfordshire District
27	839	S	London Area Greenbelt	Central Bedfordshire
Not shown	1472	N	London Area Greenbelt	Luton (B)

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a Groundsure GeoInsight, available from our website. The following information has been found:

9.1.1 Shrink Swell

What is the maximum Shrink-Swell* hazard rating identified on the study site? Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.

9.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build Ö consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property Ö probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.

* This indicates an automatically generated 50m buffer and site.

9.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site? Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very significant soluble rocks are present, with a moderate possibility of local natural subsidence due to high surface or subsurface water flow. Do not load the land or undertake building work before obtaining specialist advice. Do not dispose of drainage to the ground. Some possibility groundwater pollution. Maintain drainage infrastructure. For new build Ö specialist site investigation and stability assessment may be necessary before construction. Construction work may cause subsidence. Increased construction costs are likely. For existing property Ö probable increase in insurance risk due to soluble rocks.

9.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

9.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

9.1.6 Running Sand

What is the maximum Running Sand* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing
ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

* This indicates an automatically generated 50m buffer and site.

10. Mining

10.1 Coal Mining

Are there any coal mining areas within 75m of the study site? No

Database searched and no data found.

10.2 Non-Coal Mining

Are there any Non-Coal Mining areas within 50m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

Distance (m)	Direction	Name	Commodity	Assessment of likelihood
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Occasional minor mining may have occurred but of restricted extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.

0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
6.0	N	Not available	Chalk	Small scale mining may have occurred but restricted in extent.

Past underground mine workings are unlikely. The rock types present in these areas are such that mineral veins may be present on which it is possible that mining has been undertaken and/or it is possible that small scale underground extraction of other materials may have occurred. All such occurrences are likely to be of localised extent and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? No

Guidance: No Guidance Required.

Contact Details

Groundsure Helpline
Telephone: 08444 159 000
info@groundsure.com

British Geological Survey Enquiries
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:
Web:**www.bgs.ac.uk**
BGS Geological Hazards Reports and general geological enquiries:
enquiries@bgs.ac.uk

Environment Agency
National Customer Contact Centre, PO Box 544
Rotherham, S60 1BY
Tel: 08708 506 506
Web:**www.environment-agency.gov.uk**
Email:**enquiries@environment-agency.gov.uk**

Public Health England
Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
Email:**enquiries@phe.gov.uk**
Main switchboard**: 020 7654 8000**

The Coal Authority
200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Ordnance Survey
Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

Local Authority
Authority: North Hertfordshire District Council
Phone: 01462 474000
Web: http://www.north-herts.gov.uk/
Address: Council Offices, Gernon Road, Letchworth Garden Ci,

Gemapping PLC
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444

Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England who retain the Copyright and Intellectual Property Rights for the data.
PointX © Database Right/Copyright, Thomson Directories Limited © Copyright Link Interchange Network Limited © Database Right/Copyright and Ordnance Survey © Crown Copyright and/or Database Right. All Rights Reserved. Licence Number [03421028].
This report has been prepared in accordance with the Groundsure Ltd standard Terms and Conditions of business for work of this nature.

Standard Terms and Conditions

1 Definitions

I**n these terms and conditions unless the context otherwise requires:**

"Beneficiary" means the person or entity for whose benefit the Client has obtained the Services.

"Client" means the party or parties entering into a Contract with Groundsure.

"Commercial" means any building or property which is not Residential.

"Confidential Information" means the contents of this Contract and all information received from the Client as a result of, or in connection with, this Contract other than

(i) information which the Client can prove was rightfully in its possession prior to disclosure by Groundsure and

(ii) any information which is in the public domain (other than by virtue of a breach of this Contract).

"Support Services" means Support Services provided by Groundsure including, without limitation, interpreting third party and in-house environmental data, providing environmental support advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.

"Contract" means the contract between Groundsure and the Client for the provision of the Services, and which shall incorporate these terms and conditions, the Order, and the relevant User Guide.

"Third Party Data Provider" means any third party providing Third Party Content to Groundsure.

"Data Reports" means reports comprising factual data with no accompanying interpretation.

"Fees" has the meaning set out in clause 5.1.

"Groundsure" means Groundsure Limited, a company registered in England and Wales under number 03421028.

"Groundsure Materials" means all materials prepared by Groundsure and provided as part of the Services, including but not limited to Third Party Content, Data Reports, Mapping, and Risk Screening Reports.

"Intellectual Property" means any patent, copyright, design rights, trade or service mark, moral rights, data protection rights, know-how or trade mark in each case whether registered or not and including applications for the same or any other rights of a similar nature anywhere in the world.

"Mapping" means a map, map data or a combination of historical maps of various ages, time periods and scales.

"Order" means an electronic, written or other order form submitted by the Client requesting Services from Groundsure in respect of a specified Site.

"Ordnance Survey" means the Secretary of State for Business, Innovation and Skills, acting through Ordnance Survey, Adanac Drive, Southampton, SO16 0AS, UK.

"Order Website" means the online platform through which Orders may be placed by the Client and accepted by Groundsure.

"Report" means a Risk Screening Report or Data Report for Commercial or Residential property.

"Residential" means any building or property used as or intended to be used as a single dwelling.

"Risk Screening Report" means a risk screening report comprising factual data with an accompanying interpretation by Groundsure.

"Services" means any Report, Mapping and/or Support Services which Groundsure has agreed to provide by accepting an Order pursuant to clause 2.6.

"Site" means the area of land in respect of which the Client has requested Groundsure to provide the Services.

"Third Party Content" means data, database information or other information which is provided to Groundsure by a Third Party Data Provider.

"User Guide" means the user guide, as amended from time to time, available upon request from Groundsure and on the website (www.Groundsure.com) and forming part of this Contract.

2 Scope of Services, terms and conditions, requests for insurance and quotations

2.1 Groundsure agrees to provide the Services in accordance with the Contract.

2.2 Groundsure shall exercise reasonable skill and care in the provision of the Services.

2.3 Subject to clause 7.3 the Client acknowledges that it has not relied on any statement or representation made by or on behalf of Groundsure which is not set out and expressly agreed in writing in the Contract and all such statements and representations are hereby excluded to the fullest extent permitted by law.

2.4 The Client acknowledges that terms and conditions appearing on a Client's order form, printed stationery or other communication, or any terms or conditions implied by custom, practice or course of dealing shall be of no effect, and that this Contract shall prevail over all others in relation to the Order.

2.5 If the Client or Beneficiary requests insurance in conjunction with or as a result of the Services, Groundsure shall use reasonable endeavours to recommend such insurance, but makes no warranty that such insurance shall be available from insurers or that it will be offered on reasonable terms. Any insurance purchased by the Client or Beneficiary shall be subject solely to the terms of the policy issued by insurers and Groundsure will have no liability therefor. In addition you acknowledge and agree that Groundsure does not act as an agent or broker for any insurance providers. The Client should take (and ensure that the Beneficiary takes) independent advice to ensure that the insurance policy requested or offered is suitable for its requirements.

2.6 Groundsure's quotations or proposals are valid for a period of 30 days only unless an alternative period of time is explicitly stipulated by Groundsure. Groundsure reserves the right to withdraw any quotation or proposal at any time before an Order is accepted by Groundsure. Groundsure's acceptance of an Order shall be binding only when made in writing and signed by Groundsure's authorised representative or when accepted through the Order Website.

3 The Client's obligations

3.1The Client shall comply with the terms of this Contract and

(i) procure that the Beneficiary or any third party relying on the Services complies with and acts as if it is bound by the Contract and

(ii) be liable to Groundsure for the acts and omissions of the Beneficiary or any third party relying on the Services as if such acts and omissions were those of the Client.

3.2 The Client shall be solely responsible for ensuring that the Services are appropriate and suitable for its and/or the Beneficiary's needs.

3.3 The Client shall supply to Groundsure as soon as practicable and without charge all requisite information (and the Client warrants that such information is accurate, complete and appropriate), including without limitation any environmental information relating to the Site and shall give such assistance as Groundsure shall reasonably require in the provision of the Services including, without limitation, access to the Site, facilities and equipment.

3.4 Where the Client's approval or decision is required to enable Groundsure to carry out work in order to provide the Services, such approval or decision shall be given or procured in reasonable time and so as not to delay or disrupt the performance of the Services.

3.5 Save as expressly permitted by this Contract the Client shall not, and shall procure that the Beneficiary shall not, re-sell, alter, add to, or amend the Groundsure Materials, or use the Groundsure Materials in a manner for which they were not intended. The Client may make the Groundsure Materials available to a third party who is considering acquiring some or all of, or providing funding in relation to, the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.

3.6 The Client is responsible for maintaining the confidentiality of its user name and password if using the Order Website and the Client acknowledges that Groundsure accepts no liability of any kind for any loss or damage suffered by the Client as a consequence of using the Order Website.

4 Reliance

4.1The Client acknowledges that the Services provided by Groundsure consist of the presentation and analysis of Third Party Content and other content and that information obtained from a Third Party Data Provider cannot be guaranteed or warranted by Groundsure to be reliable.

4.2 In respect of Data Reports, Mapping and Risk Screening Reports, the following classes of person and no other are entitled to rely on their contents;

(i) the Beneficiary,

(ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate),

(iv) the first purchaser or first tenant of the Site, and

(v) the professional advisers and lenders of the first purchaser or tenant of the Site.

4.3 In respect of Support Services, only the Client, Beneficiary and parties expressly named in a Report and no other parties are entitled to rely on its contents.

4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise expressly agreed in writing, no other person or entity of any kind is entitled to rely on any Services or Report issued or provided by Groundsure. Any party considering such Reports and Services does so at their own risk.

5 Fees and Disbursements

5.1Groundsure shall charge and the Client shall pay fees at the rate and

frequency specified in the written proposal, Order Website or Order acknowledgement form, plus (in the case of Support Services) all proper disbursements incurred by Groundsure. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services (together "Fees").

5.2 The Client shall pay all outstanding Fees to Groundsure in full without deduction, counterclaim or set off within 30 days of the date of Groundsure's invoice or such other period as may be agreed in writing between Groundsure and the Client ("Payment Date"). Interest on late payments will accrue on a daily basis from the Payment Date until the date of payment (whether before or after judgment) at the rate of 8% per annum.

5.3 The Client shall be deemed to have agreed the amount of any invoice unless an objection is made in writing within 28 days of the date of the invoice. As soon as reasonably practicable after being notified of an objection, without prejudice to clause 5.2 a member of Groundsure's management team will contact the Client and the parties shall then use all reasonable endeavours to resolve the dispute within 15 days.

6 Intellectual Property and Confidentiality

6.1 Subject to

(i) full payment of all relevant Fees and

(ii) compliance with this Contract, the Client is granted (and is permitted to sub-licence to the Beneficiary) a royalty-free, worldwide, non-assignable and (save to the extent set out in this Contract) non-transferable licence to make use of the Groundsure Materials.

6.2 All Intellectual Property in the Groundsure Materials are and shall remain owned by Groundsure or Groundsure's licensors (including without limitation the Third Party Data Providers) the Client acknowledges, and shall procure acknowledgement by the Beneficiary of, such ownership. Nothing in this Contract purports to transfer or assign any rights to the Client or the Beneficiary in respect of such Intellectual Property.

6.3 Third Party Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.

6.4 The Client shall, and shall procure that any recipients of the Groundsure Materials shall:

(i) not remove, suppress or modify any trade mark, copyright or other proprietary marking belonging to Groundsure or any third party from the Services;

(ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;

(iii) not create any product or report which is derived directly or indirectly from the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);

(iv) not combine the Services with or incorporate such Services into any other information data or service;

(v) not reformat or otherwise change (whether by modification, addition or enhancement), the Services (save that those acting for the Beneficiary in a professional capacity shall not be in breach of this clause 6.4(v) where such reformatting is in the normal course of providing advice based upon the Services);

(vi) where a Report and/or Mapping contains material belonging to Ordnance Survey, acknowledge and agree that such content is protected by Crown Copyright and shall not use such content for any purpose outside of receiving the Services; and

(vii) not copy in whole or in part by any means any map prints or run-on copies containing content belonging to Ordnance Survey (other than that contained within Ordnance Survey's OS Street Map) without first being in possession of a valid Paper Map Copying Licence from Ordnance Survey,

6.5 Notwithstanding clause 6.4, the Client may make reasonable use of the Groundsure Materials in order to advise the Beneficiary in a professional capacity. However, Groundsure shall have no liability in respect of any advice, opinion or report given or provided to Beneficiaries by the Client.

6.6 The Client shall procure that any person to whom the Services are made available shall notify Groundsure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

7.Liability: Particular Attention Should Be Paid To This Clause

7.1 This Clause 7 sets out the entire liability of Groundsure, including any liability for the acts or omissions of its employees, agents, consultants, subcontractors and Third Party Content, in respect of:

(i) any breach of contract, including any deliberate breach of the Contract by Groundsure or its employees, agents or subcontractors;

(ii) any use made of the Reports, Services, Materials or any part of them; and

(iii) any representation, statement or tortious act or omission (including negligence) arising under or in connection with the Contract.

7.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

7.3 Nothing in the Contract limits or excludes the liability of the Supplier for death or personal injury resulting from negligence, or for any damage or liability incurred by the Client or Beneficiary as a result of fraud or fraudulent misrepresentation.

7.4 Groundsure shall not be liable for

(i) loss of profits;

(ii) loss of business;

(iii) depletion of goodwill and/or similar losses;

(iv) loss of anticipated savings;

(v) loss of goods;

(vi) loss of contract;

(vii) loss of use;

(viii) loss or corruption of data or information;

(ix) business interruption;

(x) any kind of special, indirect, consequential or pure economic loss, costs, damages, charges or expenses;

(xi) loss or damage that arise as a result of the use of all or part of the Groundsure Materials in breach of the Contract;

(xii) loss or damage arising as a result of any error, omission or inaccuracy in any part of the Groundsure Materials where such error, omission or inaccuracy is caused by any Third Party Content or any reasonable interpretation of Third Party Content;

(xiii) loss or damage to a computer, software, modem, telephone or other property; and

(xiv) loss or damage caused by a delay or loss of use of Groundsure's internet ordering service.

7.5 Groundsure's total liability in relation to or under the Contract shall be limited to £10 million for any claim or claims.

7.6 Groundsure shall procure that the Beneficiary shall be bound by limitations and exclusions of liability in favour of Groundsure which accord with those detailed in clauses 7.4 and 7.5 (subject to clause 7.3) in respect of all claims which the Beneficiary may bring against Groundsure in relation to the Services or other matters arising pursuant to the Contract.

8 Groundsure's right to suspend or terminate

8.1 If Groundsure reasonably believes that the Client or Beneficiary has not provided the information or assistance required to enable the proper provision of the Services, Groundsure shall be entitled to suspend all further performance of the Services until such time as any such deficiency has been made good.

8.2 Groundsure shall be entitled to terminate the Contract immediately on written notice in the event that:

(i) the Client fails to pay any sum due to Groundsure within 30 days of the Payment Date; or

(ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an administration order made against it or if a receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or

(iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or

(iv) the Client or the Beneficiary breaches any term of the Contract (including, but not limited to, the obligations in clause 4) which is incapable of remedy or if remediable, is not remedied within five days of notice of the breach.

9. Client's Right to Terminate and Suspend

9.1 Subject to clause 10.1, the Client may at any time upon written notice terminate or suspend the provision of all or any of the Services.

9.2 In any event, where the Client is a consumer (and not a business) he/she hereby expressly acknowledges and agrees that:

(i) the supply of Services under this Contract (and therefore the performance of this Contract) commences immediately upon Groundsure's acceptance of the Order; and

(ii) the Reports and/or Mapping provided under this Contract are

(a) supplied to the Client's specification(s) and in any event

(b) by their nature cannot be returned.

10 Consequences of Withdrawal, Termination or Suspension

10.1 Upon termination of the Contract:

(i) Groundsure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client and/or Beneficiary any property of the Client and/or Beneficiary in Groundsure's possession or control; and

(ii) the Client shall pay to Groundsure all and any Fees payable in respect of the performance of the Services up to the date of termination or suspension. In respect of any Support Services provided, the Client shall also pay Groundsure any additional costs incurred in relation to the termination or suspension of the Contract.

11 Anti-Bribery

11.1 The Client warrants that it shall:

(i) comply with all applicable laws, statutes and regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;

(ii) comply with such of Groundsure's anti-bribery and anti-corruption policies as are notified to the Client from time to time; and

(iii) promptly report to Groundsure any request or demand for any undue financial or other advantage of any kind received by or on behalf of the Client in connection with the performance of this Contract.

11.2 Breach of this Clause 11 shall be deemed a material breach of this Contract.

12 General

12.1 The Mapping contained in the Services is protected by Crown copyright and must not be used for any purpose other than as part of the Services or as specifically provided in the Contract.

12.2 The Client shall be permitted to make one copy only of each Report or Mapping Order. Thereafter the Client shall be entitled to make unlimited copies of the Report or Mapping Order only in accordance with an Ordnance Survey paper map copy license available through Groundsure.

12.3 Groundsure reserves the right to amend or vary this Contract. No amendment or variation to this Contract shall be valid unless signed by an authorised representative of Groundsure.

12.4 No failure on the part of Groundsure to exercise, and no delay in exercising, any right, power or provision under this Contract shall operate as a waiver thereof.

12.5 Save as expressly provided in this Contract, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.

12.6 The Secretary of State for Business, Innovation and Skills ("BIS") or BIS' successor body, as the case may be, acting through Ordnance Survey may enforce a breach of clause 6.4(vi) and clause 6.4(vii) of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.

12.7 Groundsure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:

(i) the Client or Beneficiary's failure to provide facilities, access or information;

(ii) fire, storm, flood, tempest or epidemic;

(iii) Acts of God or the public enemy;

(iv) riot, civil commotion or war;

(v) strikes, labour disputes or industrial action;

(vi) acts or regulations of any governmental or other agency;

(vii) suspension or delay of services at public registries by Third Party Data Providers;

(viii) changes in law; or

(ix) any other reason beyond Groundsure's reasonable control.

In the event that Groundsure is prevented from performing the Services (or any part thereof) in accordance with this clause 12.6 for a period of not less than 30 days then Groundsure shall be entitled to terminate this Contract immediately on written notice to the Client.

12.8 Any notice provided shall be in writing and shall be deemed to be properly given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

12.9 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email (save to the extent such day is not a working day where it shall be deemed to have been delivered on the next working day) and on the second working day after the day of posting if sent by first class post.

12.10 The Contract constitutes the entire agreement between the parties and shall supersede all previous arrangements between the parties relating to the subject matter hereof.

12.11 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

12.12 This Contract shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with this Contract shall be subject to the exclusive jurisdiction of the English courts.

12.13 Groundsure is an executive member of the Council of Property Search Organisation (CoPSO) and has signed up to the Search Code administered by the Property Codes Compliance Board (PCCB). All Risk Screening Reports shall be supplied in accordance with the provisions of the Search Code.

12.14 If the Client or Beneficiary has a complaint about the Services, written notice should be given to the Compliance Officer at Groundsure who will respond in a timely manner. In the event you are not satisfied with Groundsure's complaints handling process or you are unable to resolve the complaint, at your discretion you may refer the complaint to The Property Ombudsman Scheme at the following URL/email: website www.tpos.co.uk or email: admin@tpos.co.uk

12.15 The Client agrees that it shall, and shall procure that each Beneficiary shall, treat in confidence all Confidential Information and shall not, and shall procure that each Beneficiary shall not (i) disclose any Confidential Information to any third party other than in accordance with the terms of this Contract; and (ii) use Confidential Information for a purpose other than the exercise of its rights and obligations under this Contract. Subject to clause 6.6, nothing shall prevent the Client or any Beneficiary from disclosing Confidential Information to the extent required by law. **© Groundsure Limited June 2013**

A1 Areas A, B, C

Groundsure Enviroinsight

Address:	**512568, 221118,**
Date:	**19 Feb 2016**
Reference:	**GS-2762878**
Client:	**Ove Arup & Partners International Ltd**

NW N NE

W E

SW S SE

Aerial Photograph Capture date:	01-Jun-2014
Grid Reference:	513038,221564
Site Size:	294.22ha

Report Reference: GS-2762878
Client Reference: Luton_245580-00

Contents Page

Contents Page 3
Overview of Findings 6
Using this report 10
1. Historical Land Use 11
1. Historical Industrial Sites 12
1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping 12
1.2 Additional Information – Historical Tank Database 14
1.3 Additional Information – Historical Energy Features Database 15
1.4 Additional Information – Historical Petrol and Fuel Site Database 16
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database 17
1.6 Potentially Infilled Land 17
2. Environmental Permits, Incidents and Registers Map 19
2. Environmental Permits, Incidents and Registers 20
2.1 Industrial Sites Holding Licences and/or Authorisations 20
2.1.1 Records of historic IPC Authorisations within 500m of the study site: 20
2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site: 20
2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site: 20
2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site: 20
2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site: 20
2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site: 21
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations: 21
2.1.8 Records of Licensed Discharge Consents within 500m of the study site: 22
2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site: 25
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site: 25
2.2 Dangerous or Hazardous Sites 25
2.3 Environment Agency Recorded Pollution Incidents 25
2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site: 25
2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site: 26
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990 26
3. Landfill and Other Waste Sites Map 27
3. Landfill and Other Waste Sites 28
3.1 Landfill Sites 28
3.1.1 Records from Environment Agency landfill data within 1000m of the study site: 28
3.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site: 28
3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site: 28
3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site: 29
3.2 Other Waste Sites 29
3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site: 29
3.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site: 30
4. Current Land Use Map 32
4. Current Land Uses 33
4.1 Current Industrial Data 33
4.2 Petrol and Fuel Sites 36
4.3 National Grid High Voltage Underground Electricity Transmission Cables 36
4.4 National Grid High Pressure Gas Transmission Pipelines 36
5. Geology 37
5.1 Artificial Ground and Made Ground 37

5.2 Superficial Ground and Drift Geology 37
5.3 Bedrock and Solid Geology 37
6 Hydrogeology and Hydrology 38
6a. Aquifer Within Superficial Geology 38
6b. Aquifer Within Bedrock Geology and Abstraction Licenses 39
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses 40
6d. Hydrogeology – Source Protection Zones within confined aquifer 41
6e. Hydrology – Detailed River Network and River Quality 42
6.Hydrogeology and Hydrology 43
6.1 Aquifer within Superficial Deposits 43
6.2 Aquifer within Bedrock Deposits 43
6.3 Groundwater Abstraction Licences 44
6.4 Surface Water Abstraction Licences 45
6.5 Potable Water Abstraction Licences 45
6.6 Source Protection Zones 46
6.7 Source Protection Zones within Confined Aquifer 46
6.8 Groundwater Vulnerability and Soil Leaching Potential 46
6.9 River Quality 46
6.9.1 Biological Quality: 47
6.9.2 Chemical Quality: 47
6.10 Detailed River Network 47
6.11 Surface Water Features 47
7a. Environment Agency Flood Map for Planning (from rivers and the sea) 48
7b. Environment Agency Risk of Flooding from Rivers and the Sea (RoFRaS) Map 49
7 Flooding 50
7.1 River and Coastal Zone 2 Flooding 50
7.2 River and Coastal Zone 3 Flooding 50
7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating 50
7.4 Flood Defences 50
7.5 Areas benefiting from Flood Defences 50
7.6 Areas benefiting from Flood Storage 51
7.7 Groundwater Flooding Susceptibility Areas 51
7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes 51
7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions? 51
7.8 Groundwater Flooding Confidence Areas 51
8. Designated Environmentally Sensitive Sites Map 52
8. Designated Environmentally Sensitive Sites 53
8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site: 53
8.2 Records of National Nature Reserves (NNR) within 2000m of the study site: 53
8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site: 53
8.4 Records of Special Protection Areas (SPA) within 2000m of the study site: 53
8.5 Records of Ramsar sites within 2000m of the study site: 53
8.6 Records of Ancient Woodland within 2000m of the study site: 54
8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site: 54
8.8 Records of World Heritage Sites within 2000m of the study site: 55
8.9 Records of Environmentally Sensitive Areas within 2000m of the study site: 55
8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site: 55
8.11 Records of National Parks (NP) within 2000m of the study site: 55
8.12 Records of Nitrate Sensitive Areas within 2000m of the study site: 55
8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site: 55

8.14 Records of Green Belt land within 2000m of the study site: 56
9. Natural Hazards Findings 57
9.1 Detailed BGS GeoSure Data 57
9.1.1 Shrink Swell 57
9.1.2 Landslides 57
9.1.3 Soluble Rocks 58
9.1.4 Compressible Ground 58
9.1.5 Collapsible Rocks 58
9.1.6 Running Sand 59
9.2 Radon 59
9.2.1 Radon Affected Areas 59
9.2.2 Radon Protection 59
10. Mining 60
10.1 Coal Mining 60
10.2 Non-Coal Mining 60
10.3 Brine Affected Areas 61
Contact Details 62
Standard Terms and Conditions 64

Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	35	4	14	33
1.2 Additional Information – Historical Tank Database	8	5	7	14
1.3 Additional Information – Historical Energy Features Database	2	11	20	31
1.4 Additional Information – Historical Petrol and Fuel Site Database	3	1	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	0
1.6 Potentially Infilled Land	27	0	15	20

Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	2	3
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	10	0	1	12
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	1
2.3 Environment Agency Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	4	3
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency Historic Landfill Sites	1	0	0	1	0	0
3.1.3 BGS/DoE Landfill Site Survey	1	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	5	0	0	0	0	0
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	1	0	Not searched	Not searched
3.2.2 Environment Agency Licensed Waste Sites	5	0	0	0	1	0

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	20	10	30	Not searched
4.2 Records of Petrol and Fuel Sites	1	0	1	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?	Yes
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	Yes
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology	0-500m
6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	Yes
6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Yes

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	1	9
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	1
6.6 Source Protection Zones (within 500m of the study site)	1	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	2	0	0	0	Not searched	Not searched

	On-site	0-50m	51-250	251-500	501-1000	1000-1500

Section 6: Hydrogeology and Hydrology	0-500m					
6.9 Is there any Environment Agency information on river quality within 1500m of the study site?	No	No	No	No	No	Yes
6.10 Detailed River Network entries within 500m of the site	0	0	0	0	Not searched	Not searched
6.11 Surface water features within 250m of the study site	Yes	No	Yes	Not searched	Not searched	Not searched

Section 7: Flooding	
7.1 Are there any Enviroment Agency Zone 2 floodplains within 250m of the study site?	No
7.2 Are there any Environment Agency Zone 3 floodplains within 250m of the study site	No
7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	Very Low
7.4 Are there any Flood Defences within 250m of the study site?	No
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
7.6 Are there any areas used for Flood Storage within 250m of the study site?	No
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Potential at Surface
7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	High

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	1	0	0	1	3	11
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	2	0	0	0	1	2
8.14 Records of Green Belt land	2	0	2	0	2	1

Section 9: Natural Hazards

9.1 What is the maximum risk of natural ground subsidence?	Moderate
9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?	Low
9.1.2 What is the maximum Landslides hazard rating identified on the study site?	Moderate
9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?	Moderate
9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?	Very Low
9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?	Very Low
9.1.6 What is the maximum Running Sand hazard rating identified on the study site?	Very Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary.

Section 10: Mining

10.1 Are there any coal mining areas within 75m of the study site?	No
10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary?	Yes
10.3 Are there any brine affected areas within 75m of the study site?	No

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

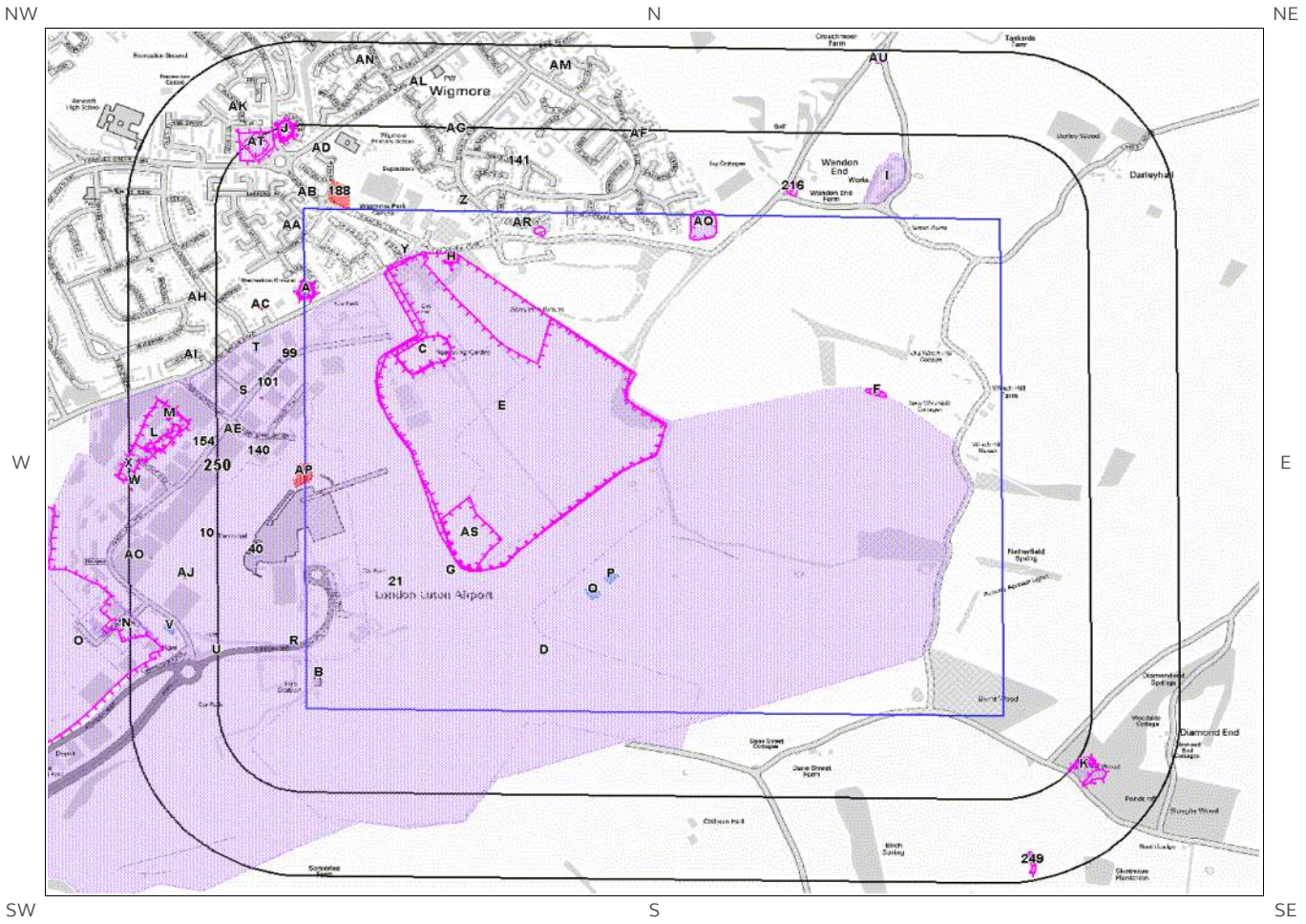
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier “A” on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as “Not Shown”.

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use



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Historical 1:10,000 and 1:10,560 scale mapping

Industrial Land Use

Potentially Infilled Land

Site Outline

Historical 1:2,500, 1:1,250 and 1:500 scale mapping

250
500
Search Buffers (m)

Energy Features

Petrol Stations

Tanks

Garages

1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 86

ID	Distance [m]	Direction	Use	Date
1A	0	On Site	Unspecified Pit	1951
2A	0	On Site	Unspecified Pit	1938
3A	0	On Site	Unspecified Pit	1922
4A	0	On Site	Unspecified Pit	1947
5A	0	On Site	Unspecified Pit	1938
6A	0	On Site	Unspecified Pit	1922
7A	0	On Site	Unspecified Pit	1938
8B	0	On Site	Fire Station	1991
9B	0	On Site	Fire Station	1985
10	0	On Site	Airport	1973
11Y	0	On Site	Police Station	1985
12C	0	On Site	Unspecified Pit	1991
13C	0	On Site	Unspecified Pit	1985
14H	0	On Site	Unspecified Pit	1951
15AS	0	On Site	Refuse Heap	1951
16D	0	On Site	Unspecified Tank	1947
17D	0	On Site	Unspecified Tank	1925
18E	0	On Site	Unspecified Workings	1991
19E	0	On Site	Unspecified Workings	1985
20E	0	On Site	Refuse Heap	1973
21	0	On Site	Airport	1951
22AQ	0	On Site	Unspecified Pit	1991
23F	0	On Site	Unspecified Quarry	1947
24F	0	On Site	Unspecified Quarry	1925
25G	0	On Site	Airport	1991
26G	0	On Site	Airport	1985
27A	0	On Site	Unspecified Pit	1938
28A	0	On Site	Unspecified Pit	1922
29H	0	On Site	Old Gravel Pit	1899
30H	0	On Site	Old Gravel Pit	1888
31H	0	On Site	Unspecified Pit	1925
32H	0	On Site	Old Gravel Pit	1899
33H	0	On Site	Old Gravel Pit	1879
34H	0	On Site	Unspecified Pit	1925

35H	0	On Site	Unspecified Pit	1947
36I	43	N	Unspecified Works	1973
37I	43	N	Unspecified Works	1985
38I	43	N	Unspecified Works	1991
39S	46	W	Engineering Works	1973
40	127	W	Unspecified Tank	1991
41AT	193	NW	Filter Bed	1973
42J	210	N	Unspecified Pit	1951
43J	211	N	Unspecified Pit	1938
44J	212	N	Unspecified Pit	1922
45J	212	N	Unspecified Pit	1947
46J	213	N	Old Chalk Pit	1900
47J	214	N	Unspecified Pit	1938
48J	214	N	Unspecified Pit	1922
49J	214	N	Unspecified Pit	1938
50J	214	N	Unspecified Pit	1922
51J	216	N	Unspecified Pit	1938
52K	245	SE	Lime Kiln	1881
53K	245	SE	Chalk Pit	1899
54K	259	SE	Unspecified Quarry	1925
55K	259	SE	Unspecified Quarry	1947
56K	259	SE	Chalk Pit	1899
57K	260	SE	Unspecified Quarry	1951
58K	303	SE	Unspecified Pit	1881
59L	328	W	Brick and Tile Works	1888
60L	328	W	Brick and Tile Works	1888
61L	329	W	Brick and Tile Works	1879
62L	329	W	Brick and Tile Works	1879
63L	349	W	Clay Pit	1888
64L	349	W	Clay Pit	1888
65L	350	W	Clay Pit	1879
66V	373	W	Unspecified Tanks	1991
67M	377	W	Brick Kiln	1888
68M	377	W	Brick Kiln	1888
69N	378	W	Infectious Diseases Hospital	1938
70N	378	W	Infectious Diseases Hospital	1938
71N	378	W	Infectious Diseases Hospital	1922
72N	378	W	Infectious Diseases Hospital	1922
73M	381	W	Brick Kiln	1879
74M	381	W	Brick Kiln	1879
75M	396	W	Lime Kiln	1888
76M	396	W	Lime Kiln	1888
77O	405	W	Sewage Farm	1922

78O	405	W	Sewage Farm	1922
79M	412	W	Lime Kiln	1879
80N	420	W	Infectious Diseases Hospital	1938
81N	425	W	Infectious Diseases Hospital	1947
82N	430	W	Infectious Diseases Hospital	1951
83N	435	W	Infectious Diseases Hospital	1922
84N	449	W	Infectious Diseases Hospital	1900
85N	449	W	Infectious Disease Hospital	1938
86AU	461	N	Unspecified Pit	1881

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 34

ID	Distance (m)	Direction	Use	Date
87C	0	On Site	Unspecified Tank	1990
88Q	0	On Site	Unspecified Tank	1993
89P	0	On Site	Unspecified Tank	1993
90C	0	On Site	Unspecified Tank	1993
91C	0	On Site	Unspecified Tank	1993
92P	0	On Site	Unspecified Tank	1993
93Q	0	On Site	Unspecified Tank	1993
94AR	0	On Site	Tanks	1971
95R	30	W	Septic Tanks	1968
96R	30	W	Septic Tanks	1973
97R	30	W	Tanks	1993
98R	31	W	Septic Tanks	1981
99	37	W	Tanks	1967
100S	102	W	Tanks	1967
101	103	W	Unspecified Tank	1981
102T	131	W	Unspecified Tank	1967
103T	132	W	Unspecified Tank	1981
104U	250	W	Tanks	1993
105U	250	W	Septic Tanks	1968
106U	250	W	Septic Tanks	1973
107U	251	W	Septic Tanks	1981
108V	374	W	Unspecified Tank	1993

109V	374	W	Unspecified Tank	1996
110V	374	W	Unspecified Tank	1996
111V	377	W	Tanks	1993
112W	483	W	Unspecified Tank	1979
113W	483	W	Unspecified Tank	1990
114W	484	W	Unspecified Tank	1993
115AO	485	W	Unspecified Tank	1993
116W	487	W	Unspecified Tank	1979
117W	487	W	Unspecified Tank	1990
118W	488	W	Unspecified Tank	1993
119X	499	W	Unspecified Tank	1979
120X	499	W	Unspecified Tank	1990

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 64

ID	Distance (m)	Direction	Use	Date
121Y	0	On Site	Electricity Substation	1993
122Y	0	On Site	Electricity Substation	1989
123Z	21	N	Electricity Substation	1993
124Z	21	N	Electricity Substation	1989
125AA	35	W	Electricity Substation	1985
126AA	36	W	Electricity Substation	1993
127AA	36	W	Electricity Substation	1993
128AA	36	W	Electricity Substation	1982
129AA	36	W	Electricity Substation	1982
130AA	36	W	Electricity Substation	1984
131AB	37	N	Gas Governor	1985
132AB	38	N	Gas Governor	1993
133AB	38	N	Gas Governor	1993
134S	119	W	Electricity Substation	1994
135AC	119	W	Electricity Substation	1993
136AC	119	W	Electricity Substation	1993
137AC	119	W	Electricity Substation	1985
138S	121	W	Electricity Substation	1987
139S	121	W	Electricity Substation	1991
140	128	W	Electricity Substation	1967
141	140	N	Electricity Substation	1989
142AD	169	N	Electricity Substation	1990
143AD	170	N	Electricity Substation	1984

144AE	202	W	Electricity Substation	1994
145AE	202	W	Electricity Substation	1967
146AE	203	W	Electricity Substation	1991
147AE	203	W	Electricity Substation	1987
148AE	203	W	Electricity Substation	1981
149AF	227	N	Electricity Substation	1993
150AF	227	N	Electricity Substation	1994
151AF	227	N	Electricity Substation	1995
152AG	234	N	Electricity Substation	1994
153AG	234	N	Electricity Substation	1996
154	284	W	Electricity Substation	1994
155AH	302	W	Electricity Substation	1993
156AH	302	W	Electricity Substation	1993
157AH	307	W	Electricity Substation	1985
158AI	322	W	Electricity Substation	1967
159AI	322	W	Electricity Substation	1987
160AI	322	W	Electricity Substation	1991
161AI	322	W	Electricity Substation	1981
162AI	322	W	Electricity Substation	1987
163AI	322	W	Electricity Substation	1994
164AJ	338	W	Electricity Substation	1981
165AJ	339	W	Electricity Substation	1996
166AJ	339	W	Electricity Substation	1996
167AJ	339	W	Electricity Substation	1993
168AJ	339	W	Electricity Substation	1973
169AK	346	NW	Electricity Substation	1990
170AK	352	NW	Electricity Substation	1984
171AK	352	NW	Electricity Substation	1979
172AL	372	N	Electricity Substation	1994
173AL	372	N	Electricity Substation	1996
174AM	428	N	Electricity Substation	1993
175AM	428	N	Electricity Substation	1994
176AM	428	N	Electricity Substation	1995
177AN	434	N	Electricity Substation	1994
178AN	434	N	Electricity Substation	1996
179AO	436	W	Electricity Substation	1993
180N	487	W	Electricity Substation	1976
181N	487	W	Electricity Substation	1993
182W	488	W	Electricity Substation	1990
183W	488	W	Electricity Substation	1979
184W	489	W	Electricity Substation	1993

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 4

ID	Distance (m)	Direction	Use	Date
185AP	0	On Site	Filling Station	1987
186AP	0	On Site	Filling Station	1991
187AP	0	On Site	Filling Station	1981
188	1	N	Filling Station	1984

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 0

Database searched and no data found.

1.6 Potentially Infilled Land

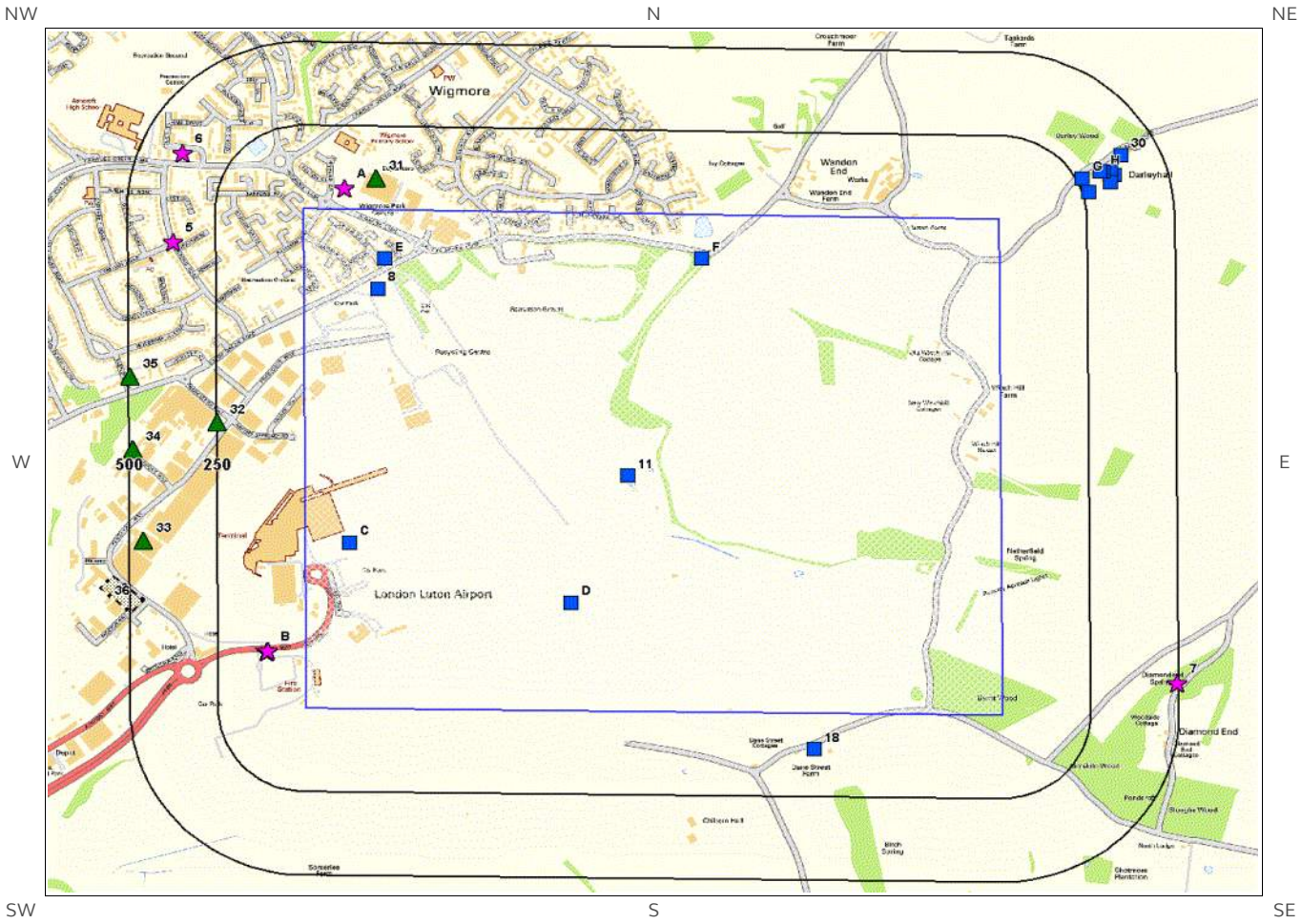
Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 62

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance(m)	Direction	Use	Date
189H	0	On Site	Old Gravel Pit	1899
190H	0	On Site	Old Gravel Pit	1879
191H	0	On Site	Unspecified Pit	1925
192H	0	On Site	Unspecified Pit	1947
193F	0	On Site	Unspecified Quarry	1947
194F	0	On Site	Unspecified Quarry	1925
195H	0	On Site	Unspecified Pit	1925
196A	0	On Site	Unspecified Pit	1947
197A	0	On Site	Unspecified Pit	1922
198A	0	On Site	Unspecified Pit	1938
199AQ	0	On Site	Unspecified Pit	1991
200AR	0	On Site	Pond	1879
201A	0	On Site	Unspecified Pit	1938
202A	0	On Site	Unspecified Pit	1922
203A	0	On Site	Unspecified Pit	1922
204H	0	On Site	Old Gravel Pit	1899
205H	0	On Site	Unspecified Pit	1951
206AS	0	On Site	Refuse Heap	1951
207C	0	On Site	Unspecified Pit	1985

208C	0	On Site	Unspecified Pit	1991
209E	0	On Site	Refuse Heap	1973
210E	0	On Site	Unspecified Workings	1991
211E	0	On Site	Unspecified Workings	1985
212A	0	On Site	Unspecified Pit	1938
213A	0	On Site	Unspecified Pit	1951
214A	0	On Site	Unspecified Pit	1938
215H	0	On Site	Old Gravel Pit	1888
216	61	N	Pond	1899
217AT	193	NW	Filter Bed	1973
218AT	203	NW	Pond	1985
219AT	203	NW	Pond	1991
220J	210	N	Unspecified Pit	1951
221J	211	N	Unspecified Pit	1938
222J	212	N	Unspecified Pit	1922
223J	212	N	Unspecified Pit	1947
224J	213	N	Old Chalk Pit	1900
225J	214	N	Unspecified Pit	1938
226J	214	N	Unspecified Pit	1922
227J	214	N	Unspecified Pit	1938
228J	214	N	Unspecified Pit	1922
229J	216	N	Unspecified Pit	1938
230K	245	SE	Chalk Pit	1899
231K	259	SE	Unspecified Quarry	1925
232K	259	SE	Chalk Pit	1899
233K	259	SE	Unspecified Quarry	1947
234K	260	SE	Unspecified Quarry	1951
235K	303	SE	Unspecified Pit	1881
236L	328	W	Brick and Tile Works	1888
237L	328	W	Brick and Tile Works	1888
238L	329	W	Brick and Tile Works	1879
239L	329	W	Brick and Tile Works	1879
240L	349	W	Clay Pit	1888
241L	349	W	Clay Pit	1888
242L	350	W	Clay Pit	1879
243M	377	W	Brick Kiln	1888
244M	377	W	Brick Kiln	1888
245M	381	W	Brick Kiln	1879
246M	381	W	Brick Kiln	1879
247O	405	W	Sewage Farm	1922
248O	405	W	Sewage Farm	1922
249	415	S	Pond	1881
250AU	461	N	Unspecified Pit	1881

2. Environmental Permits, Incidents and Registers Map



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- Site Outline
- Search Buffers (m) — 250 — 500
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

5

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
31	88	N	512075 222435	Address: Asda, Wigmore Lane, Stopsley, Luton, LU2 9TA Process: P02 Service Stations (1.2) Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices
32	249	W	511625 221704	Address: GKN Aerospace, Airport Way, LU2 9LU Process: P07 Coating (6.4) Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices
33	462	W	511414 221350	Address: Aerospace Composites, Luton Airport, LU2 9PQ Process: Coating & Enamelling Process Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices
34	490	W	511385 221625	Address: Airline Services, Provost Way, Luton, LU2 9PB Process: P10 Dry Cleaners Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices
35	496	W	511378 221843	Address: Kez's Dry Cleaners, 13 Eaton Green Road, LU2 9HE Process: P10 Dry Cleaners Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
8	0	On Site	512080 222110	Address: LUTON AIRPORT NORTHERN SOAKAWAY, PRESIDENT WAY, LONDON LUTON AIRPORT, LUTON, BEDFORDSHIRE, LU2 9PD Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRRP3221GC Permit Version: 1	Receiving Water: Status: NEW ISSUED UNDER EPR 2010 Issue date: 11/04/2012 Effective Date: 11-Apr-2012 Revocation Date: -
9C	0	On Site	512000 221350	Address: THE PAY STATION AT CAR PARK A, LOND, THE PAY STATION AT CAR PARK A, L, ONDON LUTON AIRPORT, LUTON, BEDF, ORDSHIRE, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1315 Permit Version: 1	Receiving Water: Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 04/03/1994 Effective Date: 04-Mar-1994 Revocation Date: 18/01/2006
10C	0	On Site	512000 221350	Address: THE PAY STATION AT CAR PARK A, LOND, THE PAY STATION AT CAR PARK A, L, ONDON LUTON AIRPORT, LUTON, BEDF, ORDSHIRE, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1315 Permit Version: 2	Receiving Water: Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 19/01/2006 Effective Date: 19-Jan-2006 Revocation Date: 19/01/2018
11	0	On Site	512790 221550	Address: LONDON LUTON AIRPORT OPERATIONS LTD, NAVIGATION HOUSE, LONDON LUTON AIRPORT, LUTON, -, LU2 9LY Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CANM.0448 Permit Version: 1	Receiving Water: Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/09/2002 Effective Date: 27-Sep-2002 Revocation Date: -
12D	0	On Site	512630 221170	Address: LUTON AIRPORT, LUTON, BEDFORDSHIRE, LUTON AIRPORT, LUTON, BEDFORDSHI, RE, -, - Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: CNTM.0180 Permit Version: 2	Receiving Water: Status: VARIED UNDER EPR 2010 Issue date: 31/05/2013 Effective Date: 31-May-2013 Revocation Date: -
13D	0	On Site	512630 221170	Address: LUTON AIRPORT, LUTON, BEDFORDSHIRE, LUTON AIRPORT, LUTON, BEDFORDSHI, RE, -, - Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: CNTM.0180 Permit Version: 1	Receiving Water: Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 22/04/1992 Effective Date: 22-Apr-1992 Revocation Date: 30/05/2013
14E	0	On Site	512100 222200	Address: Wigmore Bottom, Luton, Wigmore Bottom, Luton, -, - Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2256 Permit Version: 1	Receiving Water: Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02-Nov-1989 Revocation Date: 02/09/2010

ID	Distance (m)	Direction	NGR	Details	
15E	0	On Site	512100 222200	Address: Wigmore Bottom, Luton, Wigmore Bottom, Luton, -, - Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2256 Permit Version: 2	Receiving Water: Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03-Sep-2010 Revocation Date: 19/08/2014
16F	0	On Site	513000 222200	Address: Wanden End, Luton, Wanden End, Luton, -, -, LU2 8SN Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2175 Permit Version: 2	Receiving Water: Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03-Sep-2010 Revocation Date: -
17F	0	On Site	513000 222200	Address: Wanden End, Luton, Wanden End, Luton, -, -, LU2 8SN Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2175 Permit Version: 1	Receiving Water: Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02-Nov-1989 Revocation Date: 02/09/2010
18	109	S	513320 220730	Address: DANE STREET FARMHOUSE WEST, DANE ST, DANE STREET FARMHOUSE WEST, DANE, STREET, PETERS GREEN, LUTON, BE, DFORDSHIRE, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1324 Permit Version: 1	Receiving Water: Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 04/03/1994 Effective Date: 04-Mar-1994 Revocation Date: -
19G	265	NE	514080 222440	Address: THE FOX, DARLEYHALL, LUTON, BEDS, THE FOX, DARLEYHALL, LUTON, BEDS, -, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0128 Permit Version: 2	Receiving Water: Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21-Dec-2012 Revocation Date: -
20G	265	NE	514080 222440	Address: THE FOX, DARLEYHALL, LUTON, BEDS, THE FOX, DARLEYHALL, LUTON, BEDS, -, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0128 Permit Version: 1	Receiving Water: Status: TRANSFERRED FROM WRA 1963 Issue date: 09/02/1968 Effective Date: 09-Feb-1968 Revocation Date: 20/12/2012
21G	269	E	514100 222400	Address: FIELDVIEW, DARLEYHALL, LUTON, BEDS, FIELDVIEW, DARLEYHALL, LUTON, BE, DS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0242 Permit Version: 1	Receiving Water: Status: TRANSFERRED FROM WRA 1963 Issue date: 09/10/1970 Effective Date: 09-Oct-1970 Revocation Date: -
22H	319	NE	514130 222460	Address: SUN COTTAGE, DARLEYHALL, LUTON, BED, SUN COTTAGE, DARLEYHALL, LUTON,, BEDS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0244 Permit Version: 1	Receiving Water: Status: TRANSFERRED FROM WRA 1963 Issue date: 09/10/1970 Effective Date: 09-Oct-1970 Revocation Date: -

ID	Distance (m)	Direction	NGR	Details	
23H	328	NE	514140 222460	Address: PRIMROSE HILL, DARLEYHALL, LUTON, B, PRIMROSE HILL, DARLEYHALL, LUTON, , BEDS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0245 Permit Version: 1	Receiving Water: Status: TRANSFERRED FROM WRA 1963 Issue date: 09/10/1970 Effective Date: 09-Oct-1970 Revocation Date: 20/12/2012
24H	328	NE	514140 222460	Address: PRIMROSE HILL, DARLEYHALL, LUTON, B, PRIMROSE HILL, DARLEYHALL, LUTON, , BEDS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0245 Permit Version: 2	Receiving Water: Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21-Dec-2012 Revocation Date: -
25H	335	E	514160 222430	Address: WAGGON COTTAGE, DARLEY HALL, LUTON,, WAGGON COTTAGE, DARLEY HALL, LUT, ON, BEDS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0131 Permit Version: 1	Receiving Water: Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 08/03/1968 Effective Date: 08-Mar-1968 Revocation Date: 01/10/1996
26H	346	NE	514160 222460	Address: PRIMROSE HILL, DARLEYHALL, LUTON, B, PRIMROSE HILL, DARLEYHALL, LUTON, , BEDS, -, - Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCU.0117 Permit Version: 1	Receiving Water: Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 08/12/1967 Effective Date: 08-Dec-1967 Revocation Date: 01/10/1996
27H	353	E	514172 222450	Address: 4,5 AND 6 DARLEY HALL, LUTON, LUTON, BEDFORDSHIRE, LU2 8PP, LU2 8PP Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CANM.1139 Permit Version: 1	Receiving Water: Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/07/2006 Effective Date: 25-Jul-2006 Revocation Date: -
28H	353	E	514172 222450	Address: 4,5 AND 6 DARLEY HALL, LUTON, LUTON, BEDFORDSHIRE, LU2 8PP, LU2 8PP Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CANM.1139 Permit Version: 1	Receiving Water: Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/07/2006 Effective Date: 25-Jul-2006 Revocation Date: -
29H	353	E	514172 222450	Address: 4,5 AND 6 DARLEY HALL, LUTON, LUTON, BEDFORDSHIRE, LU2 8PP, LU2 8PP Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CANM.1139 Permit Version: 1	Receiving Water: Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/07/2006 Effective Date: 25-Jul-2006 Revocation Date: -
30	395	NE	514190 222510	Address: OAKWOOD, DARLEY HALL, LUTON, BEDS, ., LU2 8PP Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CATM.3579 Permit Version: 1	Receiving Water: Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 16/07/1999 Effective Date: 30-Apr-1999 Revocation Date: -

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 1

The following COMAH & NIHHS Authorisation records provided by the Health and Safety Executive are represented as polygons or buffered points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	Company	Address	Operational Status	Tier
36	460	W	Shell Uk Oil Products Ltd	Shell Uk Oil Products Ltd, Luton Airport, Terminal Building, Percival Way, Luton, Bedfordshire, LU2 9LU	Current COMAH Site	COMAH Lower Tier Operator

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2.3 Environment Agency Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

7

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
1A	62	N	511984 222410	Incident Date: 22-Aug-2002 Incident Identification: 102538 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
2A	62	N	511984 222410	Incident Date: 22-Aug-2002 Incident Identification: 102538 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Distance (m)	Direction	NGR	Details	
3B	110	W	511768 221024	Incident Date: 16-Jan-2002 Incident Identification: 52824 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4B	114	W	511764 221022	Incident Date: 13-Oct-2001 Incident Identification: 36419 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
5	373	W	511499 222251	Incident Date: 24-Feb-2014 Incident Identification: 1211679 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
6	385	NW	511524 222517	Incident Date: 22-Feb-2014 Incident Identification: 1211112 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
7	494	E	514348 220929	Incident Date: 03-Jun-2002 Incident Identification: 82690 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

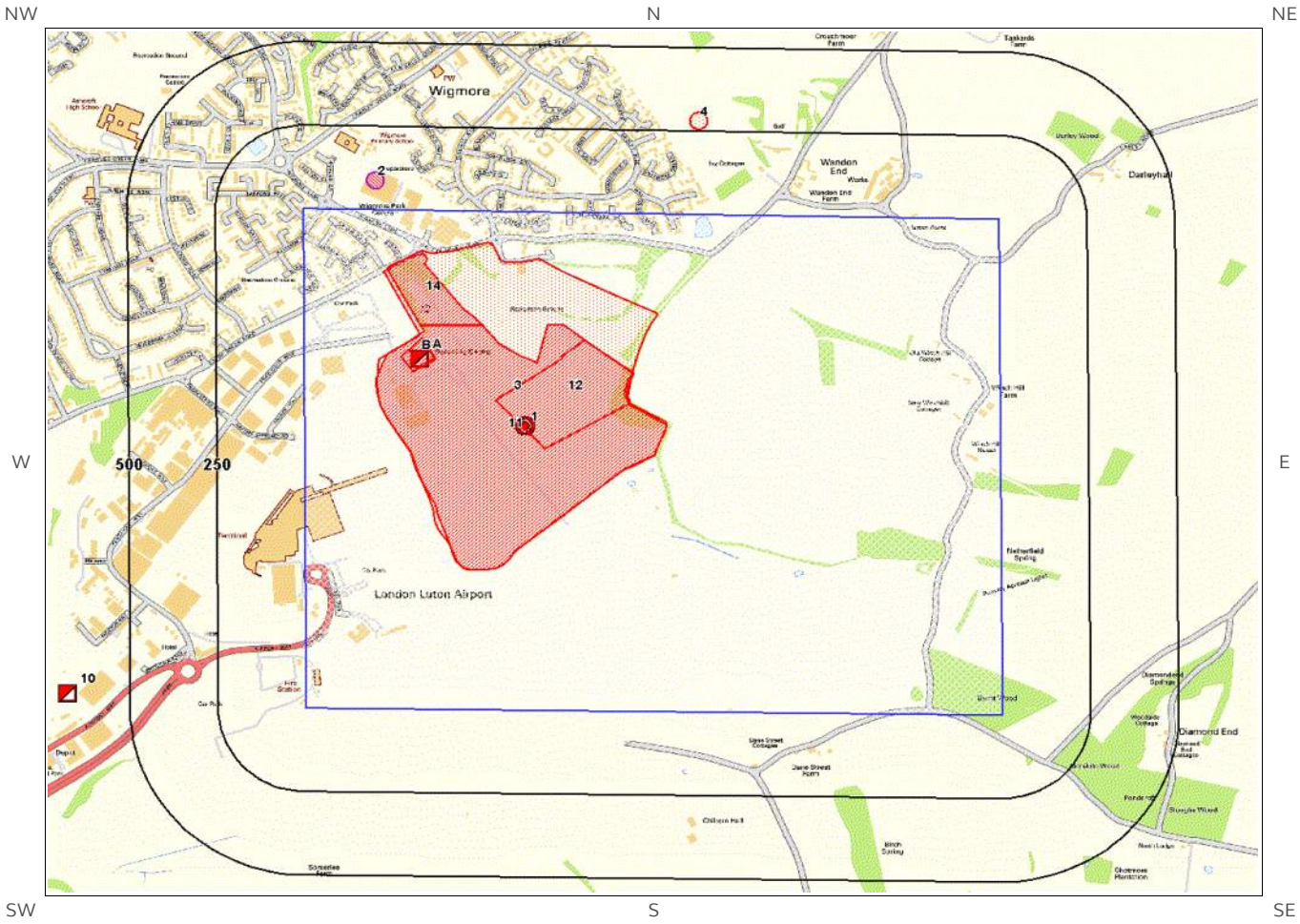
Database searched and no data found.

2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site? 0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



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Site Outline

250 500 Search Buffers (m)

E.A. Active Landfill

E.A. Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

E.A. Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site:

2

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
3	0	On Site	512400 221700	Site Address: Luton Airport, Eaton Green Road, Luton, Bedfordshire Waste Licence: - Site Reference: 7/1976, 32/1993 Waste Type: Inert, Industrial, Commercial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Hold Address: - Operator: Luton County Borough Council First Recorded: 01-Jan-1937 Last Recorded: 01-Jan-1978
4	255	N	512900 222600	Site Address: Wandon End Farm, Luton, Bedfordshire Waste Licence: Yes Site Reference: 91/261 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 05-Aug-1991 Licence Surrendered: 31-Jan-1993 Licence Hold Address: - Operator: - First Recorded: 05-Aug-1991 Last Recorded: 31-Jan-1993

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

1

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
1	0	On Site	512500.0 221700.0	Address: Town Refuse Tip, Eaton Grn Rd, Luton, Beds BGS Number: 1251.0	Risk: Risk to major aquifer Waste Type: N/A

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

5

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
11	0	On Site	512489 221635	Refuse Tip	1971 mapping	Polygon
12	0	On Site	512612 221794	Landfill Site	1990 mapping	Polygon
13B	0	On Site	512205 221918	Public Refuse Tip	1990 mapping	Polygon
14	0	On Site	512243 222107	Refuse Tip	1971 mapping	Polygon
15B	0	On Site	512196 221912	Public Refuse Tip	1993 mapping	Polygon

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

1

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details		
2	63	N	512074 222435	Type of Site: Recycling Area Site Address: Asda Stores Ltd,Wigmore Lane, Wigmore Park Centre, LUTON, Bedfordshire, LU2 9TA	Planning Application Reference: 09/00213/FUL Date: 02/09/2009	Further Details: Scheme comprises installation of 2 security barriers and relocation of recycling area and trolley bay. An application (ref: 09/00213/FUL) for detailed planning permission was granted by Luton B.C. A detailed planning application has been granted. Data Source: Historic Planning Application Data Type: Point

3.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site:

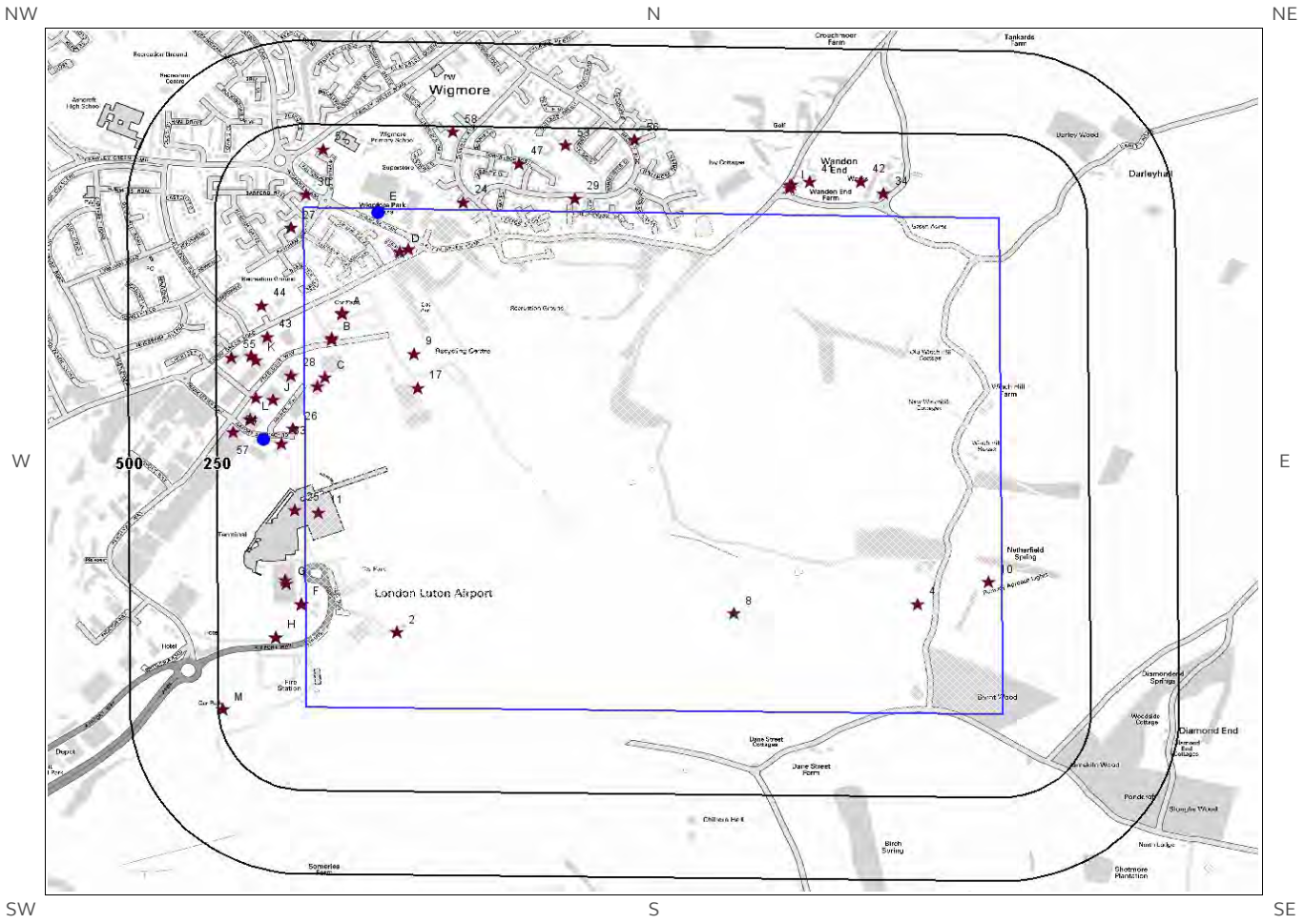
6

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
5A	0	On Site	512200 221900	Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: - Operator: Waste Recycling Limited Waste Management licence No: 80489 Annual Tonnage: 0.0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: "Luton Tidy Tip, Eaton Green Road Ca Site" Correspondence Address: -, Waste Recycling Group, Sutton Courtenay Lanfill Site, Appleford Sidings, Abingdon, Oxon, OX14 4PW
6A	0	On Site	512200 221900	Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: - Operator: Waste Recycling Ltd Waste Management licence No: 80489 Annual Tonnage: 0.0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: "Luton Tidy Tip, Eaton Green Road Ca Site" Correspondence Address: -, Waste Recycling Group, Sutton Courtenay Lanfill Site, Appleford Sidings, Abingdon, Oxon, OX14 4PW
7A	0	On Site	512200 221900	Site Address: Land/ Premises At, Eaton Green Road, Luton, Bedfordshire, LU2 9NW Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: EA/EPR/XP3597NS/V002 Operator: Waste Recycling Ltd Waste Management licence No: 80489 Annual Tonnage: 24999.0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified: 07/12/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Eaton Green Civic Amenity Site Correspondence Address: -, -
8A	0	On Site	512200 221900	Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LUT006 EPR reference: - Operator: Luton Borough Council Waste Management licence No: 80489 Annual Tonnage: 0.0	Issue Date: 01/04/1993 Effective Date: 31/05/2001 Modified: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: "Luton Tidy Tip, Eaton Green Road Ca Site" Correspondence Address: Mr R Taafe T/A C A Management Services, Waste Management Div, Central Depot, Kingsway, Luton, Beds, LU4 8AU

ID	Distance (m)	Direction	NGR	Details	
9A	0	On Site	512200 221900	Site Address: Eaton Green H W R C, Eaton Green Road, Luton, Bedfordshire, LU2 9HB Type: Household Waste Amenity Site Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: EA/EPR/XP3597NS/V004 Operator: F C C Recycling (U K) Limited Waste Management licence No: 80489 Annual Tonnage: 24999.0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified: 27/09/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Eaton Green Household Waste Recycling Centre Correspondence Address: -, -
10	679	W	511200 220900	Site Address: Andy Ronald, Central Services, Kimpton Road, Luton, Bedfordshire, LU2 0TY Type: In-House Storage Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VAU001 EPR reference: EA/EPR/LP3197NX/V003 Operator: Vauxhall Motors Ltd Waste Management licence No: 80459 Annual Tonnage: 75000.0	Issue Date: 22/04/1981 Effective Date: - Modified: 30/06/1997 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC Site Name: Vauxhall Airport Way (Kimpton Lane) Correspondence Address: -, -

4. Current Land Use Map



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Site Outline

Search Buffers (m)
250
500

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 60

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1D	0	On Site	Electricity Sub Station	512142 222220	LU2	Electrical Features	Infrastructure and Facilities
2	0	On Site	Electricity Sub Station	512135 221079	LU2	Electrical Features	Infrastructure and Facilities
3A	0	On Site	Hertz Car Hire	511980 222033	Reception Building, 250 Presidentary Way, London Luton Airport, Luton, LU2 9LY	Vehicle Hire and Rental	Hire Services
4	0	On Site	Air Light Beacons	513613 221164	LU2	Aeronautical Features	Air
5B	0	On Site	Electricity Sub Station	511951 221957	LU2	Electrical Features	Infrastructure and Facilities
6C	0	On Site	Electricity Sub Station	511930 221842	LU2	Electrical Features	Infrastructure and Facilities
7A	0	On Site	National Car Rental	511980 222037	Building 250, President Way, London Luton Airport, Luton, LU2 9LY	Vehicle Hire and Rental	Hire Services
8	0	On Site	Wind Sock	513091 221136	LU2	Aeronautical Features	Air
9	0	On Site	Refuse Tip	512184 221913	LU2	Refuse Disposal Facilities	Infrastructure and Facilities
10	0	On Site	Air Light Beacons	513814 221230	LU2	Aeronautical Features	Air
11	0	On Site	London Luton Airport	511913 221438	LU2	Airports and Landing Strips	Air
12A	0	On Site	Enterprise Rent-A-Car	511980 222034	London Luton Airport External, London Luton Airport External, Spittlesea Road, Luton, Bedfordshire, Lu2 9nz, LU2	Vehicle Hire and Rental	Hire Services
13B	0	On Site	Electricity Sub Station	511949 221962	LU2	Electrical Features	Infrastructure and Facilities
14A	0	On Site	Alamo Rent A Car	511978 222032	President Way, Luton, LU2 9NL	Vehicle Hire and Rental	Hire Services
15A	0	On Site	Europcar	511978 222032	President Way, Luton, LU2 9NL	Vehicle Hire and Rental	Hire Services
16C	0	On Site	Harrods Aviation	511908 221816	Hangar 129, President Way, Luton, LU2 9NW	Aeroplanes	Industrial Products
17	0	On Site	Electricity Sub Station	512195 221811	LU2	Electrical Features	Infrastructure and Facilities

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
18D	0	On Site	Pumping Station	512166 222226	LU2	Water Pumping Stations	Industrial Features
19E	0	N	Asda Luton Automat	512080 222347	Wigmore Lane, Wigmore, Luton, Bedfordshire, LU2 8DJ	Petrol and Fuel Stations	Road and Rail
20E	0	N	Asda Petrol	512082 222347	Wigmore Hall Shopping Centre, Wigmore Lane, Luton, LU2 9TA	Petrol and Fuel Stations	Road and Rail
21F	14	W	Europe Car	511863 221164	Navigation House, Airport Way, London Luton Airport, Luton, LU2 9LY	Vehicle Hire and Rental	Hire Services
22F	14	W	London Luton Airport	511863 221164	Navigation House, Airport Way, London Luton Airport, Luton, LU2 9LY	Vehicle Hire and Rental	Hire Services
23F	14	W	London Luton Airport Operations Ltd	511863 221164	Navigation House, Airport Way, London Luton Airport, Luton, LU2 9LY	Airports and Landing Strips	Air
24	24	N	Electricity Sub Station	512324 222367	LU2	Electrical Features	Infrastructure and Facilities
25	31	W	Avis Rent A Car	511845 221446	London Luton Airport External, London Luton Airport External, Spittlesea Road, Luton, Bedfordshire, Lu2 9nz, LU2	Vehicle Hire and Rental	Hire Services
26	36	W	Electricity Sub Station	511839 221690	LU2	Electrical Features	Infrastructure and Facilities
27	36	W	Electricity Sub Station	511835 222291	LU2	Electrical Features	Infrastructure and Facilities
28	39	W	Reed Aviation Ltd	511834 221849	Gate 8, Prince Way, Luton, LU2 9PD	Airlines and Airline Services	Transport, Storage and Delivery
29	41	N	Electricity Sub Station	512639 222379	LU2	Electrical Features	Infrastructure and Facilities
30	41	N	Gas Governor Station	511877 222391	LU2	Gas Features	Infrastructure and Facilities
31G	56	W	Budget Rent A Car	511821 221224	London Luton Airport External, London Luton Airport External, Spittlesea Road, Luton, Bedfordshire, Lu2 9nz, LU2	Vehicle Hire and Rental	Hire Services
32G	59	W	Alamo Rent A Car	511818 221236	London Luton Airport External, London Luton Airport External, Spittlesea Road, Luton, Bedfordshire, Lu2 9nz, LU2	Vehicle Hire and Rental	Hire Services
33	66	W	Landmark Aviation	511808 221644	Britannia House 135, Frank Lester Way, London Luton Airport, Luton, LU2 9NQ	Aircraft Charters	Contract Services
34	69	N	A T Oliver & Sons Ltd	513516 222393	Wandon End, Luton, LU2 8NY	Agricultural Machinery and Goods	Industrial Products
35I	82	N	Silo	513249 222410	LU2	Hoppers and Silos	Farming
36H	87	W	Pylon	511791 221065	LU2	Electrical Features	Infrastructure and Facilities
37H	87	W	Mast	511790 221065	LU2	Telecommunications Features	Infrastructure and Facilities

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
38I	89	N	Silo	513249 222417	LU2	Hoppers and Silos	Farming
39J	90	W	Dot Group International	511784 221774	Unit 2, Prince Way, Luton, LU2 9PD	Office and Shop Equipment	Industrial Products
40I	92	N	Silo	513254 222420	LU2	Hoppers and Silos	Farming
41	102	N	Pump	513307 222429	LU2	Water Pumping Stations	Industrial Features
42	105	N	Works	513450 222430	LU2	Unspecified Works Or Factories	Industrial Features
43	105	W	Z F Electronics UK Ltd	511767 221965	Unit L Airport Executive Park, President Way, Luton, LU2 9NY	Electrical Components	Industrial Products
44	123	W	Electricity Sub Station	511750 222059	LU2	Electrical Features	Infrastructure and Facilities
45K	138	W	Honeywell Aerospace	511735 221894	65, President Way, Luton, LU2 9NL	Aviation Engineers	Engineering Services
46J	138	W	Electricity Sub Station	511736 221782	LU2	Electrical Features	Infrastructure and Facilities
47	143	N	Electricity Sub Station	512482 222483	LU2	Electrical Features	Infrastructure and Facilities
48K	153	W	Air Cargo & Container Services	511720 221907	Unit H, President Way, Luton, LU2 9NL	Distribution and Haulage	Transport, Storage and Delivery
49L	156	W	A E M	511718 221717	De Havilland House, President Way, Luton, LU2 9NL	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
50L	156	W	Kensal Handling System Ltd	511718 221717	Kensal House, President Way, Luton, LU2 9NR	Lifting and Handling Equipment	Industrial Products
51L	156	W	First Class Cars	511718 221717	Kensal House, President Way, Luton, LU2 9NL	Vehicle Hire and Rental	Hire Services
52	177	N	Electricity Sub Station	511926 222526	LU2	Electrical Features	Infrastructure and Facilities
53	200	N	Southeast Executive Chauffeur Services	512612 222537	41, Emmer Green, Luton, LU2 8UH	Vehicle Hire and Rental	Hire Services
54	205	W	Electricity Sub Station	511670 221679	LU2	Electrical Features	Infrastructure and Facilities
55	209	W	Moog Fernau Ltd	511664 221902	Unit C Airport Executive Park, President Way, Luton, LU2 9NY	Aviation Engineers	Engineering Services
56	219	N	Electricity Sub Station	512810 222554	LU2	Electrical Features	Infrastructure and Facilities
57	230	W	Pylon	511645 221587	LU2	Electrical Features	Infrastructure and Facilities
58	235	N	Electricity Sub Station	512293 222578	LU2	Electrical Features	Infrastructure and Facilities
59M	237	W	Luton Minibus	511642 220848	Long Stay South Car Park, Airport Way, London Luton Airport, Luton, LU2 9QT	Vehicle Hire and Rental	Hire Services

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
60M	237	W	London Airport	511641 220848	Long Stay South Car Park, Airport Way, London Luton Airport, Luton, LU2 9QT	Vehicle Hire and Rental	Hire Services

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 2

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
61E	0	On Site	512081 222334	Asda	Asda Luton Automat, Wigmore Lane, Wigmore Lane, Wigmore, Luton, Bedfordshire, LU2 9TA	No	Open
62L	118	W	511757 221656	Obsolete	Q8 Luton, Airport Approach Road, Airport Approach Road, Luton, Bedfordshire, LU2 9PF	Not Applicable	Obsolete

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
MGR-MGRD	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
MGR-MGRD	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
LOFT	LOWESTOFT FORMATION	DIAMICTON
CWF	CLAY-WITH-FLINTS FORMATION	CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME]
HEAD	HEAD	CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME]

5.3 Bedrock and Solid Geology

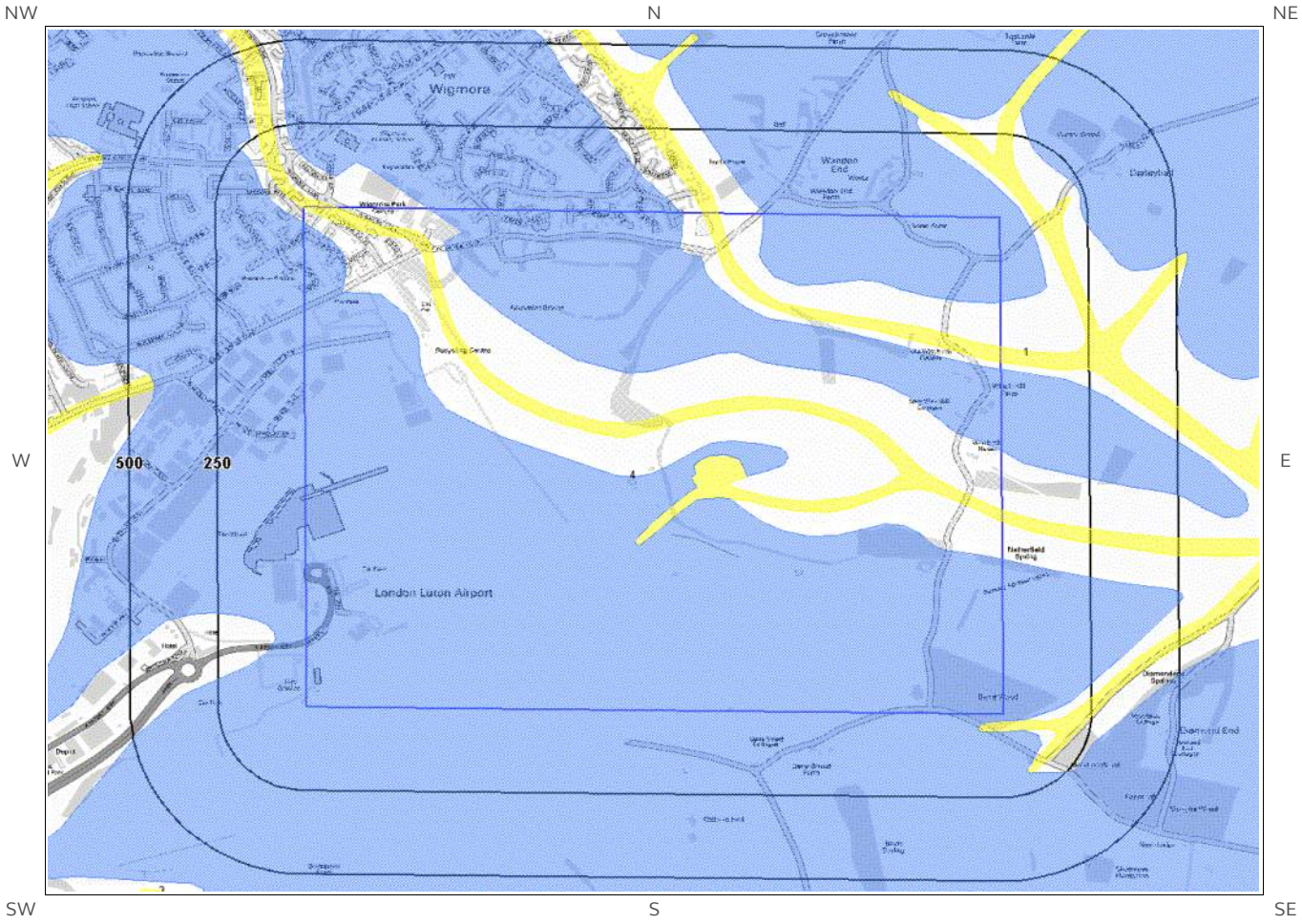
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED)	CHALK
CKR-CHLK	CHALK ROCK MEMBER	CHALK
LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED)	CHALK

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

6a. Aquifer Within Superficial Geology



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Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

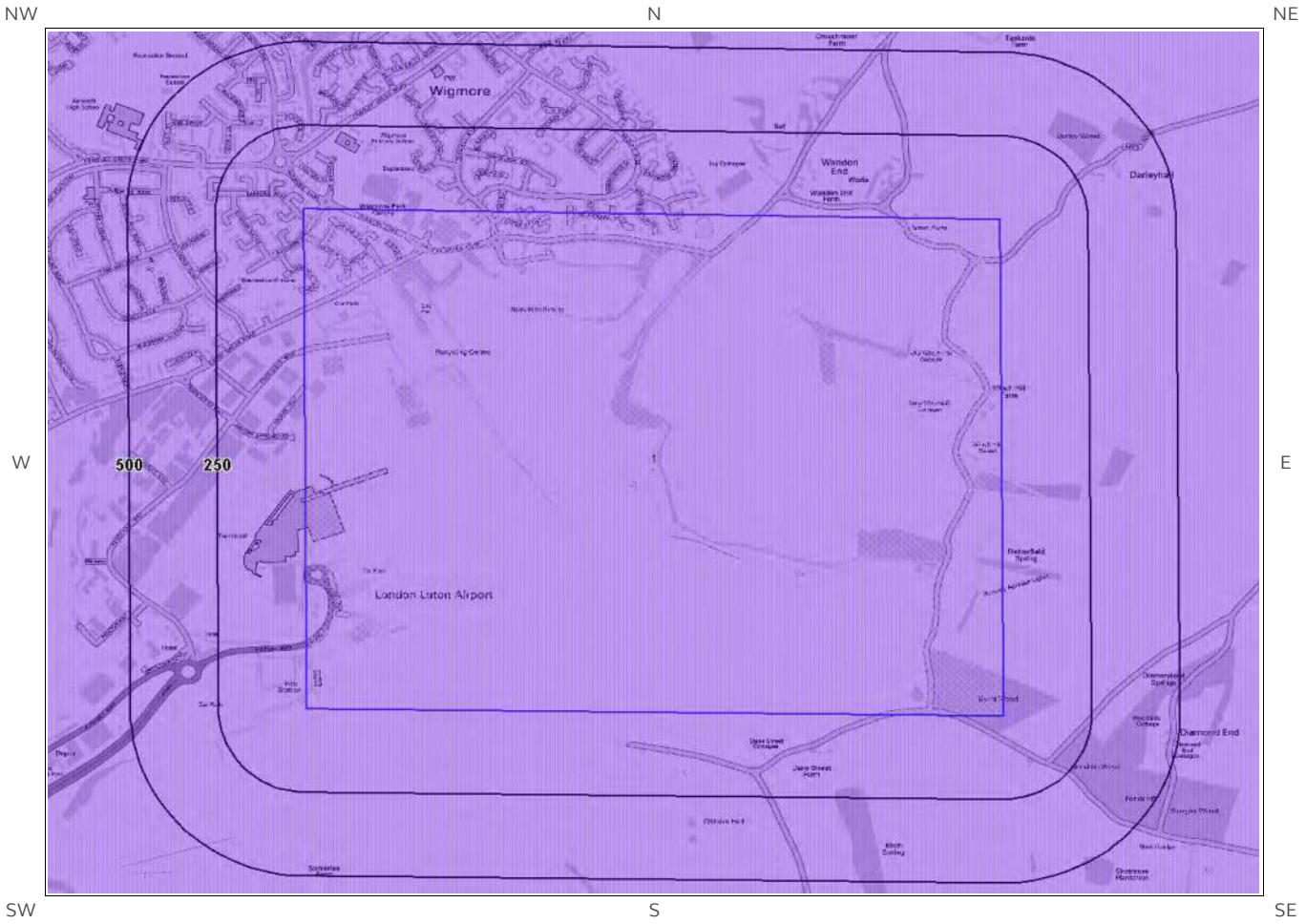
Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

6b. Aquifer Within Bedrock Geology and Abstraction Licenses



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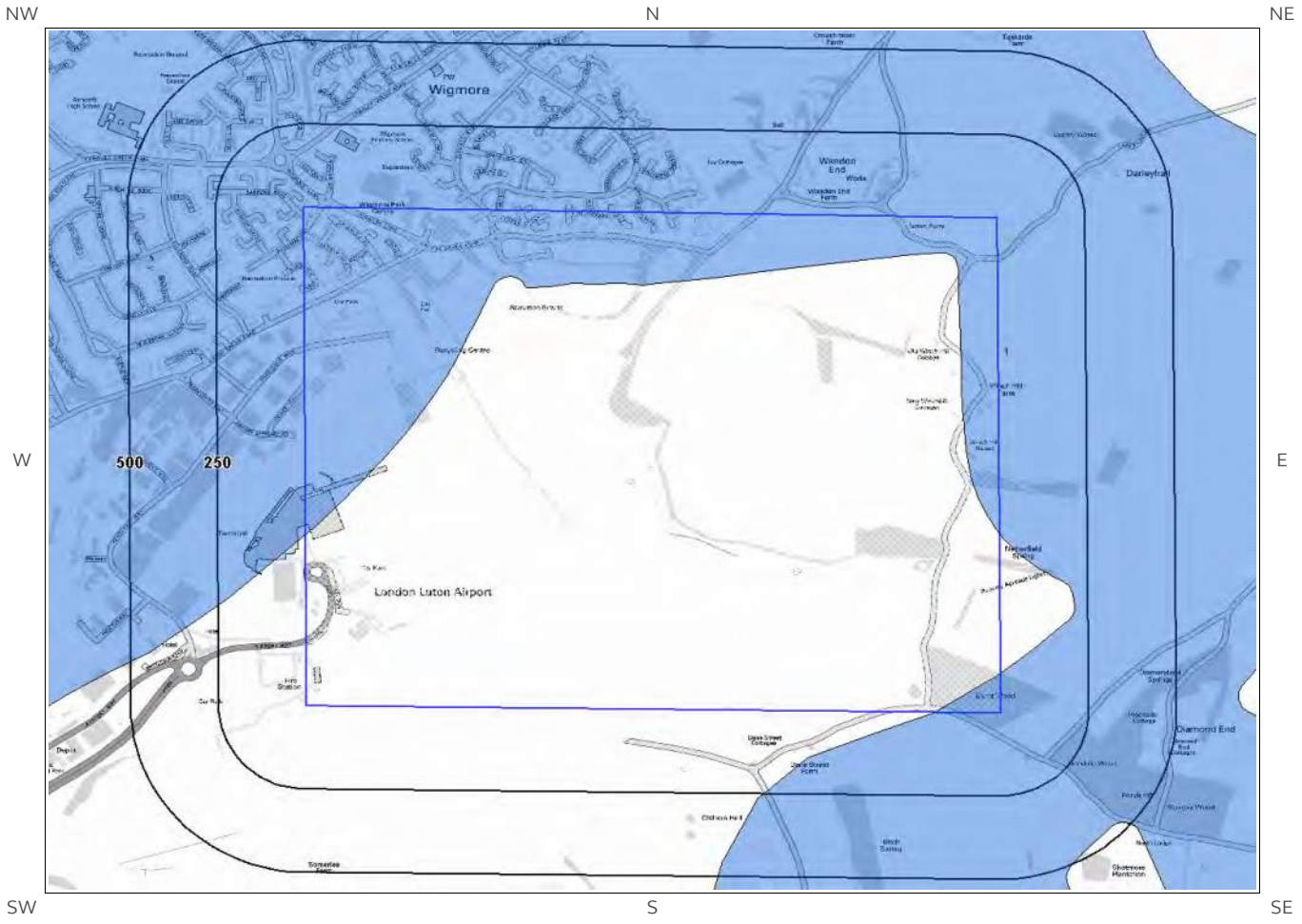
Site Outline
250
500
Search Buffers (m)
Principal Aquifer
Secondary (A) Aquifer - Permeable Layers
Secondary (B) Aquifer - Lower Permeability Layers
Groundwater Abstraction Licence
Secondary Aquifer - Undifferentiated Layers
Unproductive
Unknown (lakes and landslip)
Surface Water Abstraction Licence

6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



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Site Outline

250
500
Search Buffers (m)

Source Protection Zone 1 - Inner Catchment

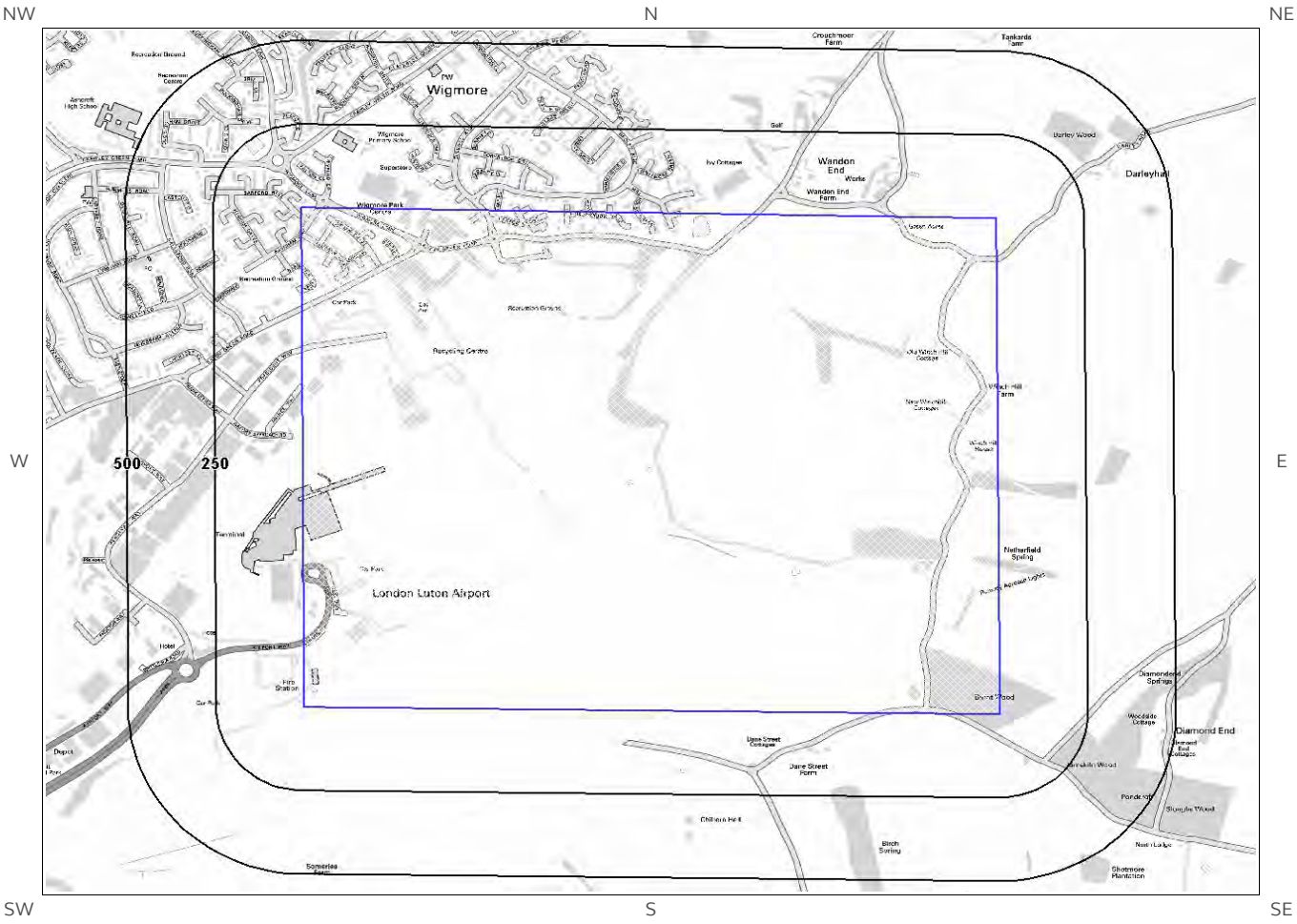
Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

6d. Hydrogeology – Source Protection Zones within confined aquifer



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Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2C - Outer Catchment within Confined Aquifer

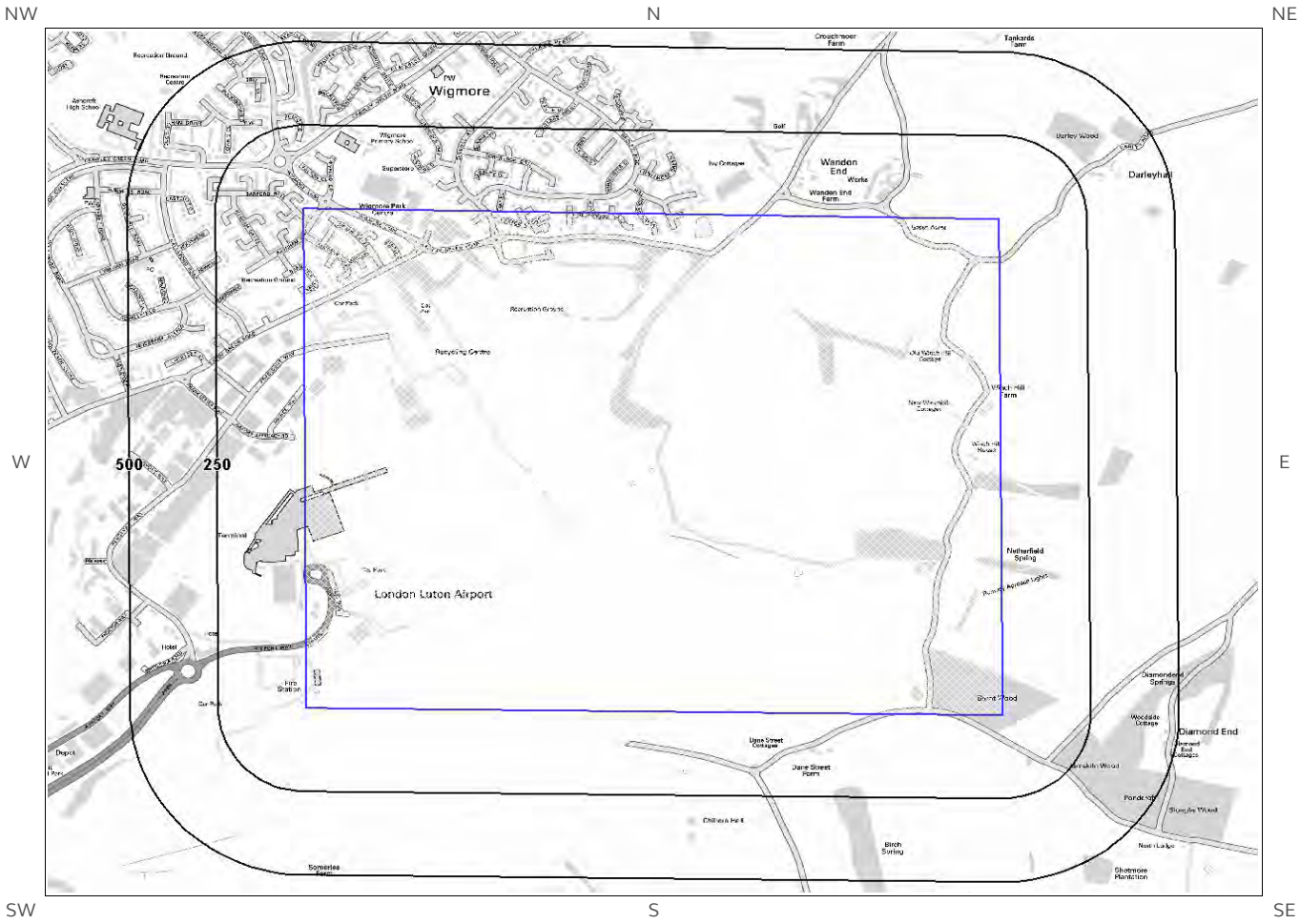
Source Protection Zone 3C - Total Catchment within Confined Aquifer

Potable Water Abstraction Licence

Site Outline

250
500
Search Buffers (m)

6e. Hydrology – Detailed River Network and River Quality



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Site Outline

250 Search Buffers (m)
500

Primary River
Secondary River
Tertiary River
Lake/Reservoir
Underground River (inferred)
General Quality Assessment: Biology
General Quality Assessment: Chemistry

Canal
Canal Tunnel
Culvert
Multiple Channel Culvert
Underground River (Potential Sewer)
Underground River (local knowledge)

6.Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
1	0	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
4	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	427	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

6.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site? Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details	
Not shown	977	W	510900 221200	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'd' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
Not shown	1007	W	510870 221250	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole D Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 102 Version Start Date: 15/5/2008 Version End Date:
Not shown	1007	W	510870 221220	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole C Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 102 Version Start Date: 15/5/2008 Version End Date:
Not shown	1077	W	510800 221200	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'c' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
Not shown	1197	W	510700 220650	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole B Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 102 Version Start Date: 15/5/2008 Version End Date:
Not shown	1212	W	510690 220620	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole A Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 102 Version Start Date: 15/5/2008 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1304	W	510600 220600	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'b' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
Not shown	1327	W	510600 220500	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'a' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
Not shown	1638	S	513500 219200	Status: Historical Licence No: 29/38/02/0068 Details: General Farming & Domestic Direct Source: Thames Groundwater Point: Laburnum Farm, Chiltern Green - Borehole Data Type: Point Name: J B & B H MURCHIE	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: W/726/29/38 Original Start Date: 23/10/1969 Expiry Date: - Issue No: 100 Version Start Date: 23/10/1969 Version End Date:
Not shown	1839	NE	515400 223300	Status: Active Licence No: 29/38/02/0070 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Kings Walden Pumping Station Data Type: Point Name: Affinity Water Limited	Annual Volume (m^3): 829645 Max Daily Volume (m^3): 2841.25 Original Application No: NPS/WR/011805 Original Start Date: 21/5/1982 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date:

6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site? Yes

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

ID	Distance (m)	Direction	NGR	Details	
Not shown	1839	NE	515400 223300	Status: Active Licence No: 29/38/02/0070 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Kings Walden Pumping Station Data Type: Point Name: Affinity Water Limited	Annual Volume (m^3): 829645 Max Daily Volume (m^3): 2841.25 Original Application No: NPS/WR/011805 Original Start Date: 21/5/1982 Expiry Date: - Issue No: 102 Version Start Date: Version End Date:

6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site? Yes

The following Source Protection Zones records are represented on the SPZ and Potable Water Abstraction Map (6c):

ID	Distance (m)	Direction	Zone	Description
1	0	On Site	3	Total catchment

6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site? No

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency information on groundwater vulnerability and soil leaching potential within 500m of the study site? Yes

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Major Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.
0	On Site	Major Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

6.9 River Quality

Is there any Environment Agency information on river quality within 1500m of the study site? Yes

6.9.1 Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (6e):

ID	Distance (m)	Direction	NGR	River Quality Grade	Biological Quality Grade				
					2005	2006	2007	2008	2009
Not shown	1438	W	510440 221110	River Name: Lee (thames) Reach: Luton Hoo Lakes - Luton Stw End/Start of Stretch: Start of Stretch NGR	C	C	C	B	B
Not shown	1438	W	510440 221110	River Name: Lee (thames) Reach: Leagrave - Luton Hoo Lakes End/Start of Stretch: End of Stretch NGR	D	D	D	C	C

6.9.2 Chemical Quality:

Database searched and no data found.

6.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site? No

Database searched and no data found.

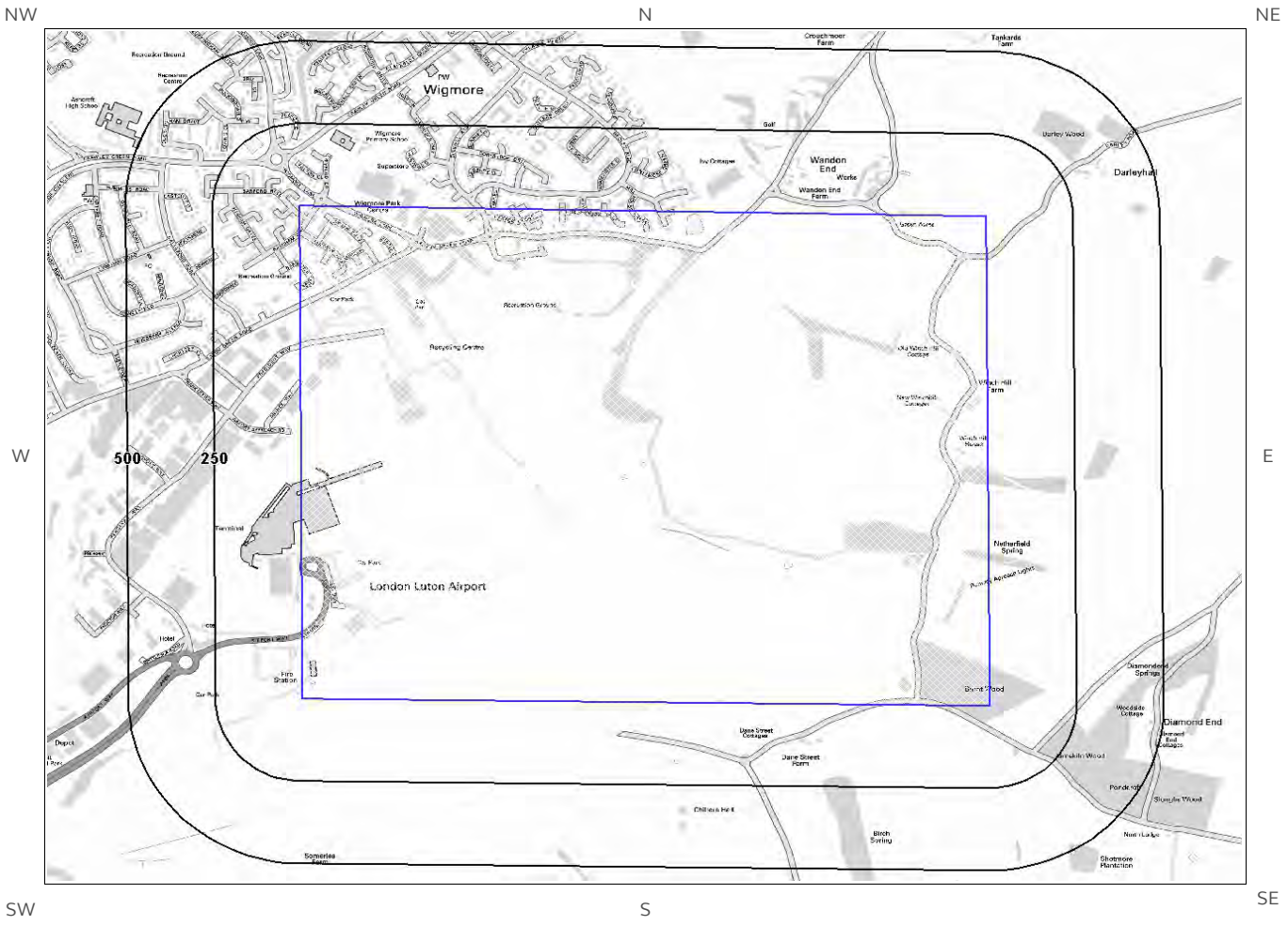
6.11 Surface Water Features

Are there any surface water features within 250m of the study site? Yes

The following surface water records are not represented on mapping:

Distance (m)	Direction
0	On Site
212	NW

7a. Environment Agency Flood Map for Planning (from rivers and the sea)



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Site Outline

100
250
Search Buffers (m)

Zone 2 Floodplain

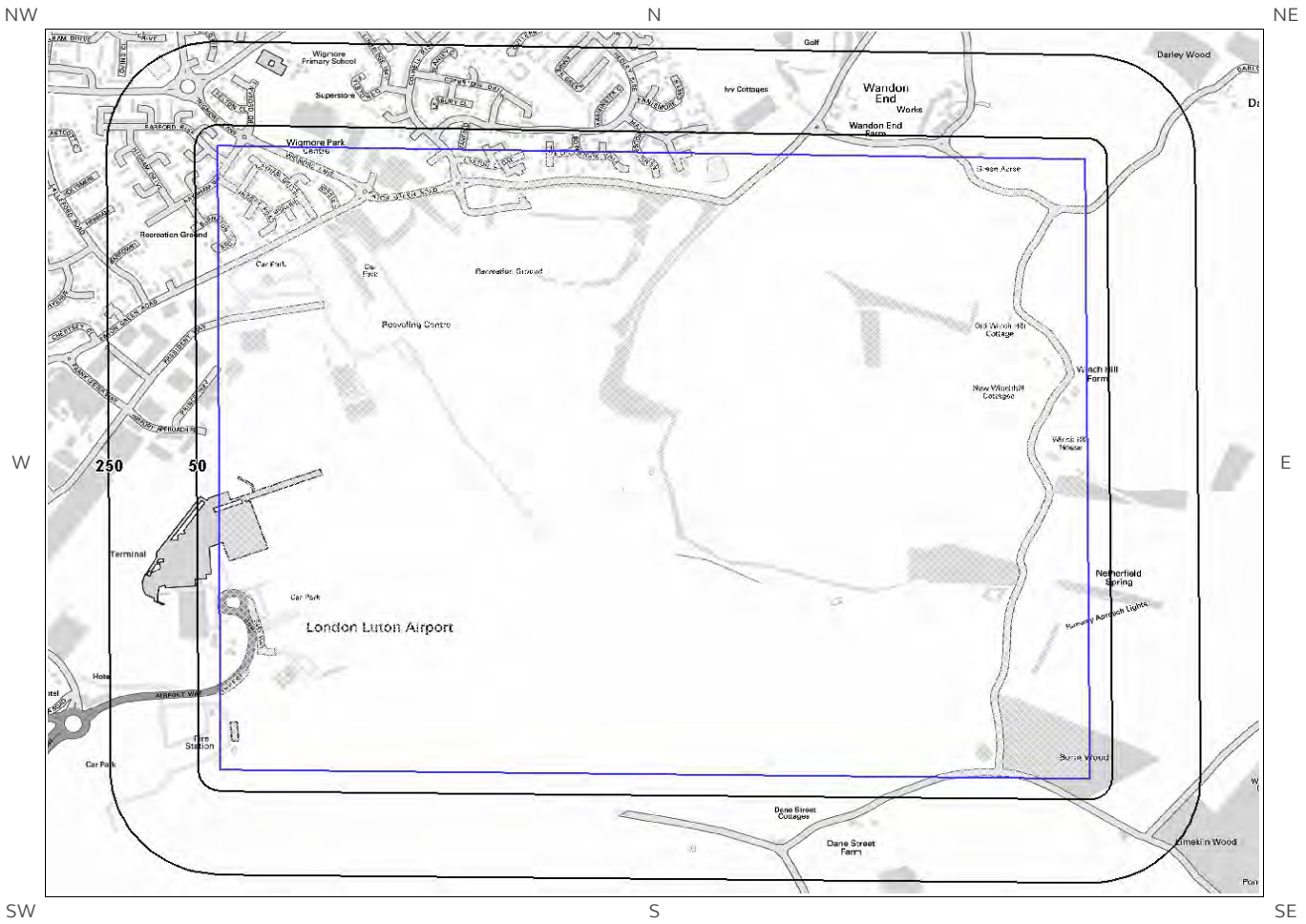
Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

Area Benefiting from Flood Defences

7b. Environment Agency Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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Site Outline

100
250
Search Buffers (m)

RoFRaS Rating

Very Low

Low

Medium

High

7 Flooding

7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency Zone 2 floodplain? No

Environment Agency Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency Zone 3 floodplain? No

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

What is the highest risk of flooding onsite? Very Low

The Environment Agency RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

7.4 Flood Defences

Are there any Flood Defences within 250m of the study site? No

Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? No

7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site? No

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding? Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

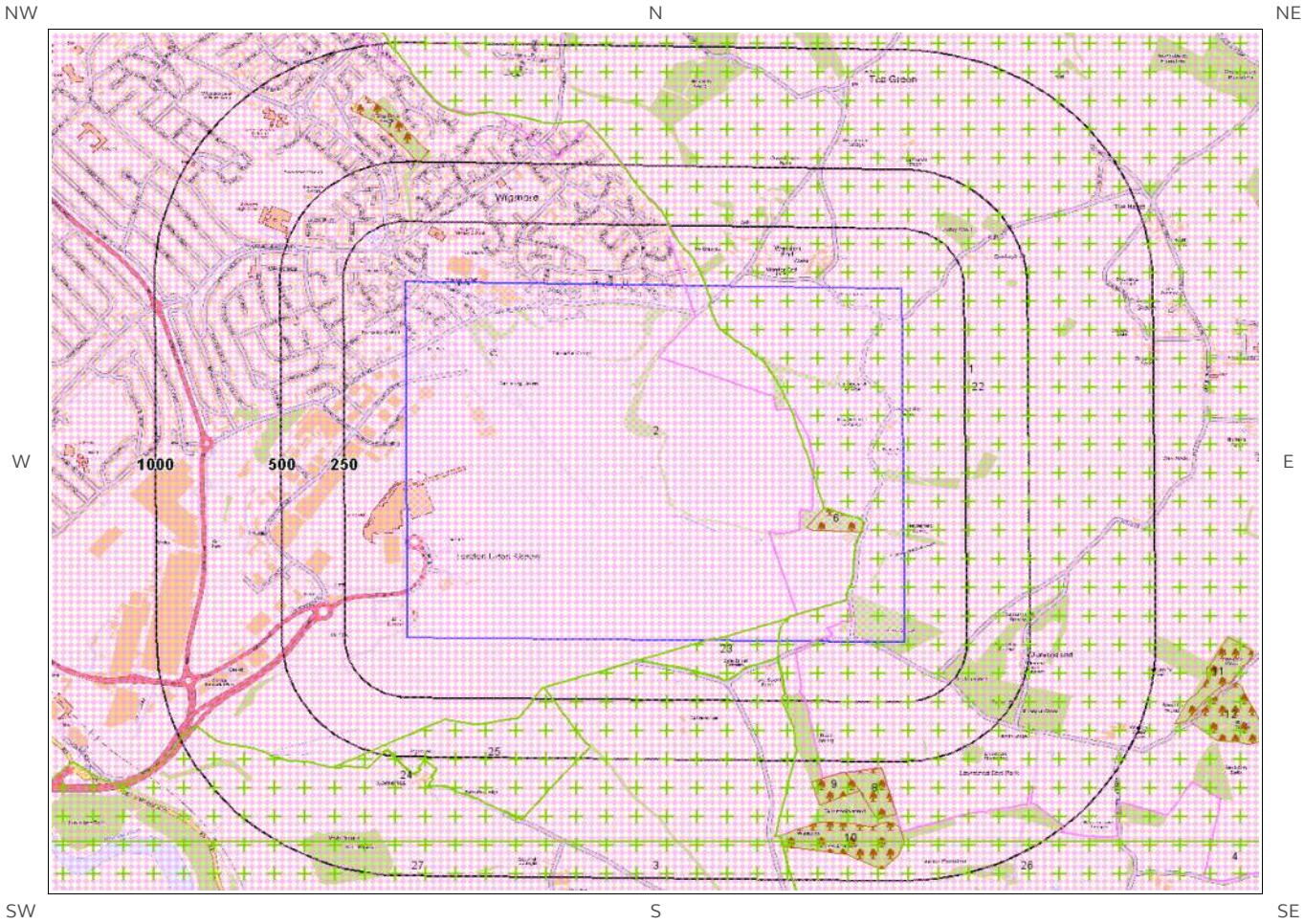
7.8 Groundwater Flooding Confidence Areas

What is the British Geological Survey confidence rating in this result? High

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



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Site Outline

100
250
Search Buffers (m)

AONB
National Park
SSSI
Special Protection Areas
Nitrate Vulnerable Zones
Green Belt
Environmentally Sensitive Areas
Special Areas of Conservation
World Heritage Sites
Nitrate Sensitive Areas
Ancient Woodland
National Nature Reserve
Local Nature Reserves
Ramsar Sites

8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site?	Yes

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

16

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
6	0	On Site	UNKNOWN	Ancient and Semi-Natural Woodland
7	497	N	UNKNOWN	Ancient and Semi-Natural Woodland
8	527	S	UNKNOWN	Ancient and Semi-Natural Woodland
9	548	S	UNKNOWN	Ancient Replanted Woodland
10	755	S	UNKNOWN	Ancient and Semi-Natural Woodland
11	1129	E	UNKNOWN	Ancient Replanted Woodland
12	1188	E	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1211	S	UNKNOWN	Ancient Replanted Woodland
Not shown	1273	S	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1333	N	UNKNOWN	Ancient Replanted Woodland
Not shown	1373	N	UNKNOWN	Ancient Replanted Woodland
17	1442	E	UNKNOWN	Ancient Replanted Woodland
Not shown	1450	S	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1452	S	UNKNOWN	Ancient Replanted Woodland
Not shown	1457	S	UNKNOWN	Ancient Replanted Woodland
Not shown	1521	E	UNKNOWN	Ancient Replanted Woodland

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

0

Database searched and no data found.

8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

5

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
1	0	On Site	Existing	DEFRA
2	0	On Site	Existing	DEFRA
3	834	S	Existing	DEFRA
4	1481	SE	Existing	DEFRA

ID	Distance (m)	Direction	NVZ Name	Data Source
Not shown	1871	W	Existing	DEFRA

8.14 Records of Green Belt land within 2000m of the study site:

7

Green Belt data contains Ordnance Survey data © Crown copyright and database right [2015].

ID	Distance	Direction	Green Belt Name	Local Authority Name
22	0	On Site	London Area Greenbelt	North Hertfordshire District
23	0	On Site	London Area Greenbelt	Luton (B)
24	67	S	London Area Greenbelt	Central Bedfordshire
25	203	S	London Area Greenbelt	Luton (B)
26	834	S	London Area Greenbelt	North Hertfordshire District
27	839	S	London Area Greenbelt	Central Bedfordshire
Not shown	1472	N	London Area Greenbelt	Luton (B)

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a Groundsure GeoInsight, available from our website. The following information has been found:

9.1.1 Shrink Swell

What is the maximum Shrink-Swell* hazard rating identified on the study site? Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.

9.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build Ö consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property Ö probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.

* This indicates an automatically generated 50m buffer and site.

9.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site? Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very significant soluble rocks are present, with a moderate possibility of local natural subsidence due to high surface or subsurface water flow. Do not load the land or undertake building work before obtaining specialist advice. Do not dispose of drainage to the ground. Some possibility groundwater pollution. Maintain drainage infrastructure. For new build Ö specialist site investigation and stability assessment may be necessary before construction. Construction work may cause subsidence. Increased construction costs are likely. For existing property Ö probable increase in insurance risk due to soluble rocks.

9.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

9.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

9.1.6 Running Sand

What is the maximum Running Sand* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing
ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

* This indicates an automatically generated 50m buffer and site.

10. Mining

10.1 Coal Mining

Are there any coal mining areas within 75m of the study site? No

Database searched and no data found.

10.2 Non-Coal Mining

Are there any Non-Coal Mining areas within 50m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

Distance (m)	Direction	Name	Commodity	Assessment of likelihood
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Occasional minor mining may have occurred but of restricted extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.

0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Rare and localised small scale mining may have occurred.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
0.0	On Site	Not available	Chalk	Small scale mining may have occurred but restricted in extent.
6.0	N	Not available	Chalk	Small scale mining may have occurred but restricted in extent.

Past underground mine workings are unlikely. The rock types present in these areas are such that mineral veins may be present on which it is possible that mining has been undertaken and/or it is possible that small scale underground extraction of other materials may have occurred. All such occurrences are likely to be of localised extent and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? No

Guidance: No Guidance Required.

Contact Details

Groundsure Helpline
Telephone: 08444 159 000
info@groundsure.com

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enquiries@bgs.ac.uk

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Web:**www.environment-agency.gov.uk**
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Public information access office
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133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
Email:**enquiries@phe.gov.uk**
Main switchboard**: 020 7654 8000**

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DX 716176 Mansfield 5
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Ordnance Survey
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Local Authority
Authority: North Hertfordshire District Council
Phone: 01462 474000
Web: http://www.north-herts.gov.uk/
Address: Council Offices, Gernon Road, Letchworth Garden Ci,

Gemapping PLC
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444

Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England who retain the Copyright and Intellectual Property Rights for the data.
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This report has been prepared in accordance with the Groundsure Ltd standard Terms and Conditions of business for work of this nature.

Standard Terms and Conditions

1 Definitions

I**n these terms and conditions unless the context otherwise requires:**

"Beneficiary" means the person or entity for whose benefit the Client has obtained the Services.

"Client" means the party or parties entering into a Contract with Groundsure.

"Commercial" means any building or property which is not Residential.

"Confidential Information" means the contents of this Contract and all information received from the Client as a result of, or in connection with, this Contract other than

(i) information which the Client can prove was rightfully in its possession prior to disclosure by Groundsure and

(ii) any information which is in the public domain (other than by virtue of a breach of this Contract).

"Support Services" means Support Services provided by Groundsure including, without limitation, interpreting third party and in-house environmental data, providing environmental support advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.

"Contract" means the contract between Groundsure and the Client for the provision of the Services, and which shall incorporate these terms and conditions, the Order, and the relevant User Guide.

"Third Party Data Provider" means any third party providing Third Party Content to Groundsure.

"Data Reports" means reports comprising factual data with no accompanying interpretation.

"Fees" has the meaning set out in clause 5.1.

"Groundsure" means Groundsure Limited, a company registered in England and Wales under number 03421028.

"Groundsure Materials" means all materials prepared by Groundsure and provided as part of the Services, including but not limited to Third Party Content, Data Reports, Mapping, and Risk Screening Reports.

"Intellectual Property" means any patent, copyright, design rights, trade or service mark, moral rights, data protection rights, know-how or trade mark in each case whether registered or not and including applications for the same or any other rights of a similar nature anywhere in the world.

"Mapping" means a map, map data or a combination of historical maps of various ages, time periods and scales.

"Order" means an electronic, written or other order form submitted by the Client requesting Services from Groundsure in respect of a specified Site.

"Ordnance Survey" means the Secretary of State for Business, Innovation and Skills, acting through Ordnance Survey, Adanac Drive, Southampton, SO16 0AS, UK.

"Order Website" means the online platform through which Orders may be placed by the Client and accepted by Groundsure.

"Report" means a Risk Screening Report or Data Report for Commercial or Residential property.

"Residential" means any building or property used as or intended to be used as a single dwelling.

"Risk Screening Report" means a risk screening report comprising factual data with an accompanying interpretation by Groundsure.

"Services" means any Report, Mapping and/or Support Services which Groundsure has agreed to provide by accepting an Order pursuant to clause 2.6.

"Site" means the area of land in respect of which the Client has requested Groundsure to provide the Services.

"Third Party Content" means data, database information or other information which is provided to Groundsure by a Third Party Data Provider.

"User Guide" means the user guide, as amended from time to time, available upon request from Groundsure and on the website (www.Groundsure.com) and forming part of this Contract.

2 Scope of Services, terms and conditions, requests for insurance and quotations

2.1 Groundsure agrees to provide the Services in accordance with the Contract.

2.2 Groundsure shall exercise reasonable skill and care in the provision of the Services.

2.3 Subject to clause 7.3 the Client acknowledges that it has not relied on any statement or representation made by or on behalf of Groundsure which is not set out and expressly agreed in writing in the Contract and all such statements and representations are hereby excluded to the fullest extent permitted by law.

2.4 The Client acknowledges that terms and conditions appearing on a Client's order form, printed stationery or other communication, or any terms or conditions implied by custom, practice or course of dealing shall be of no effect, and that this Contract shall prevail over all others in relation to the Order.

2.5 If the Client or Beneficiary requests insurance in conjunction with or as a result of the Services, Groundsure shall use reasonable endeavours to recommend such insurance, but makes no warranty that such insurance shall be available from insurers or that it will be offered on reasonable terms. Any insurance purchased by the Client or Beneficiary shall be subject solely to the terms of the policy issued by insurers and Groundsure will have no liability therefor. In addition you acknowledge and agree that Groundsure does not act as an agent or broker for any insurance providers. The Client should take (and ensure that the Beneficiary takes) independent advice to ensure that the insurance policy requested or offered is suitable for its requirements.

2.6 Groundsure's quotations or proposals are valid for a period of 30 days only unless an alternative period of time is explicitly stipulated by Groundsure. Groundsure reserves the right to withdraw any quotation or proposal at any time before an Order is accepted by Groundsure. Groundsure's acceptance of an Order shall be binding only when made in writing and signed by Groundsure's authorised representative or when accepted through the Order Website.

3 The Client's obligations

3.1The Client shall comply with the terms of this Contract and

(i) procure that the Beneficiary or any third party relying on the Services complies with and acts as if it is bound by the Contract and

(ii) be liable to Groundsure for the acts and omissions of the Beneficiary or any third party relying on the Services as if such acts and omissions were those of the Client.

3.2 The Client shall be solely responsible for ensuring that the Services are appropriate and suitable for its and/or the Beneficiary's needs.

3.3 The Client shall supply to Groundsure as soon as practicable and without charge all requisite information (and the Client warrants that such information is accurate, complete and appropriate), including without limitation any environmental information relating to the Site and shall give such assistance as Groundsure shall reasonably require in the provision of the Services including, without limitation, access to the Site, facilities and equipment.

3.4 Where the Client's approval or decision is required to enable Groundsure to carry out work in order to provide the Services, such approval or decision shall be given or procured in reasonable time and so as not to delay or disrupt the performance of the Services.

3.5 Save as expressly permitted by this Contract the Client shall not, and shall procure that the Beneficiary shall not, re-sell, alter, add to, or amend the Groundsure Materials, or use the Groundsure Materials in a manner for which they were not intended. The Client may make the Groundsure Materials available to a third party who is considering acquiring some or all of, or providing funding in relation to, the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.

3.6 The Client is responsible for maintaining the confidentiality of its user name and password if using the Order Website and the Client acknowledges that Groundsure accepts no liability of any kind for any loss or damage suffered by the Client as a consequence of using the Order Website.

4 Reliance

4.1The Client acknowledges that the Services provided by Groundsure consist of the presentation and analysis of Third Party Content and other content and that information obtained from a Third Party Data Provider cannot be guaranteed or warranted by Groundsure to be reliable.

4.2 In respect of Data Reports, Mapping and Risk Screening Reports, the following classes of person and no other are entitled to rely on their contents;

(i) the Beneficiary,

(ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate),

(iv) the first purchaser or first tenant of the Site, and

(v) the professional advisers and lenders of the first purchaser or tenant of the Site.

4.3 In respect of Support Services, only the Client, Beneficiary and parties expressly named in a Report and no other parties are entitled to rely on its contents.

4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise expressly agreed in writing, no other person or entity of any kind is entitled to rely on any Services or Report issued or provided by Groundsure. Any party considering such Reports and Services does so at their own risk.

5 Fees and Disbursements

5.1Groundsure shall charge and the Client shall pay fees at the rate and

frequency specified in the written proposal, Order Website or Order acknowledgement form, plus (in the case of Support Services) all proper disbursements incurred by Groundsure. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services (together "Fees").

5.2 The Client shall pay all outstanding Fees to Groundsure in full without deduction, counterclaim or set off within 30 days of the date of Groundsure's invoice or such other period as may be agreed in writing between Groundsure and the Client ("Payment Date"). Interest on late payments will accrue on a daily basis from the Payment Date until the date of payment (whether before or after judgment) at the rate of 8% per annum.

5.3 The Client shall be deemed to have agreed the amount of any invoice unless an objection is made in writing within 28 days of the date of the invoice. As soon as reasonably practicable after being notified of an objection, without prejudice to clause 5.2 a member of Groundsure's management team will contact the Client and the parties shall then use all reasonable endeavours to resolve the dispute within 15 days.

6 Intellectual Property and Confidentiality

6.1 Subject to

(i) full payment of all relevant Fees and

(ii) compliance with this Contract, the Client is granted (and is permitted to sub-licence to the Beneficiary) a royalty-free, worldwide, non-assignable and (save to the extent set out in this Contract) non-transferable licence to make use of the Groundsure Materials.

6.2 All Intellectual Property in the Groundsure Materials are and shall remain owned by Groundsure or Groundsure's licensors (including without limitation the Third Party Data Providers) the Client acknowledges, and shall procure acknowledgement by the Beneficiary of, such ownership. Nothing in this Contract purports to transfer or assign any rights to the Client or the Beneficiary in respect of such Intellectual Property.

6.3 Third Party Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.

6.4 The Client shall, and shall procure that any recipients of the Groundsure Materials shall:

(i) not remove, suppress or modify any trade mark, copyright or other proprietary marking belonging to Groundsure or any third party from the Services;

(ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;

(iii) not create any product or report which is derived directly or indirectly from the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);

(iv) not combine the Services with or incorporate such Services into any other information data or service;

(v) not reformat or otherwise change (whether by modification, addition or enhancement), the Services (save that those acting for the Beneficiary in a professional capacity shall not be in breach of this clause 6.4(v) where such reformatting is in the normal course of providing advice based upon the Services);

(vi) where a Report and/or Mapping contains material belonging to Ordnance Survey, acknowledge and agree that such content is protected by Crown Copyright and shall not use such content for any purpose outside of receiving the Services; and

(vii) not copy in whole or in part by any means any map prints or run-on copies containing content belonging to Ordnance Survey (other than that contained within Ordnance Survey's OS Street Map) without first being in possession of a valid Paper Map Copying Licence from Ordnance Survey,

6.5 Notwithstanding clause 6.4, the Client may make reasonable use of the Groundsure Materials in order to advise the Beneficiary in a professional capacity. However, Groundsure shall have no liability in respect of any advice, opinion or report given or provided to Beneficiaries by the Client.

6.6 The Client shall procure that any person to whom the Services are made available shall notify Groundsure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

7.Liability: Particular Attention Should Be Paid To This Clause

7.1 This Clause 7 sets out the entire liability of Groundsure, including any liability for the acts or omissions of its employees, agents, consultants, subcontractors and Third Party Content, in respect of:

(i) any breach of contract, including any deliberate breach of the Contract by Groundsure or its employees, agents or subcontractors;

(ii) any use made of the Reports, Services, Materials or any part of them; and

(iii) any representation, statement or tortious act or omission (including negligence) arising under or in connection with the Contract.

7.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

7.3 Nothing in the Contract limits or excludes the liability of the Supplier for death or personal injury resulting from negligence, or for any damage or liability incurred by the Client or Beneficiary as a result of fraud or fraudulent misrepresentation.

7.4 Groundsure shall not be liable for

(i) loss of profits;

(ii) loss of business;

(iii) depletion of goodwill and/or similar losses;

(iv) loss of anticipated savings;

(v) loss of goods;

(vi) loss of contract;

(vii) loss of use;

(viii) loss or corruption of data or information;

(ix) business interruption;

(x) any kind of special, indirect, consequential or pure economic loss, costs, damages, charges or expenses;

(xi) loss or damage that arise as a result of the use of all or part of the Groundsure Materials in breach of the Contract;

(xii) loss or damage arising as a result of any error, omission or inaccuracy in any part of the Groundsure Materials where such error, omission or inaccuracy is caused by any Third Party Content or any reasonable interpretation of Third Party Content;

(xiii) loss or damage to a computer, software, modem, telephone or other property; and

(xiv) loss or damage caused by a delay or loss of use of Groundsure's internet ordering service.

7.5 Groundsure's total liability in relation to or under the Contract shall be limited to £10 million for any claim or claims.

7.6 Groundsure shall procure that the Beneficiary shall be bound by limitations and exclusions of liability in favour of Groundsure which accord with those detailed in clauses 7.4 and 7.5 (subject to clause 7.3) in respect of all claims which the Beneficiary may bring against Groundsure in relation to the Services or other matters arising pursuant to the Contract.

8 Groundsure's right to suspend or terminate

8.1 If Groundsure reasonably believes that the Client or Beneficiary has not provided the information or assistance required to enable the proper provision of the Services, Groundsure shall be entitled to suspend all further performance of the Services until such time as any such deficiency has been made good.

8.2 Groundsure shall be entitled to terminate the Contract immediately on written notice in the event that:

(i) the Client fails to pay any sum due to Groundsure within 30 days of the Payment Date; or

(ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an administration order made against it or if a receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or

(iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or

(iv) the Client or the Beneficiary breaches any term of the Contract (including, but not limited to, the obligations in clause 4) which is incapable of remedy or if remediable, is not remedied within five days of notice of the breach.

9. Client's Right to Terminate and Suspend

9.1 Subject to clause 10.1, the Client may at any time upon written notice terminate or suspend the provision of all or any of the Services.

9.2 In any event, where the Client is a consumer (and not a business) he/she hereby expressly acknowledges and agrees that:

(i) the supply of Services under this Contract (and therefore the performance of this Contract) commences immediately upon Groundsure's acceptance of the Order; and

(ii) the Reports and/or Mapping provided under this Contract are

(a) supplied to the Client's specification(s) and in any event

(b) by their nature cannot be returned.

10 Consequences of Withdrawal, Termination or Suspension

10.1 Upon termination of the Contract:

(i) Groundsure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client and/or Beneficiary any property of the Client and/or Beneficiary in Groundsure's possession or control; and

(ii) the Client shall pay to Groundsure all and any Fees payable in respect of the performance of the Services up to the date of termination or suspension. In respect of any Support Services provided, the Client shall also pay Groundsure any additional costs incurred in relation to the termination or suspension of the Contract.

11 Anti-Bribery

11.1 The Client warrants that it shall:

(i) comply with all applicable laws, statutes and regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;

(ii) comply with such of Groundsure's anti-bribery and anti-corruption policies as are notified to the Client from time to time; and

(iii) promptly report to Groundsure any request or demand for any undue financial or other advantage of any kind received by or on behalf of the Client in connection with the performance of this Contract.

11.2 Breach of this Clause 11 shall be deemed a material breach of this Contract.

12 General

12.1 The Mapping contained in the Services is protected by Crown copyright and must not be used for any purpose other than as part of the Services or as specifically provided in the Contract.

12.2 The Client shall be permitted to make one copy only of each Report or Mapping Order. Thereafter the Client shall be entitled to make unlimited copies of the Report or Mapping Order only in accordance with an Ordnance Survey paper map copy license available through Groundsure.

12.3 Groundsure reserves the right to amend or vary this Contract. No amendment or variation to this Contract shall be valid unless signed by an authorised representative of Groundsure.

12.4 No failure on the part of Groundsure to exercise, and no delay in exercising, any right, power or provision under this Contract shall operate as a waiver thereof.

12.5 Save as expressly provided in this Contract, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.

12.6 The Secretary of State for Business, Innovation and Skills ("BIS") or BIS' successor body, as the case may be, acting through Ordnance Survey may enforce a breach of clause 6.4(vi) and clause 6.4(vii) of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.

12.7 Groundsure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:

(i) the Client or Beneficiary's failure to provide facilities, access or information;

(ii) fire, storm, flood, tempest or epidemic;

(iii) Acts of God or the public enemy;

(iv) riot, civil commotion or war;

(v) strikes, labour disputes or industrial action;

(vi) acts or regulations of any governmental or other agency;

(vii) suspension or delay of services at public registries by Third Party Data Providers;

(viii) changes in law; or

(ix) any other reason beyond Groundsure's reasonable control.

In the event that Groundsure is prevented from performing the Services (or any part thereof) in accordance with this clause 12.6 for a period of not less than 30 days then Groundsure shall be entitled to terminate this Contract immediately on written notice to the Client.

12.8 Any notice provided shall be in writing and shall be deemed to be properly given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

12.9 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email (save to the extent such day is not a working day where it shall be deemed to have been delivered on the next working day) and on the second working day after the day of posting if sent by first class post.

12.10 The Contract constitutes the entire agreement between the parties and shall supersede all previous arrangements between the parties relating to the subject matter hereof.

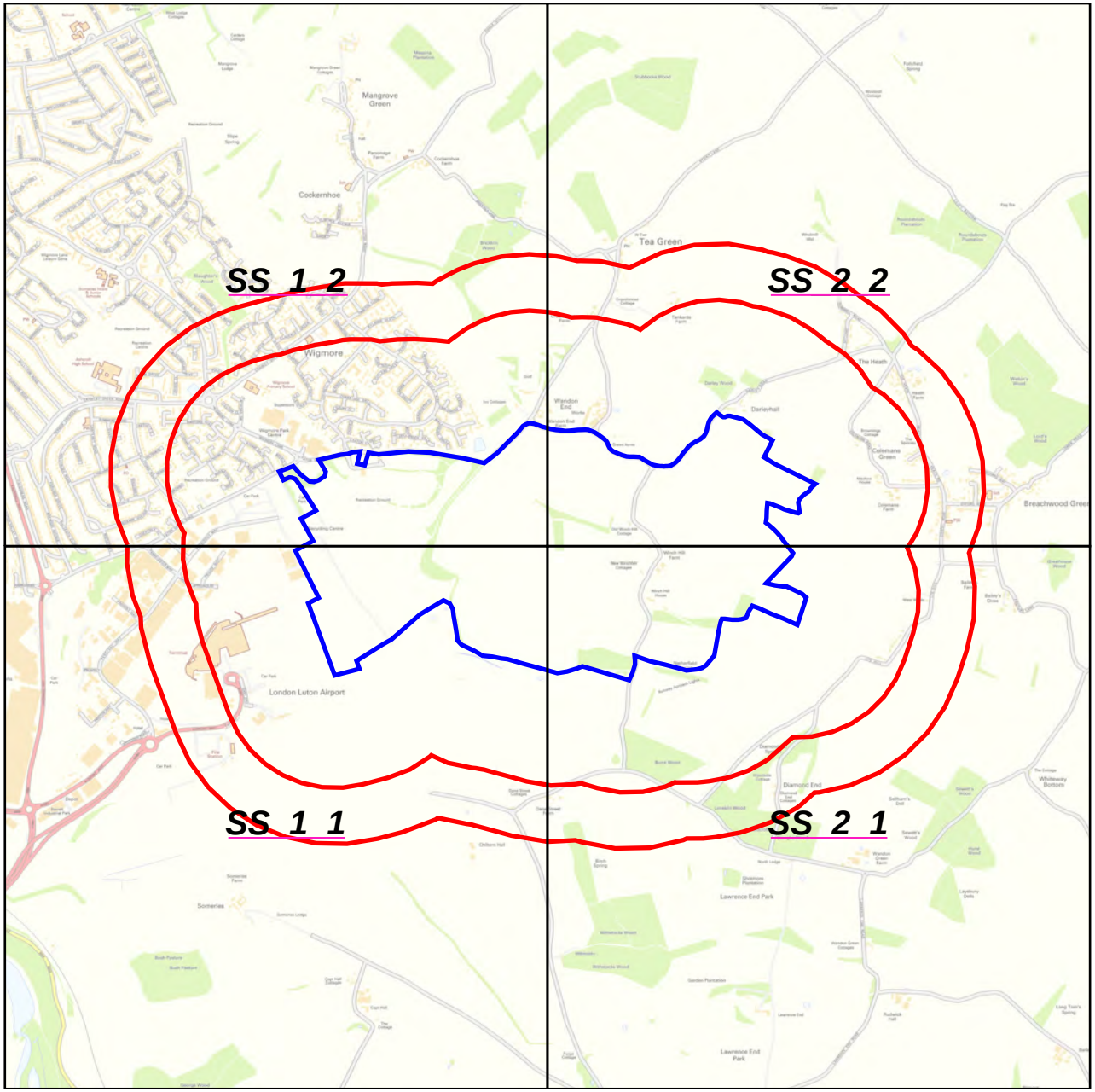
12.11 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

12.12 This Contract shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with this Contract shall be subject to the exclusive jurisdiction of the English courts.

12.13 Groundsure is an executive member of the Council of Property Search Organisation (CoPSO) and has signed up to the Search Code administered by the Property Codes Compliance Board (PCCB). All Risk Screening Reports shall be supplied in accordance with the provisions of the Search Code.

12.14 If the Client or Beneficiary has a complaint about the Services, written notice should be given to the Compliance Officer at Groundsure who will respond in a timely manner. In the event you are not satisfied with Groundsure's complaints handling process or you are unable to resolve the complaint, at your discretion you may refer the complaint to The Property Ombudsman Scheme at the following URL/email: website www.tpos.co.uk or email: admin@tpos.co.uk

12.15 The Client agrees that it shall, and shall procure that each Beneficiary shall, treat in confidence all Confidential Information and shall not, and shall procure that each Beneficiary shall not (i) disclose any Confidential Information to any third party other than in accordance with the terms of this Contract; and (ii) use Confidential Information for a purpose other than the exercise of its rights and obligations under this Contract. Subject to clause 6.6, nothing shall prevent the Client or any Beneficiary from disclosing Confidential Information to the extent required by law. **© Groundsure Limited June 2013**



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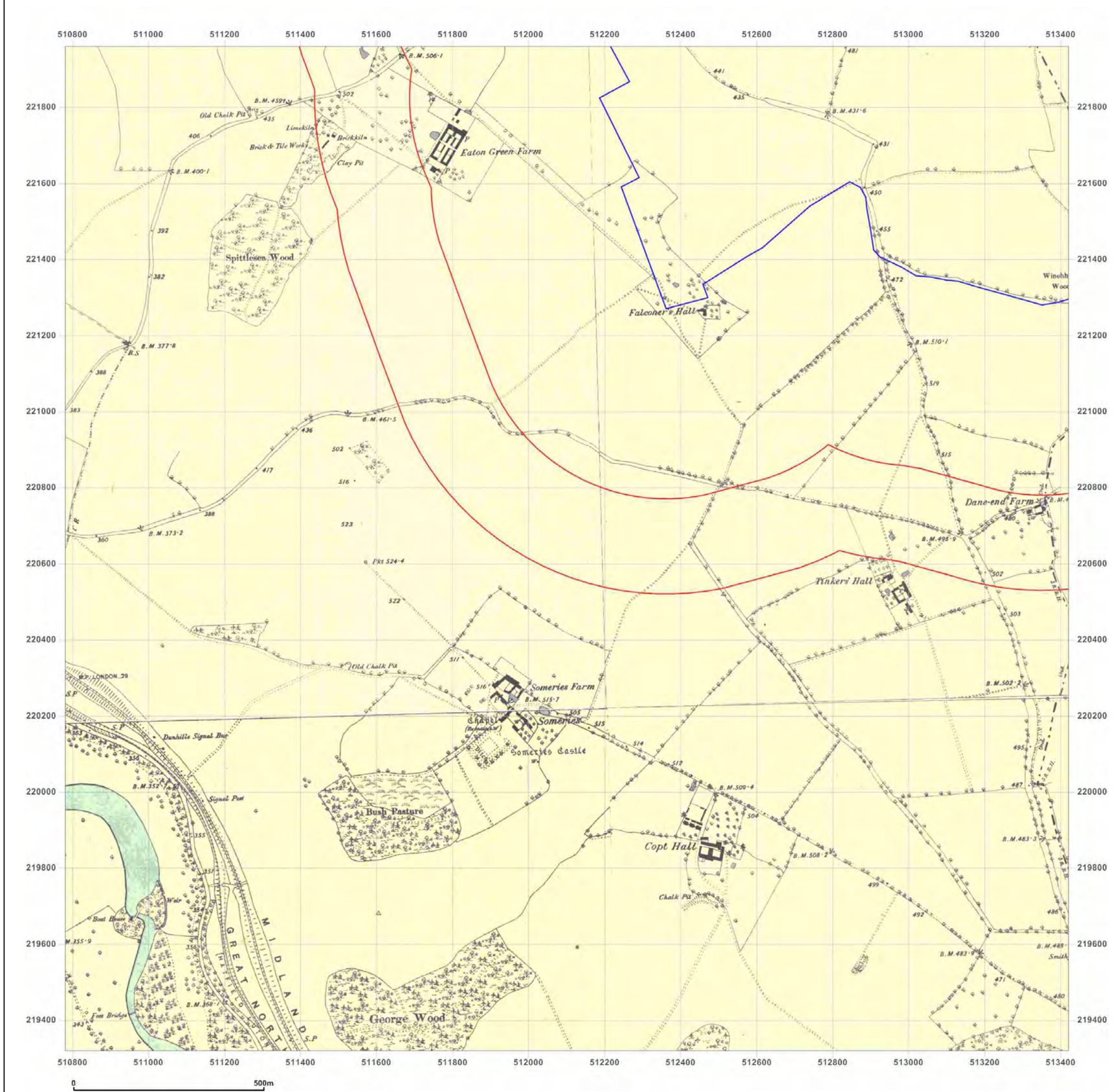
Small Scale Grid Index



Groundsure INSIGHTS

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_1
Grid Ref: 512100, 220639

Map Name: County Series

Map date: **1879**

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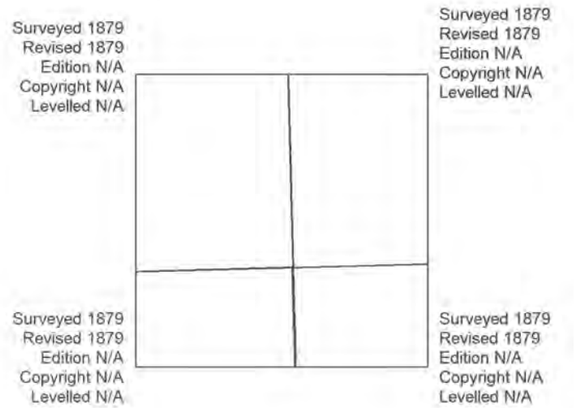

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Production date: 16 October 2018

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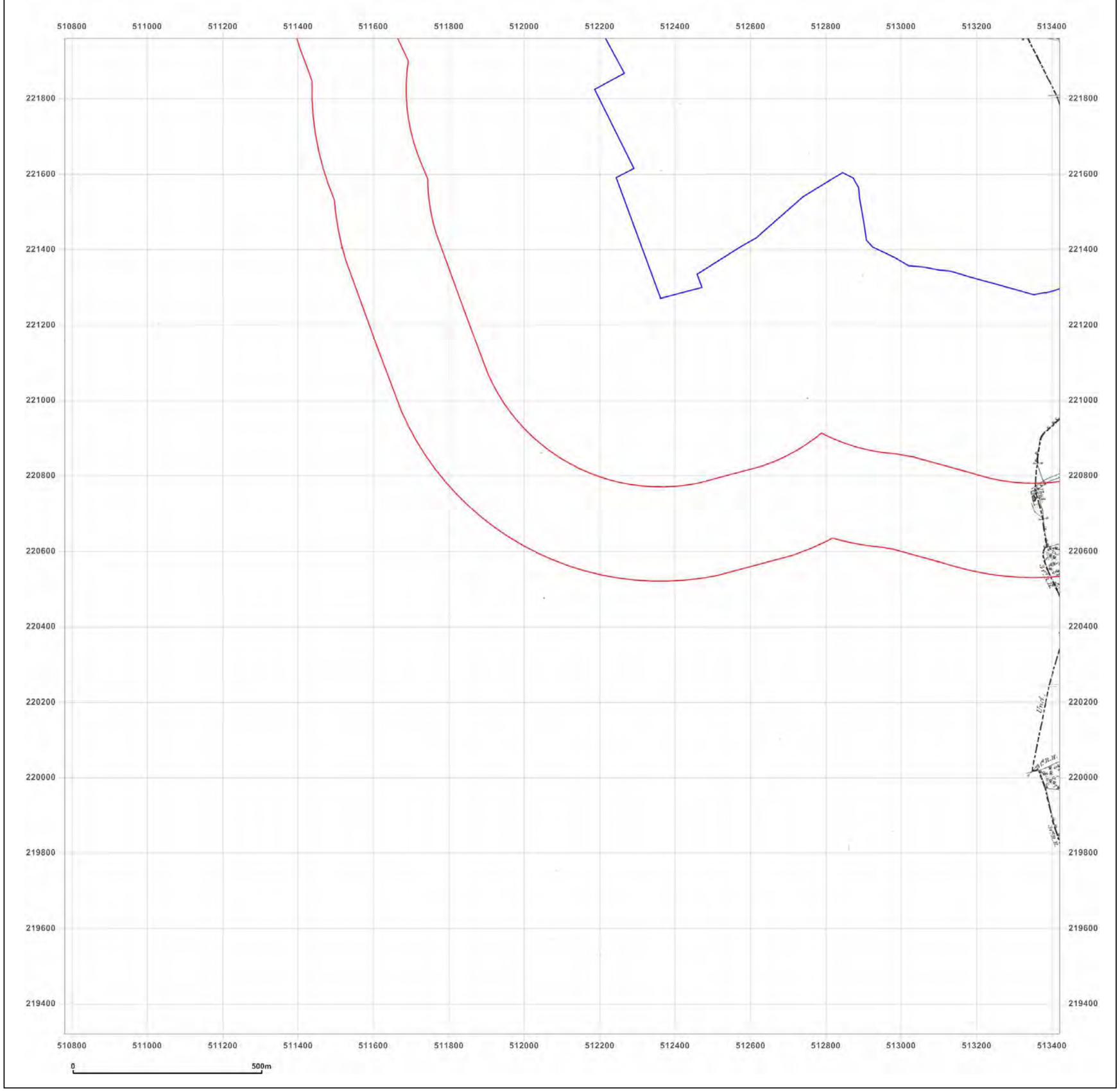

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Grid Ref: 512100, 220639

Map Name: County Series

Map date: **1884**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1881
Revised N/A
Edition 1884
Copyright N/A
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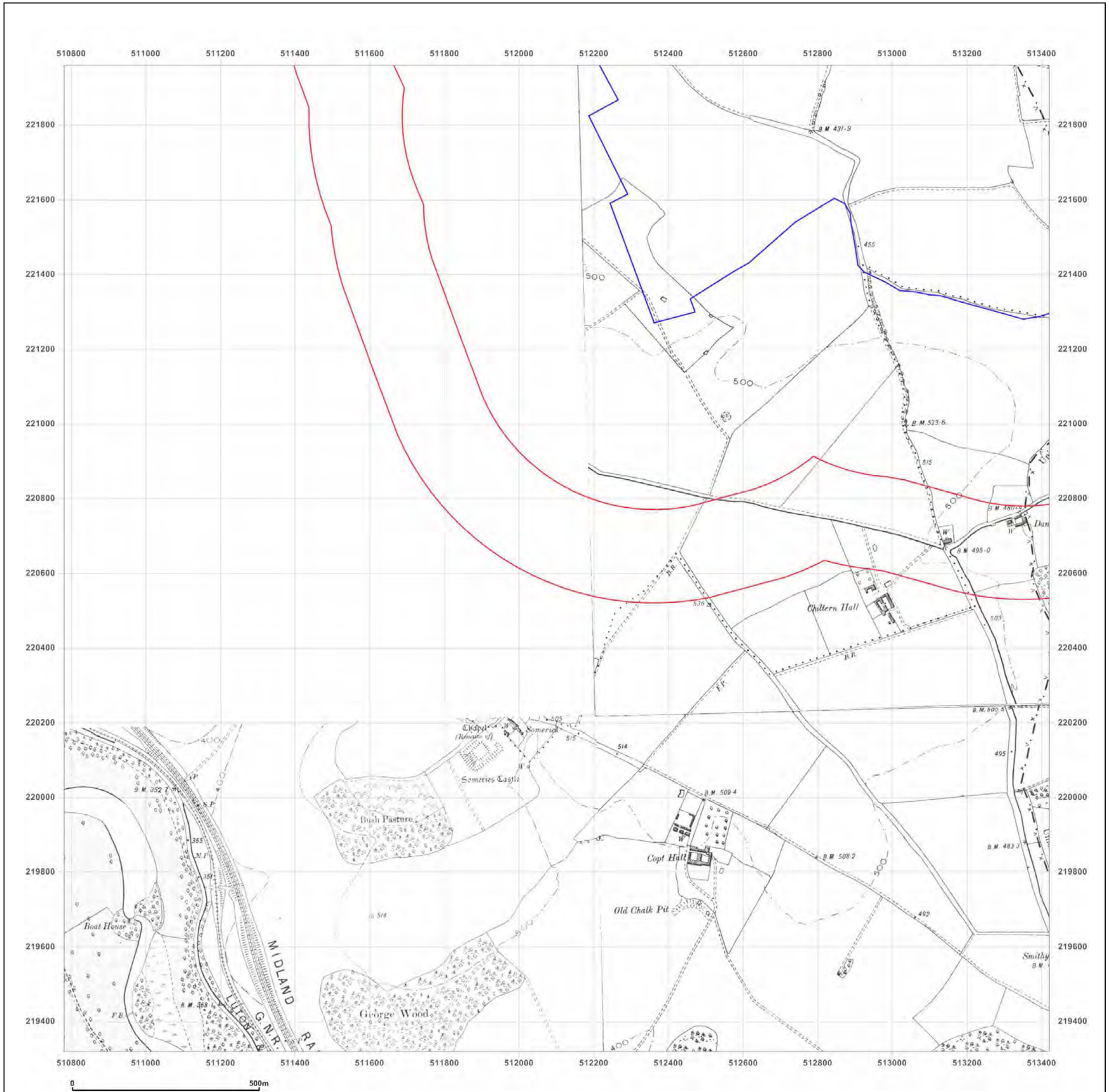

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Report Ref: GS-5534634_SS_1_1
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Map Name: County Series

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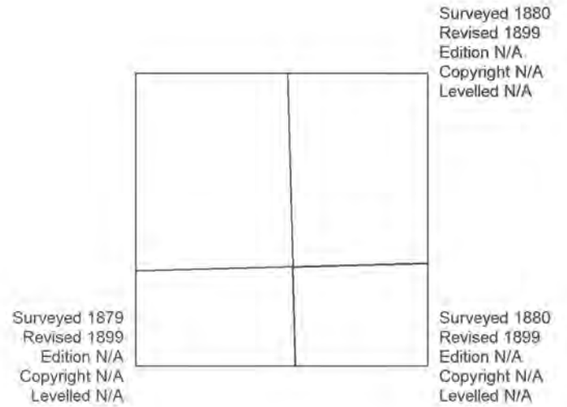

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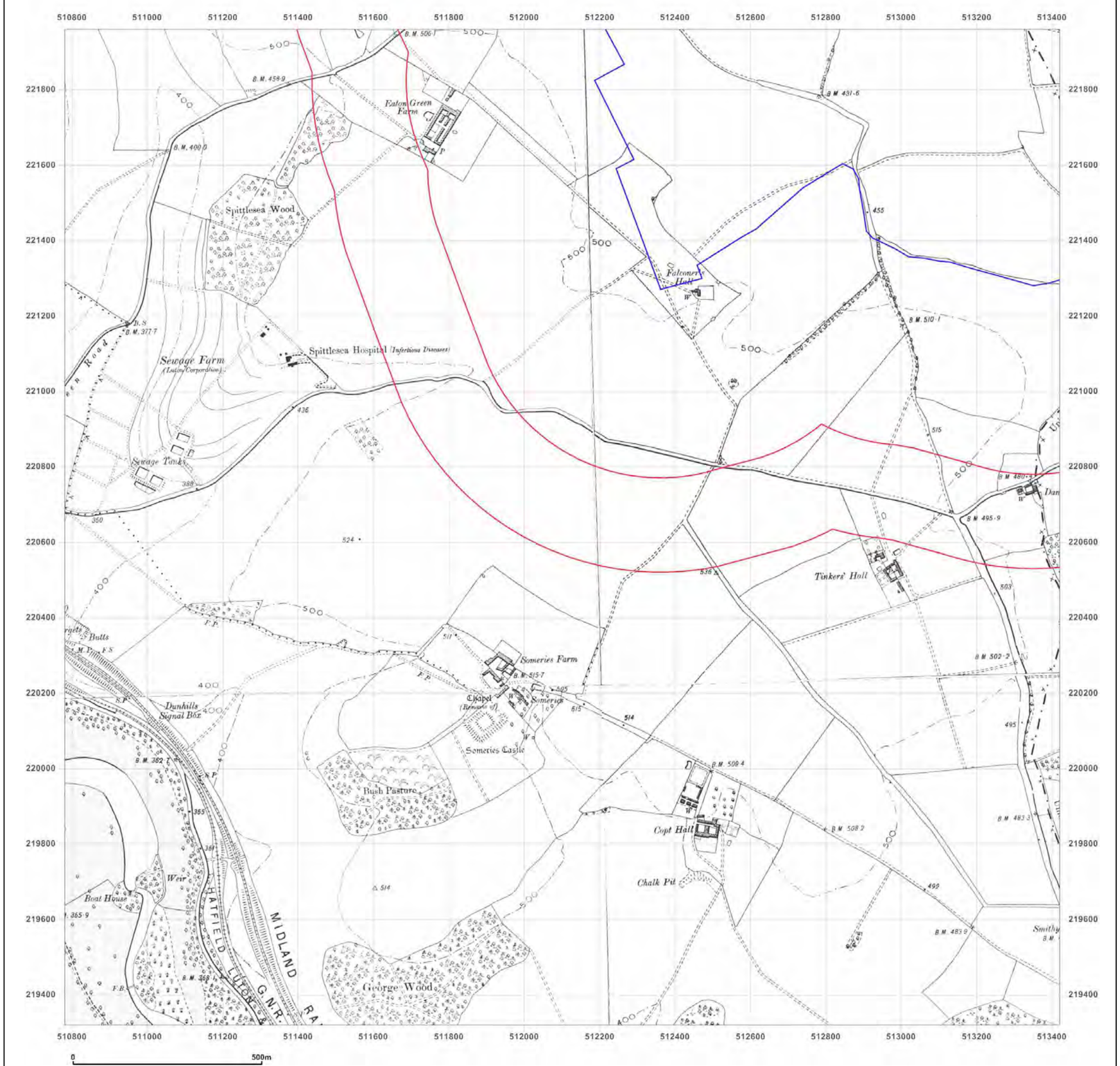

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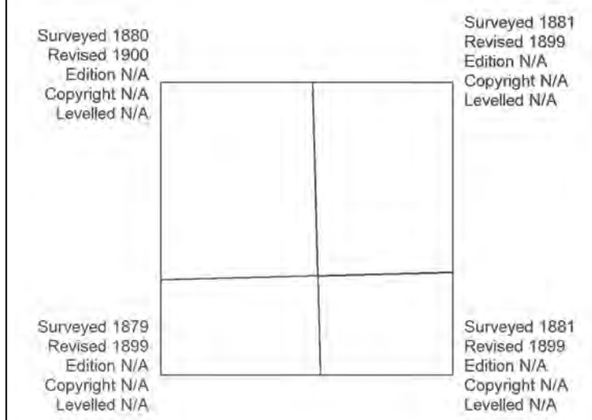

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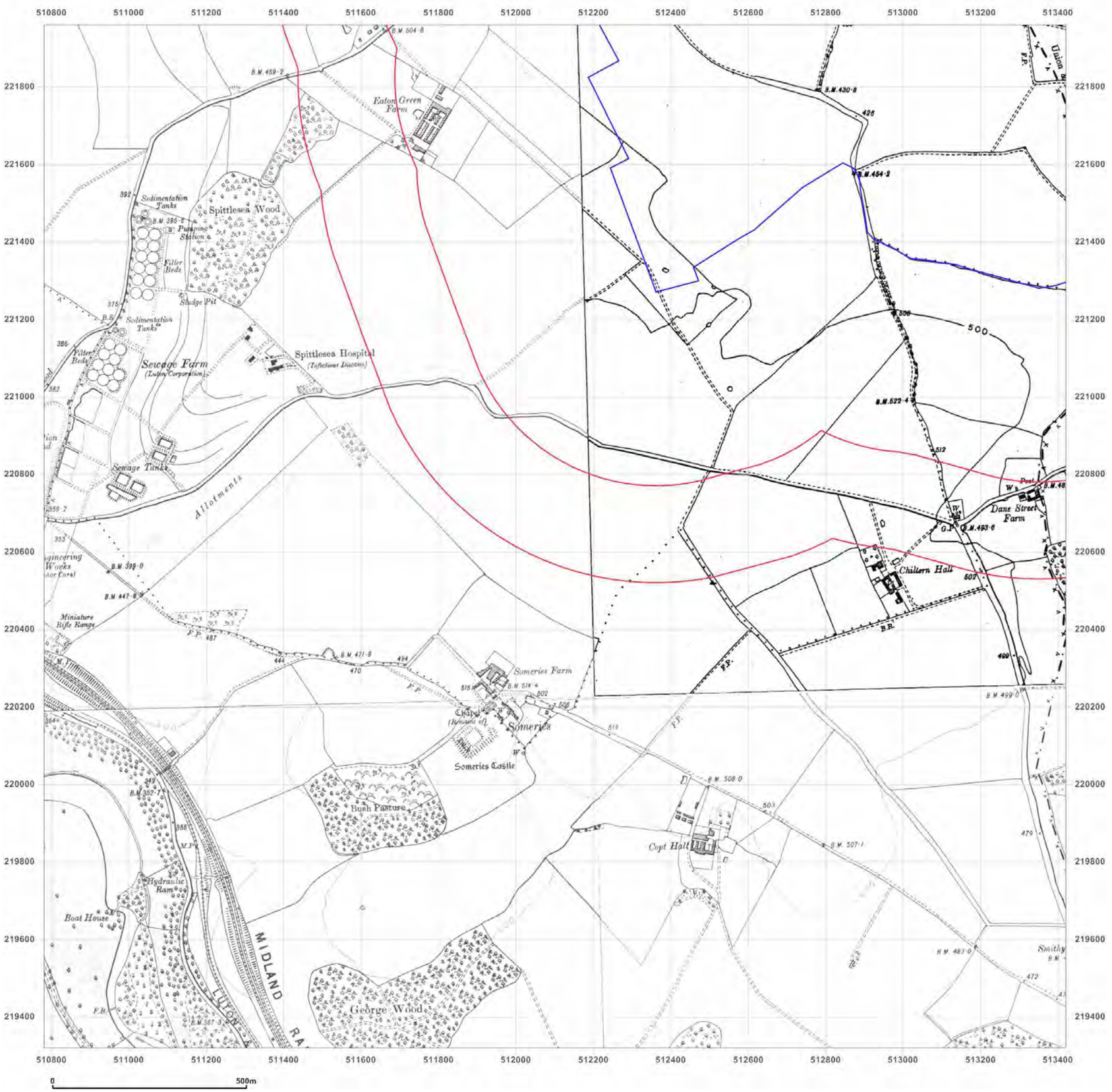

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Grid Ref: 512100, 220639

Map Name: County Series

Map date: **1922-1925**

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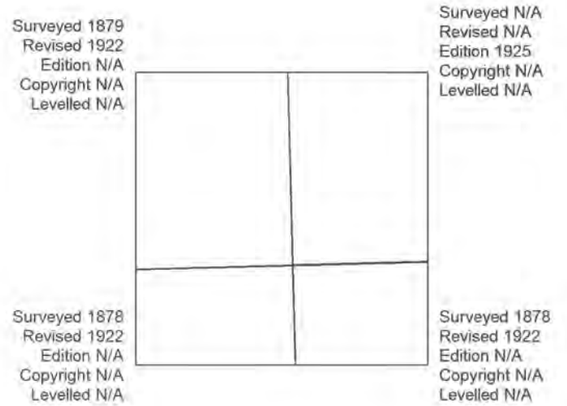

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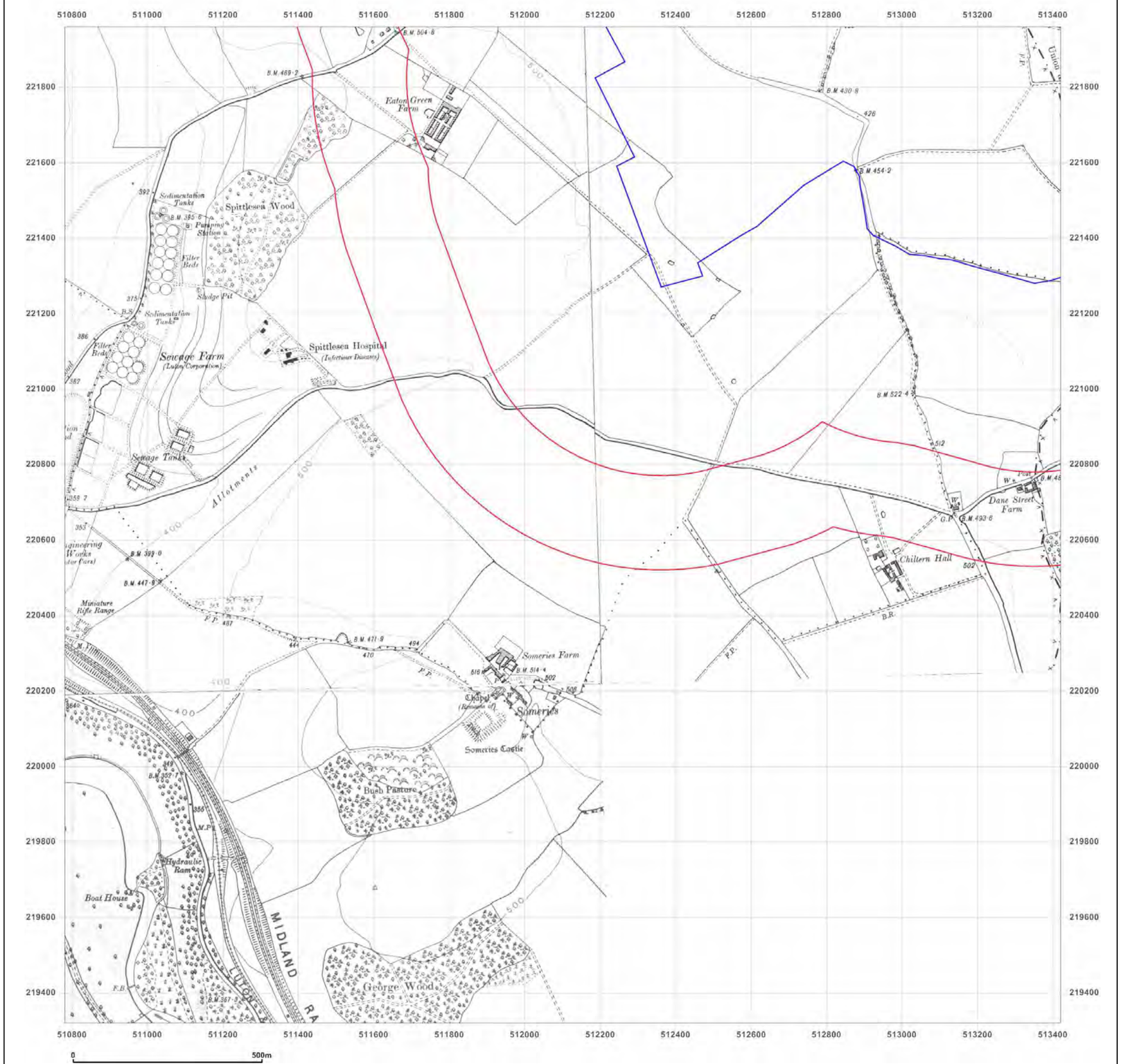

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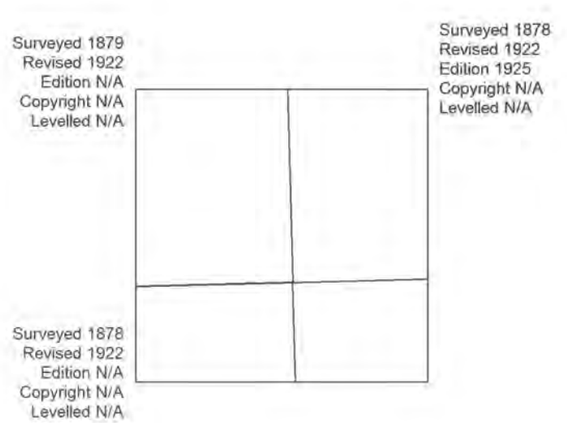

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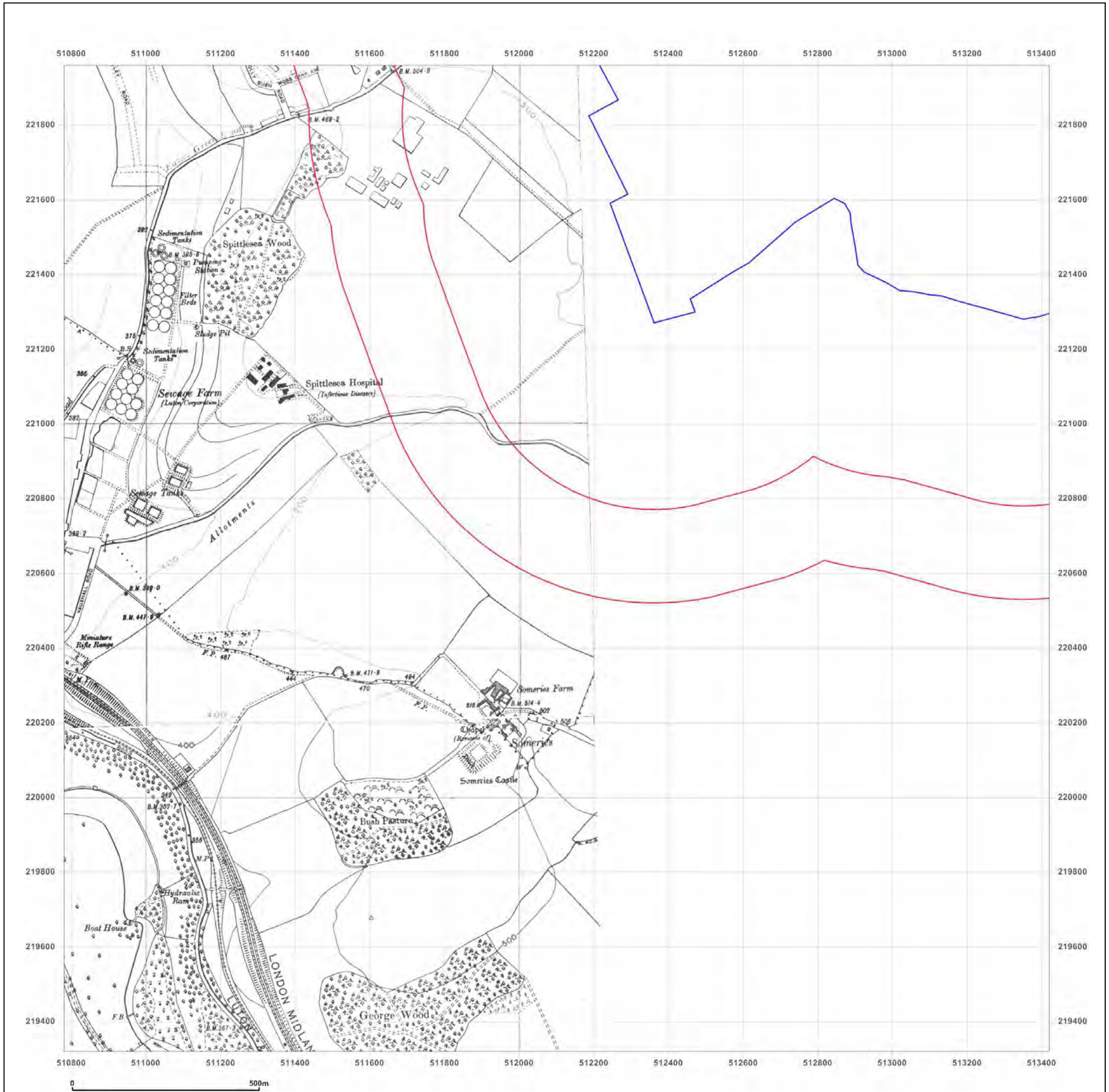

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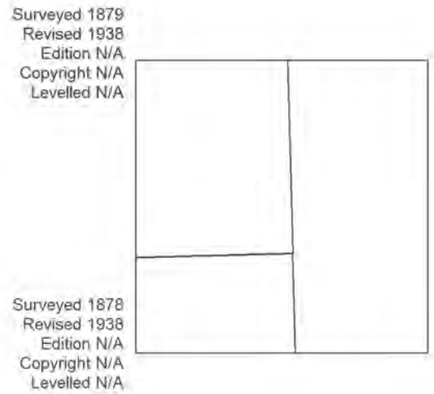

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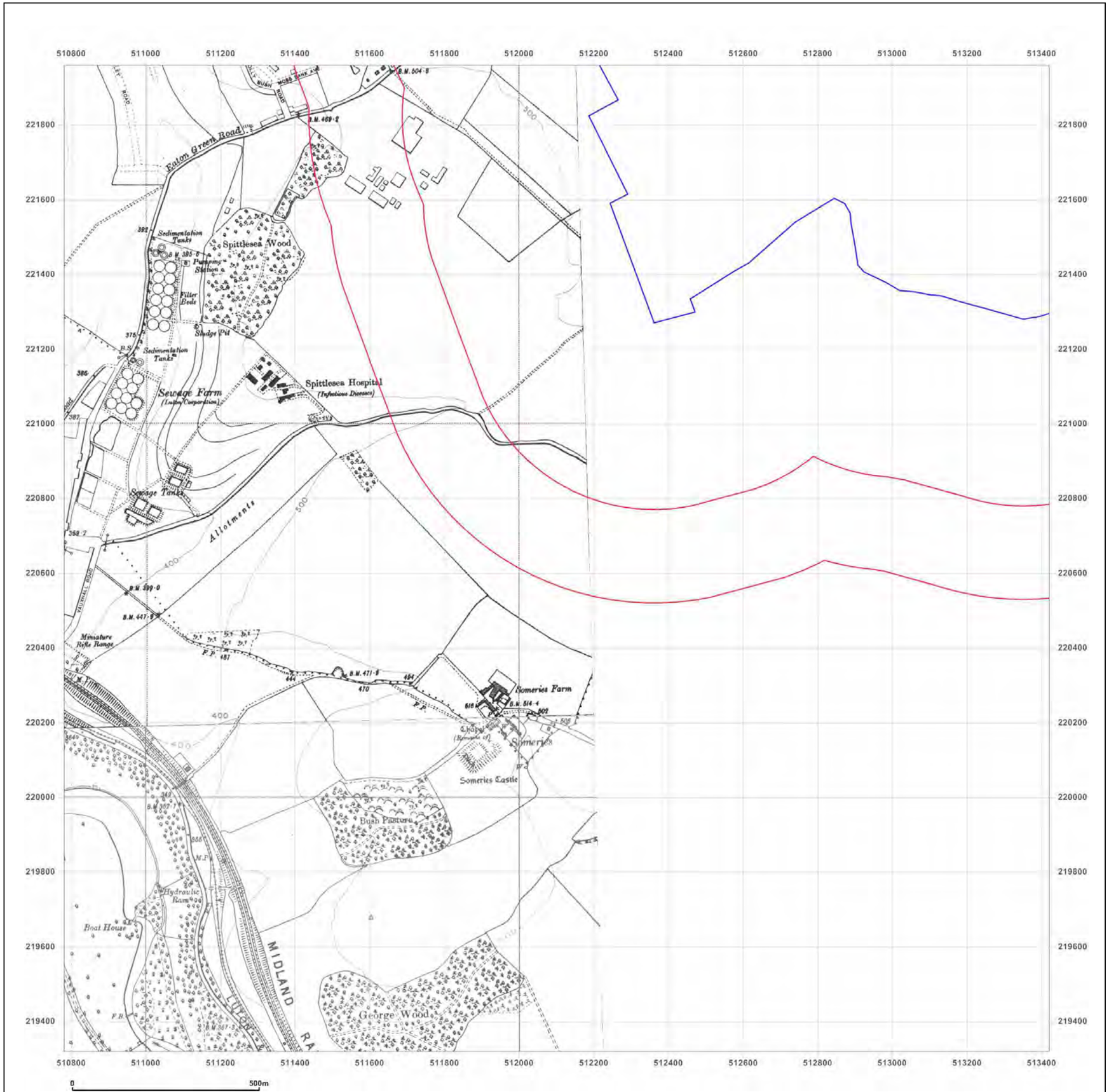

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Grid Ref: 512100, 220639

Map Name: County Series
Map date: **1938**
Scale: 1:10,560
Printed at: 1:10,560

N
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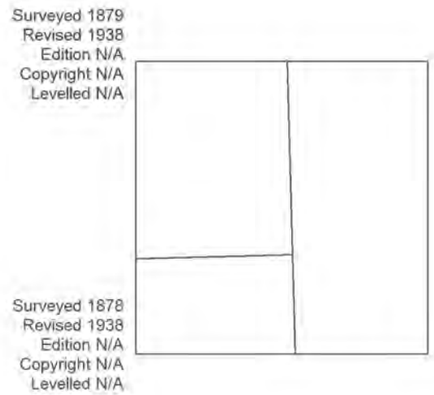

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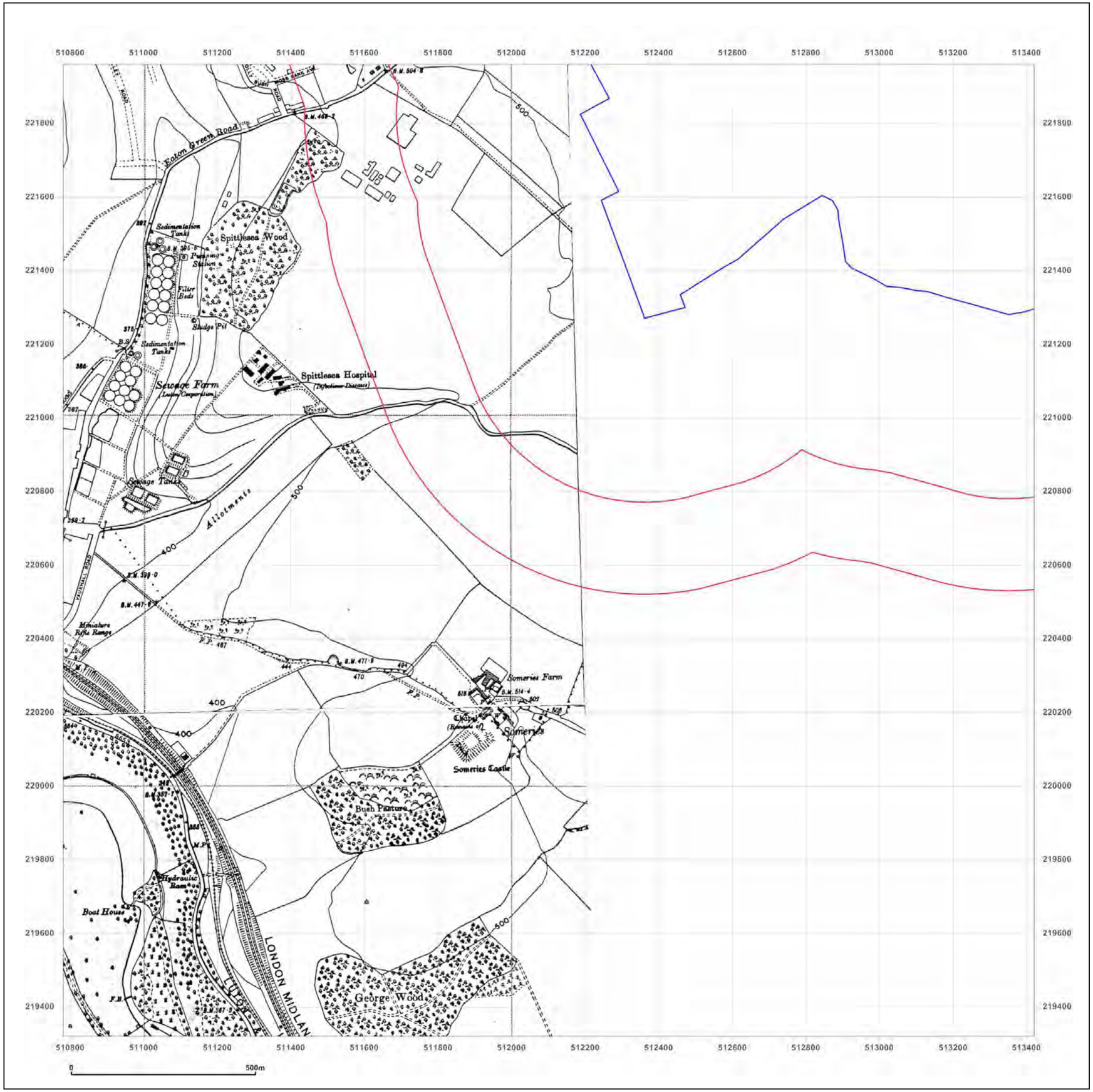

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_1
Grid Ref: 512100, 220639

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
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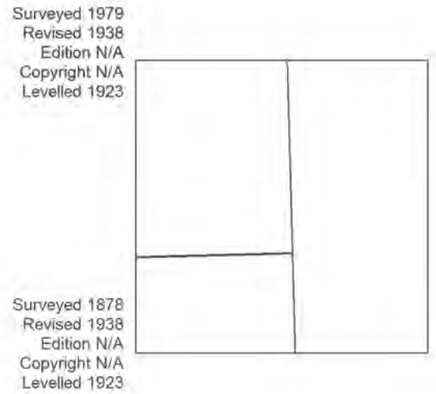

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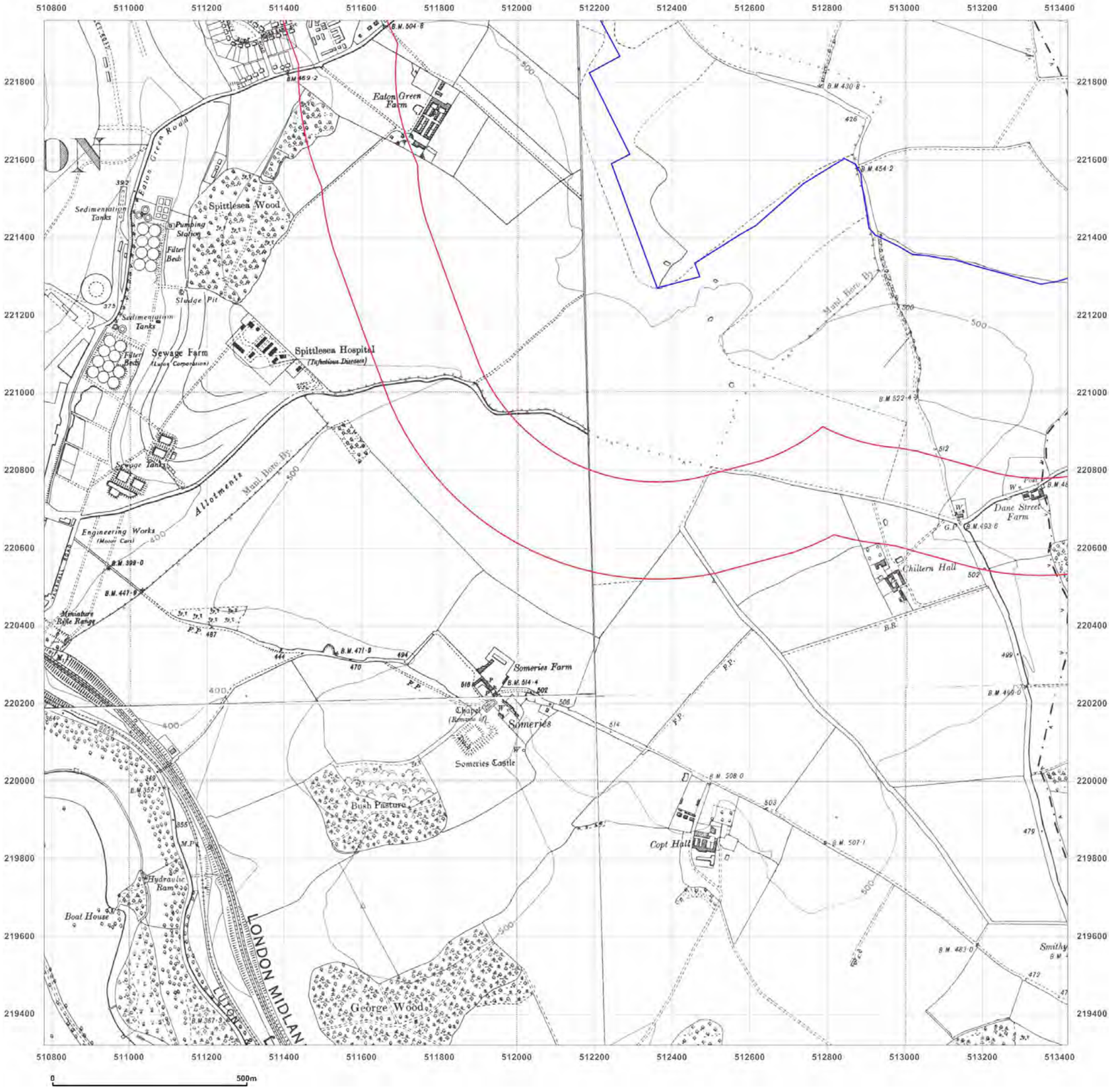

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_1
Grid Ref: 512100, 220639

Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

N
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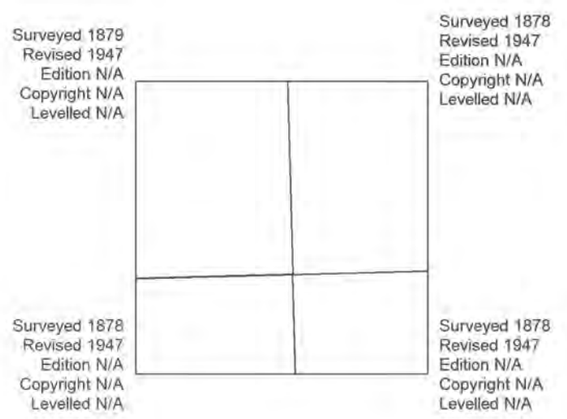

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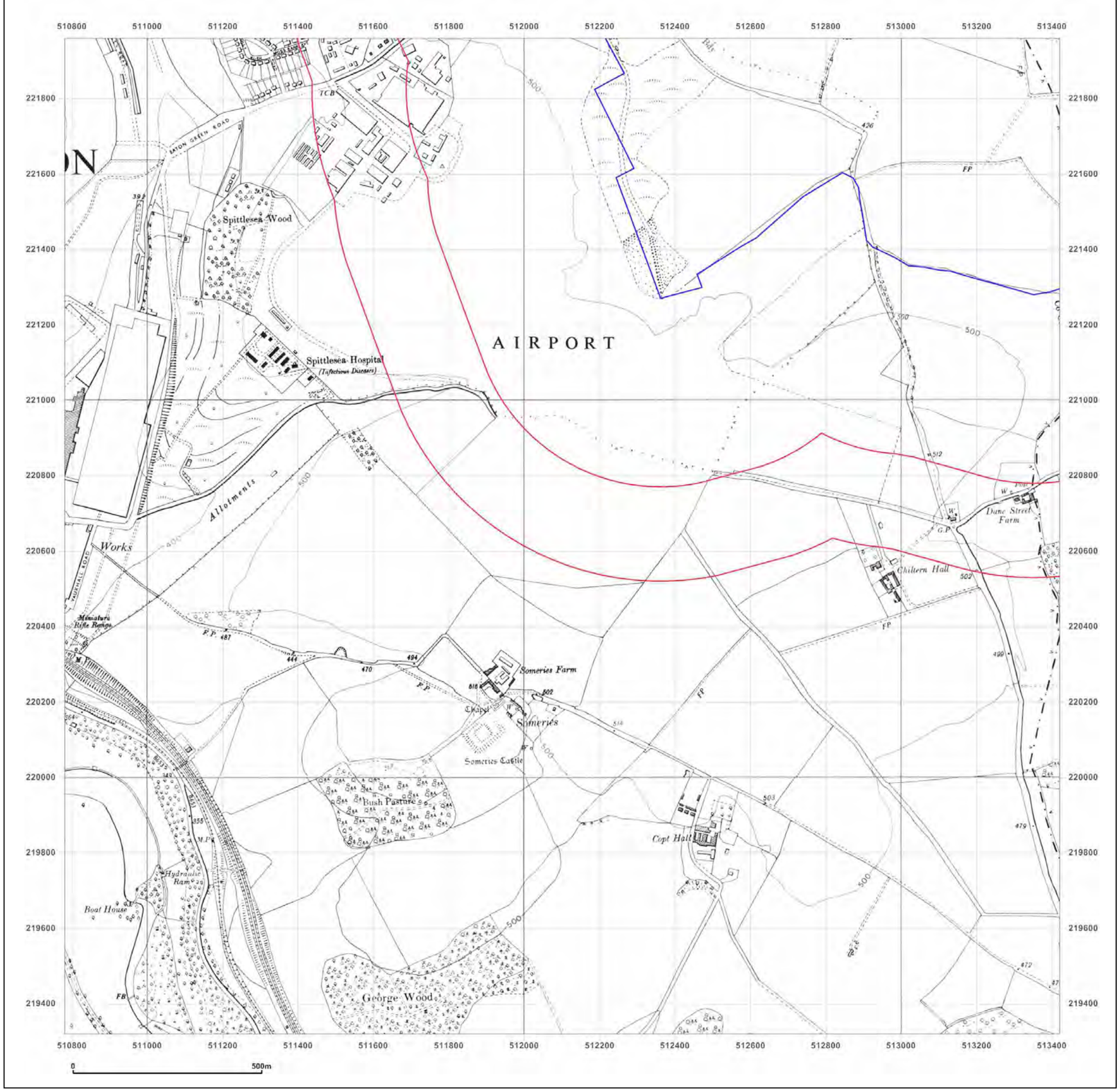

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_1
Grid Ref: 512100, 220639

Map Name: Provisional

Map date: **1960**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

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Production date: 16 October 2018

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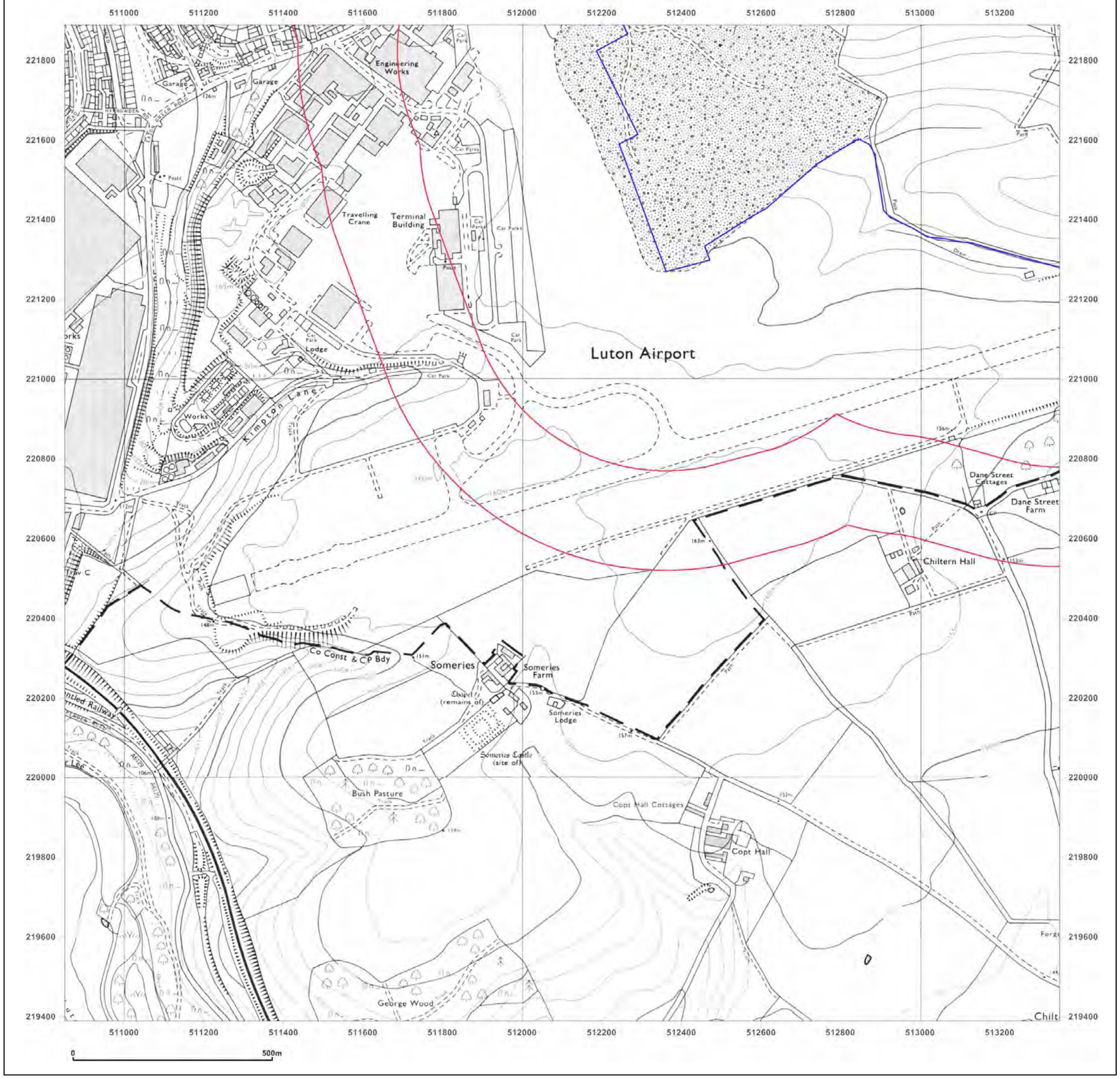

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_1
Grid Ref: 512100, 220639

Map Name: National Grid

Map date: **1974-1975**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1973
Revised 1975
Edition N/A
Copyright 1975
Levelled 1973

Surveyed 1972
Revised 1974
Edition N/A
Copyright 1974
Levelled 1973

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Production date: 16 October 2018

Map legend available at:
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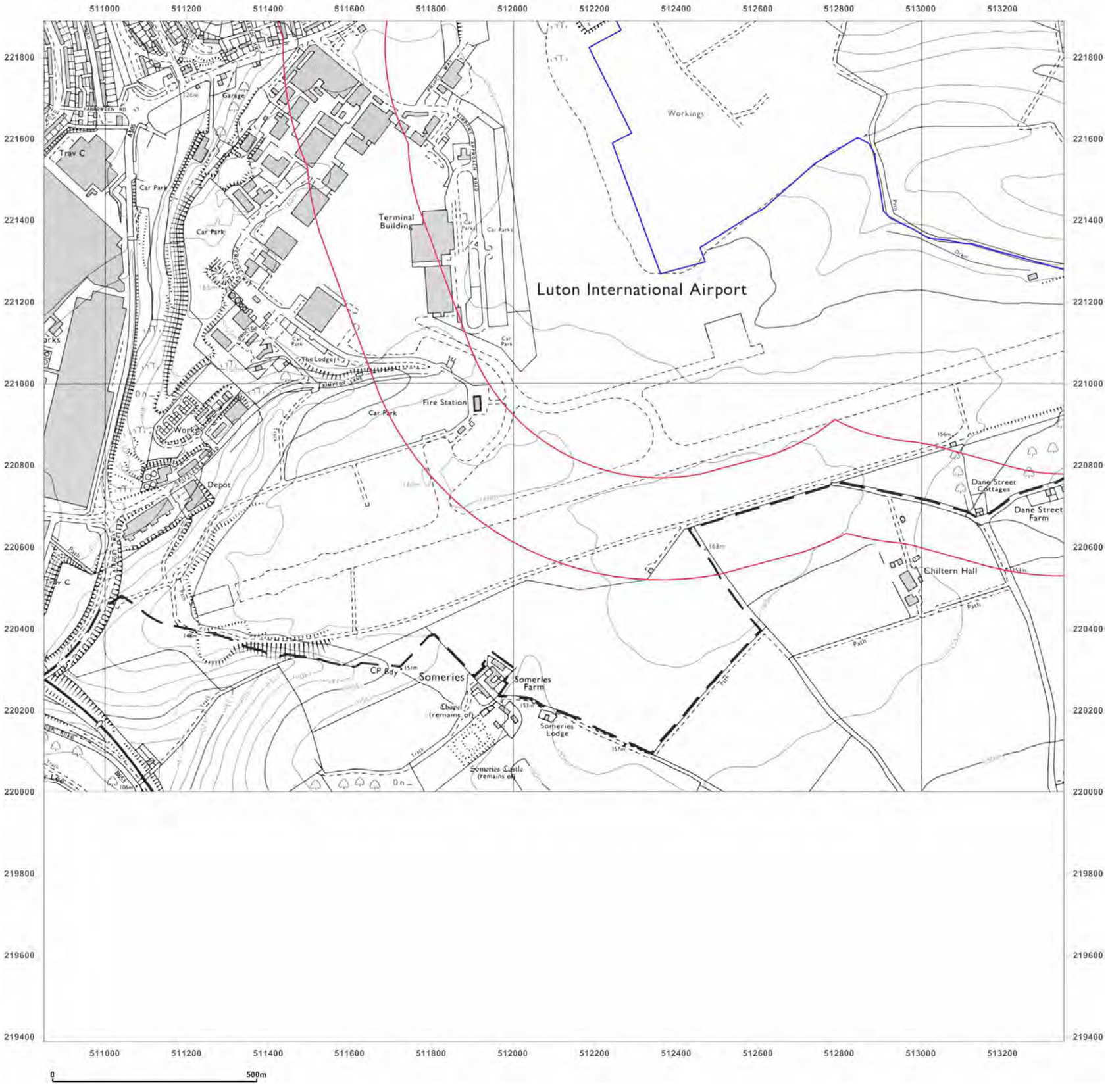

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_1
Grid Ref: 512100, 220639

Map Name: National Grid

Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

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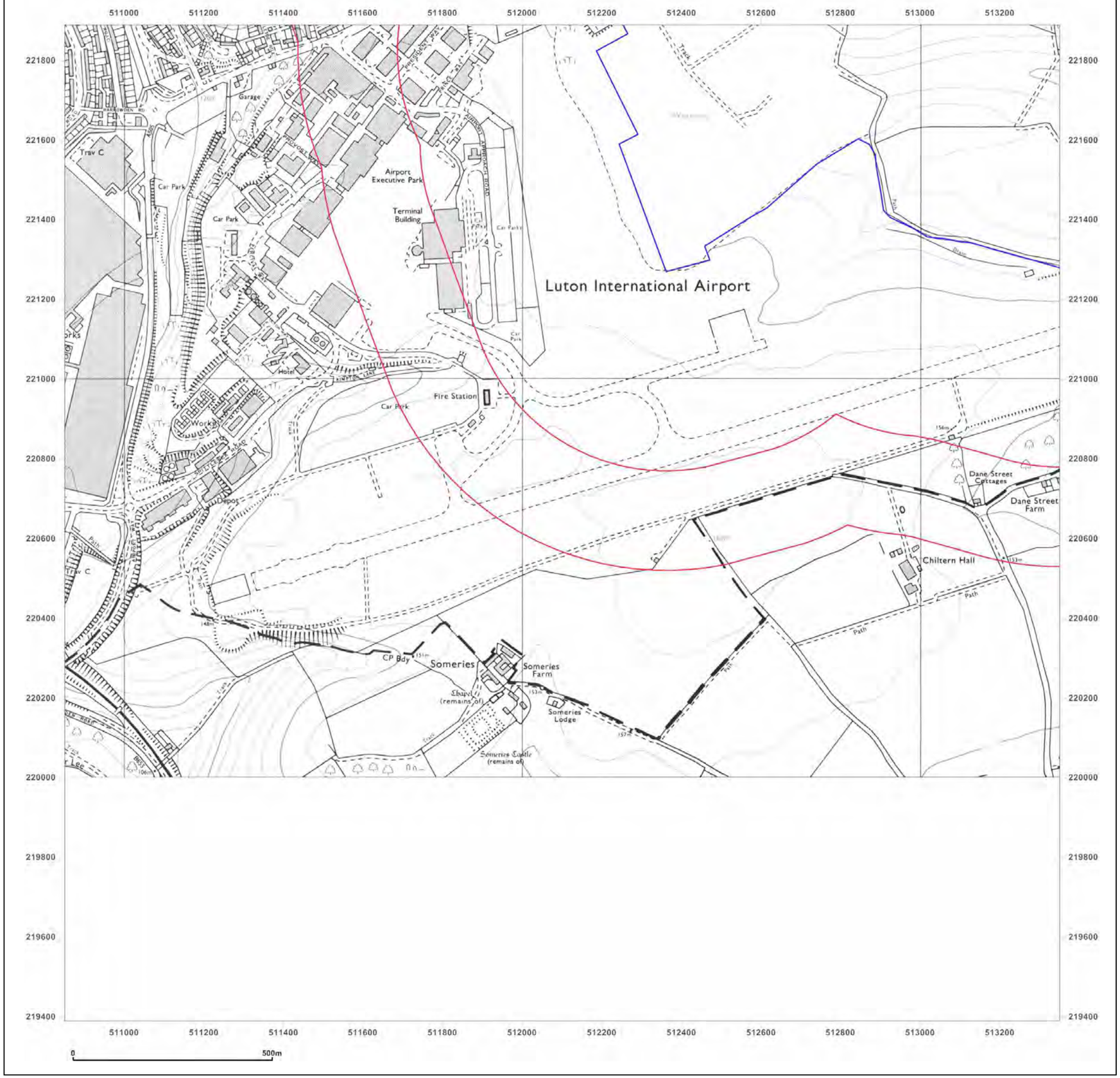

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_1
Grid Ref: 512100, 220639

Map Name: National Grid

Map date: **1991**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

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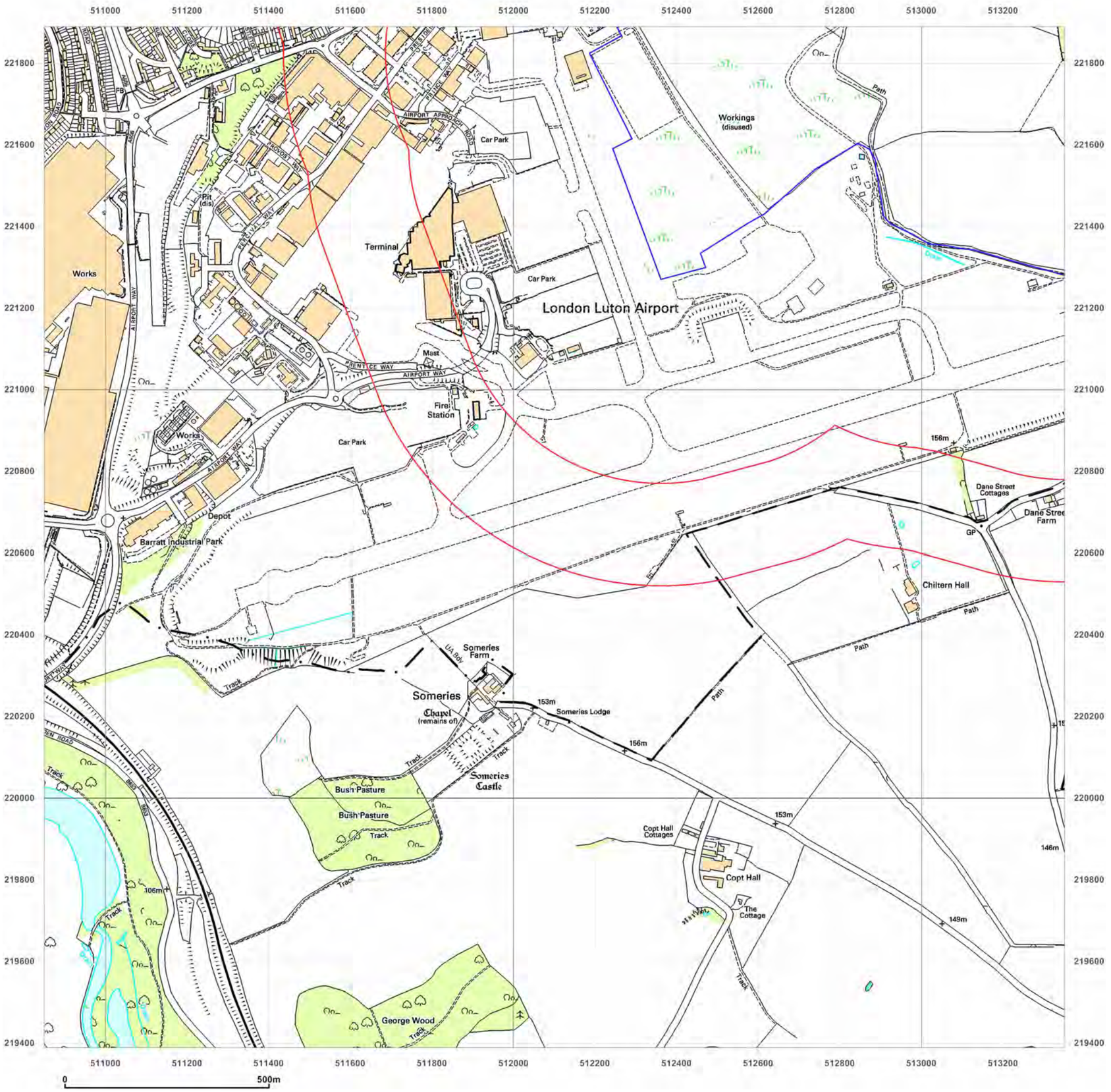

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_1
Grid Ref: 512100, 220639

Map Name: 1:10,000 Raster

Map date: **2002**

Scale: 1:10,000

Printed at: 1:10,000

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_1
Grid Ref: 512100, 220639

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

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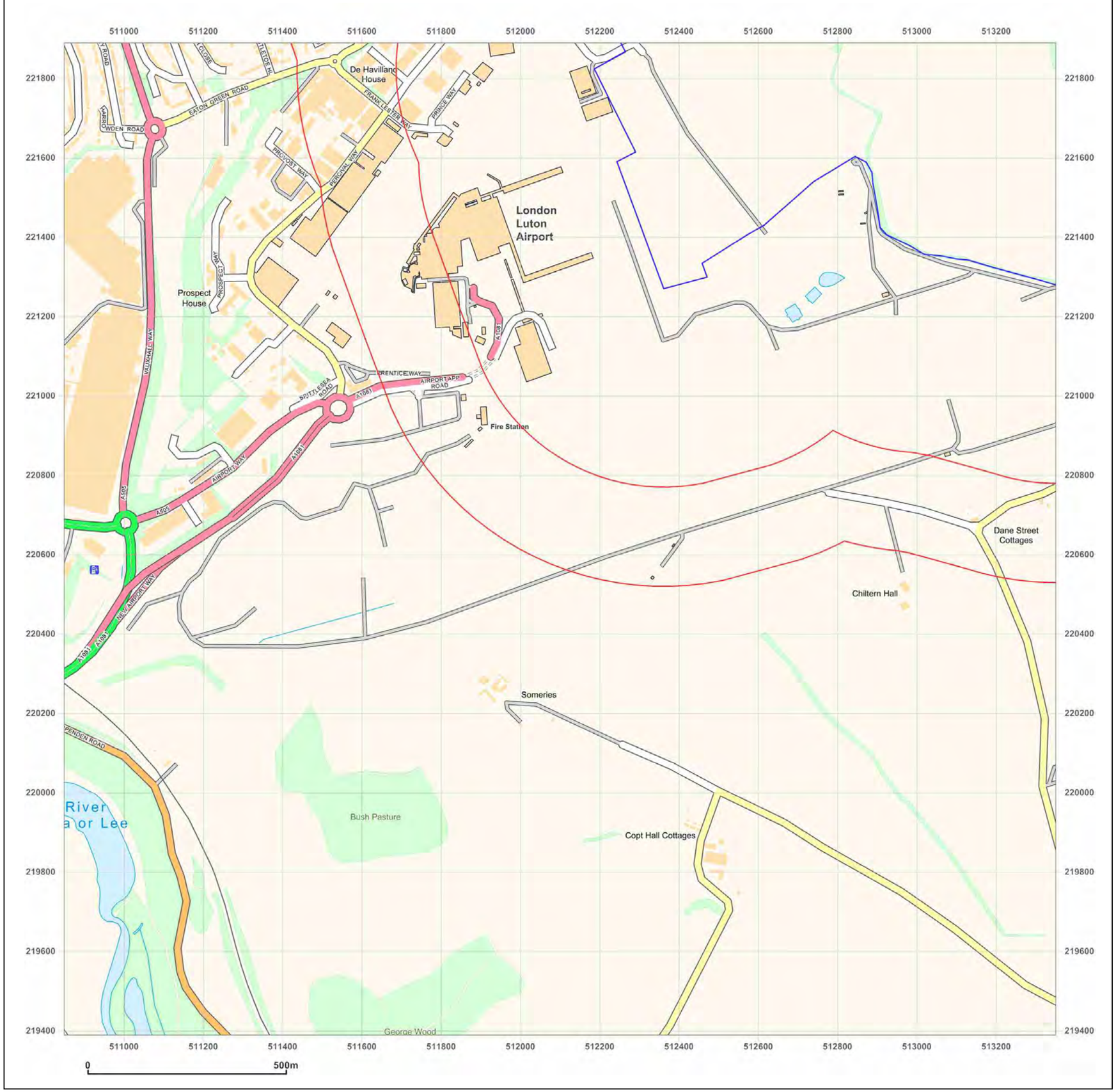

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_1
Grid Ref: 512100, 220639

Map Name: National Grid
Map date: 2014
Scale: 1:10,000
Printed at: 1:10,000

N
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Production date: 16 October 2018

Map legend available at:
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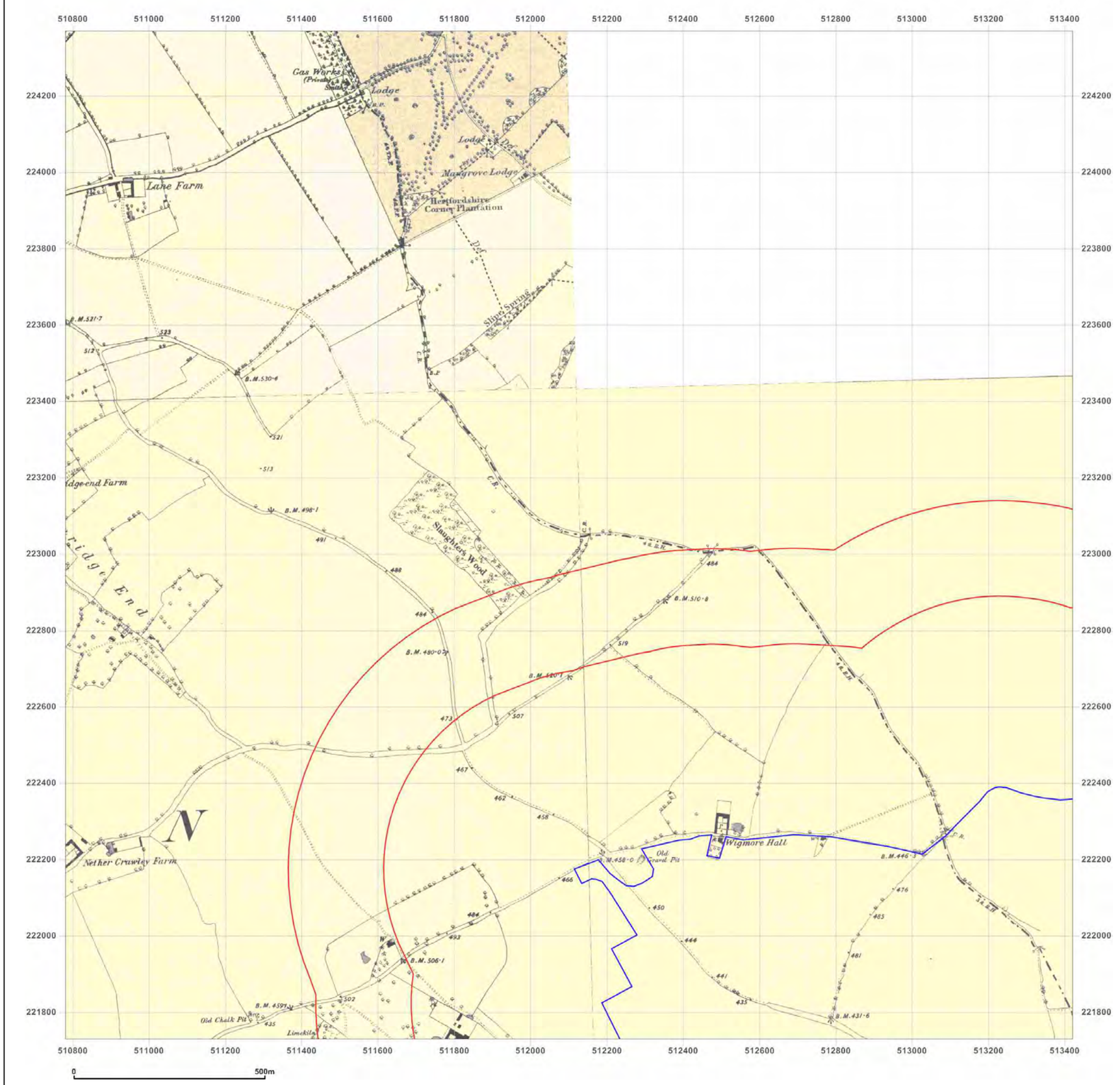

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: County Series

Map date: **1879-1880**

Scale: 1:10,560

Printed at: 1:10,560

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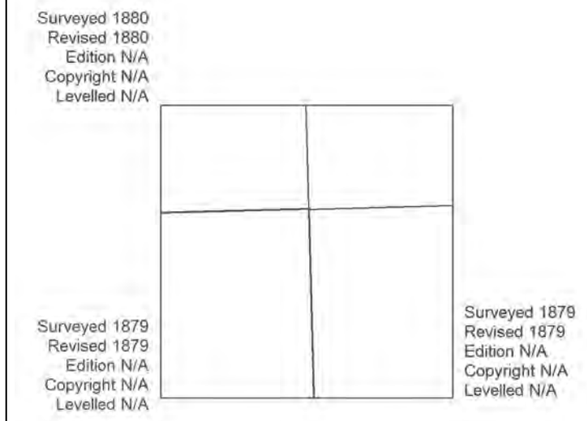

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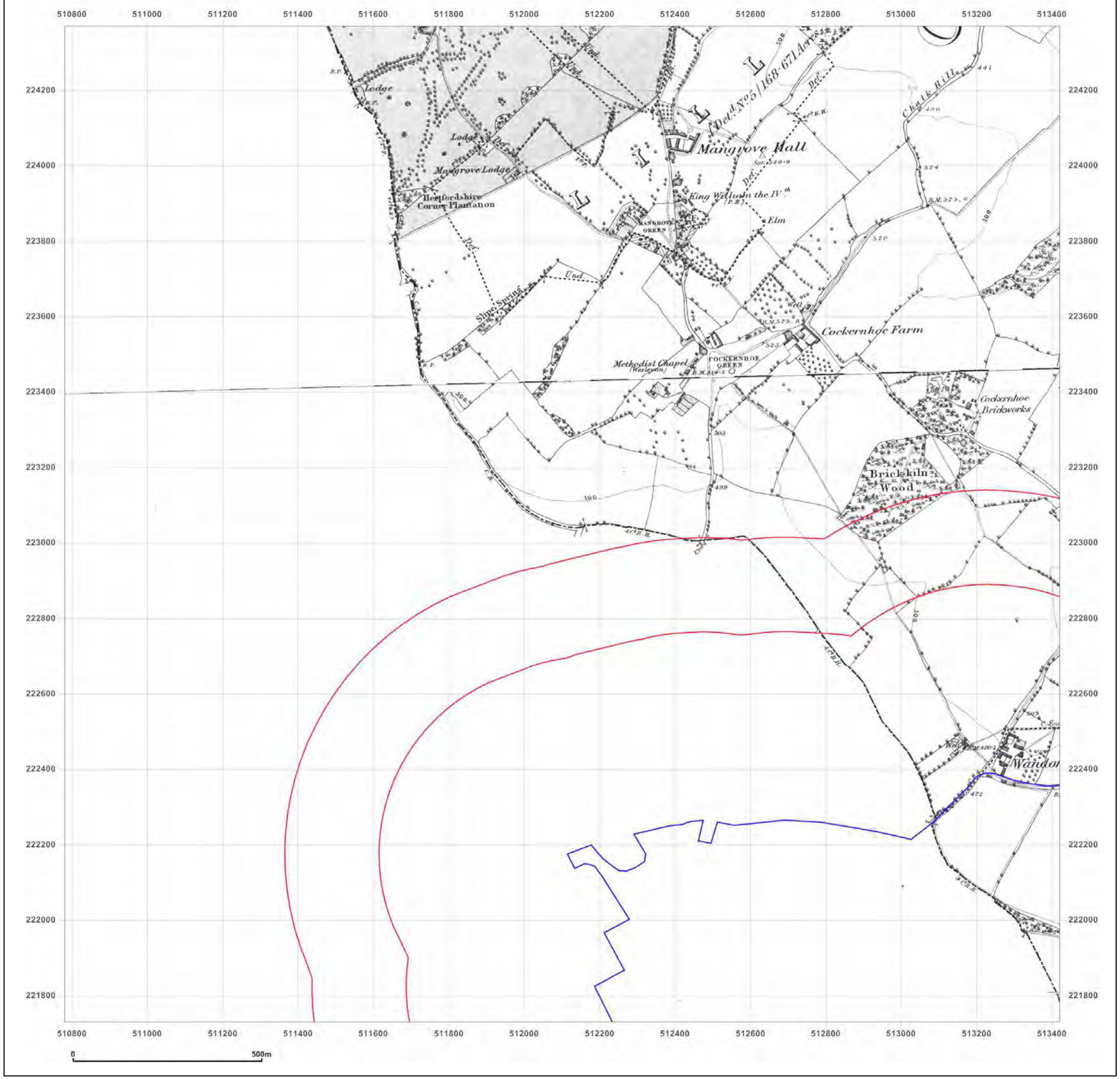

Groundsure INSIGHTS

Site Details:

513326.29595395754, 221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: County Series

Map date: **1884**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1880
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A

Surveyed 1881
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A

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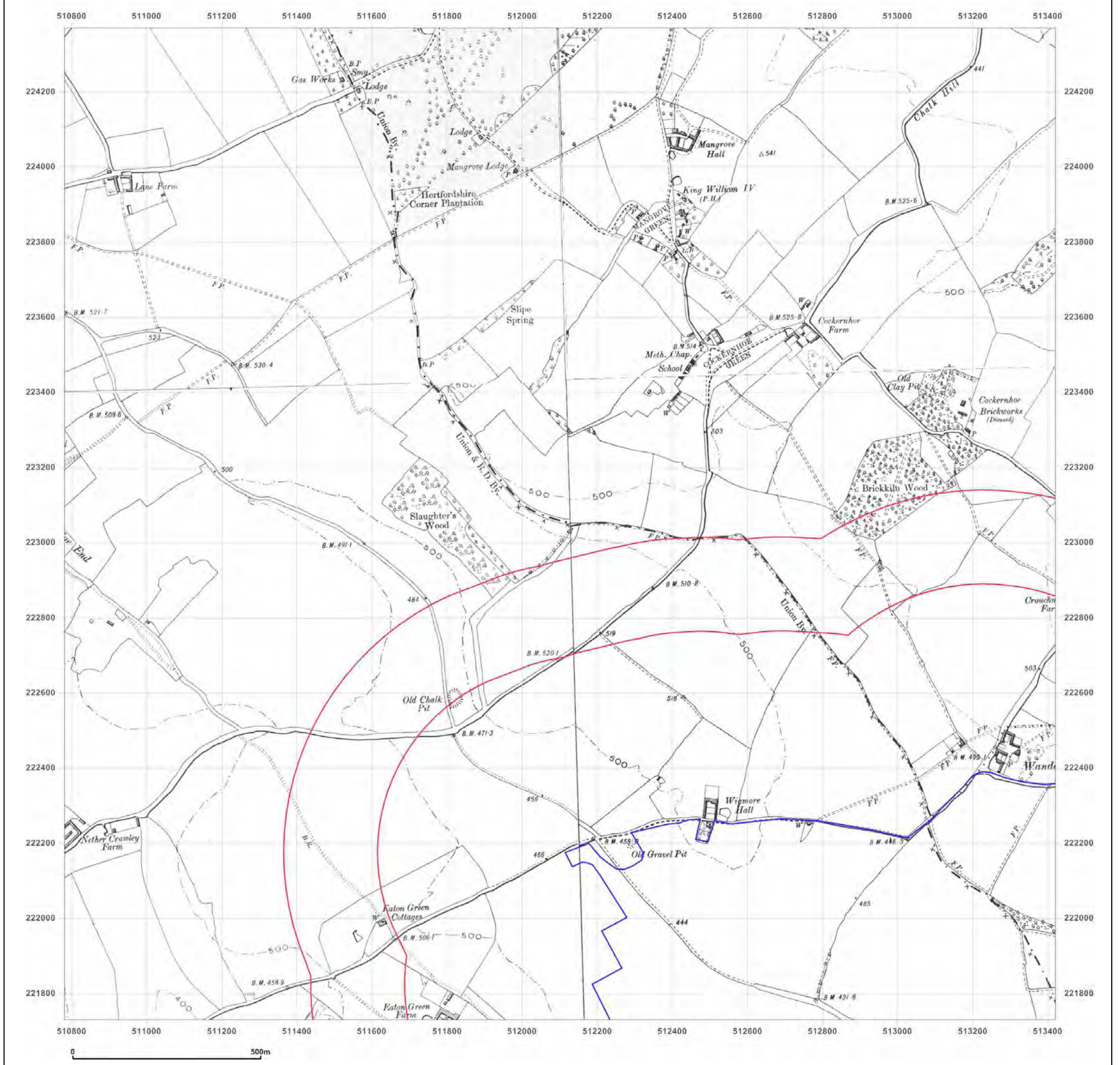

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: County Series

Map date: **1897-1900**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1880
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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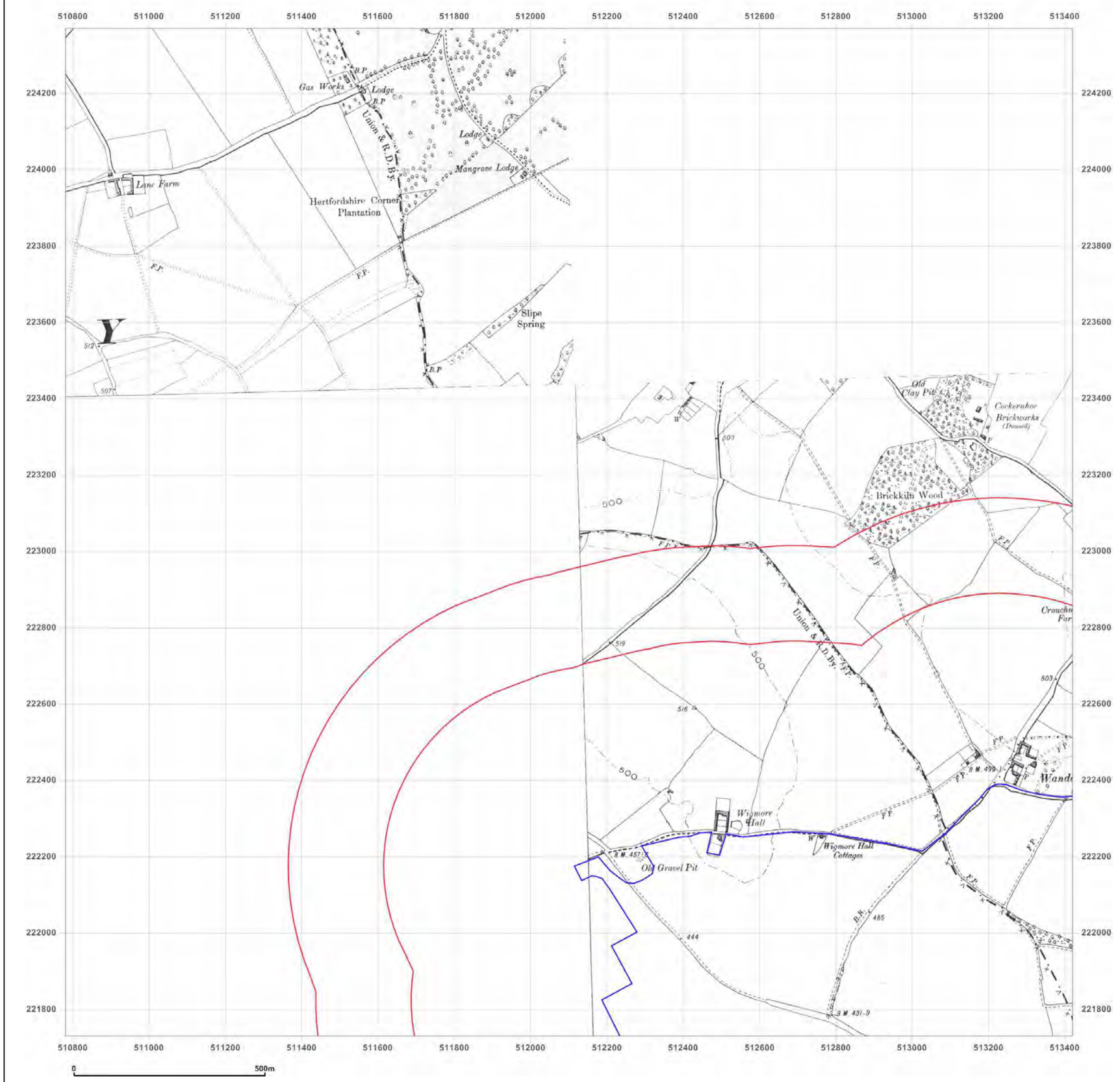

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: County Series

Map date: **1899-1900**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1878
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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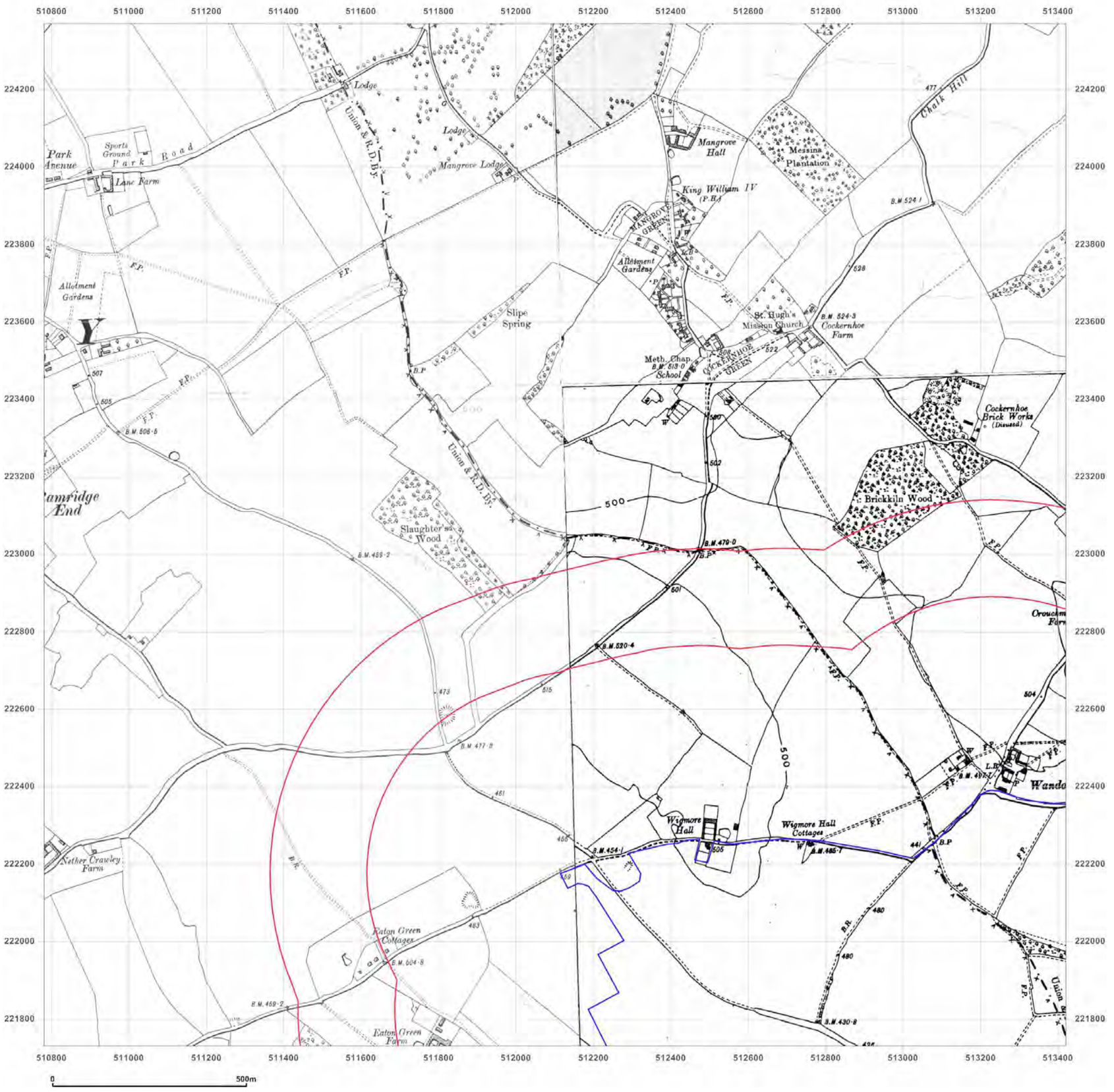

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: County Series

Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1878
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition 1925
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

Map legend available at:
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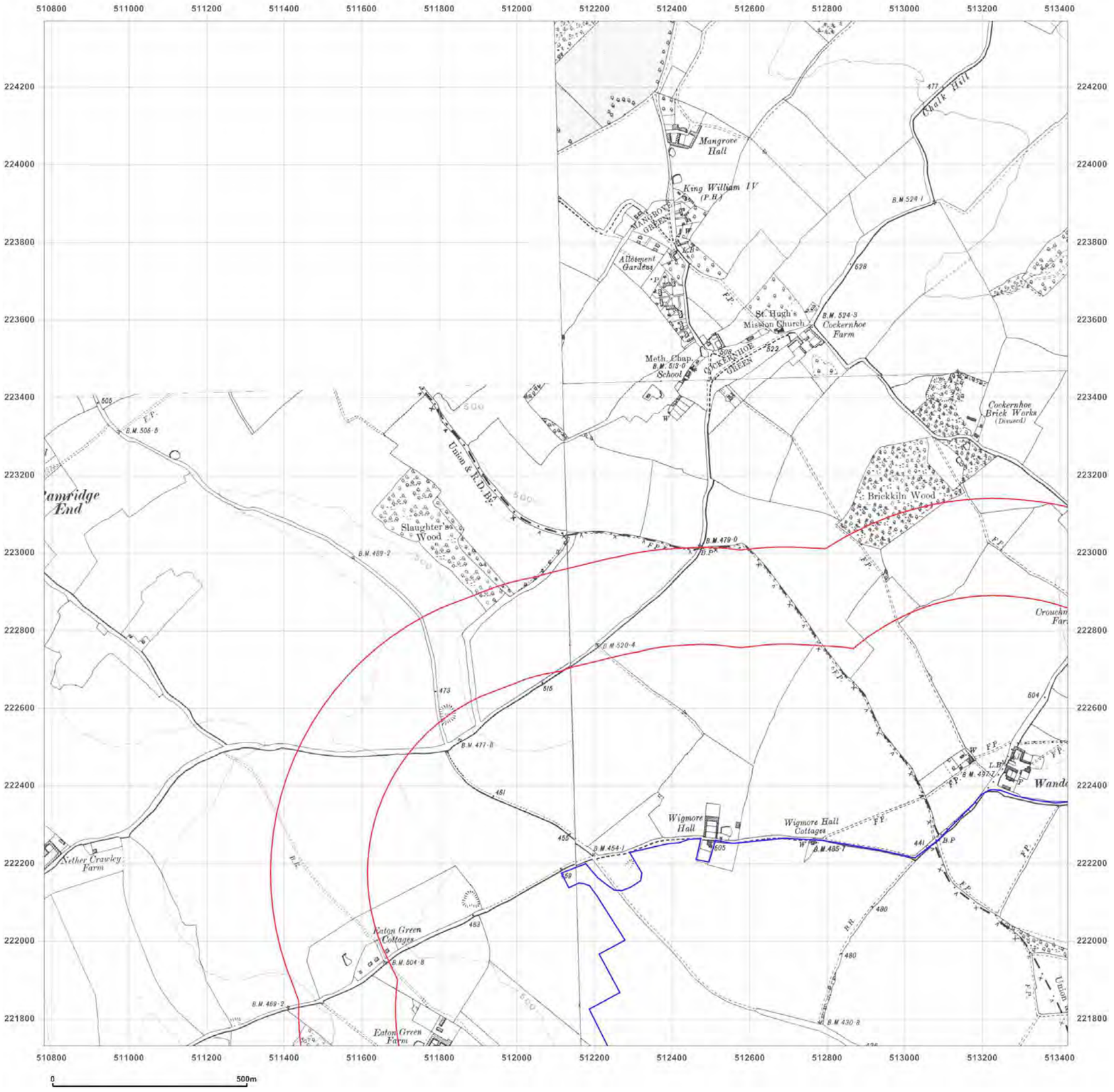

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: County Series

Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

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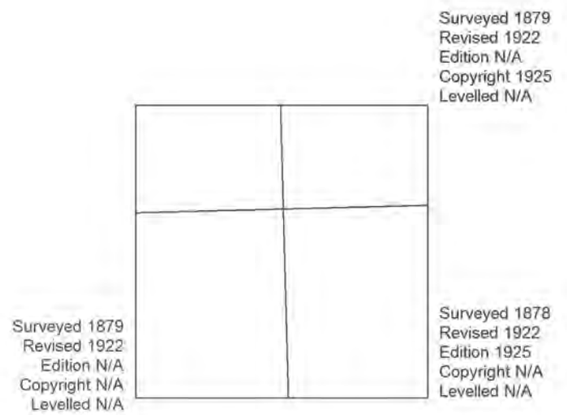

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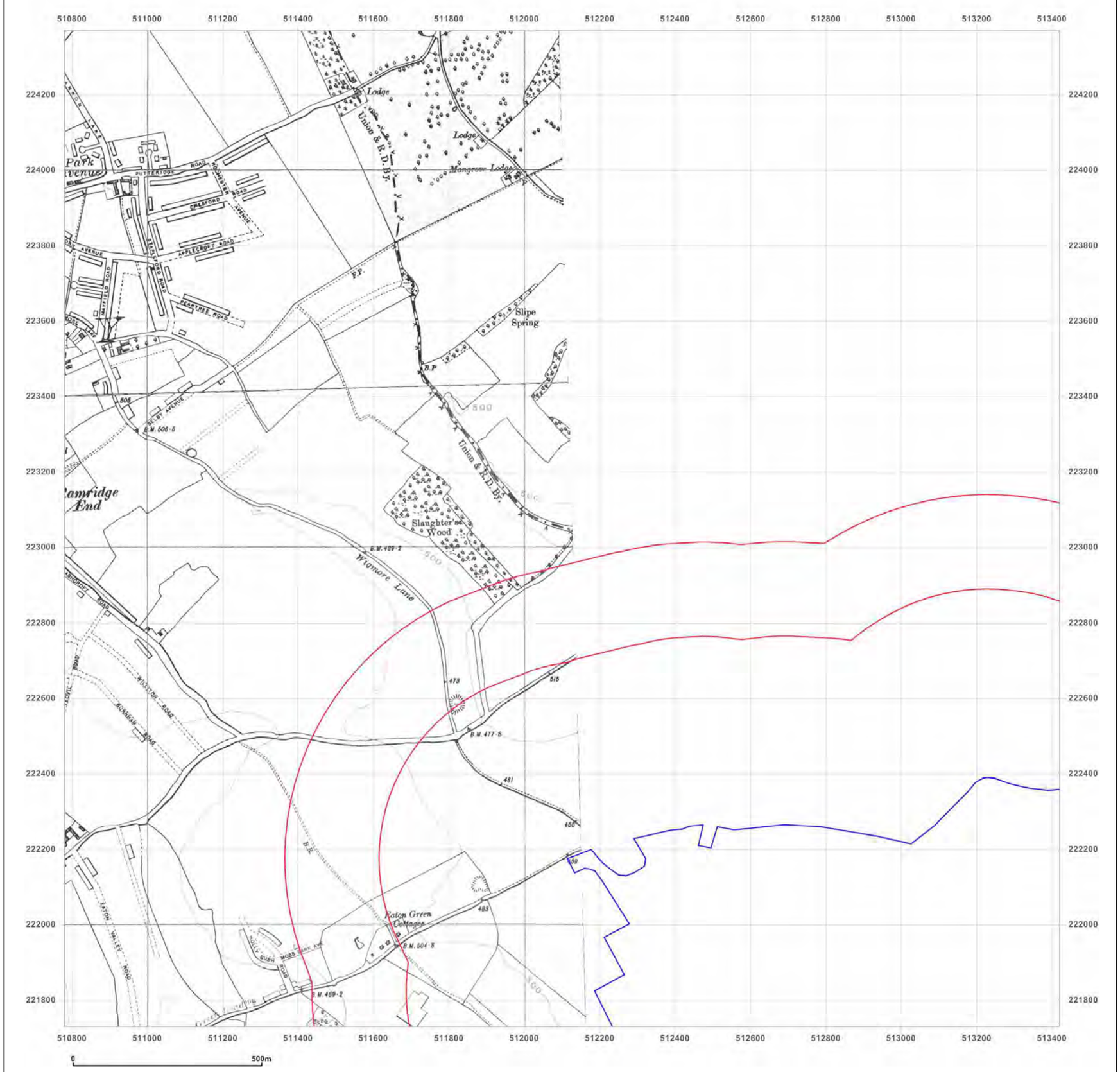

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: County Series
Map date: **1938**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
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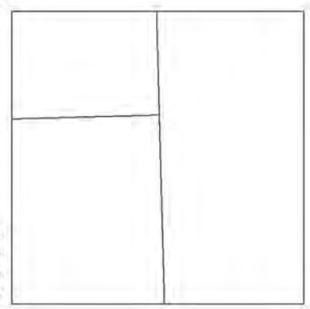
Surveyed 1878
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A



Surveyed 1879
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

Map legend available at:
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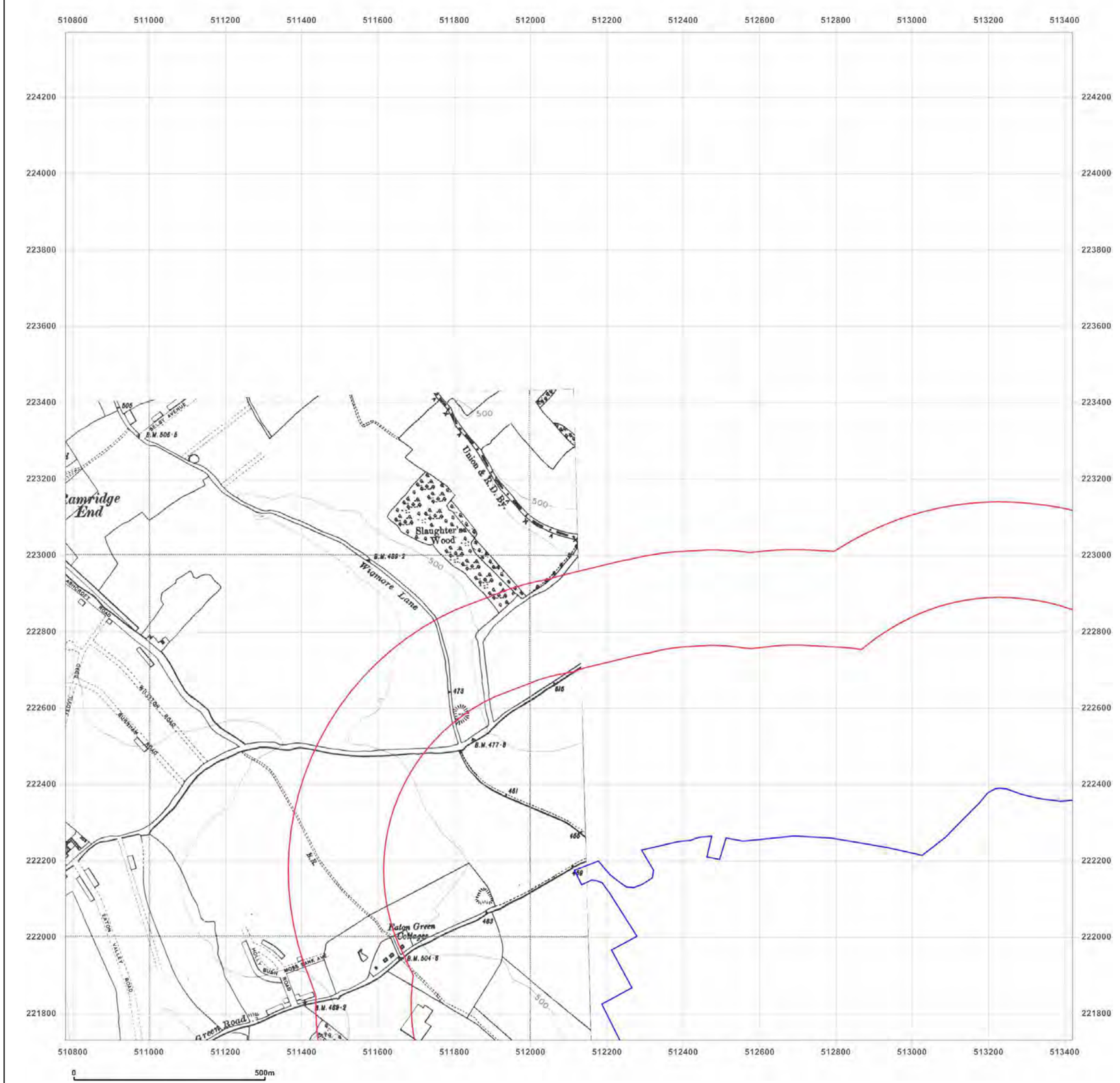


Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

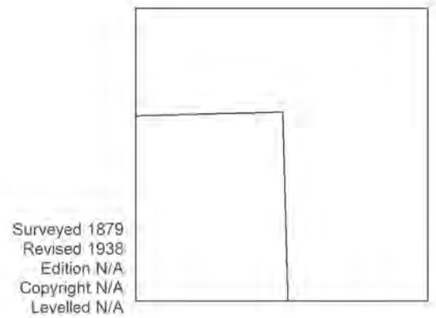
Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



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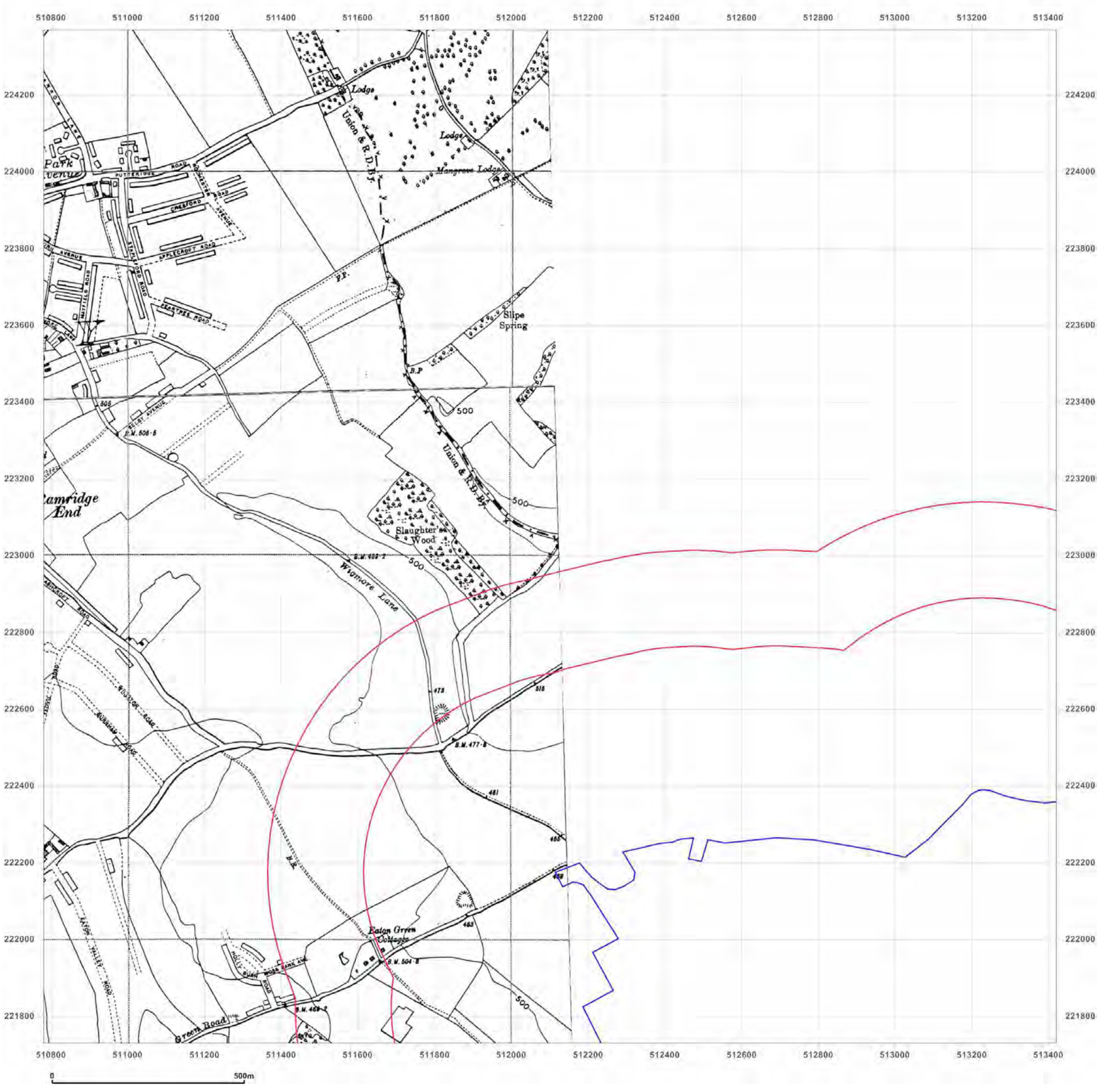

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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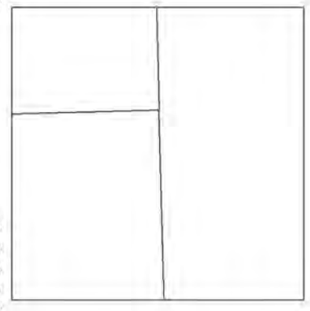
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1979
Revised 1938
Edition N/A
Copyright N/A
Levelled 1923

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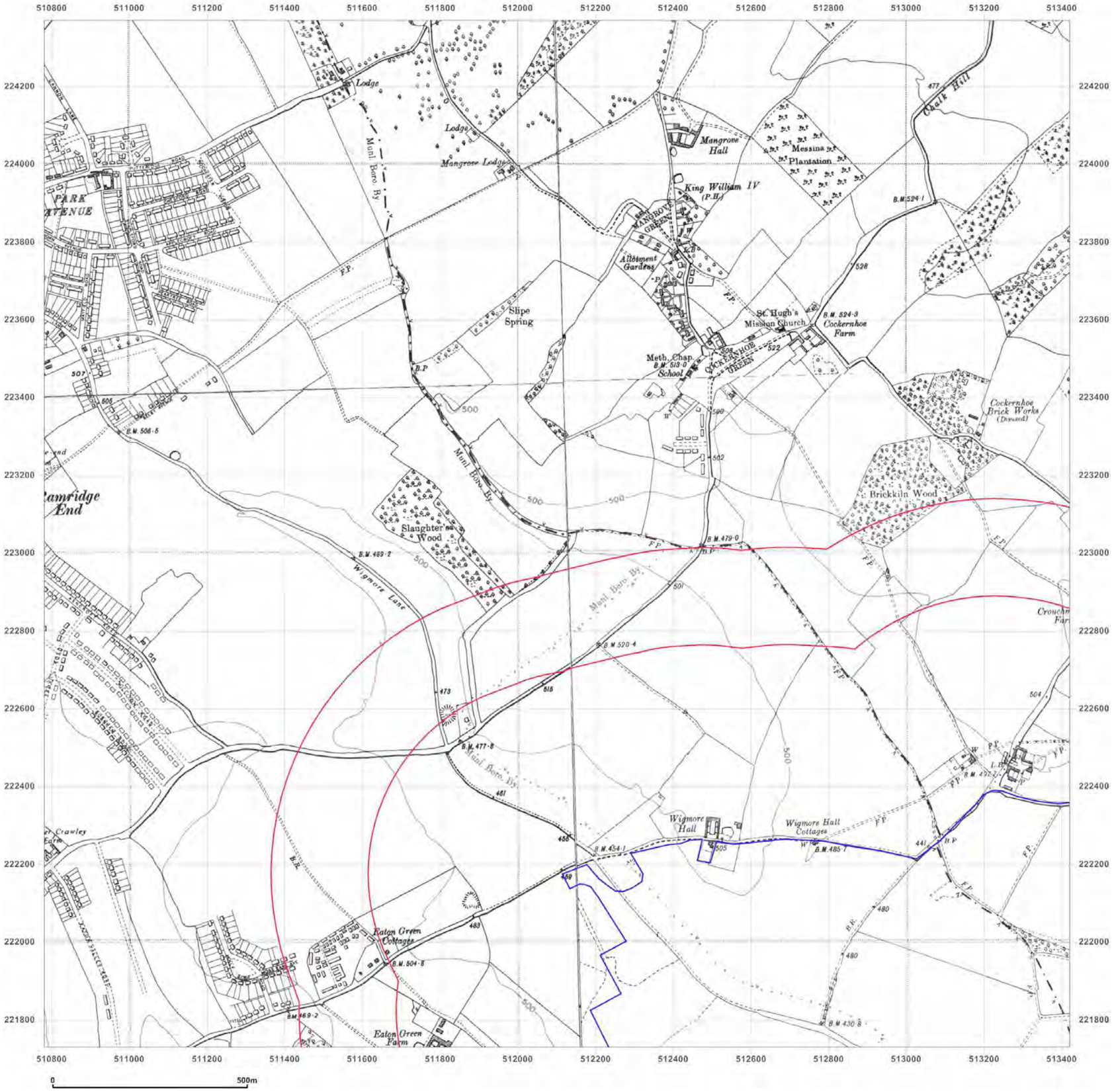

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

N
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S

Surveyed 1878
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1947
Edition N/A
Copyright N/A
Levelled 1922

Surveyed 1879
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

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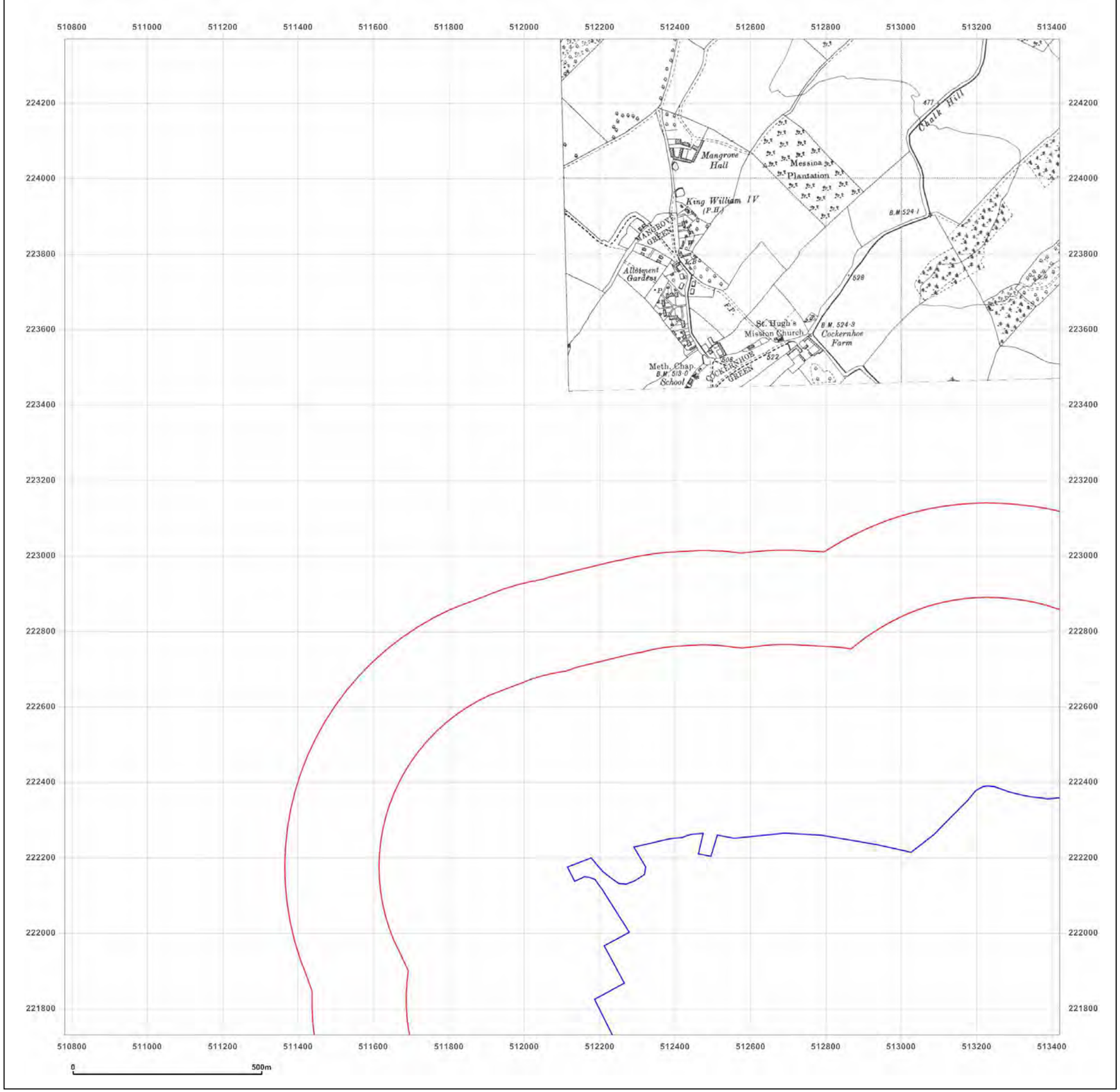

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

N
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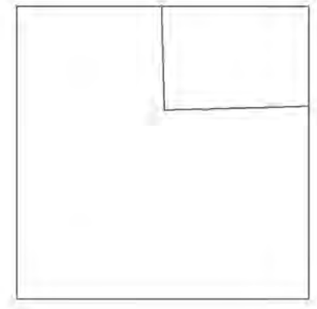
Surveyed 1879
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A



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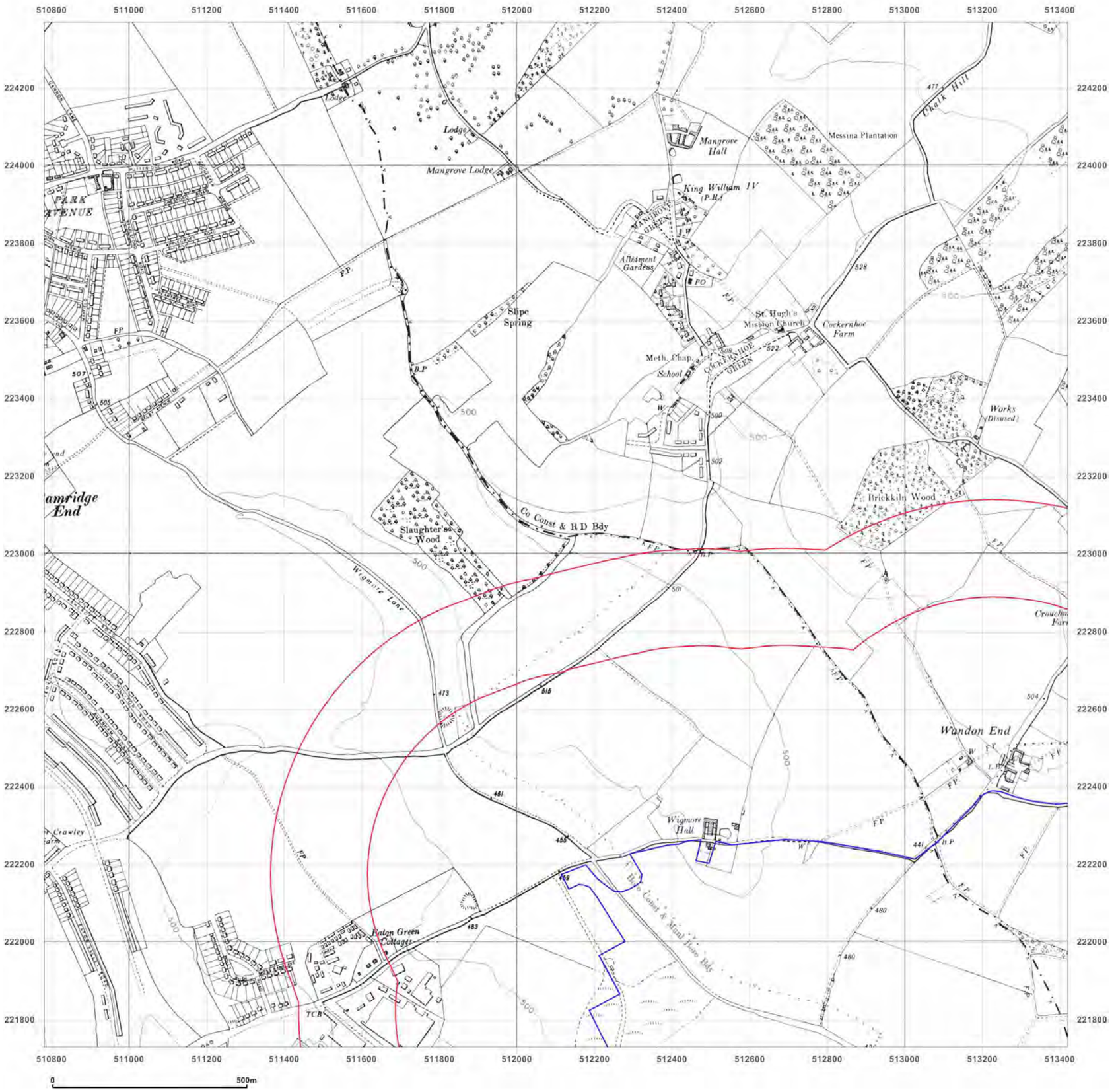

Groundsure INSIGHTS

Site Details:

513326.29595395754, 221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: Provisional

Map date: **1960**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

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Production date: 16 October 2018

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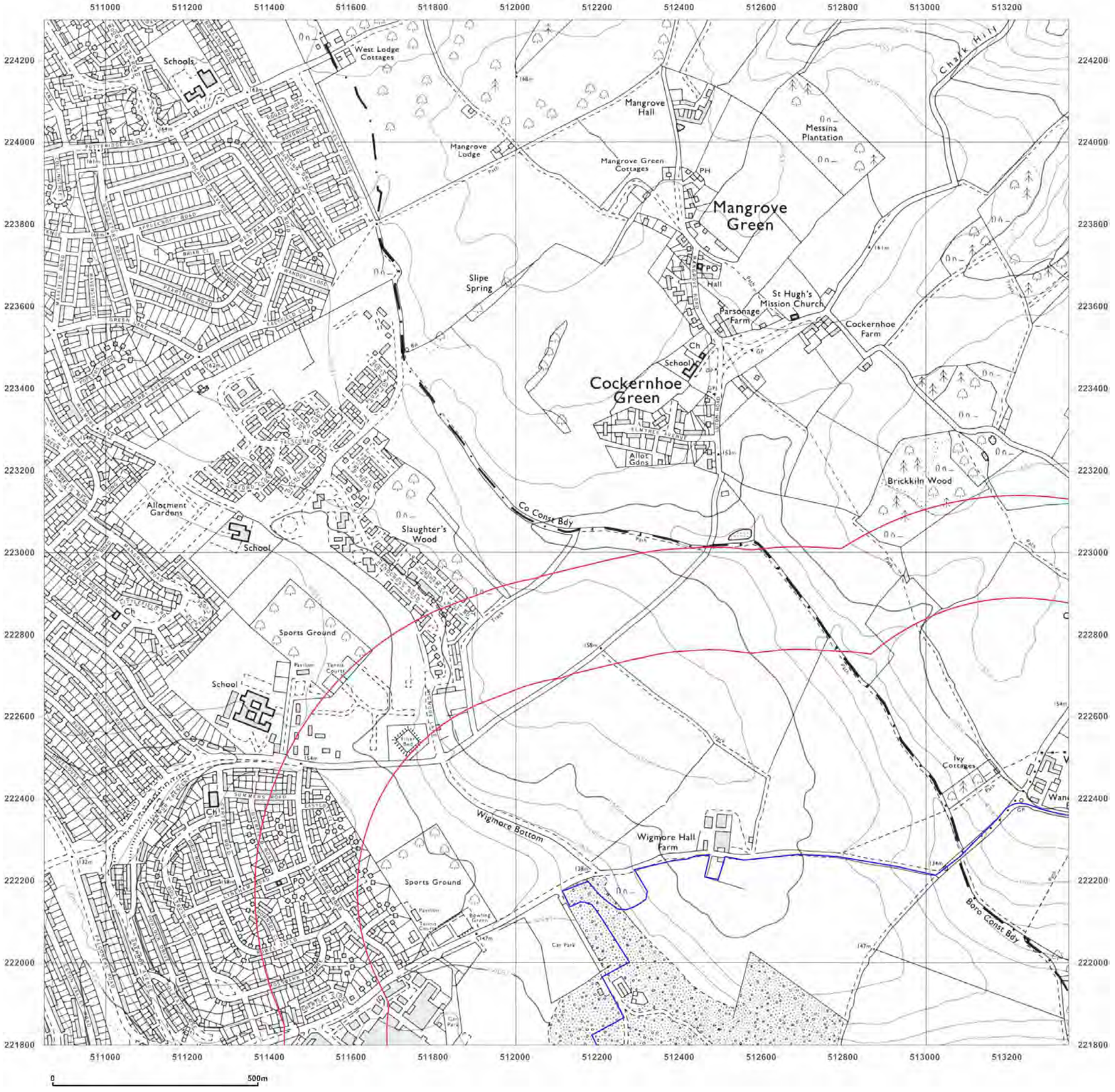

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: National Grid

Map date: **1975**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1973
Revised 1975
Edition N/A
Copyright 1975
Levelled 1973

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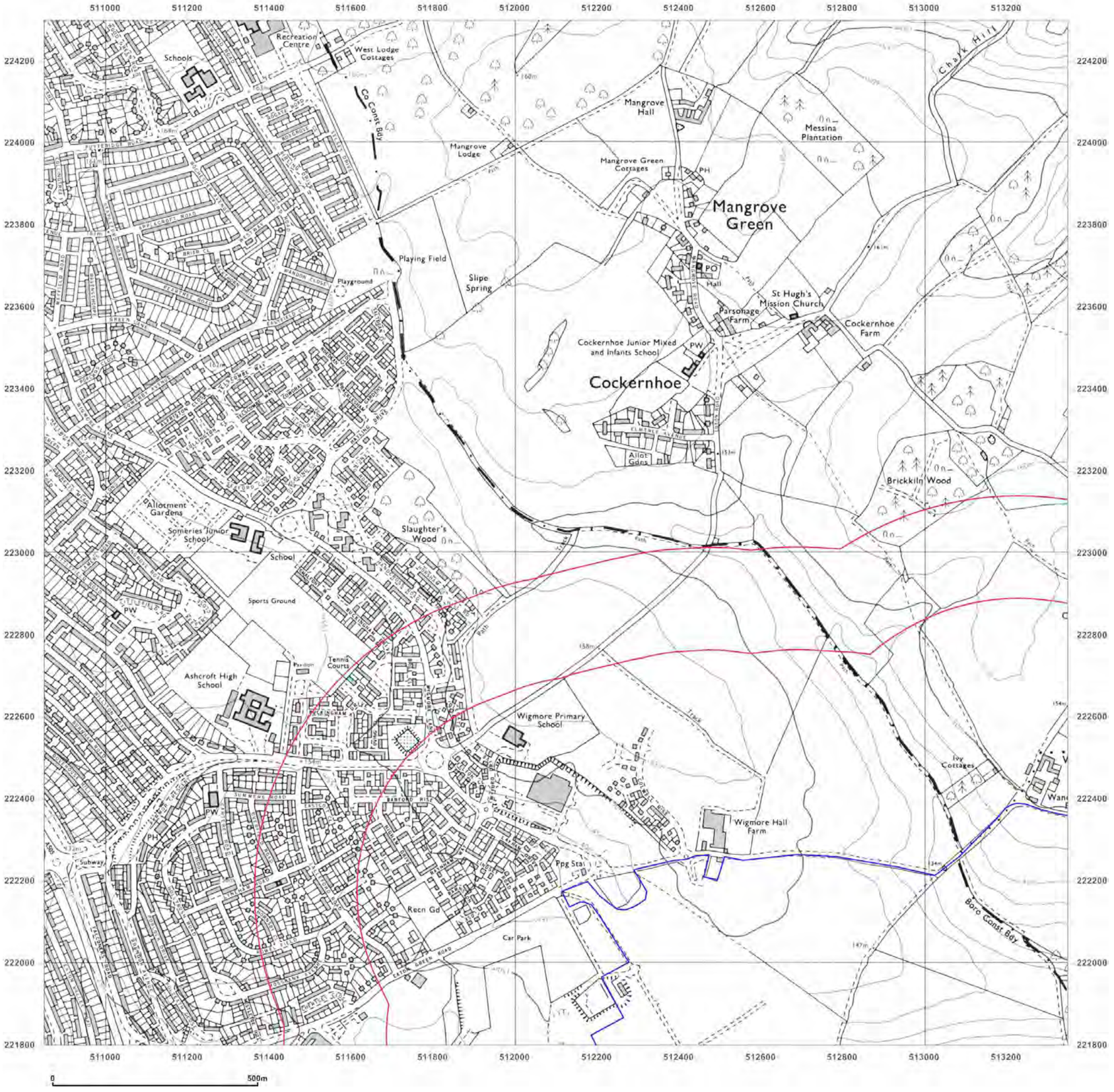

Groundsure INSIGHTS

Site Details:

513326.29595395754, 221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: National Grid

Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

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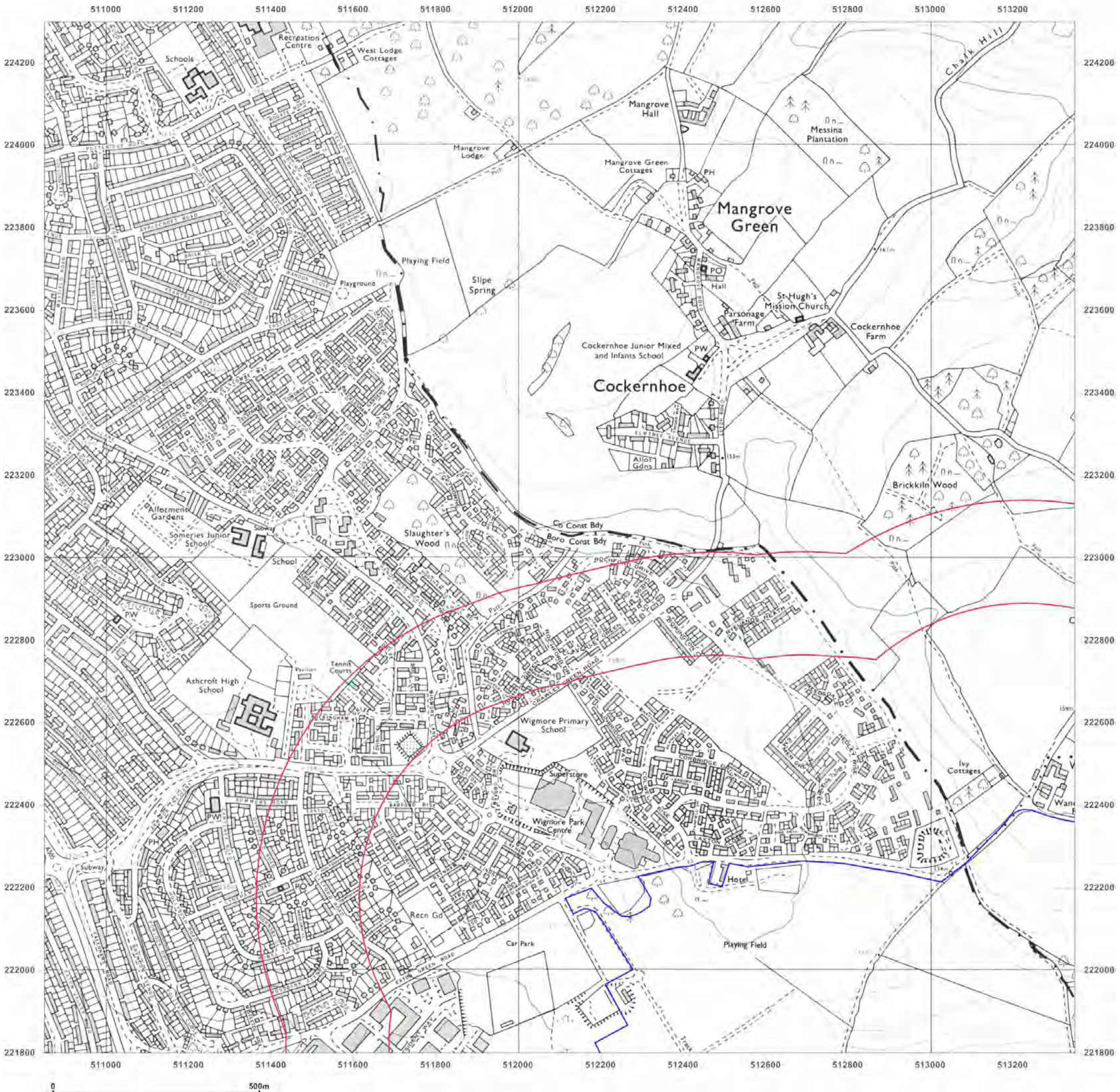

Groundsure INSIGHTS

Site Details:

513326.29595395754, 221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: National Grid

Map date: **1991**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

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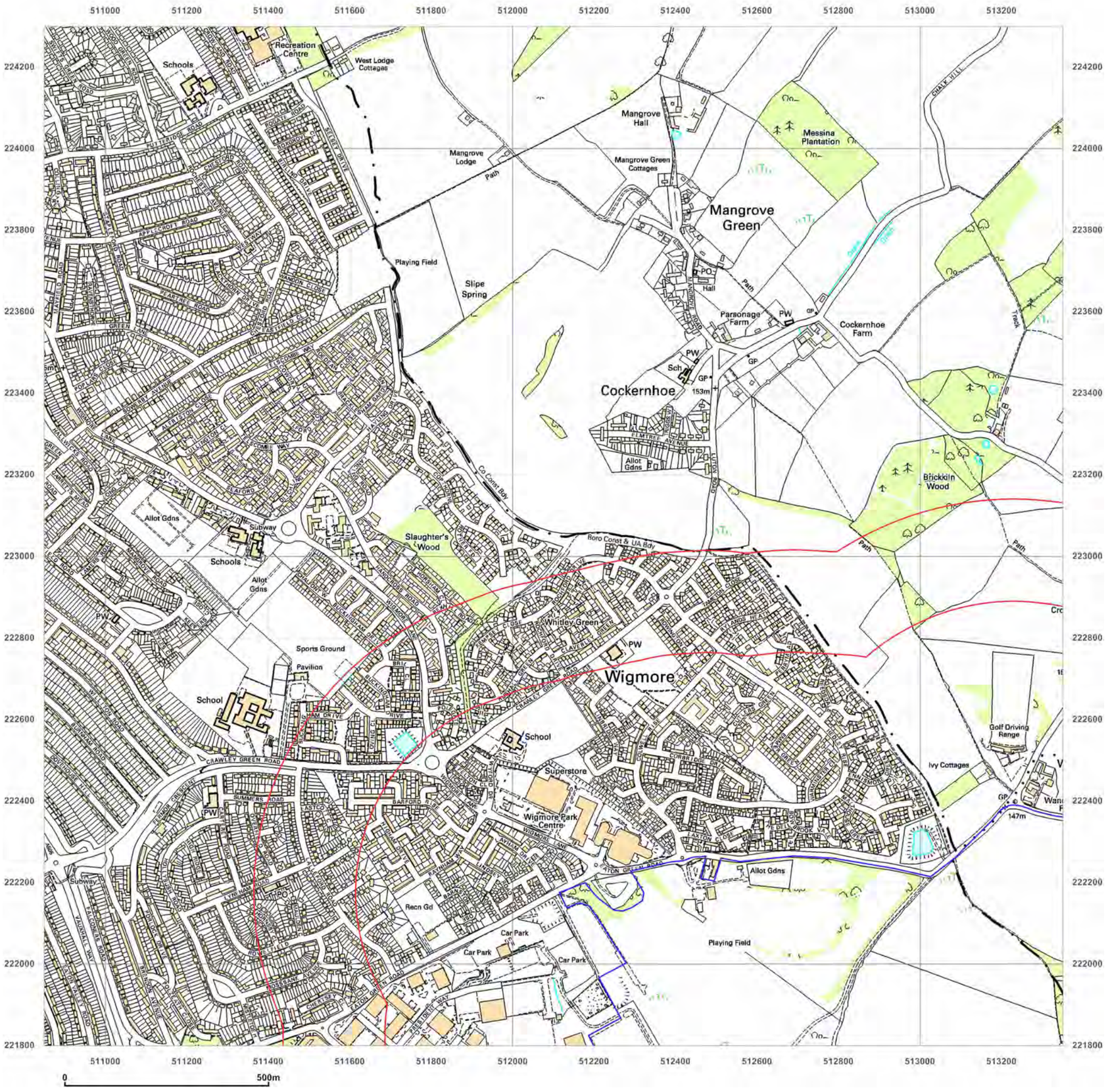

Groundsure INSIGHTS

Site Details:

513326.29595395754, 221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: 1:10,000 Raster

Map date: **2002**

Scale: 1:10,000

Printed at: 1:10,000

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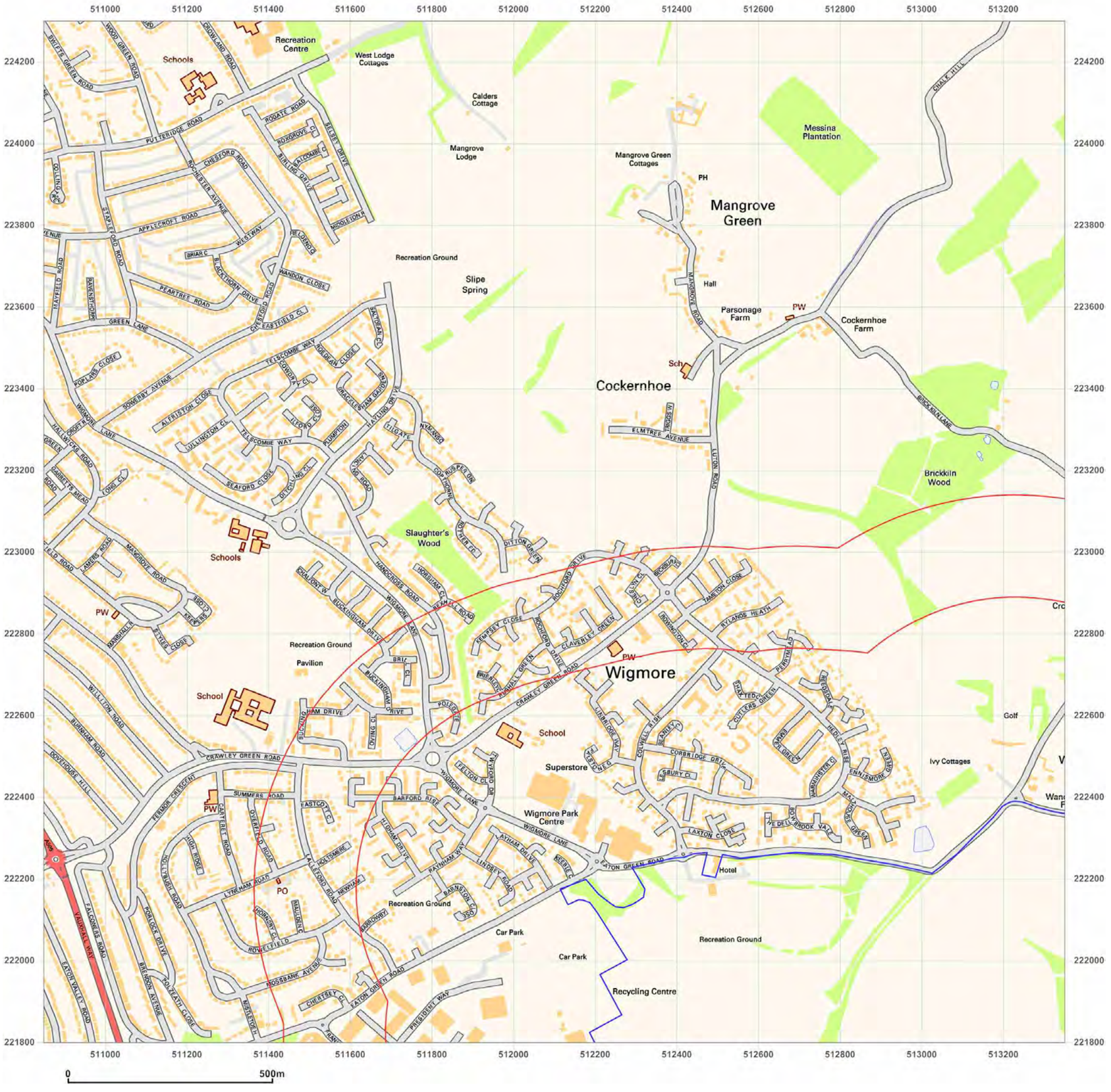

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

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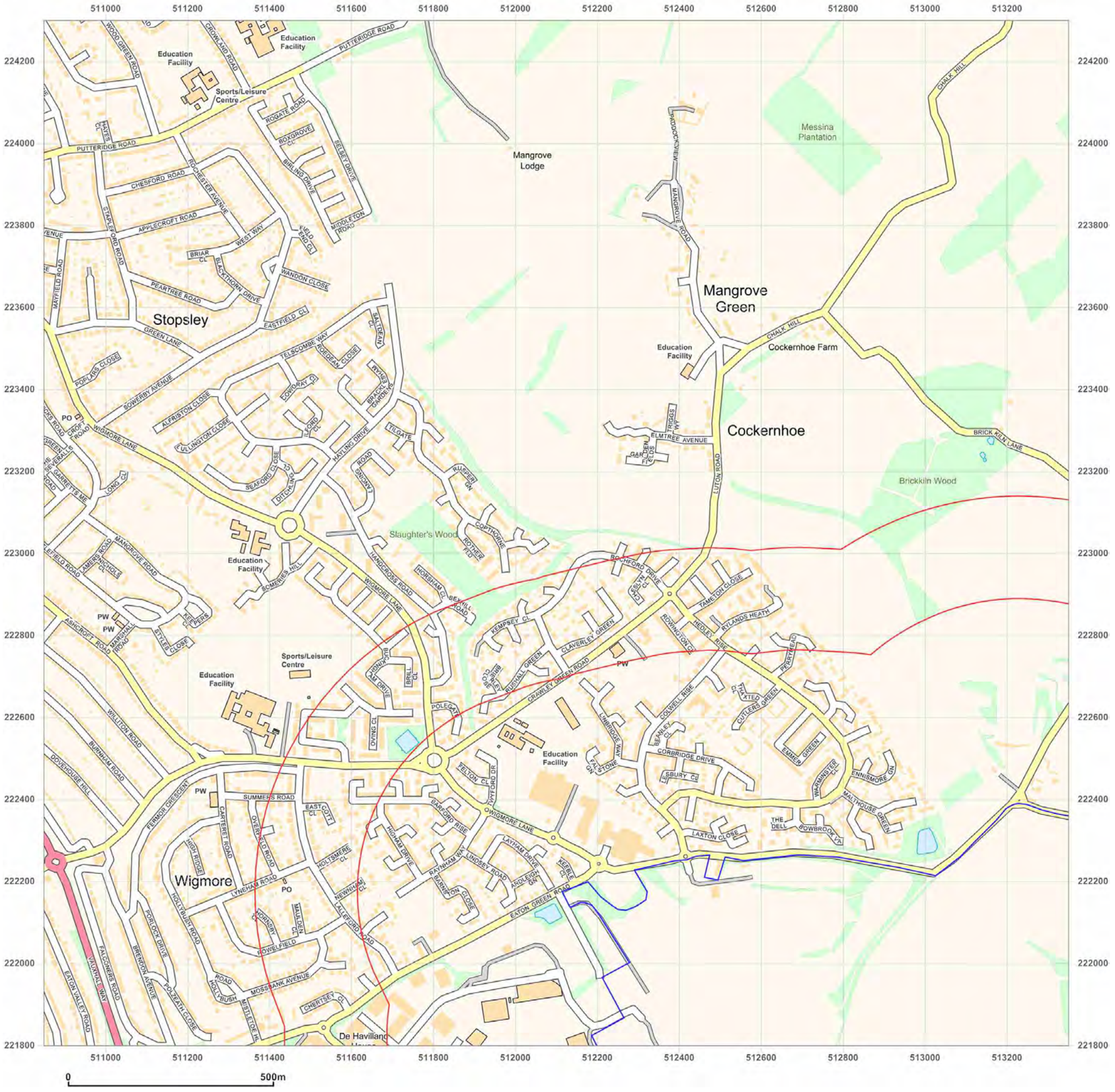

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_1_2
Grid Ref: 512100, 223049

Map Name: National Grid
Map date: **2014**
Scale: 1:10,000
Printed at: 1:10,000

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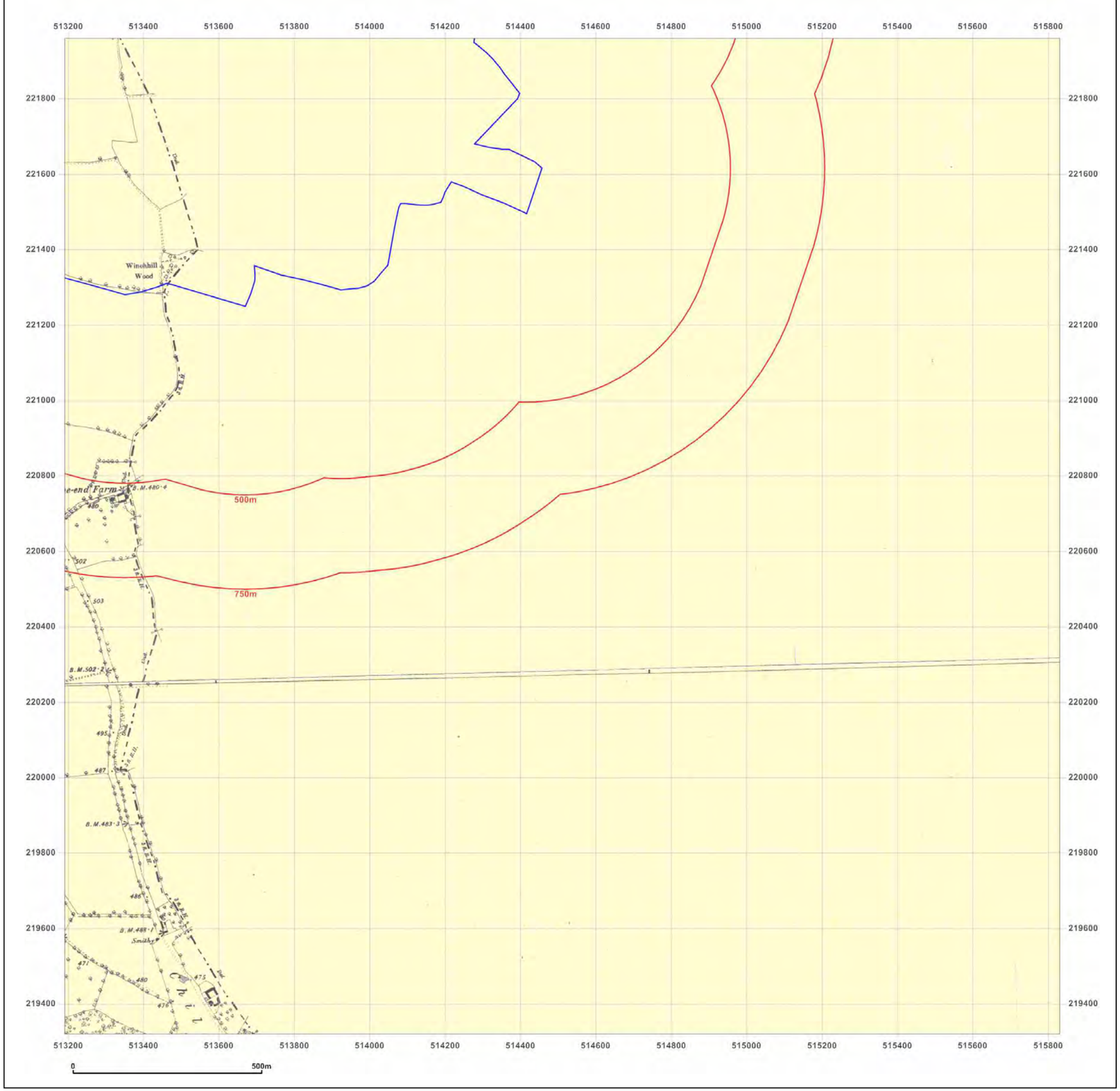

Groundsure INSIGHTS

Site Details:

513326.29595395754, 221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: County Series

Map date: **1879**

Scale: 1:10,560

Printed at: 1:10,560

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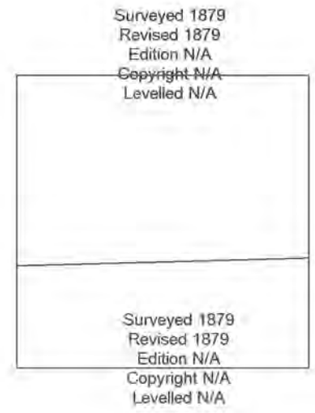

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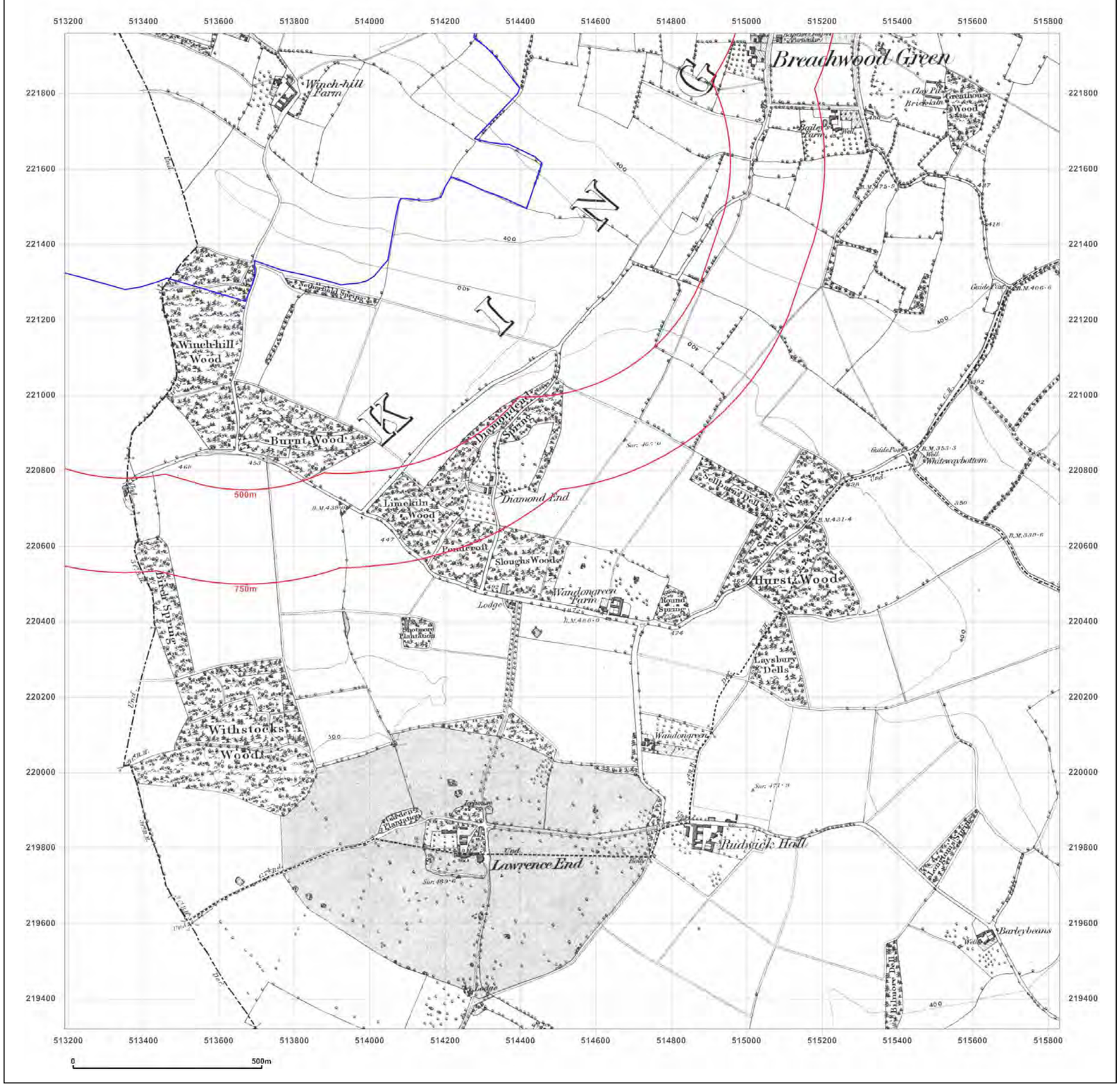

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: County Series

Map date: **1884**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1881
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A

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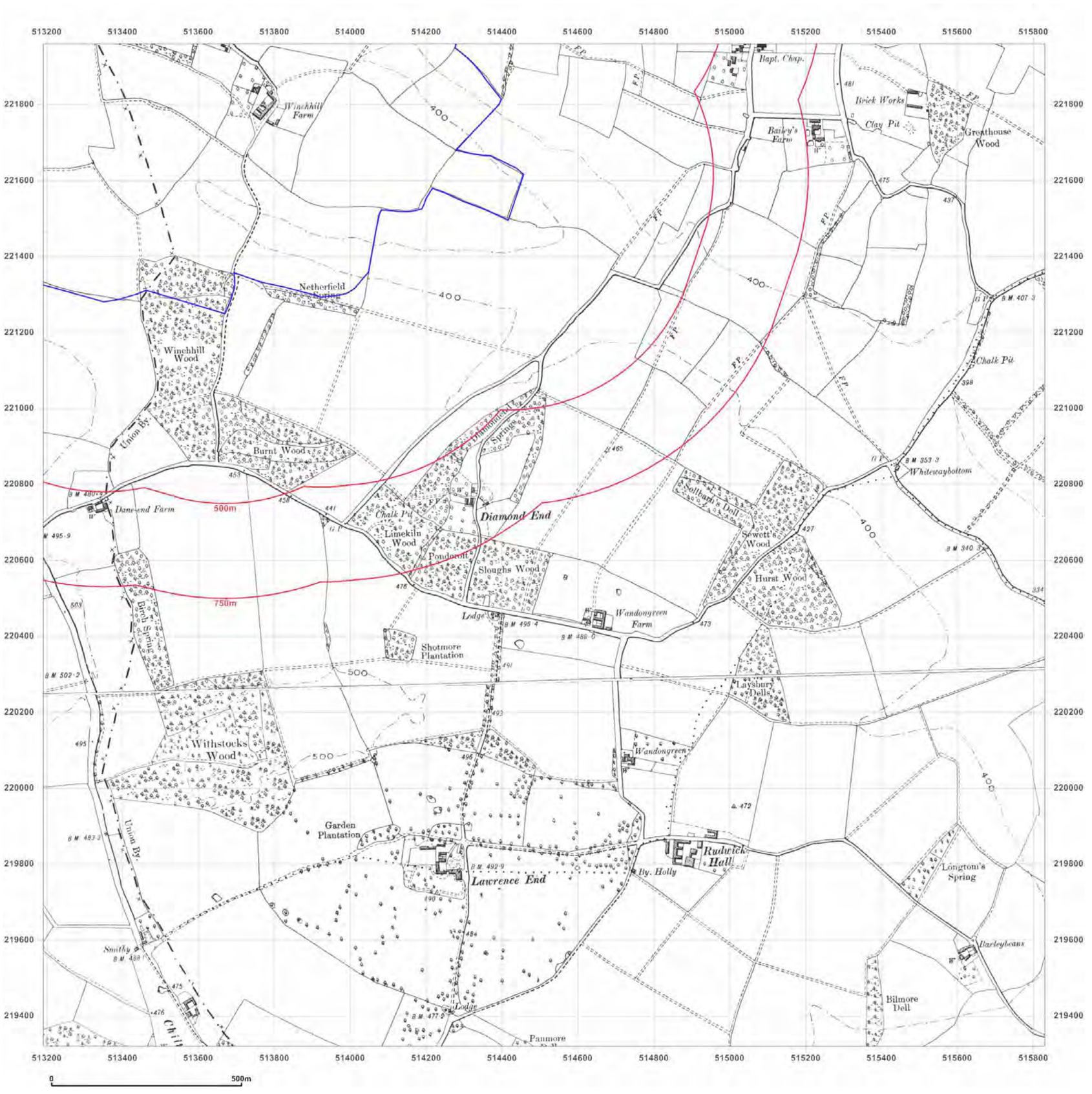

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1881
Revised 1899
Edition N/A
~~Copyright N/A~~
Levelled N/A

Surveyed 1881
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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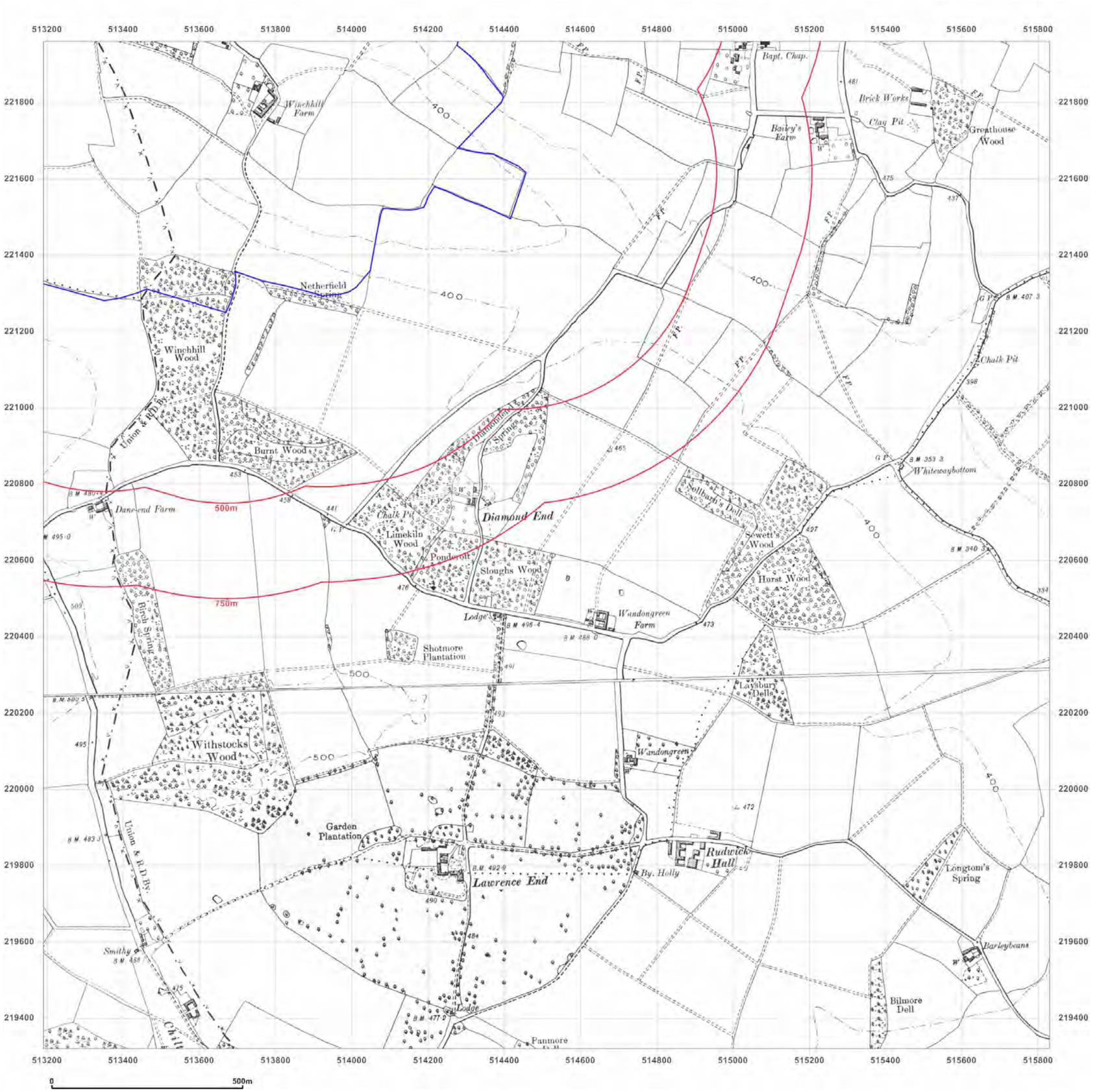

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1880
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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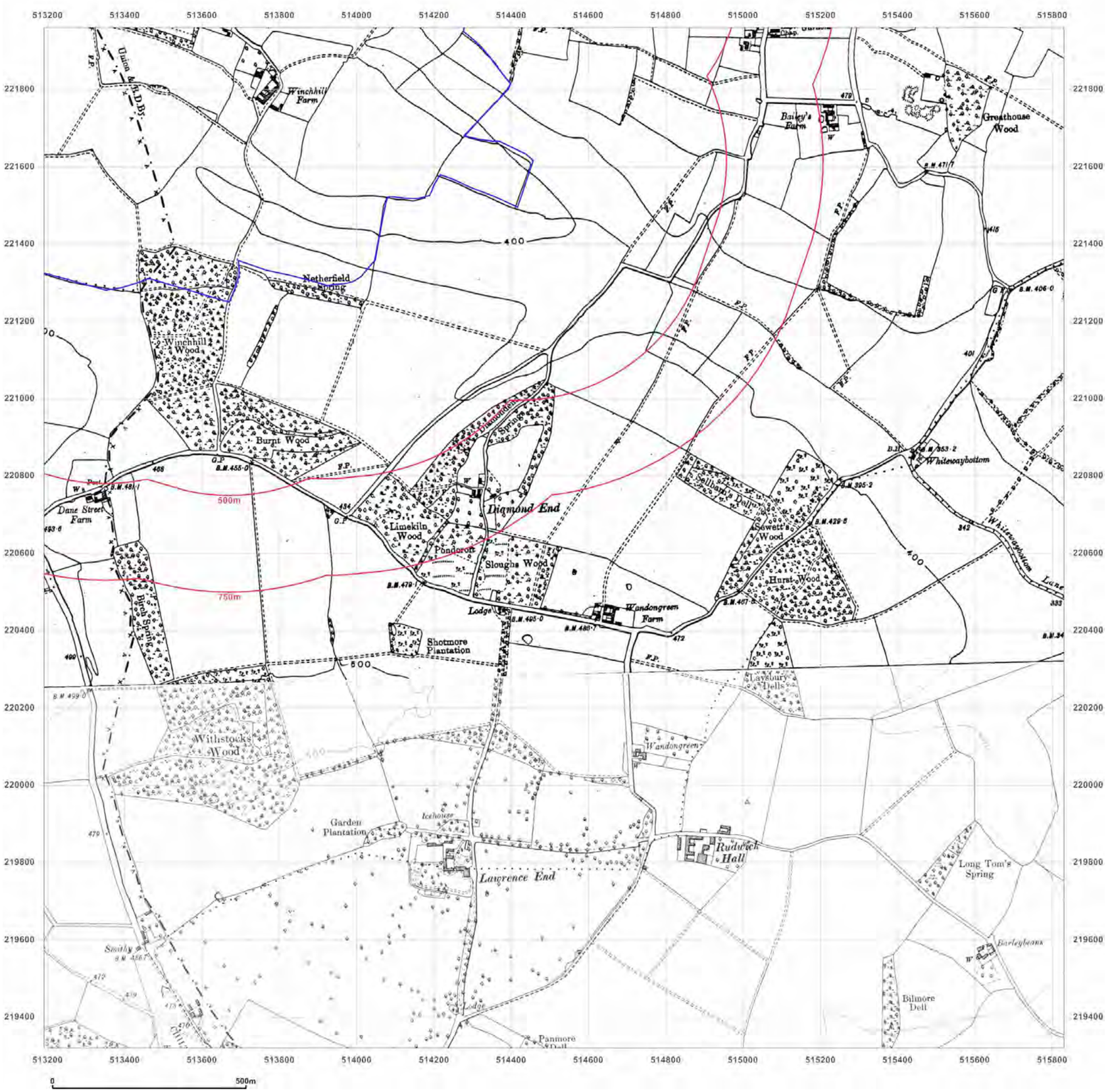

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: County Series

Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed N/A
Revised N/A
Edition 1925
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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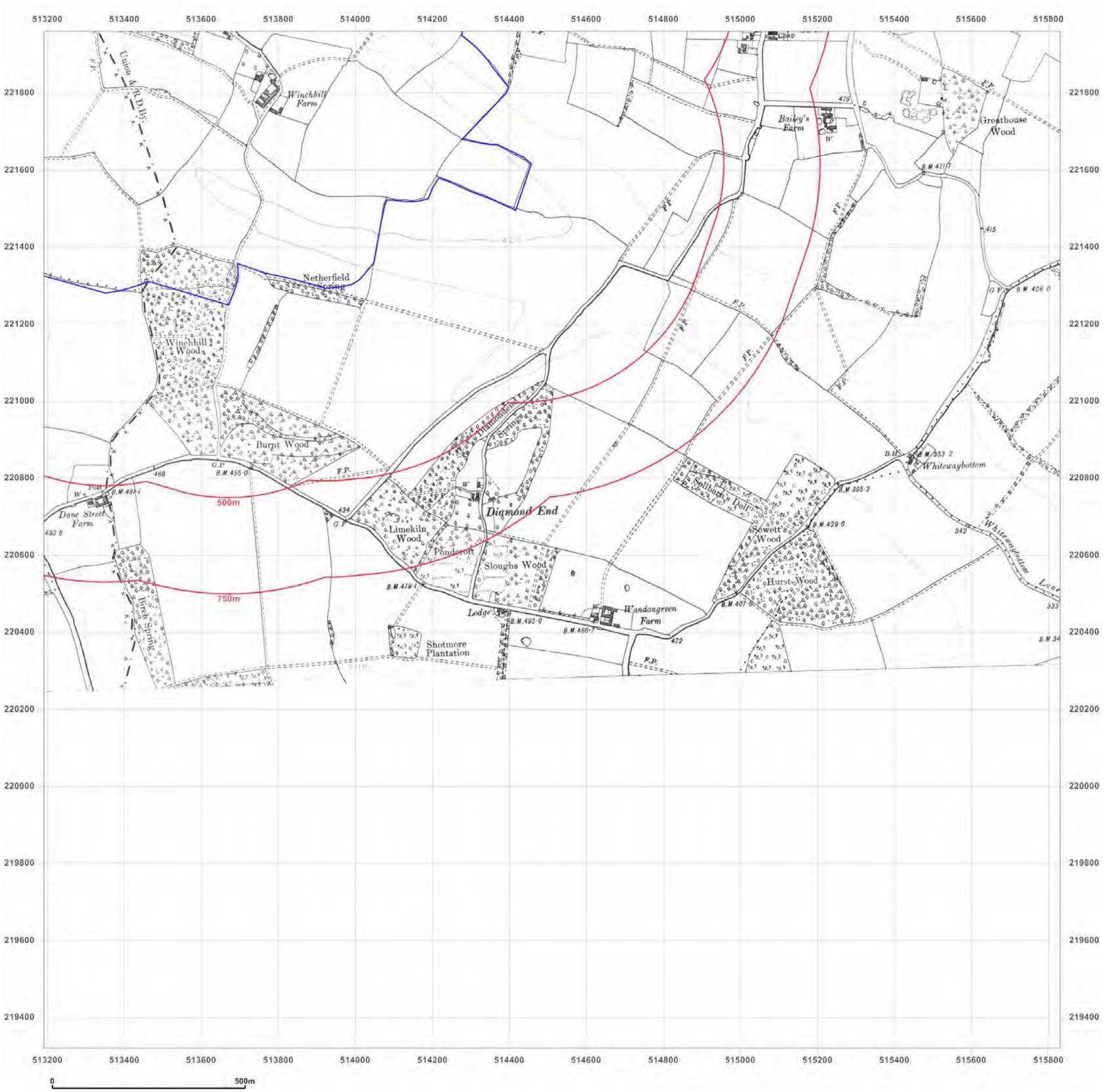

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: County Series

Map date: **1925**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1878
Revised 1922
Edition 1925
Copyright N/A
Levelled N/A

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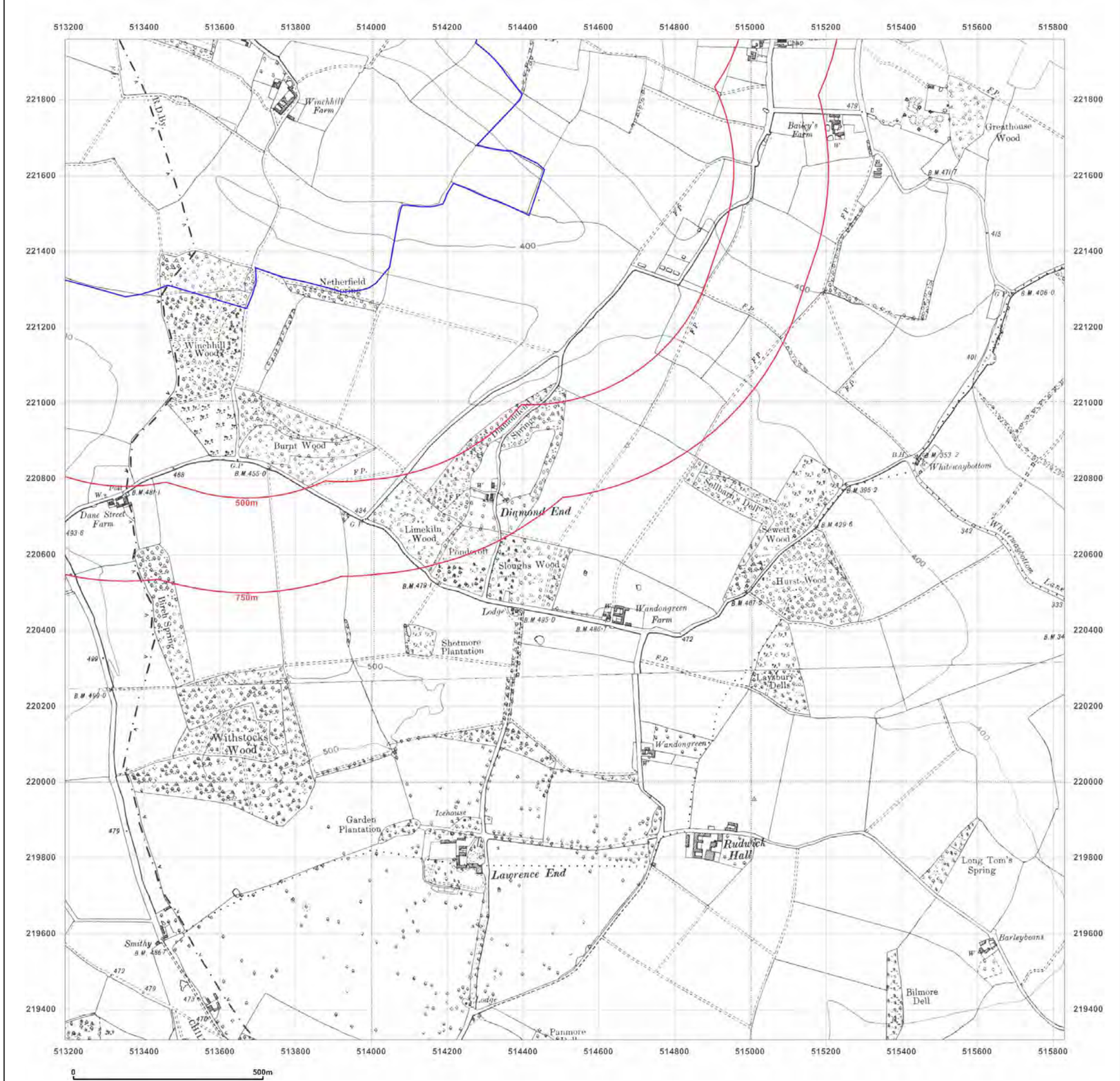

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

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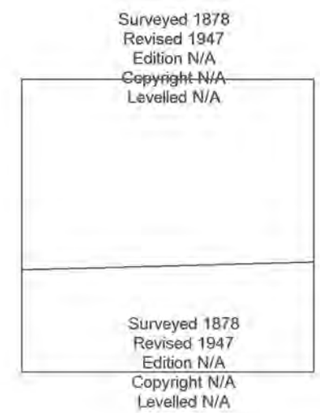

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Map legend available at:
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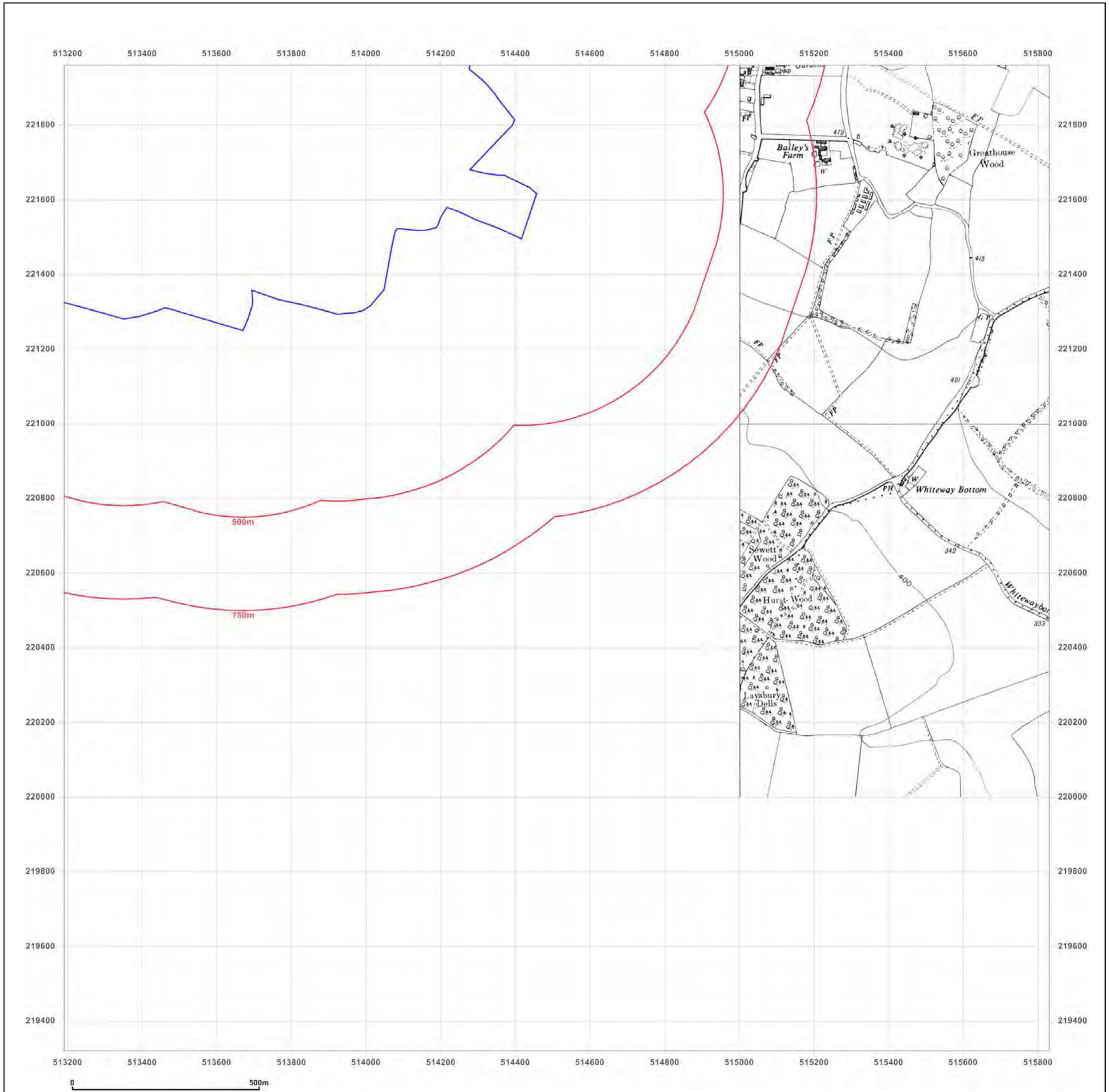

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: Provisional
Map date: **1951**
Scale: 1:10,560
Printed at: 1:10,560

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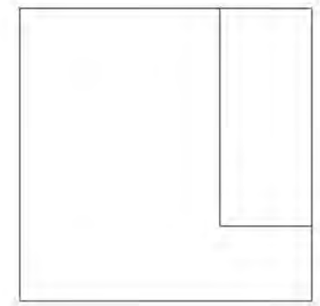

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Production date: 16 October 2018

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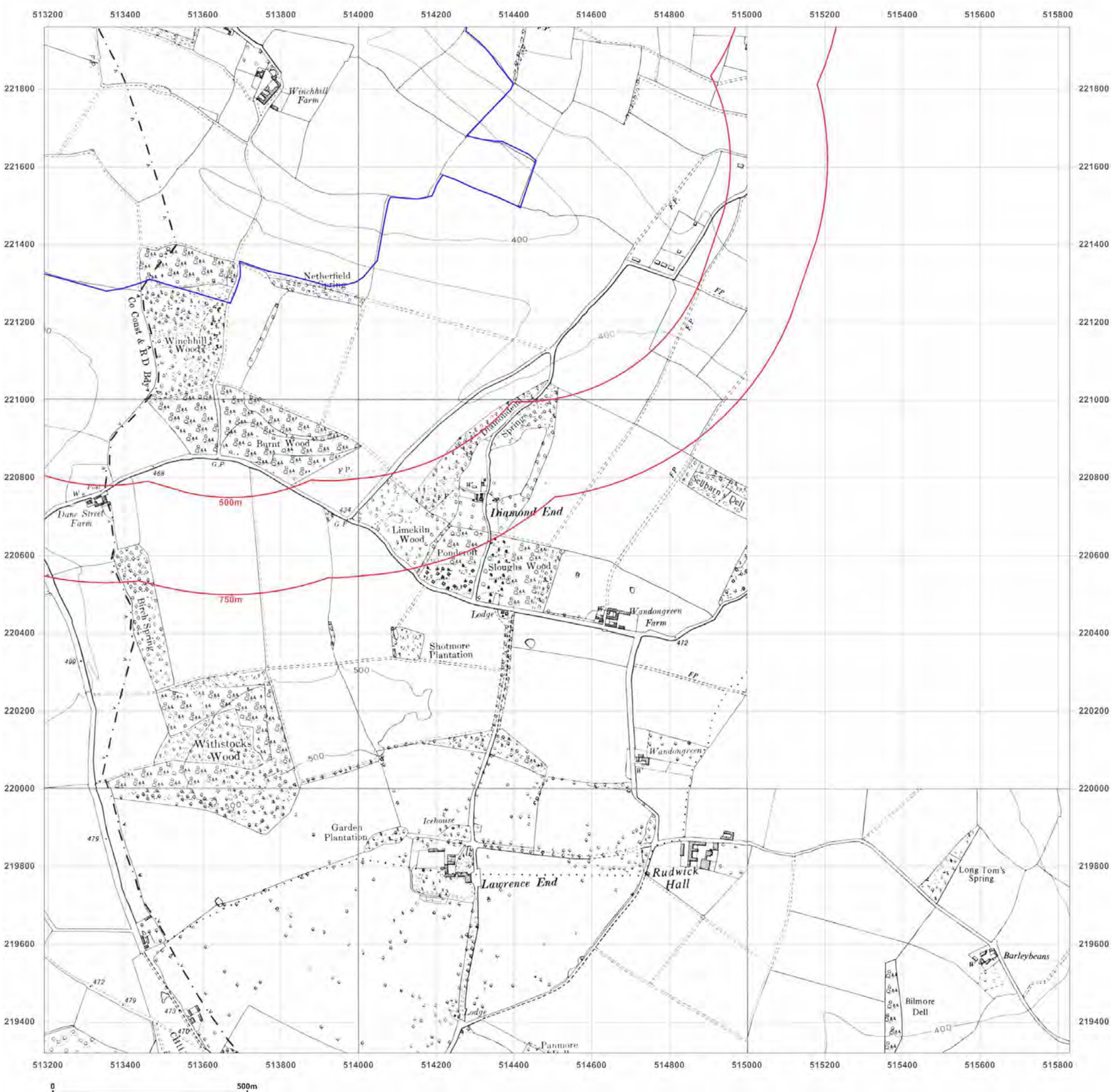

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: Provisional
Map date: **1960**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
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Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

Surveyed 1951
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

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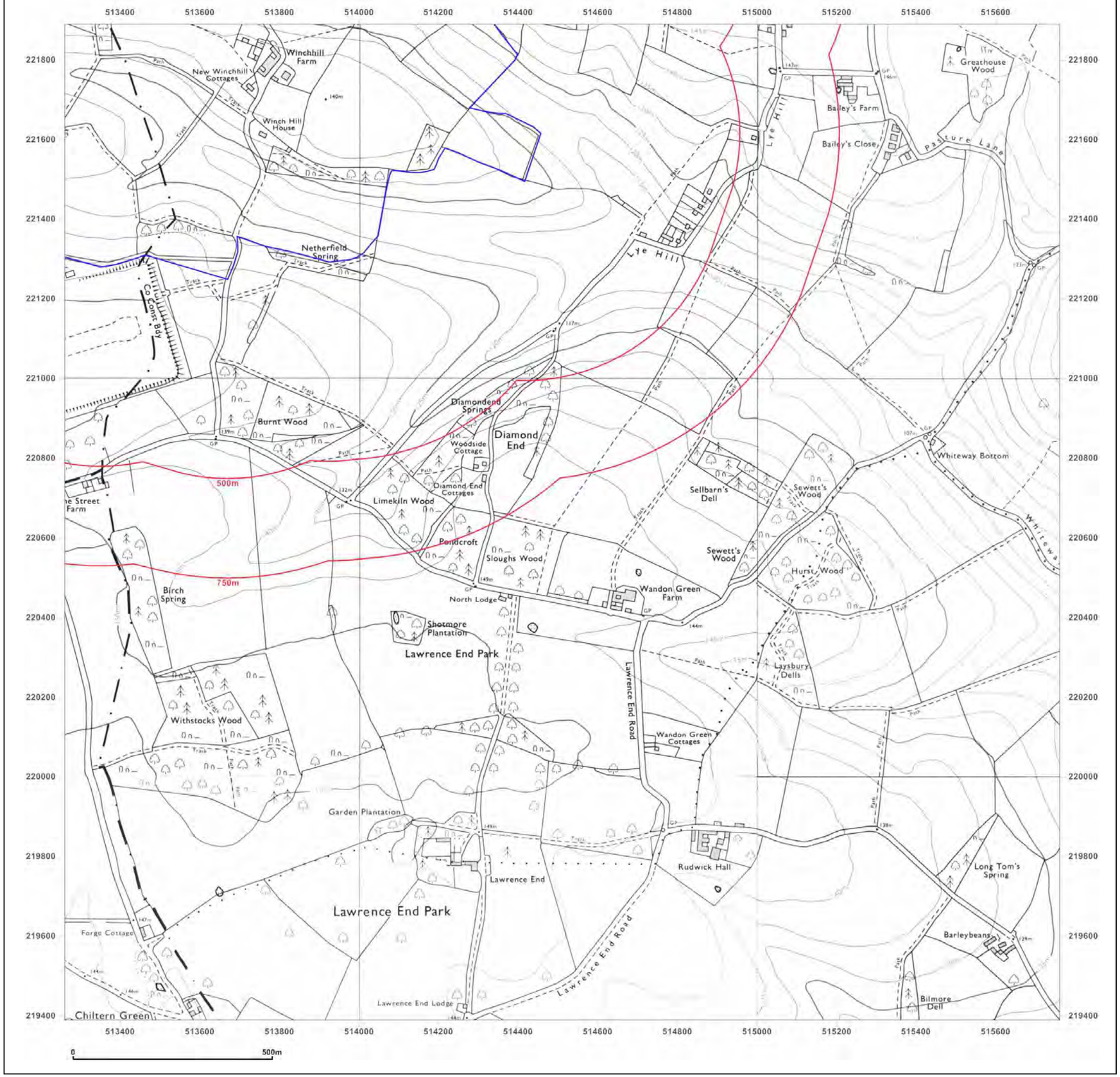

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: National Grid

Map date: **1974-1975**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1973
Revised 1975
Edition N/A
Copyright 1975
Levelled 1973

Surveyed 1972
Revised 1974
Edition N/A
Copyright 1975
Levelled 1973

Surveyed 1972
Revised 1974
Edition N/A
Copyright 1974
Levelled 1973

Surveyed 1972
Revised 1974
Edition N/A
Copyright 1975
Levelled 1973

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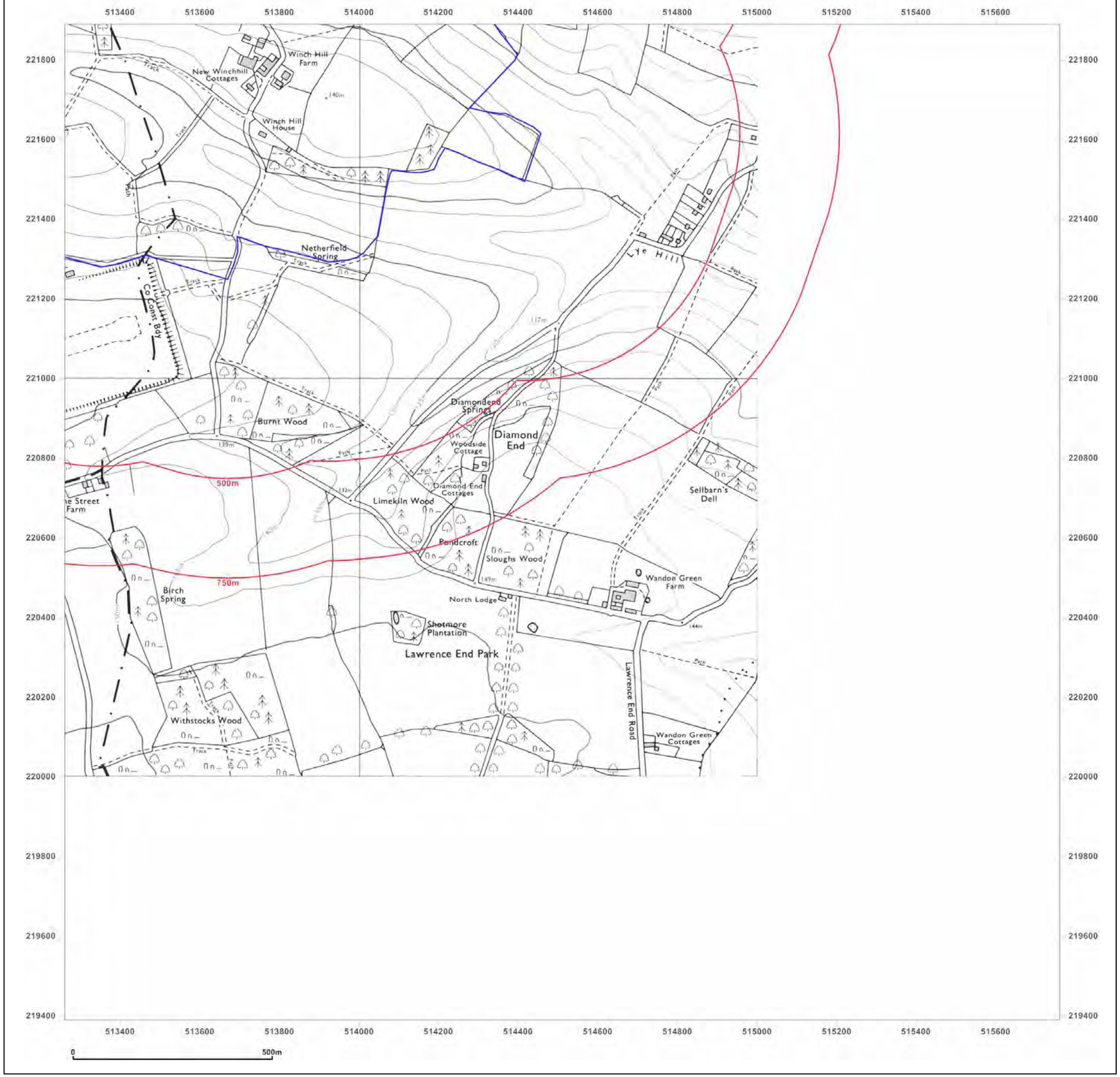

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Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: National Grid

Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
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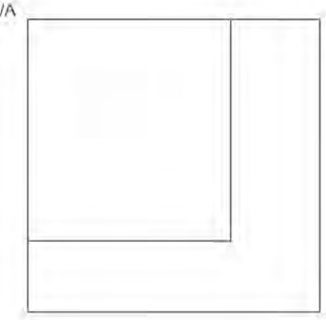
Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A



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Production date: 16 October 2018

Map legend available at:
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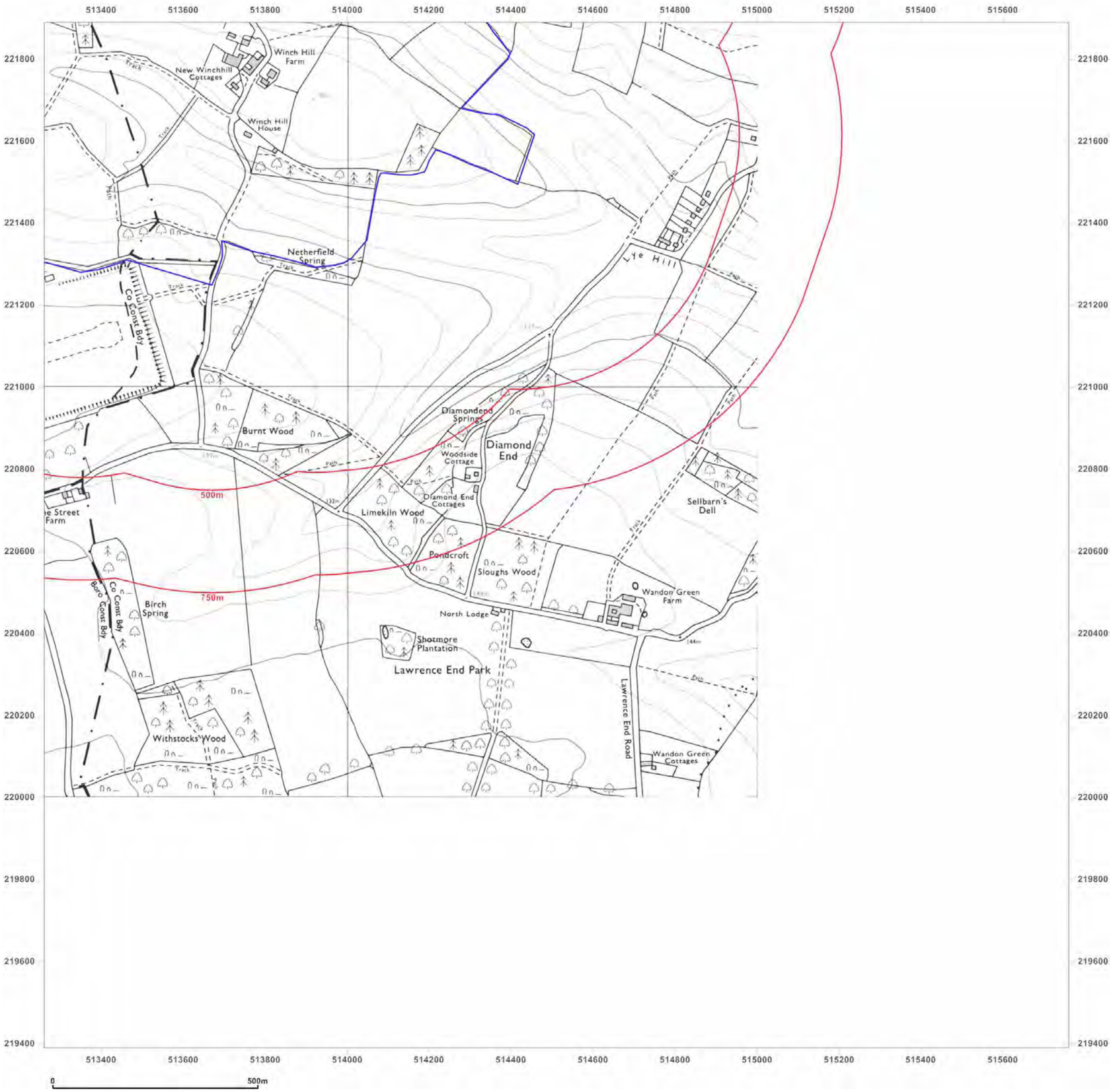

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: National Grid

Map date: **1991**

Scale: 1:10,000

Printed at: 1:10,000

N
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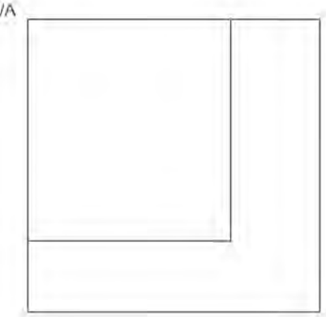
Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A



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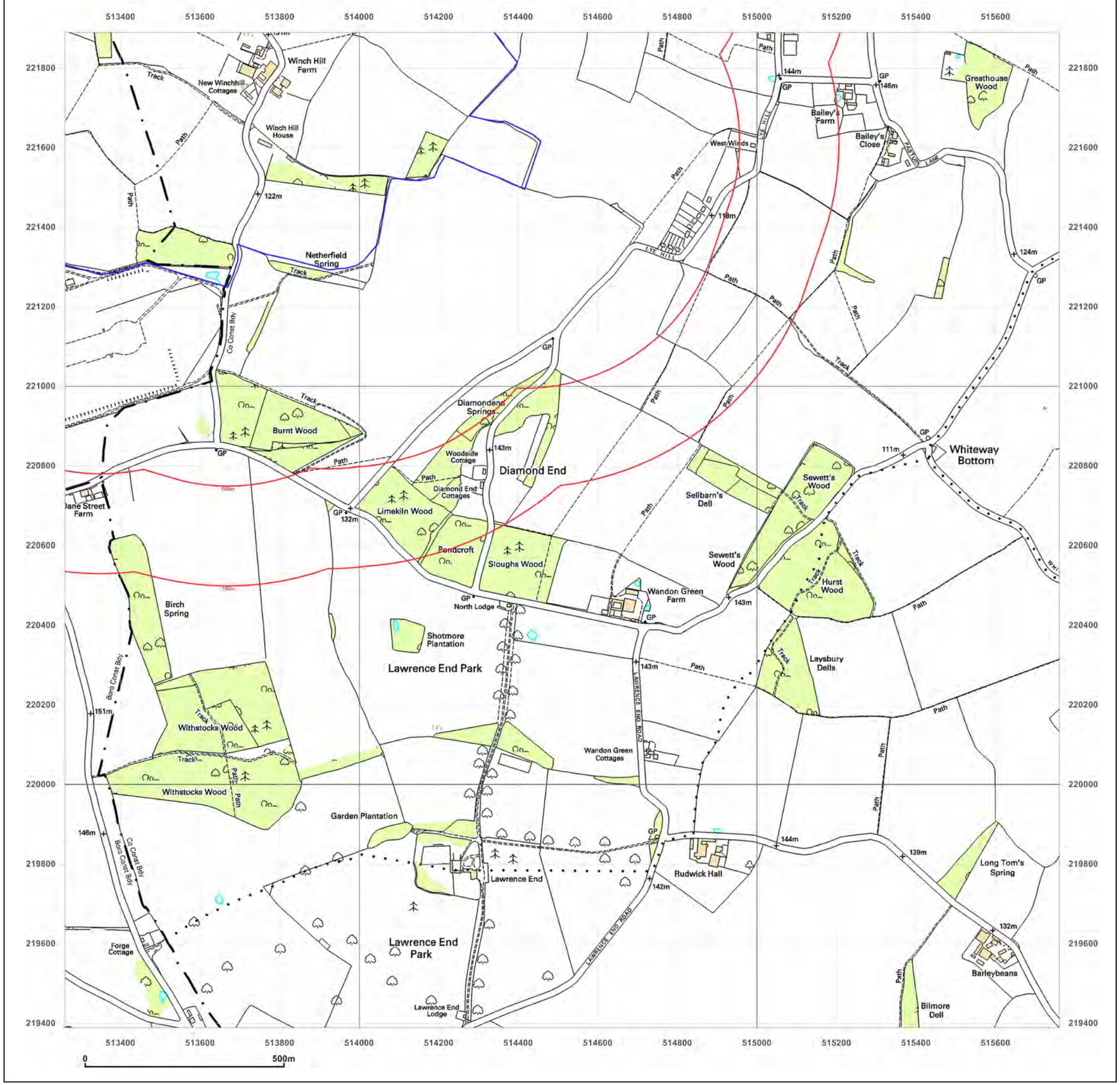

Groundsure INSIGHTS

Site Details:

513326.29595395754, 221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: 1:10,000 Raster

Map date: **2002**

Scale: 1:10,000

Printed at: 1:10,000

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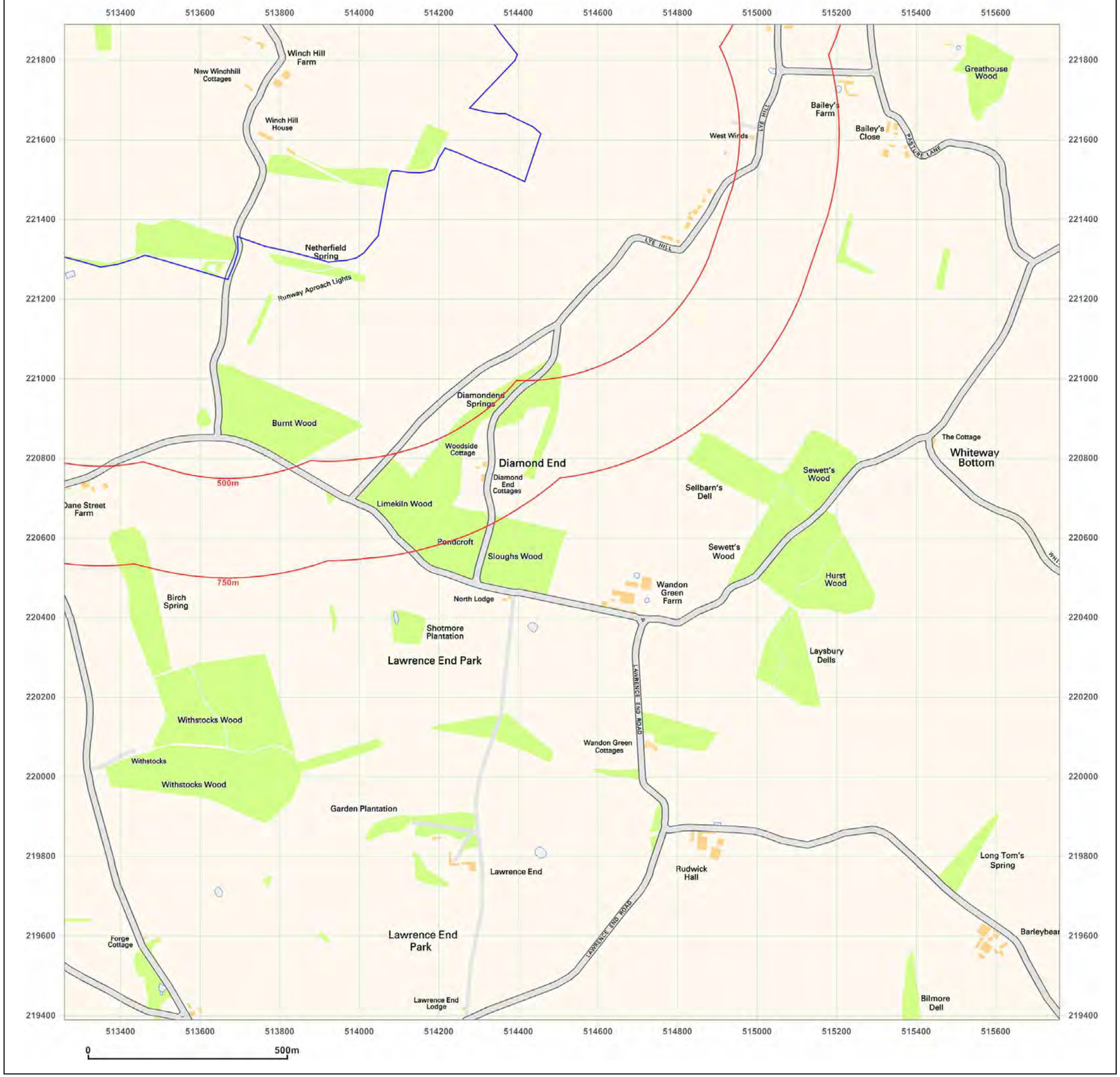

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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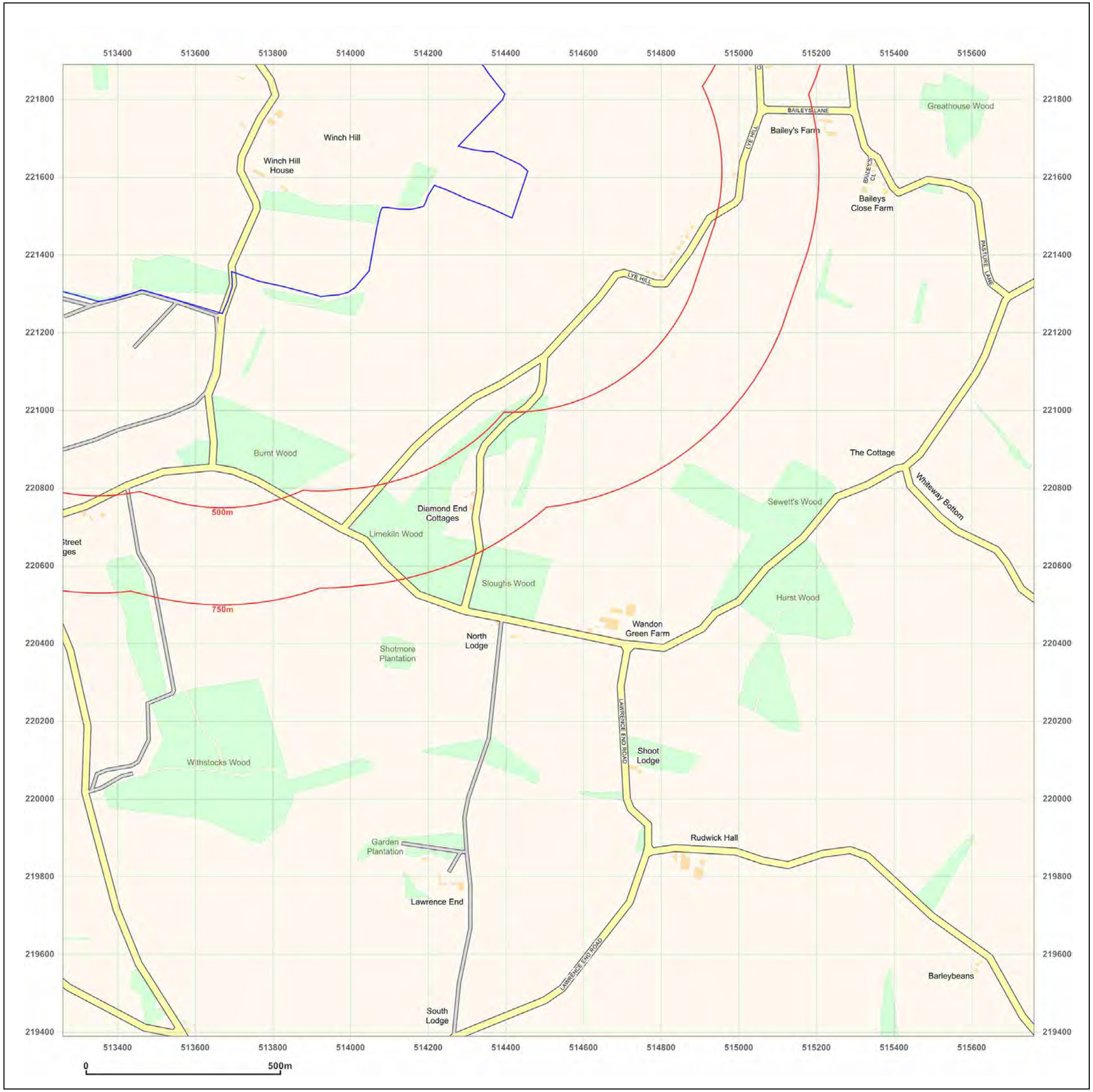

Groundsure INSIGHTS

Site Details:

513326.29595395754, 221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_1
Grid Ref: 514510, 220639

Map Name: National Grid

Map date: **2014**

Scale: 1:10,000

Printed at: 1:10,000

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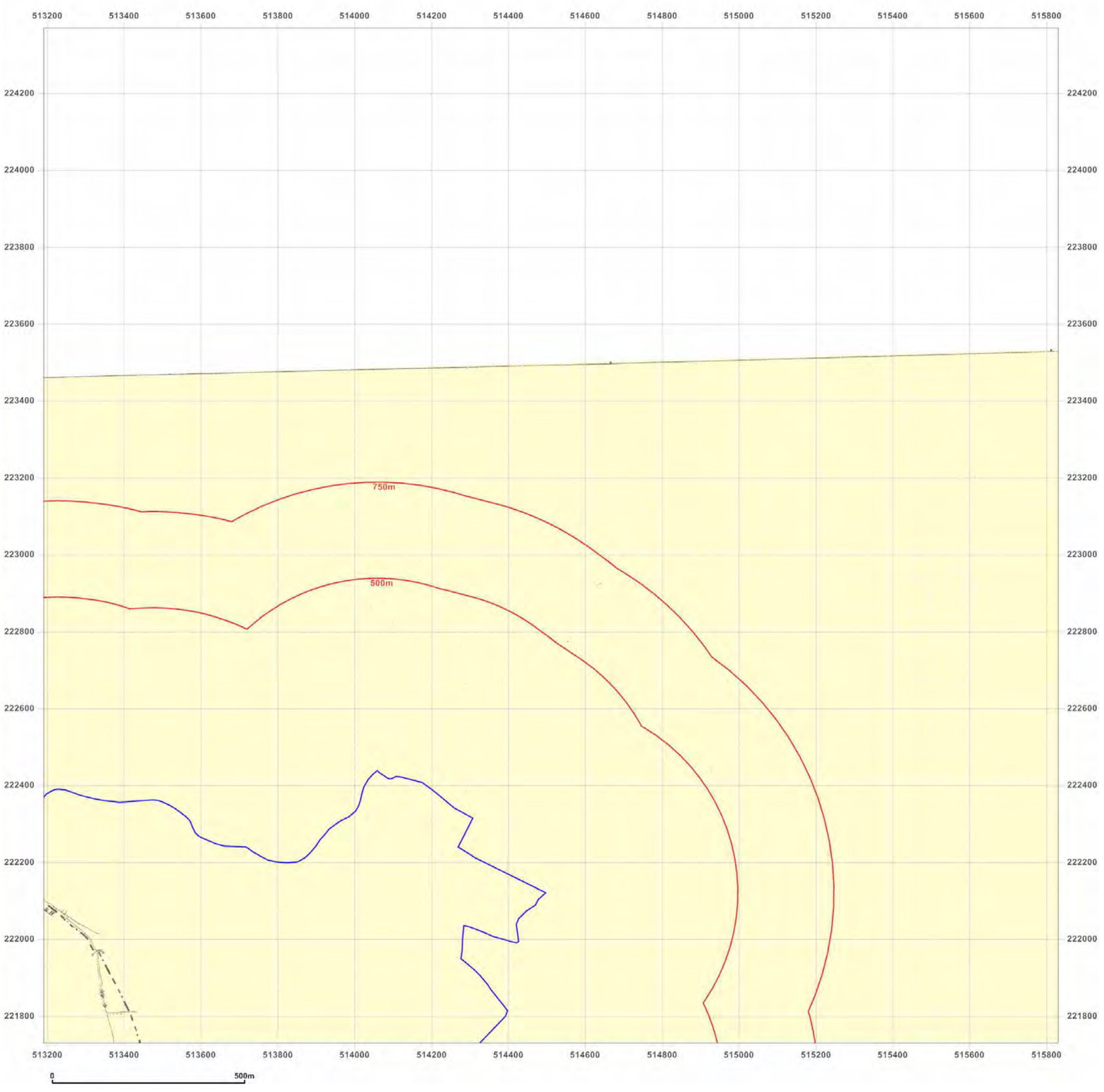

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: County Series

Map date: **1879**

Scale: 1:10,560

Printed at: 1:10,560

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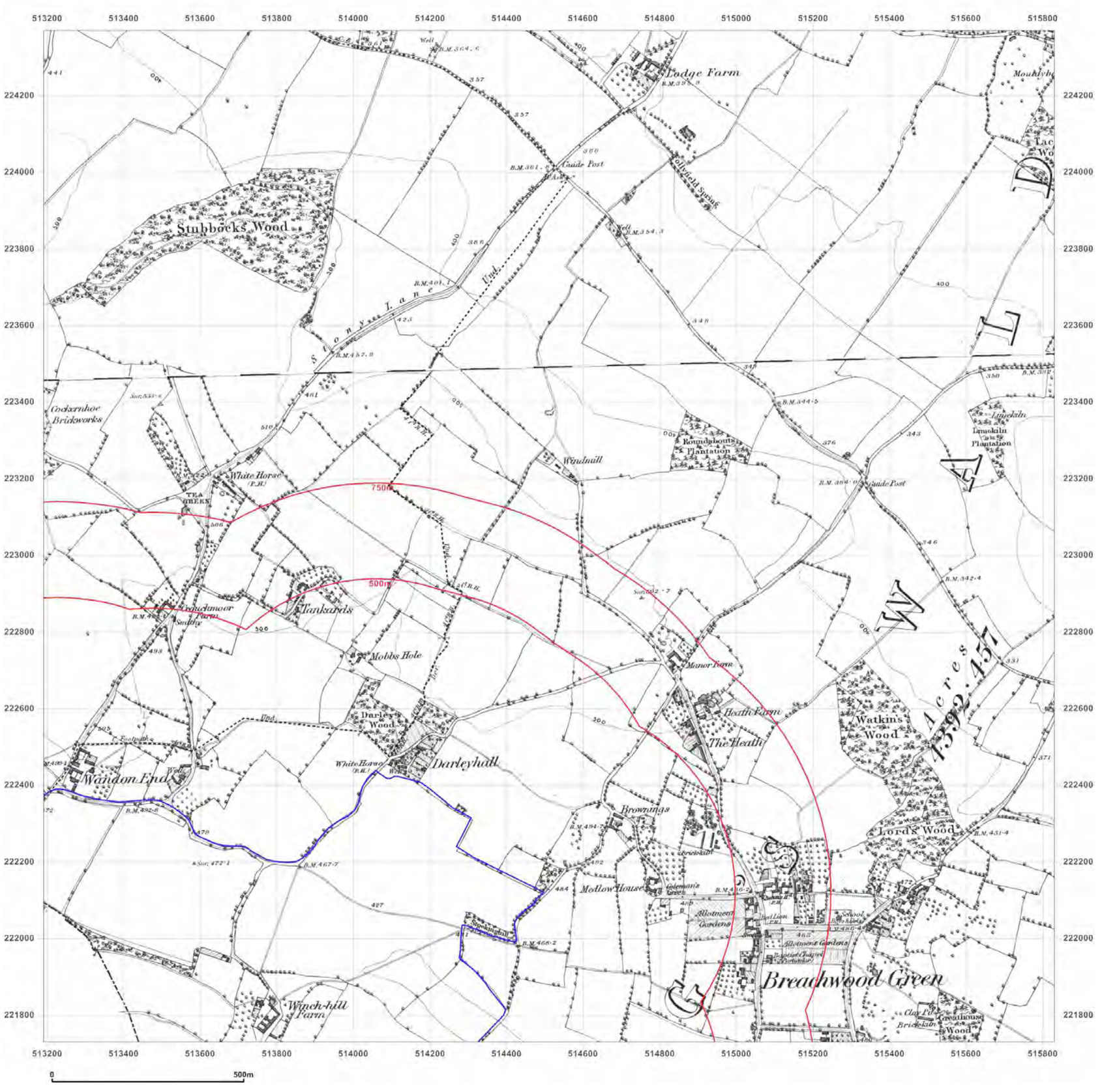

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: County Series

Map date: **1884**

Scale: 1:10,560

Printed at: 1:10,560

N
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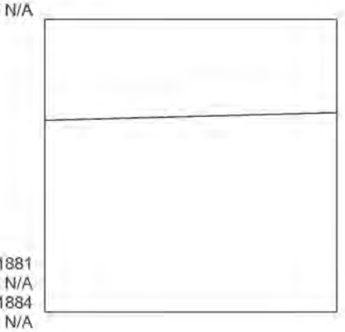
Surveyed 1880
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A



Surveyed 1881
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A

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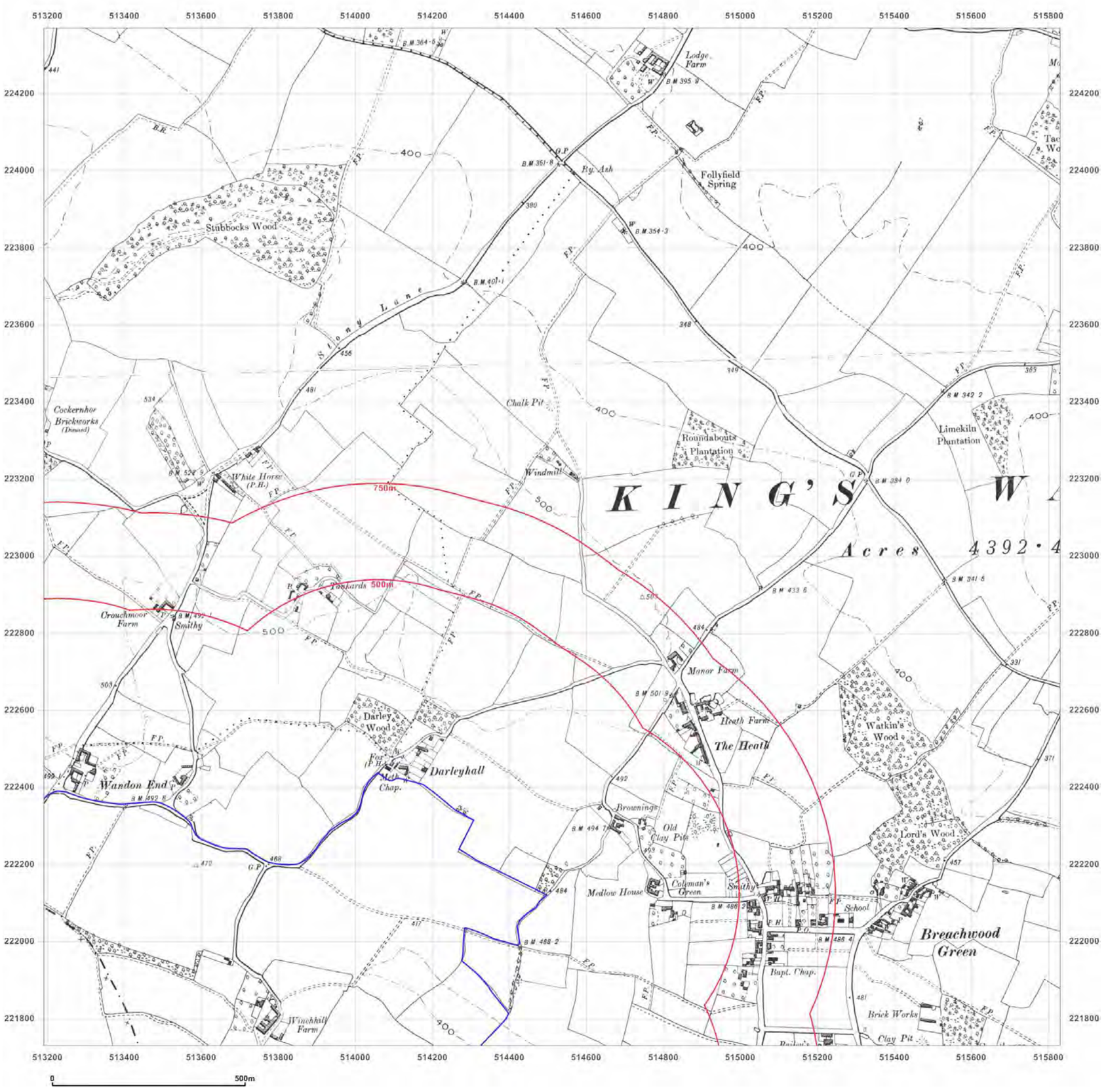

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: County Series

Map date: **1897-1899**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1881
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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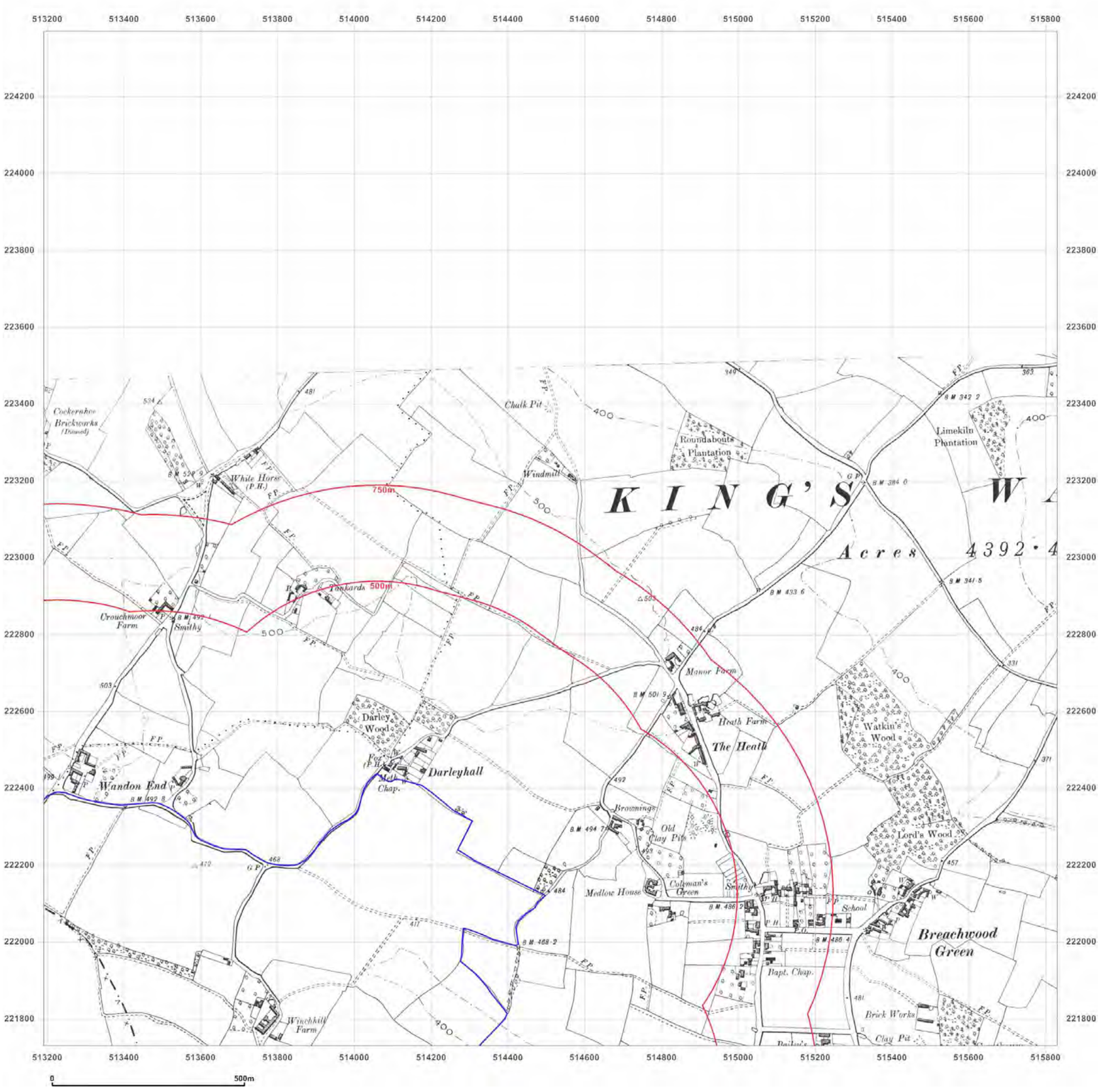

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1880
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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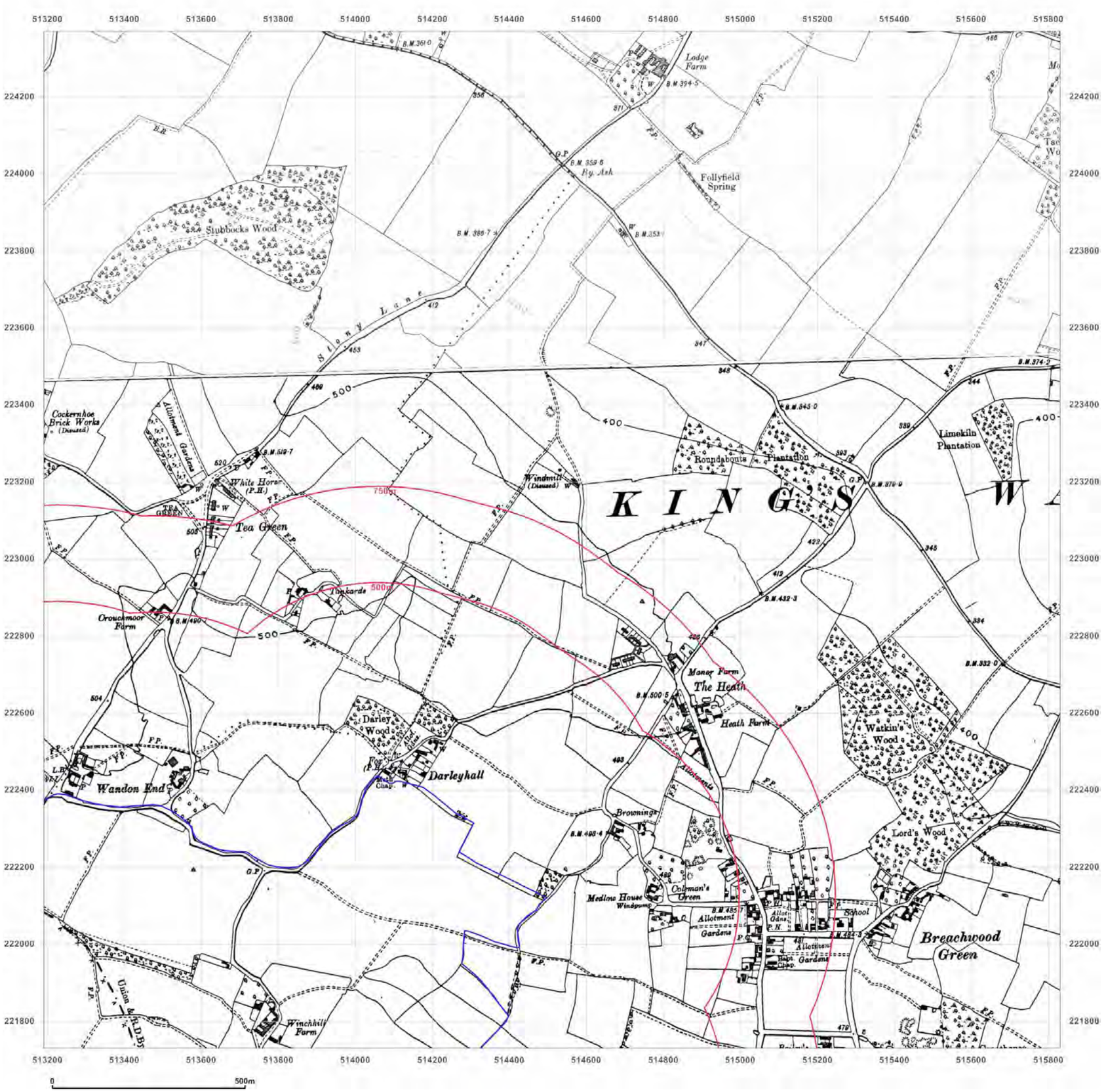

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: County Series

Map date: **1925**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1922
Edition 1925
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition 1925
Copyright N/A
Levelled N/A

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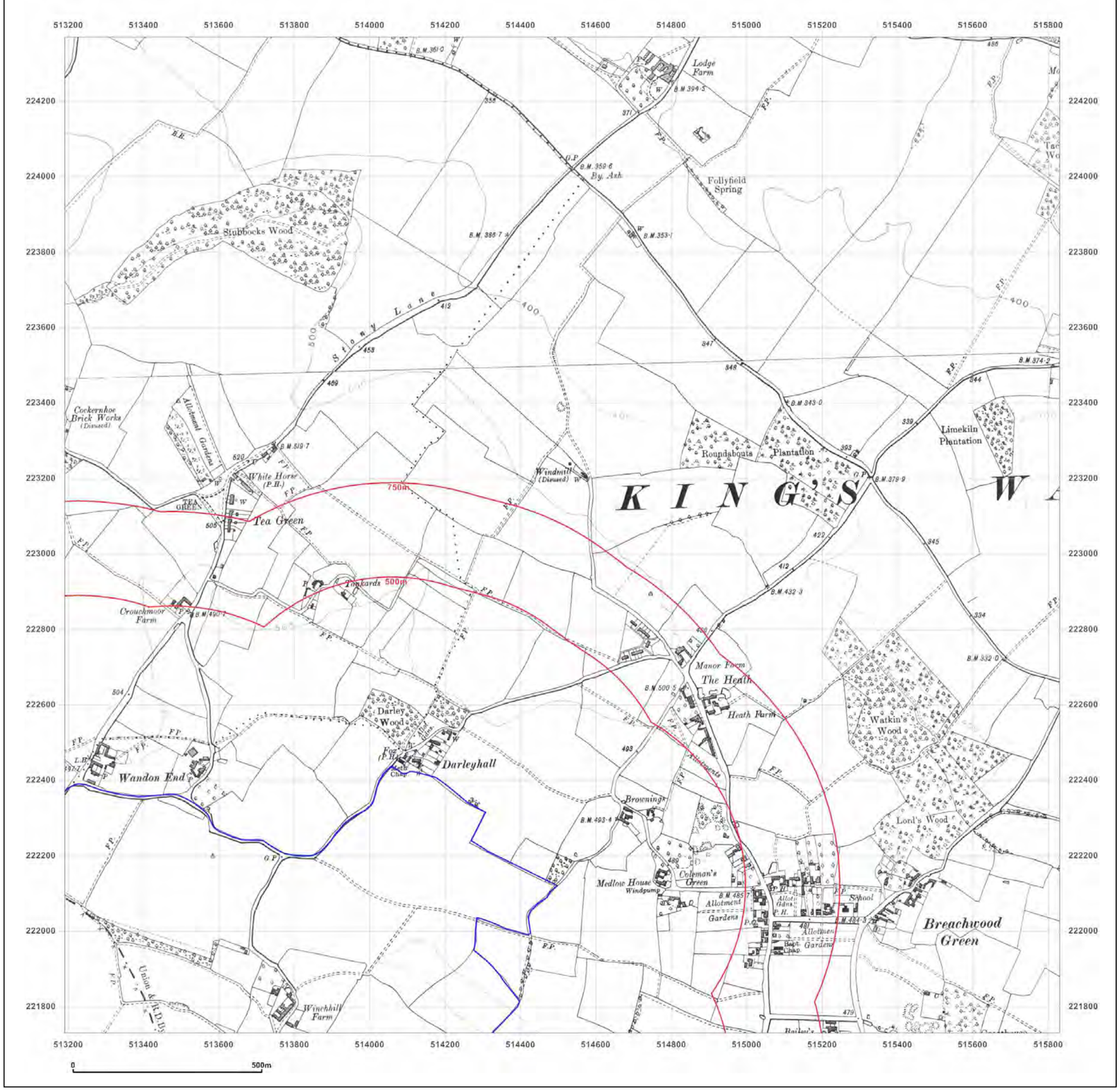

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: County Series

Map date: **1925**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1922
Edition N/A
Copyright 1925
Levelled N/A

Surveyed 1878
Revised 1922
Edition 1925
Copyright N/A
Levelled N/A

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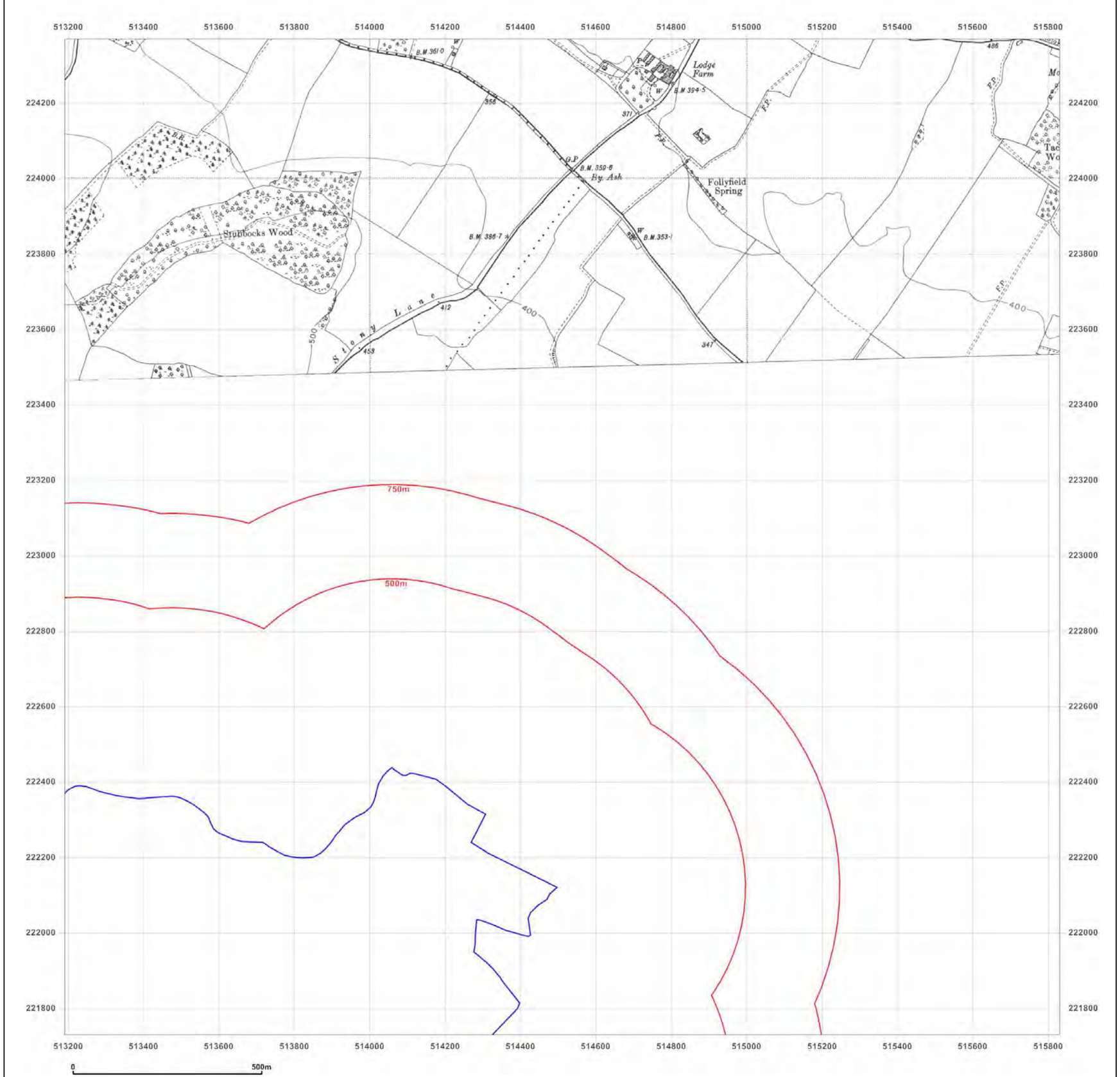

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

N
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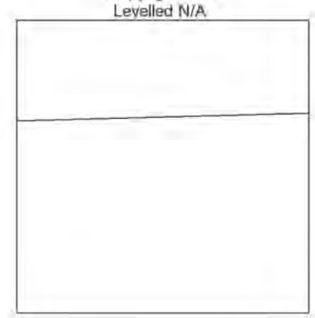
S

Surveyed 1879
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A



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Production date: 16 October 2018

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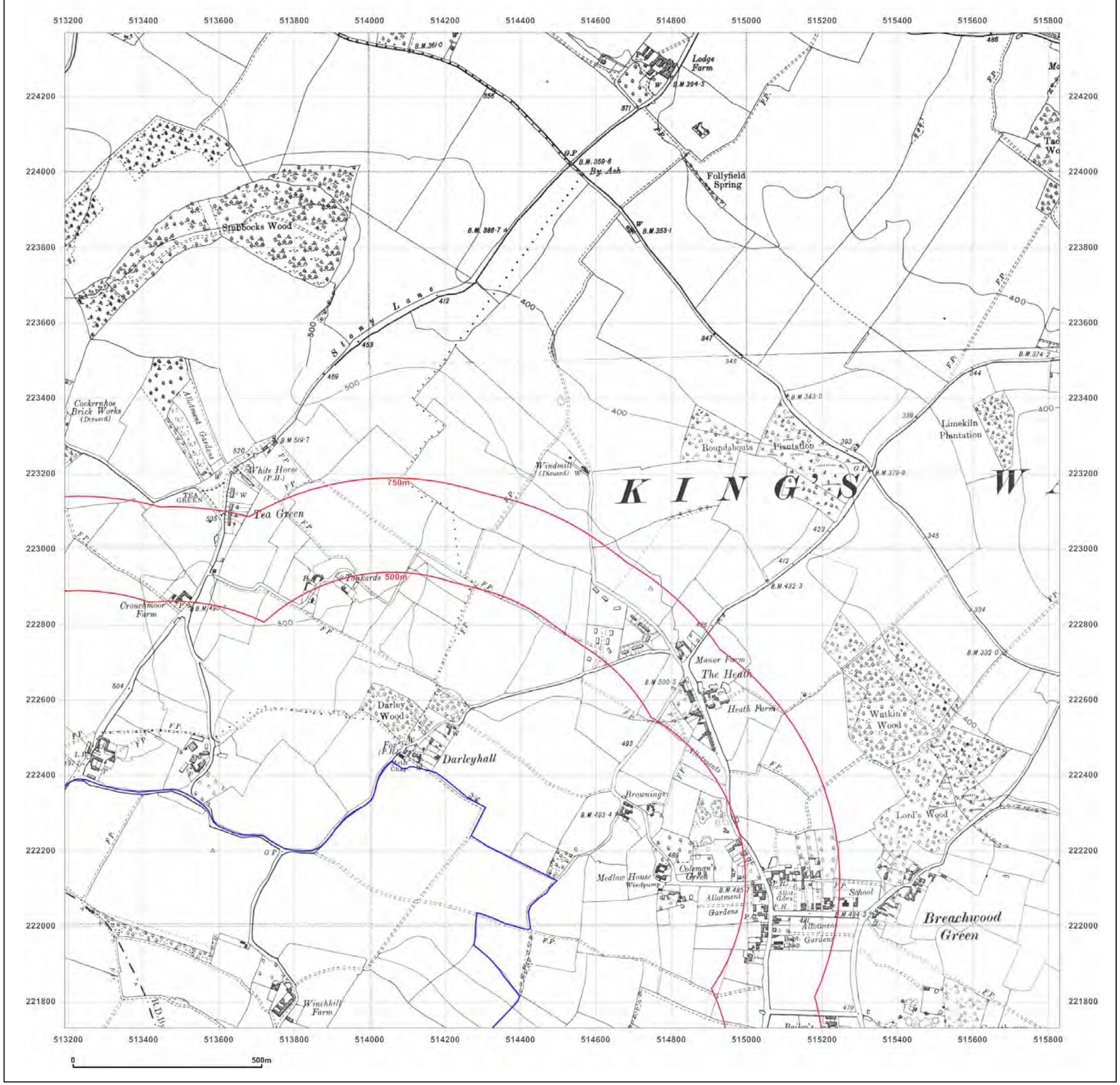

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1947
Edition N/A
Copyright N/A
Levelled 1922

Surveyed 1878
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

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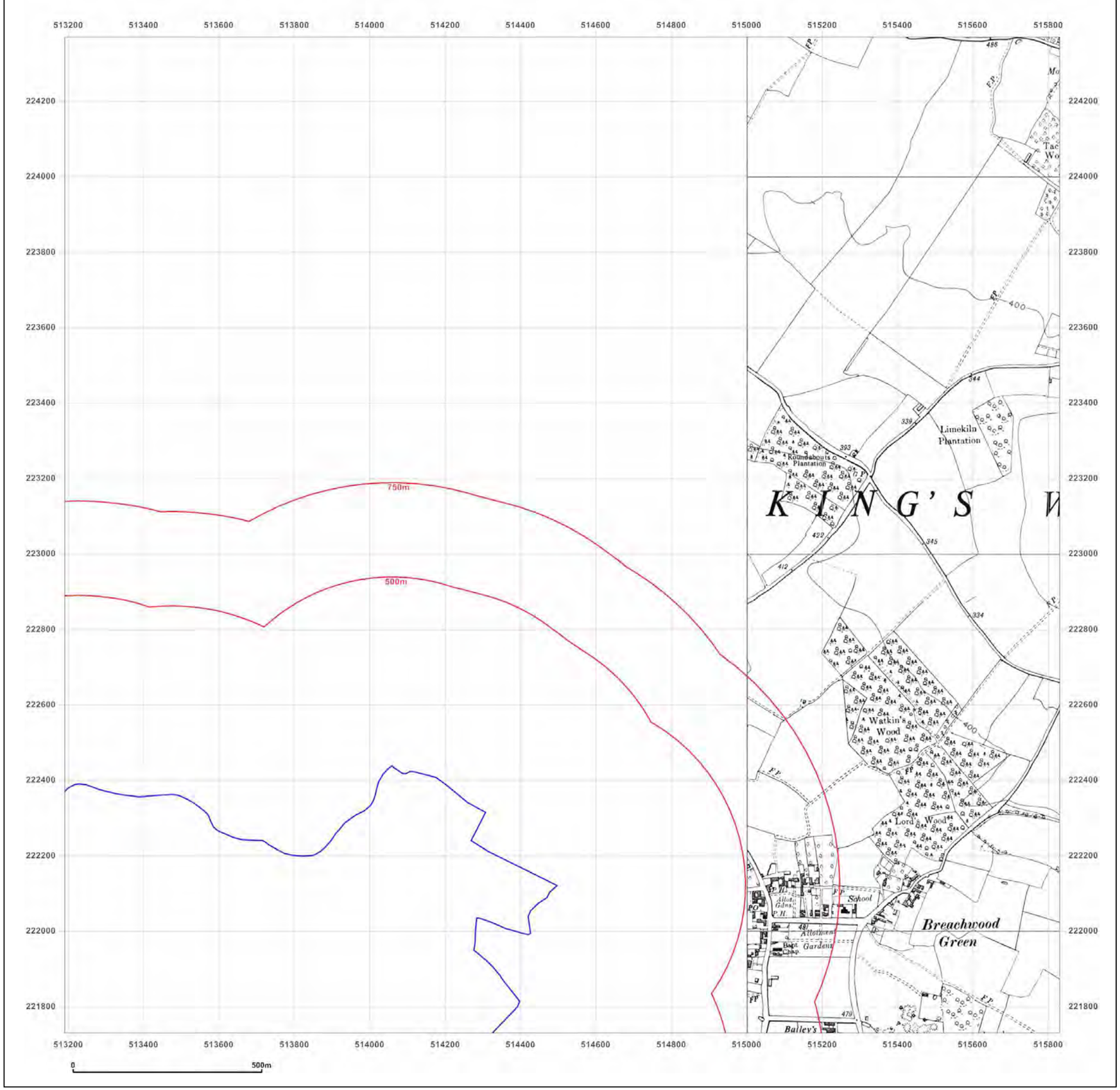

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: Provisional
Map date: **1951**
Scale: 1:10,560
Printed at: 1:10,560

N
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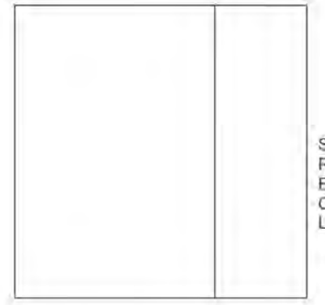

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Production date: 16 October 2018

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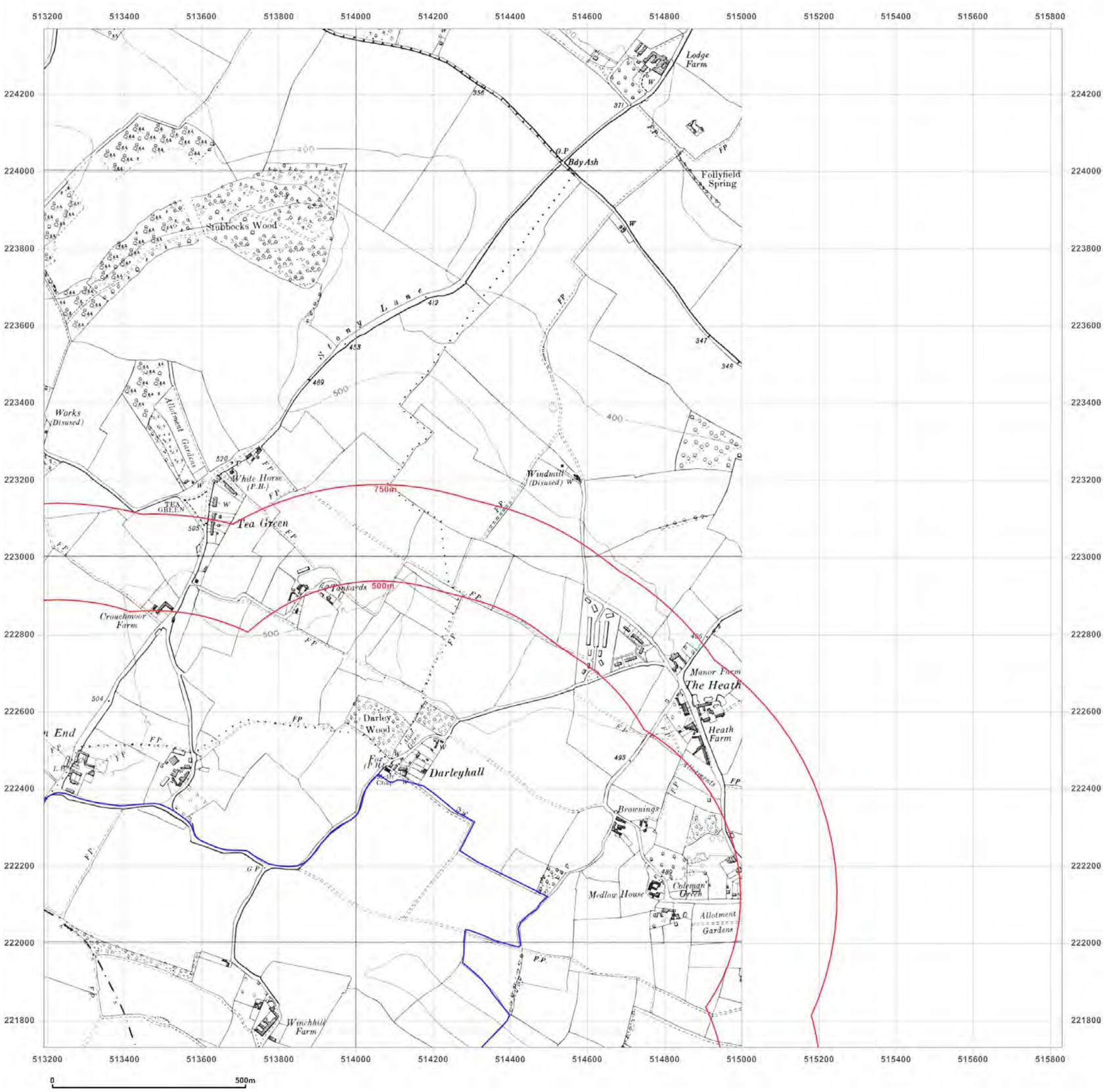

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: Provisional
Map date: **1960**
Scale: 1:10,560
Printed at: 1:10,560

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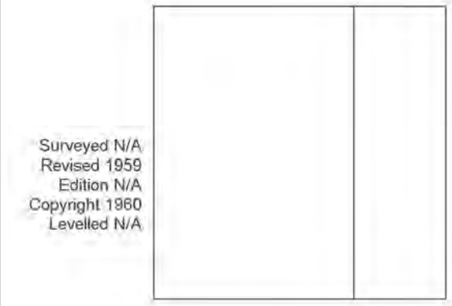

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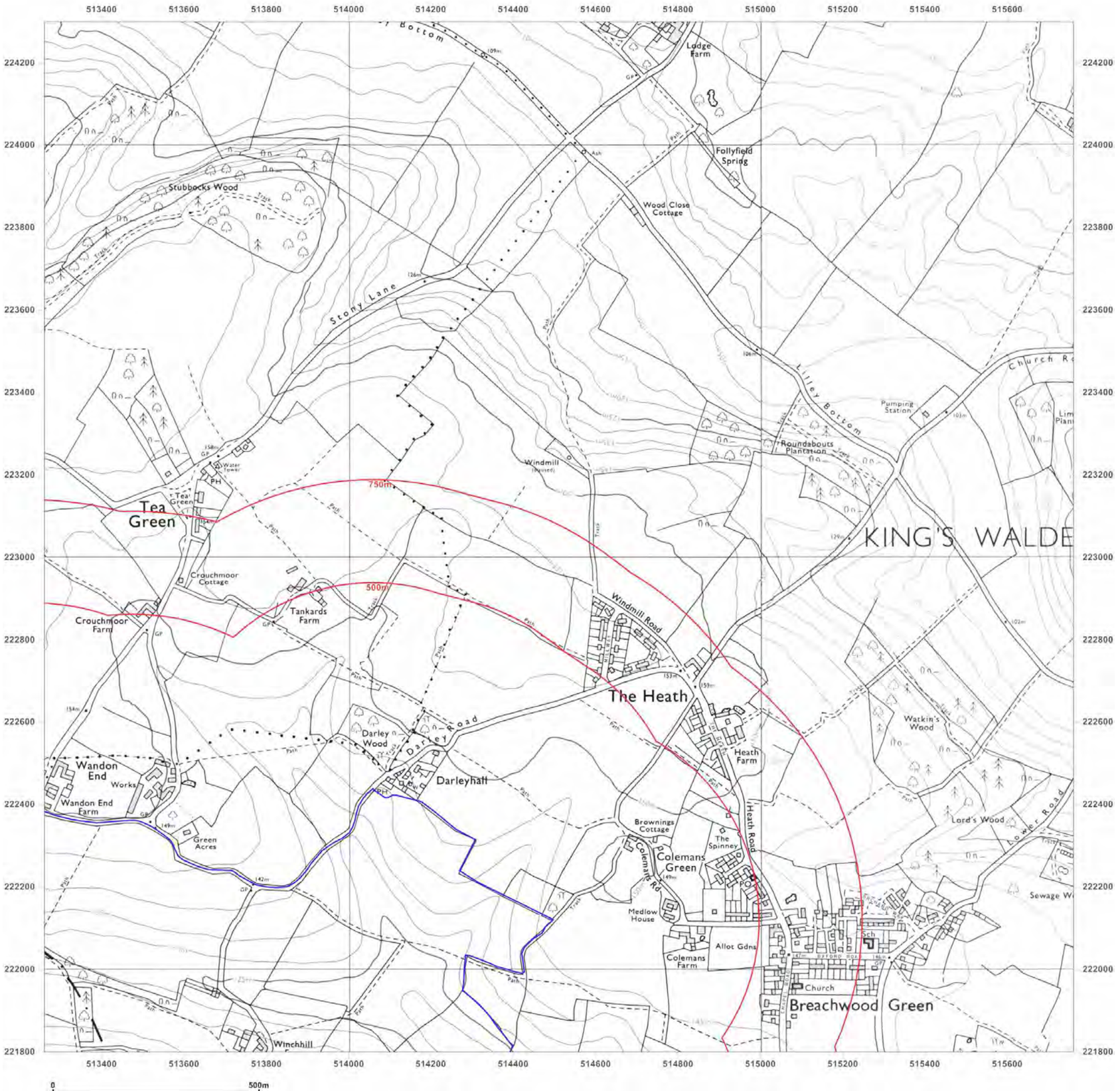

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: National Grid

Map date: **1975**

Scale: 1:10,000

Printed at: 1:10,000

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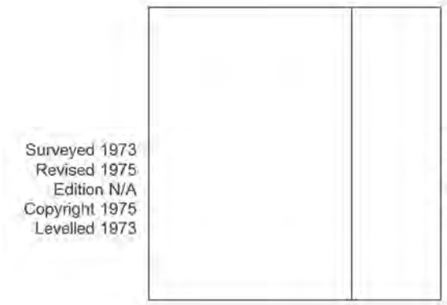
S



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Production date: 16 October 2018

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Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: National Grid

Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
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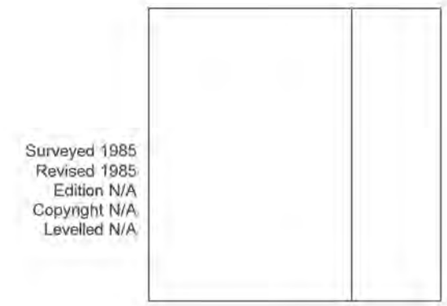

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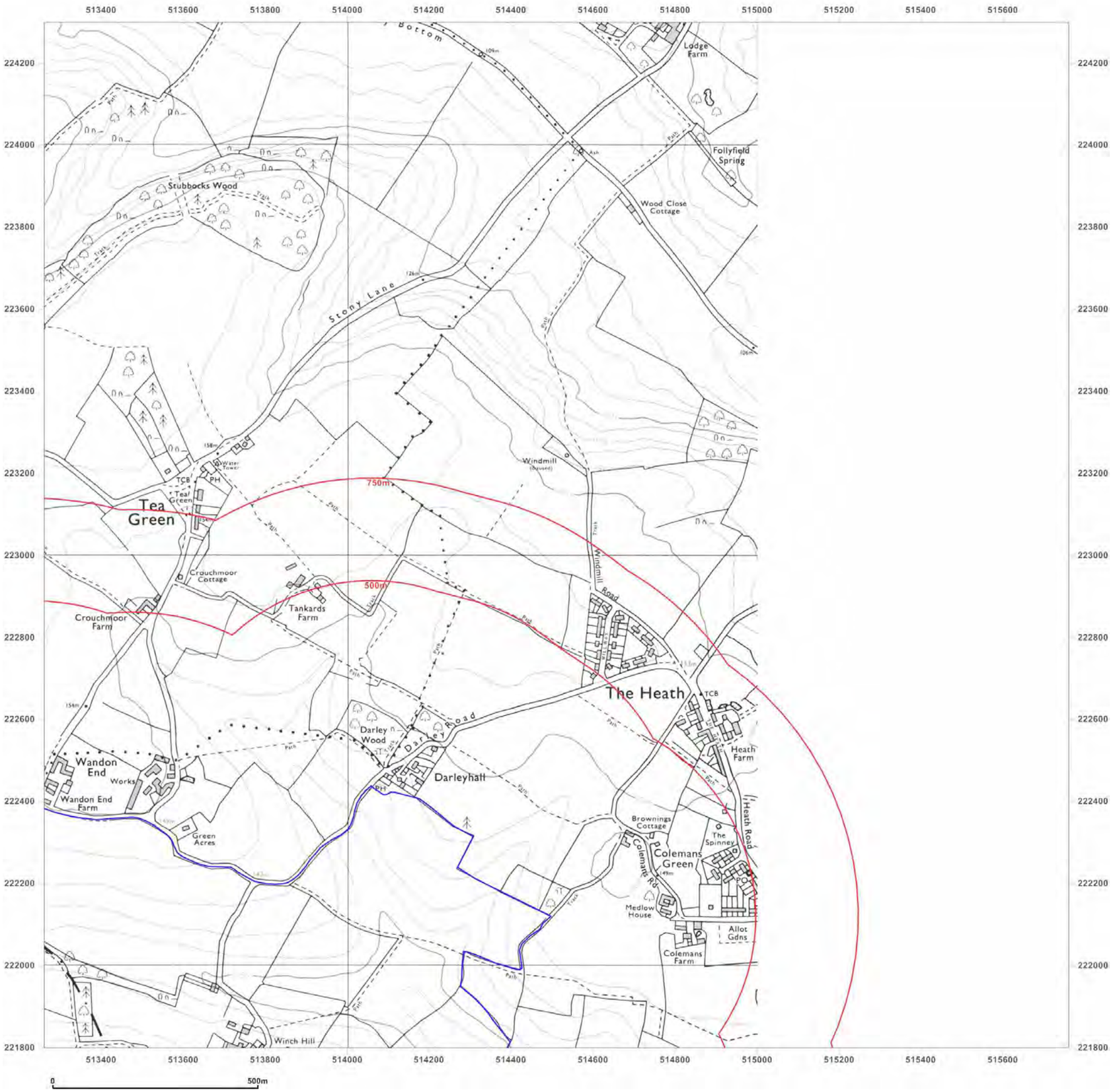

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: National Grid

Map date: **1991**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

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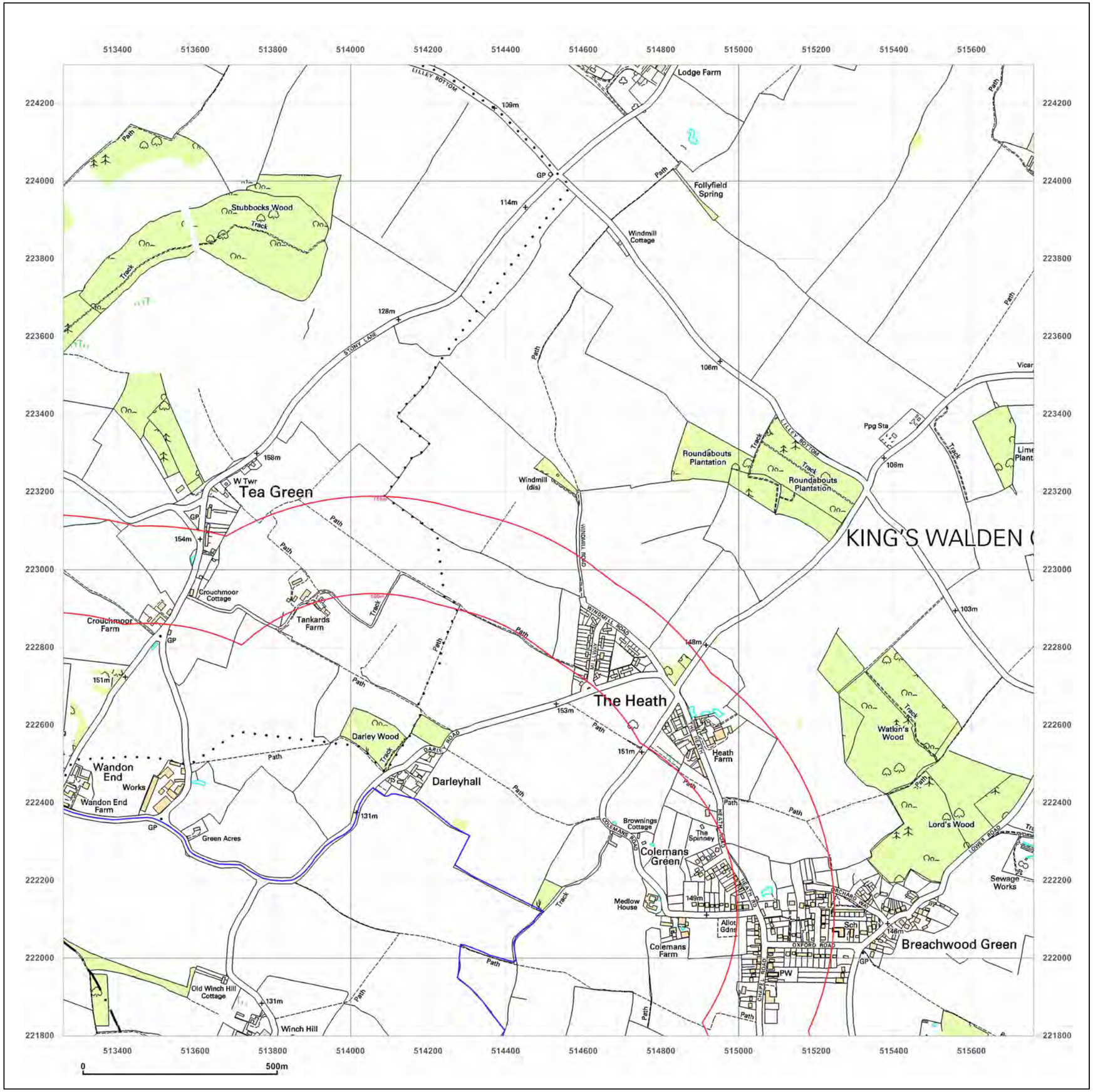

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: 1:10,000 Raster
Map date: **2002**
Scale: 1:10,000
Printed at: 1:10,000

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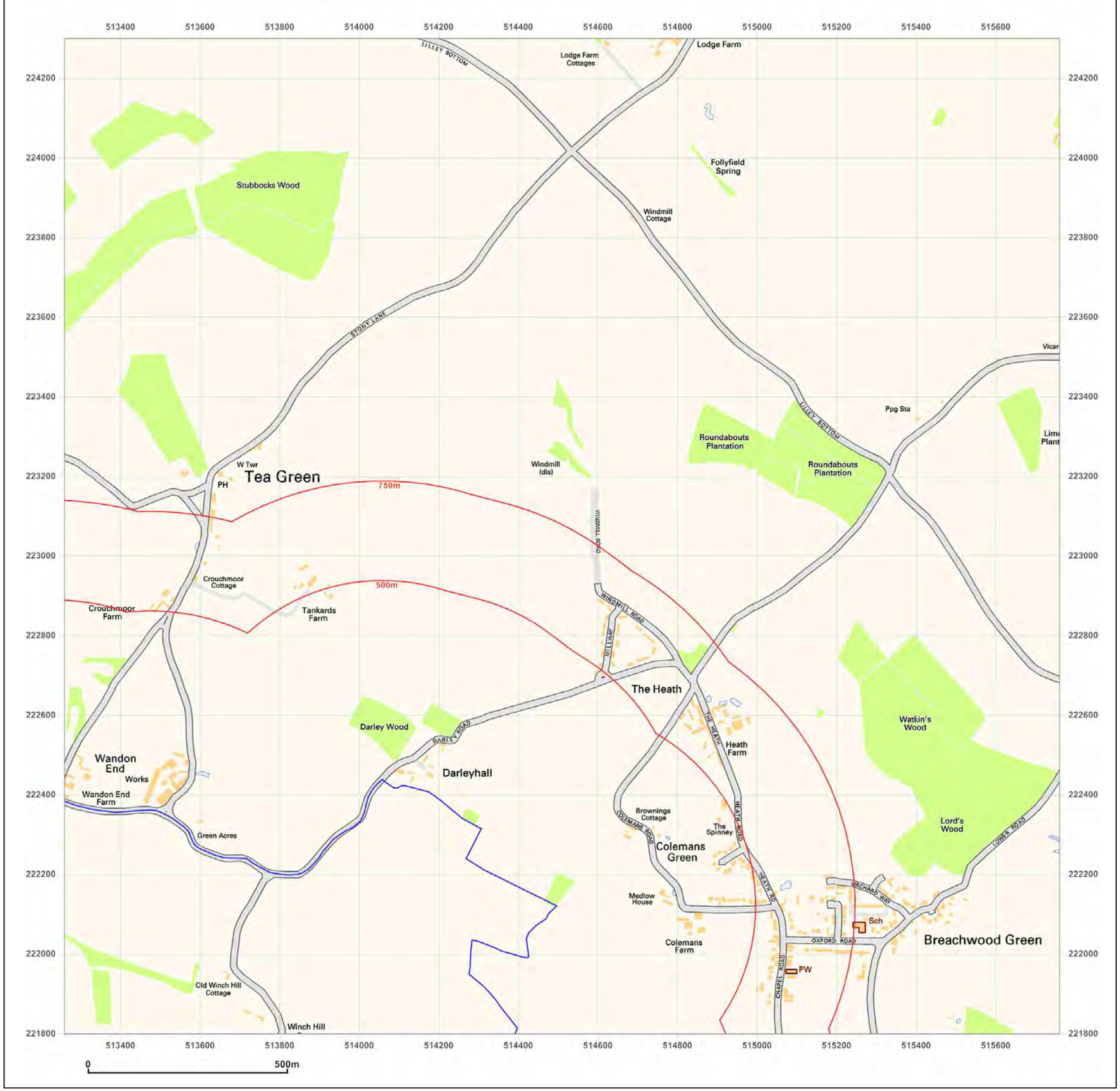

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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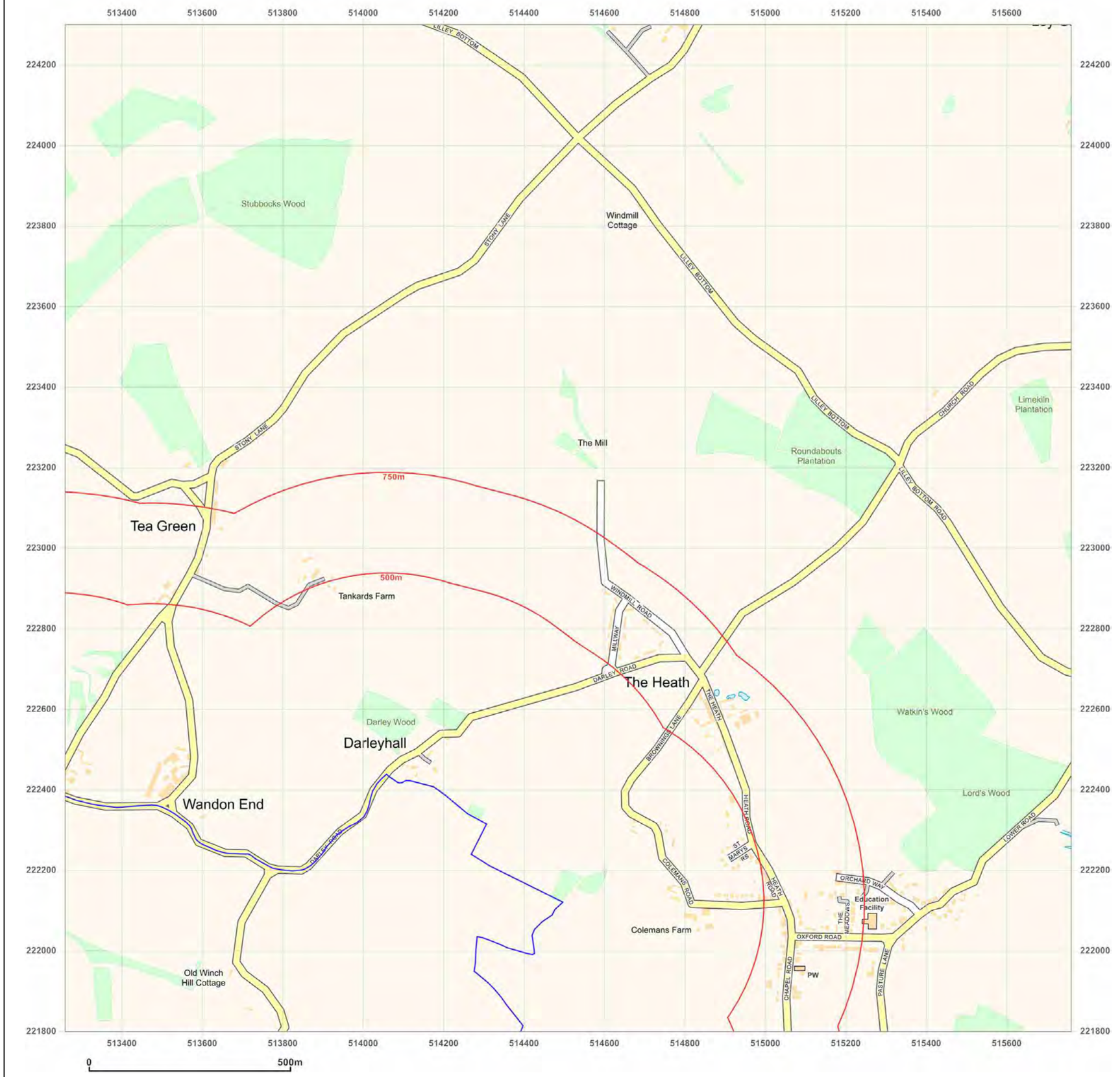

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Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_SS_2_2
Grid Ref: 514510, 223049

Map Name: National Grid

Map date: **2014**

Scale: 1:10,000

Printed at: 1:10,000

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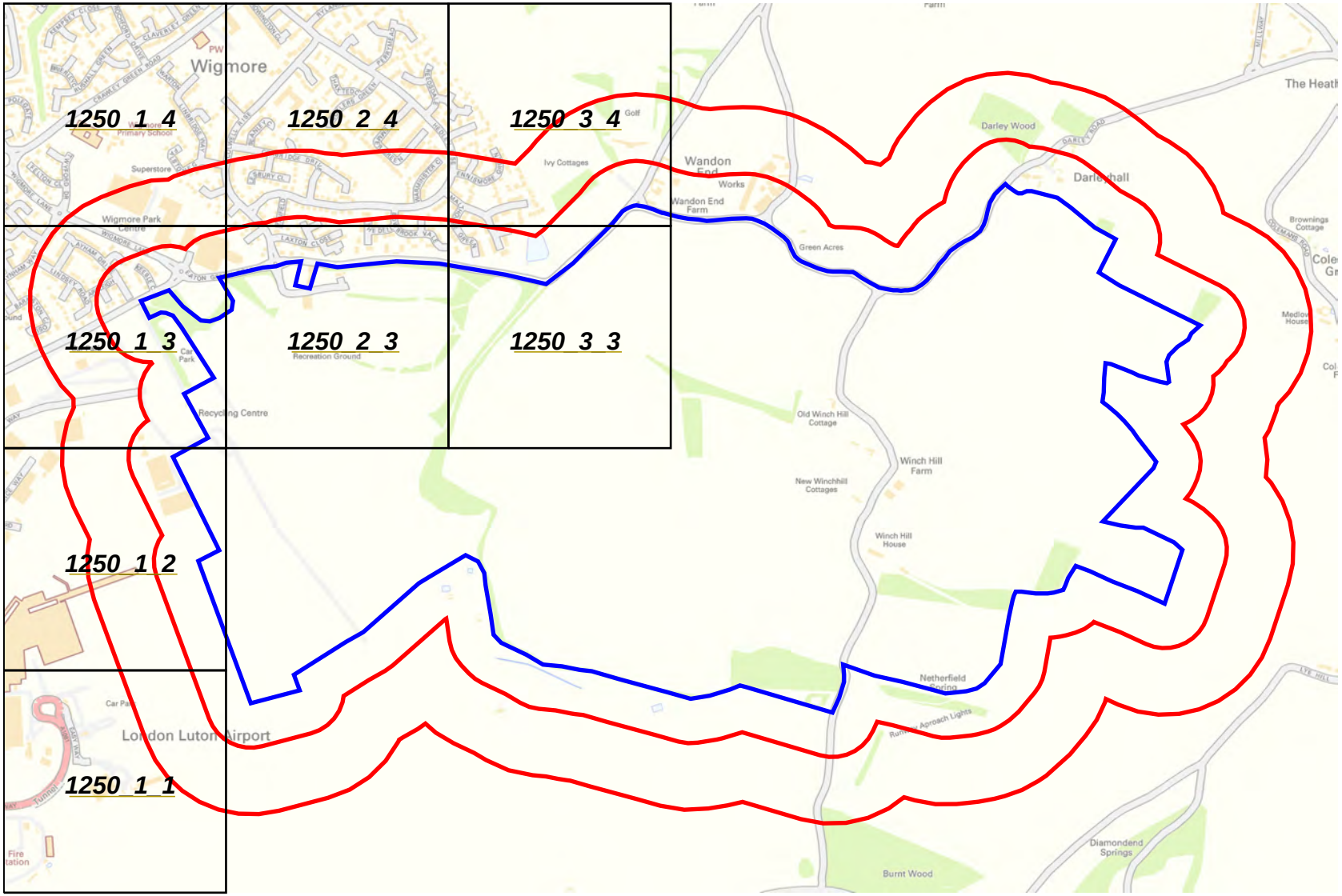

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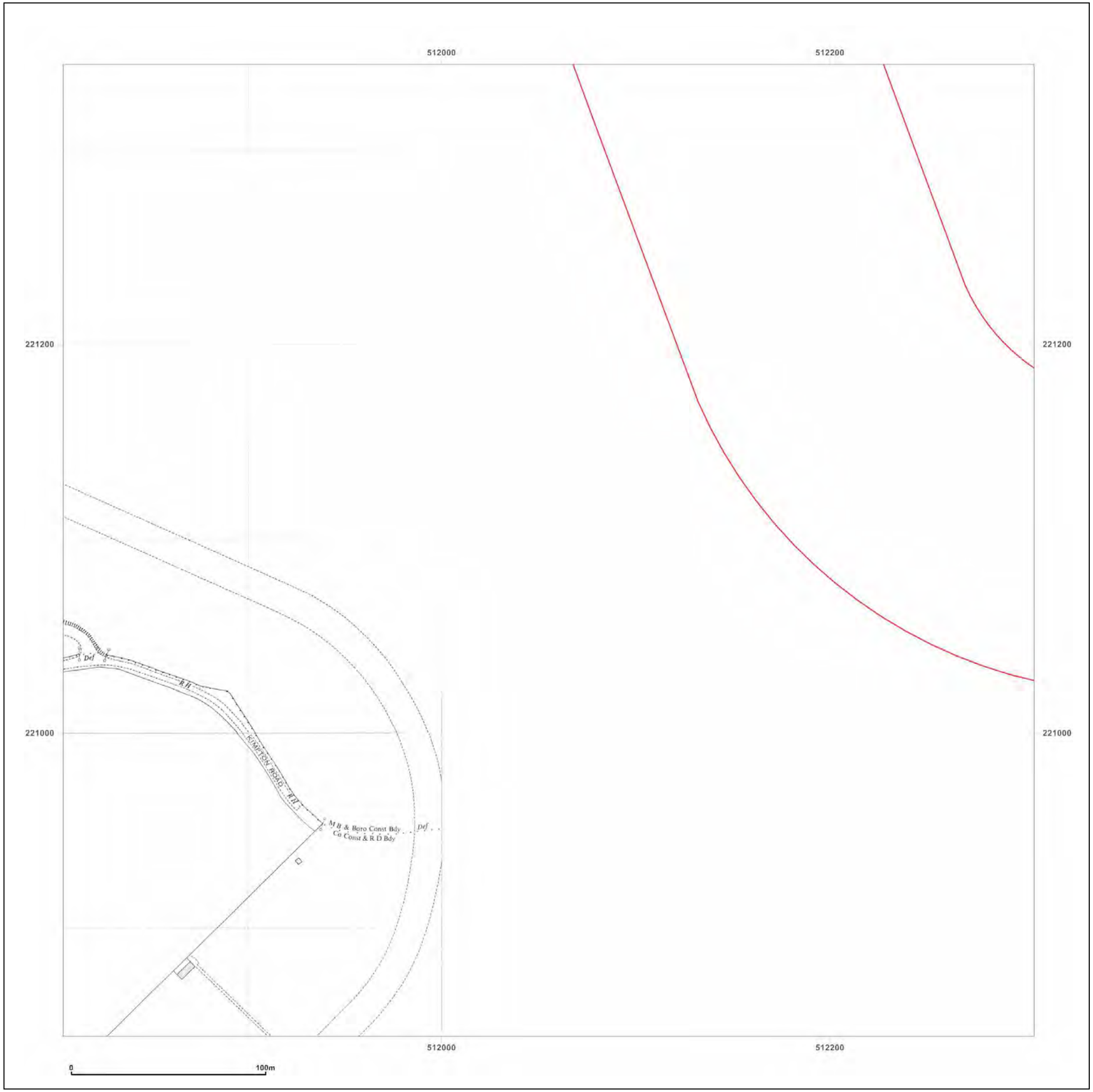
1:1250 Scale Grid Index



Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_1
Grid Ref: 512055, 221094

Map Name: National Grid

Map date: **1962-1963**

Scale: 1:1,250

Printed at: 1:2,000

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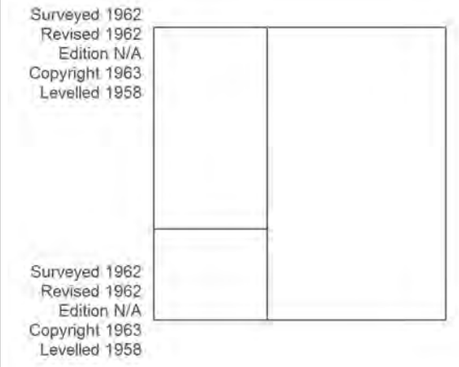

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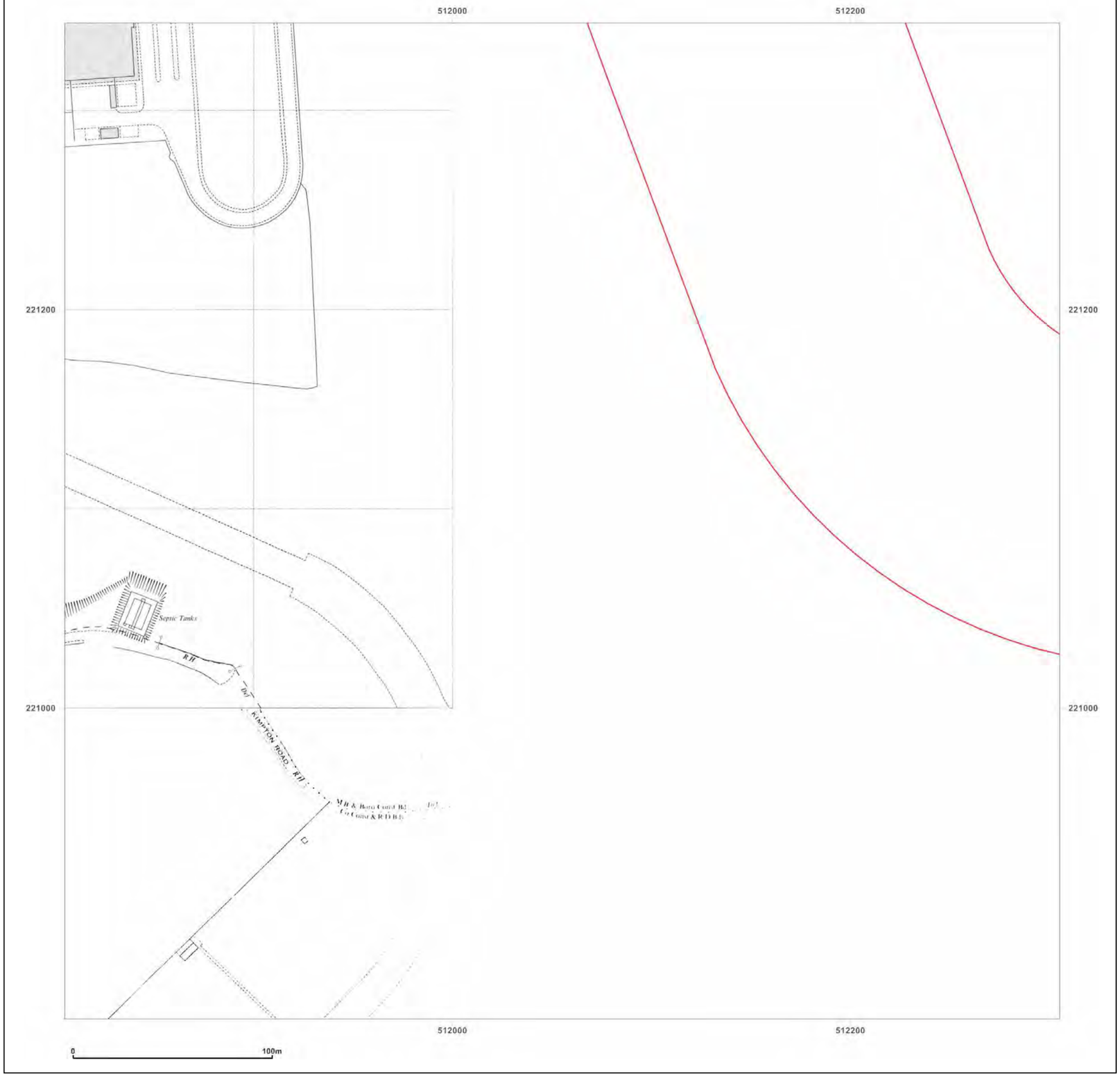

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_1
Grid Ref: 512055, 221094

Map Name: National Grid

Map date: **1963-1968**

Scale: 1:1,250

Printed at: 1:2,000

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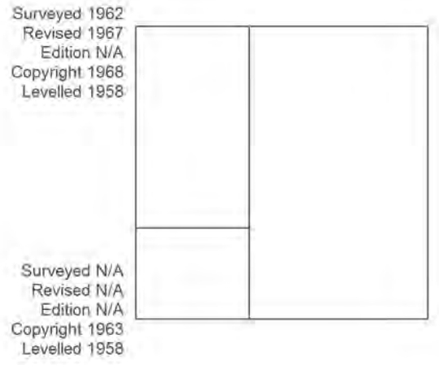

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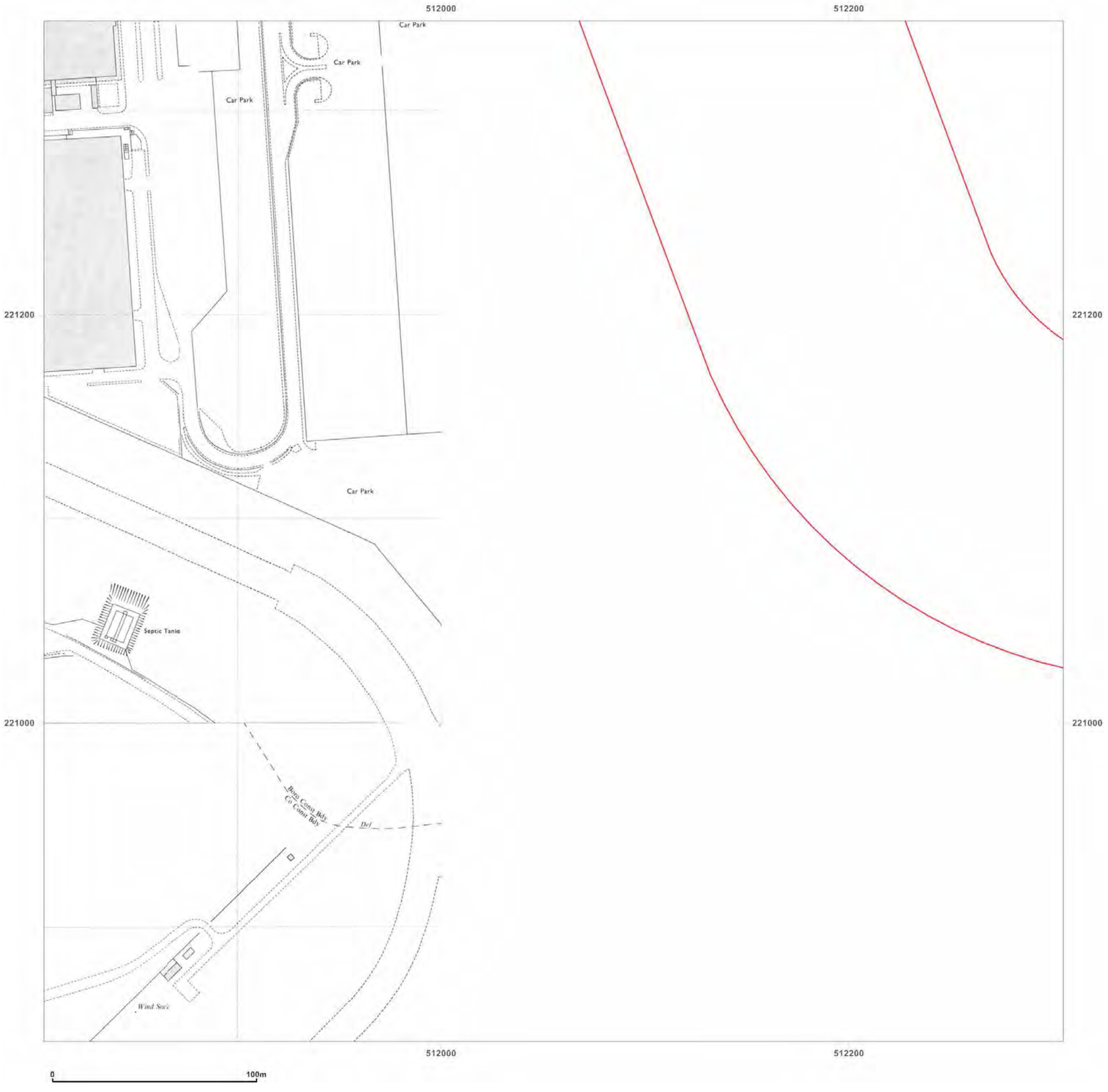

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_1
Grid Ref: 512055, 221094

Map Name: National Grid

Map date: **1968-1973**

Scale: 1:1,250

Printed at: 1:2,000

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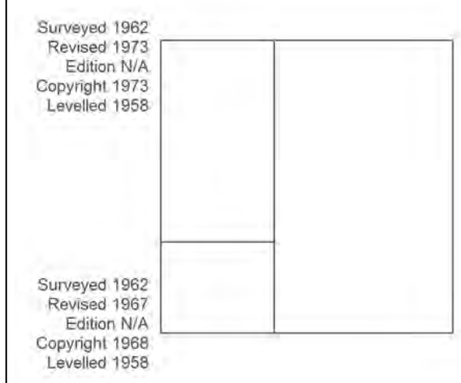

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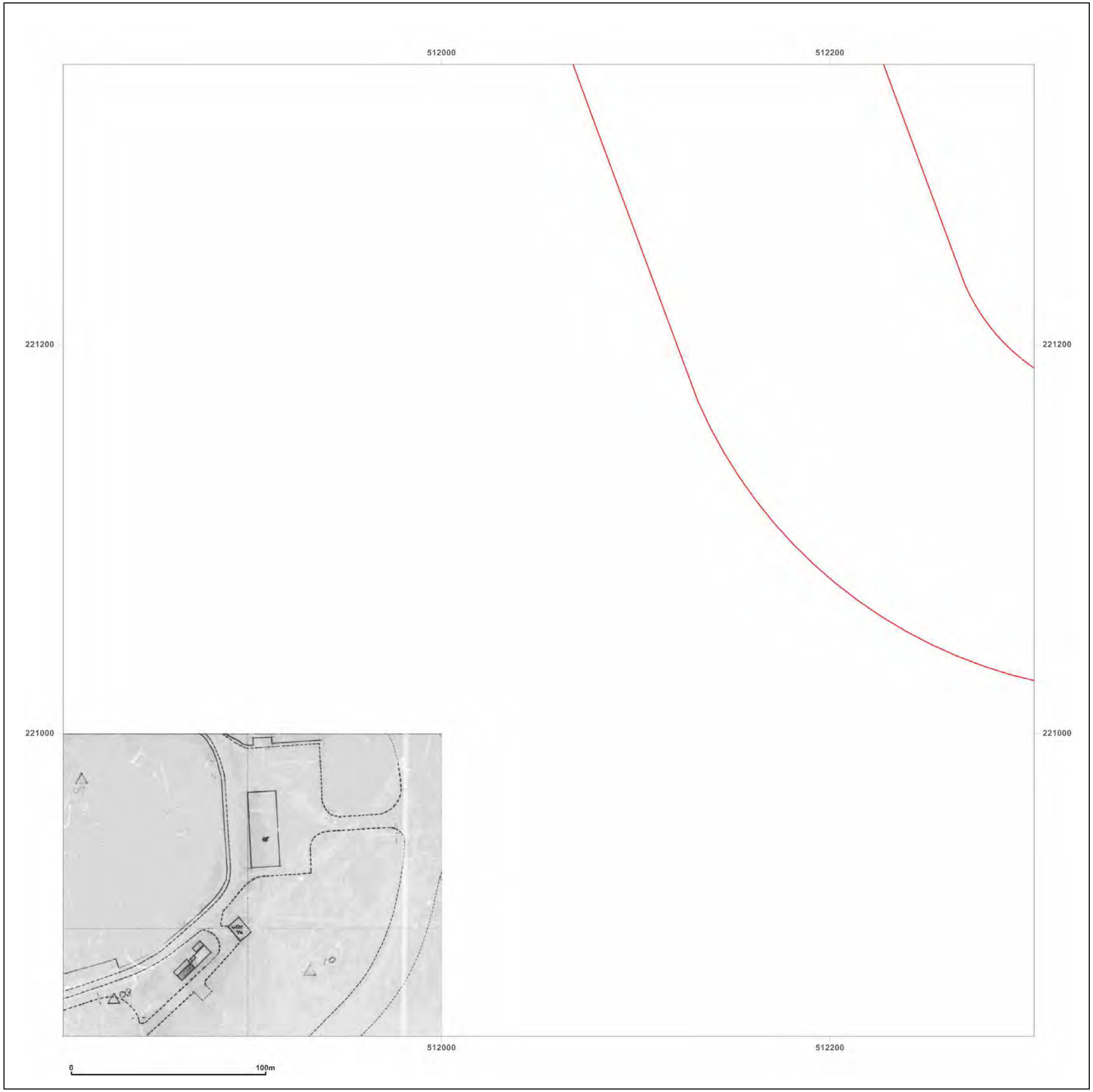

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Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_1
Grid Ref: 512055, 221094

Map Name: National Grid

Map date: **1973**

Scale: 1:1,250

Printed at: 1:2,000

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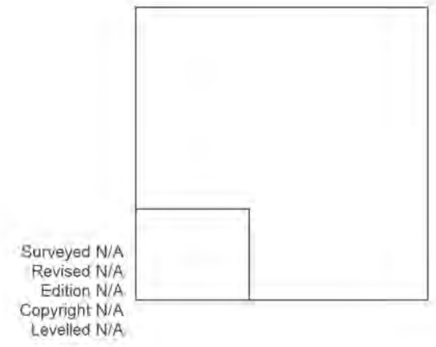

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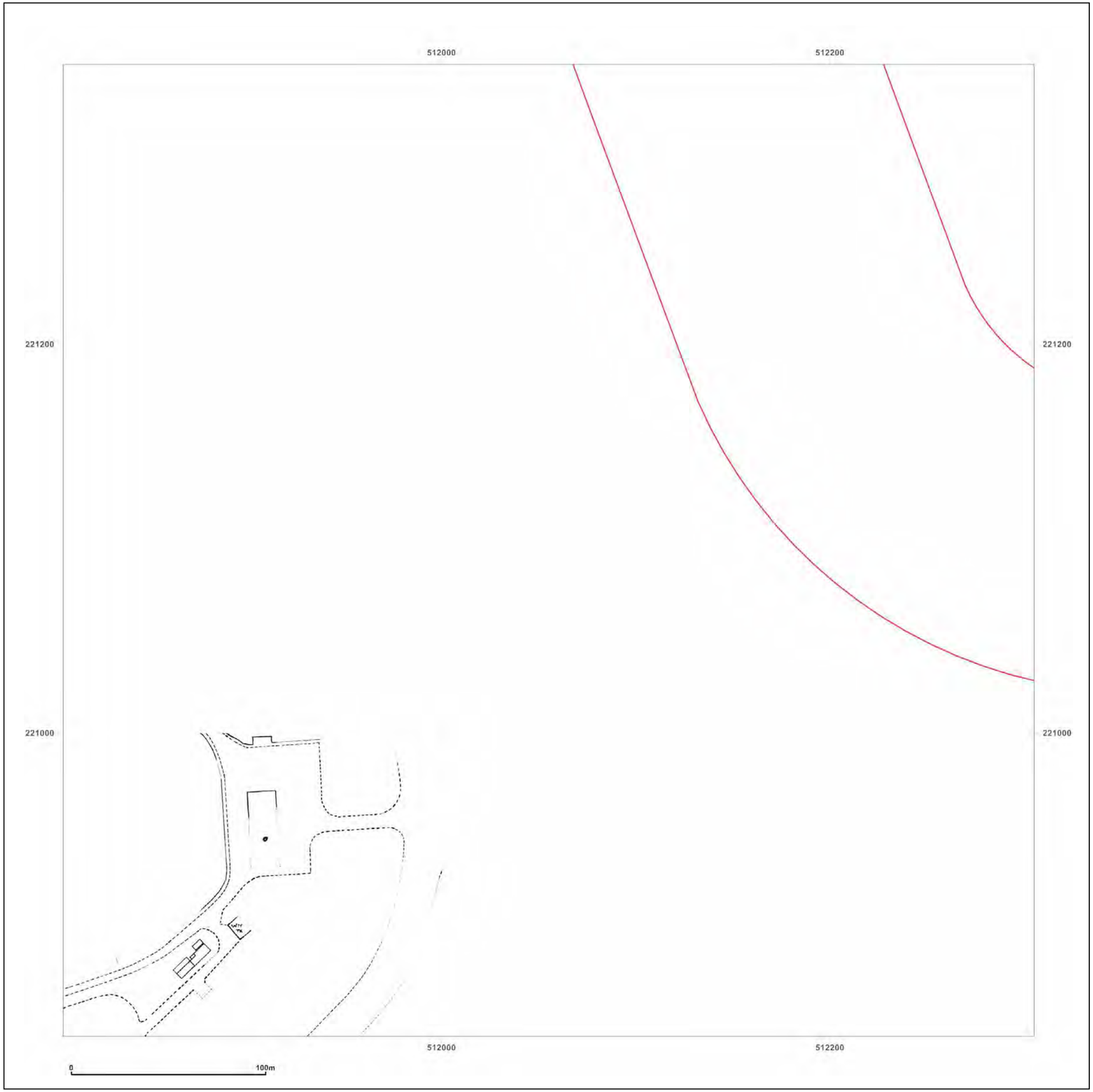

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_1
Grid Ref: 512055, 221094

Map Name: National Grid
Map date: **1975**
Scale: 1:1,250
Printed at: 1:2,000

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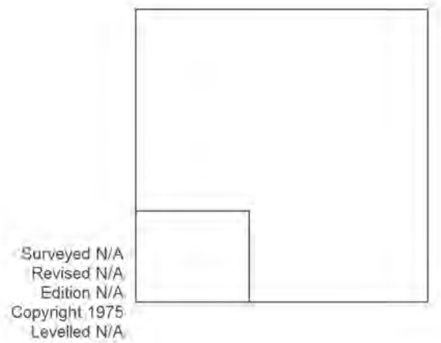

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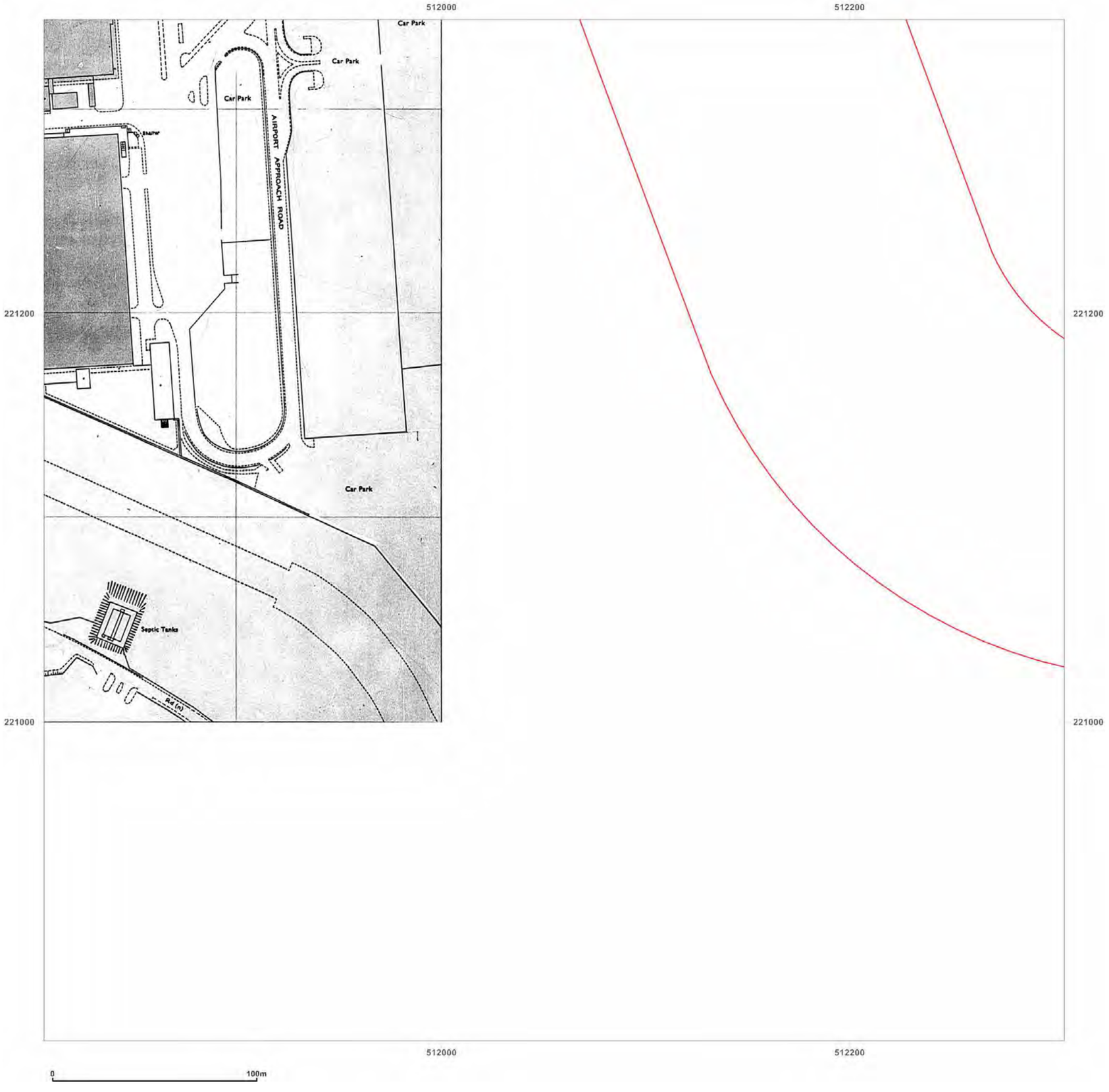

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_1
Grid Ref: 512055, 221094

Map Name: National Grid
Map date: **1981**
Scale: 1:1,250
Printed at: 1:2,000

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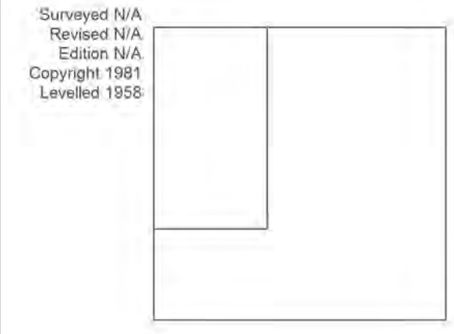

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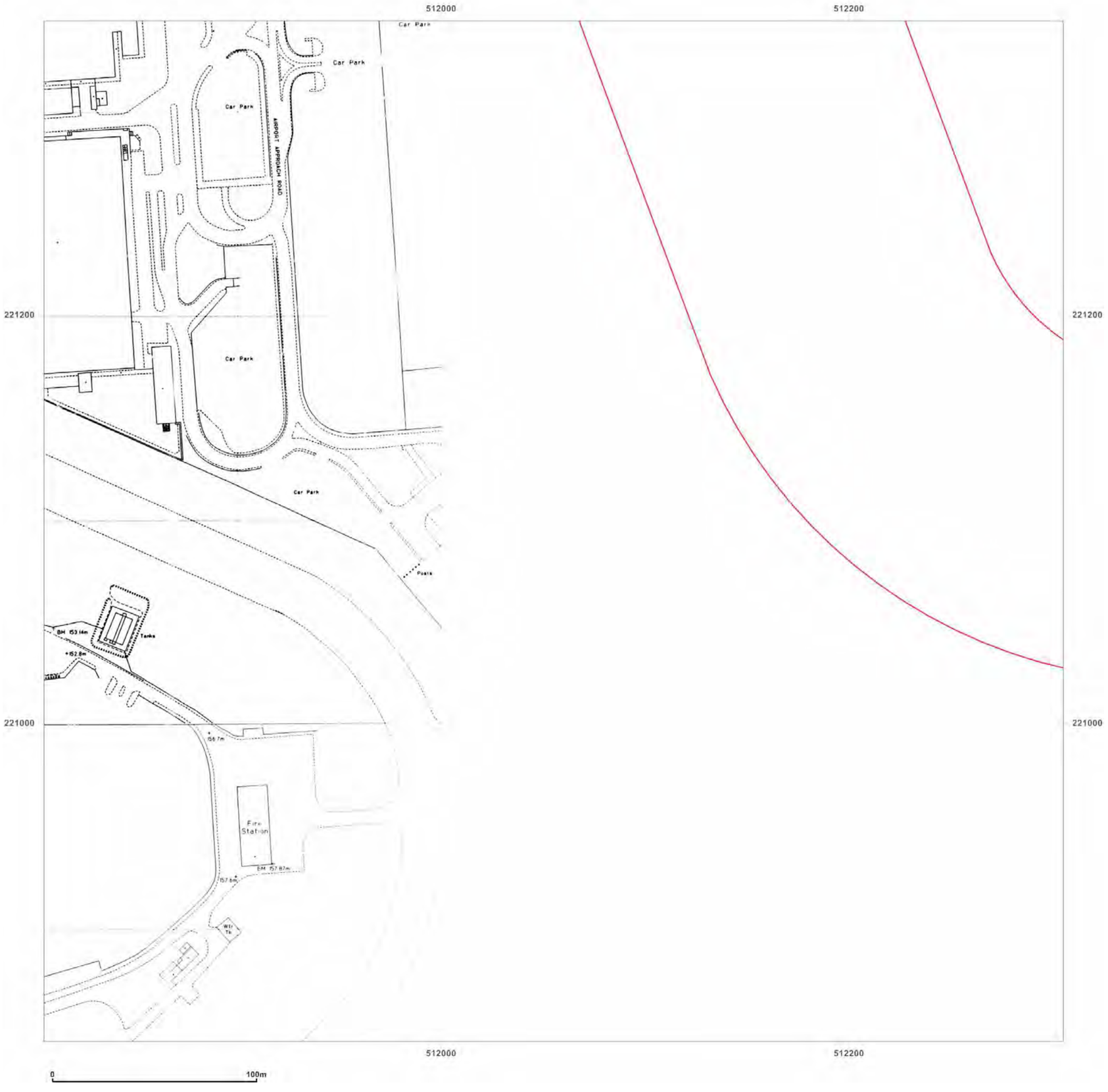

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_1
Grid Ref: 512055, 221094

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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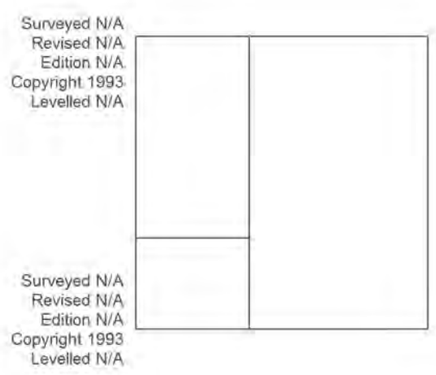

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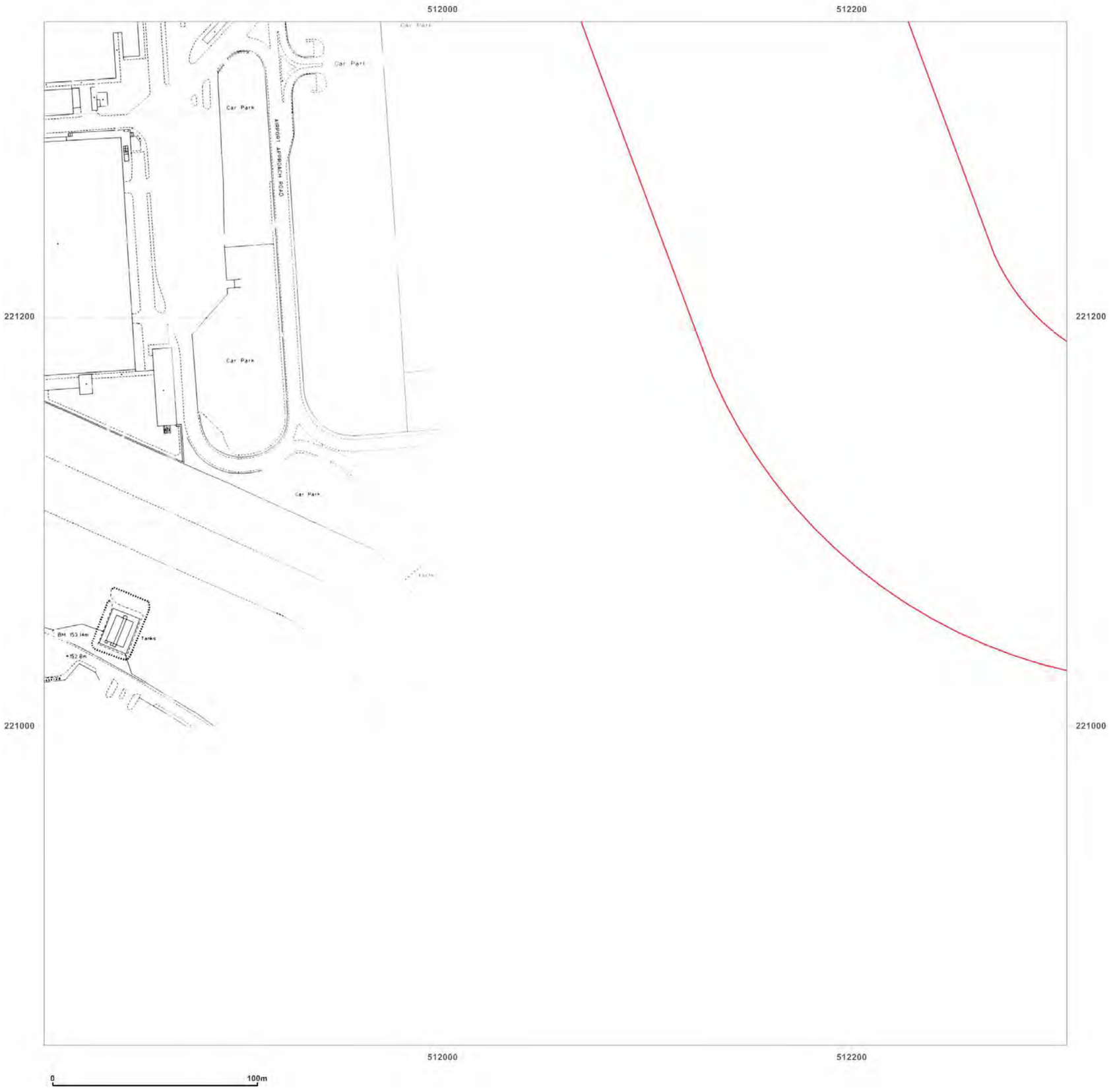

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Site Details:

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Report Ref: GS-5534634_1250scale_1_1
Grid Ref: 512055, 221094

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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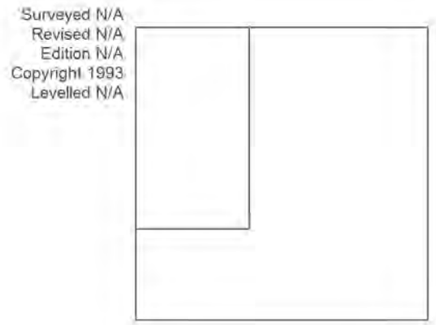

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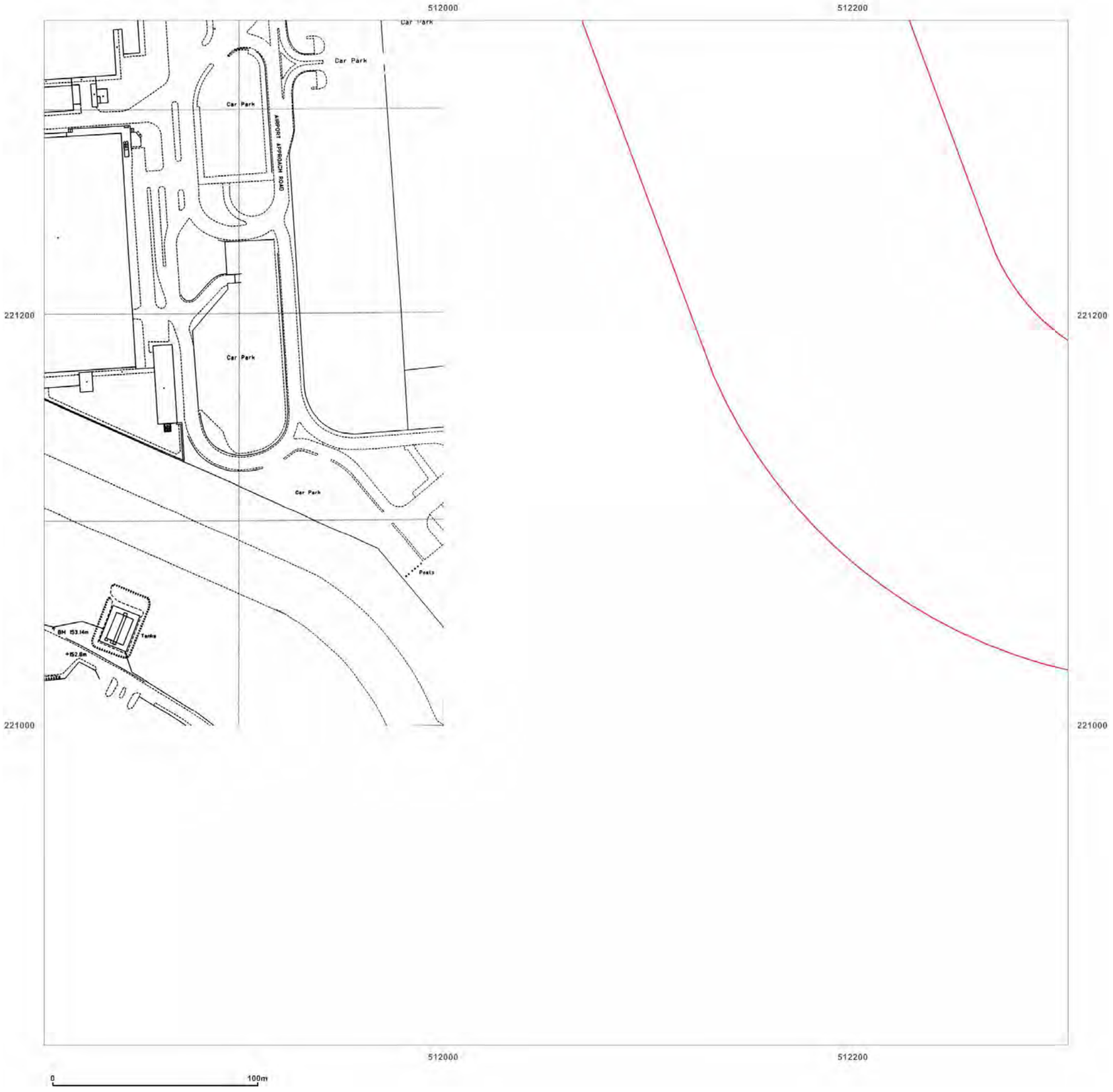

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Site Details:

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Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_1
Grid Ref: 512055, 221094

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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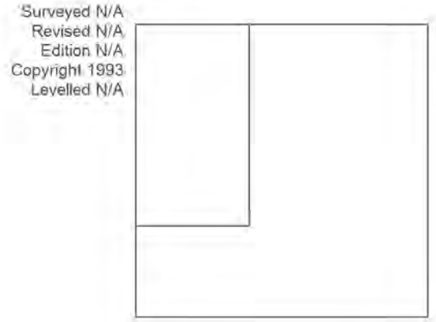

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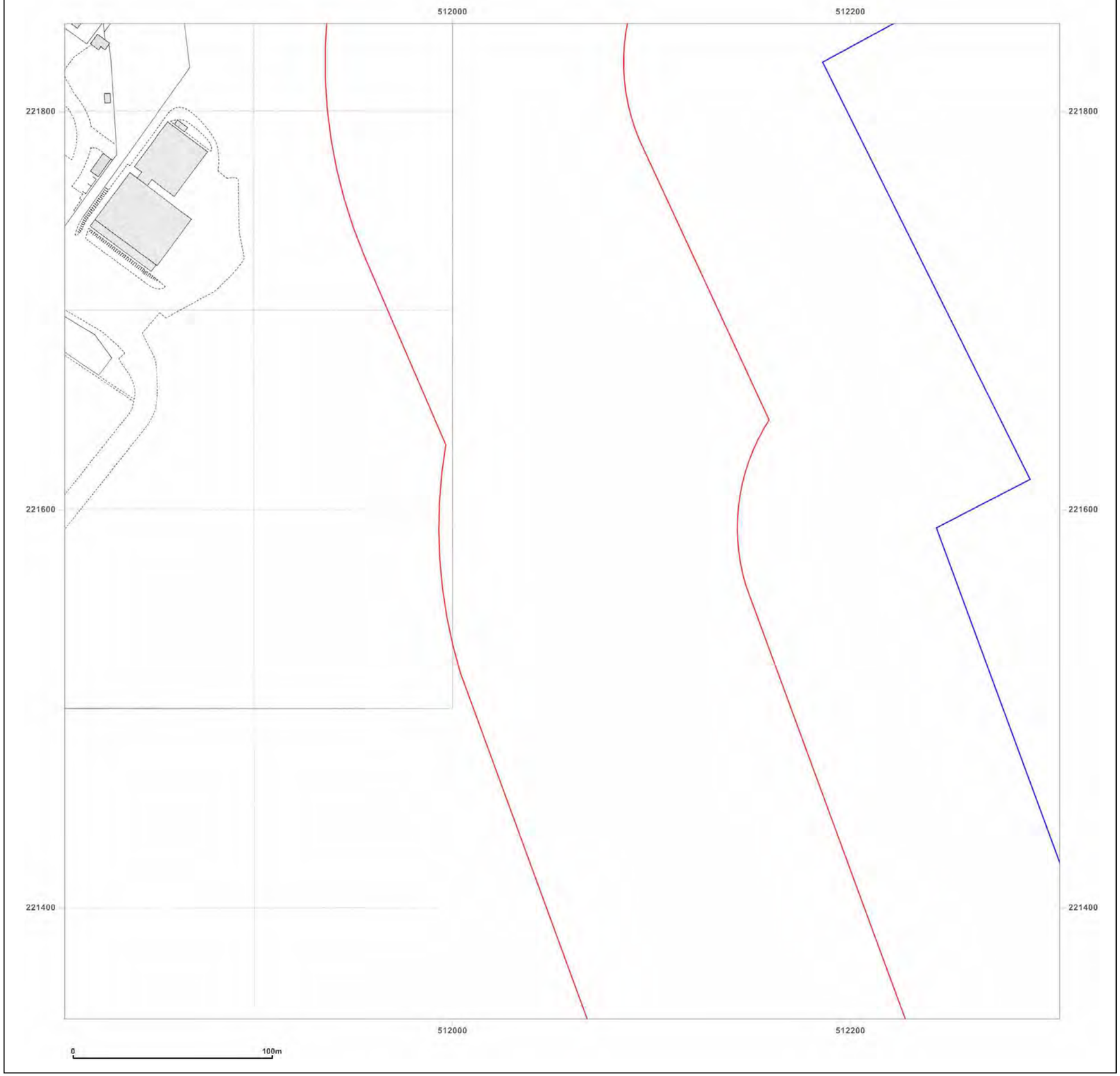

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid

Map date: **1962-1963**

Scale: 1:1,250

Printed at: 1:2,000

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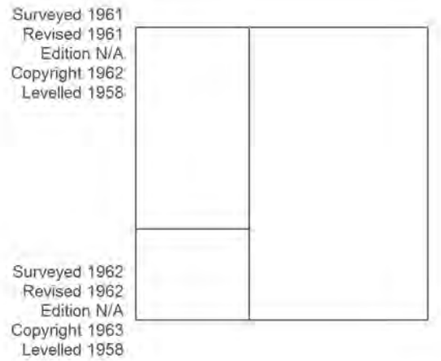

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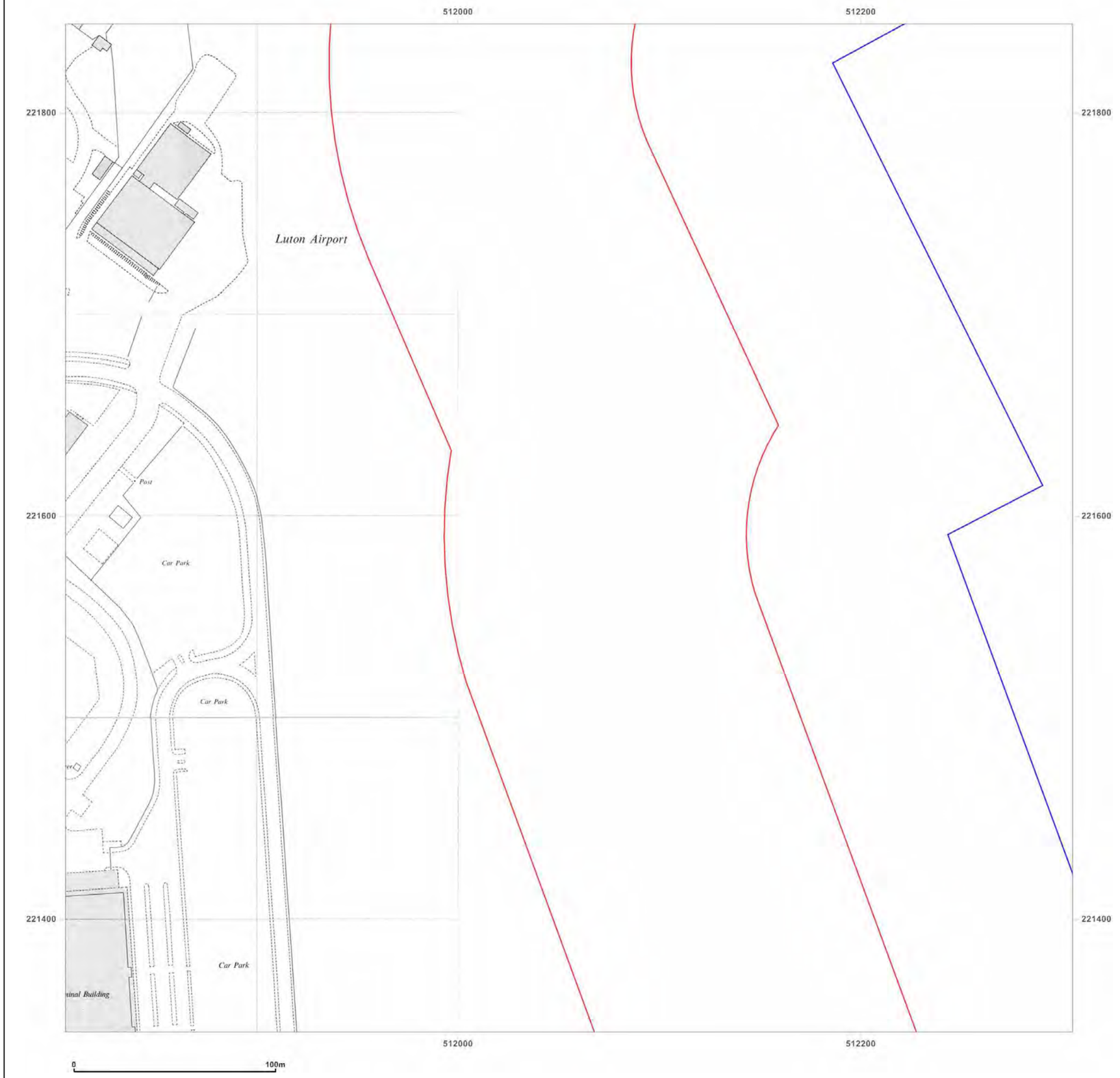

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid

Map date: **1967-1968**

Scale: 1:1,250

Printed at: 1:2,000

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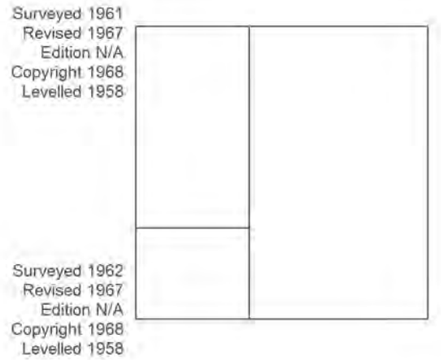

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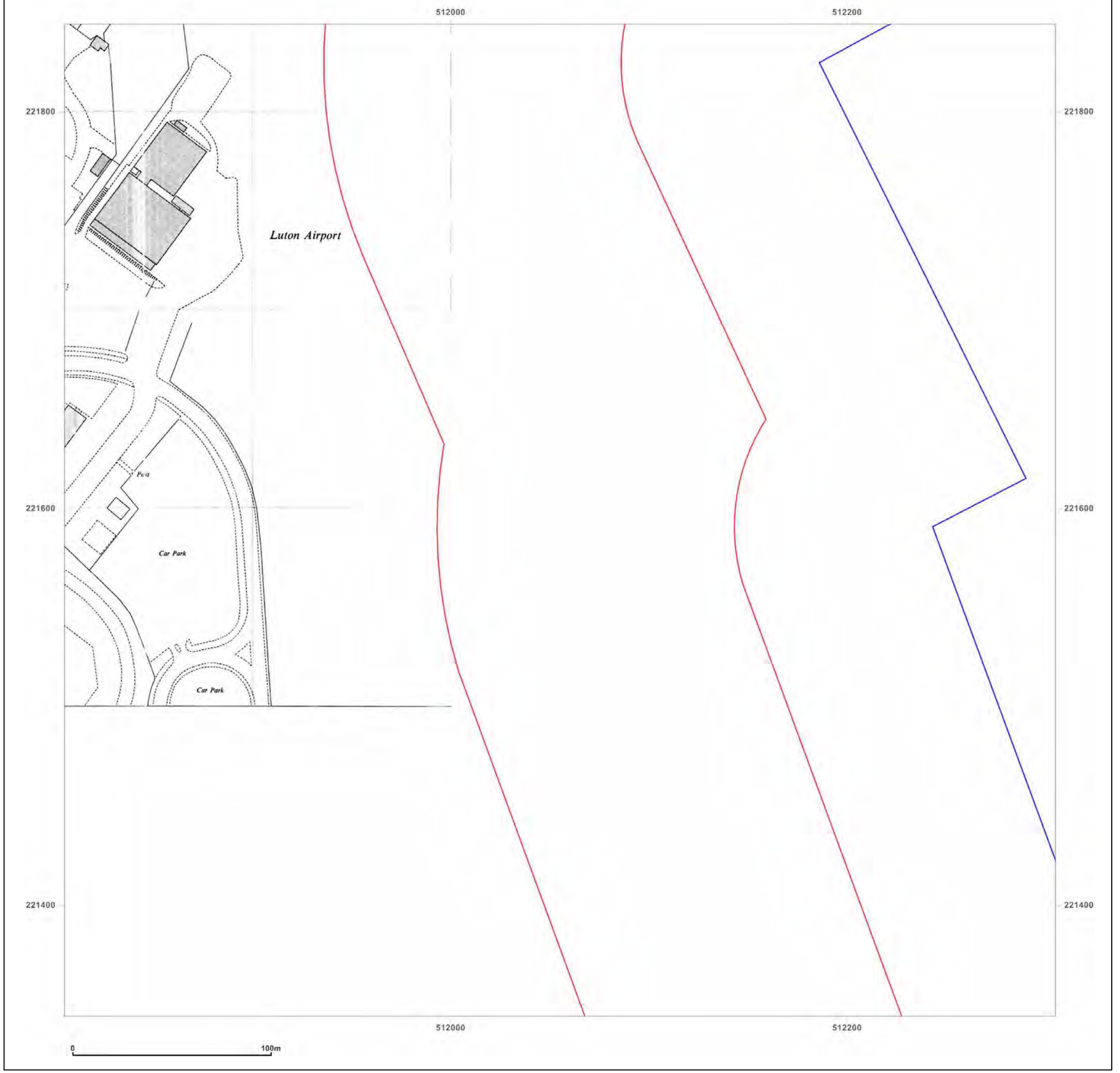

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Site Details:

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Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid

Map date: **1968**

Scale: 1:1,250

Printed at: 1:2,000

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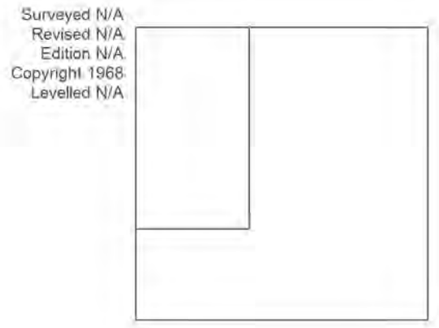

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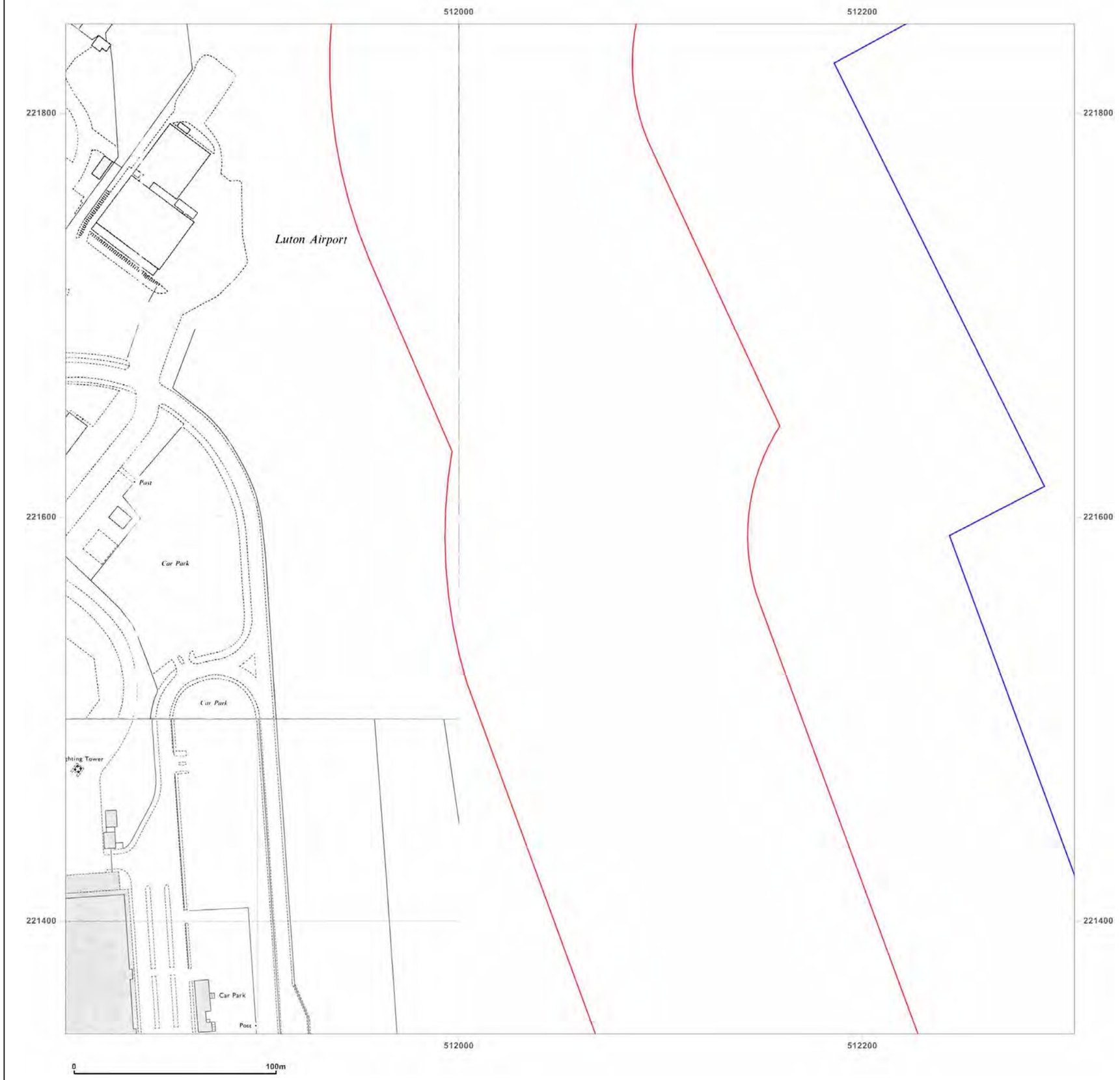

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid

Map date: **1968-1973**

Scale: 1:1,250

Printed at: 1:2,000

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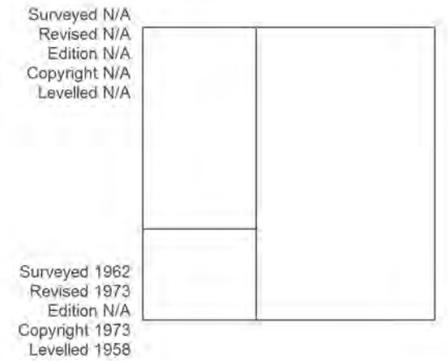

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid
Map date: **1981**
Scale: 1:1,250
Printed at: 1:2,000

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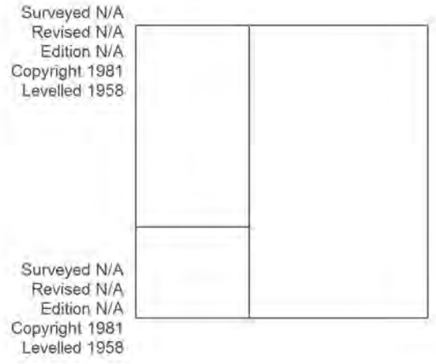

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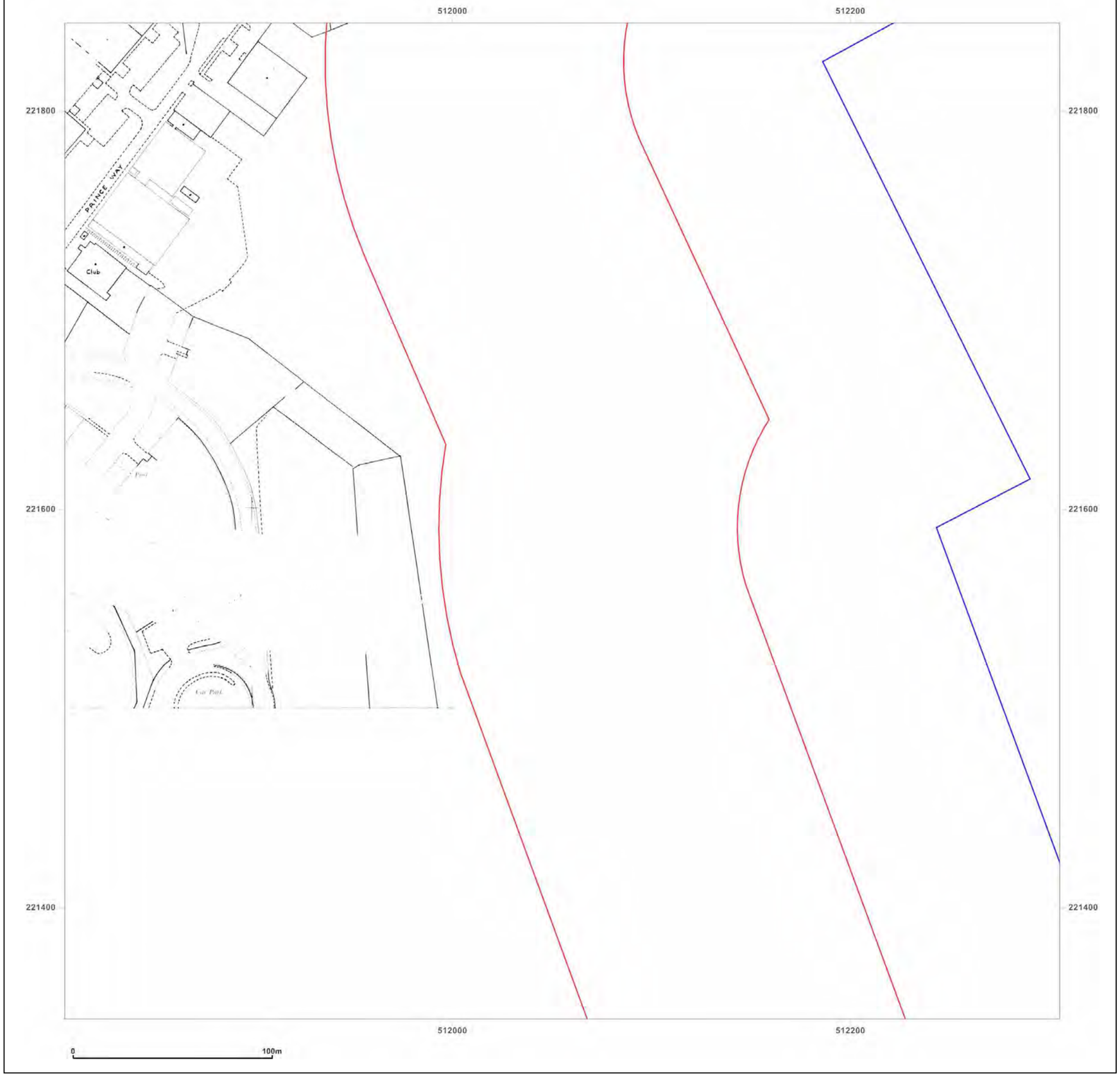

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid

Map date: **1987**

Scale: 1:1,250

Printed at: 1:2,000

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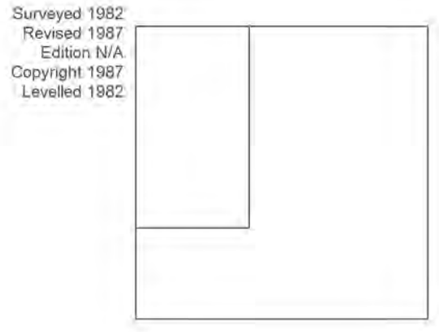

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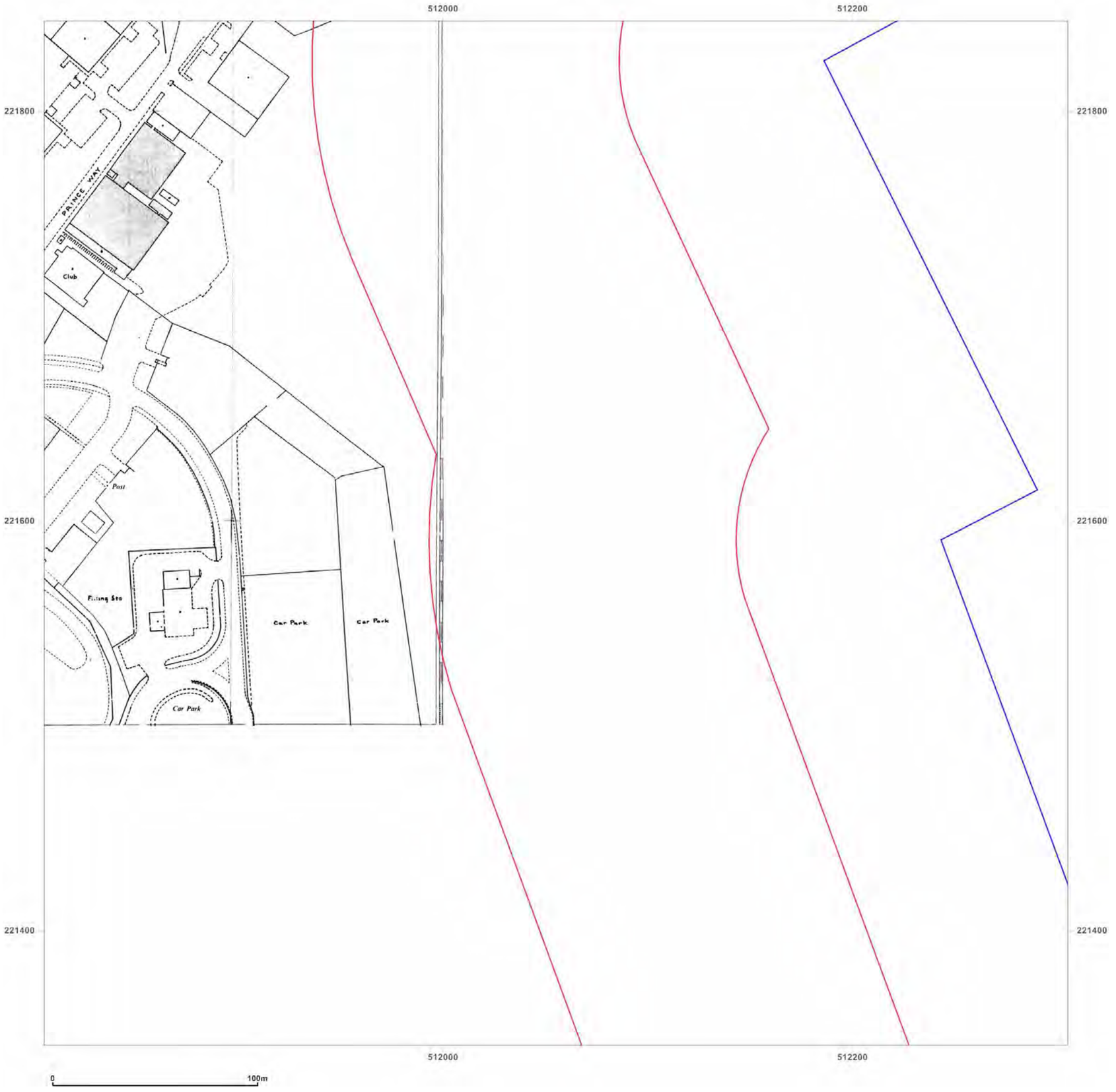

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid

Map date: **1987**

Scale: 1:1,250

Printed at: 1:2,000

N
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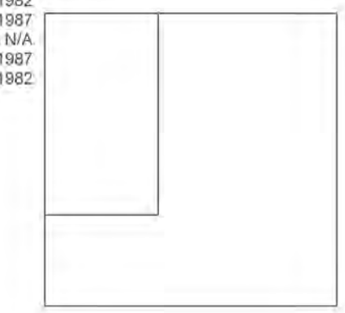
Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982



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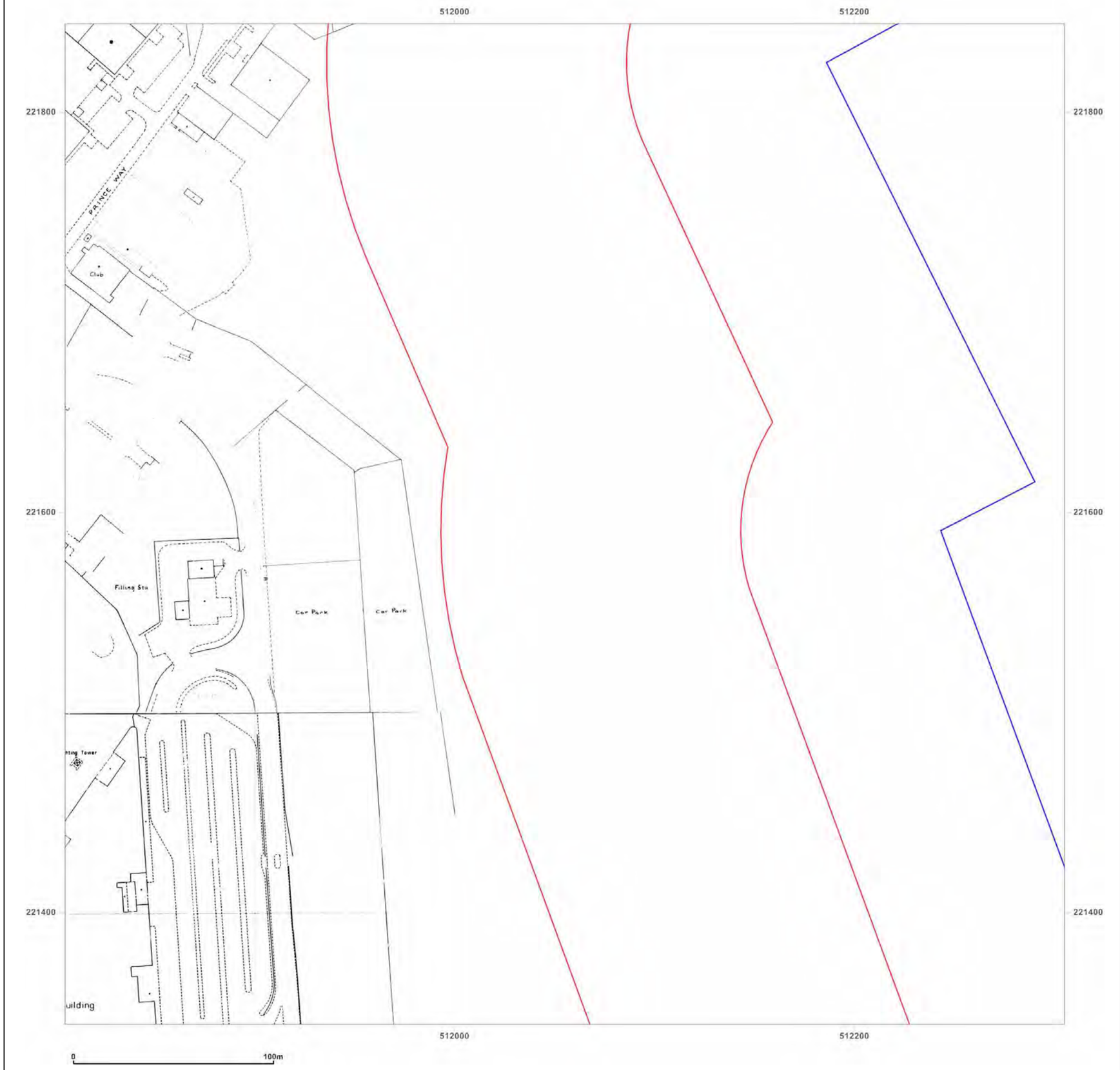

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid

Map date: **1991-1993**

Scale: 1:1,250

Printed at: 1:2,000

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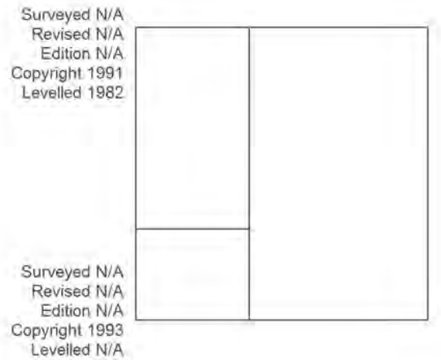

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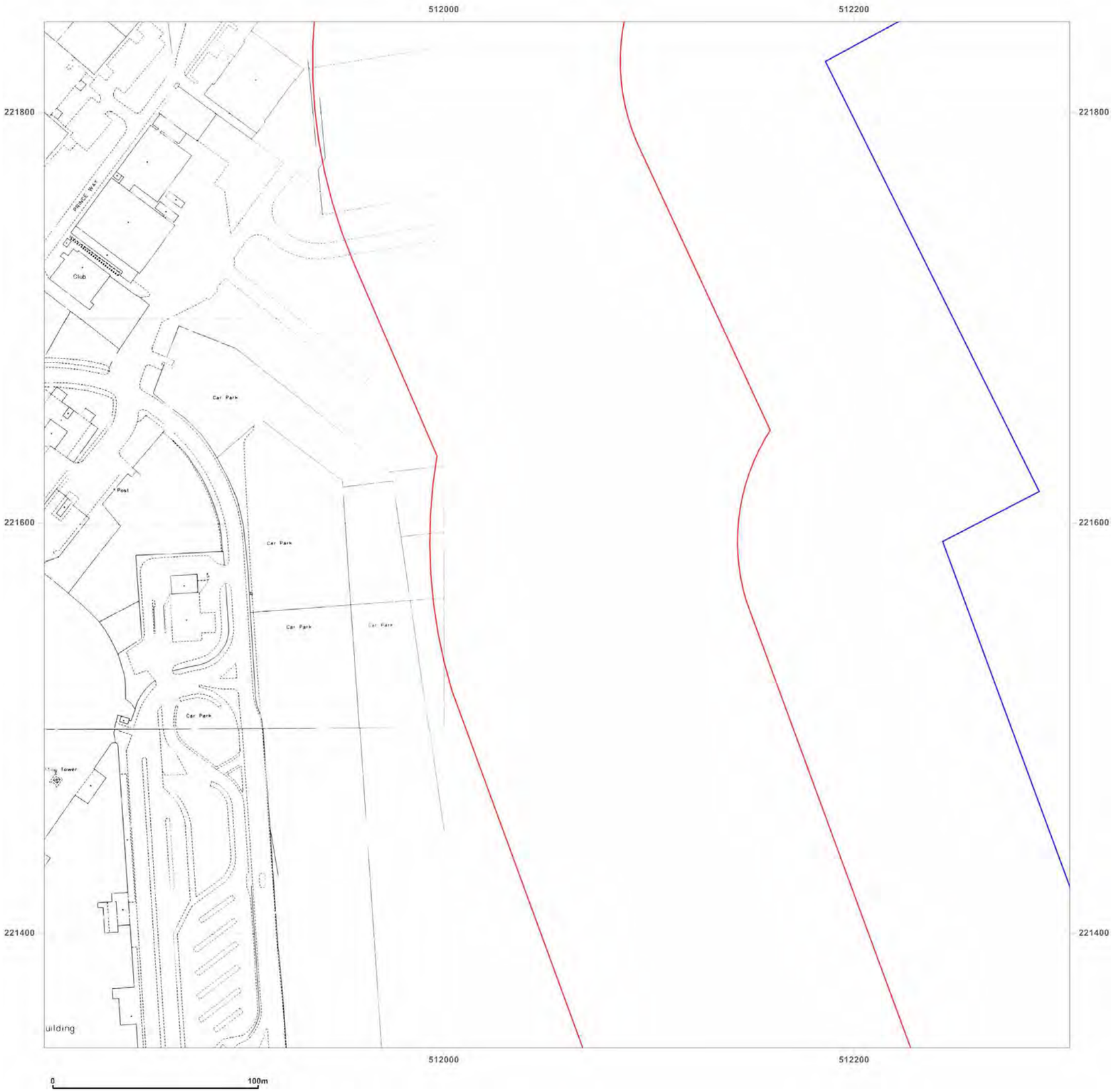

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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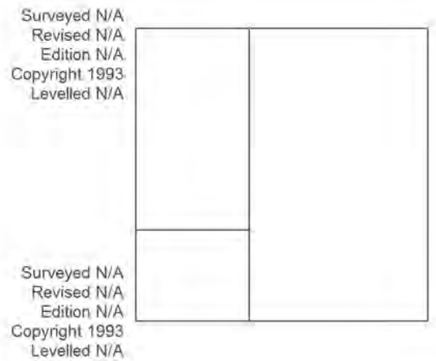

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Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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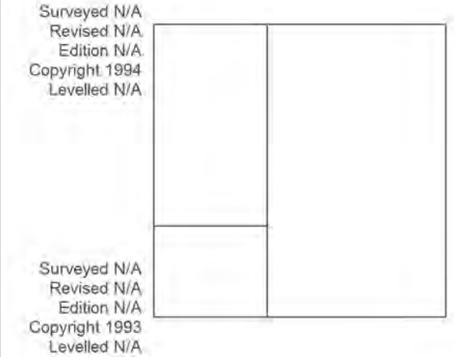

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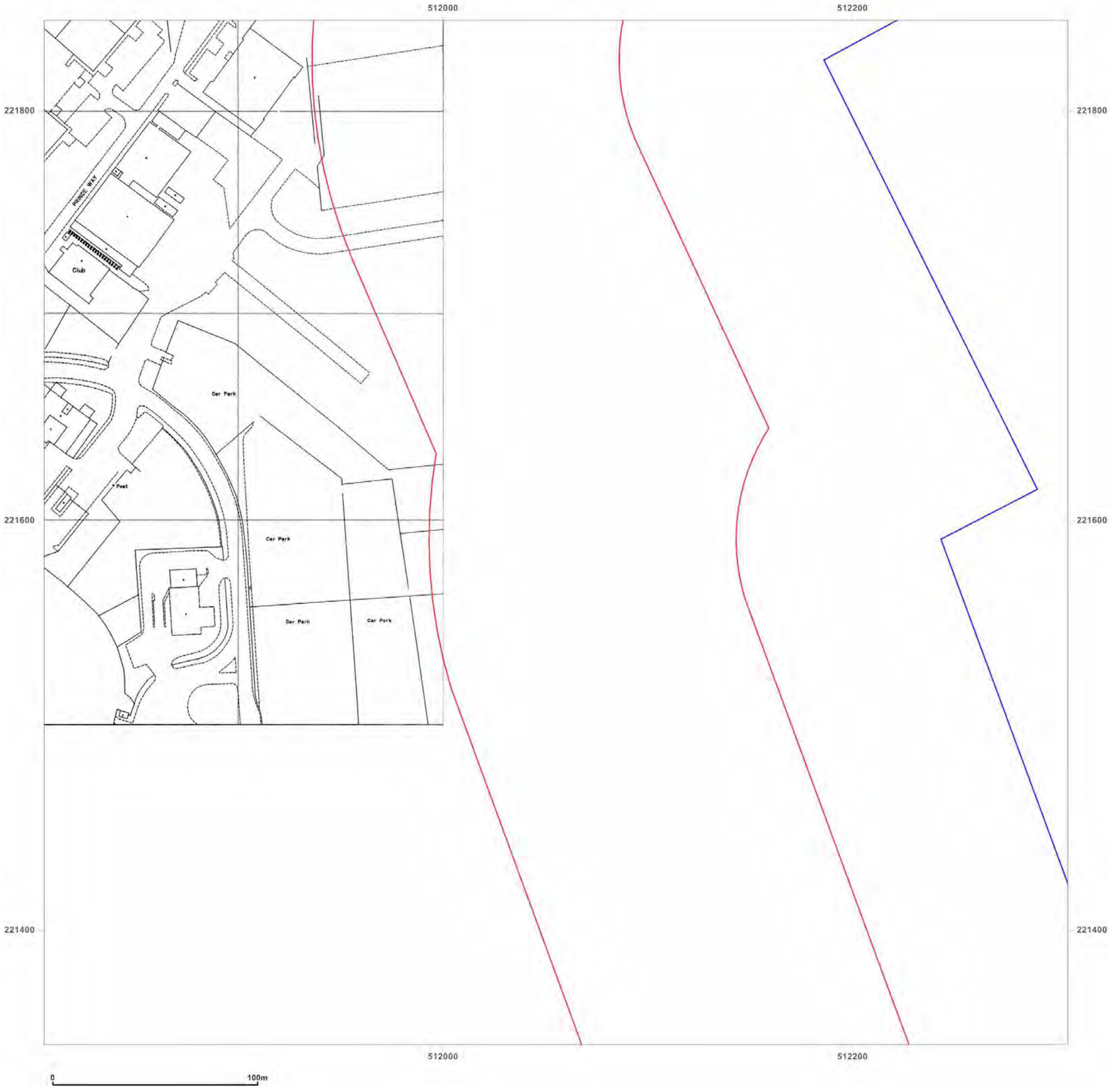

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_2
Grid Ref: 512055, 221594

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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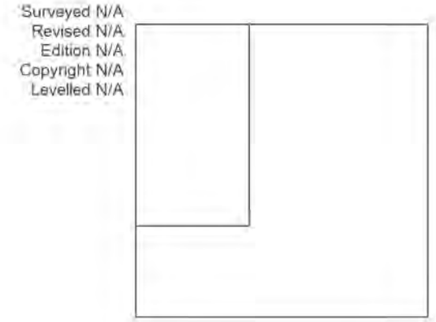

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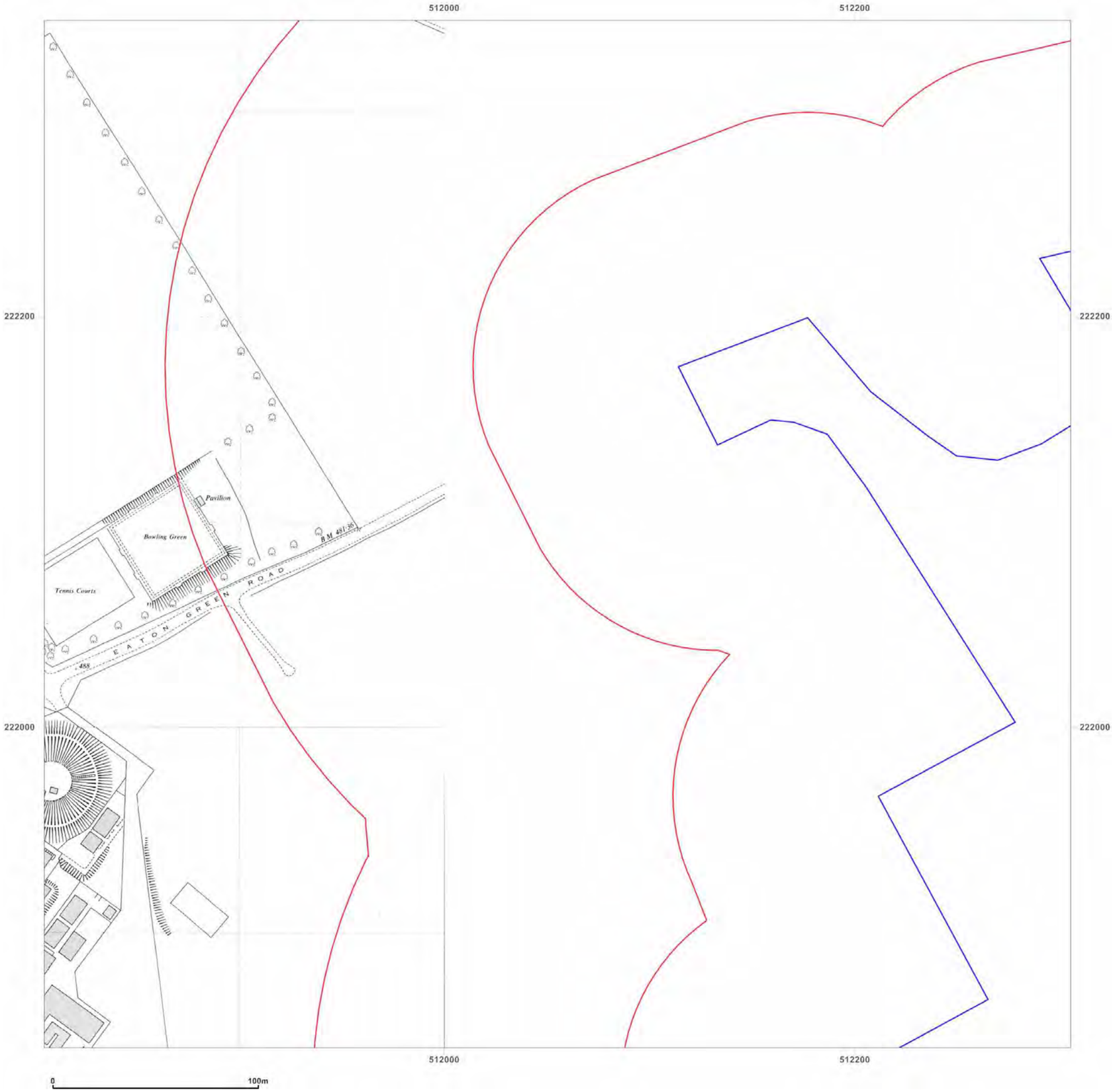

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid
Map date: **1962**
Scale: 1:1,250
Printed at: 1:2,000

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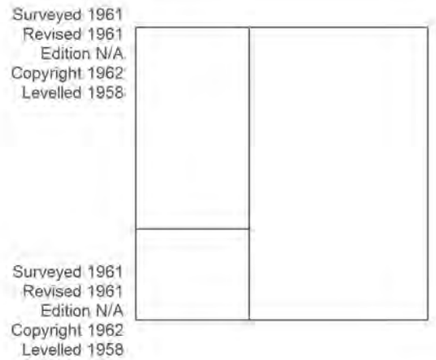

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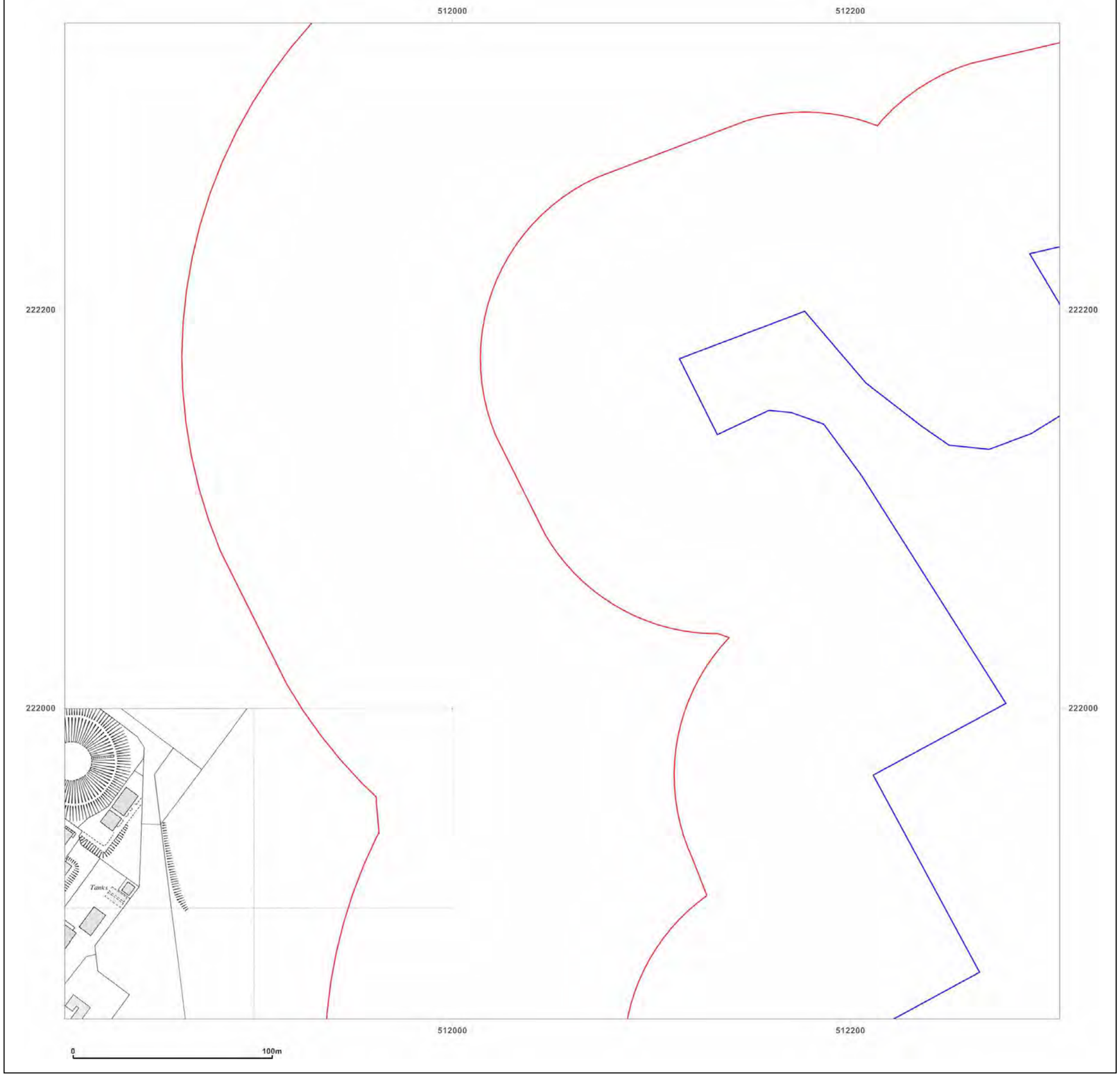

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid

Map date: **1967**

Scale: 1:1,250

Printed at: 1:2,000

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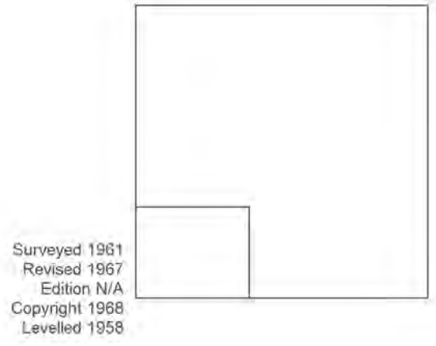

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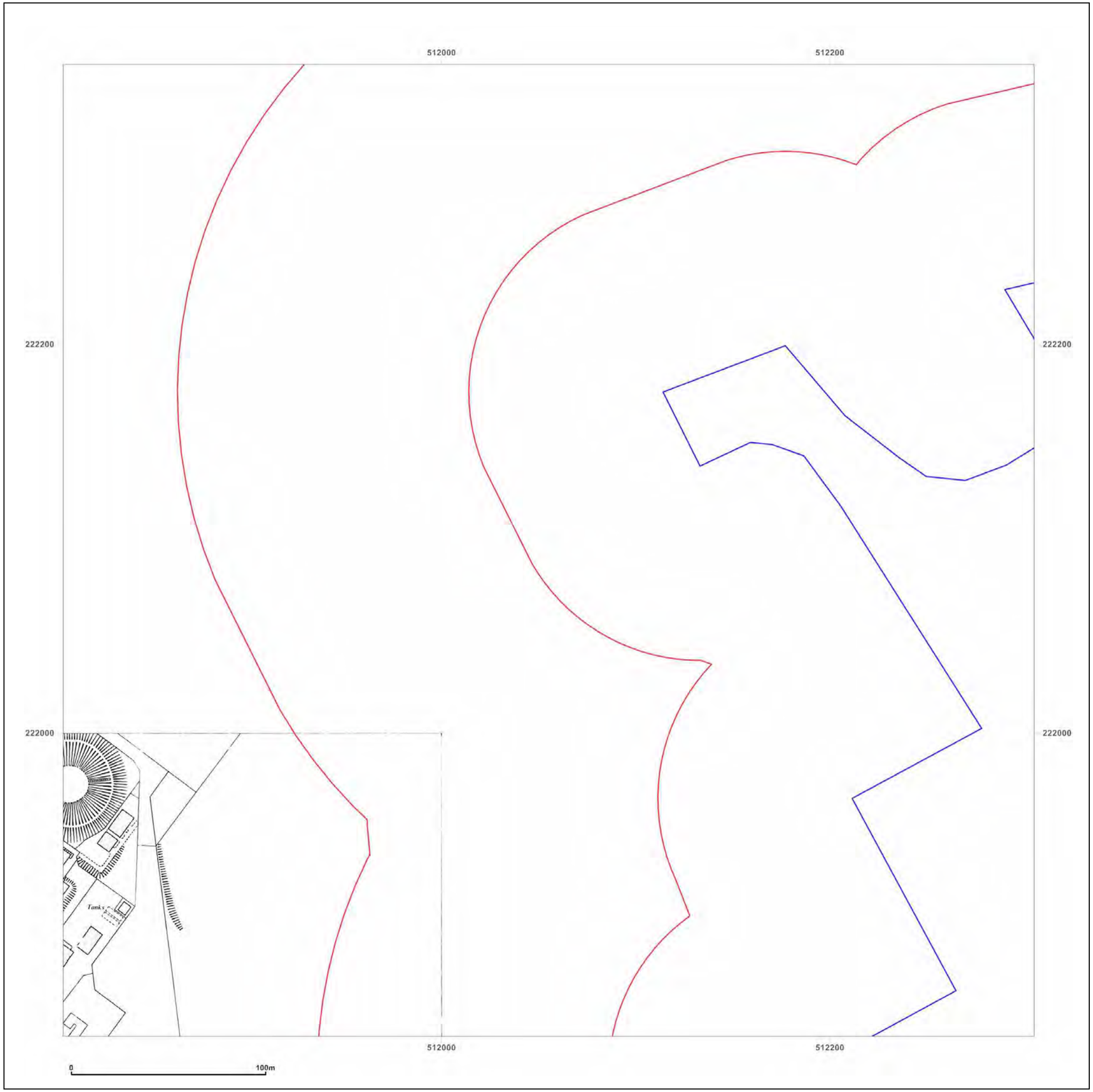

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid
Map date: **1968**
Scale: 1:1,250
Printed at: 1:2,000

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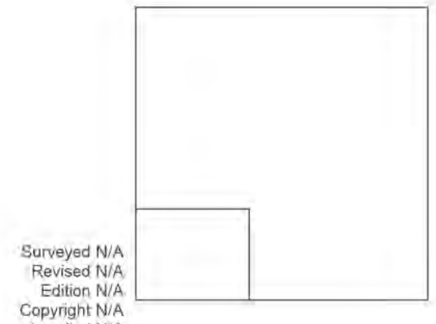

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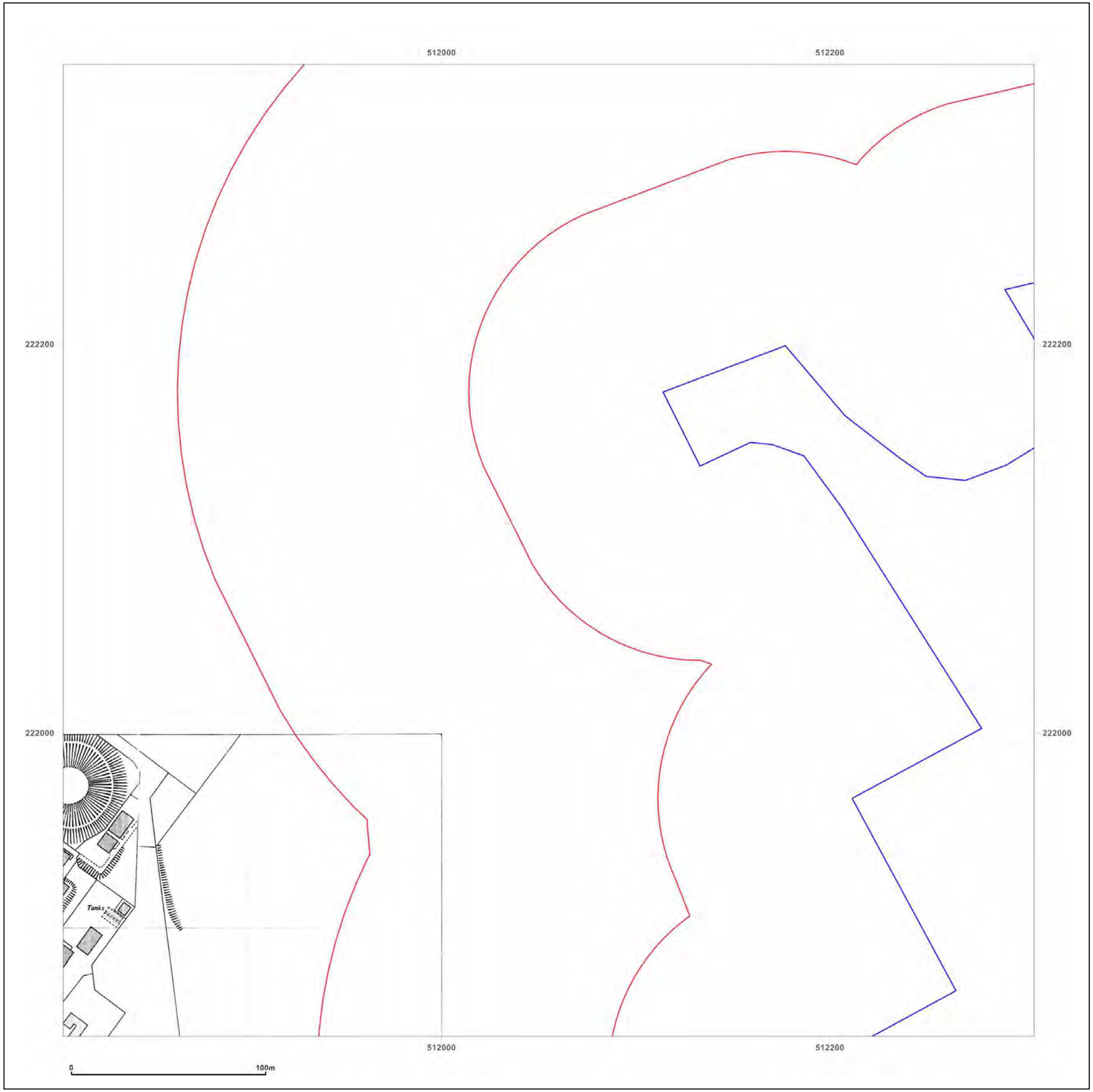

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Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid

Map date: **1968**

Scale: 1:1,250

Printed at: 1:2,000

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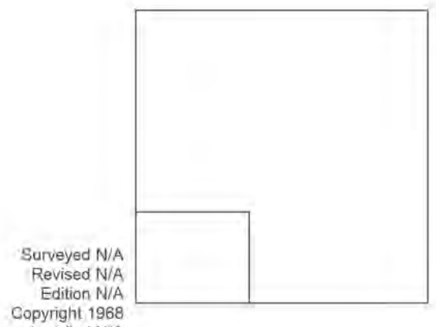

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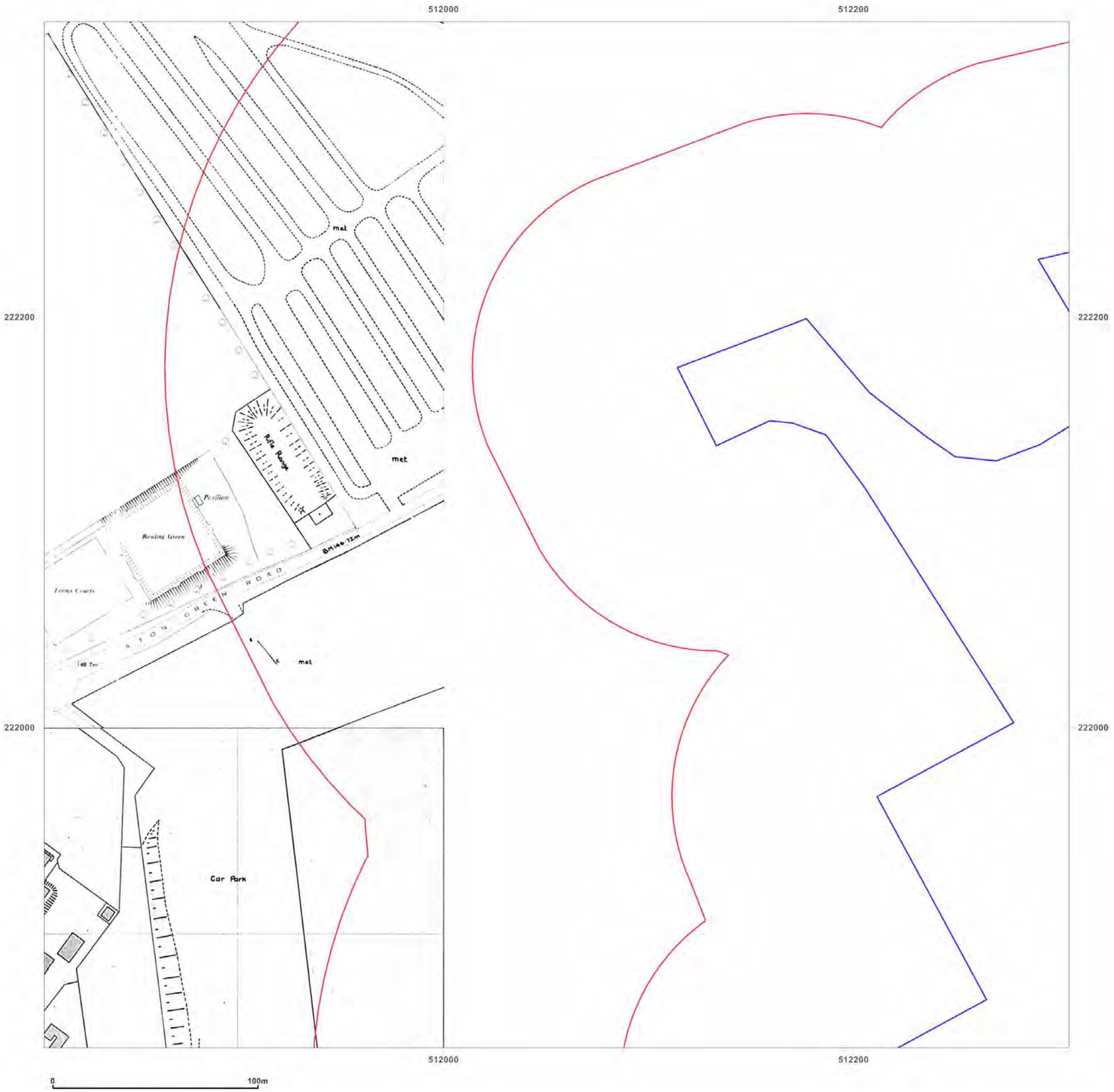

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid

Map date: **1978-1981**

Scale: 1:1,250

Printed at: 1:2,000

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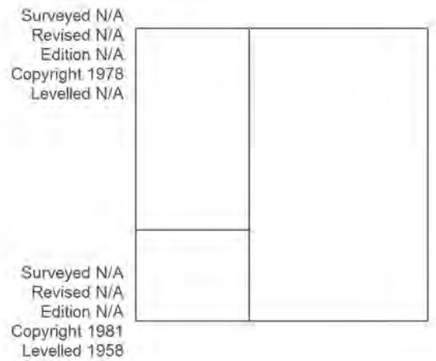

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid
Map date: **1981**
Scale: 1:1,250
Printed at: 1:2,000

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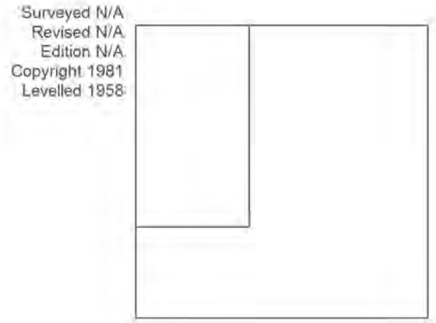

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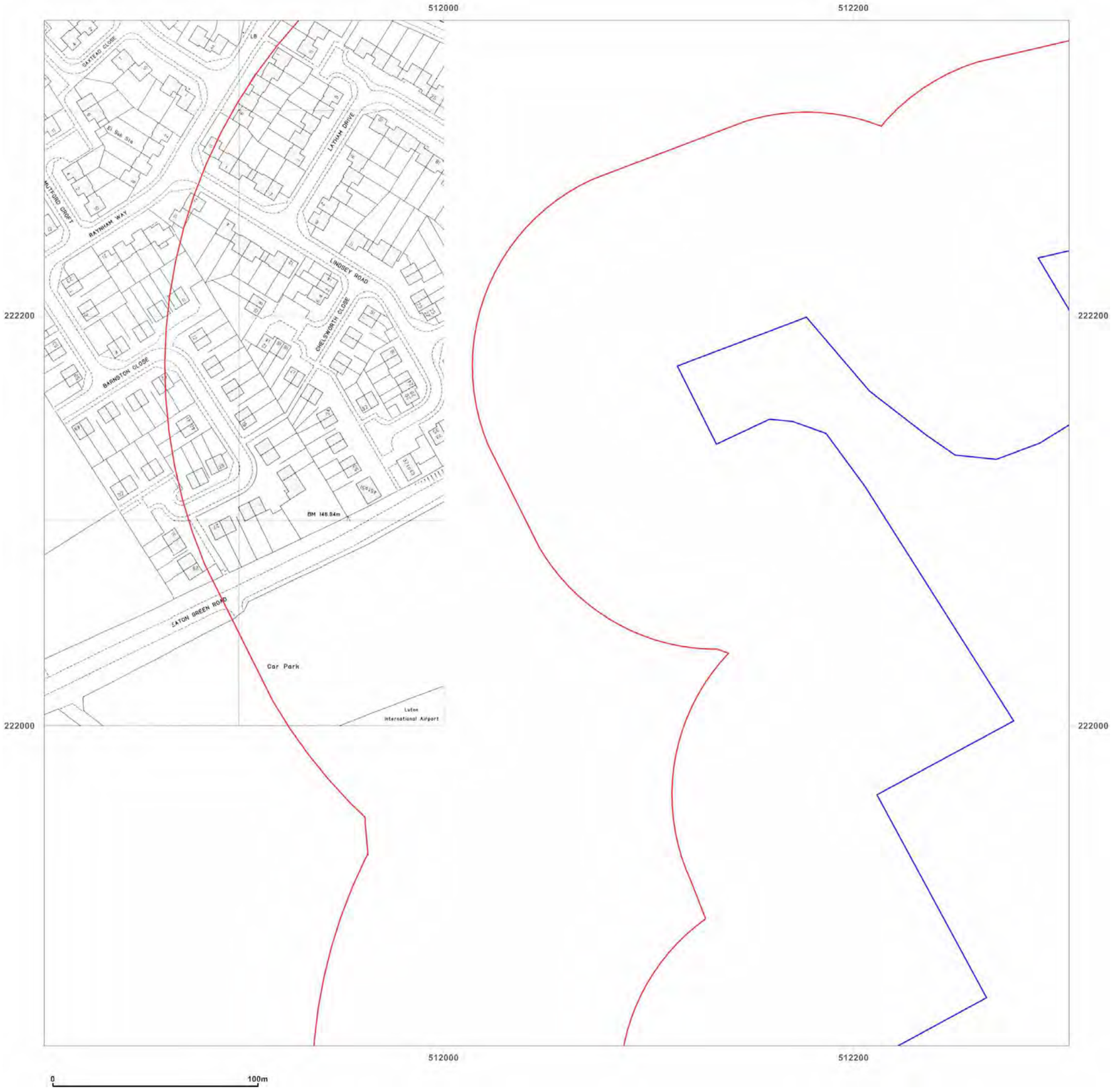

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid

Map date: **1985**

Scale: 1:1,250

Printed at: 1:2,000

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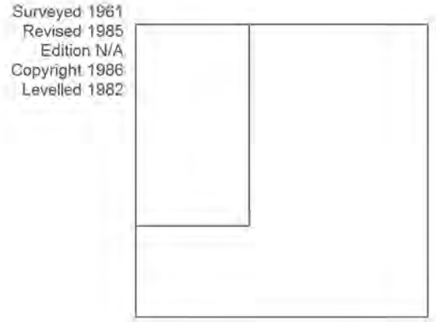

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid

Map date: **1982-1987**

Scale: 1:1,250

Printed at: 1:2,000

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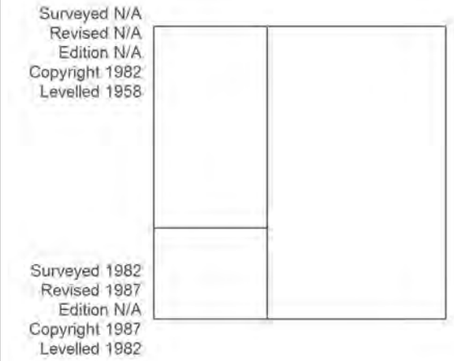

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Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid

Map date: **1982-1987**

Scale: 1:1,250

Printed at: 1:2,000

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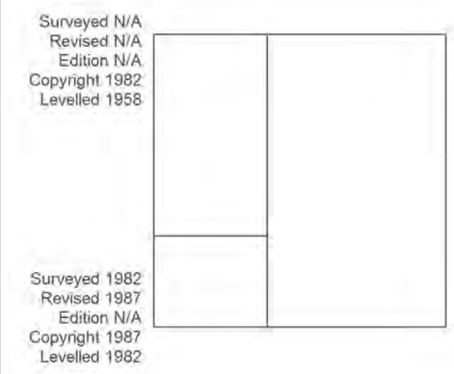

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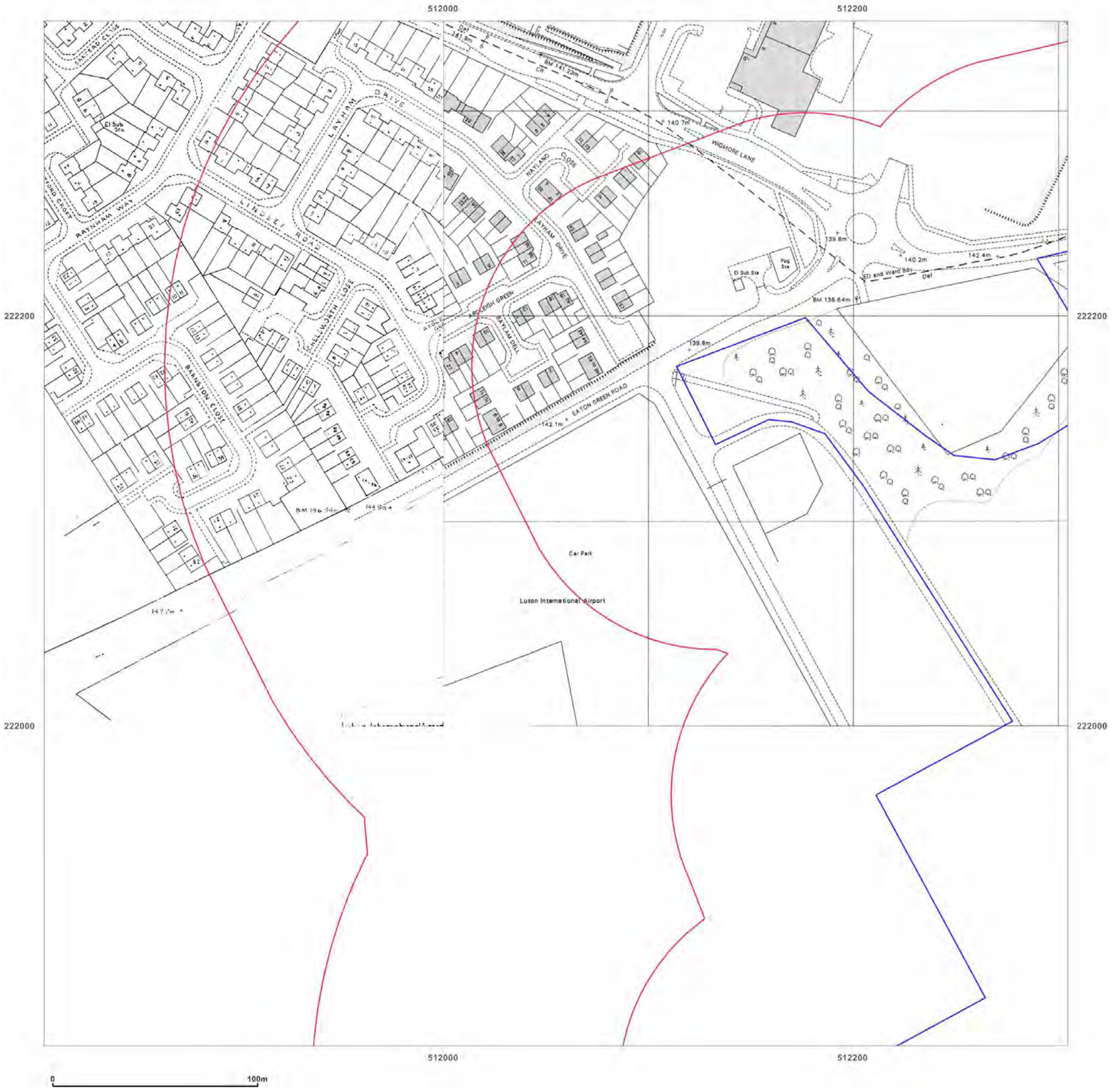

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid

Map date: **1984-1989**

Scale: 1:1,250

Printed at: 1:2,000

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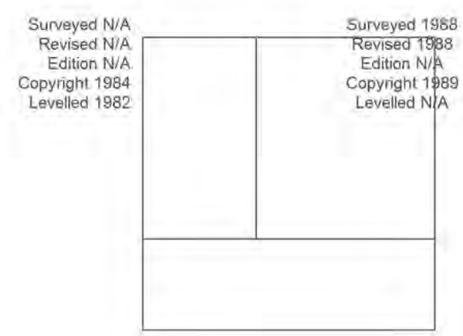

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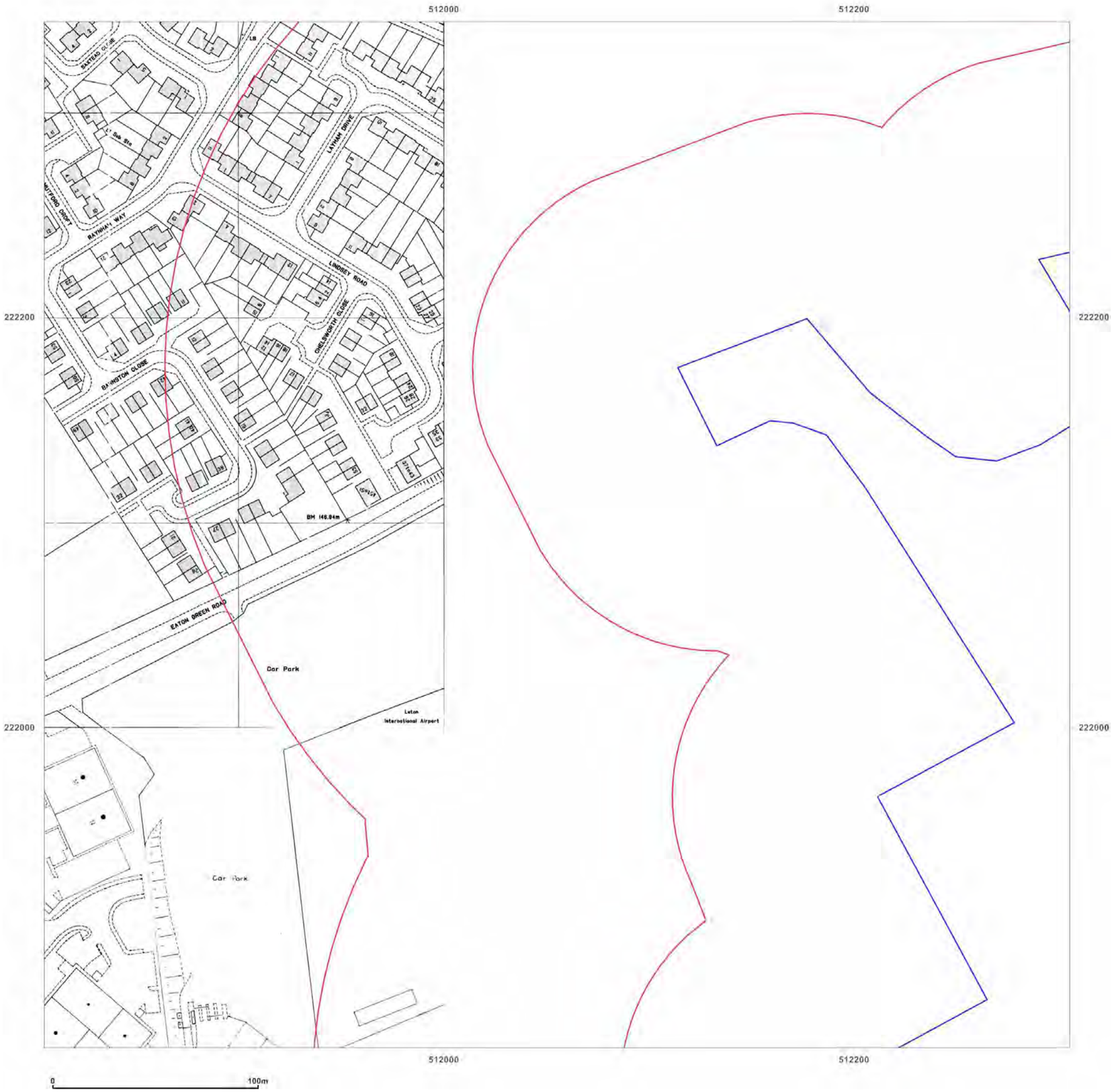

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid

Map date: **1986-1991**

Scale: 1:1,250

Printed at: 1:2,000

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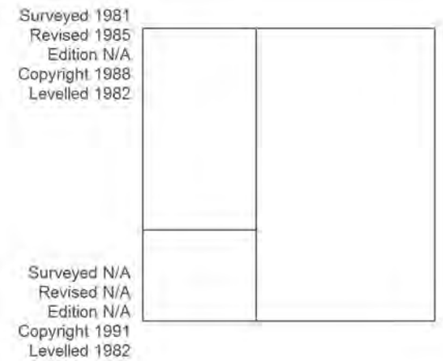

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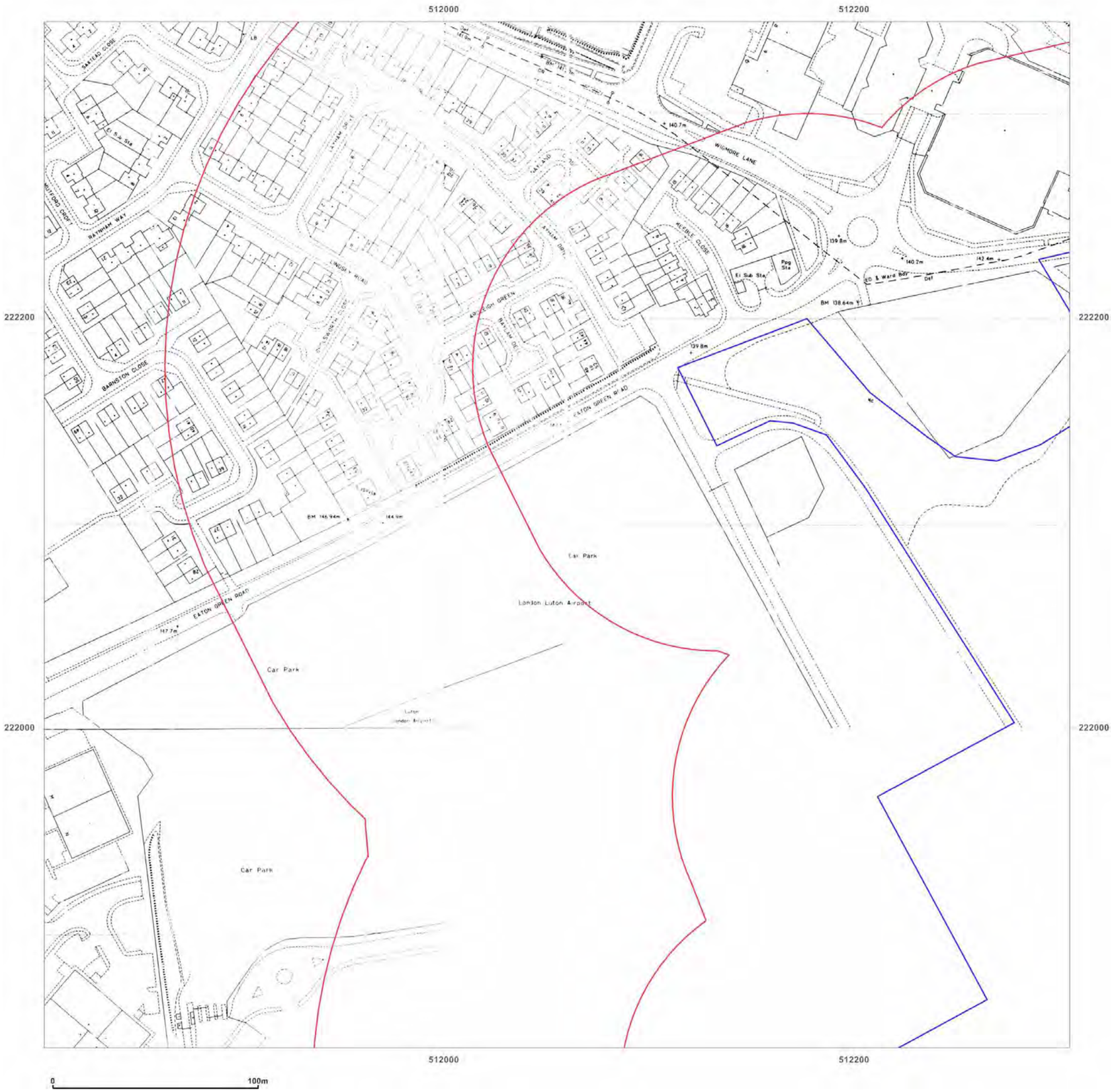

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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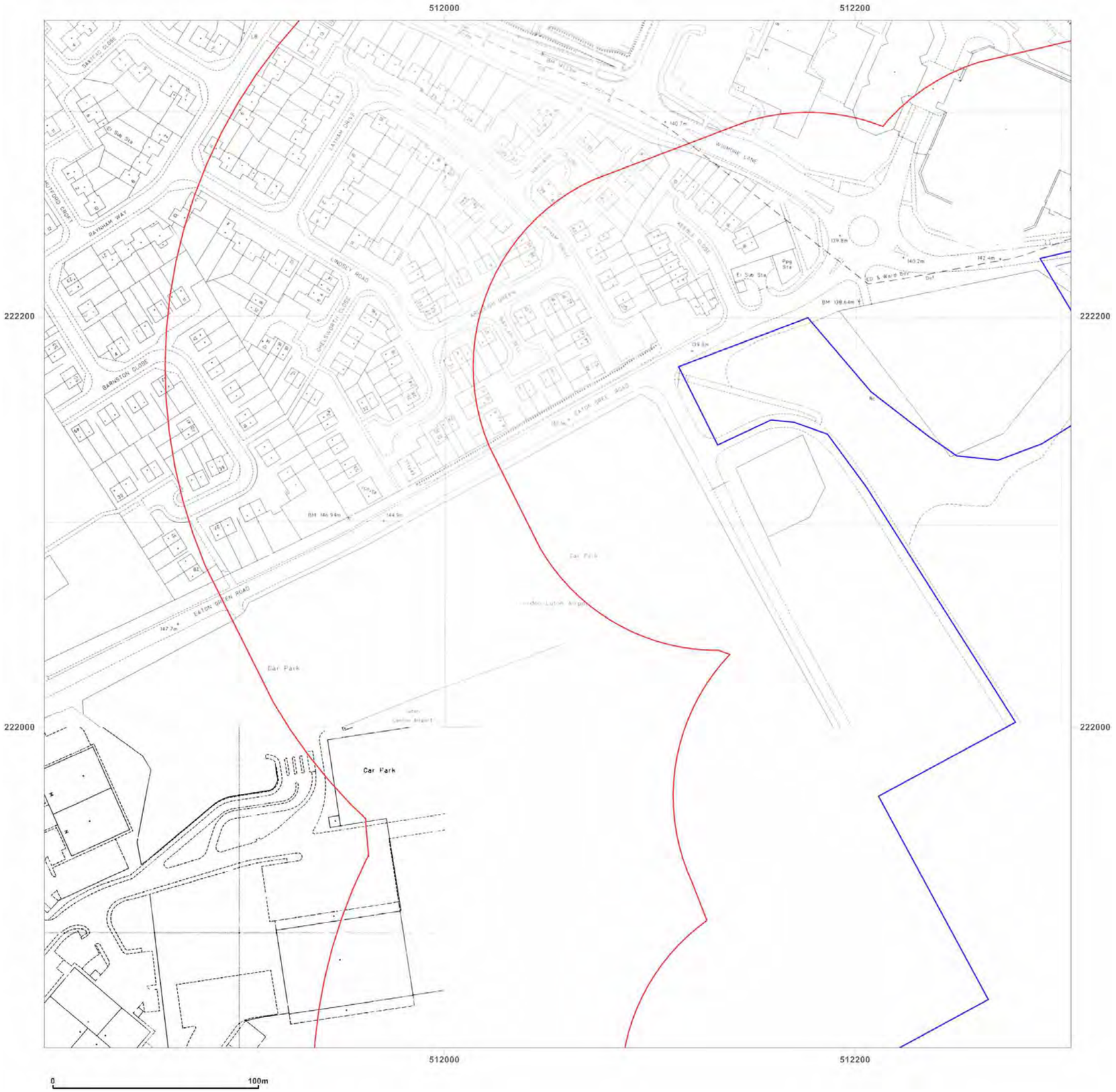

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid
Map date: **1993-1994**
Scale: 1:1,250
Printed at: 1:2,000

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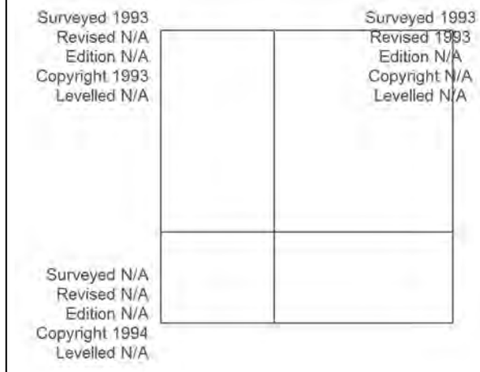

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Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_3
Grid Ref: 512055, 222094

Map Name: National Grid
Map date: **1994**
Scale: 1:1,250
Printed at: 1:2,000

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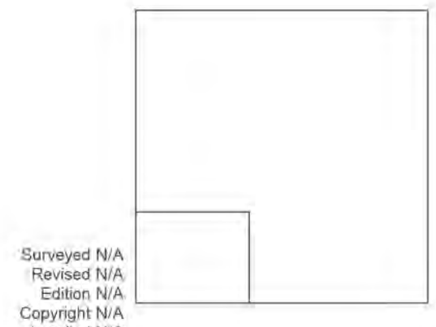

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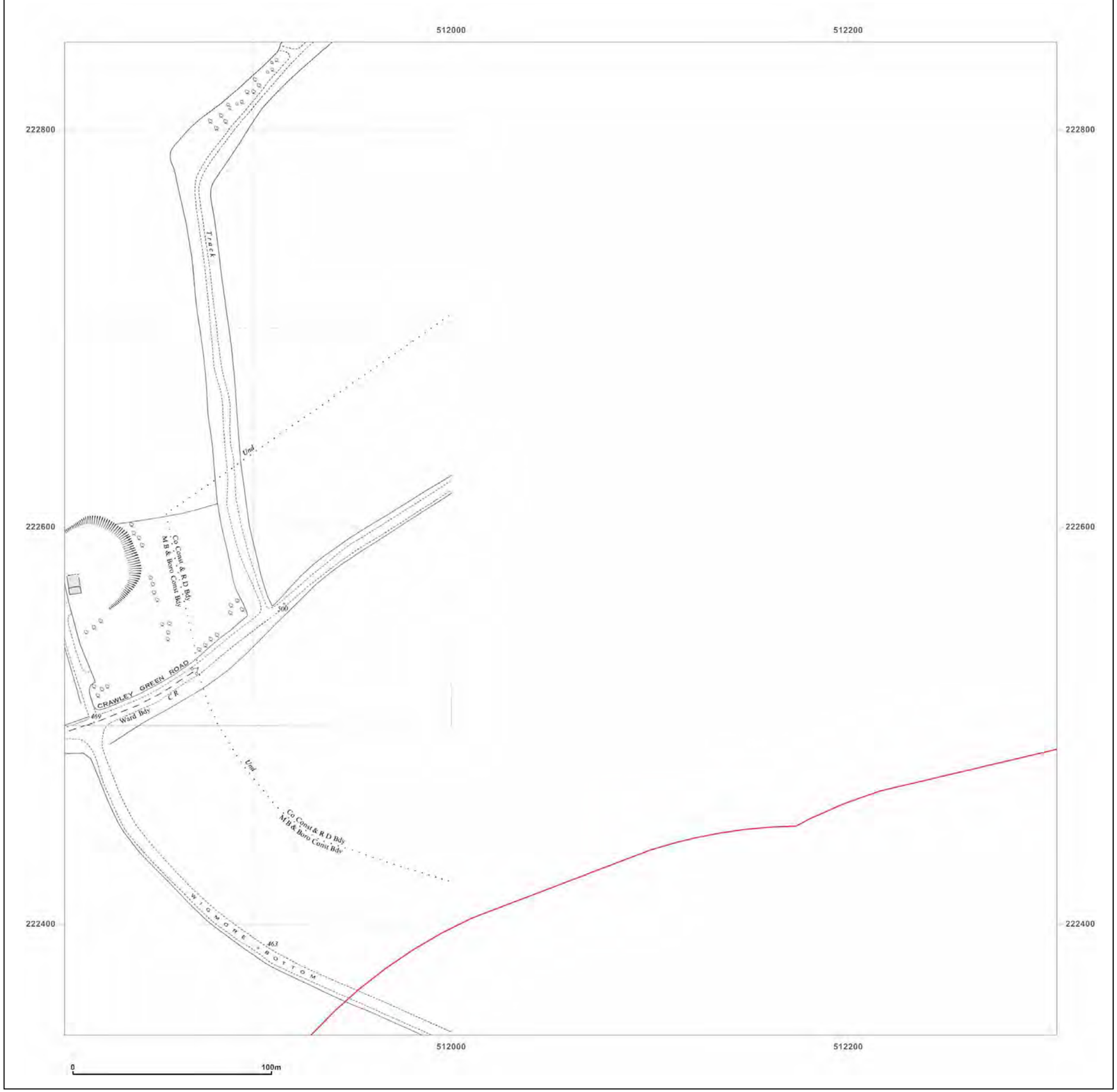

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

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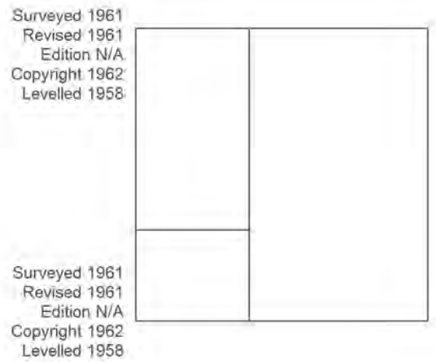

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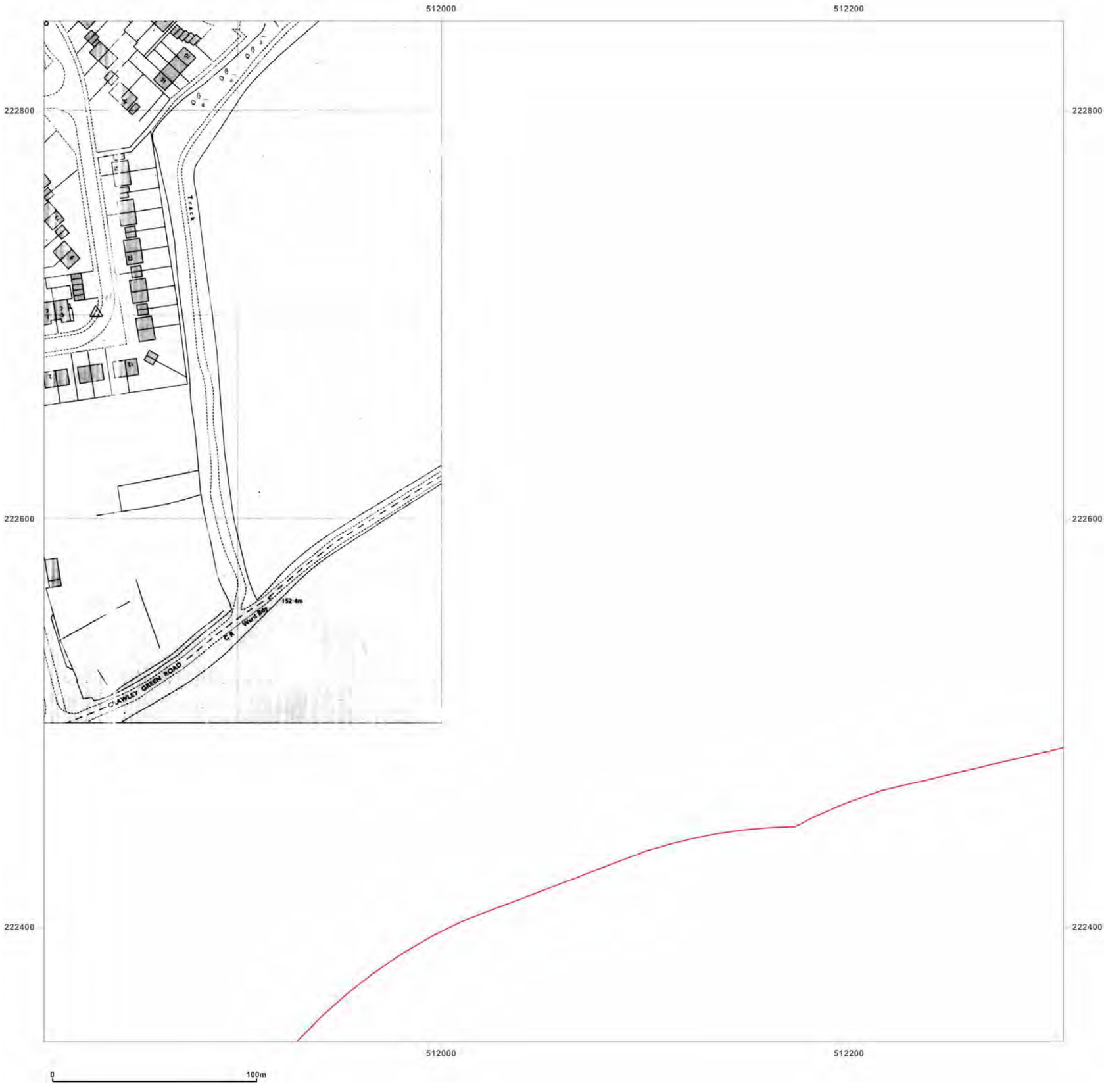

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1974**

Scale: 1:1,250

Printed at: 1:2,000

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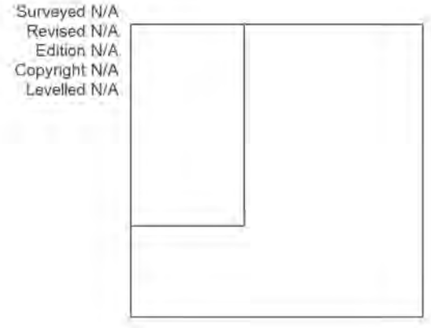

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1973-1978**

Scale: 1:1,250

Printed at: 1:2,000

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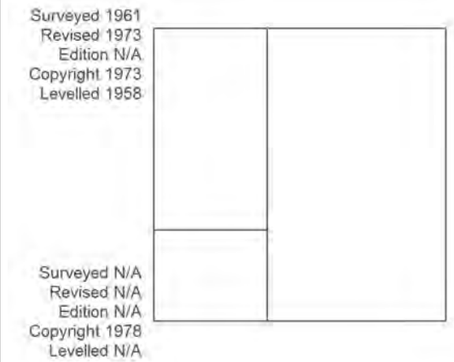

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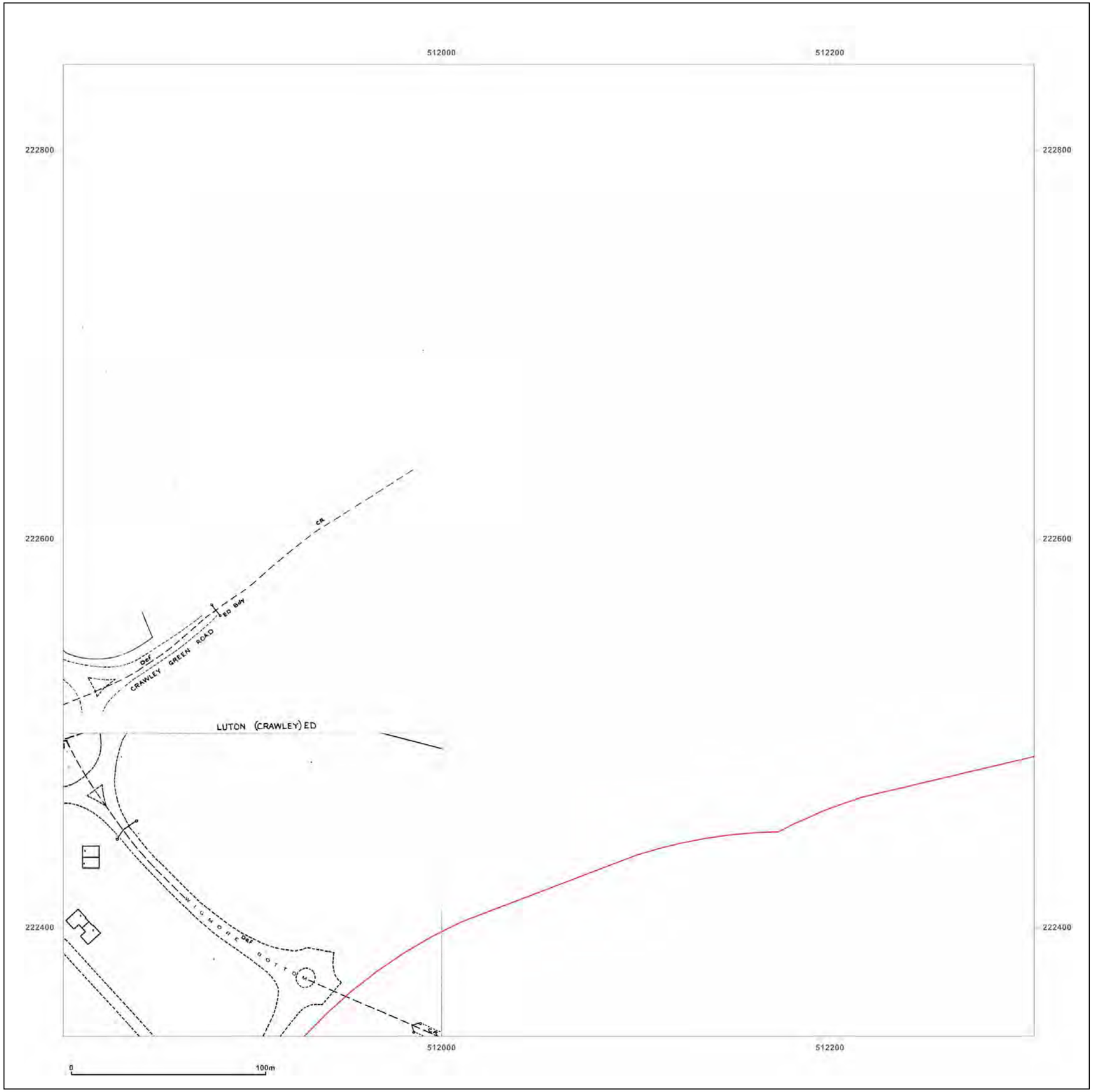

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1977-1981**

Scale: 1:1,250

Printed at: 1:2,000

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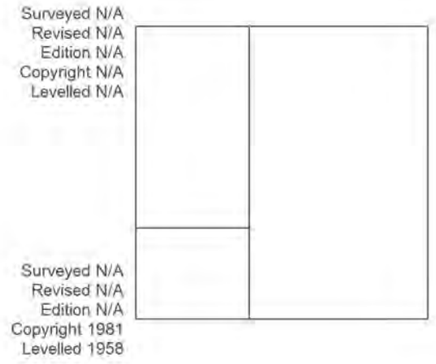

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1979-1982**

Scale: 1:1,250

Printed at: 1:2,000

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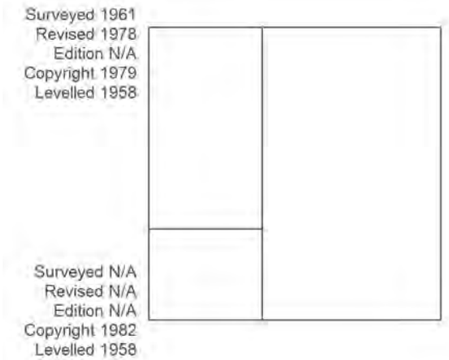

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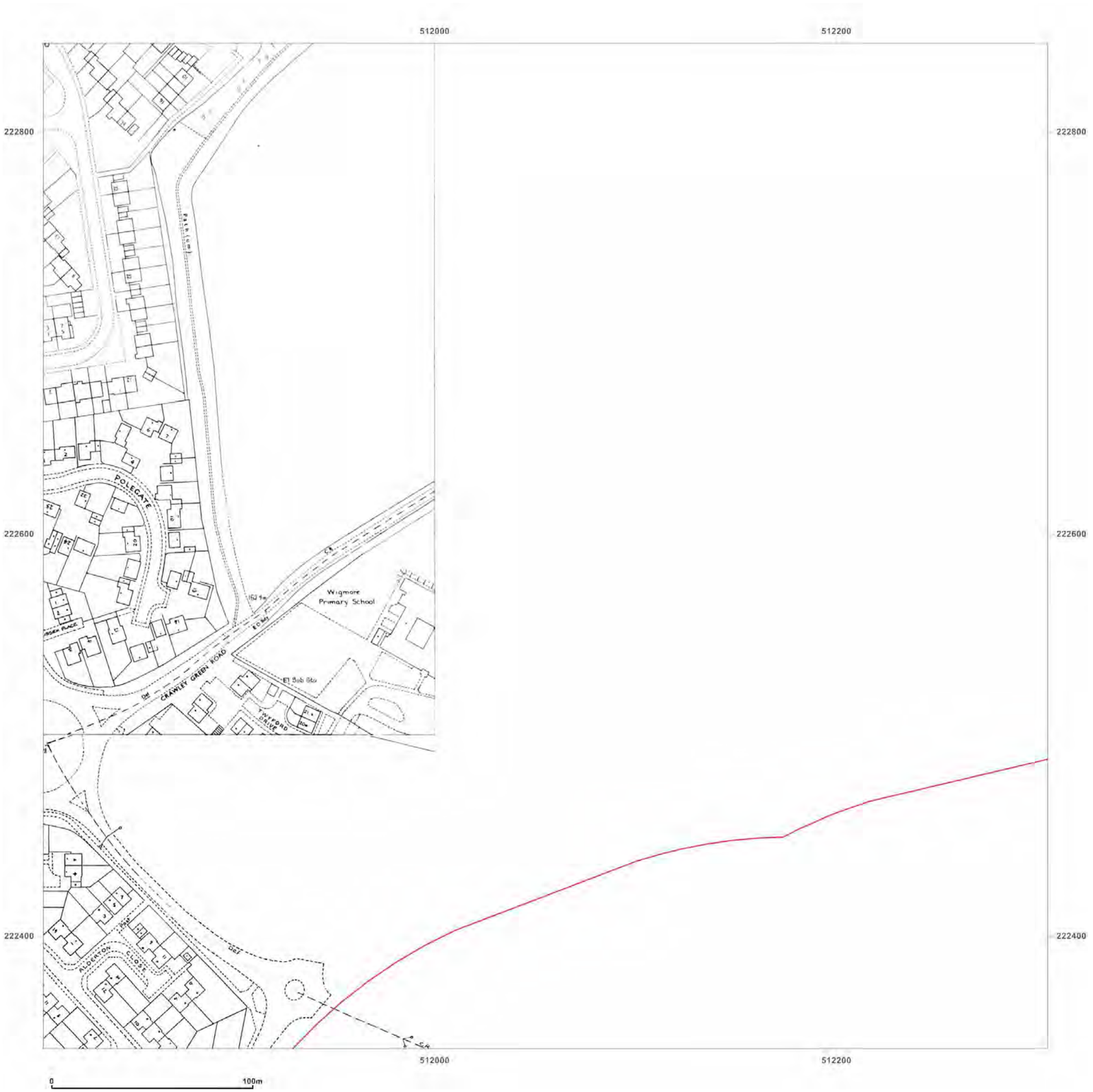

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Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1982-1984**

Scale: 1:1,250

Printed at: 1:2,000

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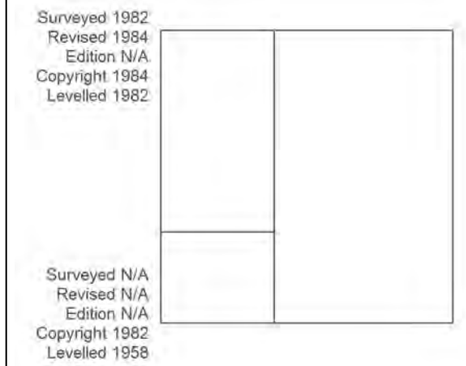

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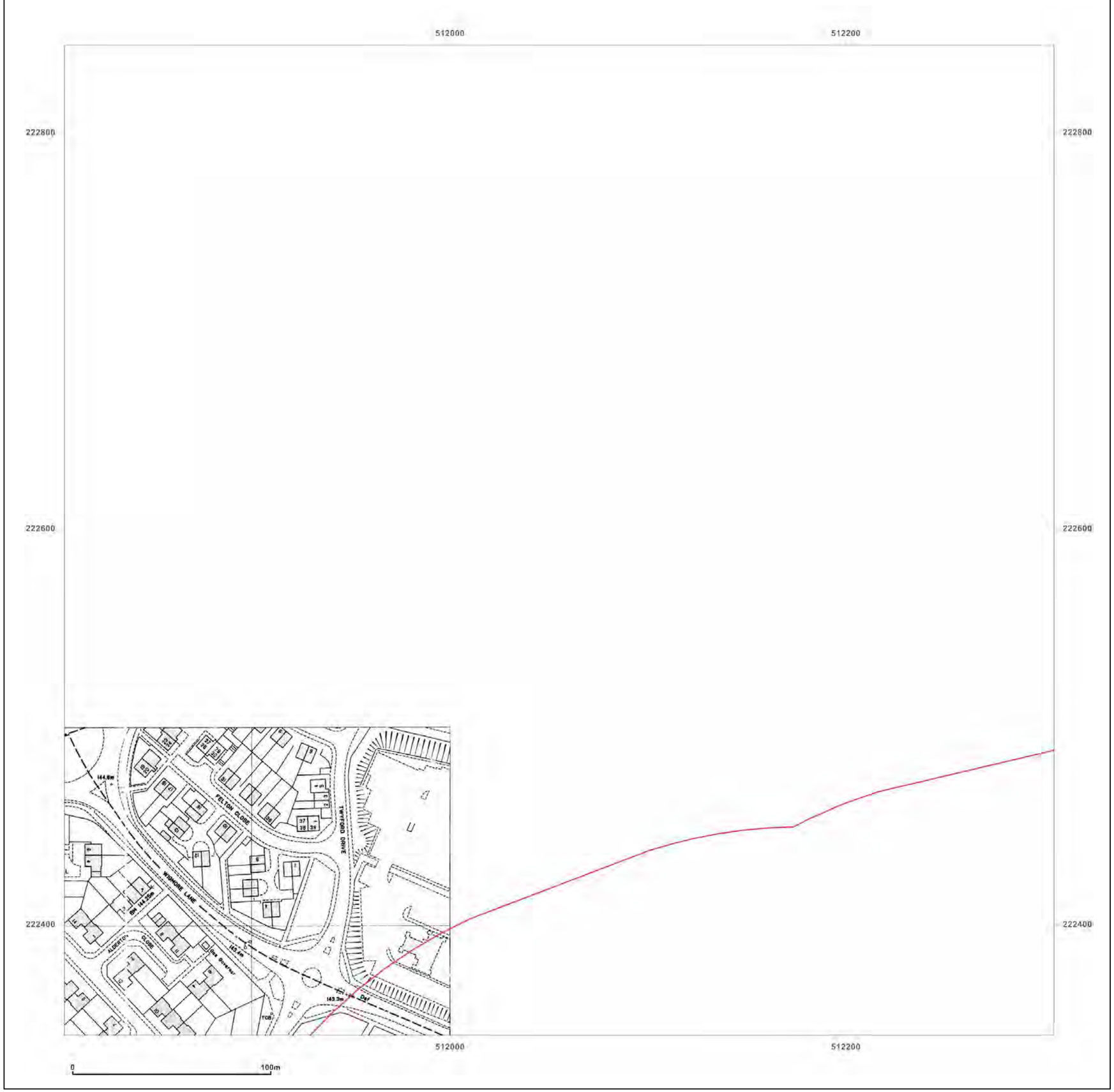

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1986**

Scale: 1:1,250

Printed at: 1:2,000

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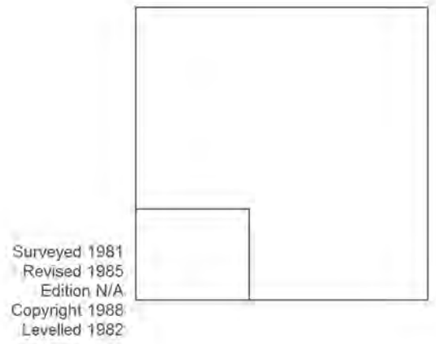

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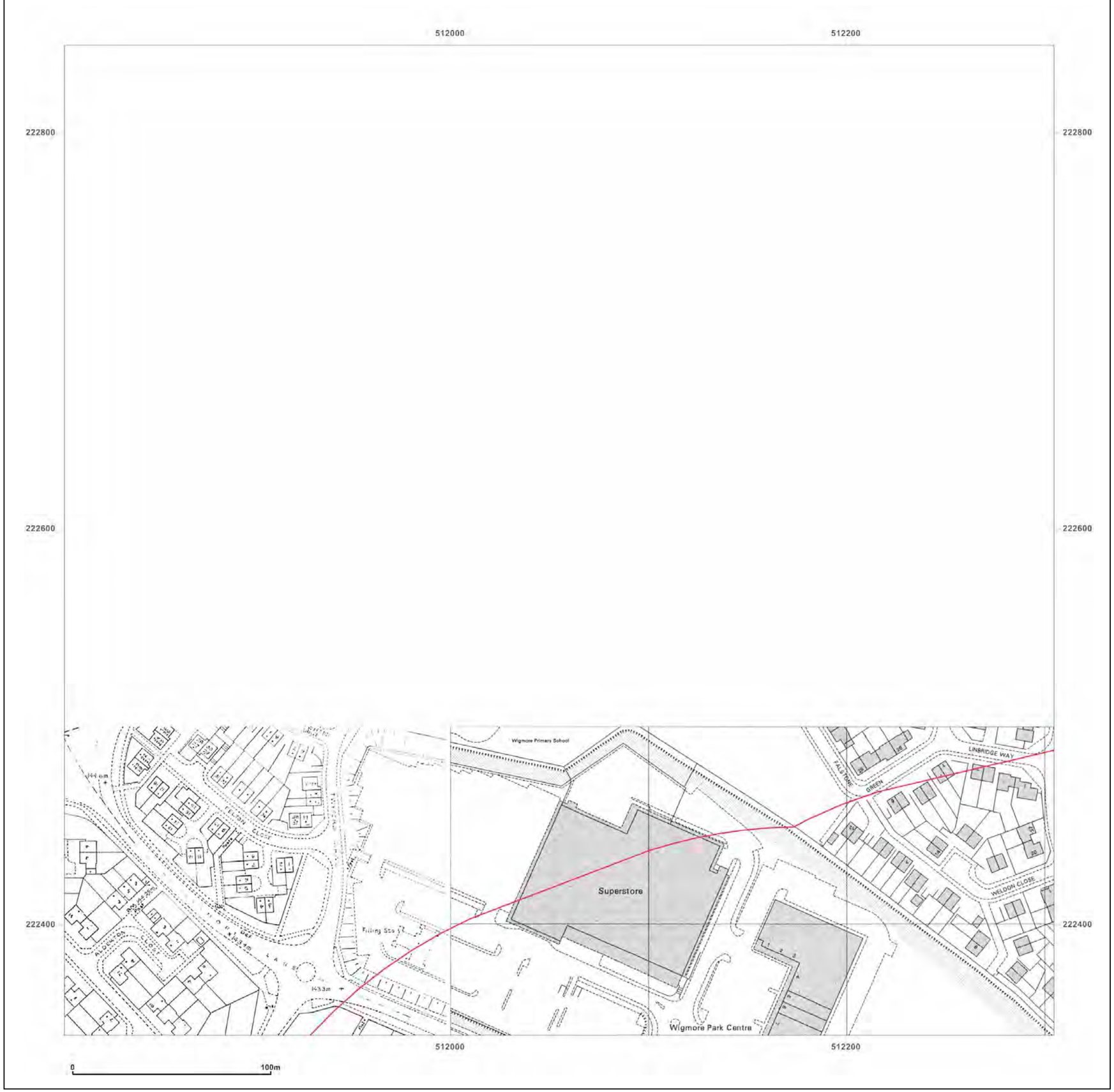

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Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1984-1989**

Scale: 1:1,250

Printed at: 1:2,000

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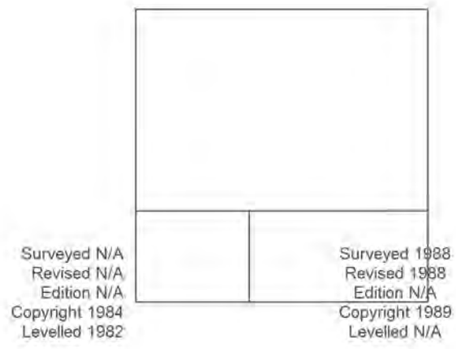

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1985-1990**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1985
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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1993
Revised N/A
Edition N/A
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Edition N/A
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Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_1_4
Grid Ref: 512055, 222594

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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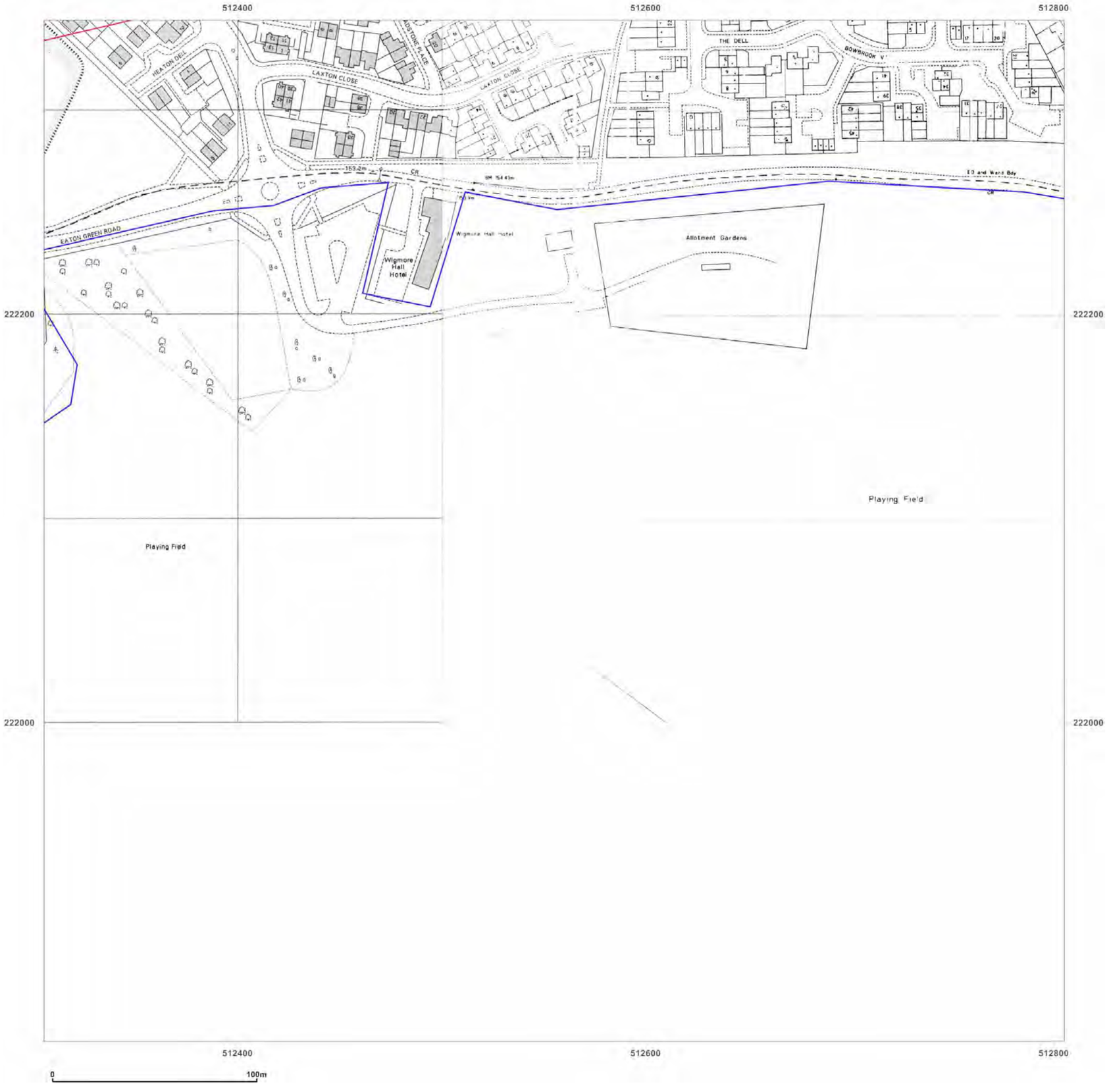

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_2_3
Grid Ref: 512555, 222094

Map Name: National Grid
Map date: **1989-1993**
Scale: 1:1,250
Printed at: 1:2,000

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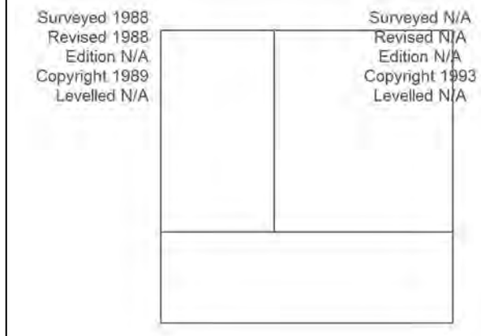

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Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_2_3
Grid Ref: 512555, 222094

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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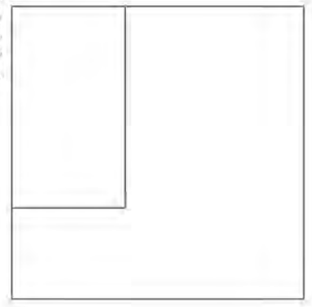

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Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_2_3
Grid Ref: 512555, 222094

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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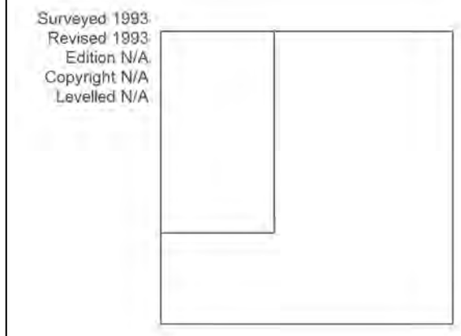

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Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_2_4
Grid Ref: 512555, 222594

Map Name: National Grid
Map date: **1989-1993**
Scale: 1:1,250
Printed at: 1:2,000

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Groundsure INSIGHTS

Site Details:

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Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_2_4
Grid Ref: 512555, 222594

Map Name: National Grid
Map date: **1993-1994**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_2_4
Grid Ref: 512555, 222594

Map Name: National Grid
Map date: **1993-1994**
Scale: 1:1,250
Printed at: 1:2,000

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Revised 1994
Edition N/A
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Surveyed 1993
Revised 1993
Edition N/A
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Groundsure INSIGHTS

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_2_4
Grid Ref: 512555, 222594

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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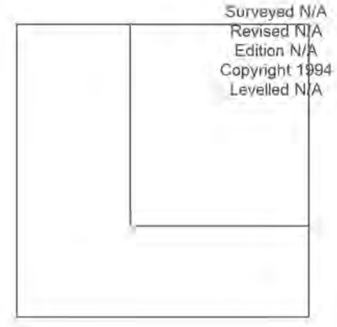

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Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_2_4
Grid Ref: 512555, 222594

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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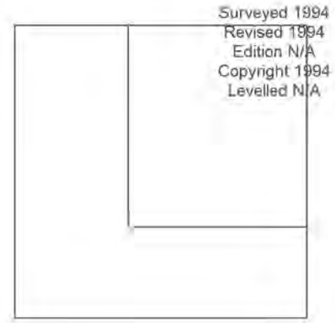

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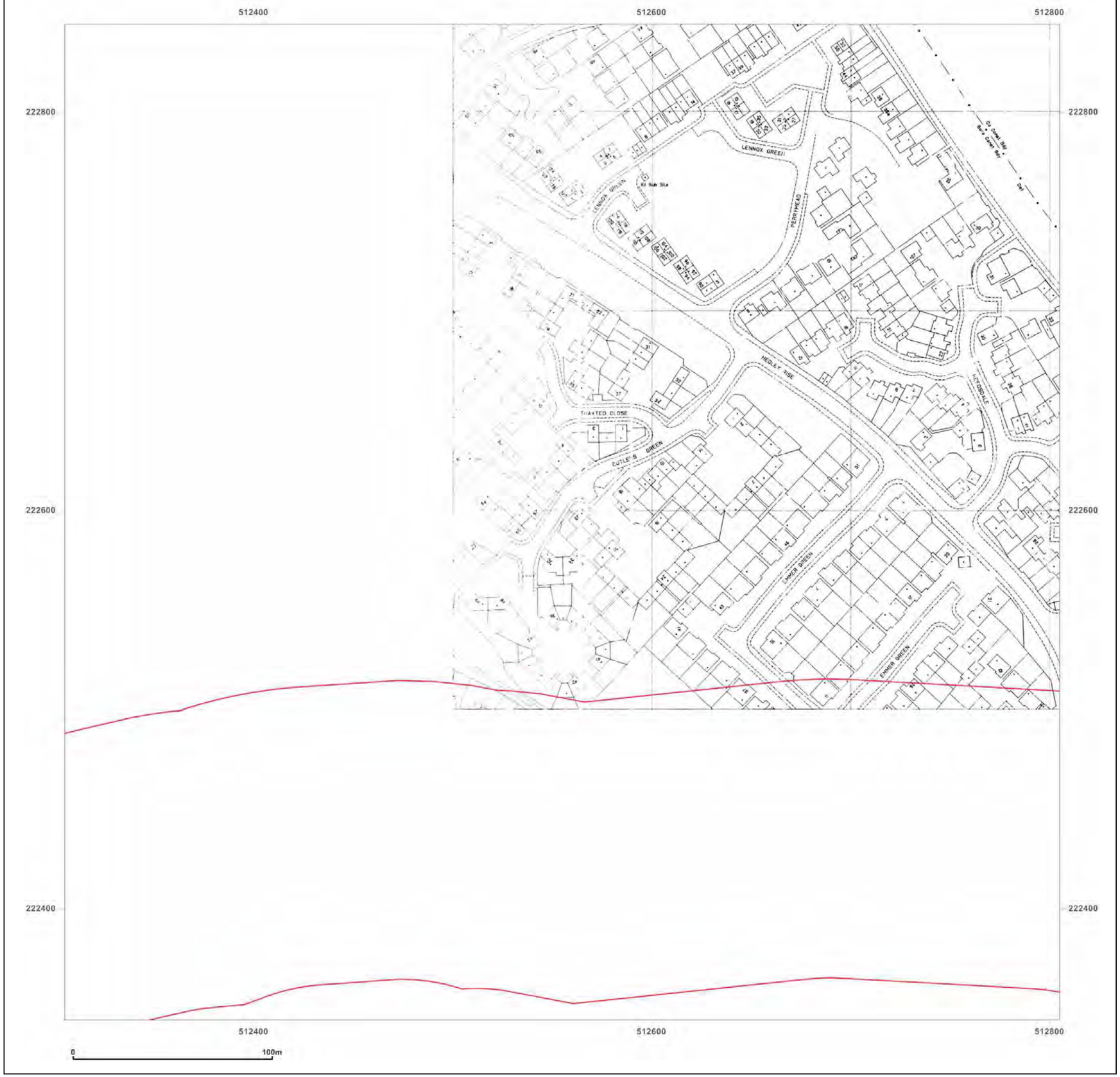

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_2_4
Grid Ref: 512555, 222594

Map Name: National Grid

Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

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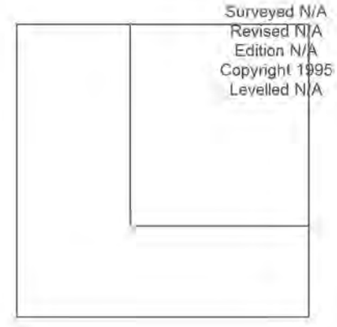

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Production date: 16 October 2018

Map legend available at:
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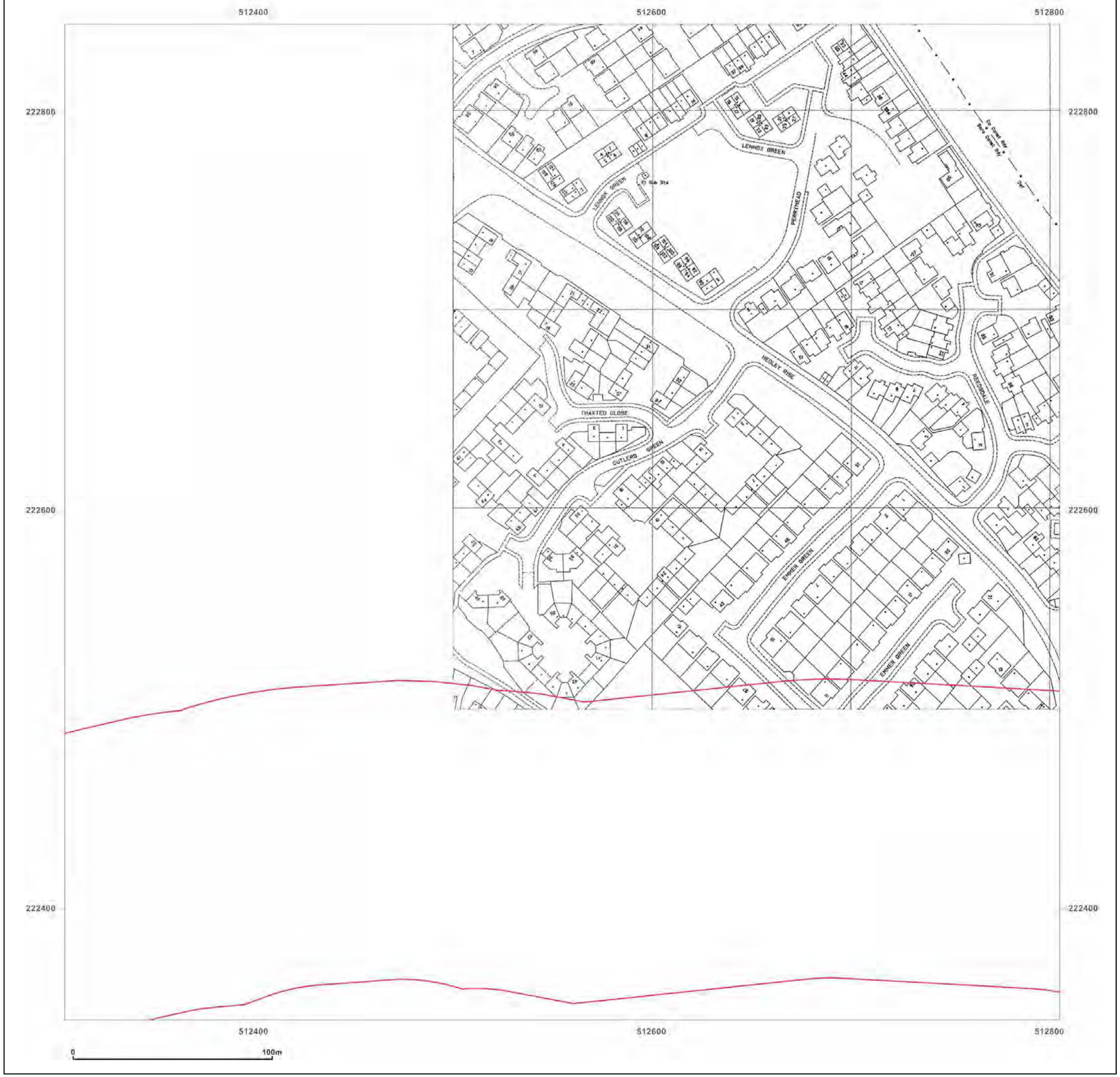

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_2_4
Grid Ref: 512555, 222594

Map Name: National Grid

Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

N
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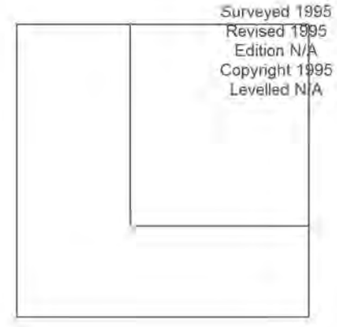

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Production date: 16 October 2018

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Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_3_3
Grid Ref: 513055, 222094

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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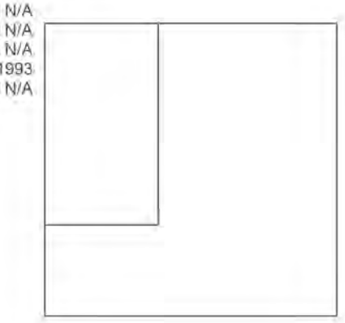
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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Production date: 16 October 2018

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Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_3_4
Grid Ref: 513055, 222594

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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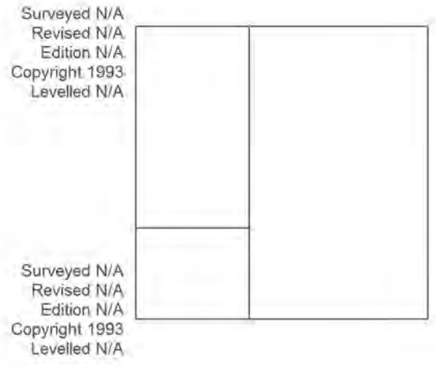

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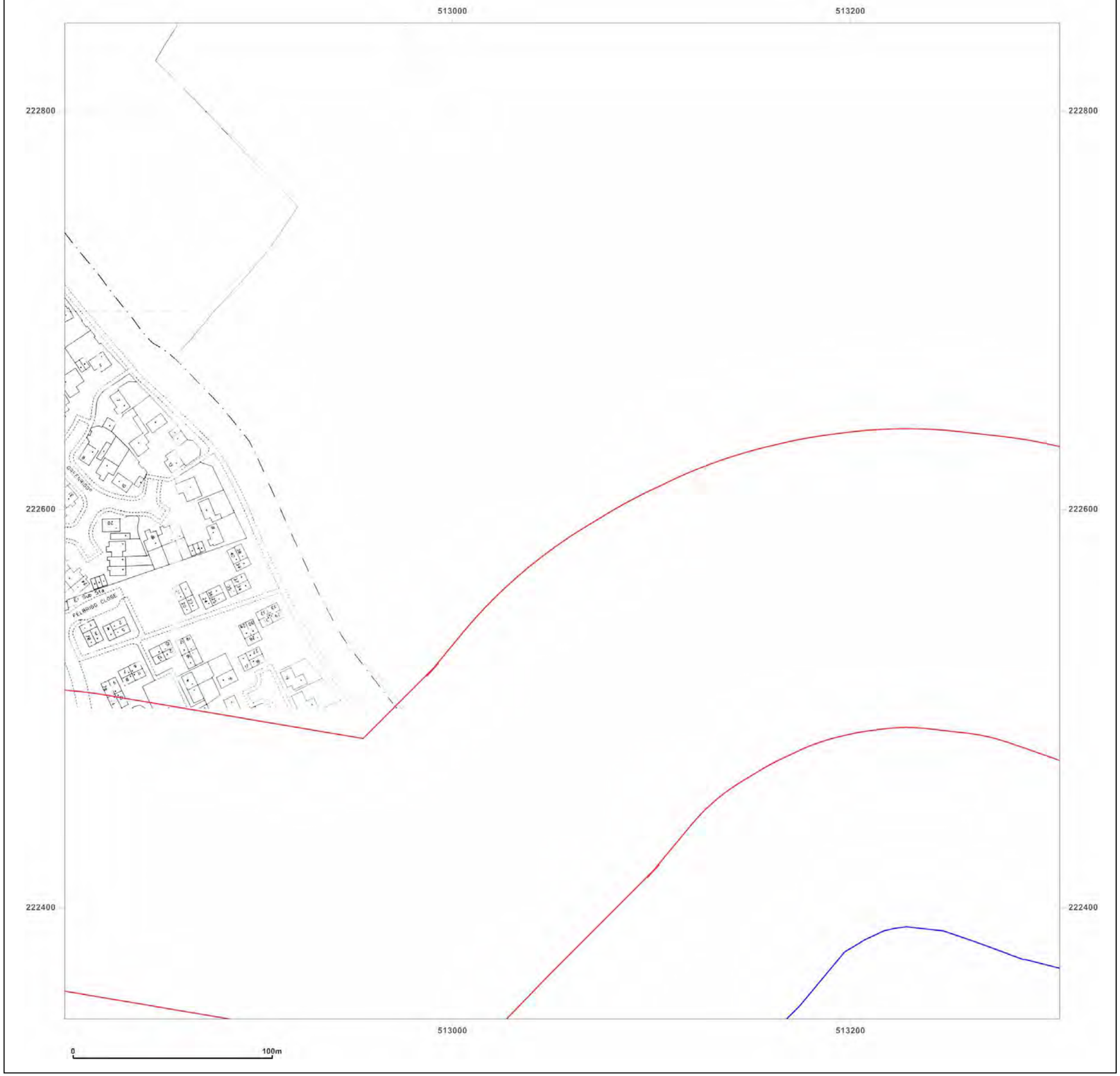

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_3_4
Grid Ref: 513055, 222594

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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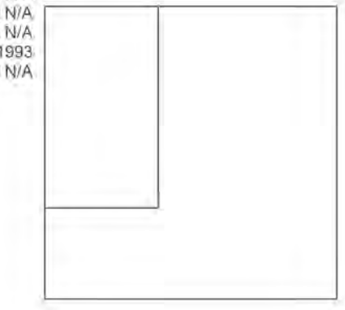
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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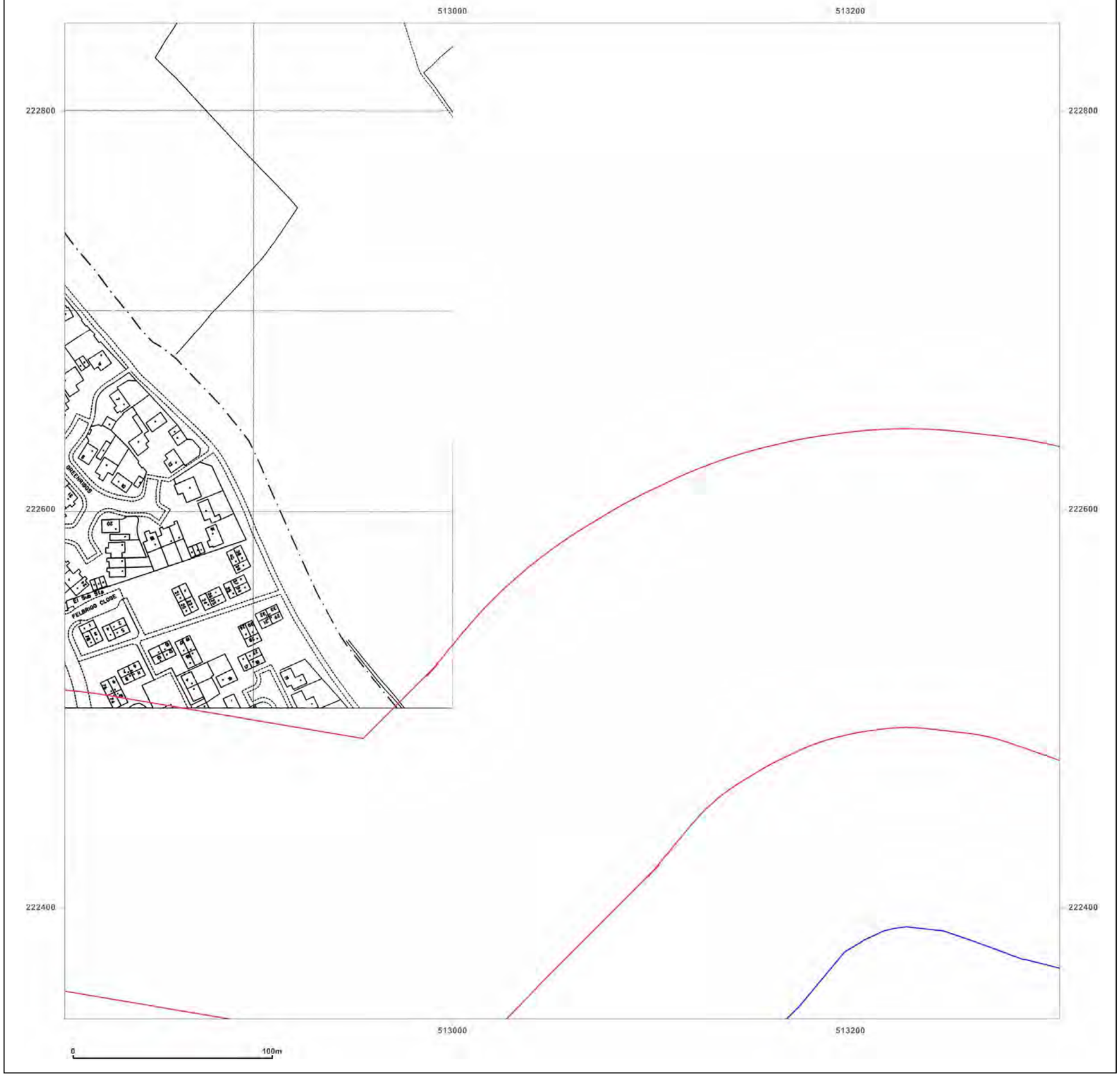

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_3_4
Grid Ref: 513055, 222594

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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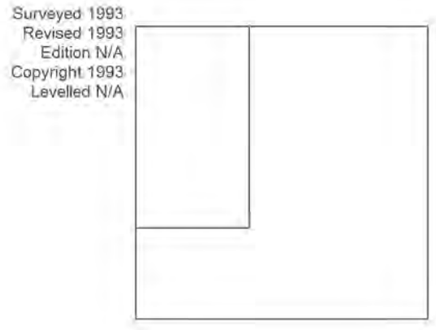

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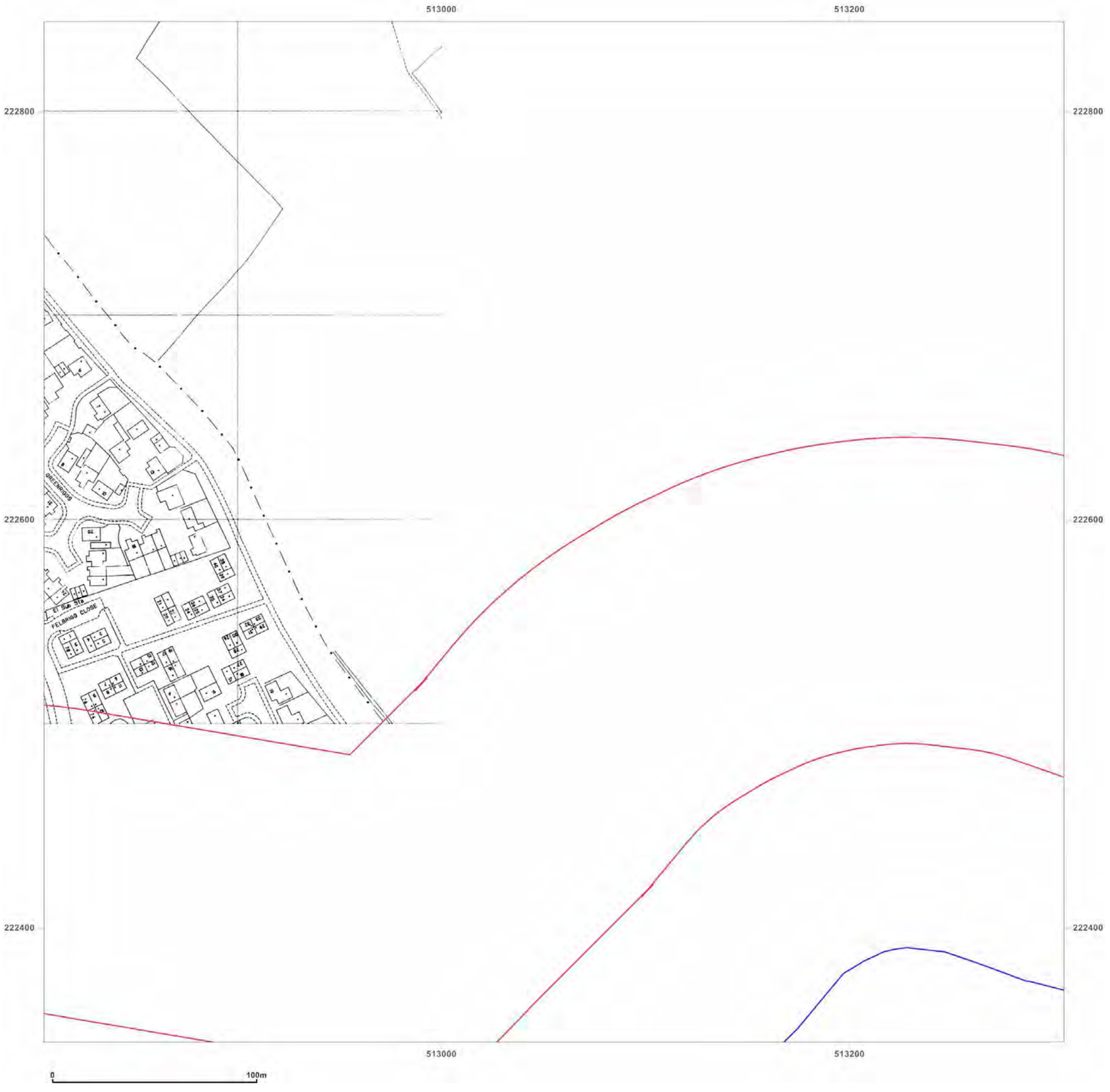

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_3_4
Grid Ref: 513055, 222594

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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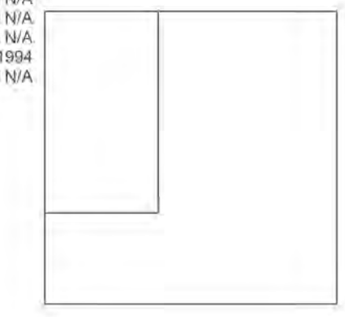
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A



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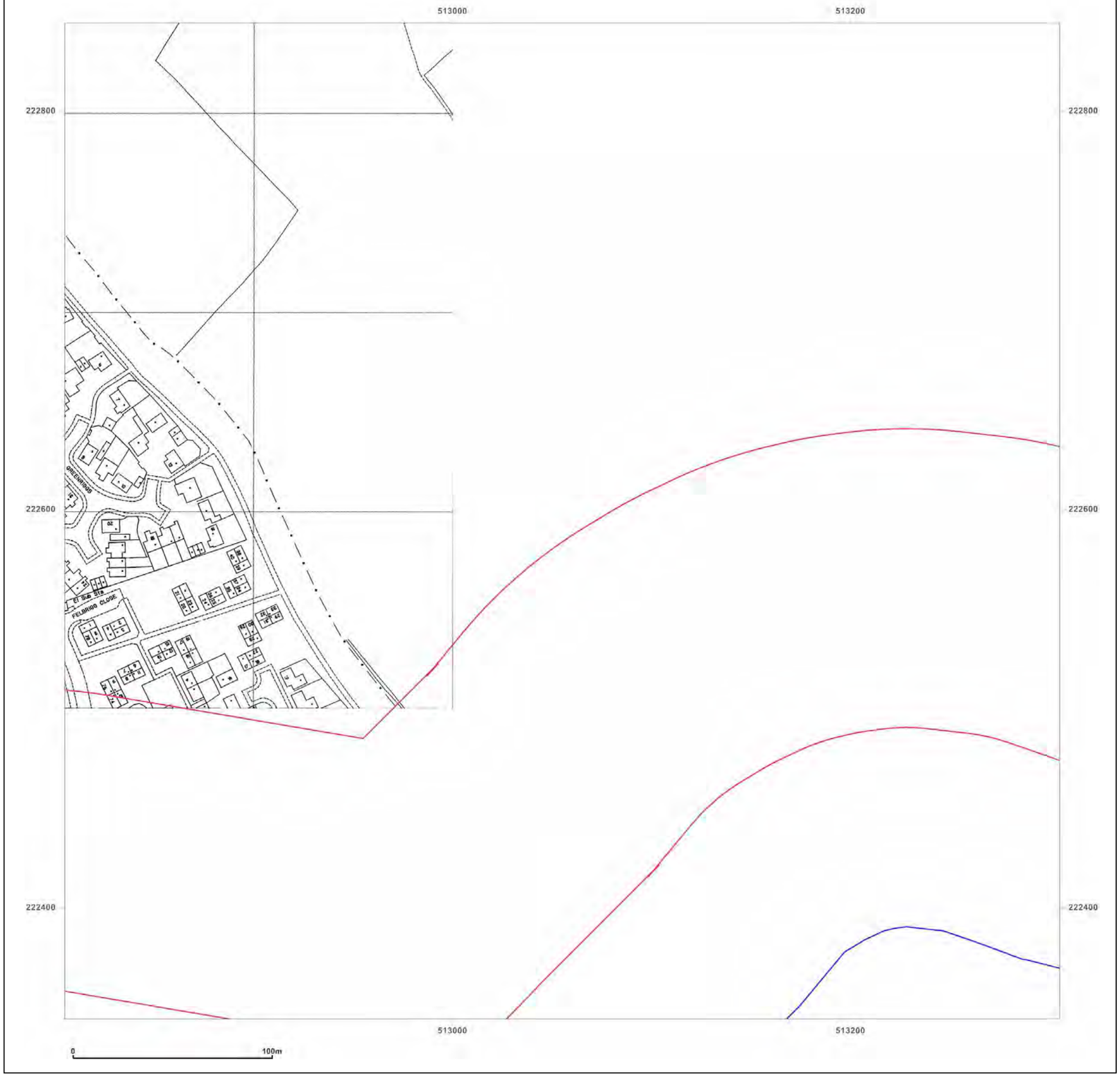

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_3_4
Grid Ref: 513055, 222594

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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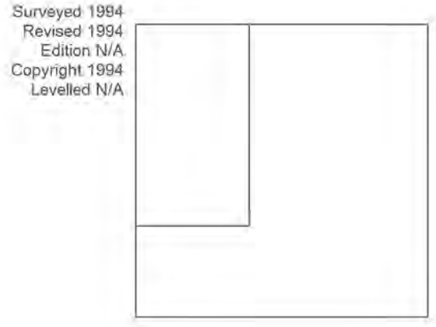

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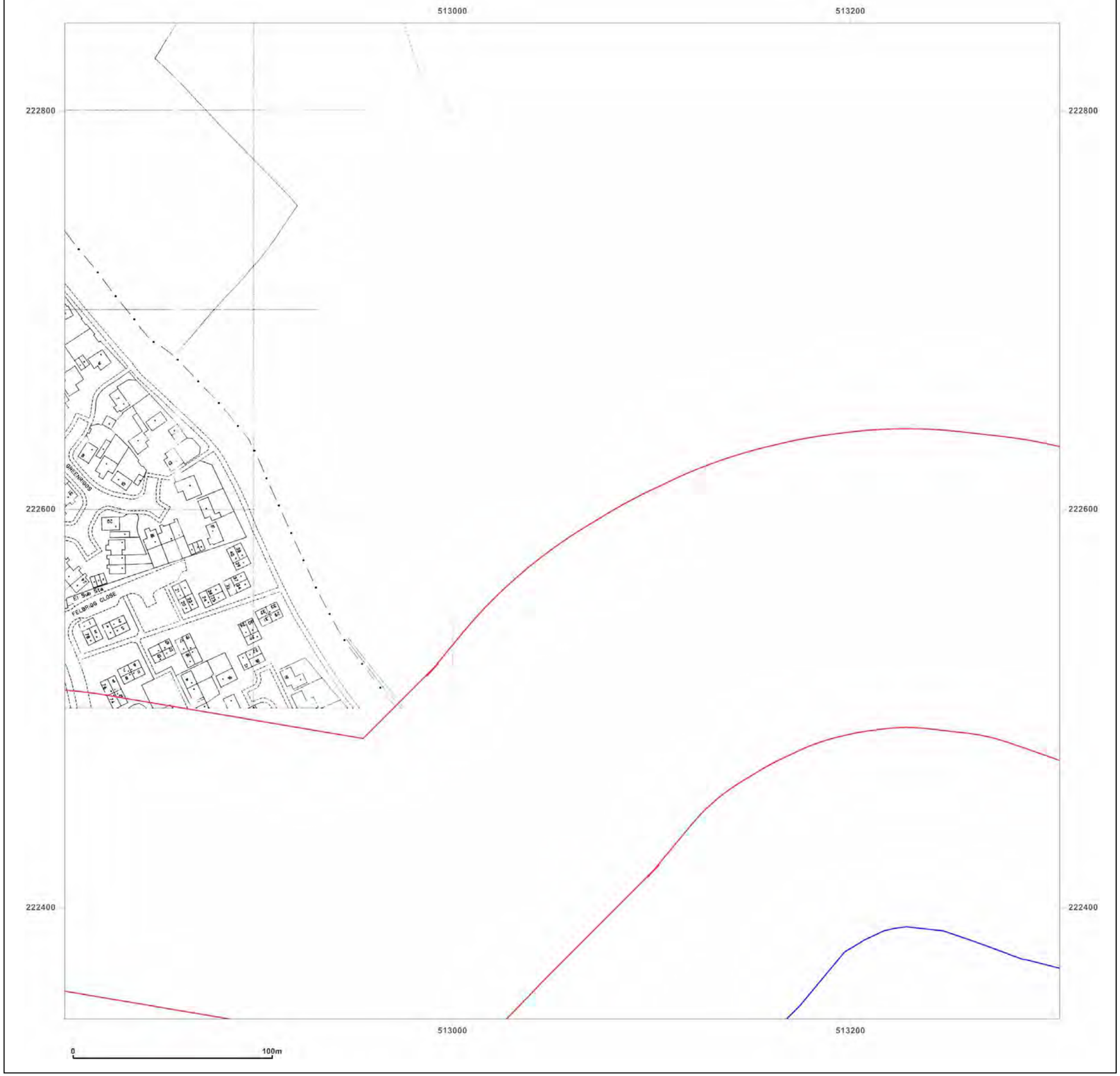

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_3_4
Grid Ref: 513055, 222594

Map Name: National Grid

Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

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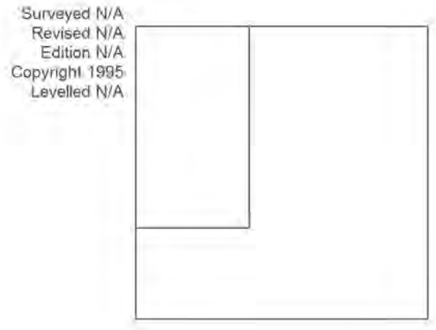

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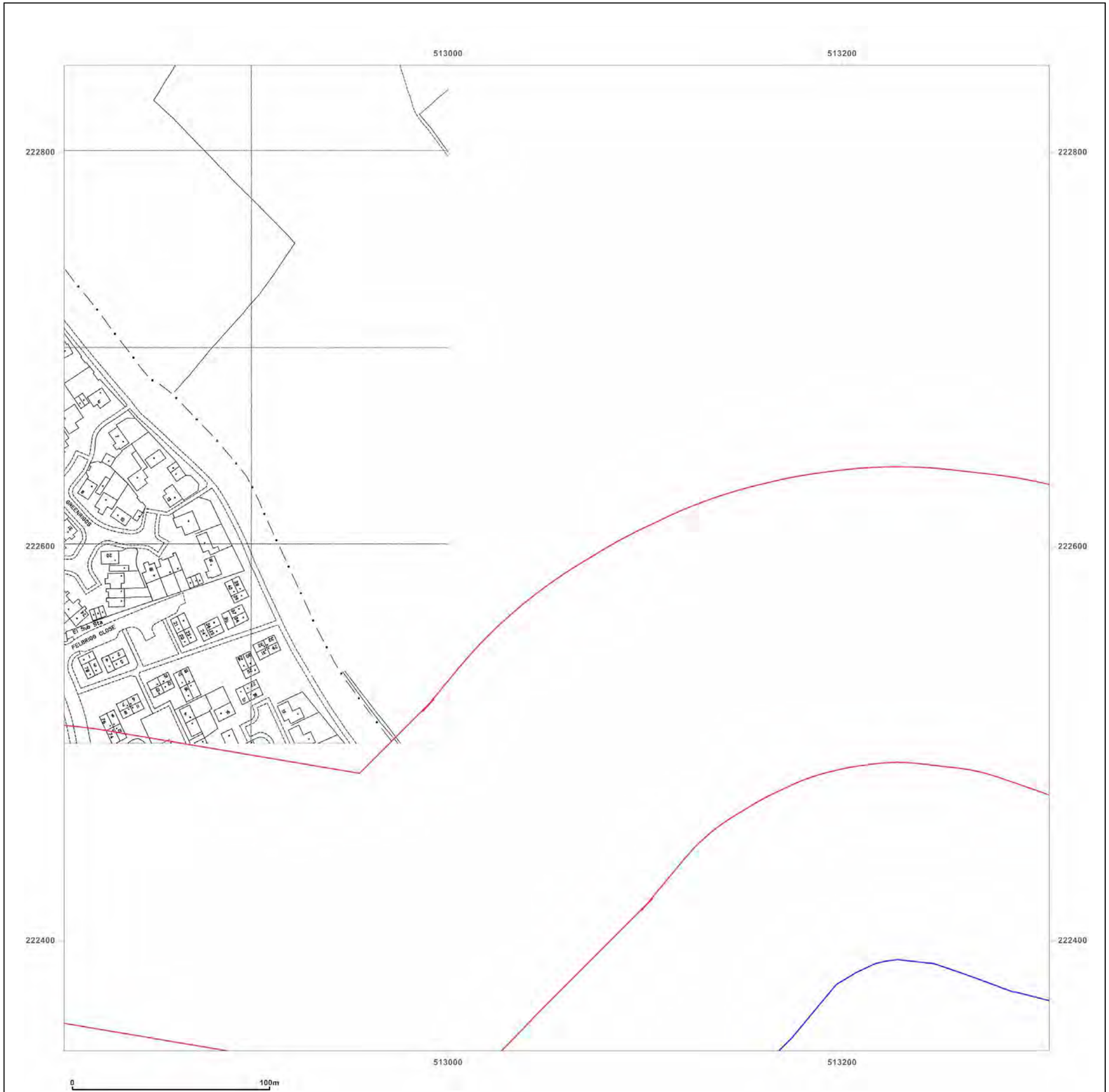

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_1250scale_3_4
Grid Ref: 513055, 222594

Map Name: National Grid

Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

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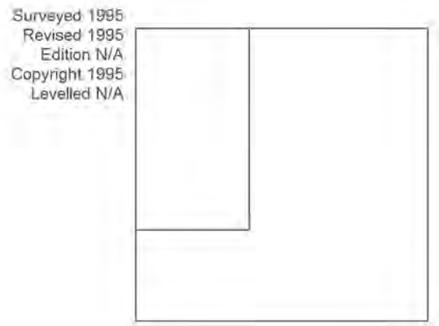

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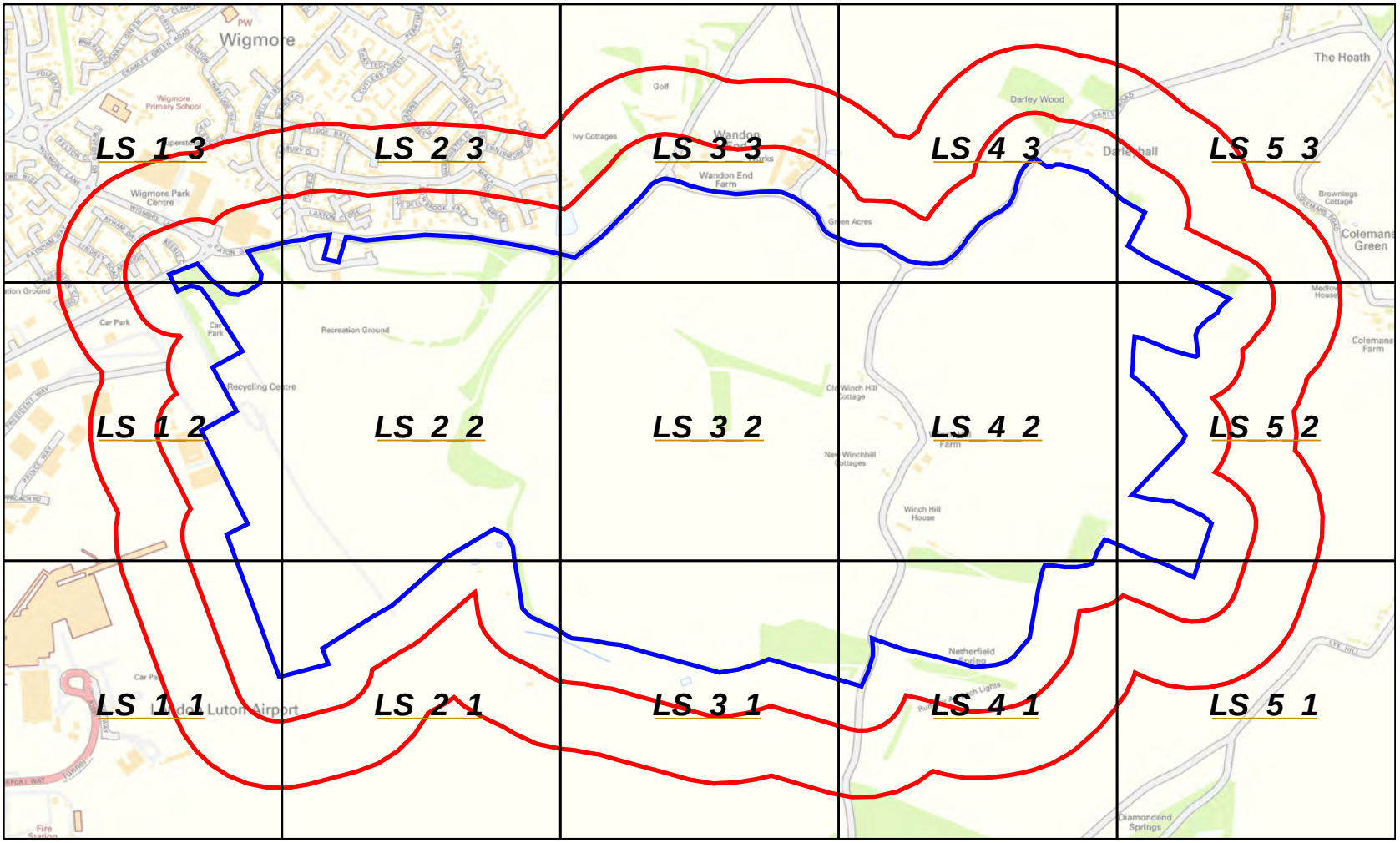

Groundsure INSIGHTS

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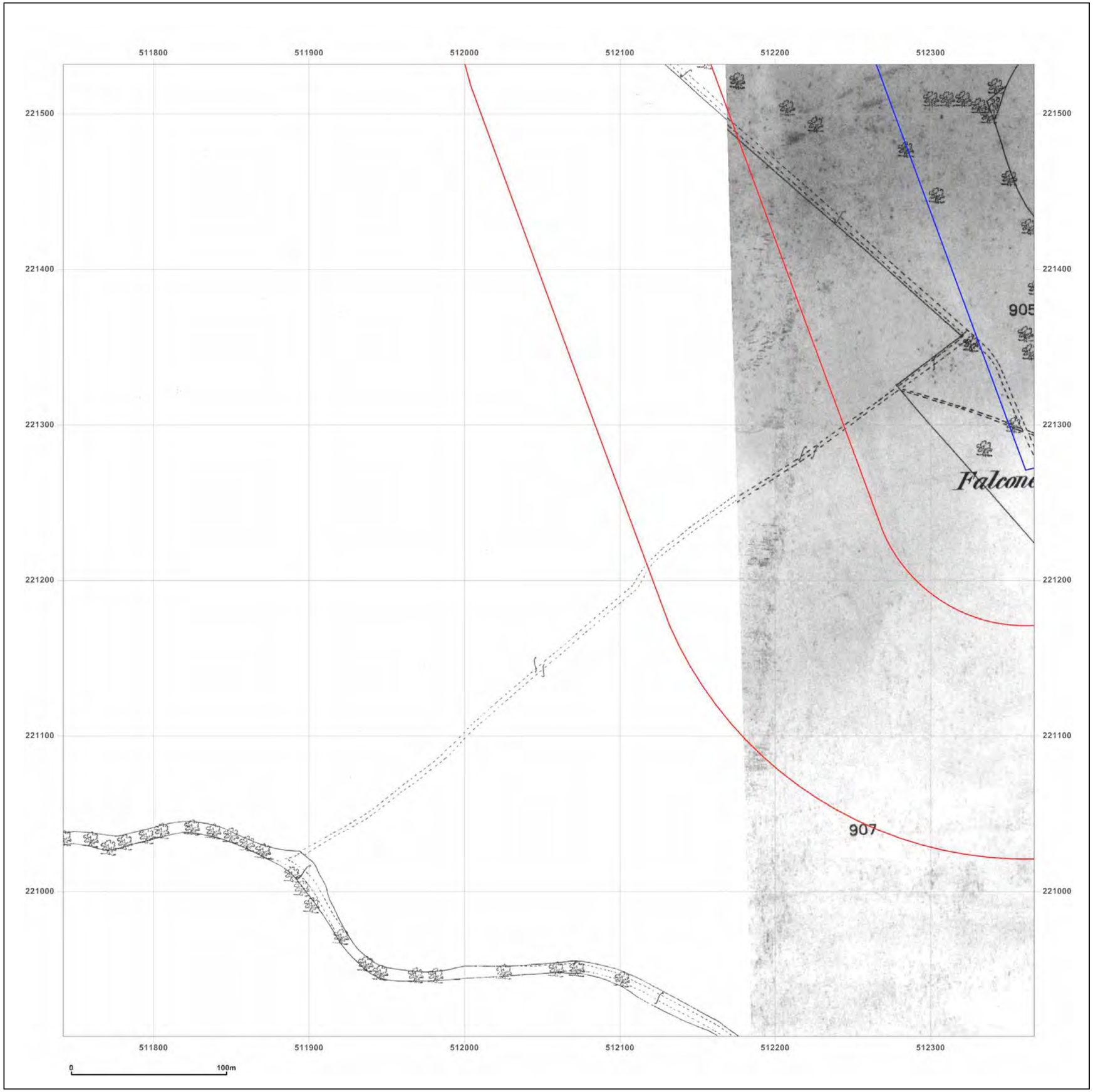
1:2500 Scale Grid Index



Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_1
Grid Ref: 512054, 221219

Map Name: County Series

Map date: **1880-1881**

Scale: 1:2,500

Printed at: 1:2,500

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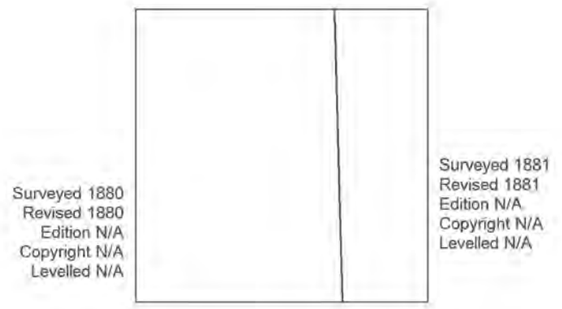

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Production date: 16 October 2018

Map legend available at:
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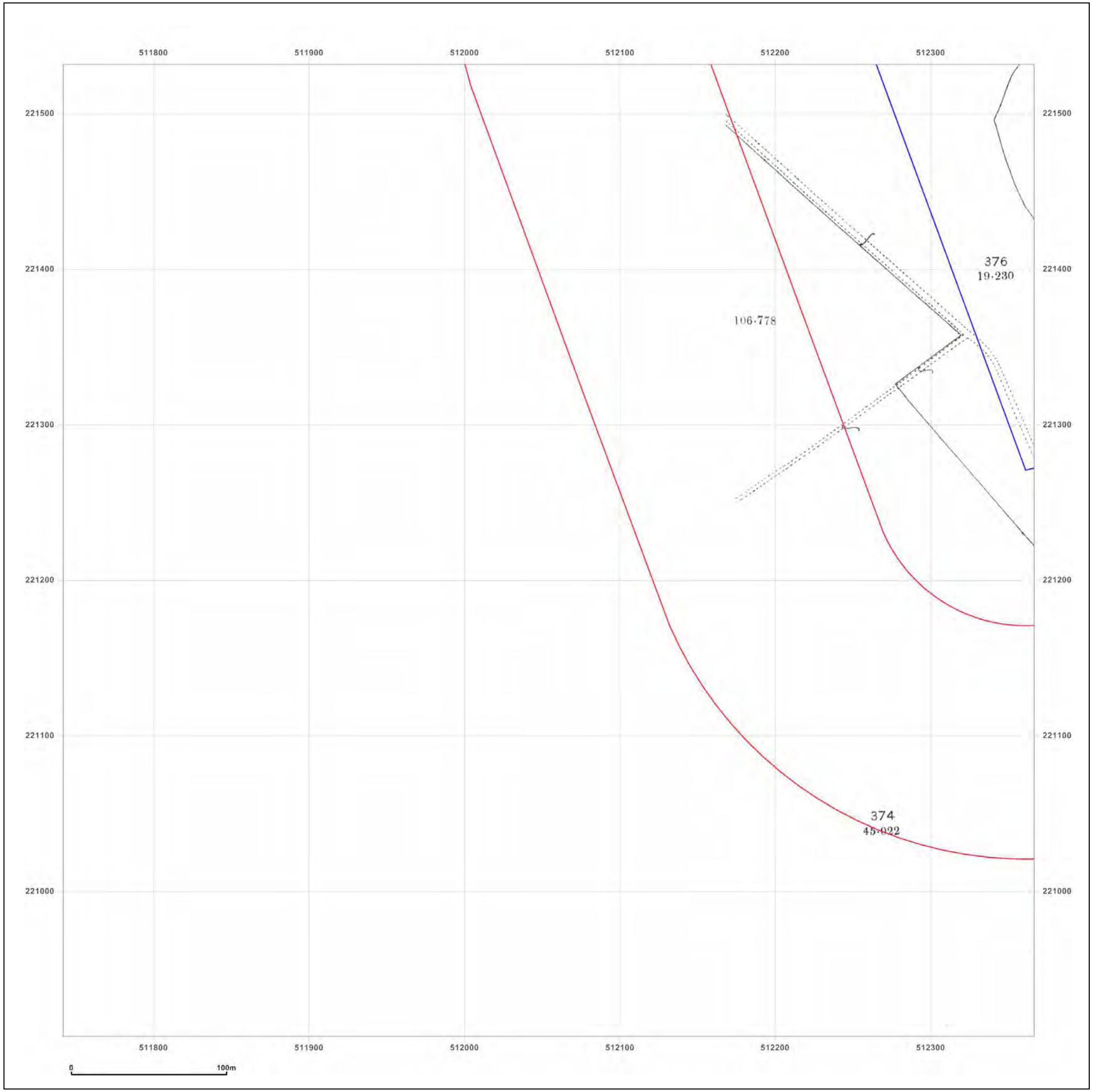

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_1
Grid Ref: 512054, 221219

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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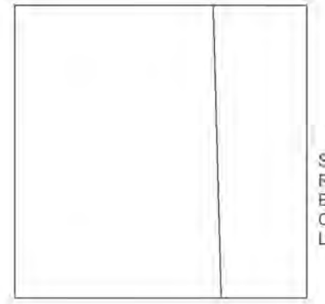

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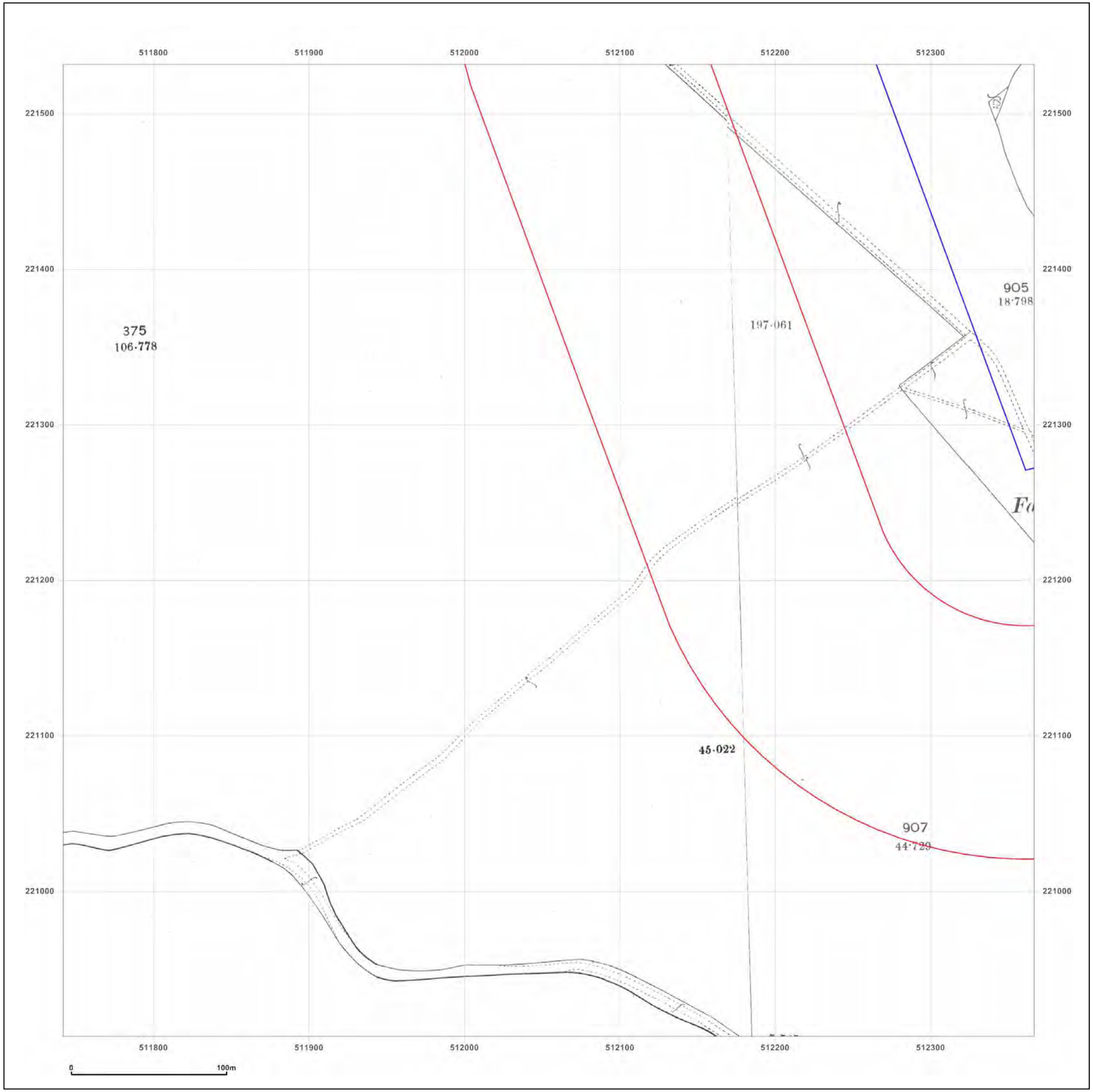

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_1
Grid Ref: 512054, 221219

Map Name: County Series

Map date: **1898-1901**

Scale: 1:2,500

Printed at: 1:2,500

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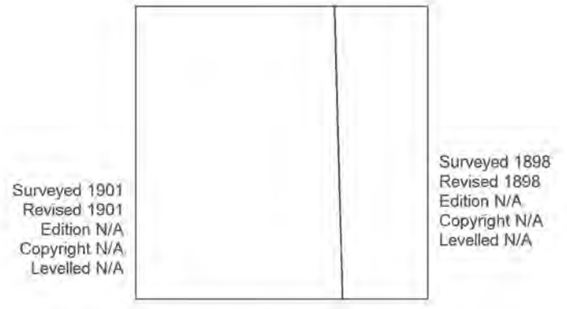

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Production date: 16 October 2018

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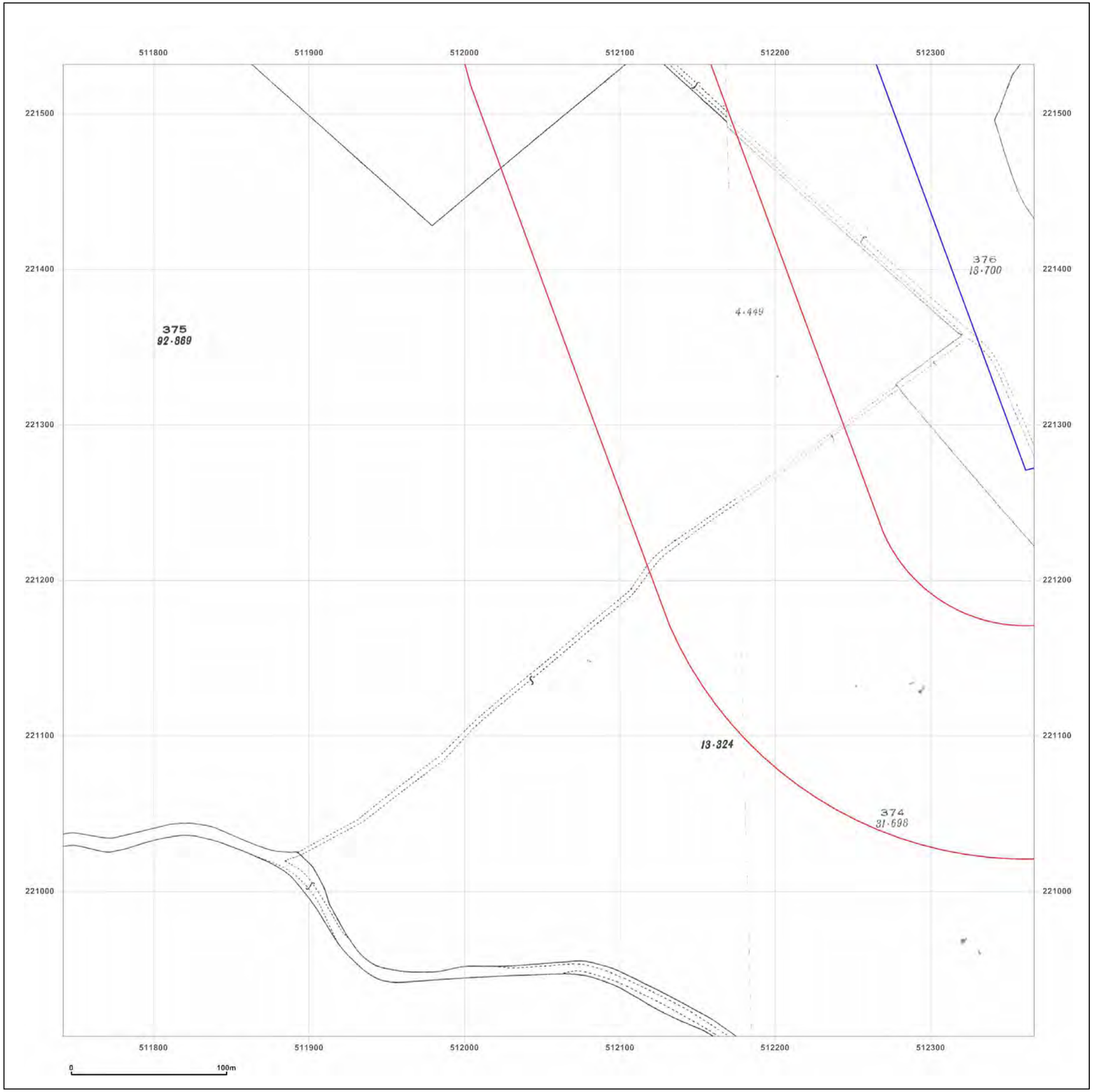

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_1
Grid Ref: 512054, 221219

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

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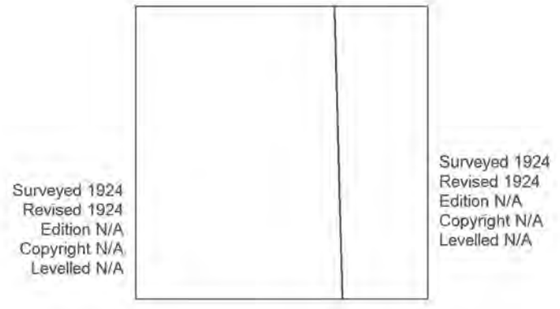

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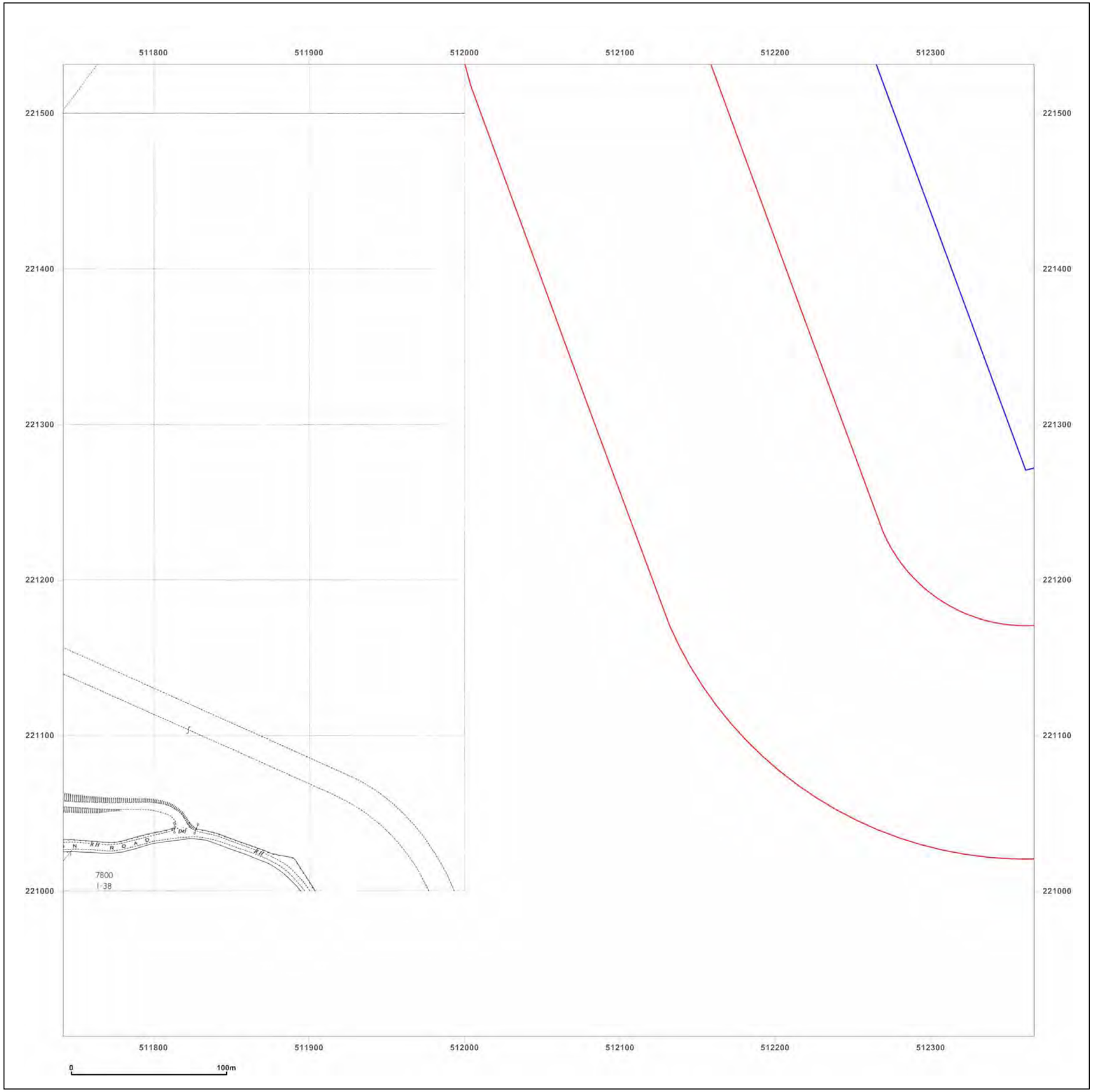

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_1
Grid Ref: 512054, 221219

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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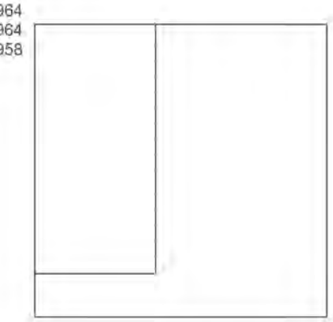
Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958



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Production date: 16 October 2018

Map legend available at:
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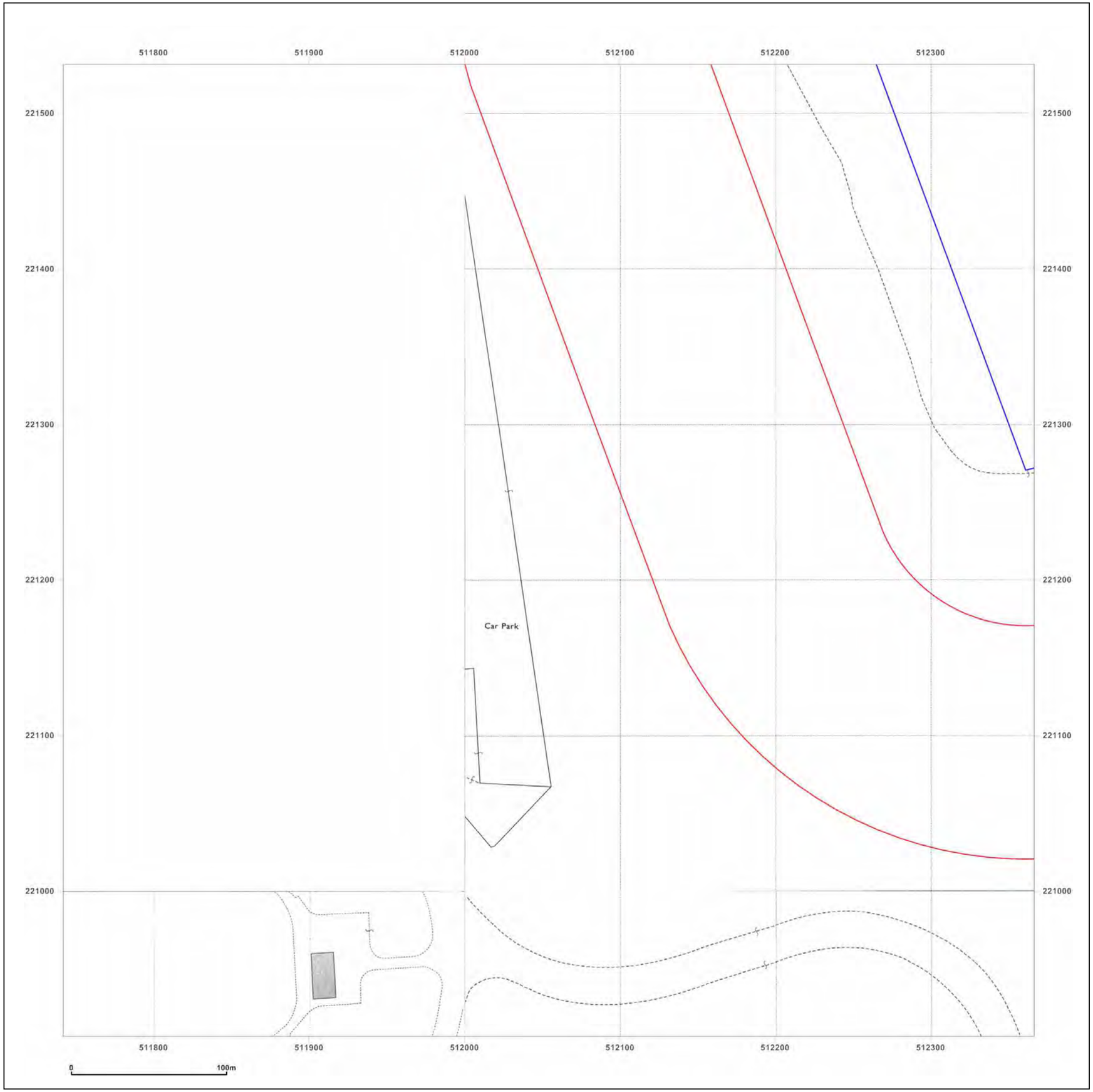

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_1
Grid Ref: 512054, 221219

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
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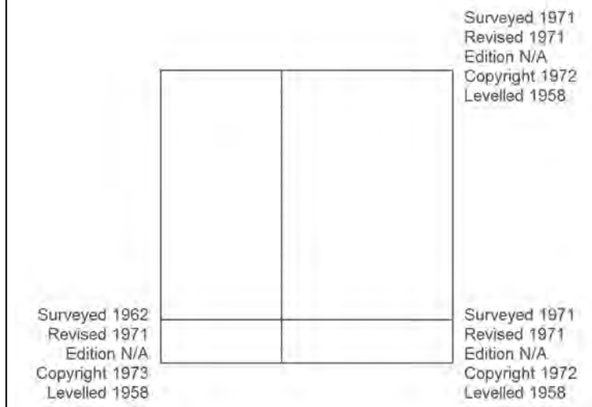

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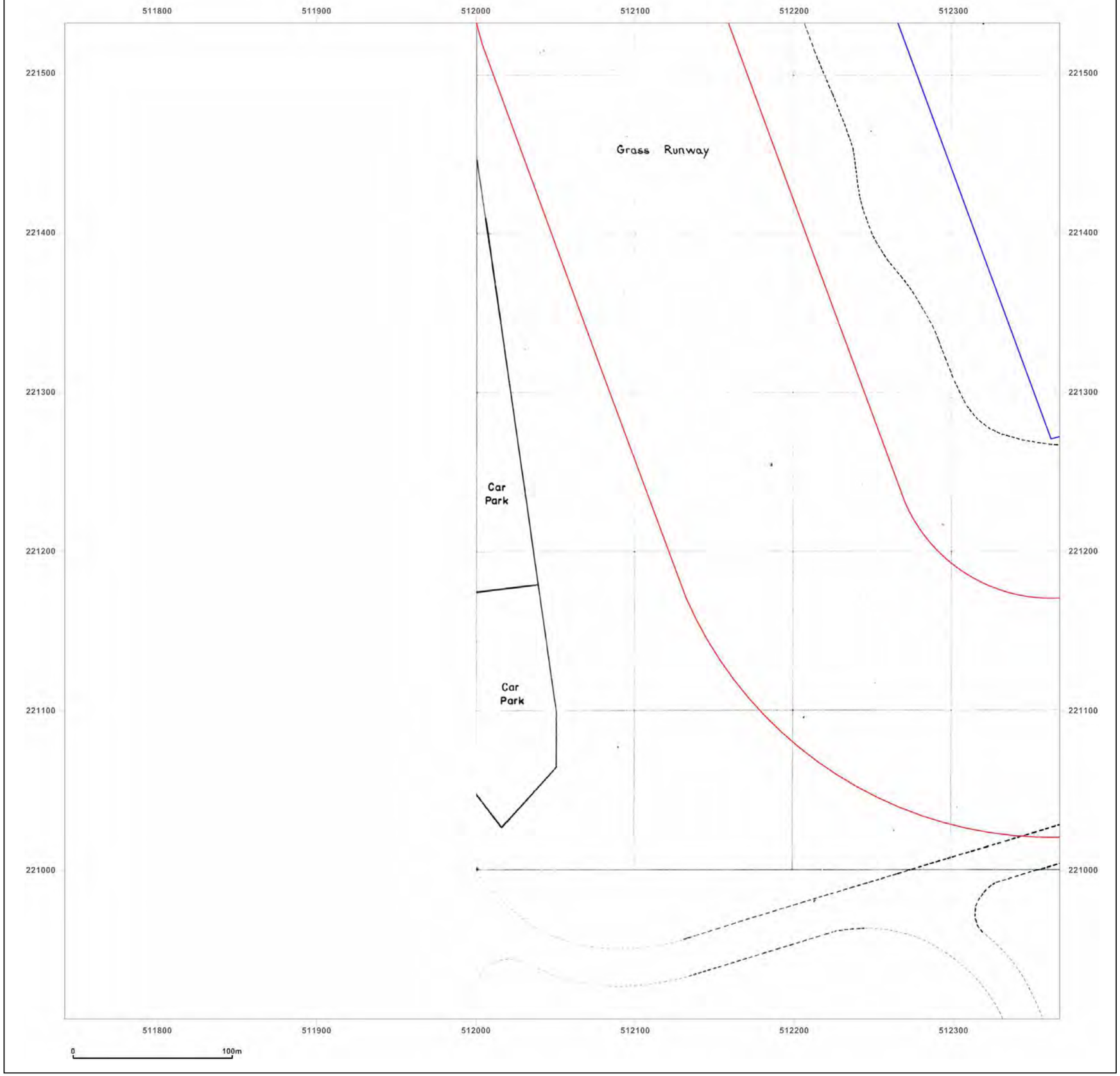

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_1
Grid Ref: 512054, 221219

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

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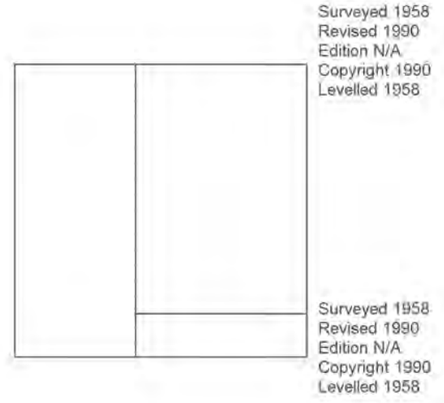

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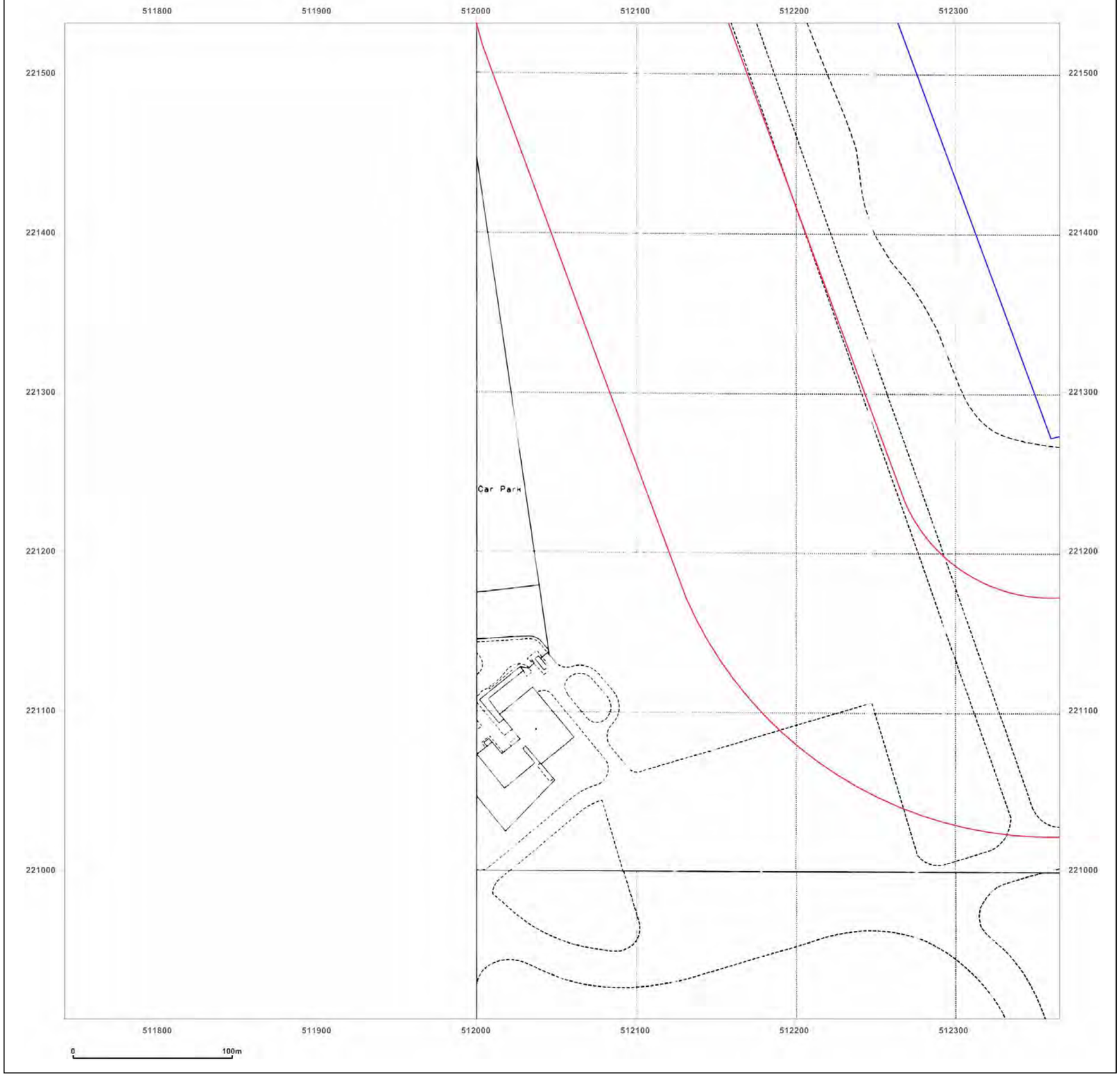

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_1
Grid Ref: 512054, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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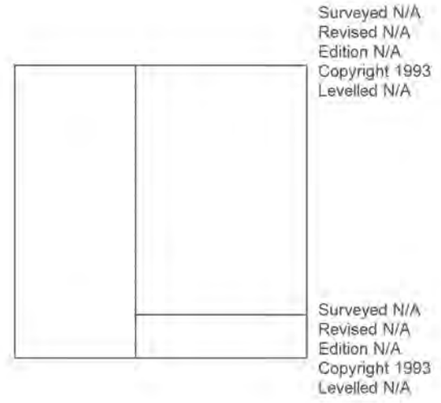

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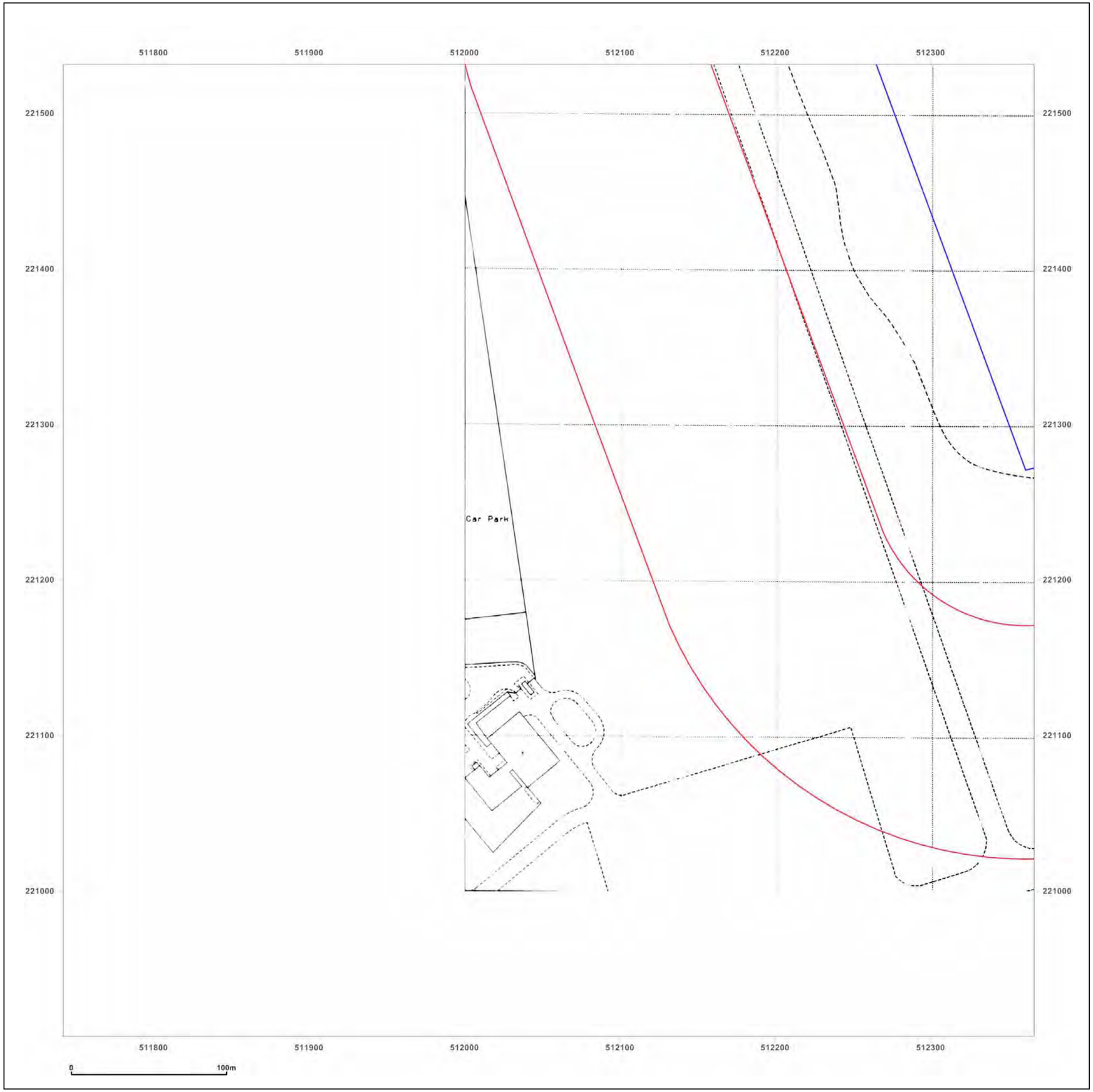

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_1
Grid Ref: 512054, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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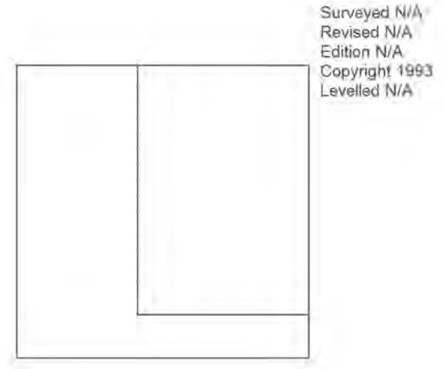

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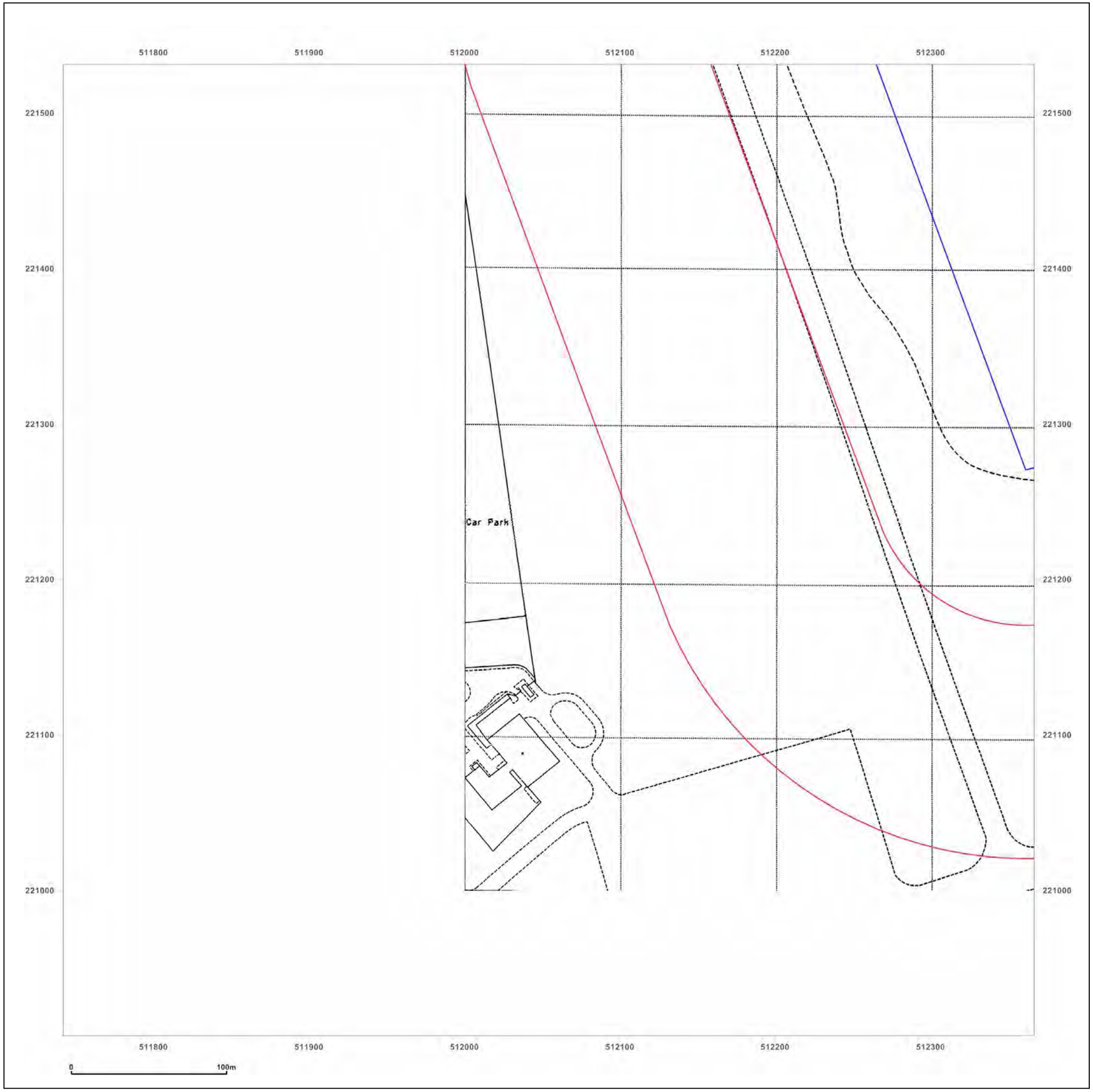

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_1
Grid Ref: 512054, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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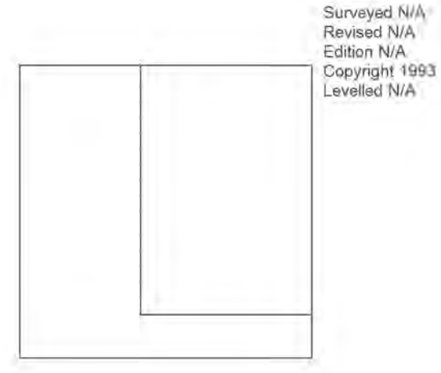

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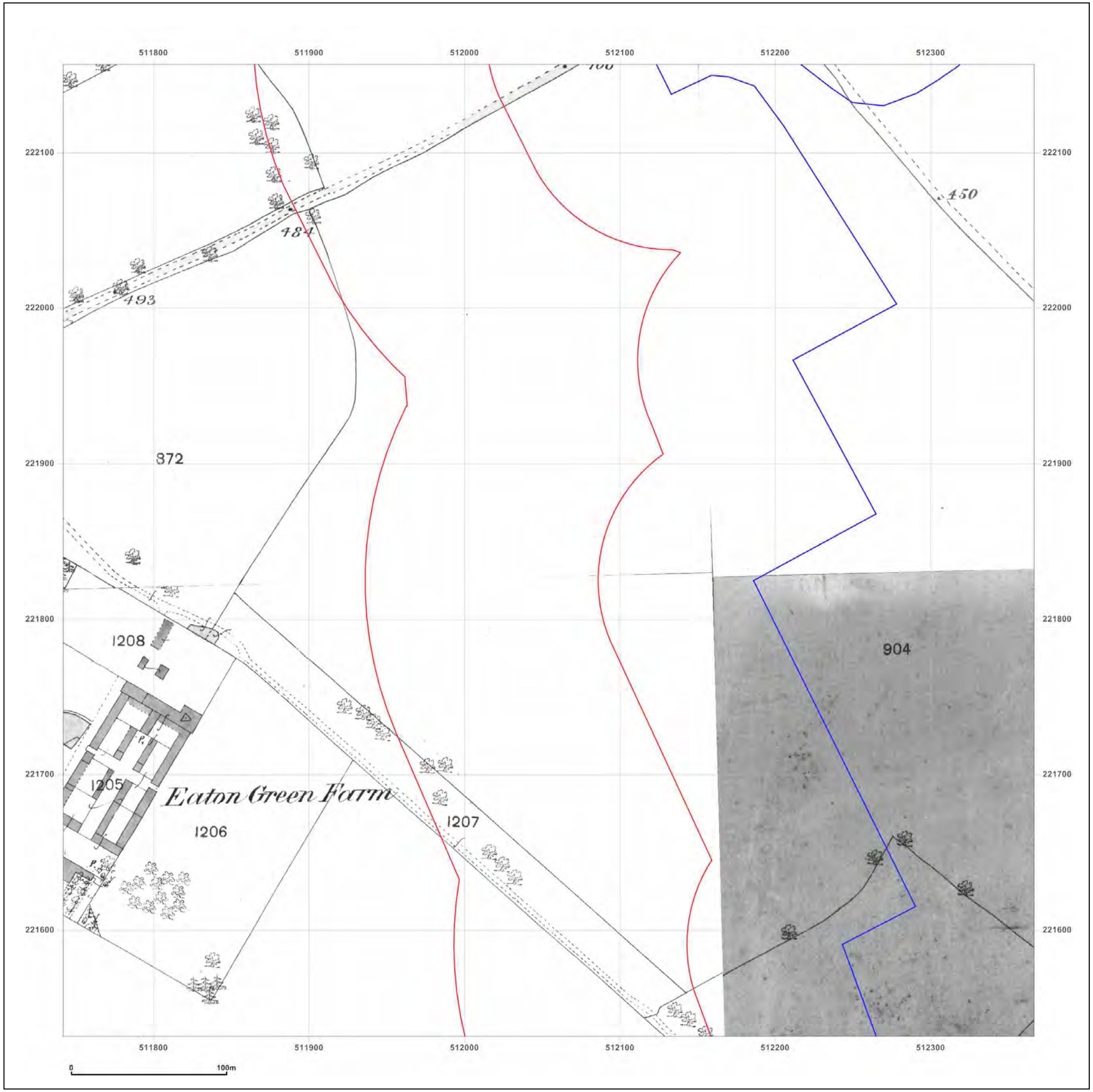

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_2
Grid Ref: 512054, 221844

Map Name: County Series
Map date: **1880-1881**
Scale: 1:2,500
Printed at: 1:2,500

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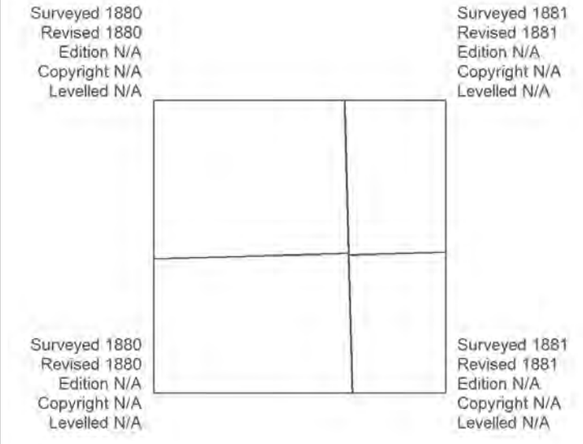

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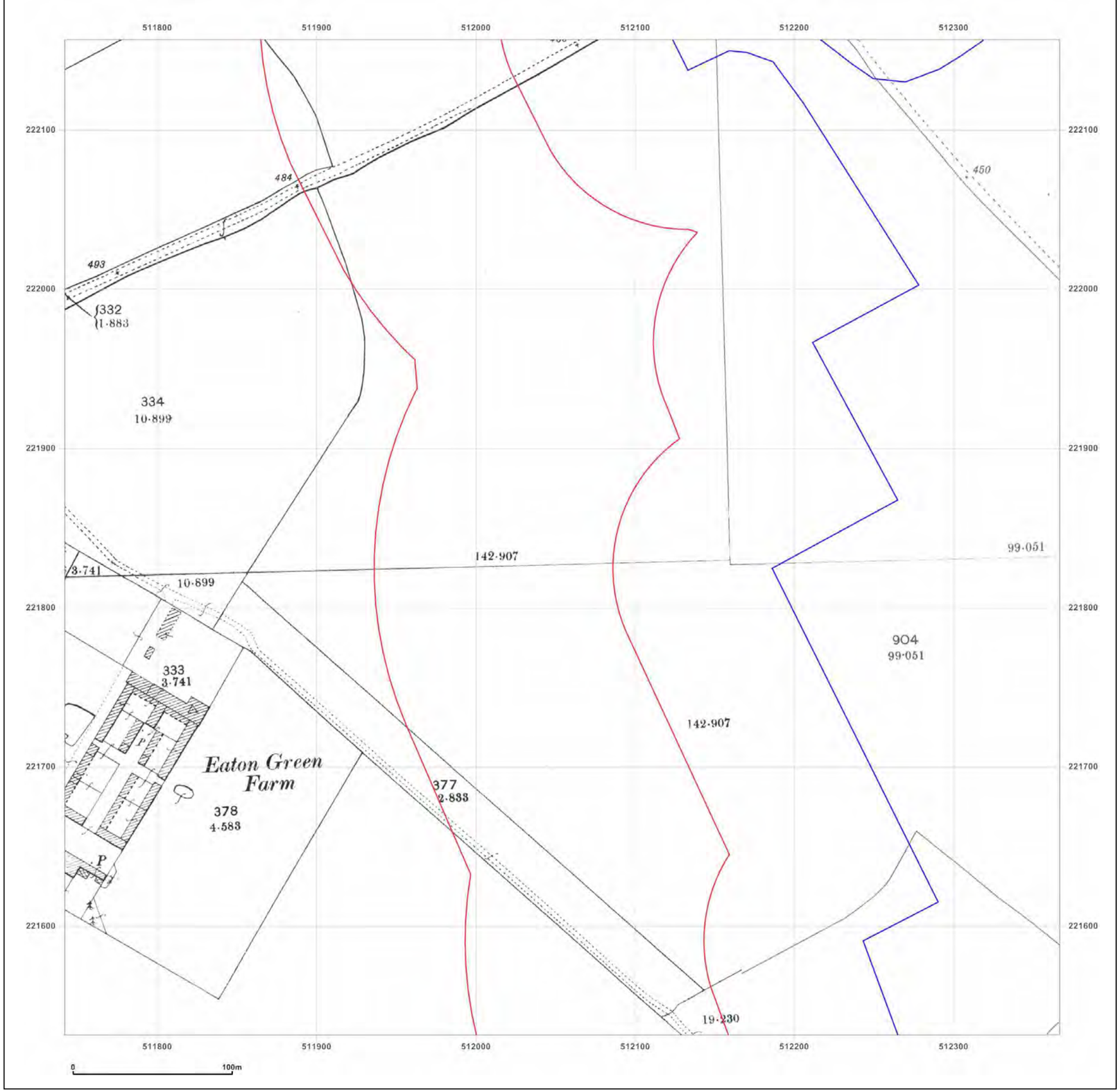

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_2
Grid Ref: 512054, 221844

Map Name: County Series

Map date: **1898-1901**

Scale: 1:2,500

Printed at: 1:2,500

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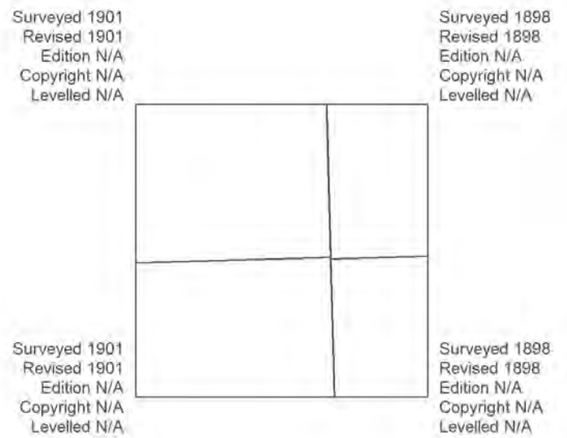

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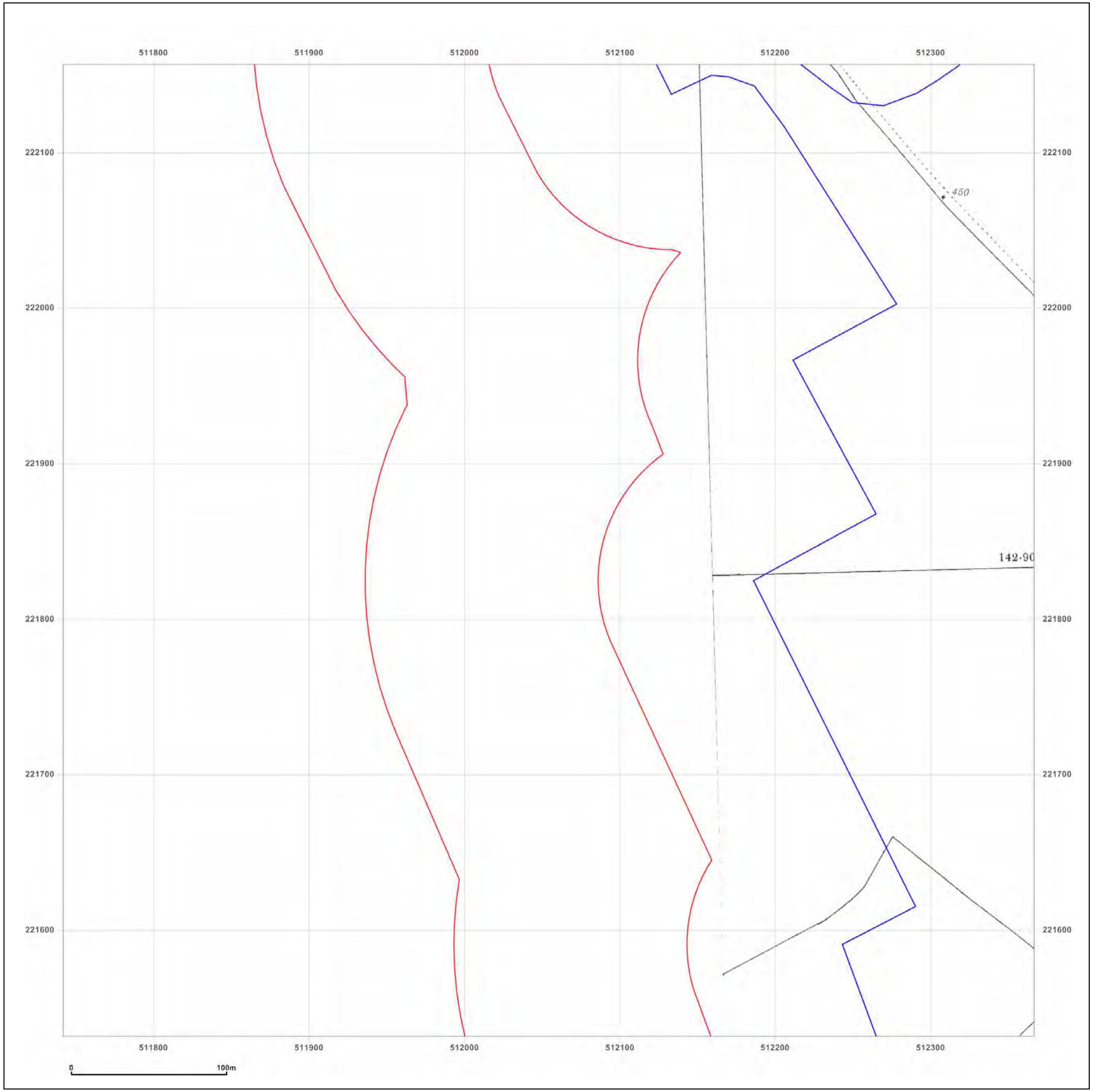

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_2
Grid Ref: 512054, 221844

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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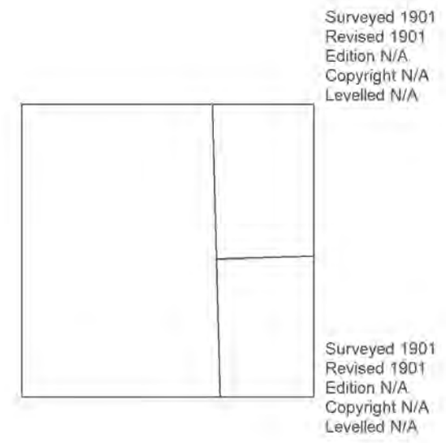

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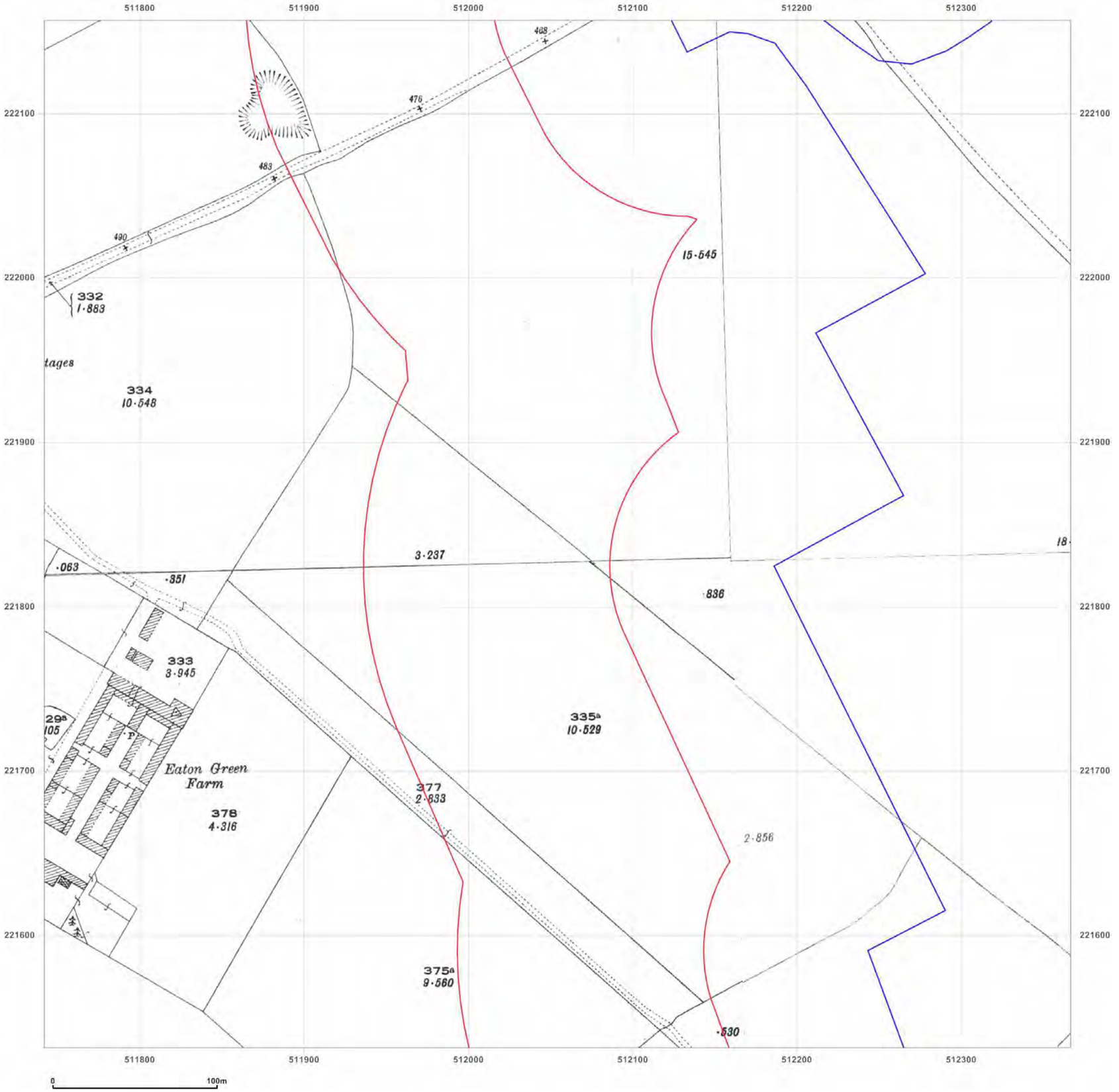

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_2
Grid Ref: 512054, 221844

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

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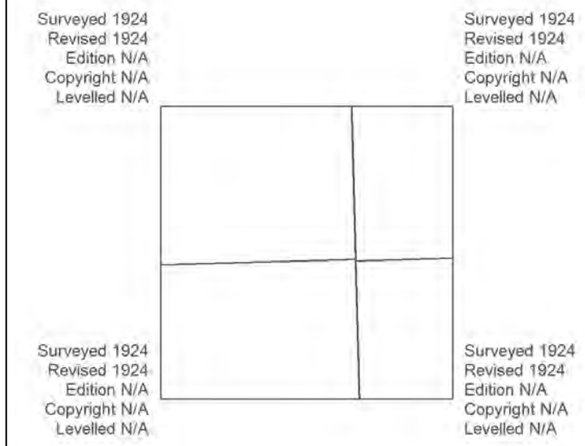

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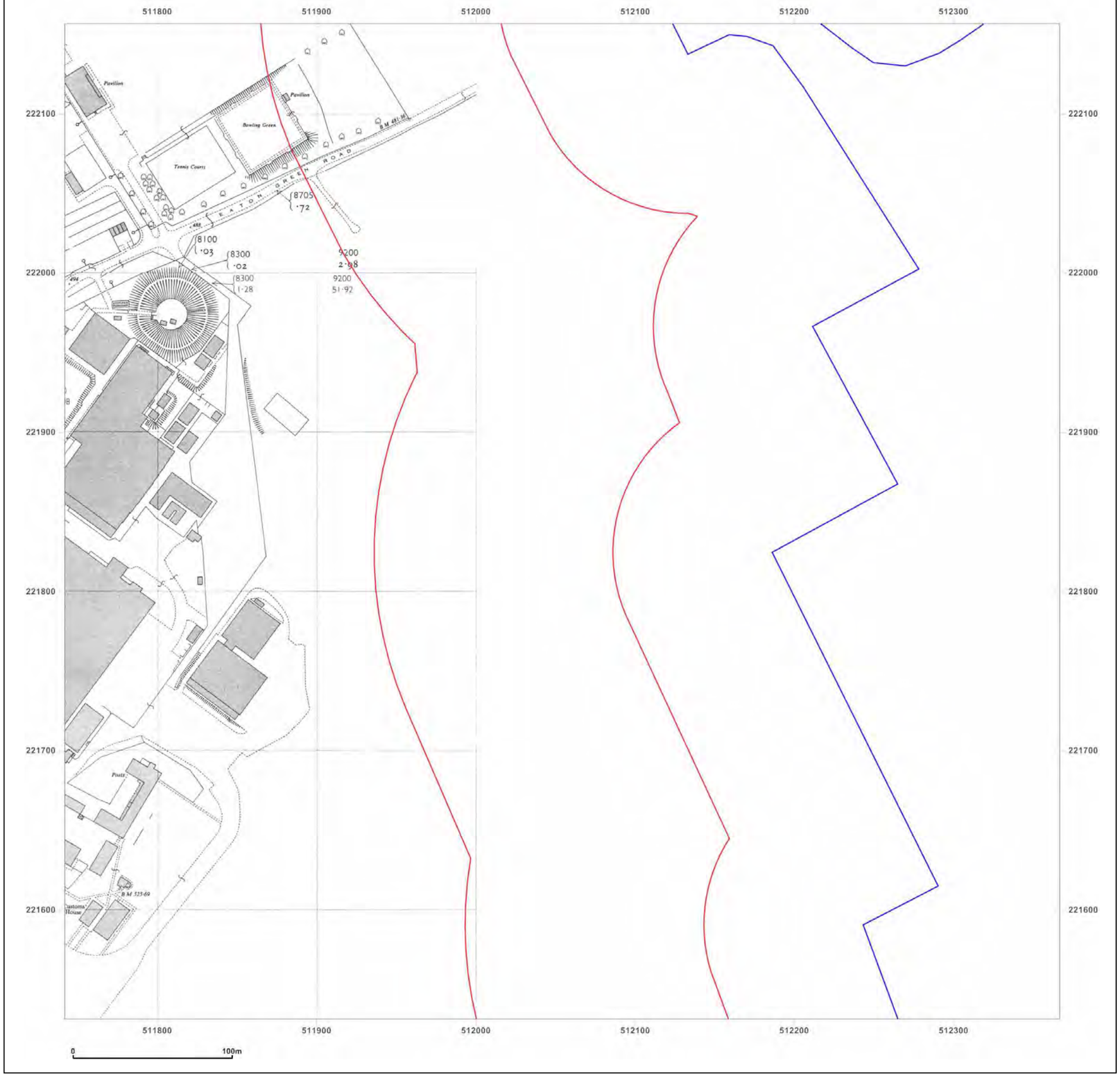

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_2
Grid Ref: 512054, 221844

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:2,500

Printed at: 1:2,500

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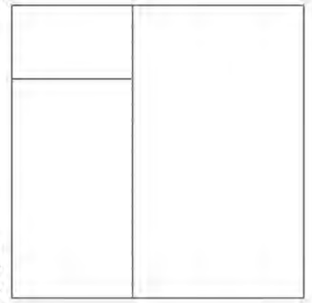
Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1958



Surveyed 1961
Revised 1962
Edition 1964
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Production date: 16 October 2018

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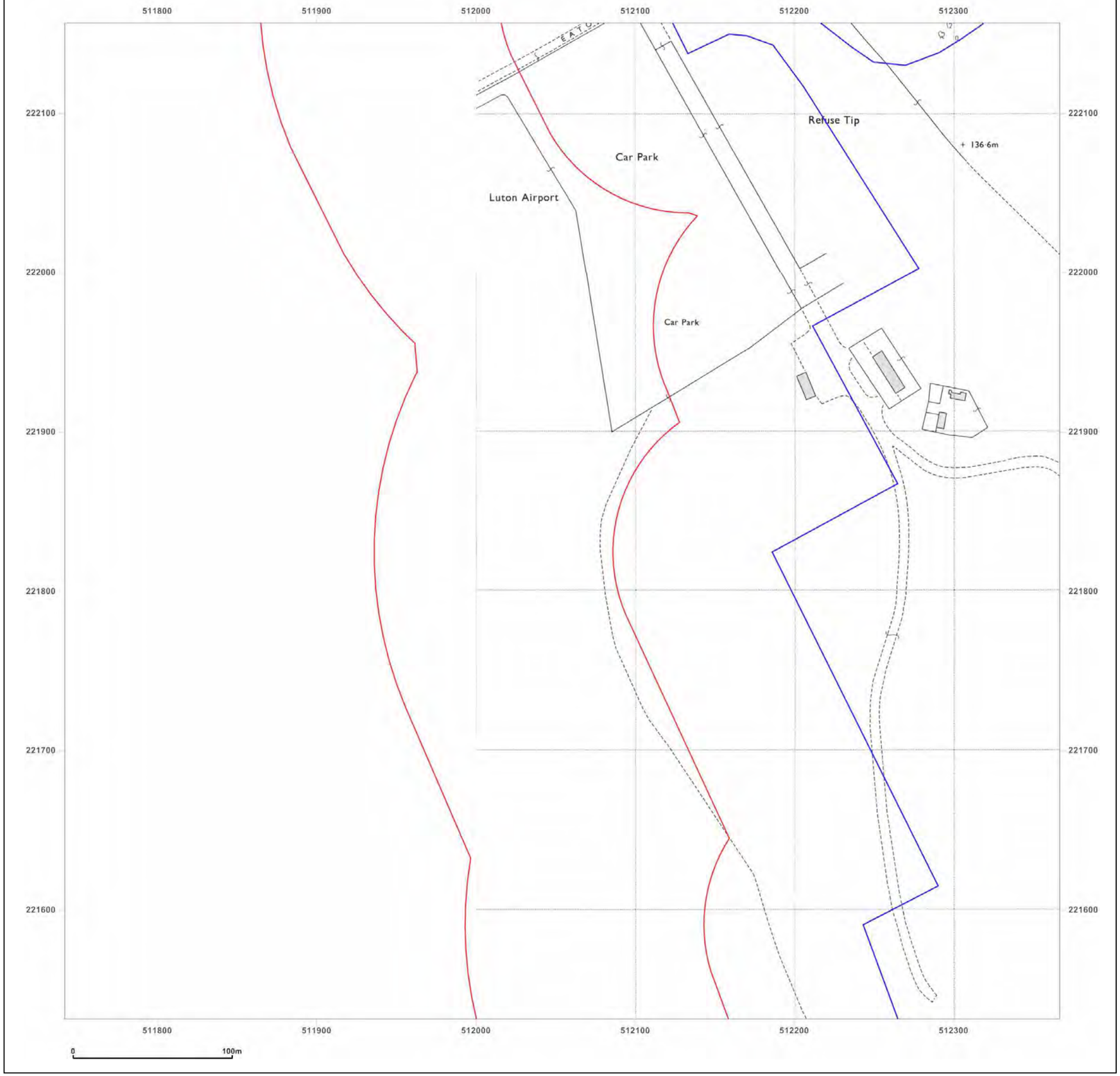

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_2
Grid Ref: 512054, 221844

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

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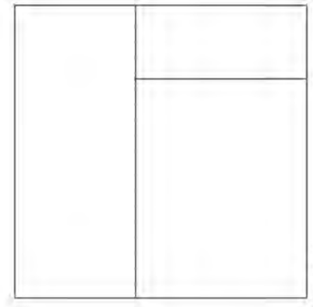

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Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
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Production date: 16 October 2018

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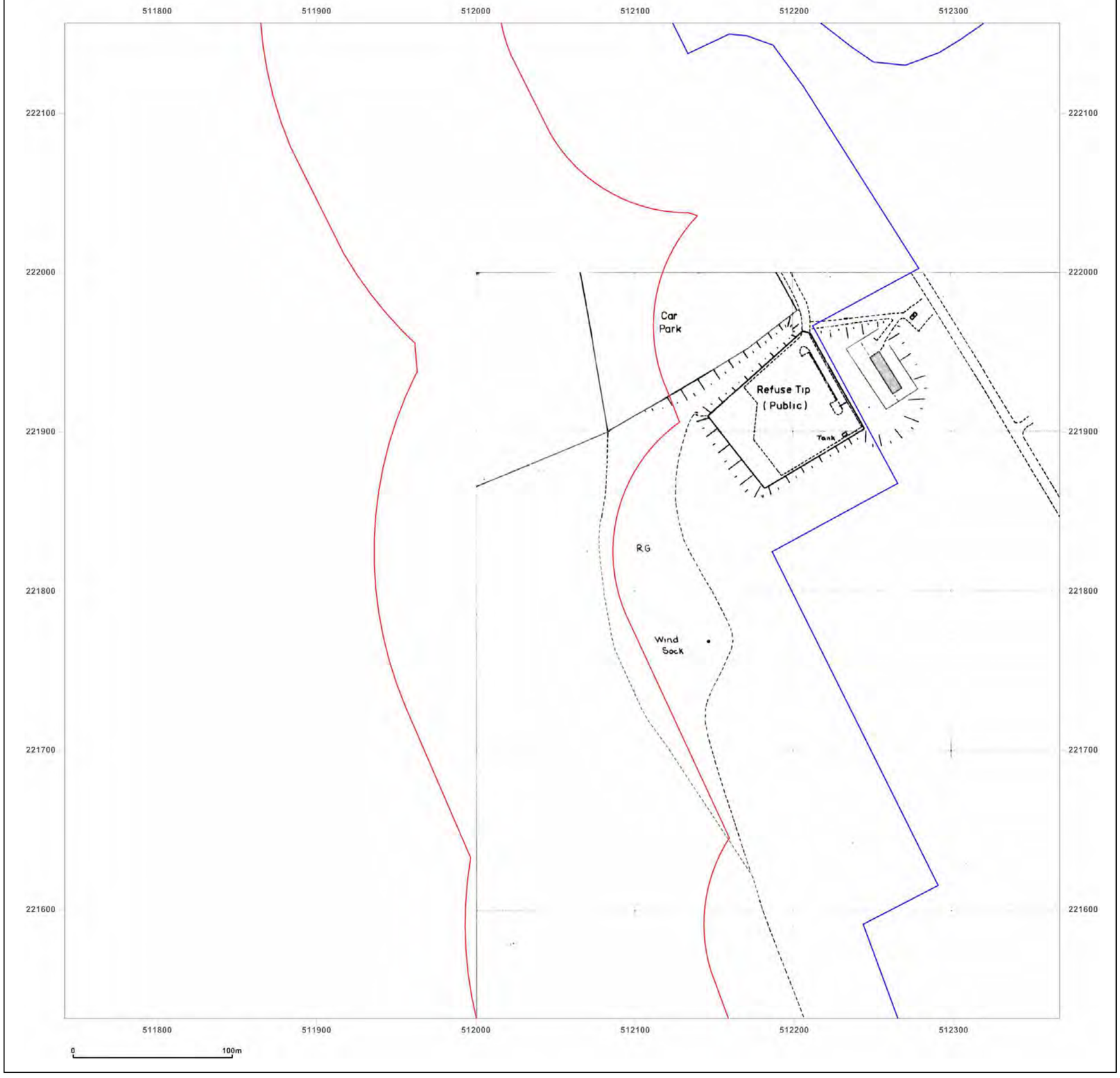

Groundsure INSIGHTS

Site Details:

513326.29595395754, 221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_2
Grid Ref: 512054, 221844

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

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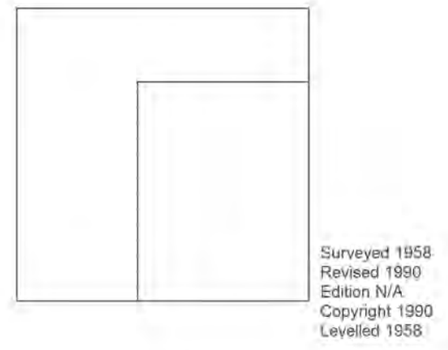

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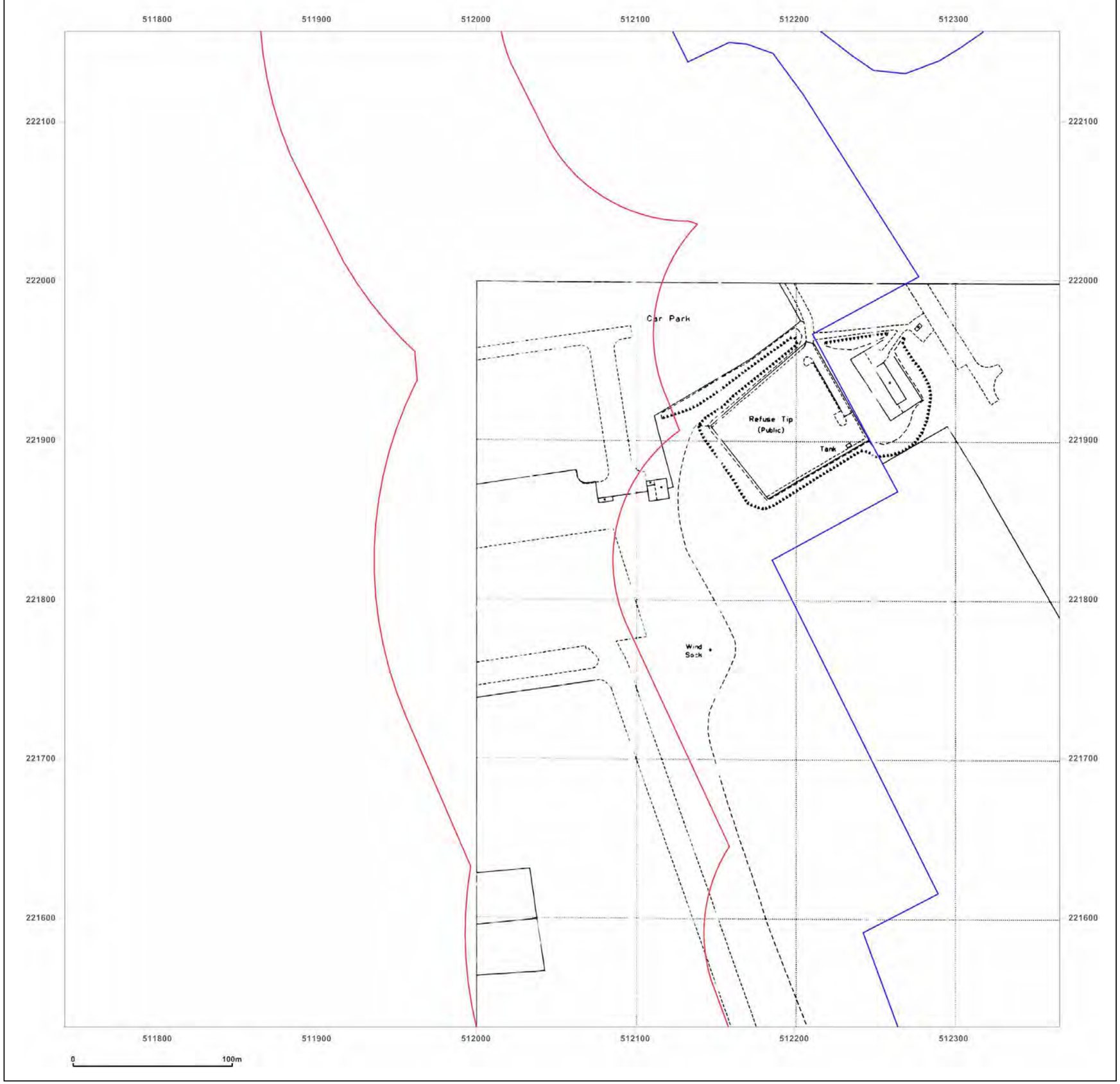

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_2
Grid Ref: 512054, 221844

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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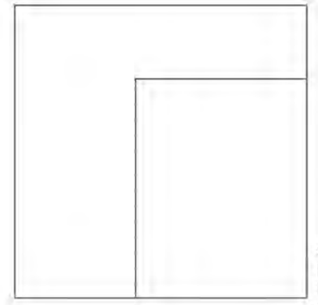

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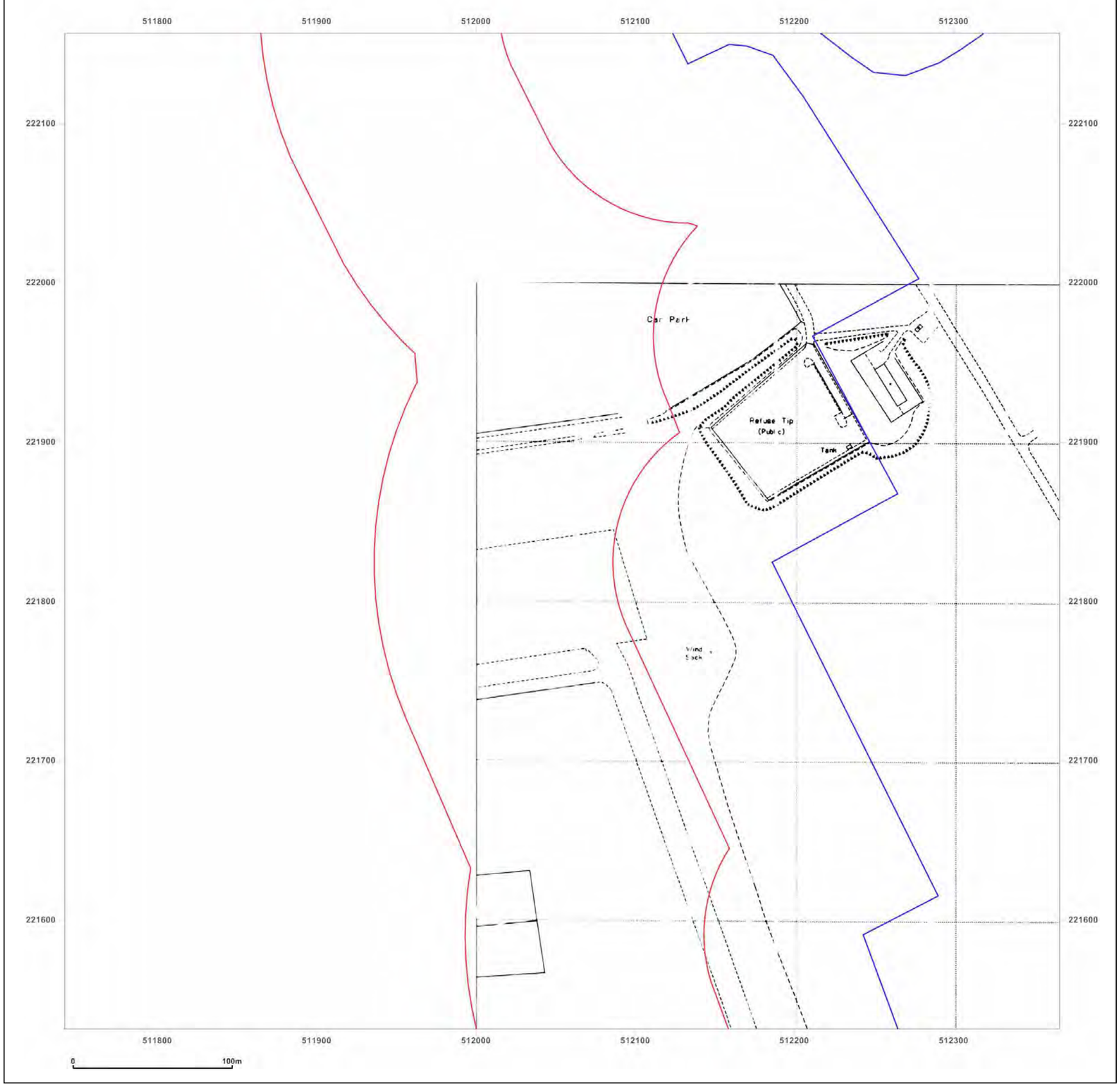

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_2
Grid Ref: 512054, 221844

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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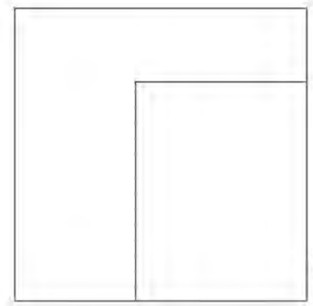

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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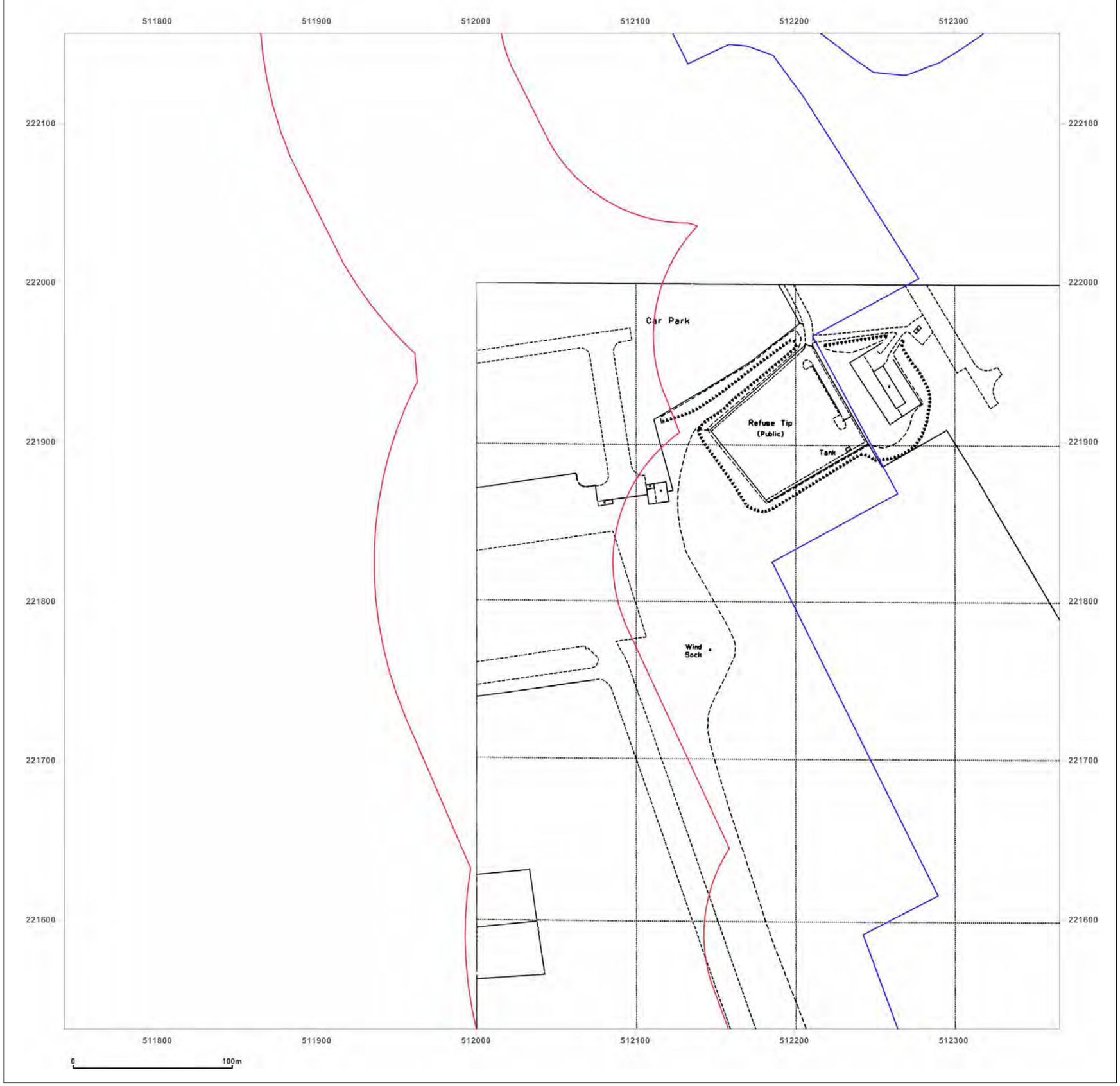

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_2
Grid Ref: 512054, 221844

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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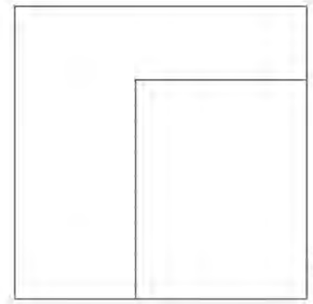

Surveyed N/A
Revised N/A
Edition N/A
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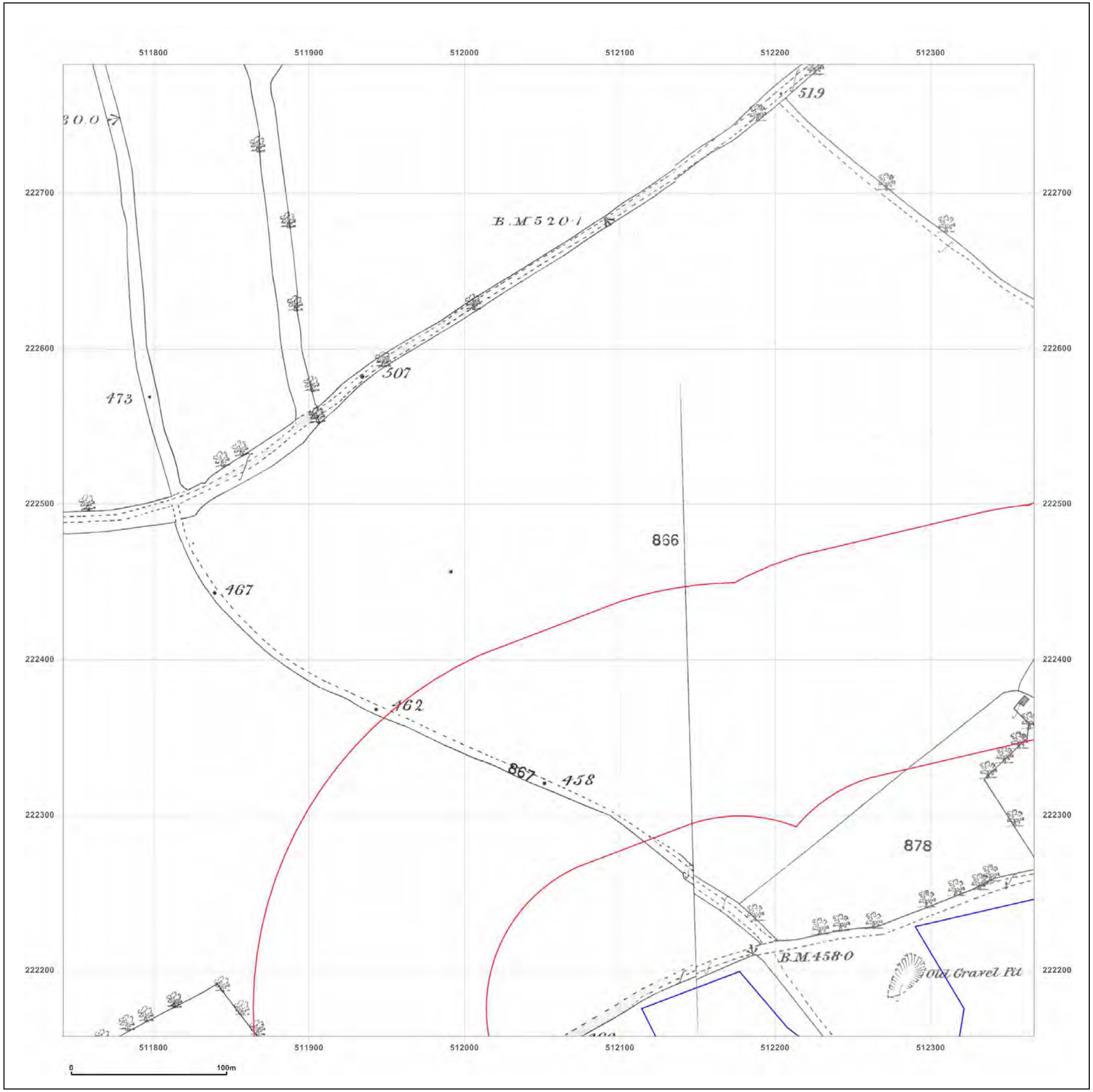

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_3
Grid Ref: 512054, 222470

Map Name: County Series

Map date: **1880-1881**

Scale: 1:2,500

Printed at: 1:2,500

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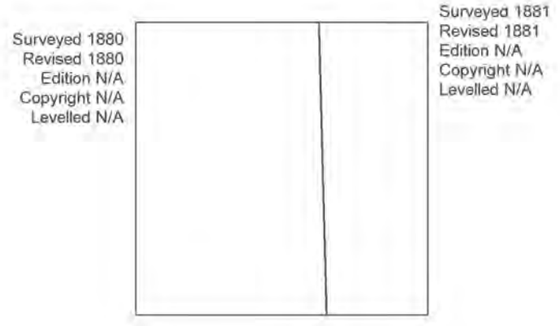

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Production date: 16 October 2018

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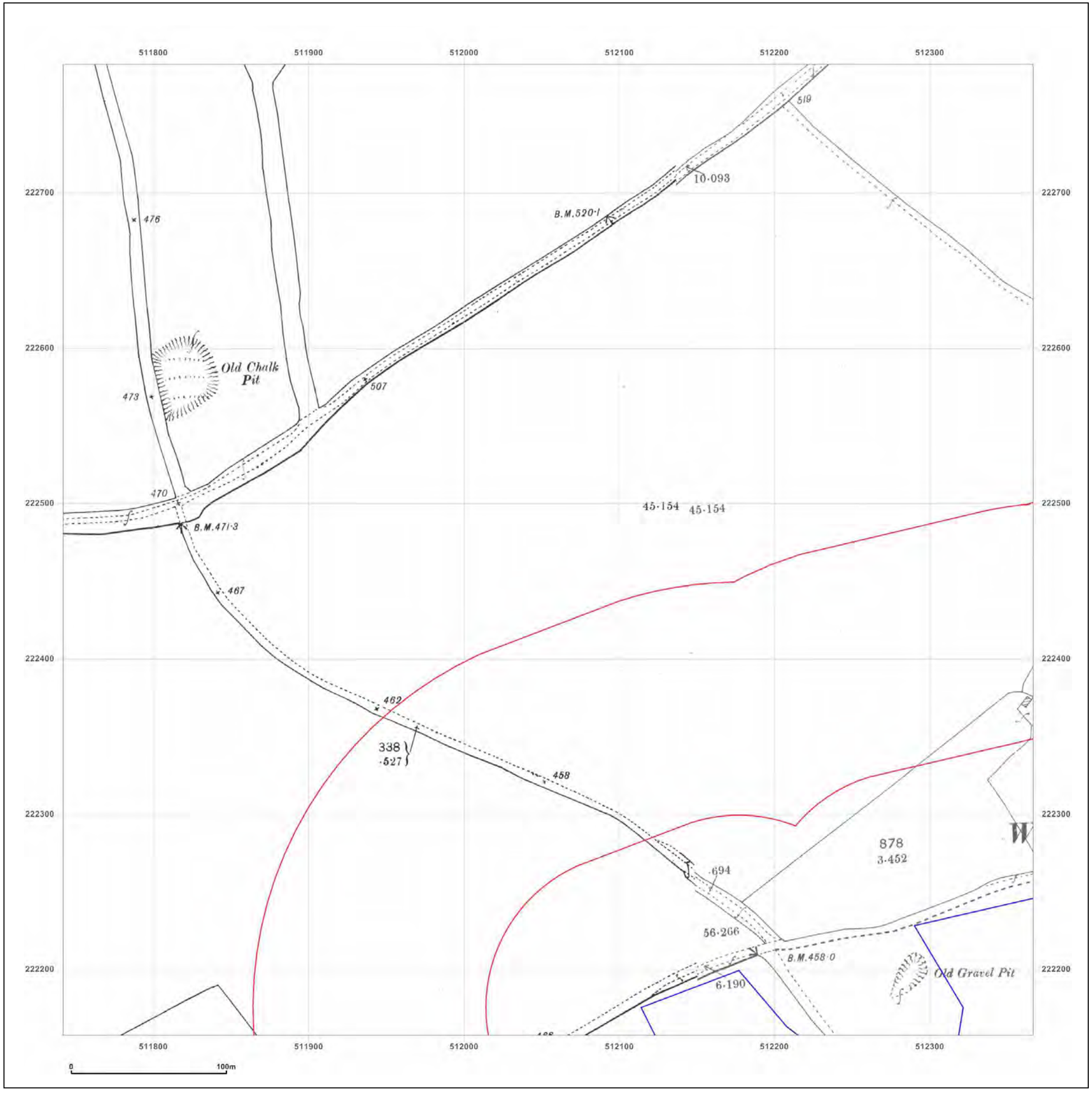

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_3
Grid Ref: 512054, 222470

Map Name: County Series

Map date: **1898-1901**

Scale: 1:2,500

Printed at: 1:2,500

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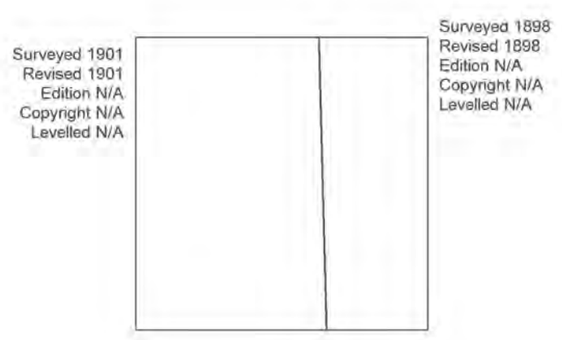

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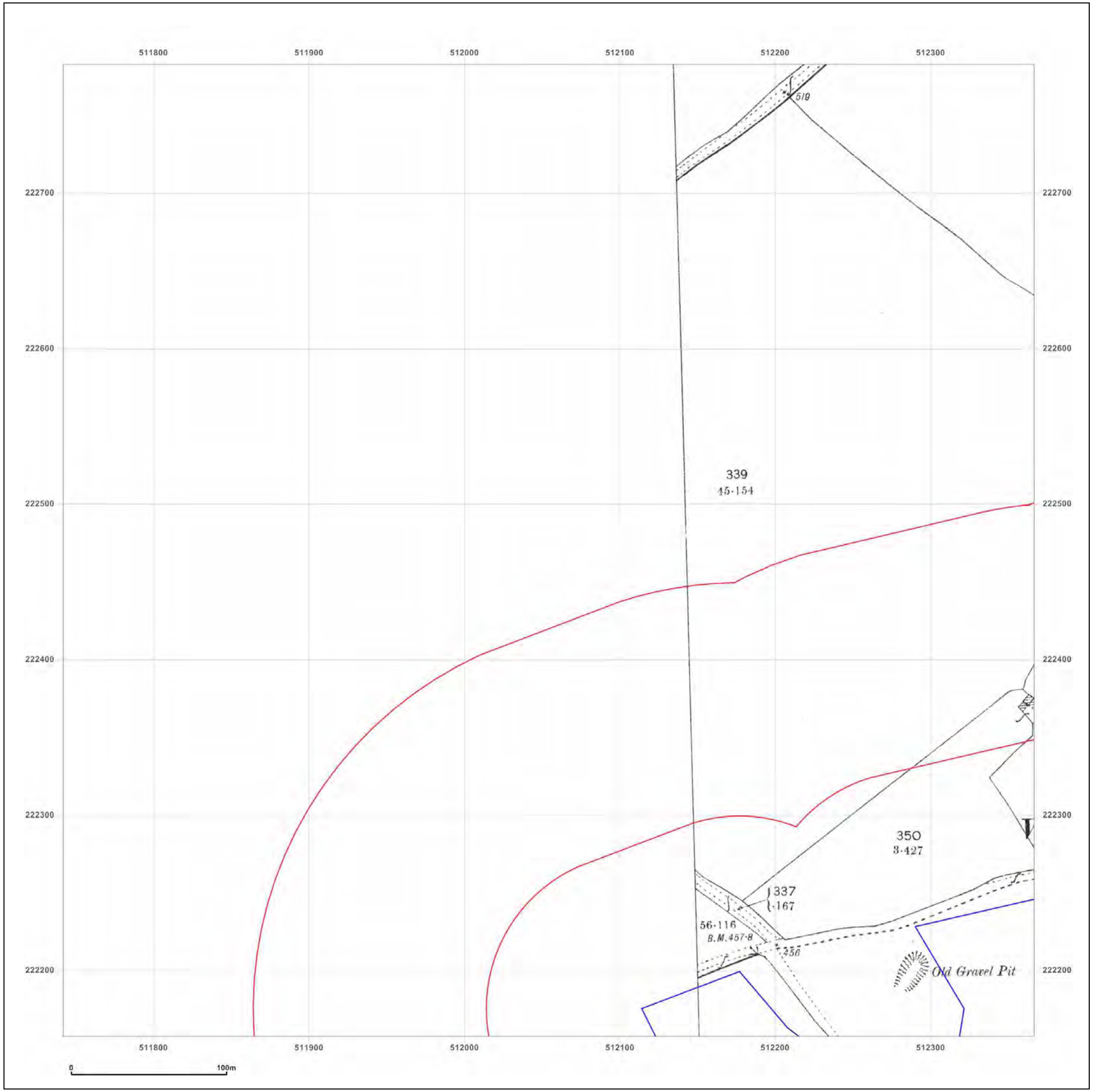

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_3
Grid Ref: 512054, 222470

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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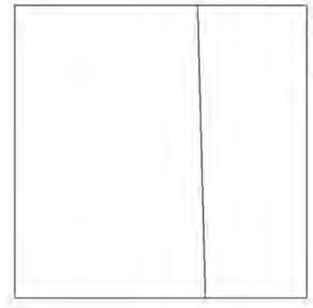

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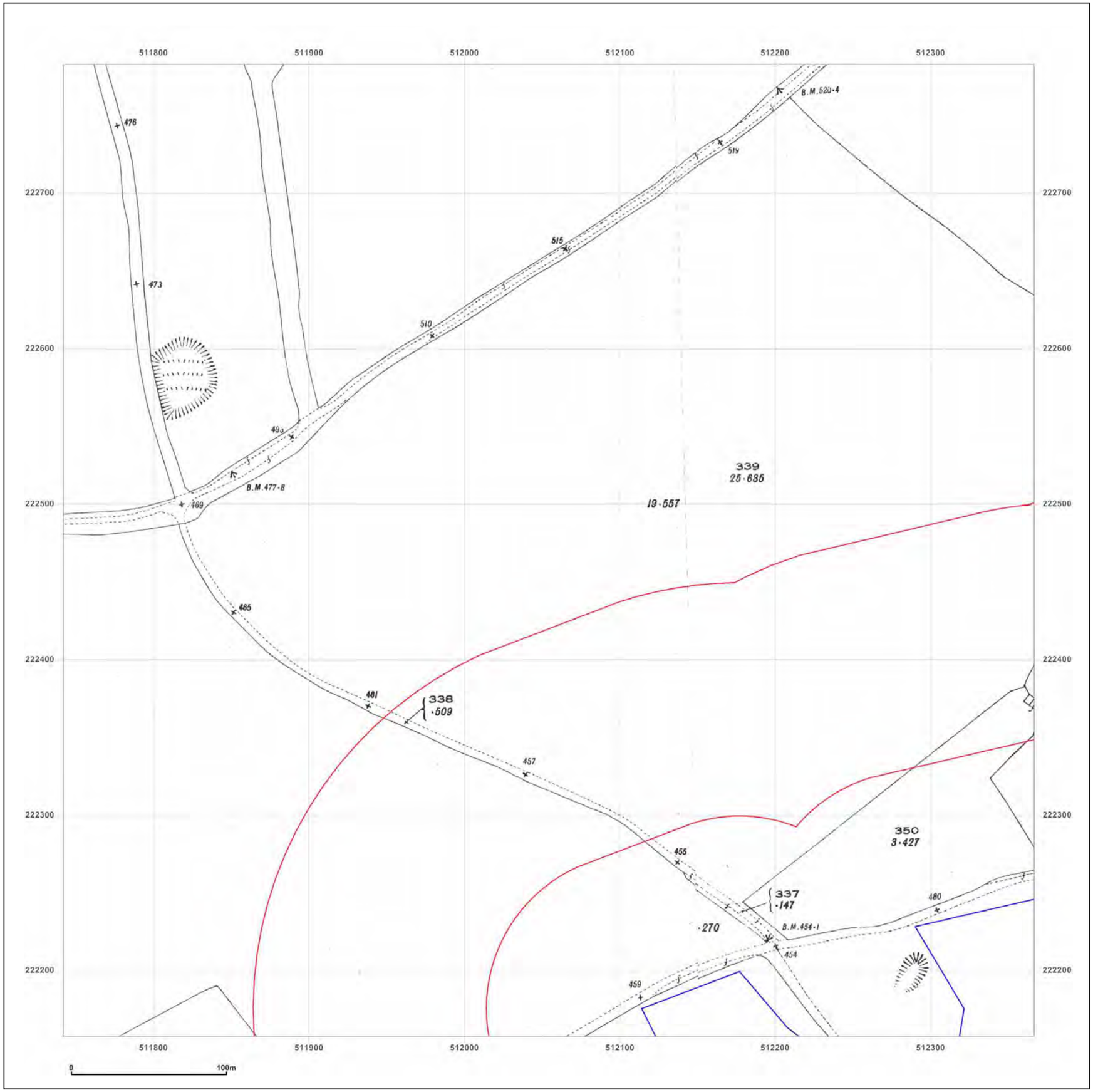

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_3
Grid Ref: 512054, 222470

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
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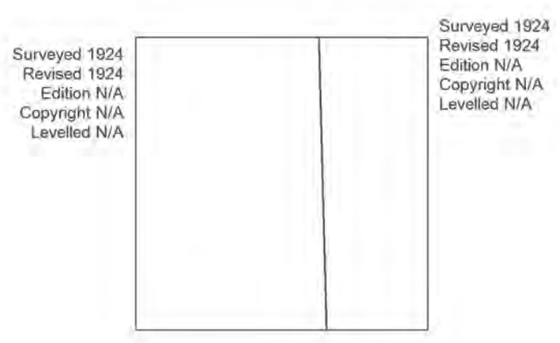

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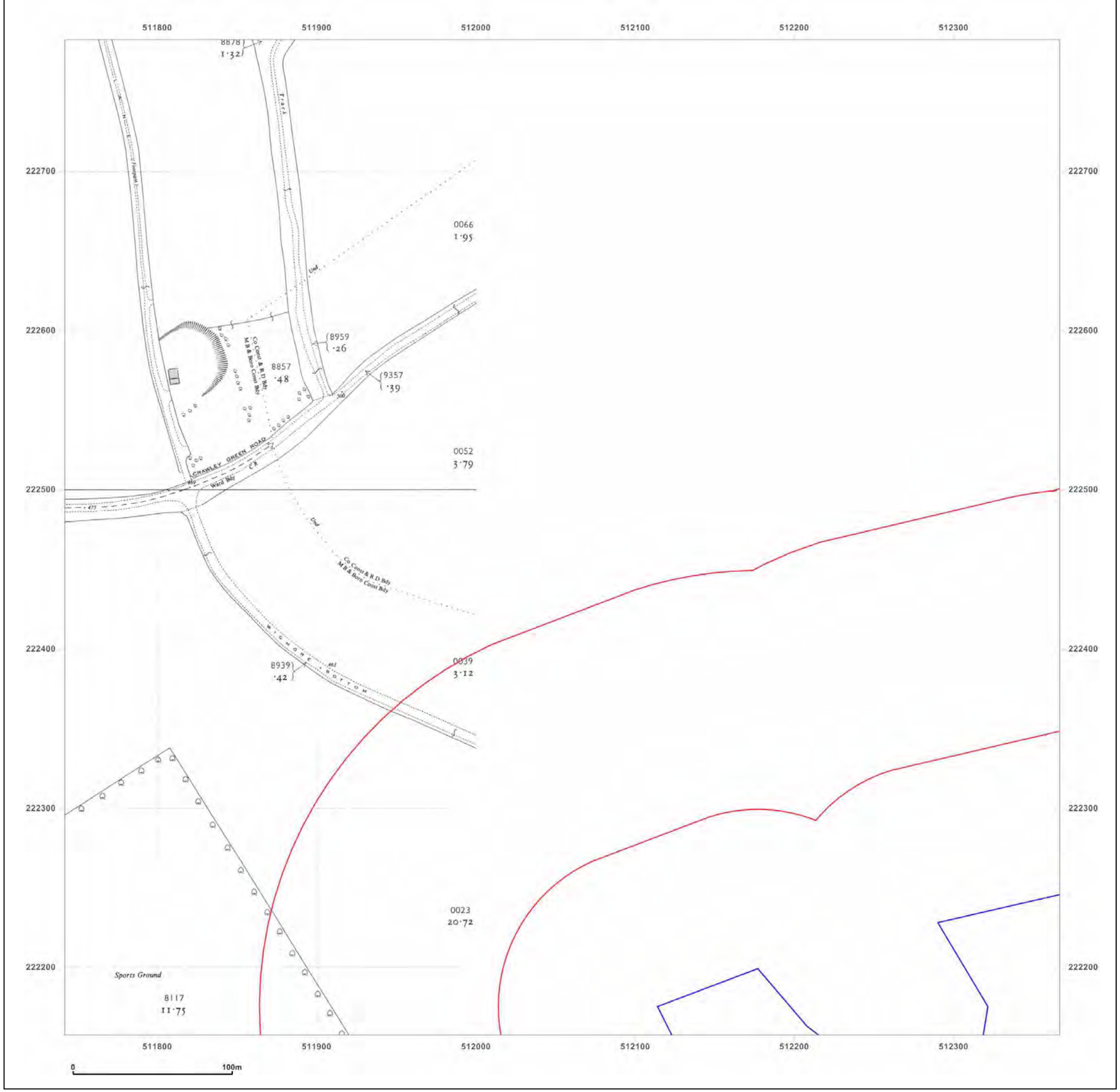


Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_3
Grid Ref: 512054, 222470

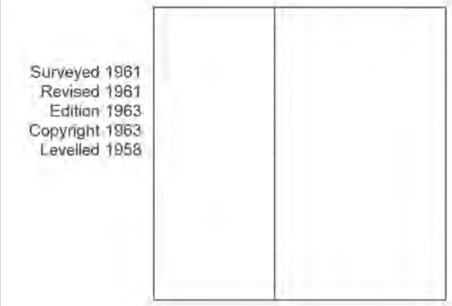
Map Name: National Grid

Map date: **1961**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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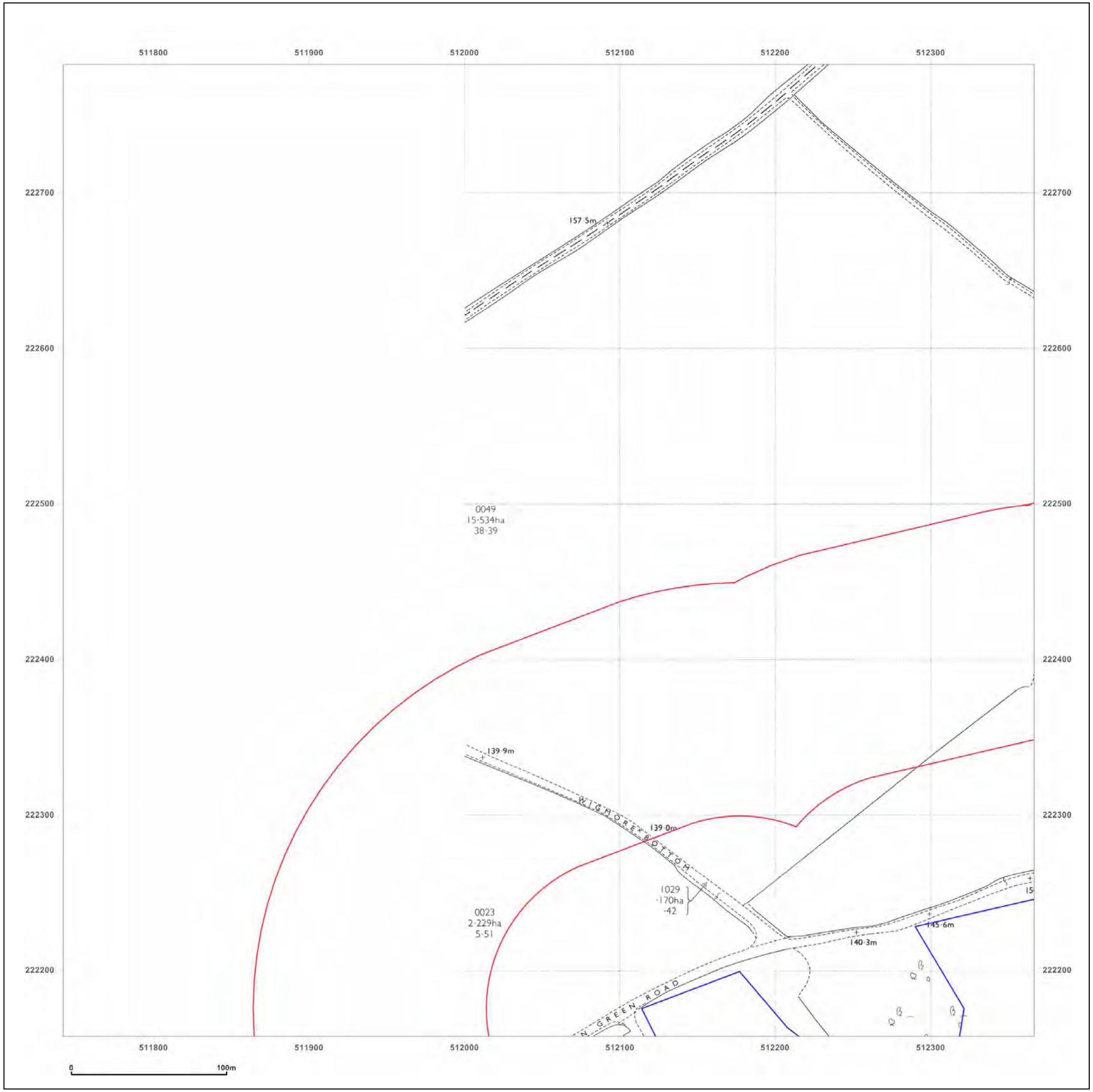

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_1_3
Grid Ref: 512054, 222470

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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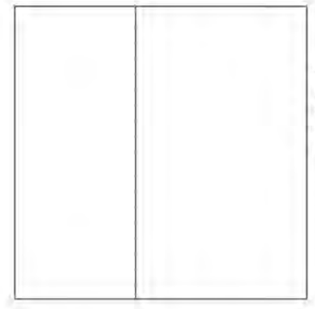

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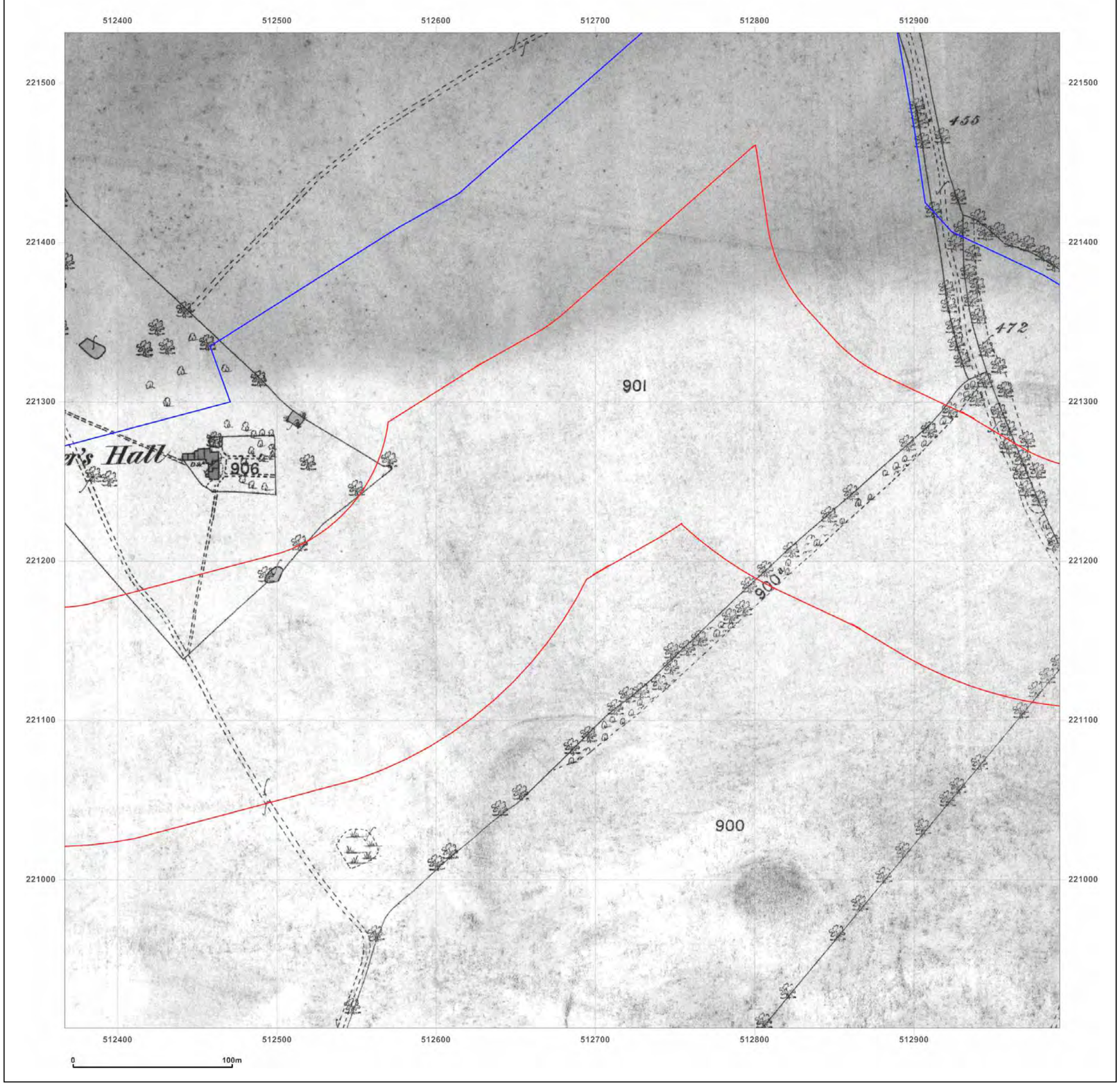

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_1
Grid Ref: 512679, 221219

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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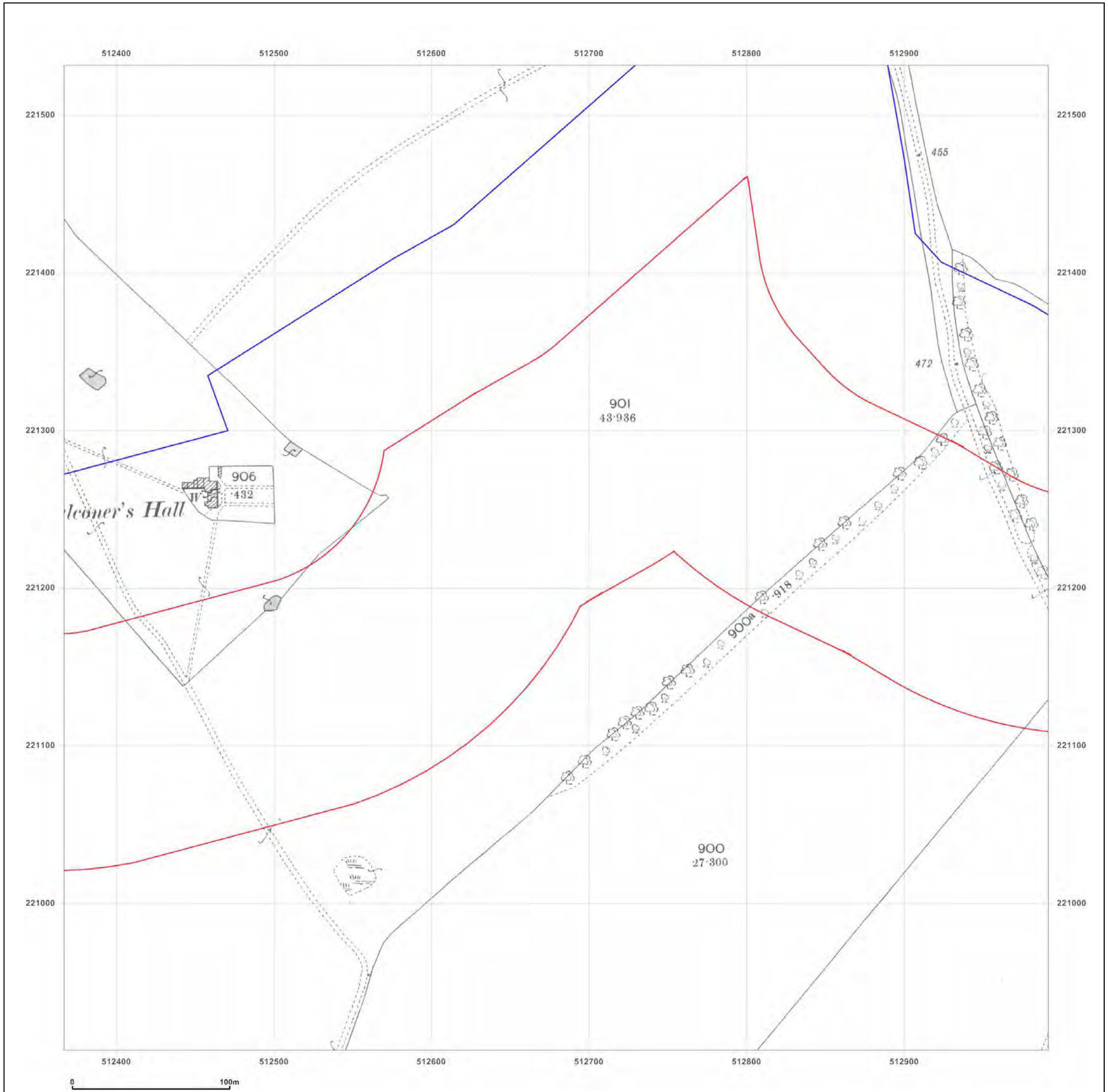

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_1
Grid Ref: 512679, 221219

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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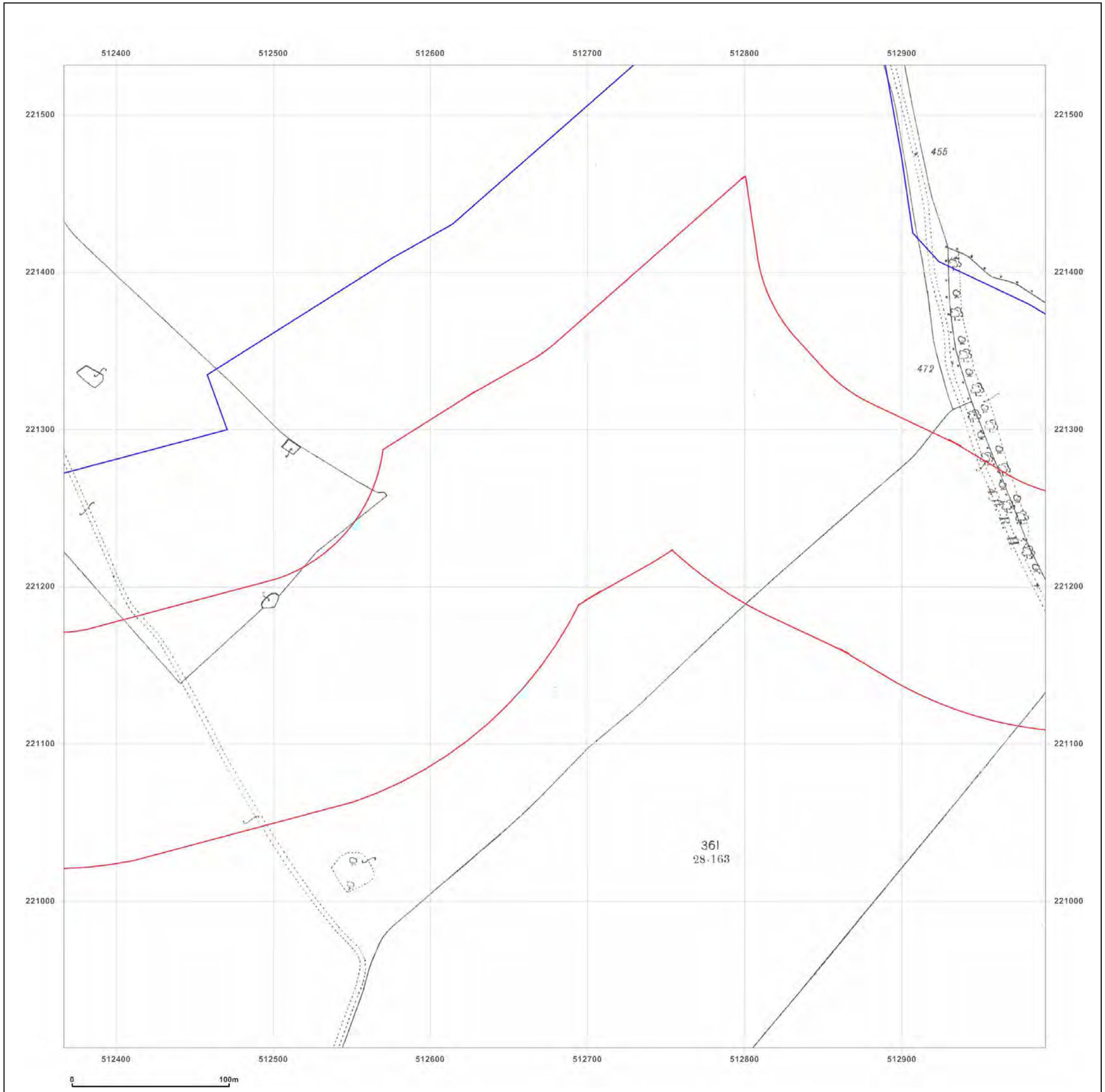

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_1
Grid Ref: 512679, 221219

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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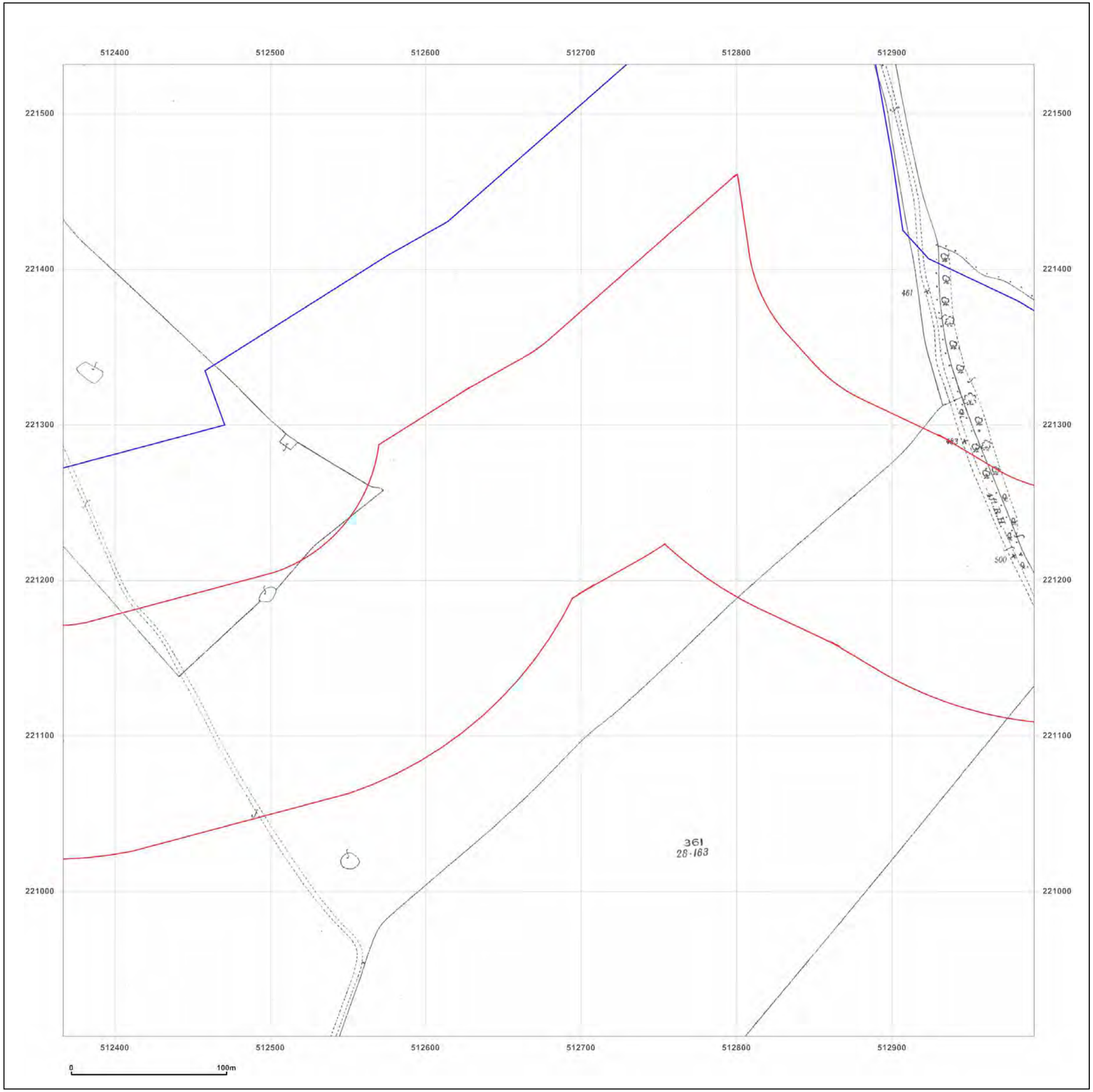

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_1
Grid Ref: 512679, 221219

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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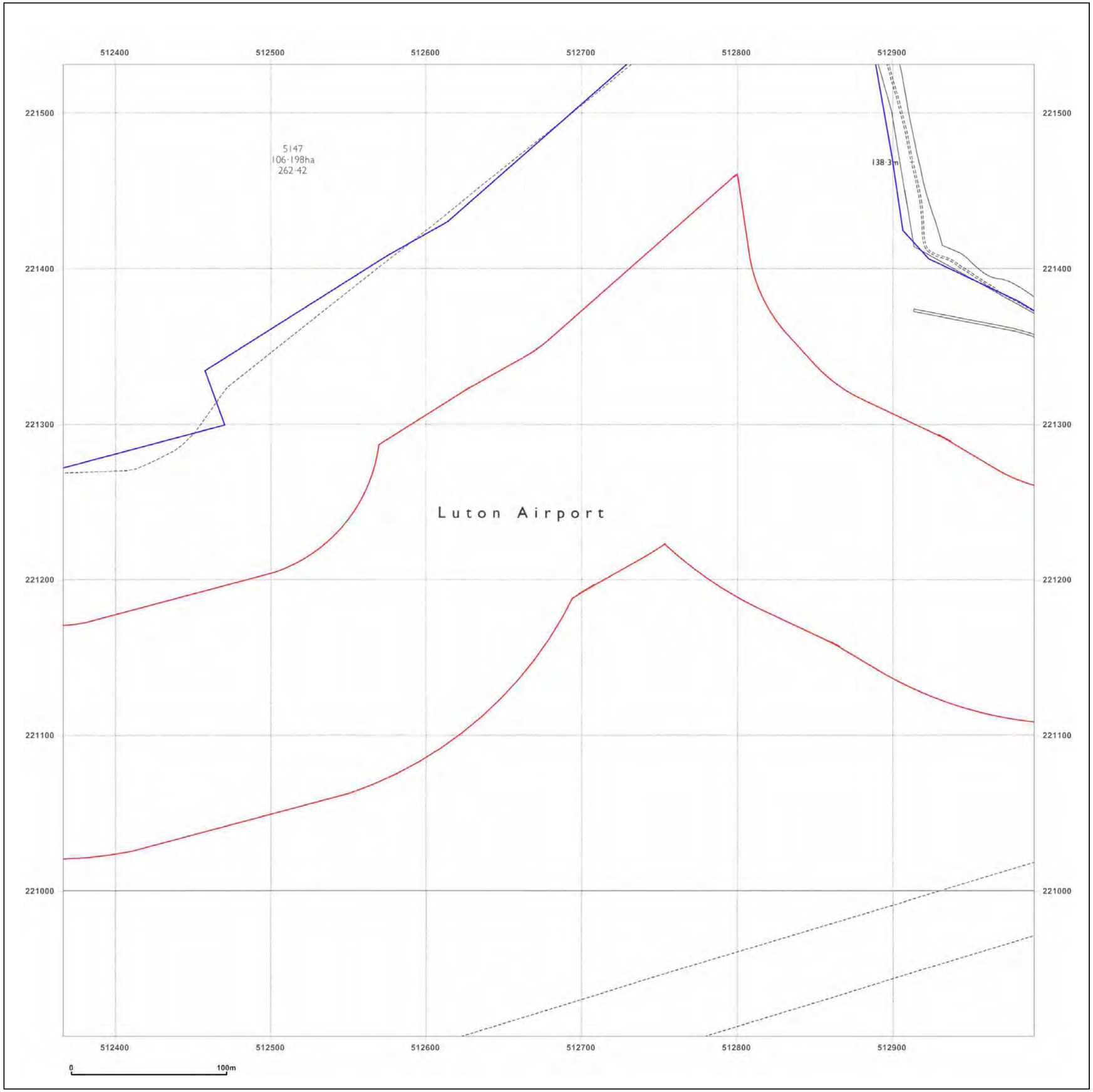

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_1
Grid Ref: 512679, 221219

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
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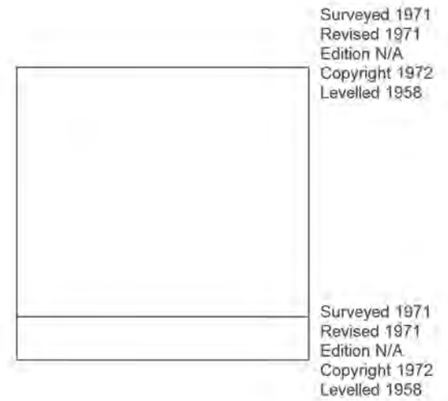

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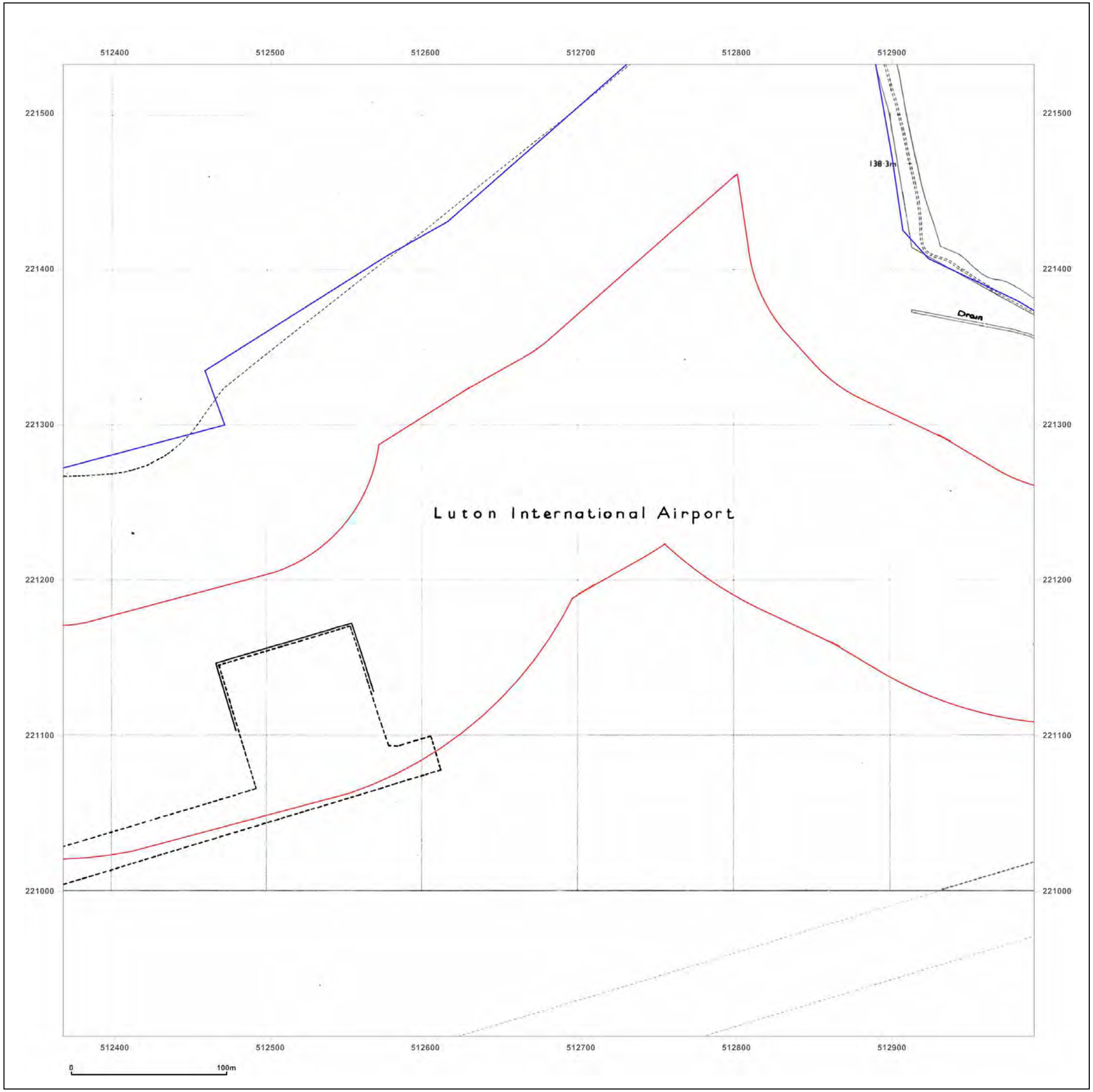

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_1
Grid Ref: 512679, 221219

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

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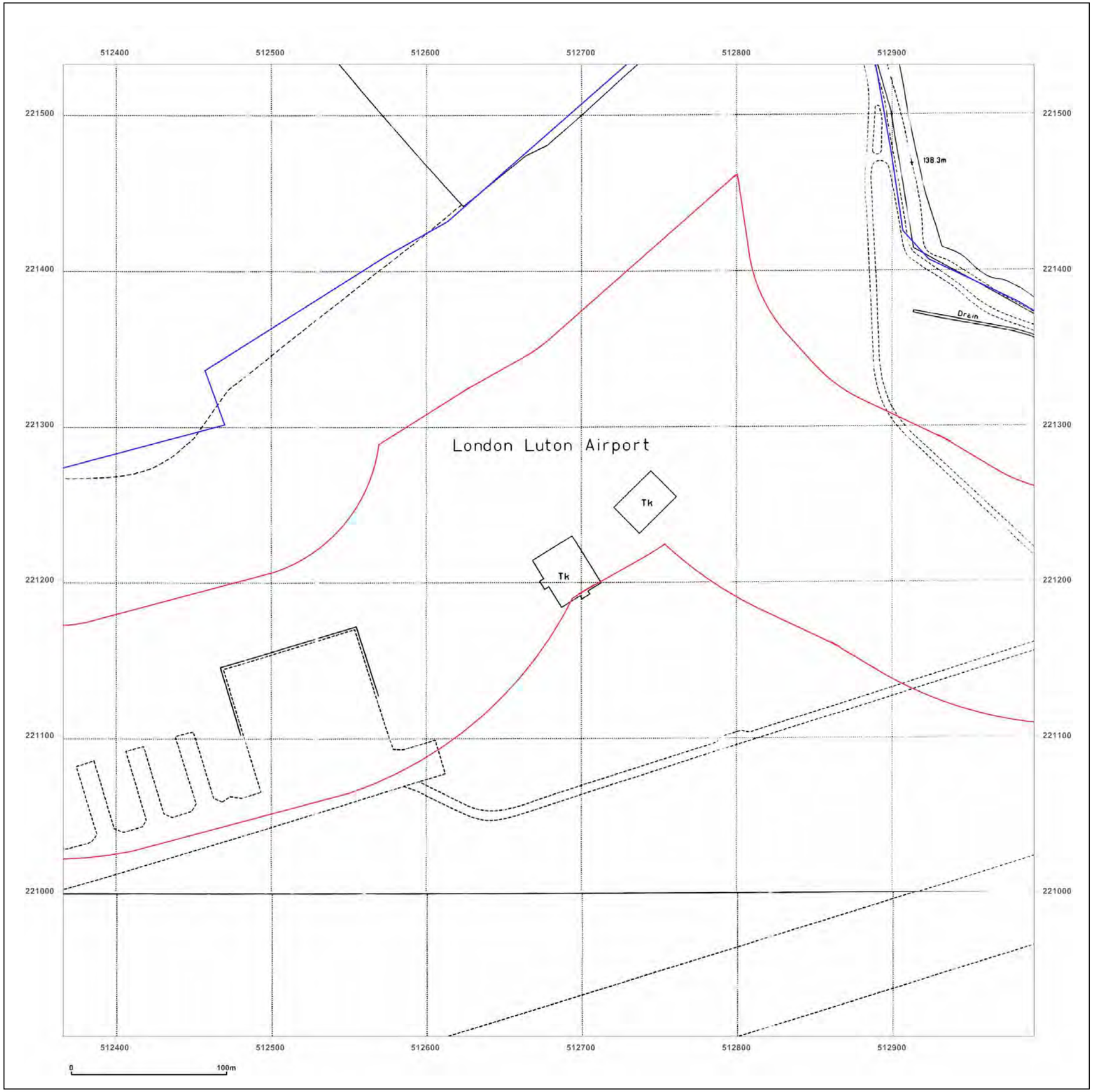

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_1
Grid Ref: 512679, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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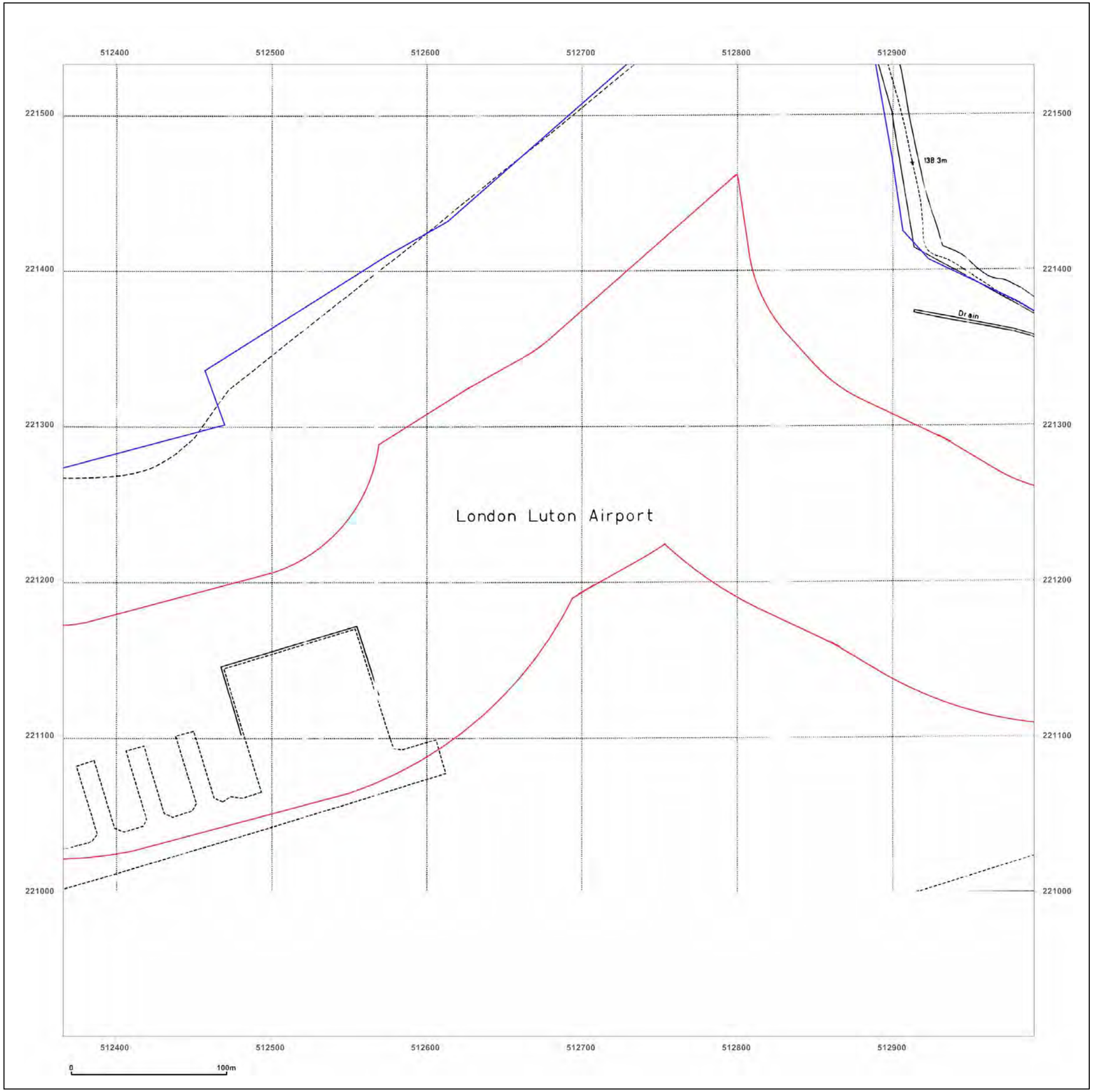

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_1
Grid Ref: 512679, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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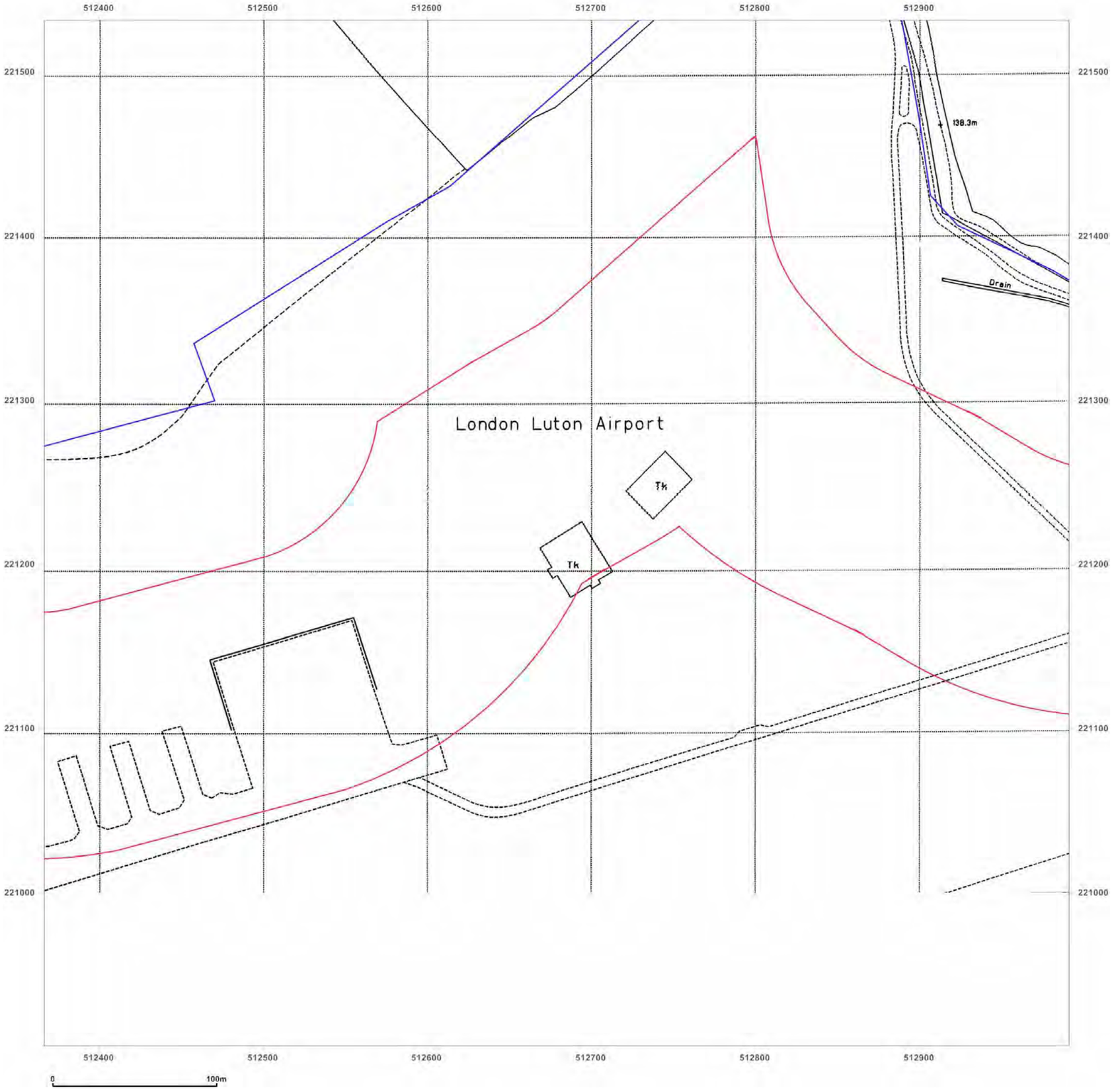

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_1
Grid Ref: 512679, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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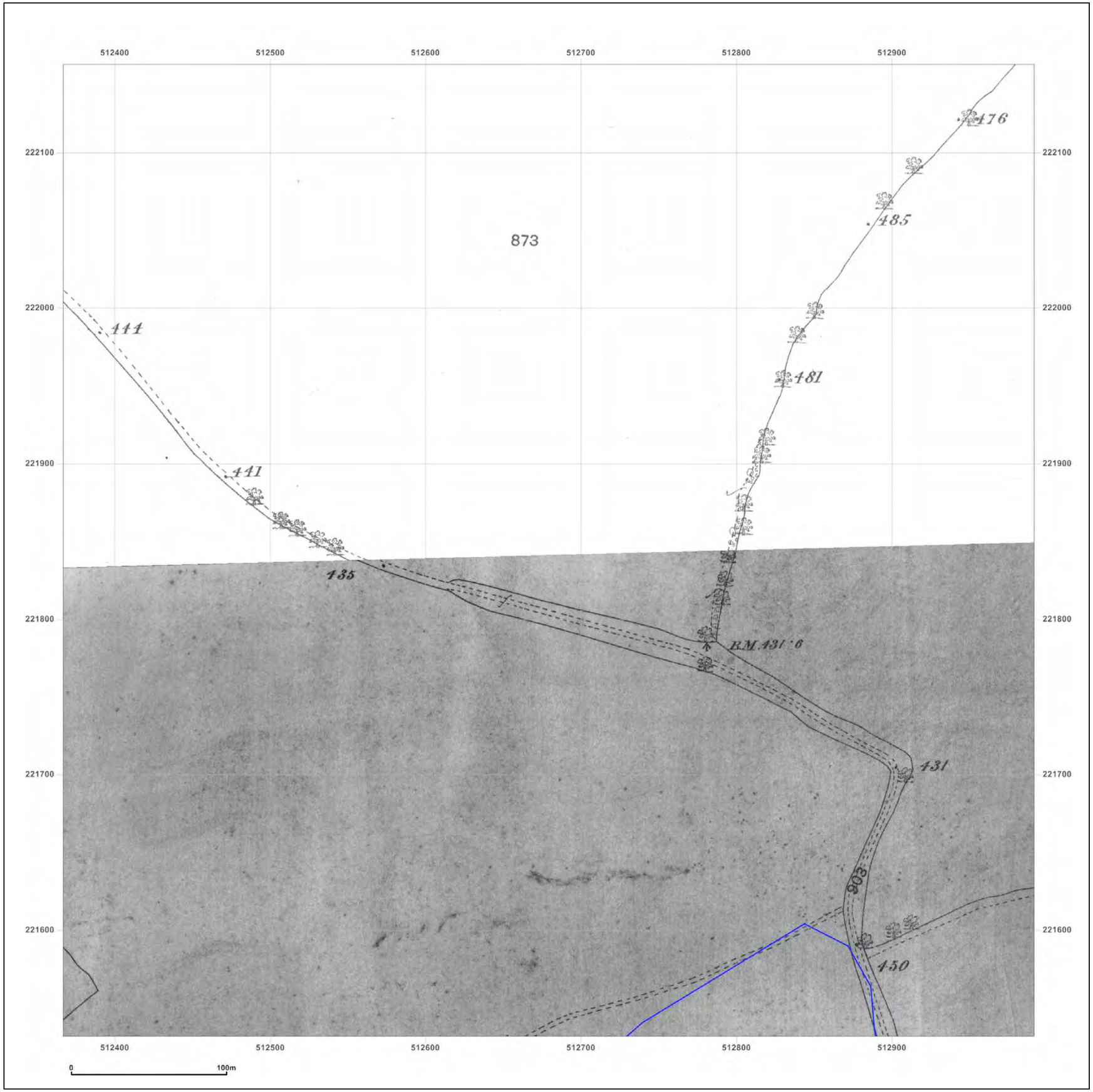

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_2
Grid Ref: 512679, 221844

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
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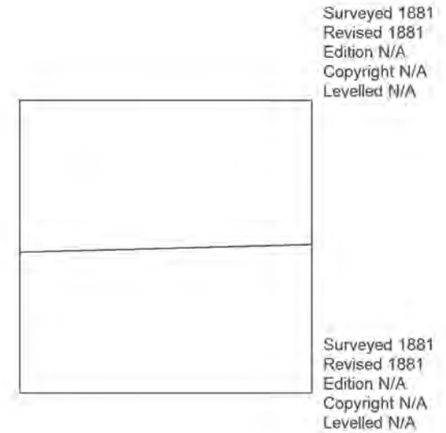

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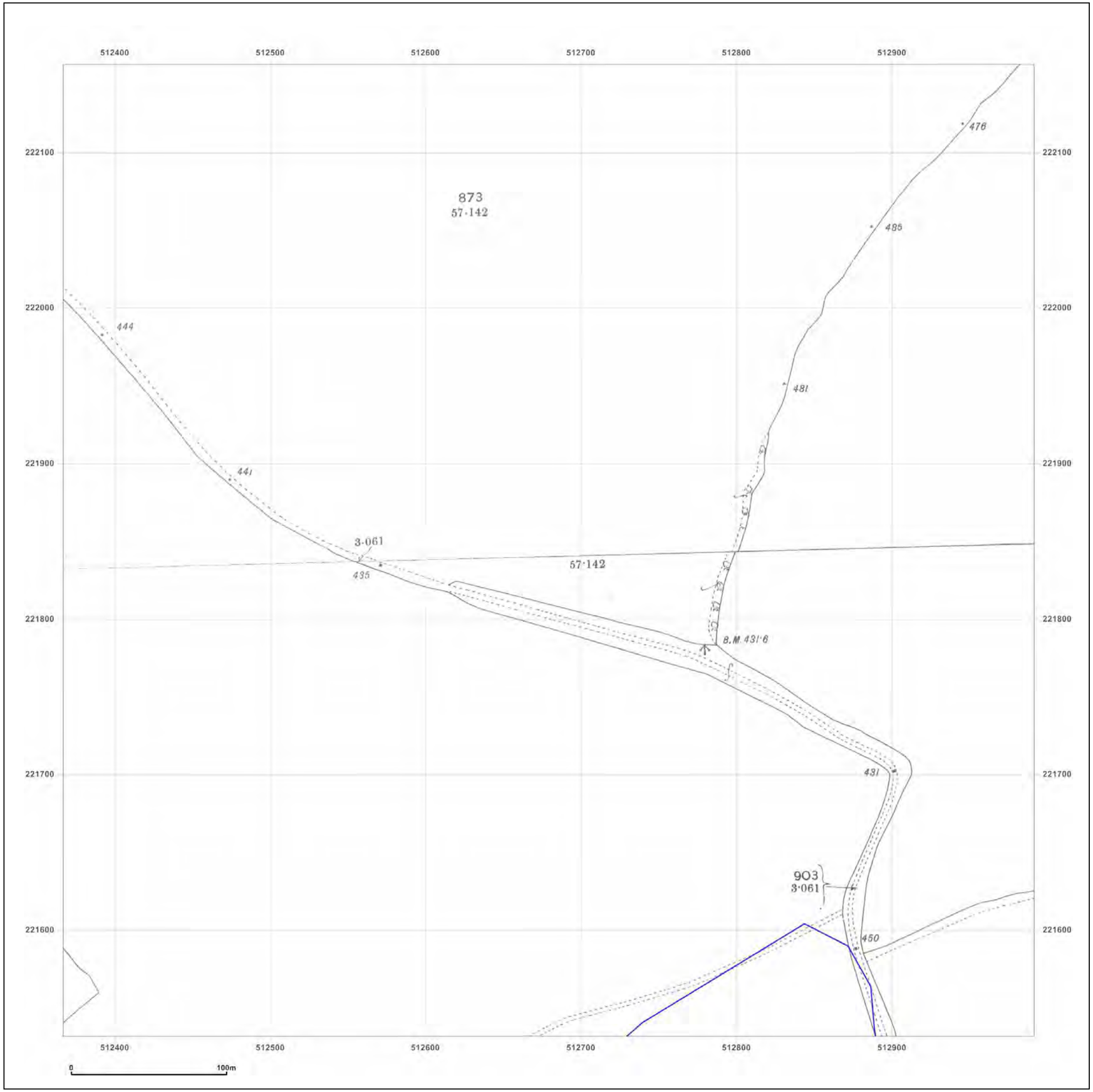

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_2
Grid Ref: 512679, 221844

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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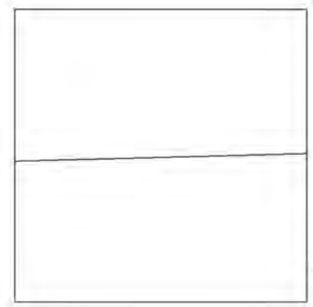

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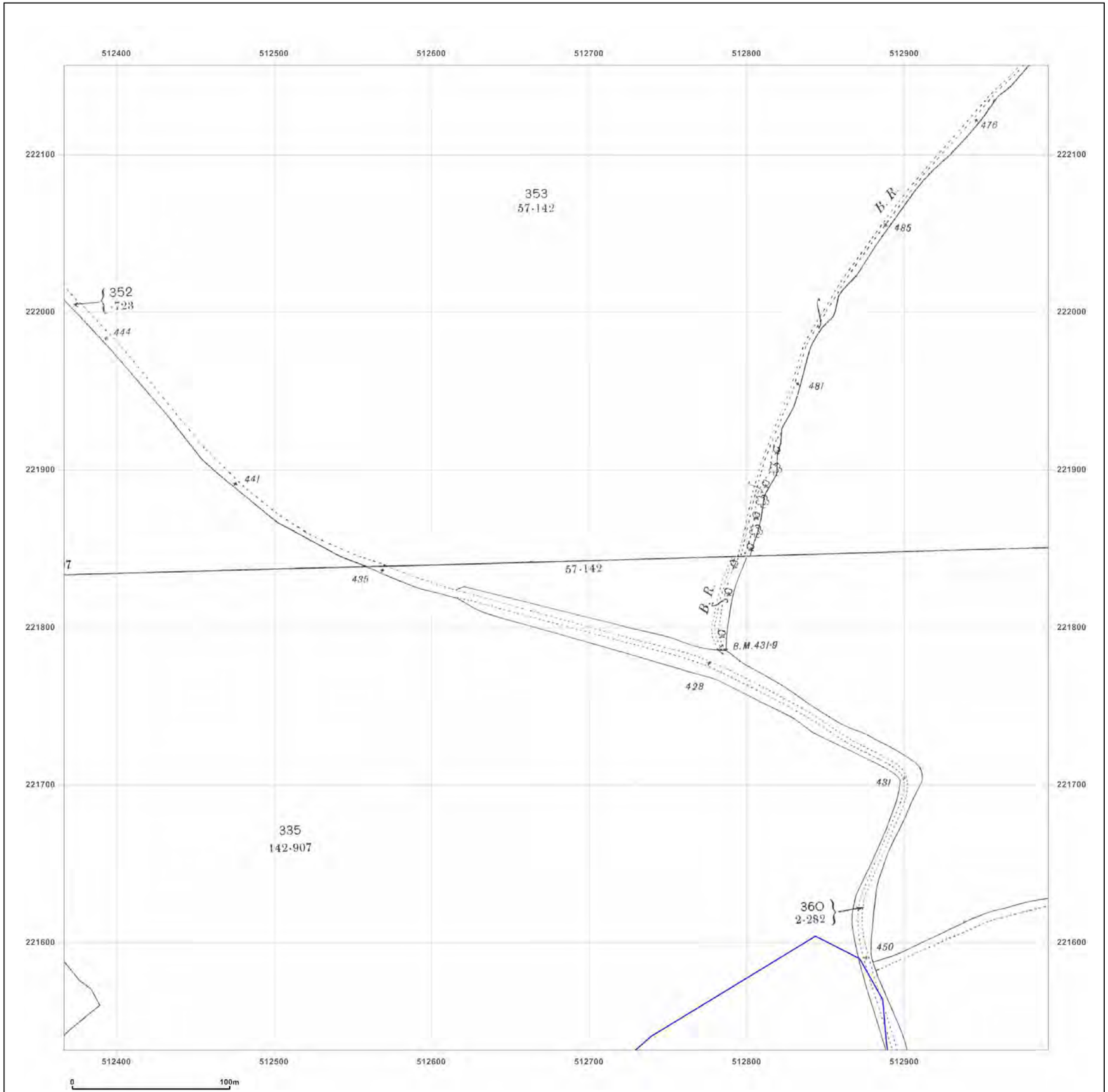

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_2
Grid Ref: 512679, 221844

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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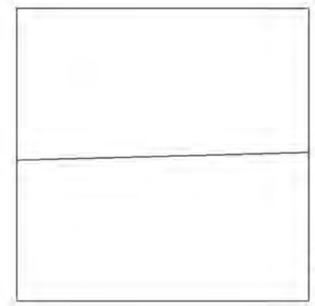

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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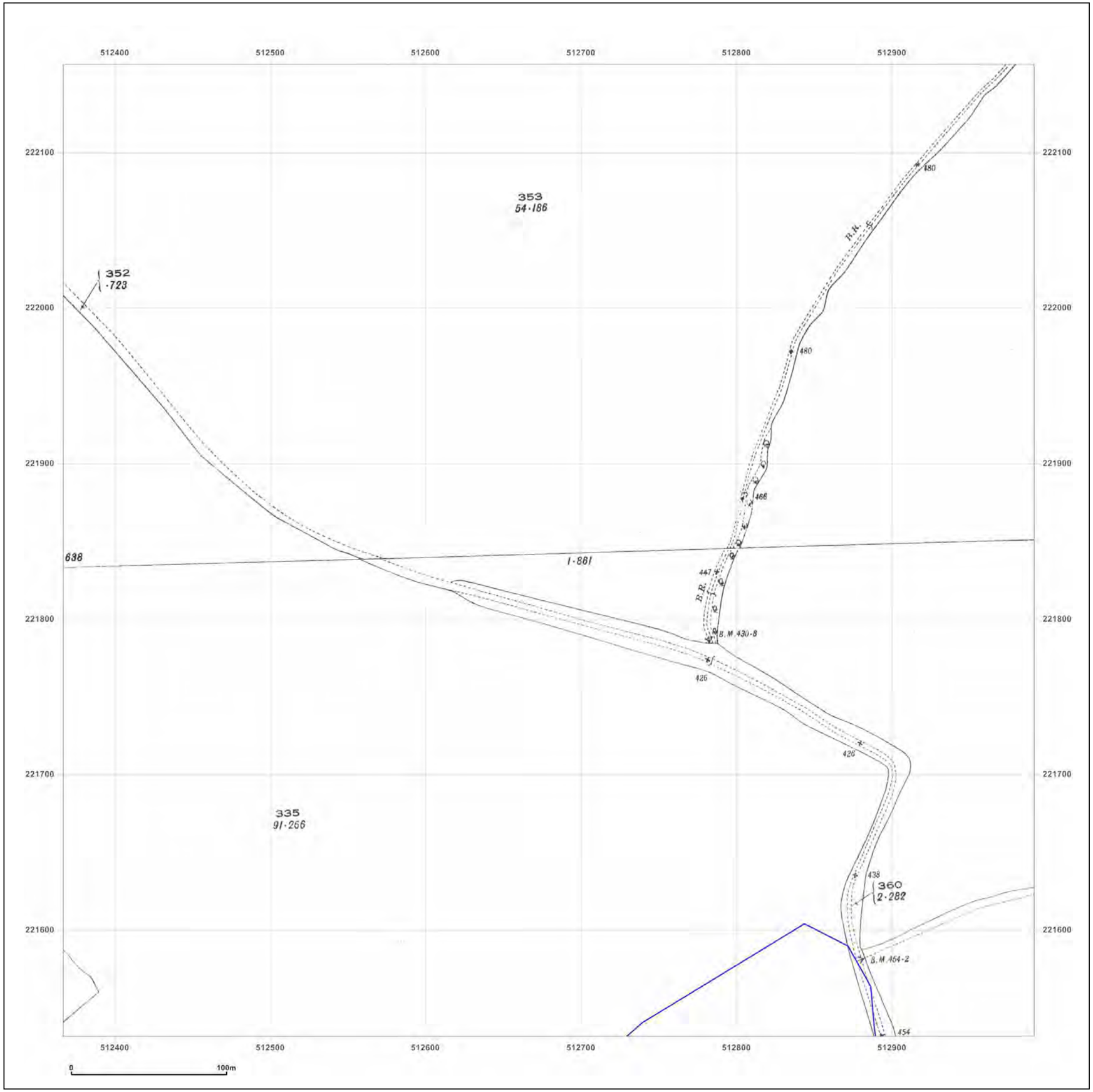


Groundsure INSIGHTS

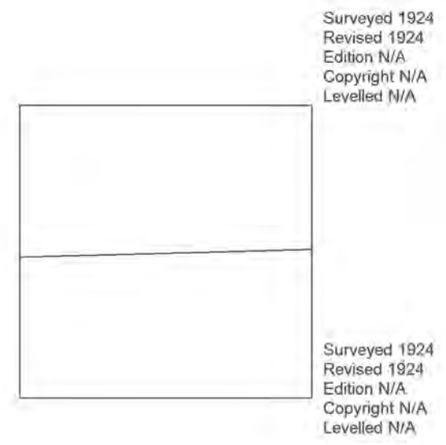
Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_2
Grid Ref: 512679, 221844

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



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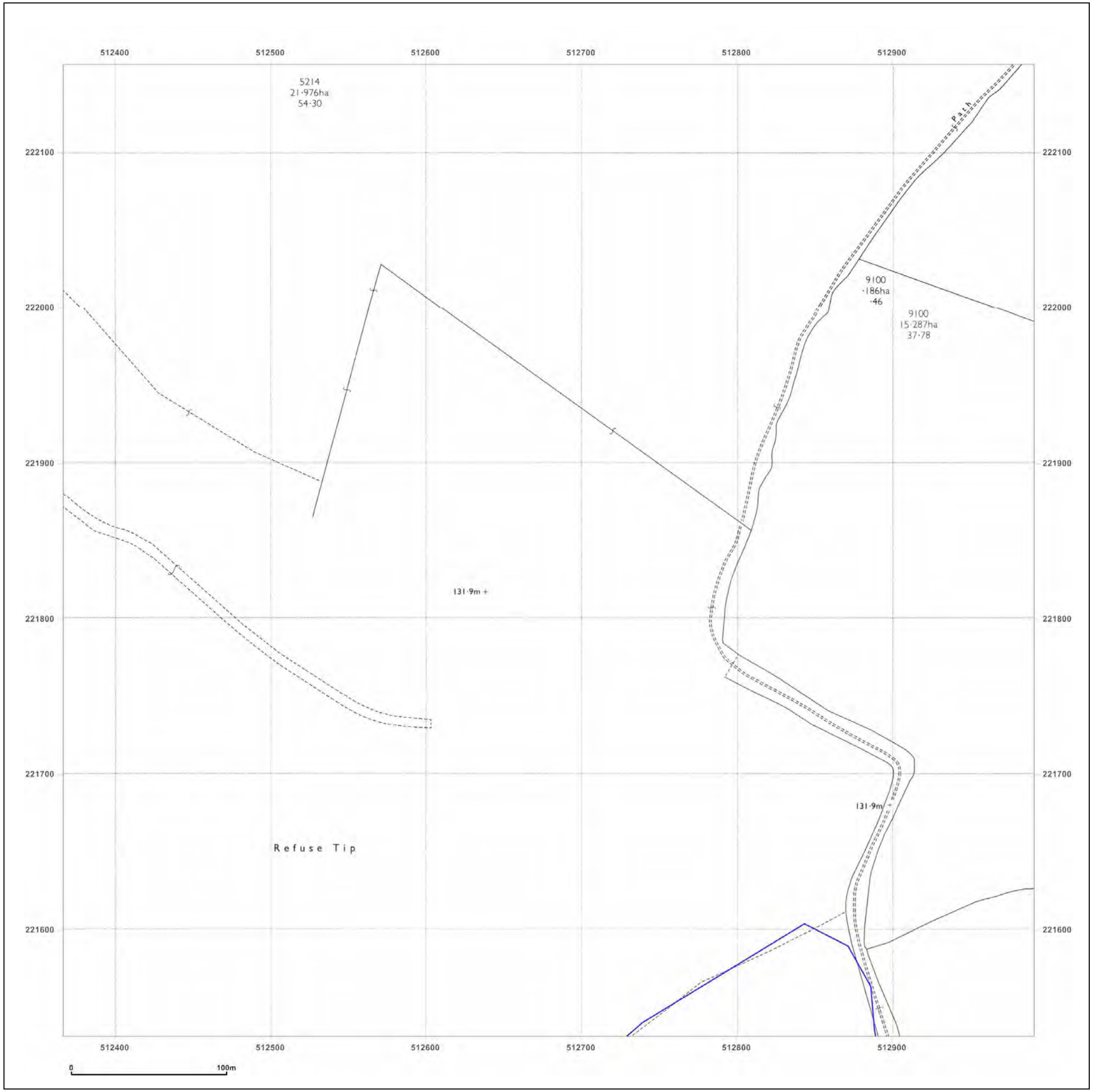


Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_2
Grid Ref: 512679, 221844

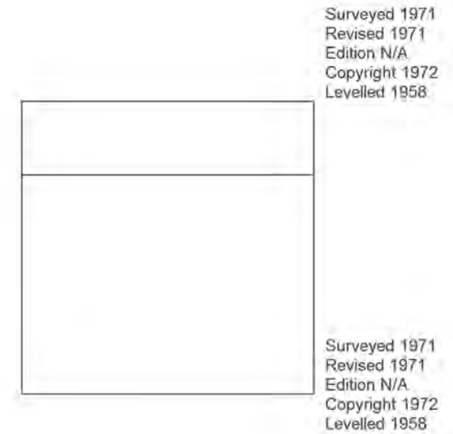
Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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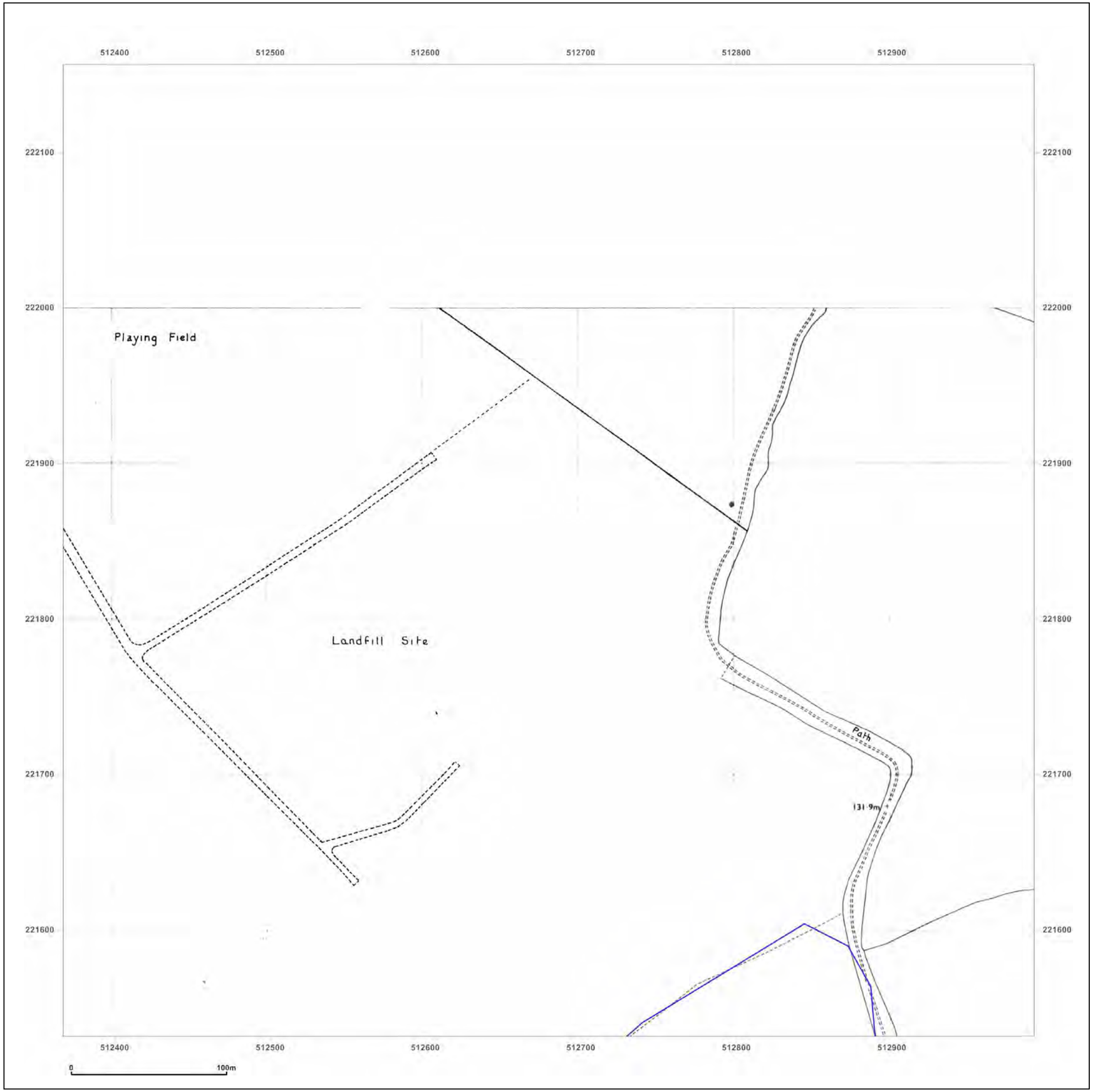

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_2
Grid Ref: 512679, 221844

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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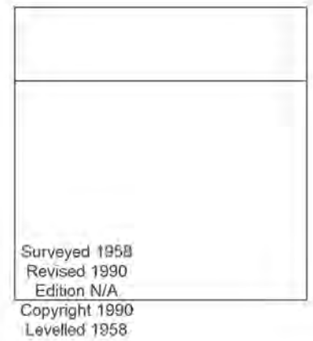

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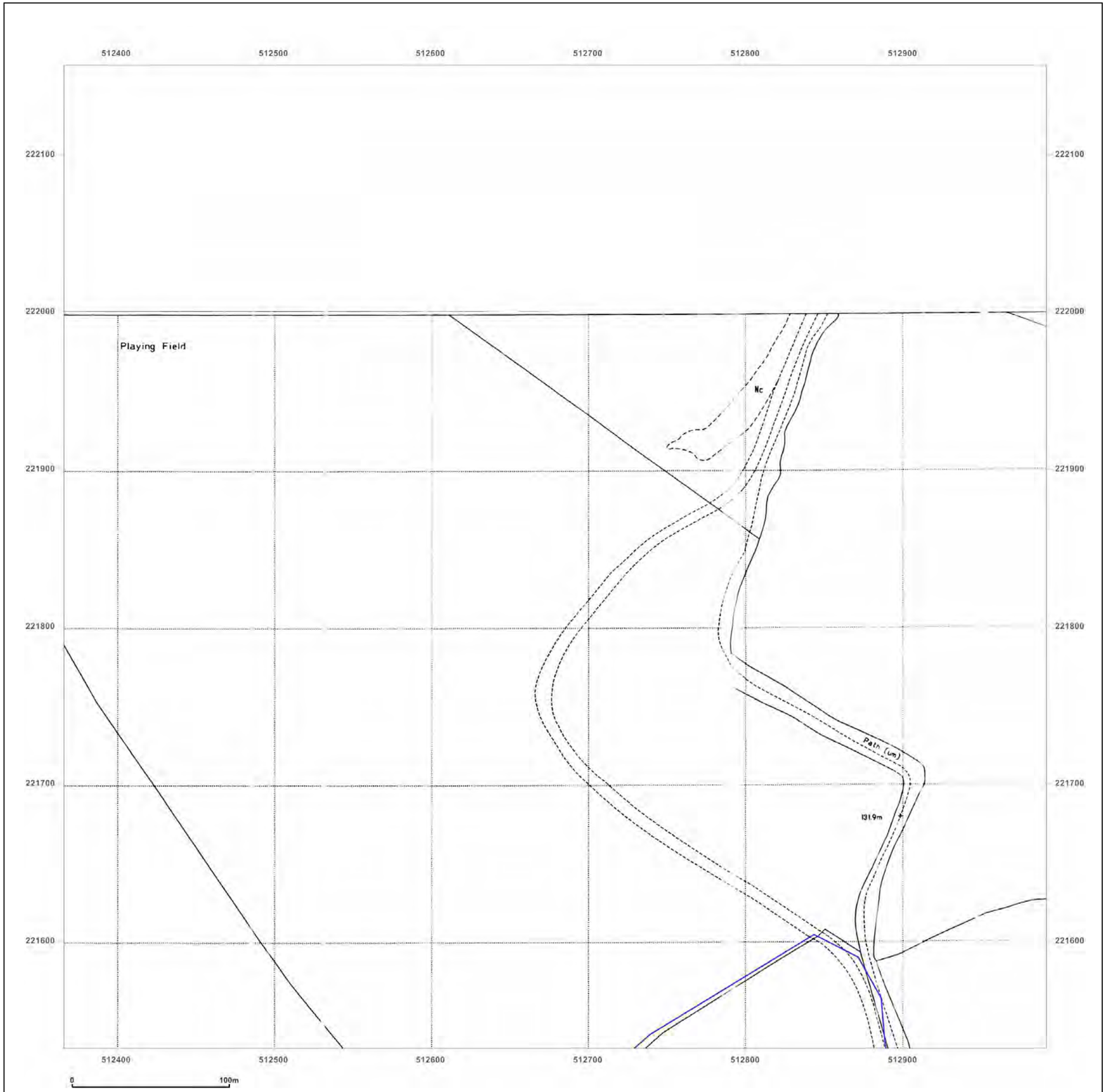

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_2
Grid Ref: 512679, 221844

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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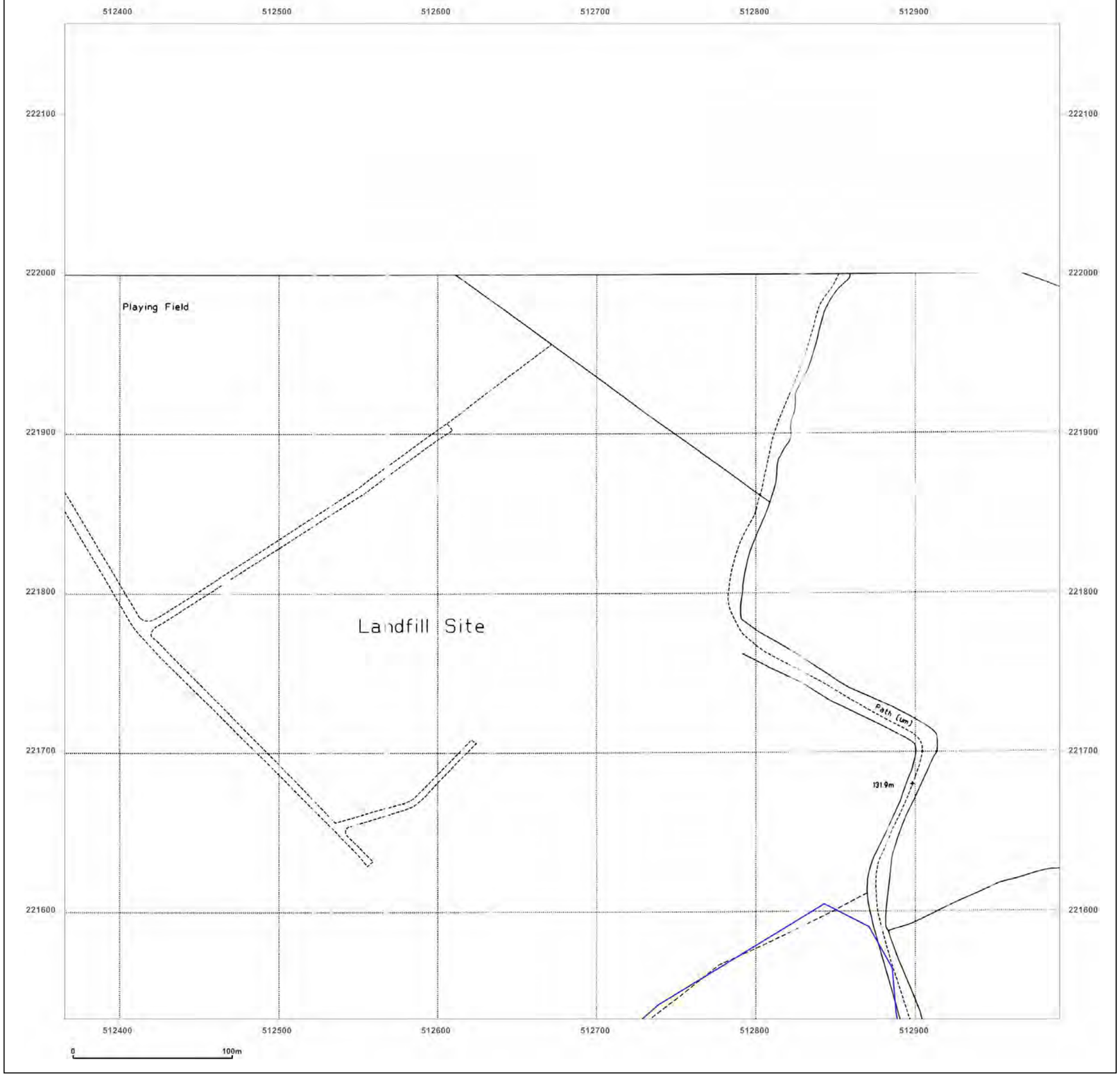

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_2
Grid Ref: 512679, 221844

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
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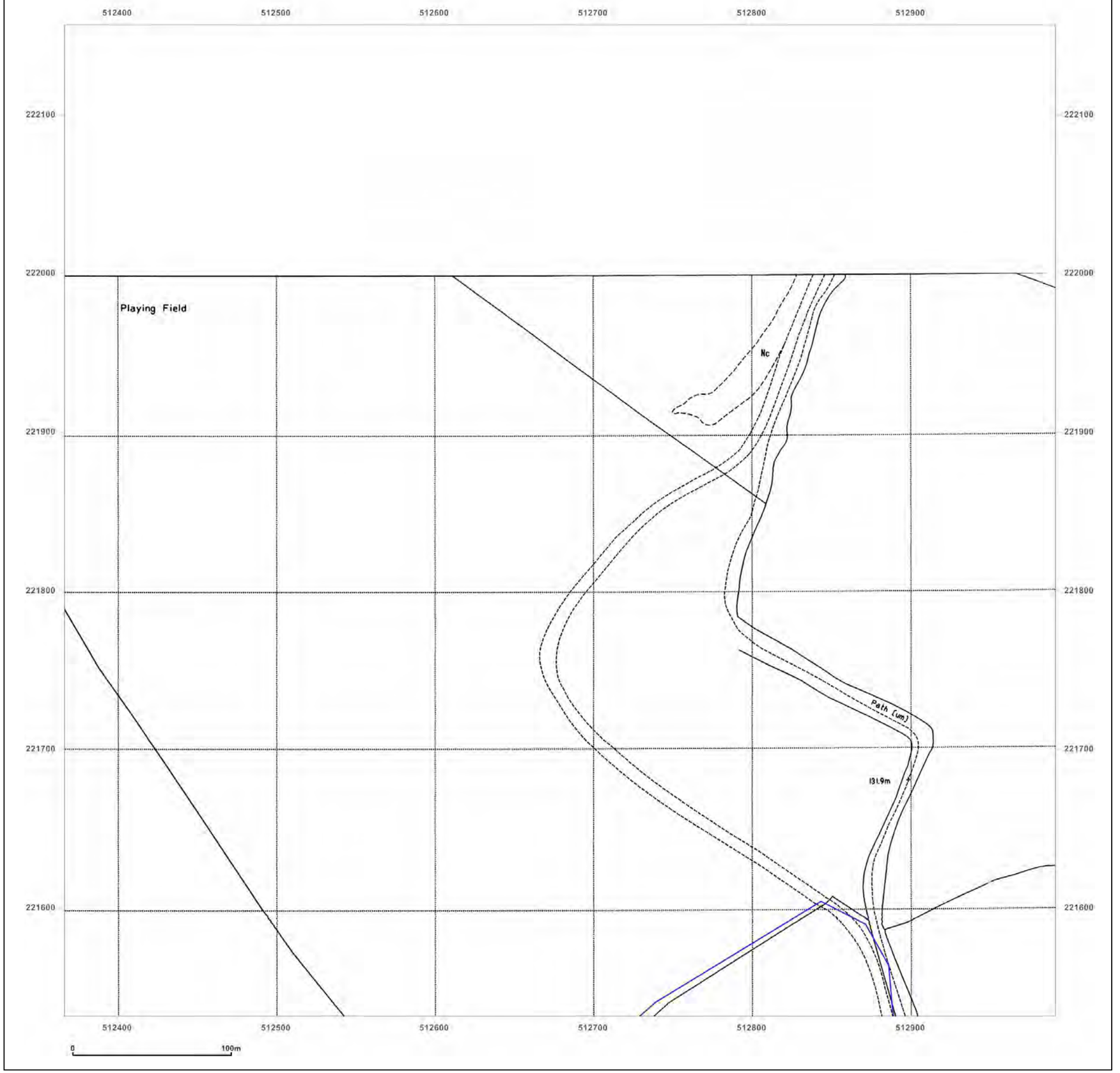

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_2
Grid Ref: 512679, 221844

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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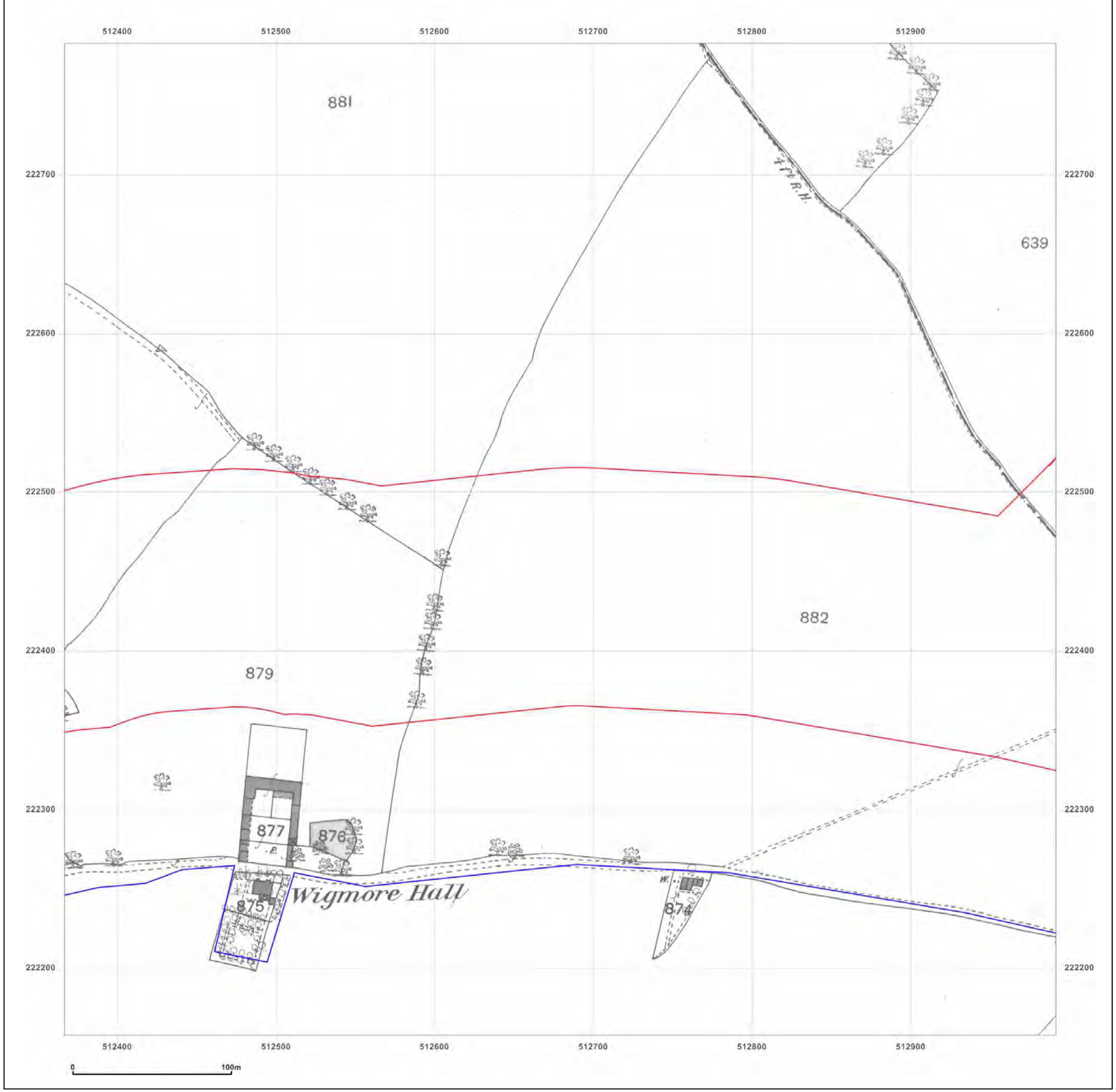

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_3
Grid Ref: 512679, 222470

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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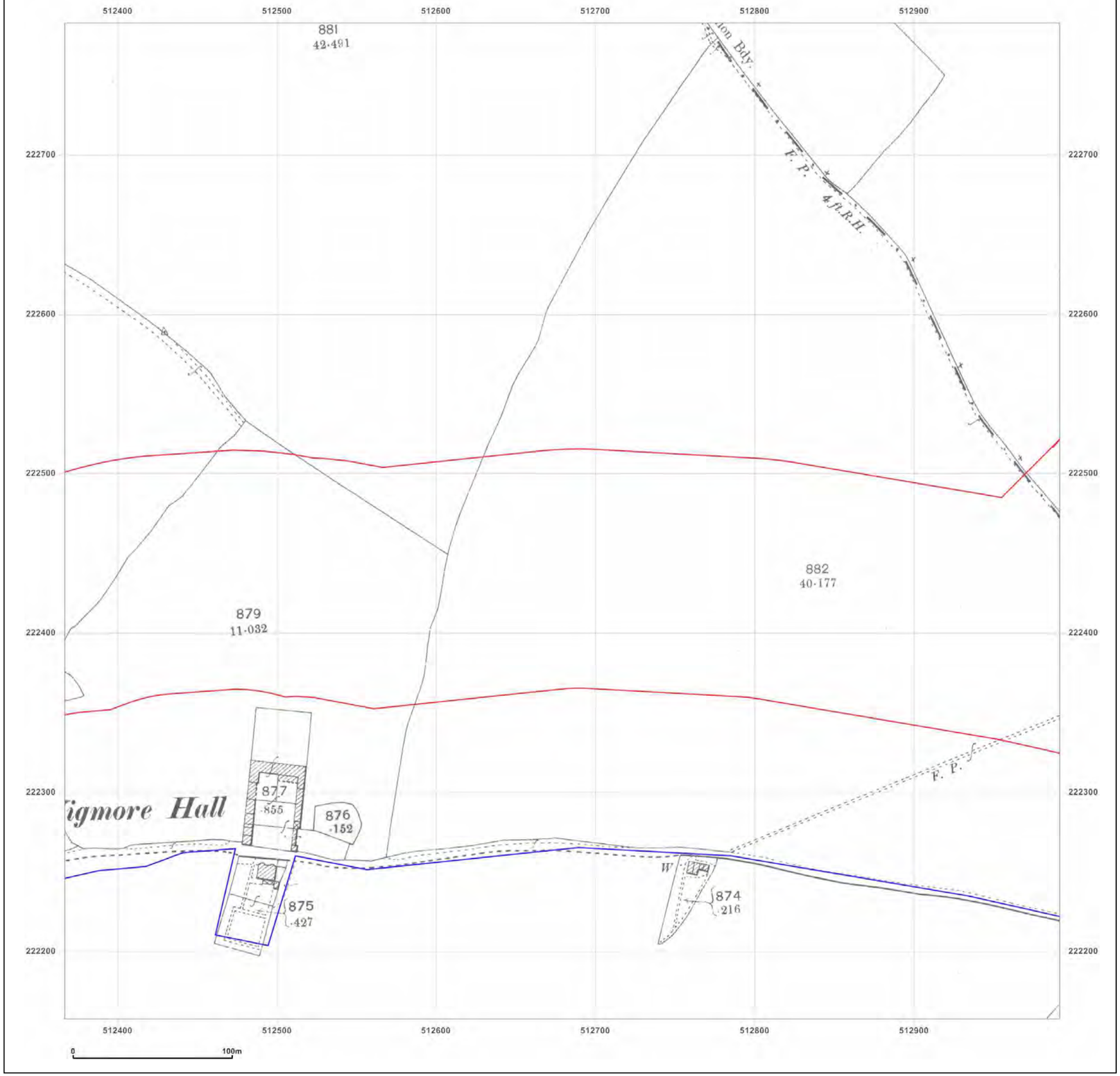

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_3
Grid Ref: 512679, 222470

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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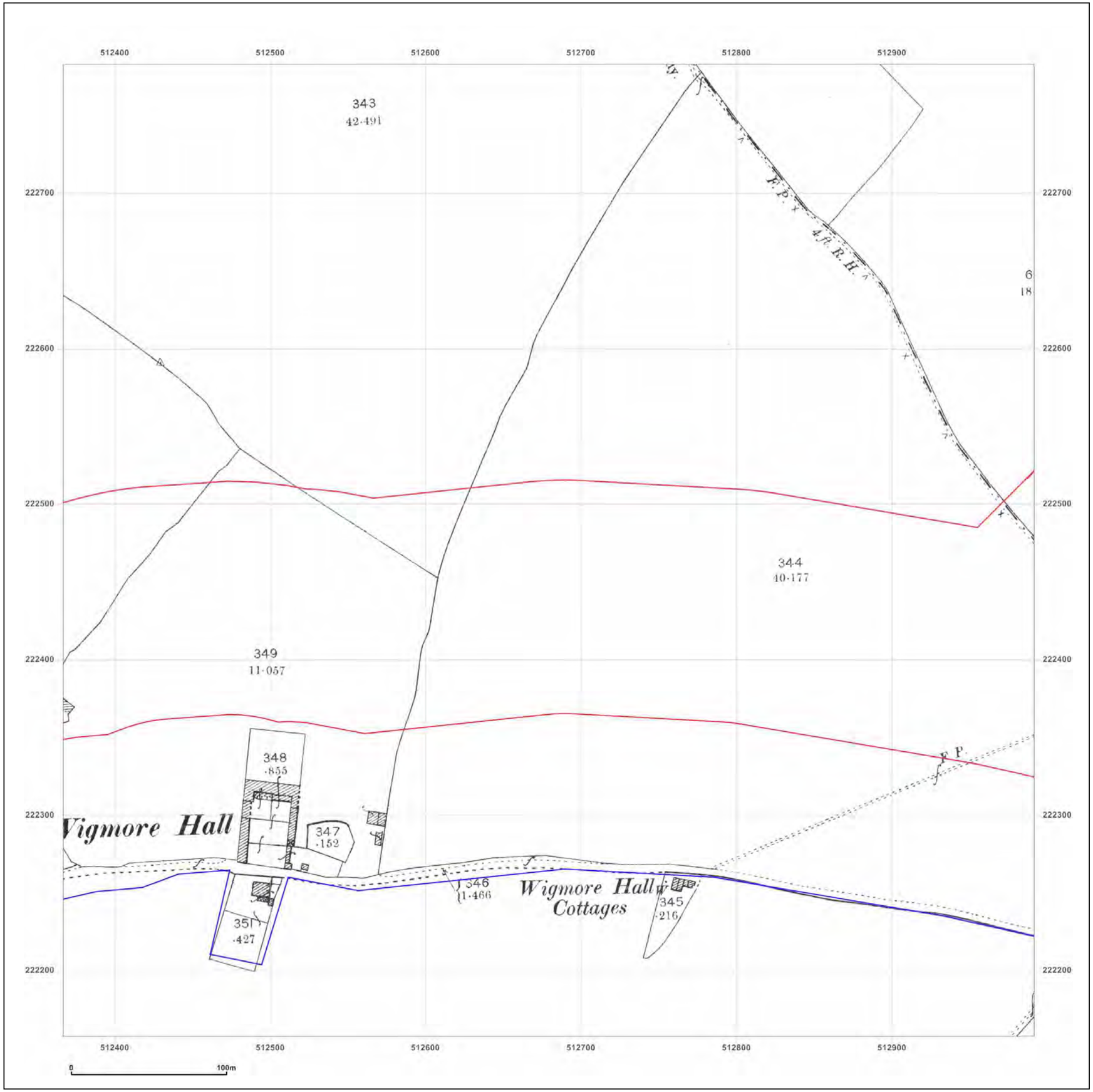

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_3
Grid Ref: 512679, 222470

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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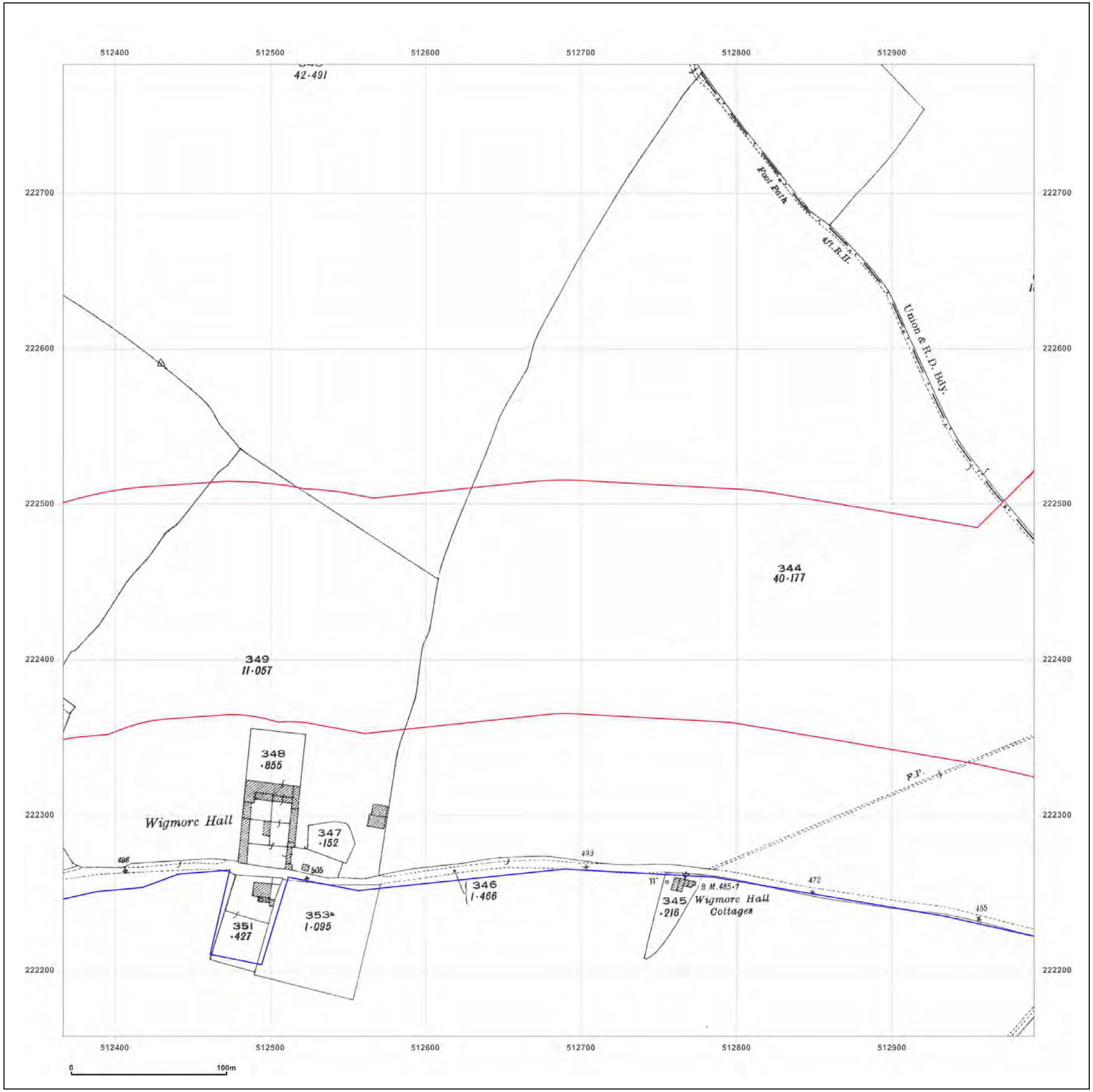

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_3
Grid Ref: 512679, 222470

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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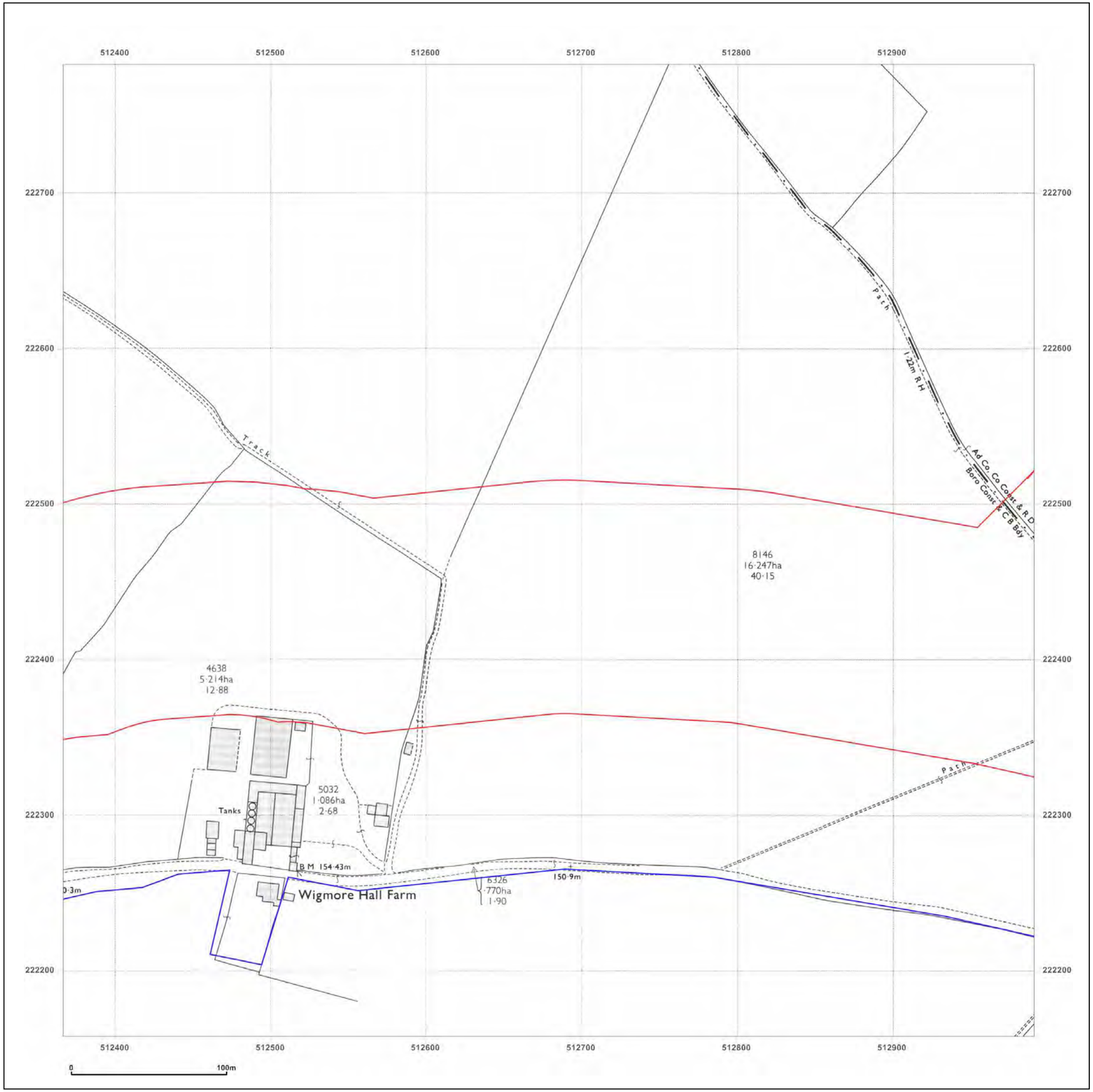

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_2_3
Grid Ref: 512679, 222470

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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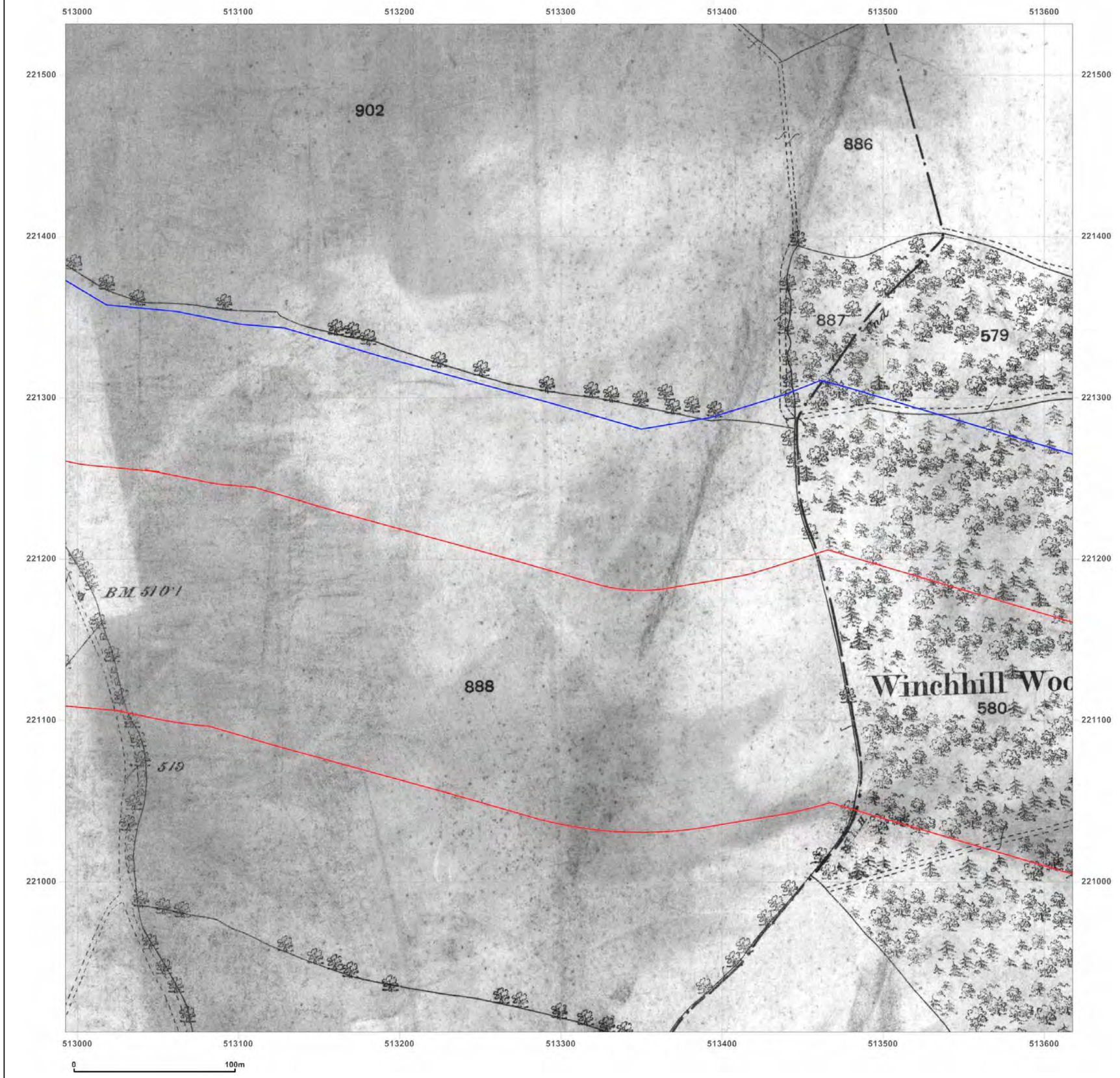

Site Details:

513326.29595395754, 221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_1
Grid Ref: 513305, 221219

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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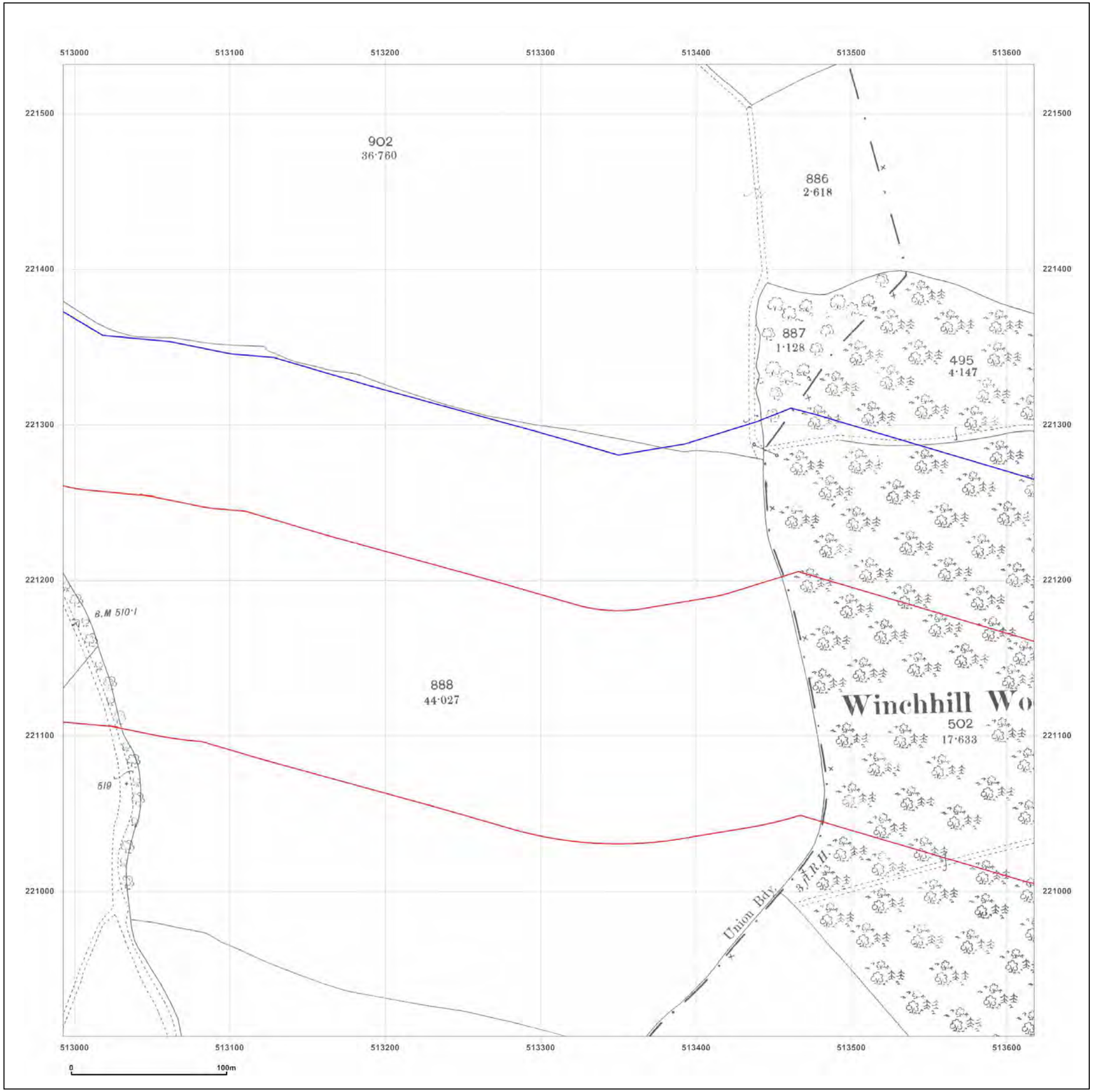

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_1
Grid Ref: 513305, 221219

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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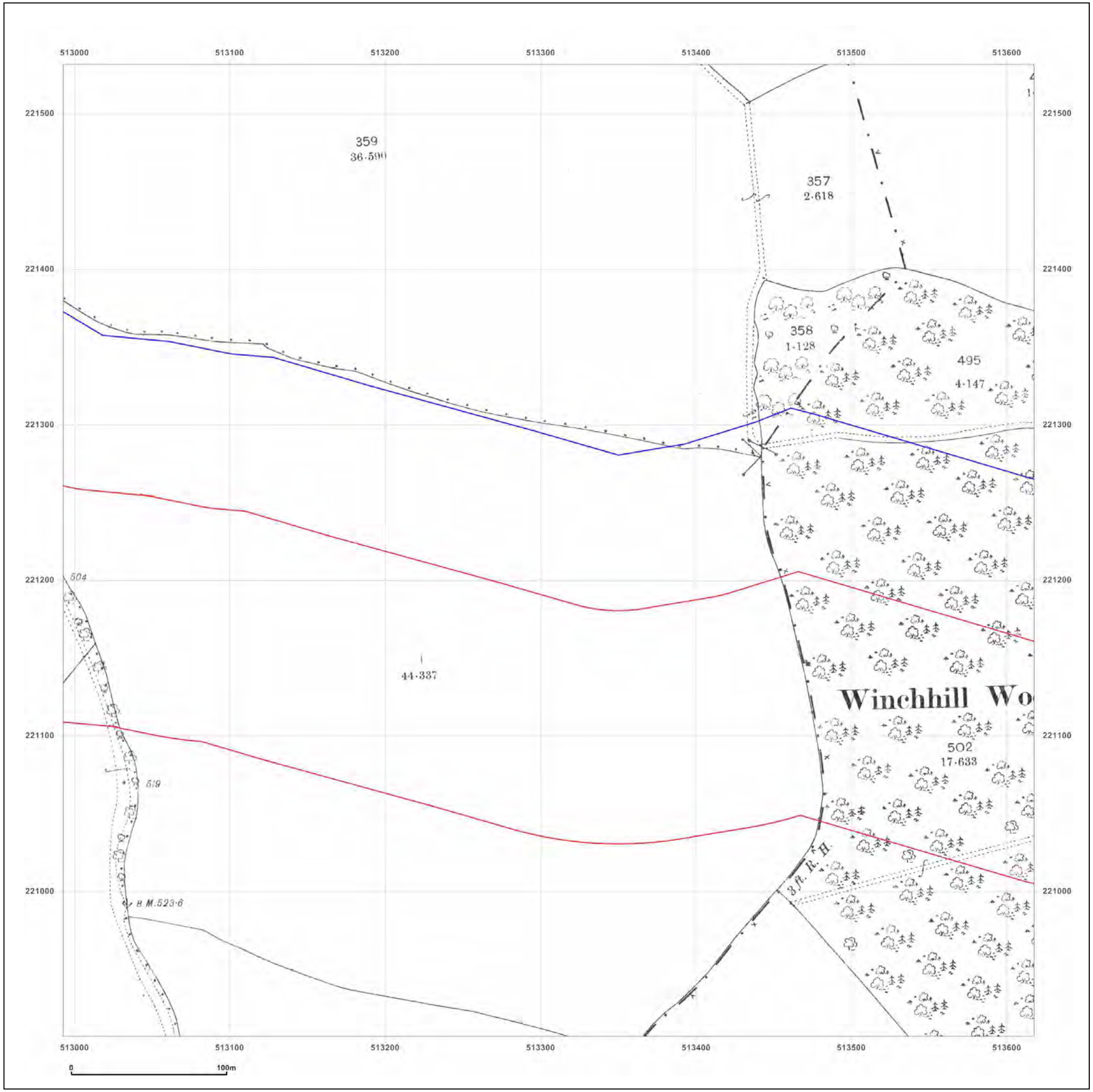

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_1
Grid Ref: 513305, 221219

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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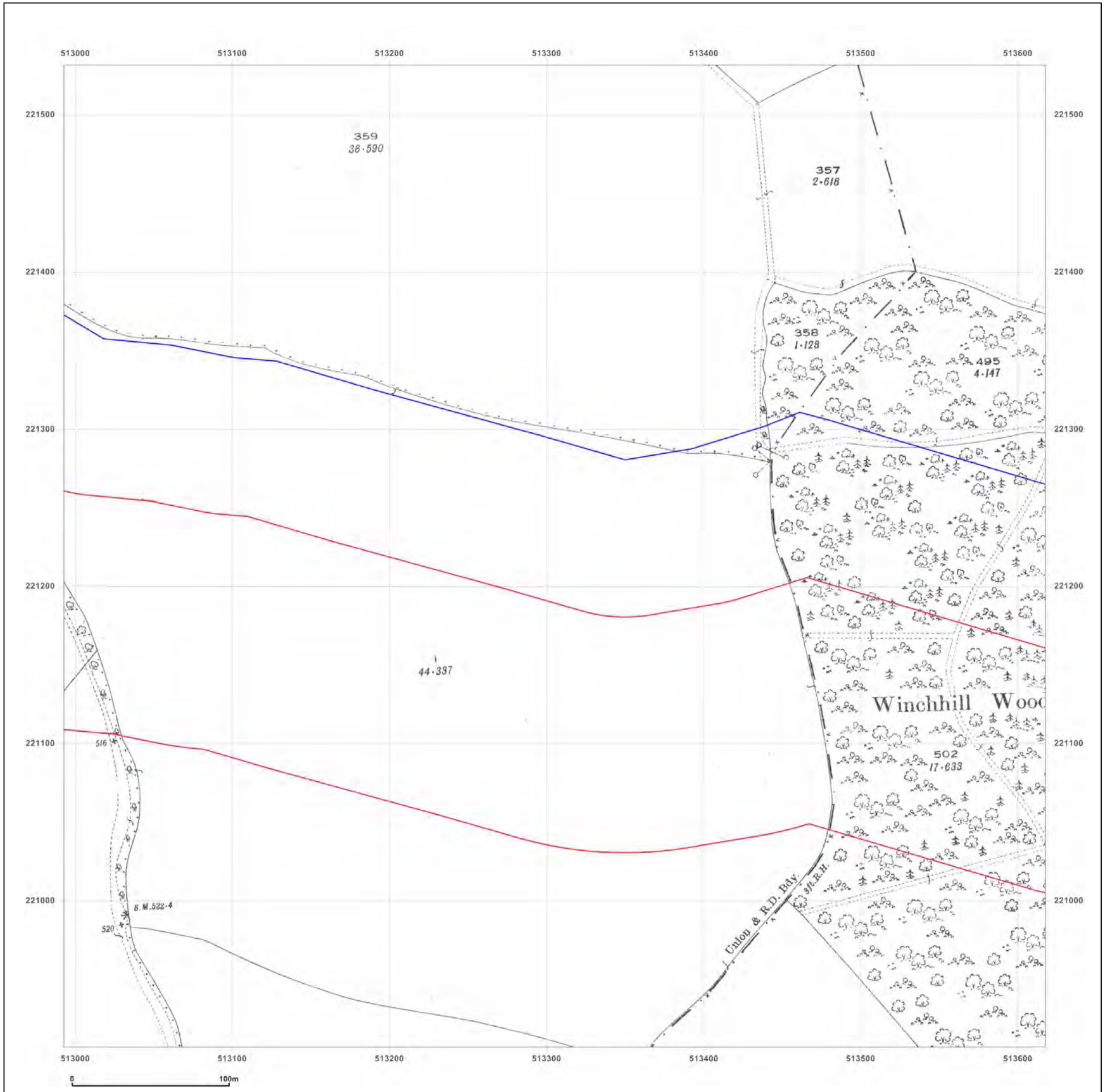

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_1
Grid Ref: 513305, 221219

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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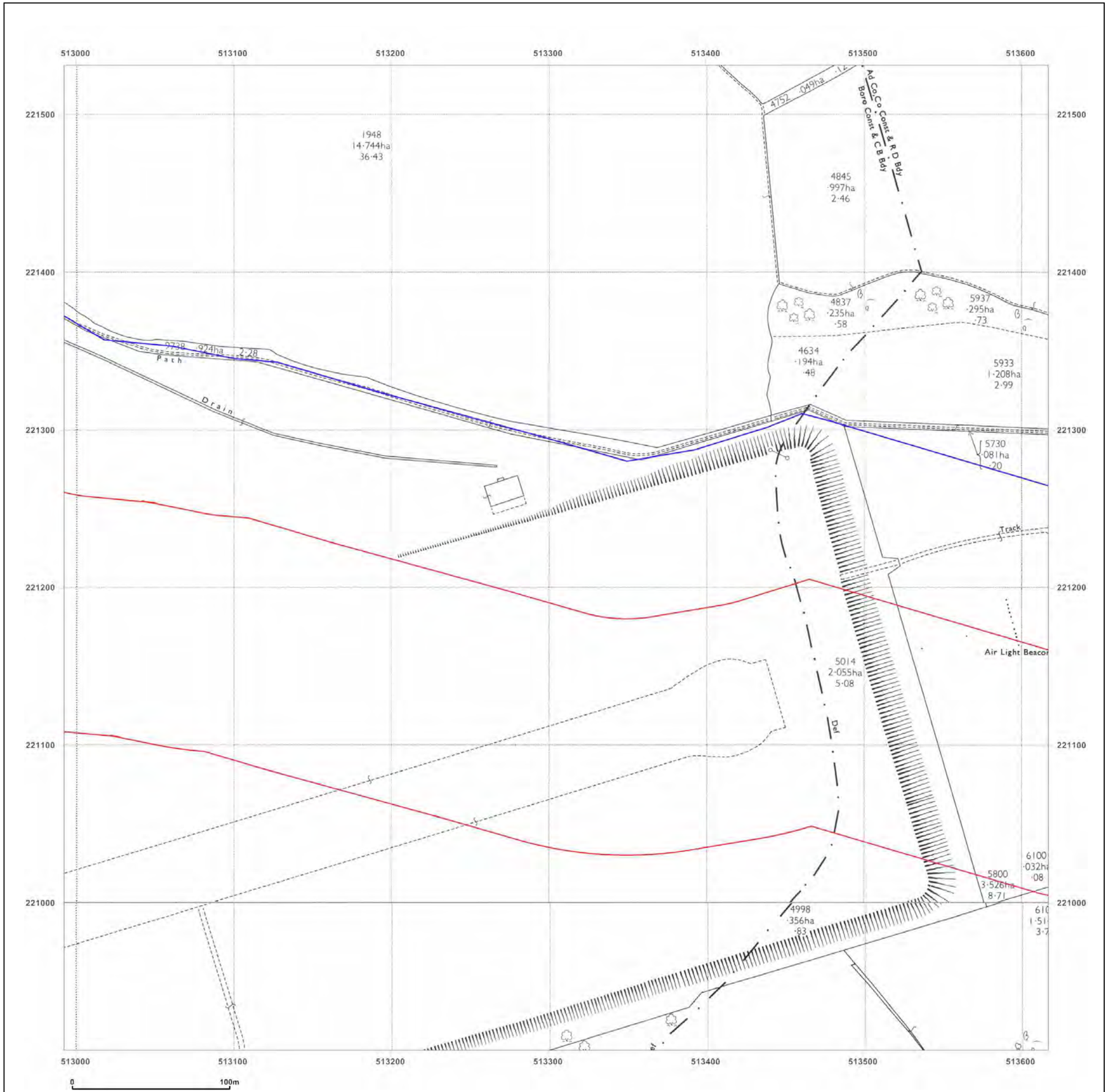

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_1
Grid Ref: 513305, 221219

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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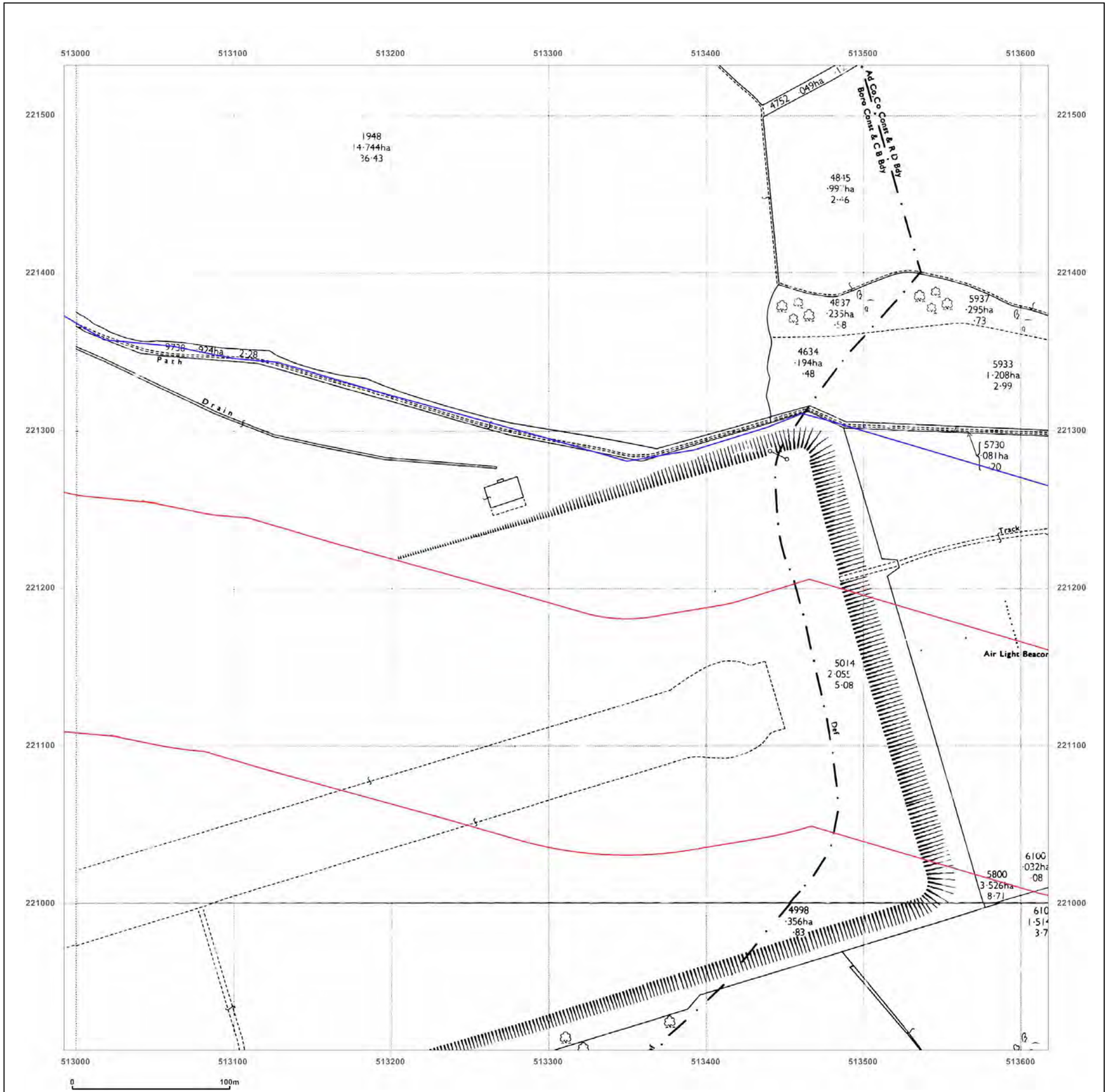

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_1
Grid Ref: 513305, 221219

Map Name: National Grid

Map date: **1972-1973**

Scale: 1:2,500

Printed at: 1:2,500

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

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

Surveyed N/A
Revised N/A
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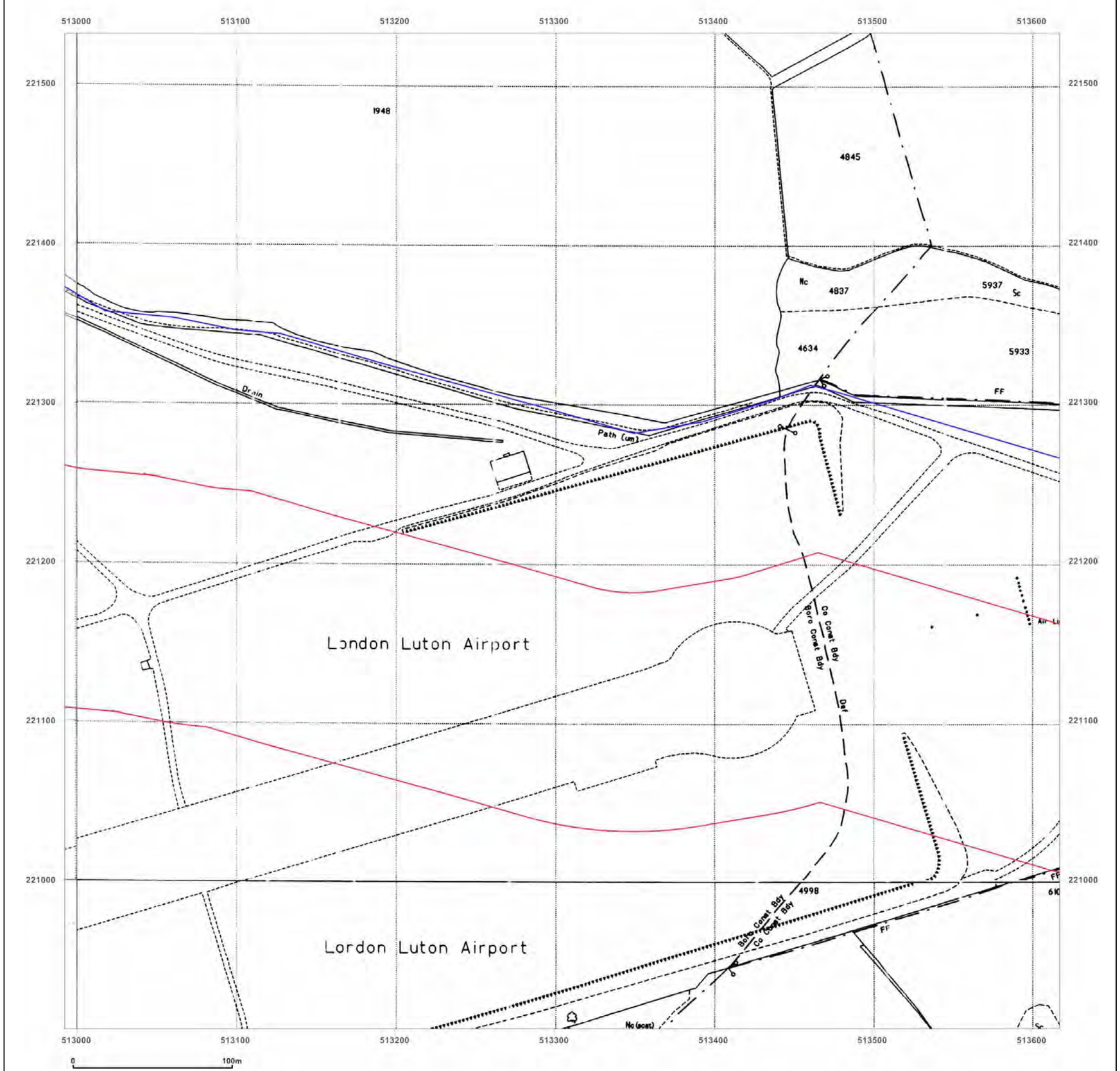

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_1
Grid Ref: 513305, 221219

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

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

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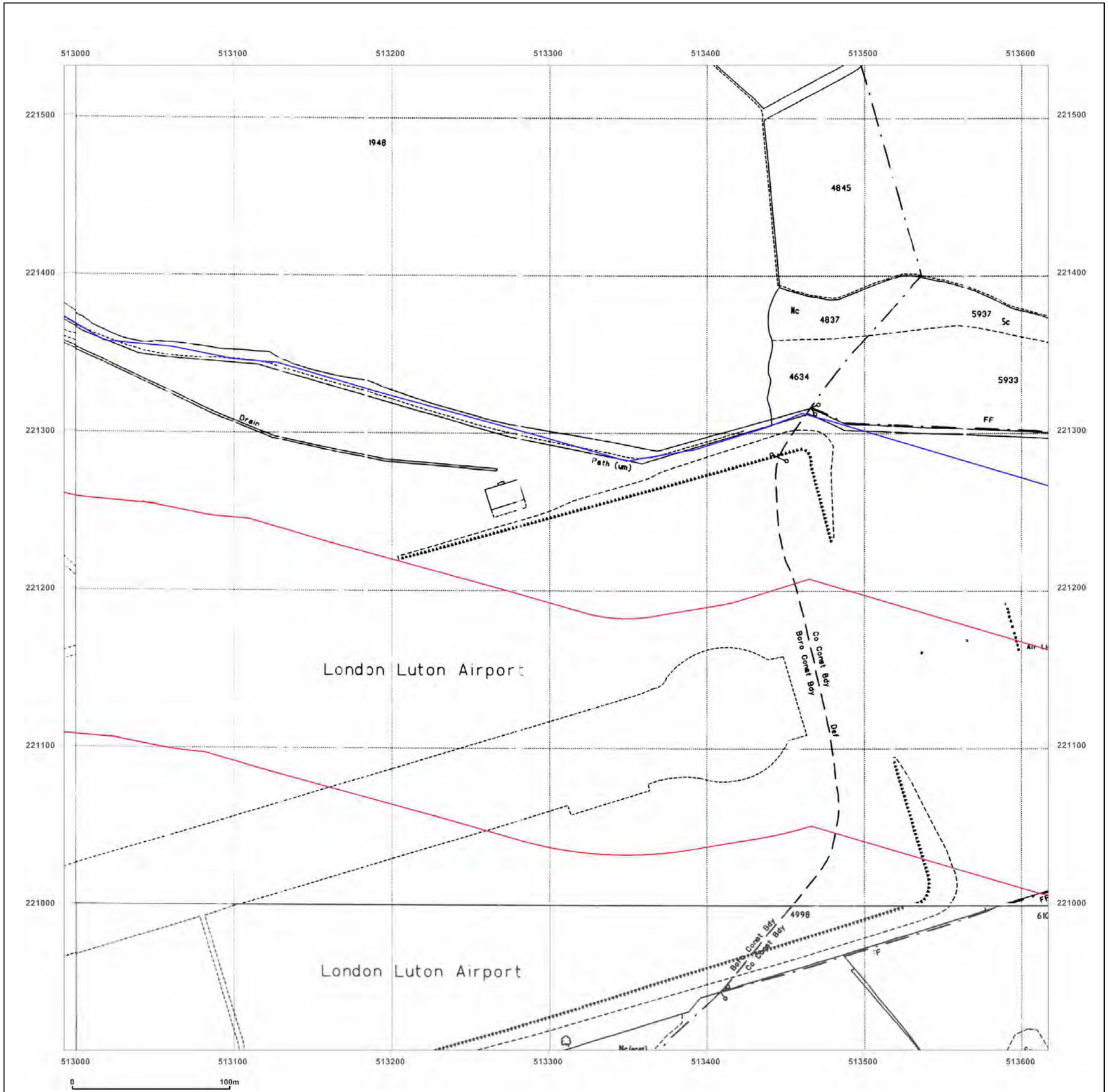

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_1
Grid Ref: 513305, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Revised N/A
Edition N/A
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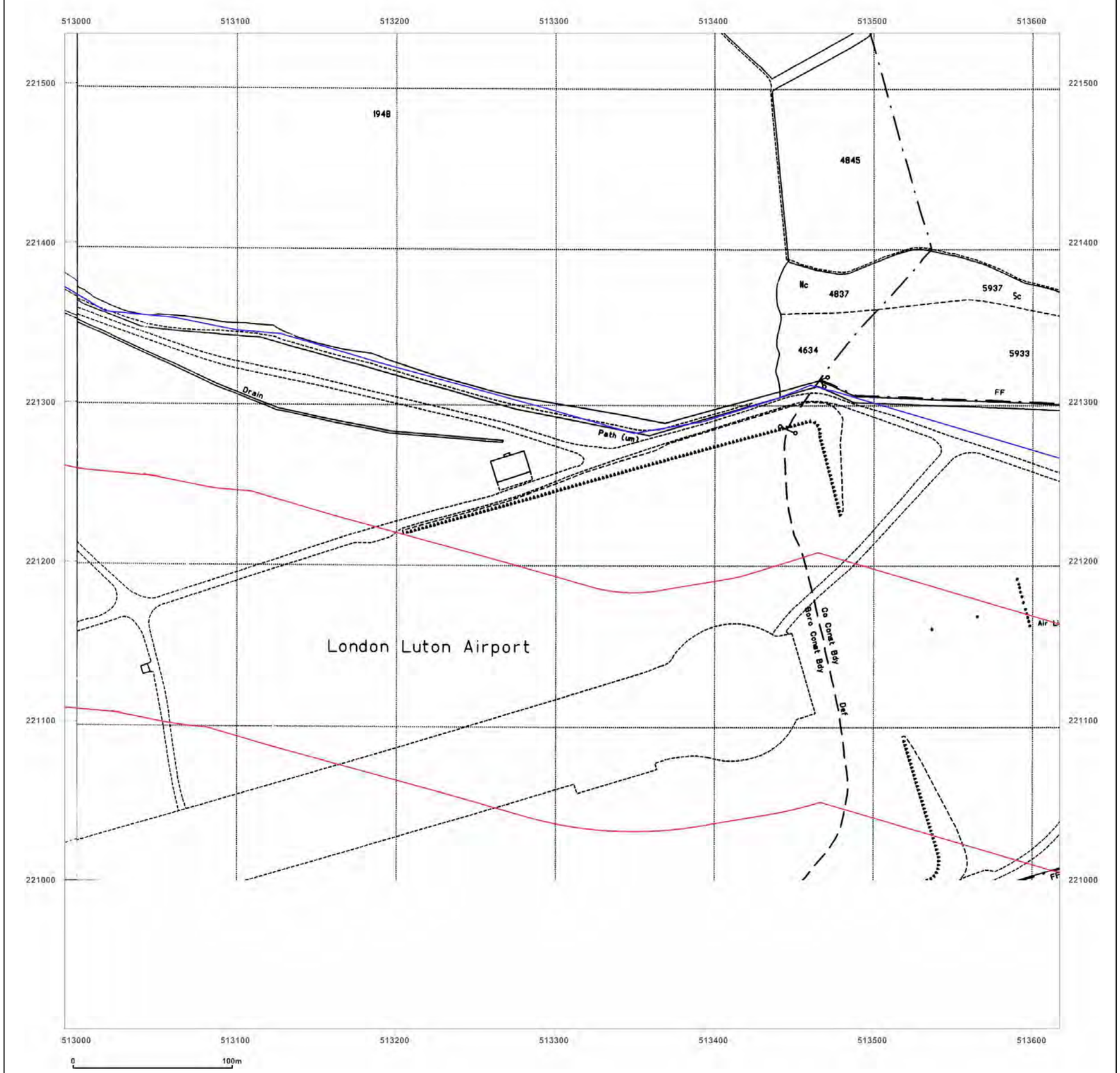

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_1
Grid Ref: 513305, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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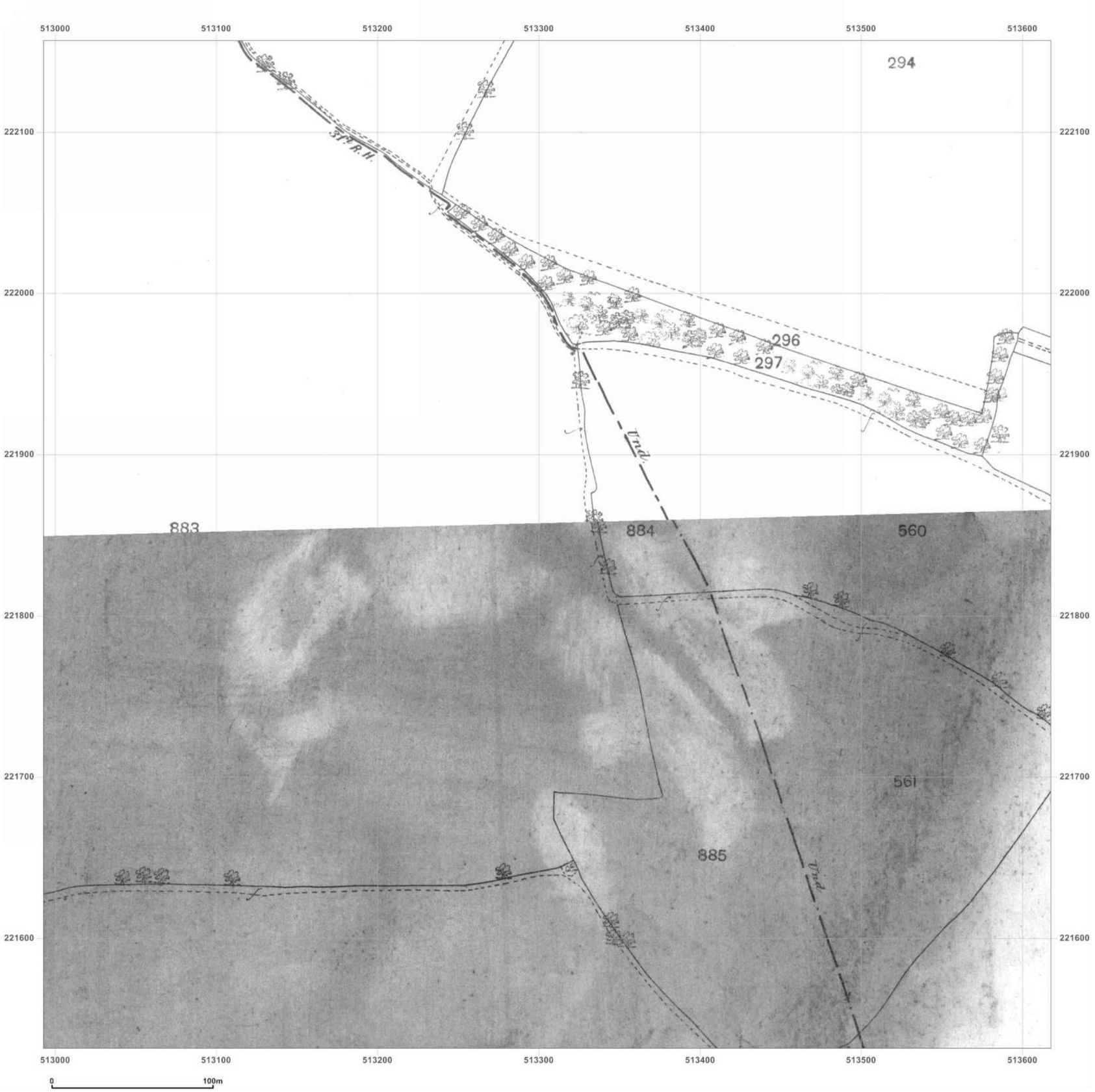

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_2
Grid Ref: 513305, 221844

Map Name: County Series
Map date: **1881**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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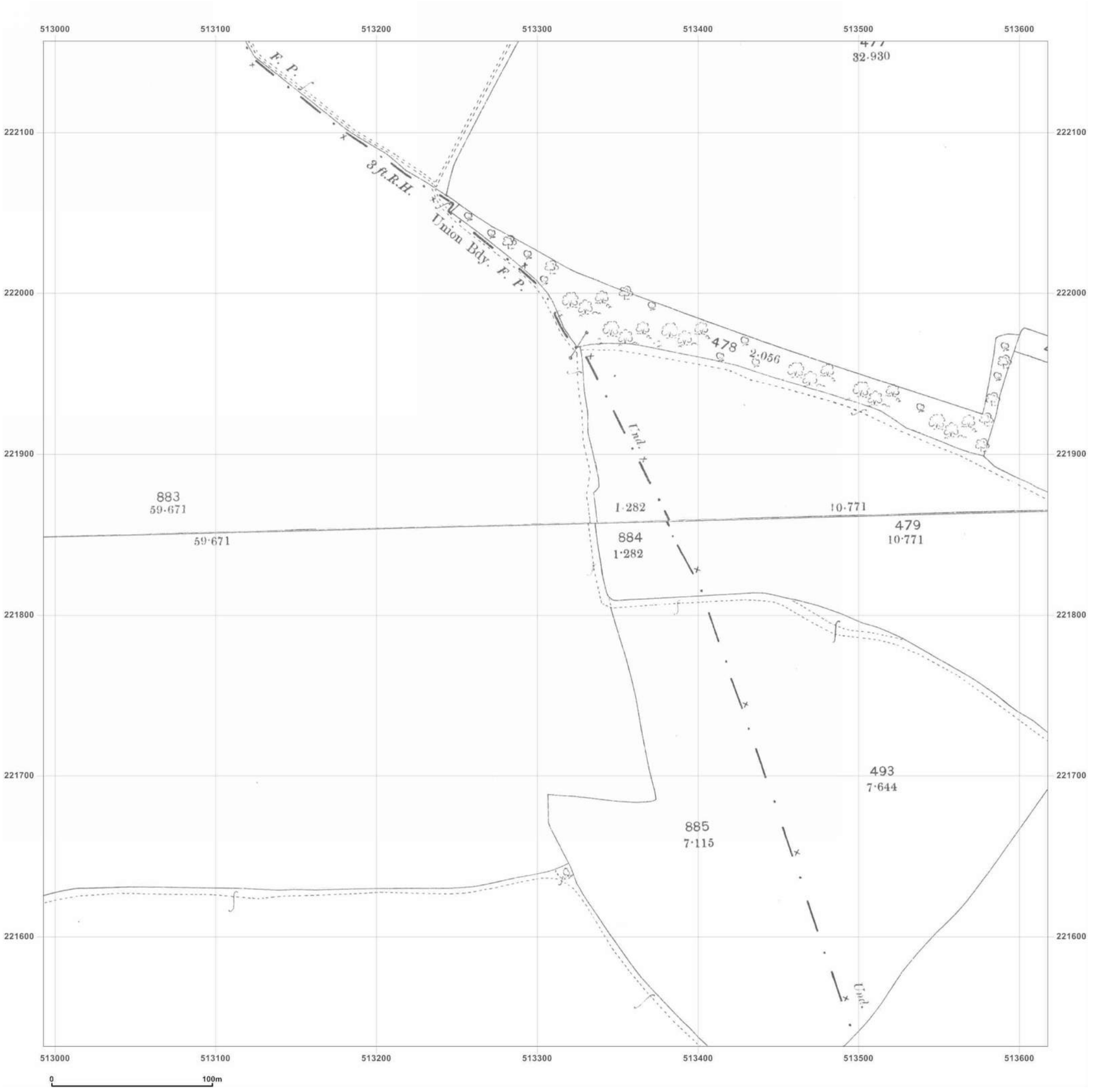


Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_2
Grid Ref: 513305, 221844

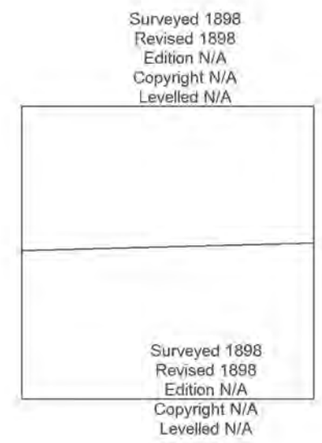
Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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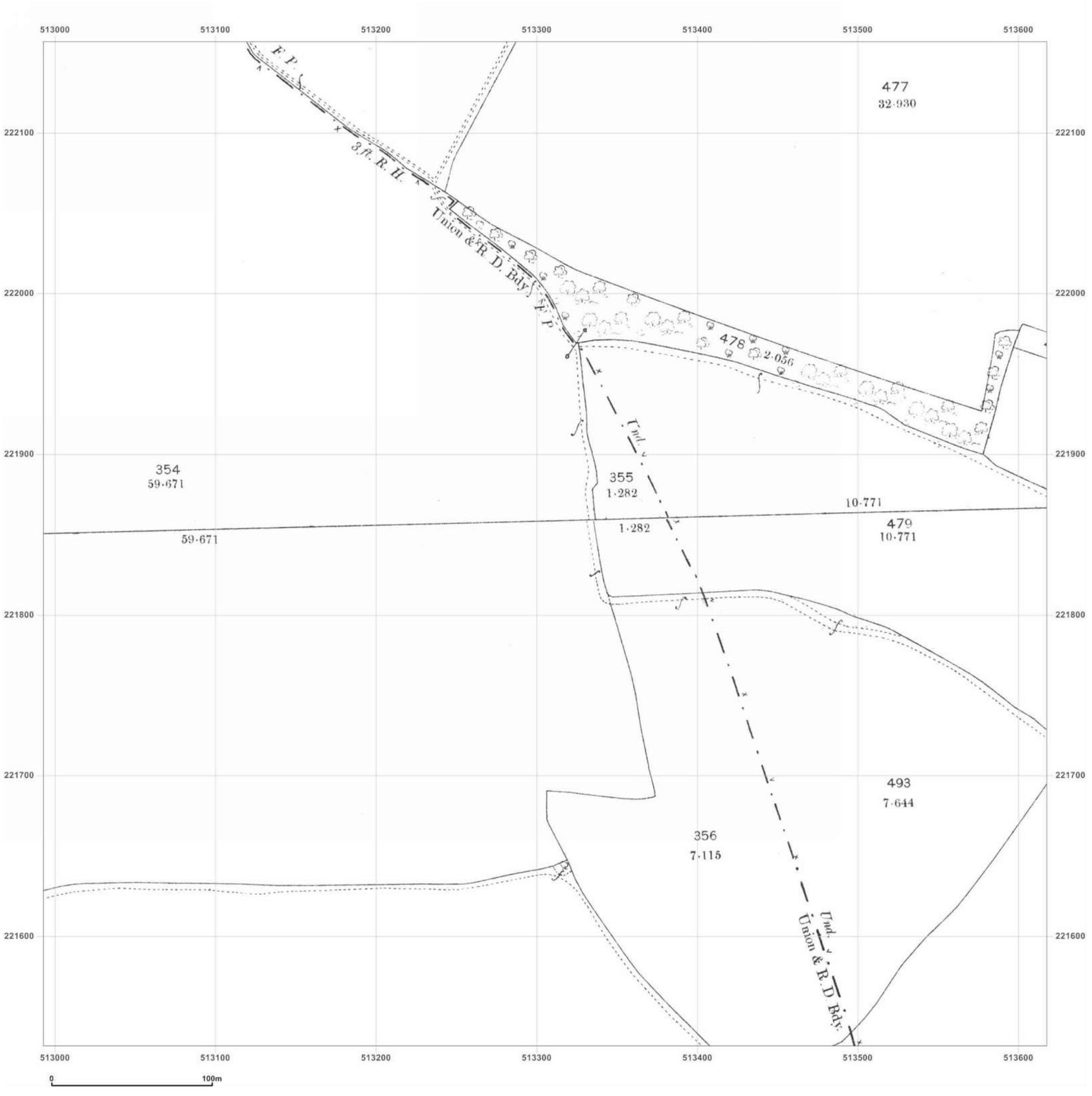


Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_2
Grid Ref: 513305, 221844

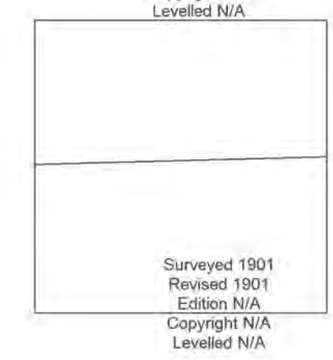
Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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Production date: 16 October 2018

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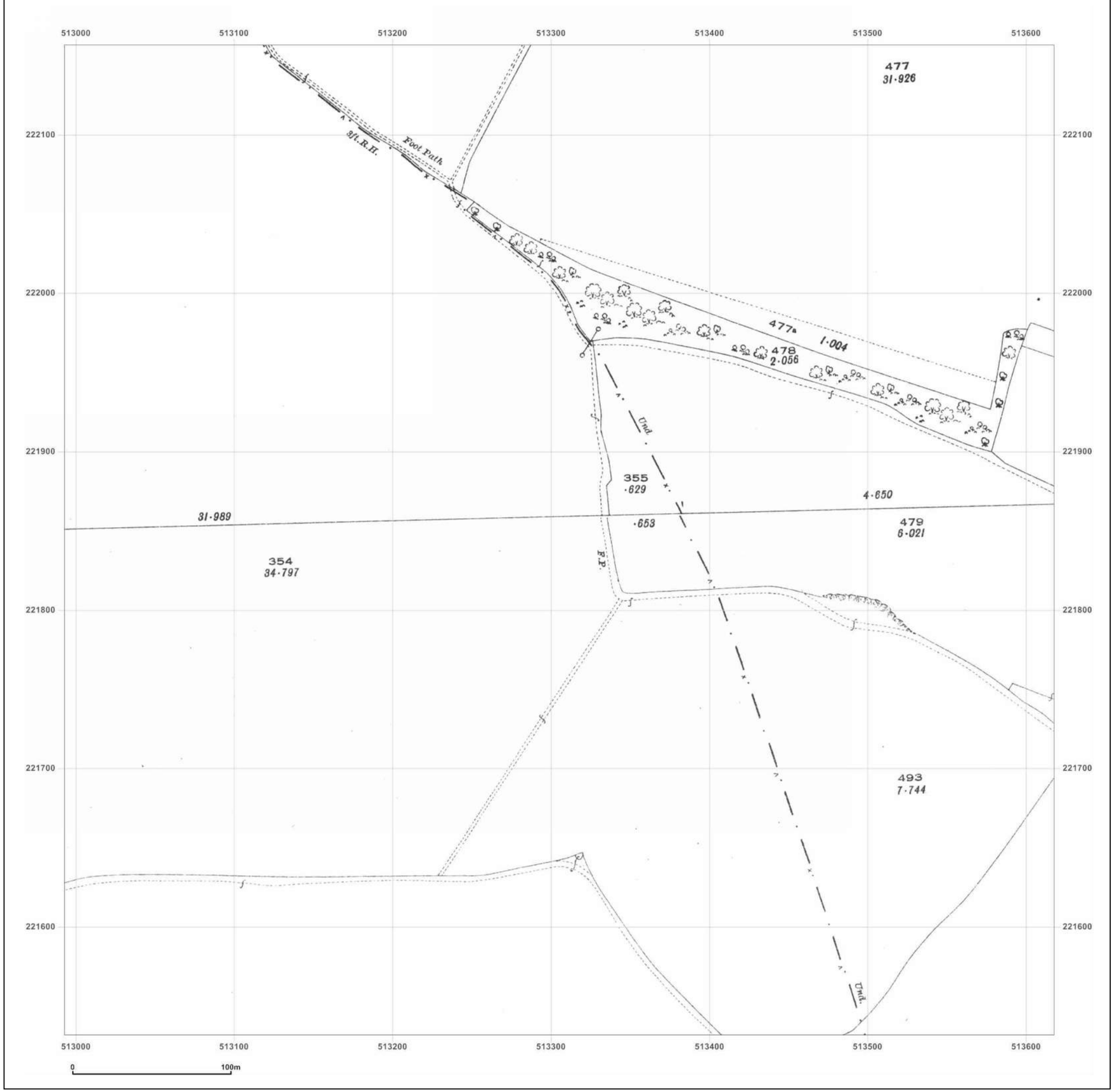

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_2
Grid Ref: 513305, 221844

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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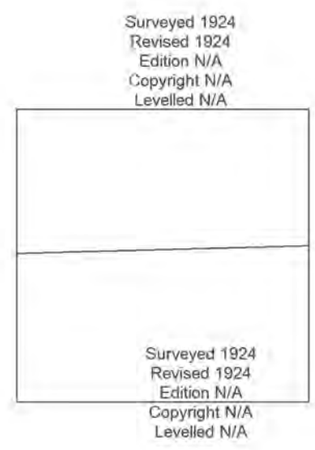

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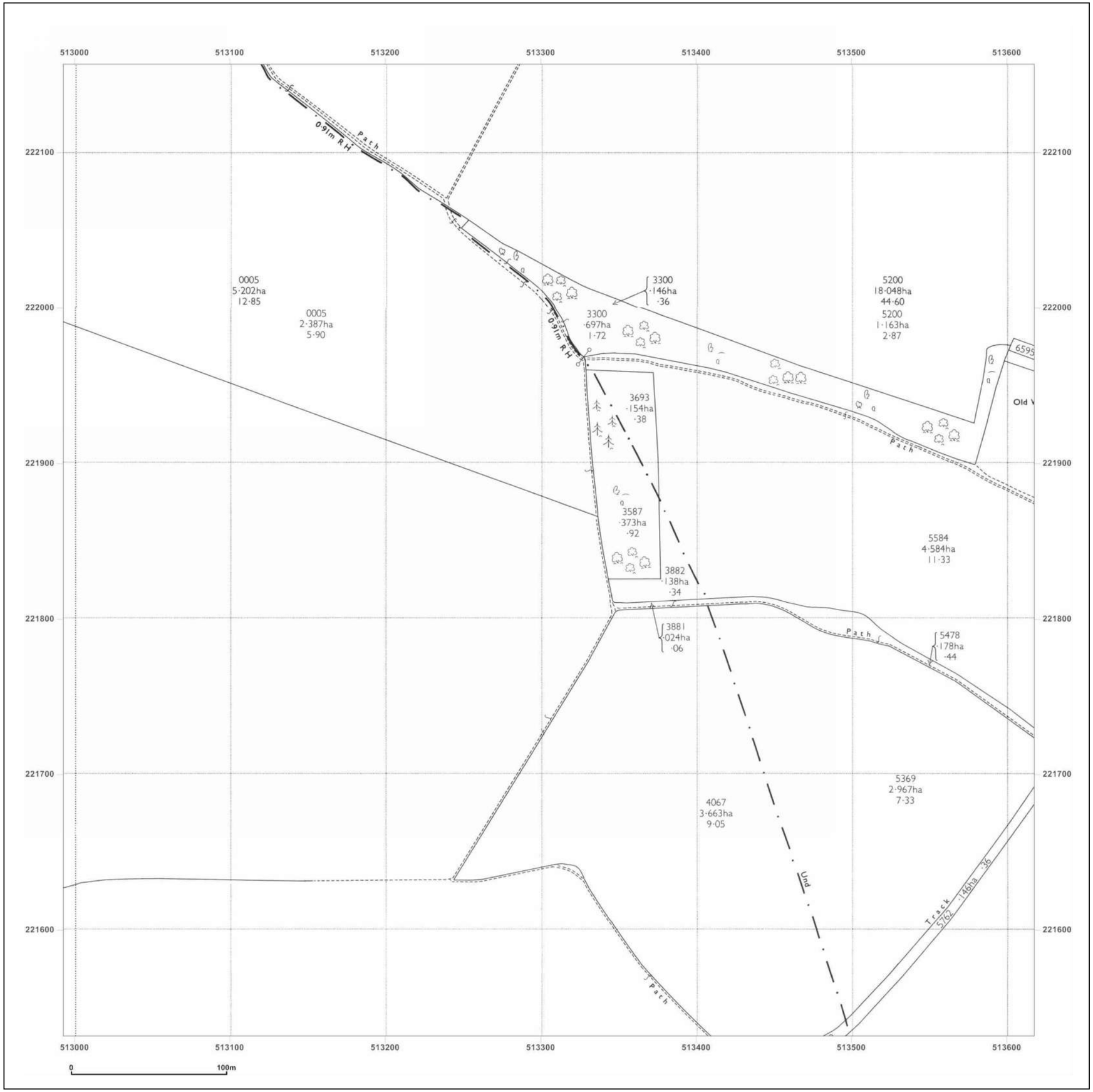

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_2
Grid Ref: 513305, 221844

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
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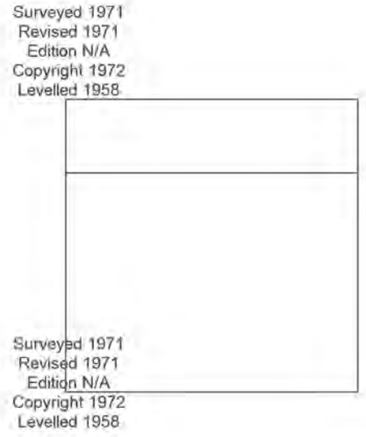

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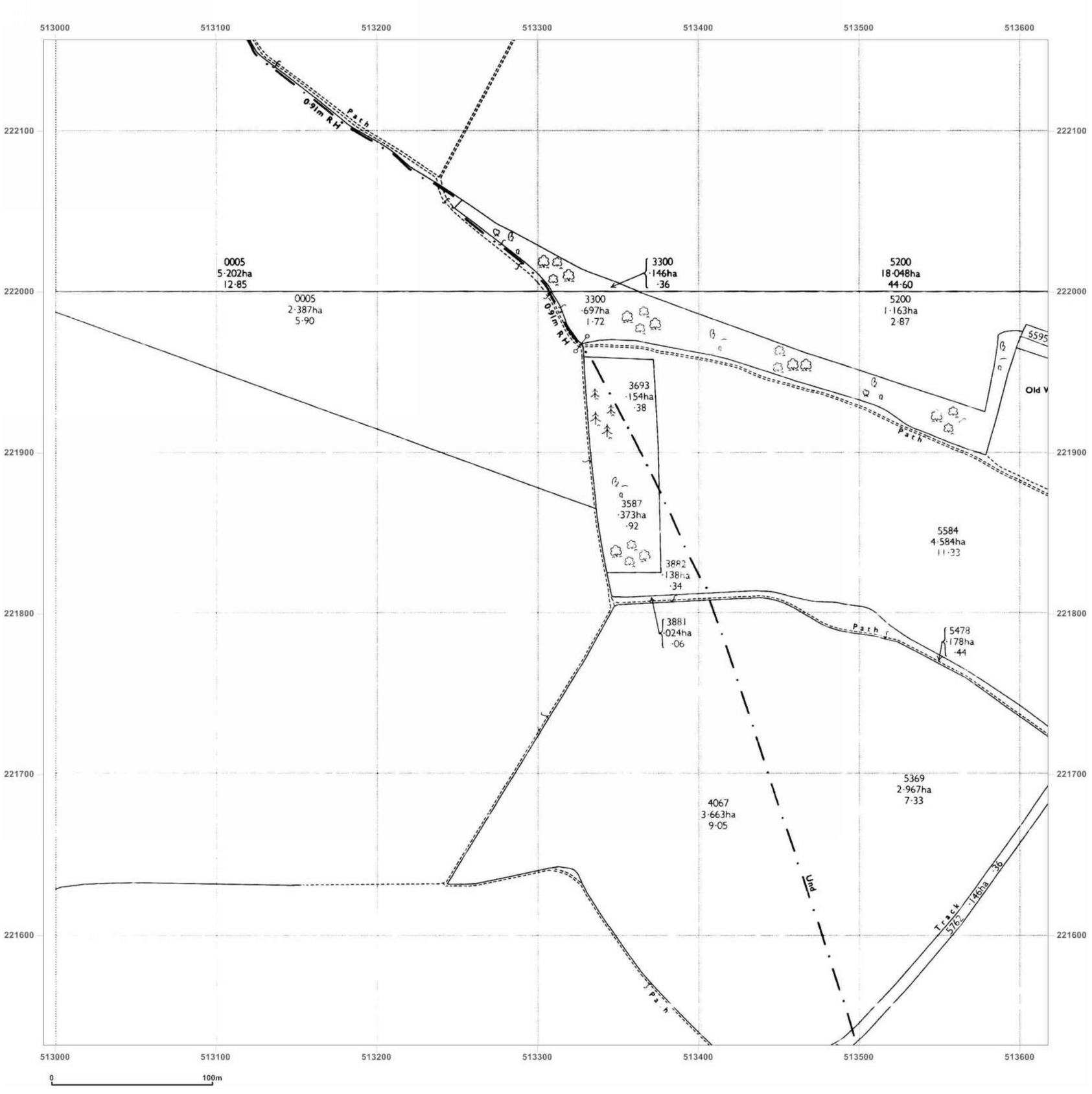

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_2
Grid Ref: 513305, 221844

Map Name: National Grid

Map date: **1972**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copynght N/A
Levelled N/A

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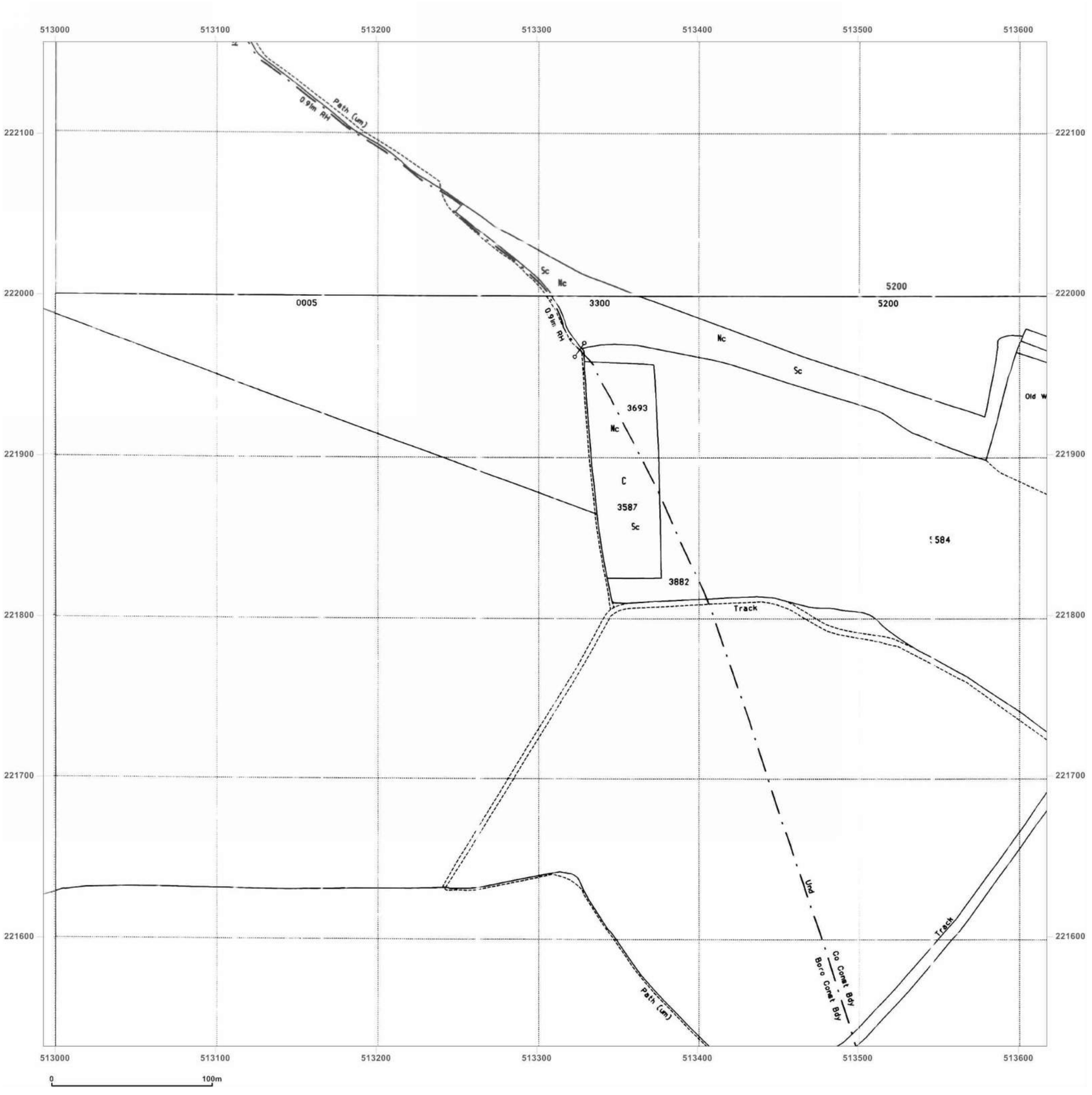

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_2
Grid Ref: 513305, 221844

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised 1992
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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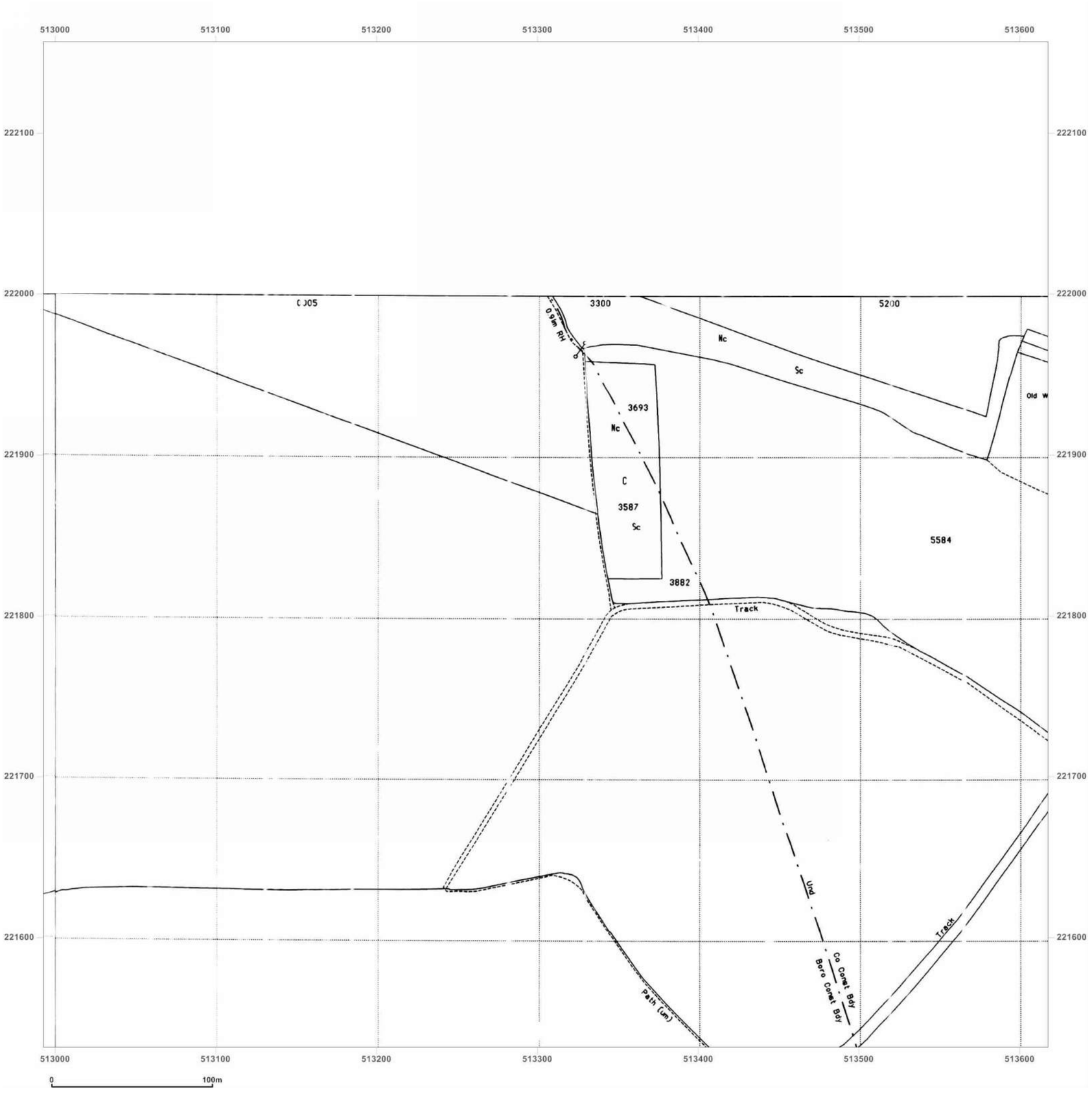


Groundsure INSIGHTS

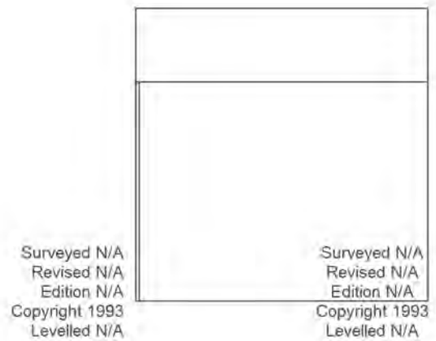
Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_2
Grid Ref: 513305, 221844

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



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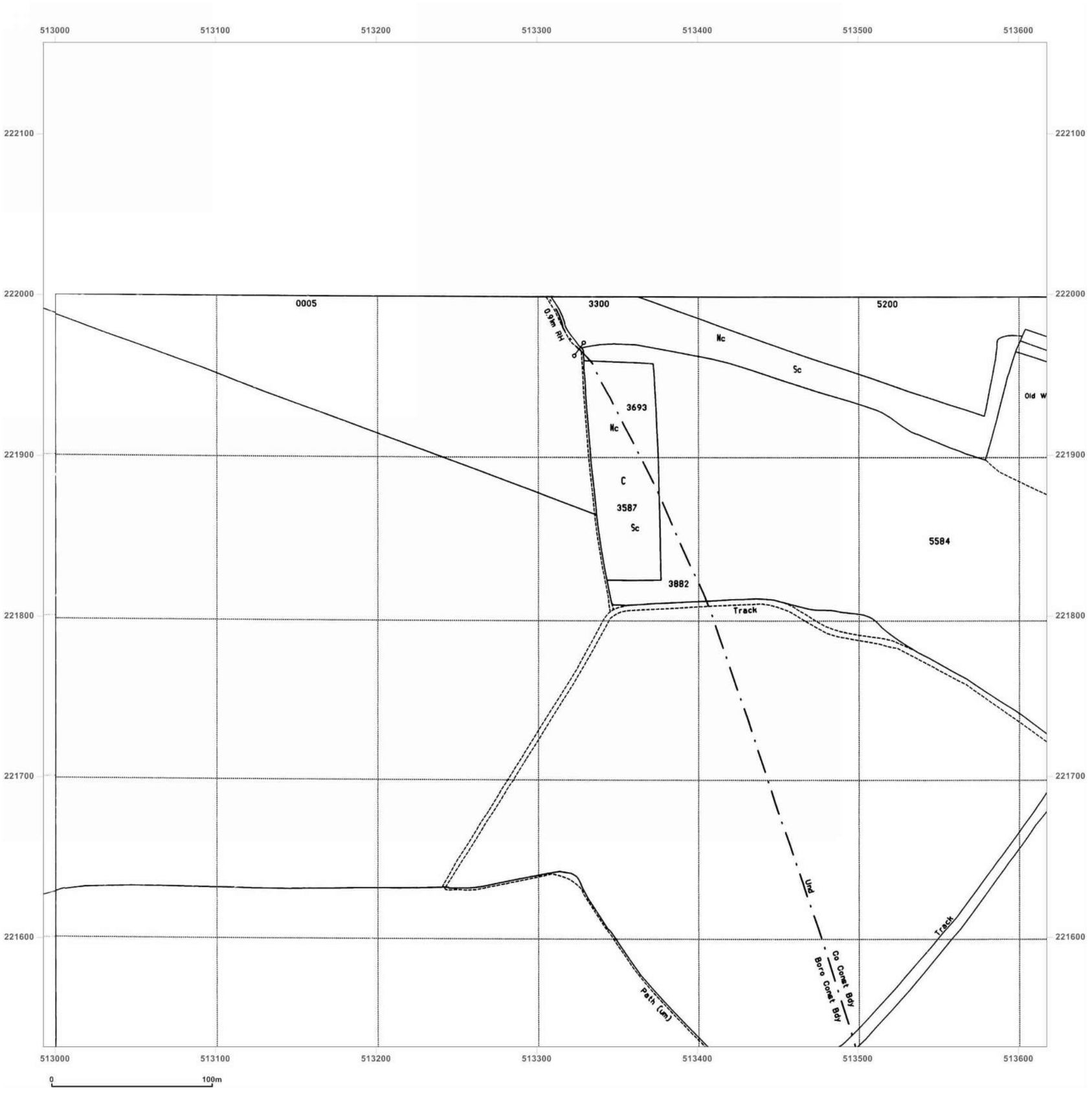


Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_2
Grid Ref: 513305, 221844

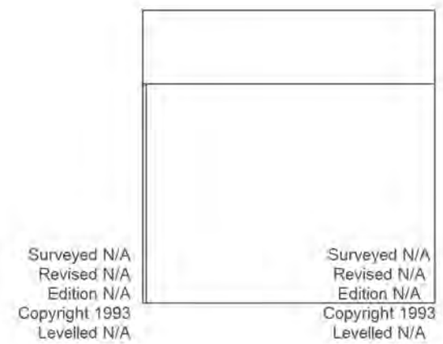
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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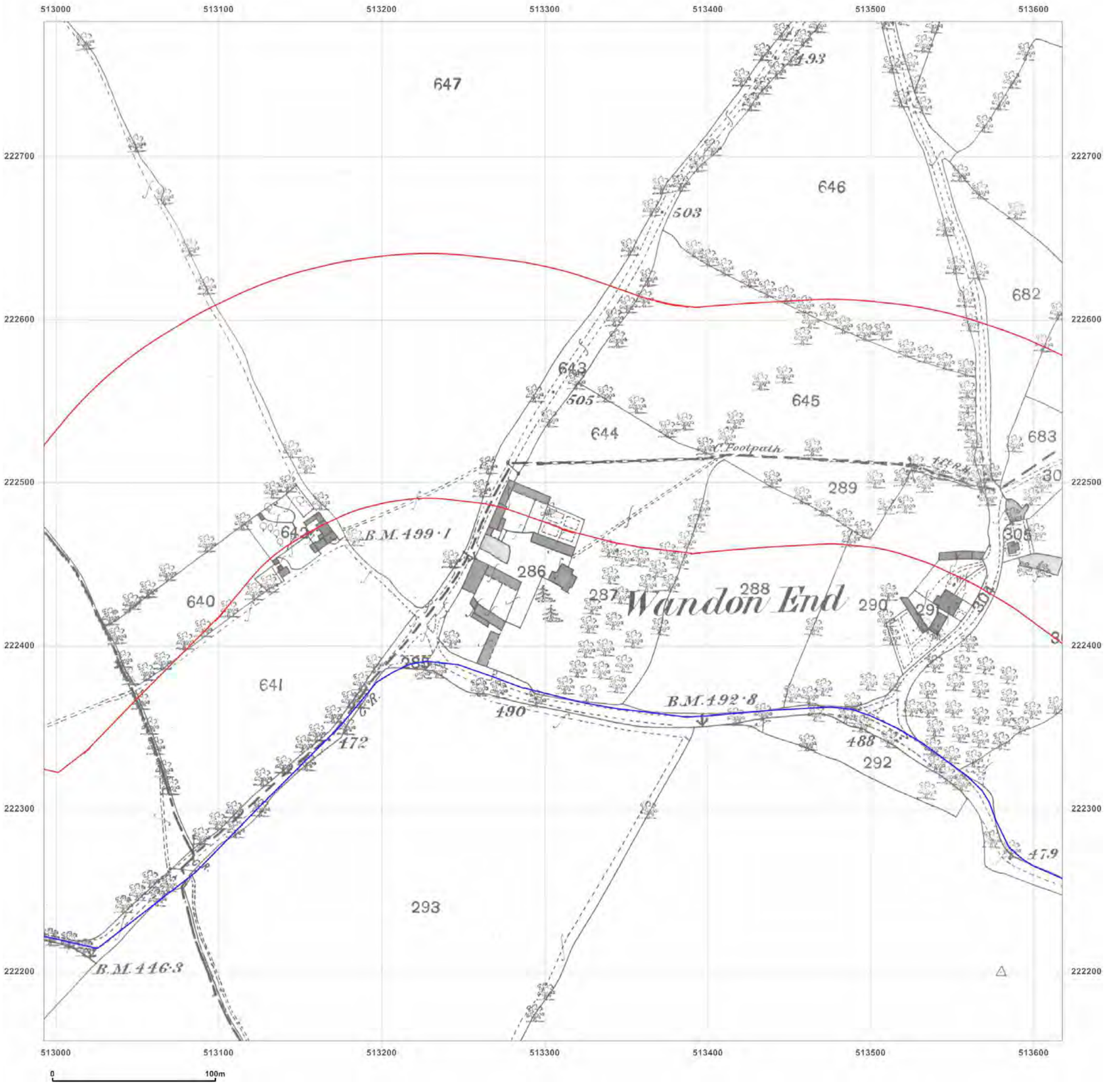

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_3
Grid Ref: 513305, 222470

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

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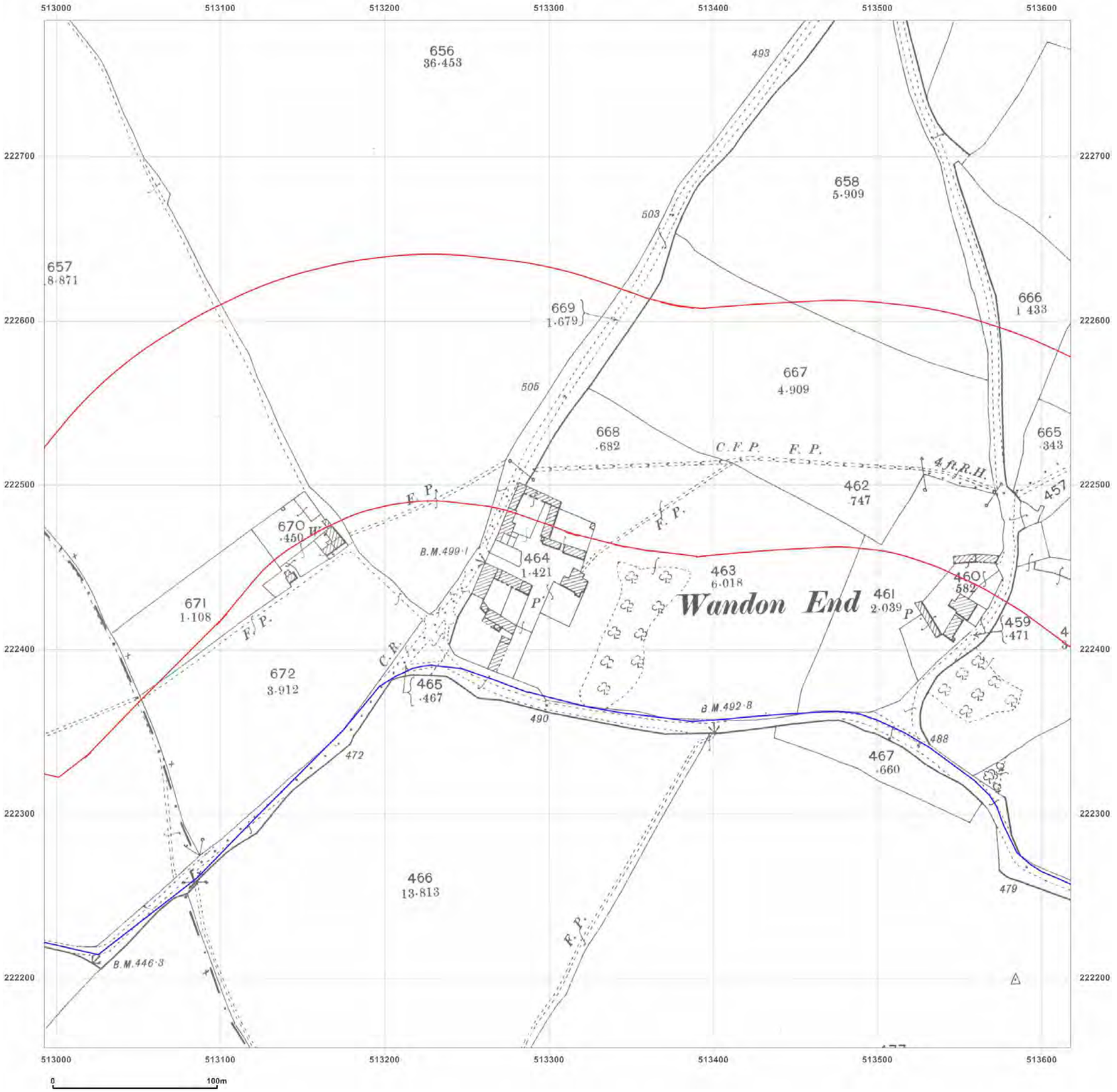

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_3
Grid Ref: 513305, 222470

Map Name: County Series
Map date: **1898**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

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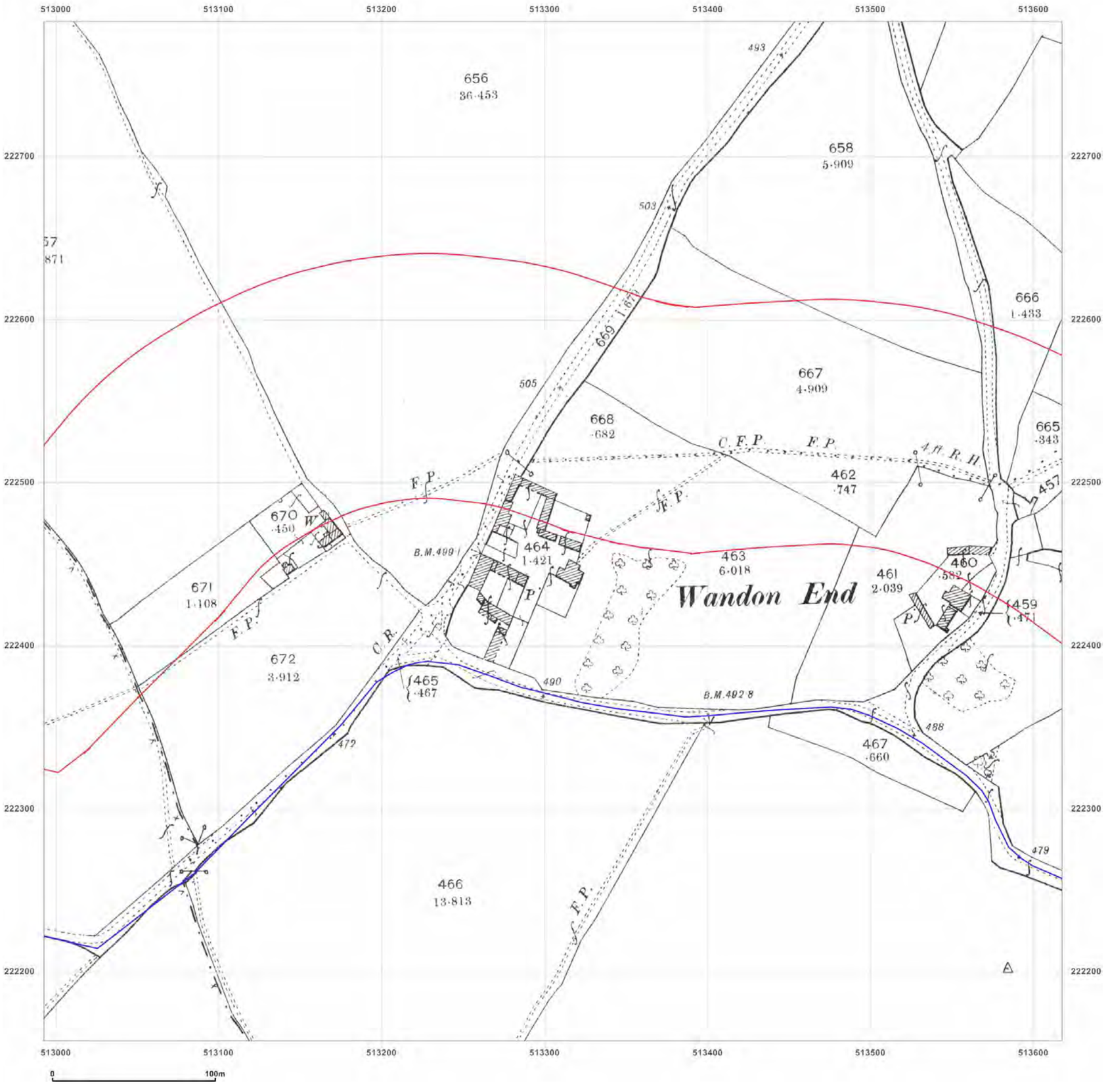

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_3
Grid Ref: 513305, 222470

Map Name: County Series
Map date: **1901**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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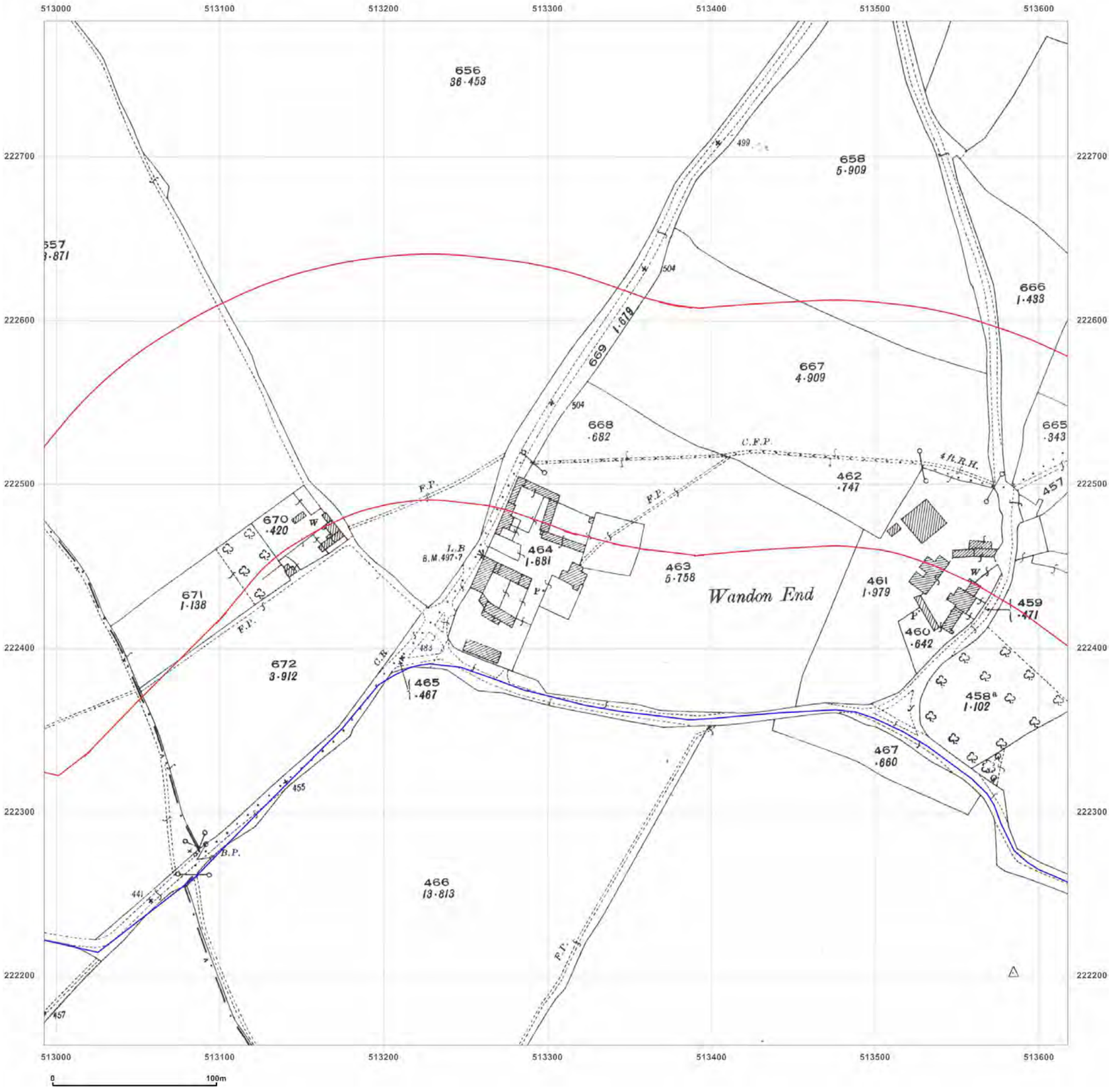

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_3
Grid Ref: 513305, 222470

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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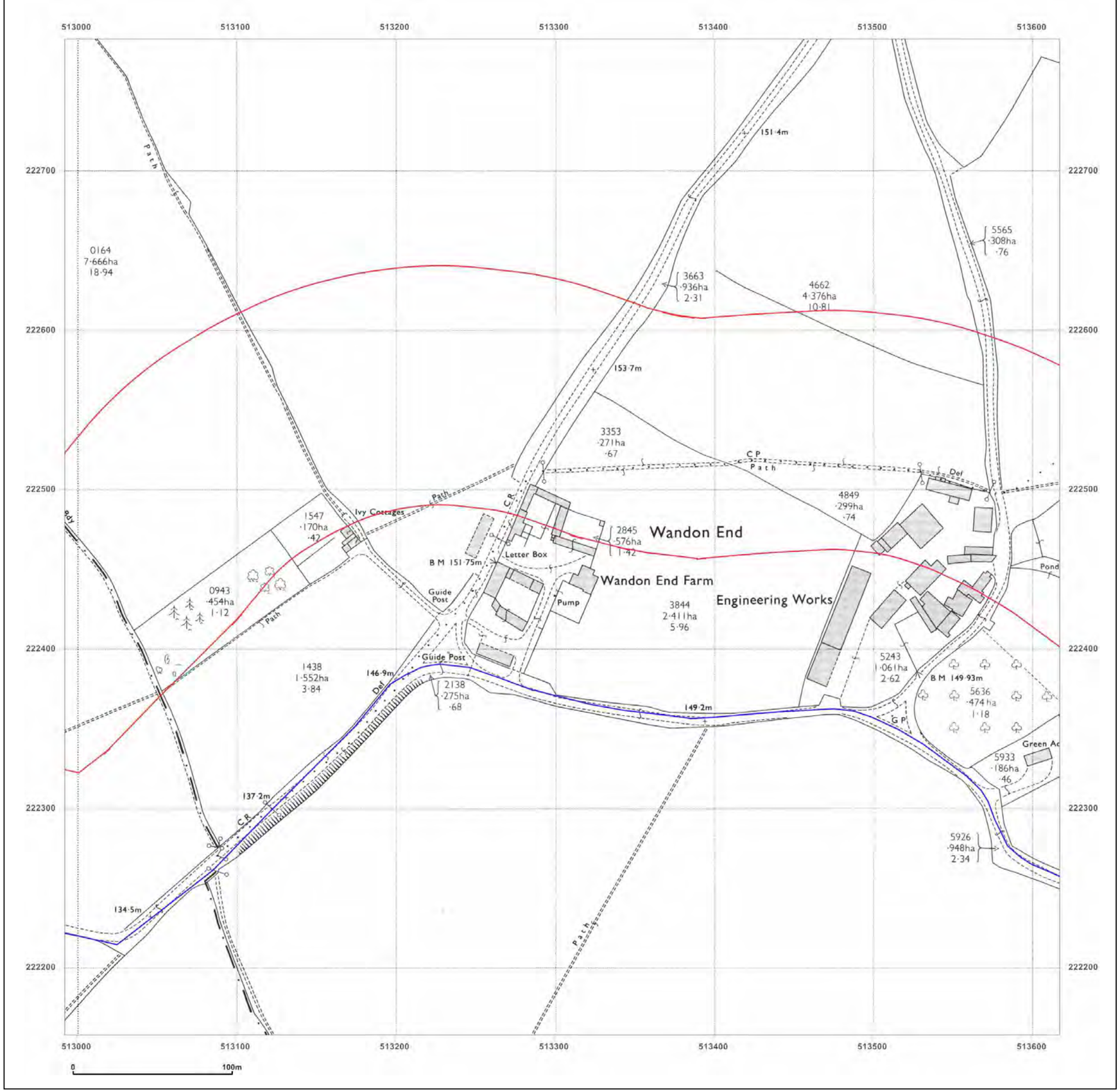

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_3
Grid Ref: 513305, 222470

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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Production date: 16 October 2018

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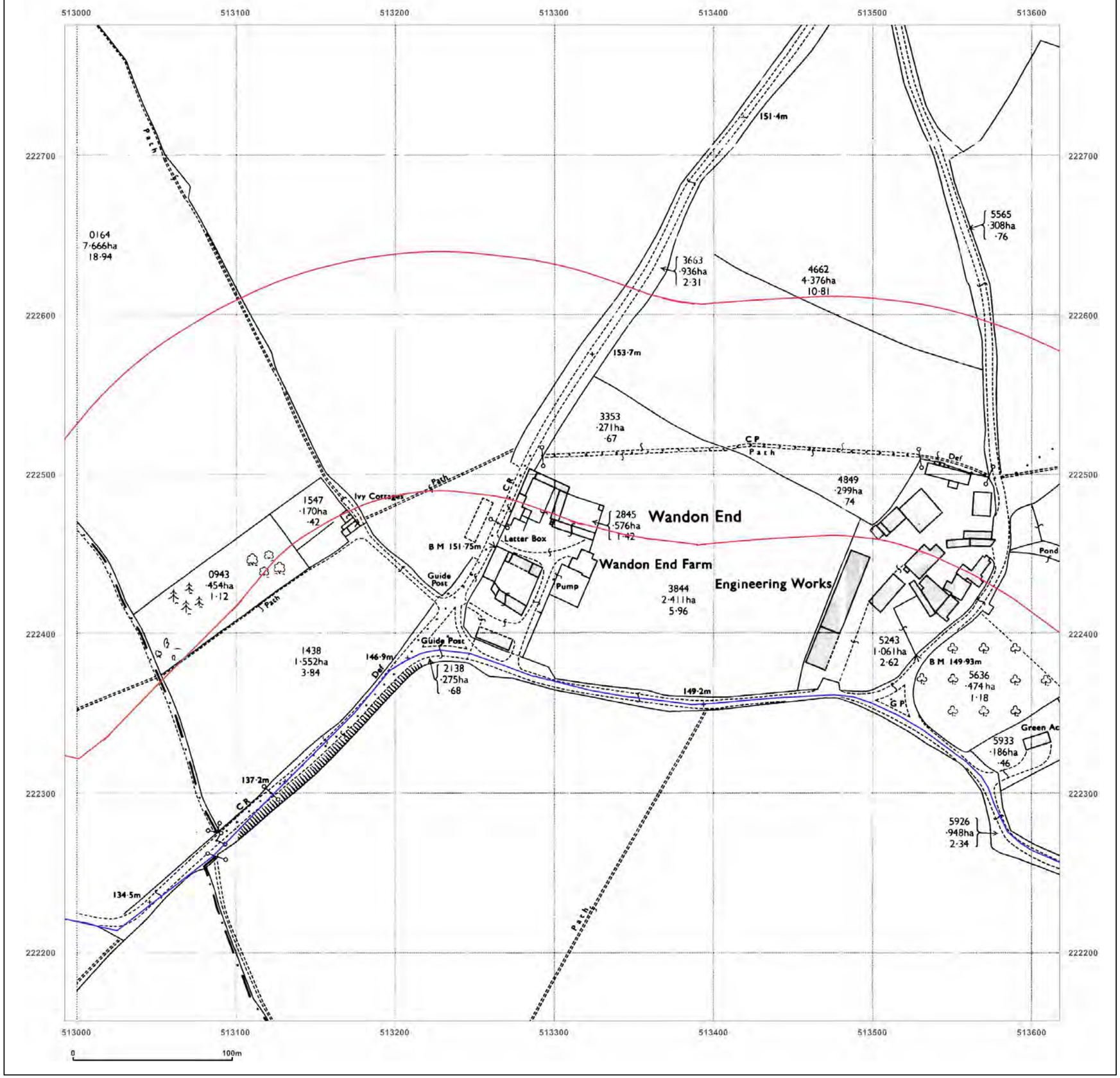

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_3
Grid Ref: 513305, 222470

Map Name: National Grid

Map date: **1972**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

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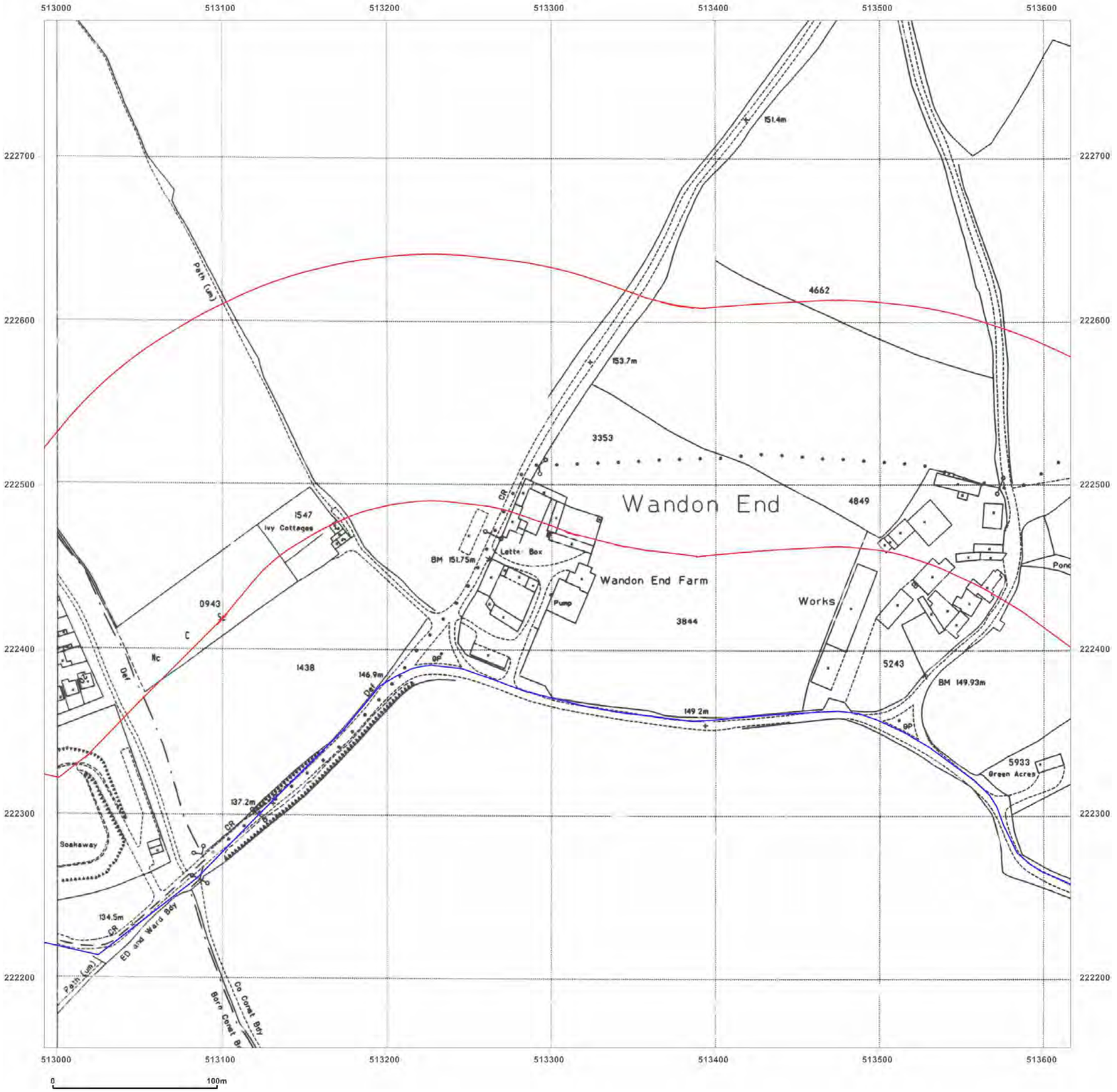

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_3_3
Grid Ref: 513305, 222470

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised 1992
Edition N/A
Copyright 1993
Levelled N/A

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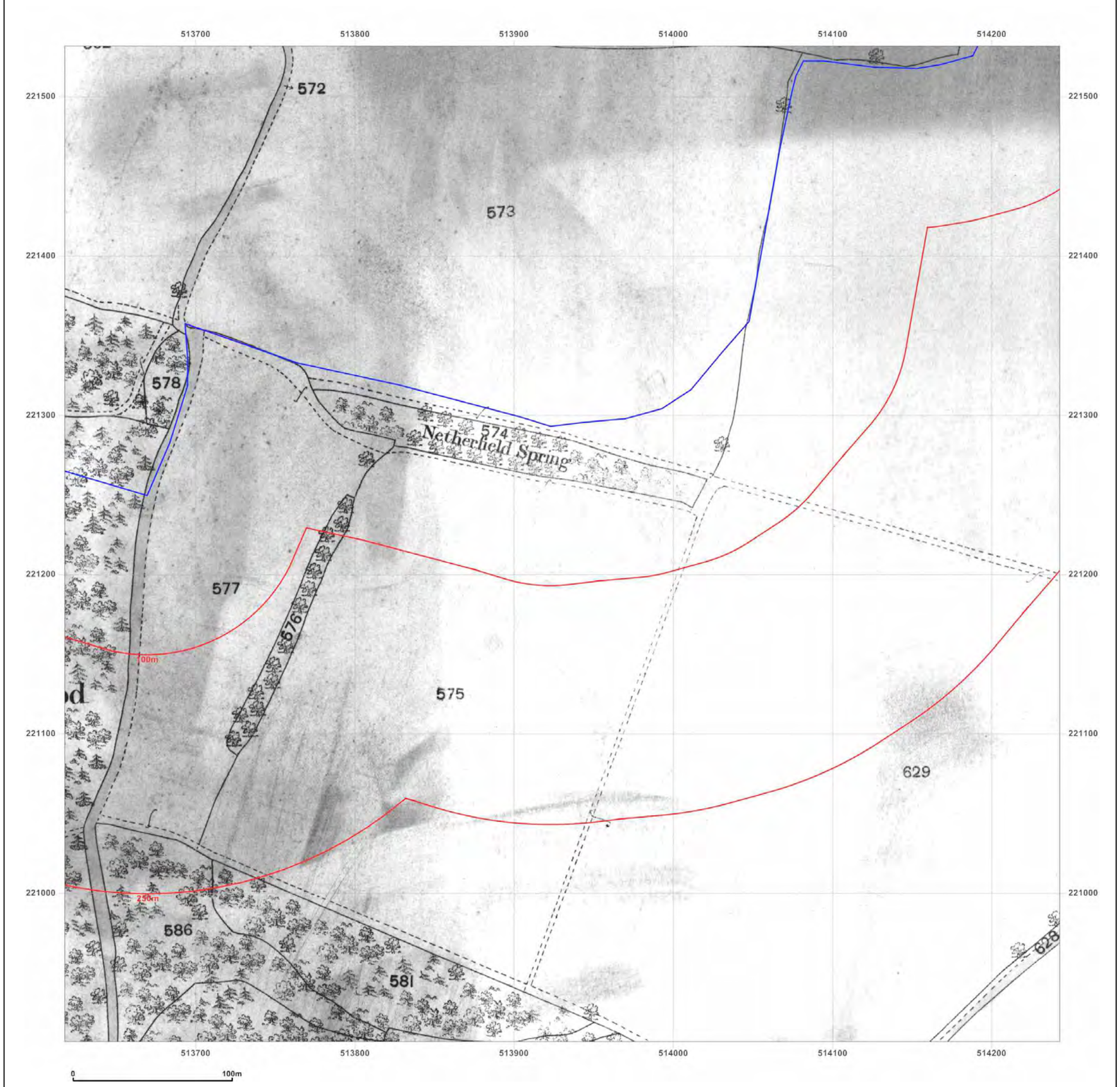

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_1
Grid Ref: 513930, 221219

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
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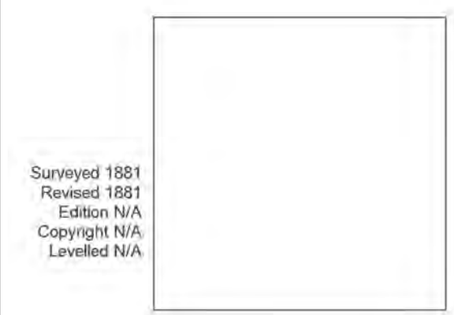

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Production date: 16 October 2018

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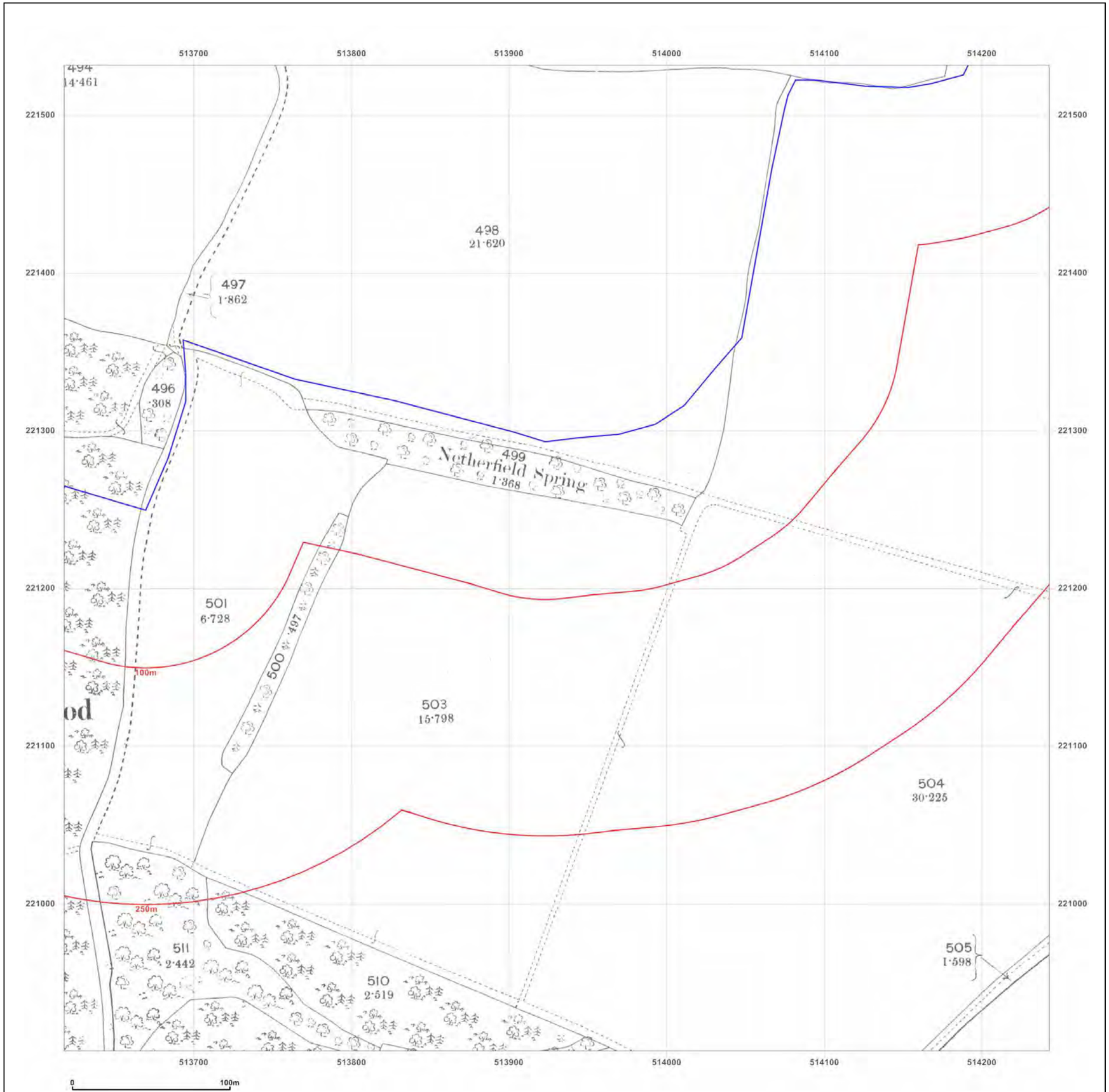

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_1
Grid Ref: 513930, 221219

Map Name: County Series
Map date: **1898**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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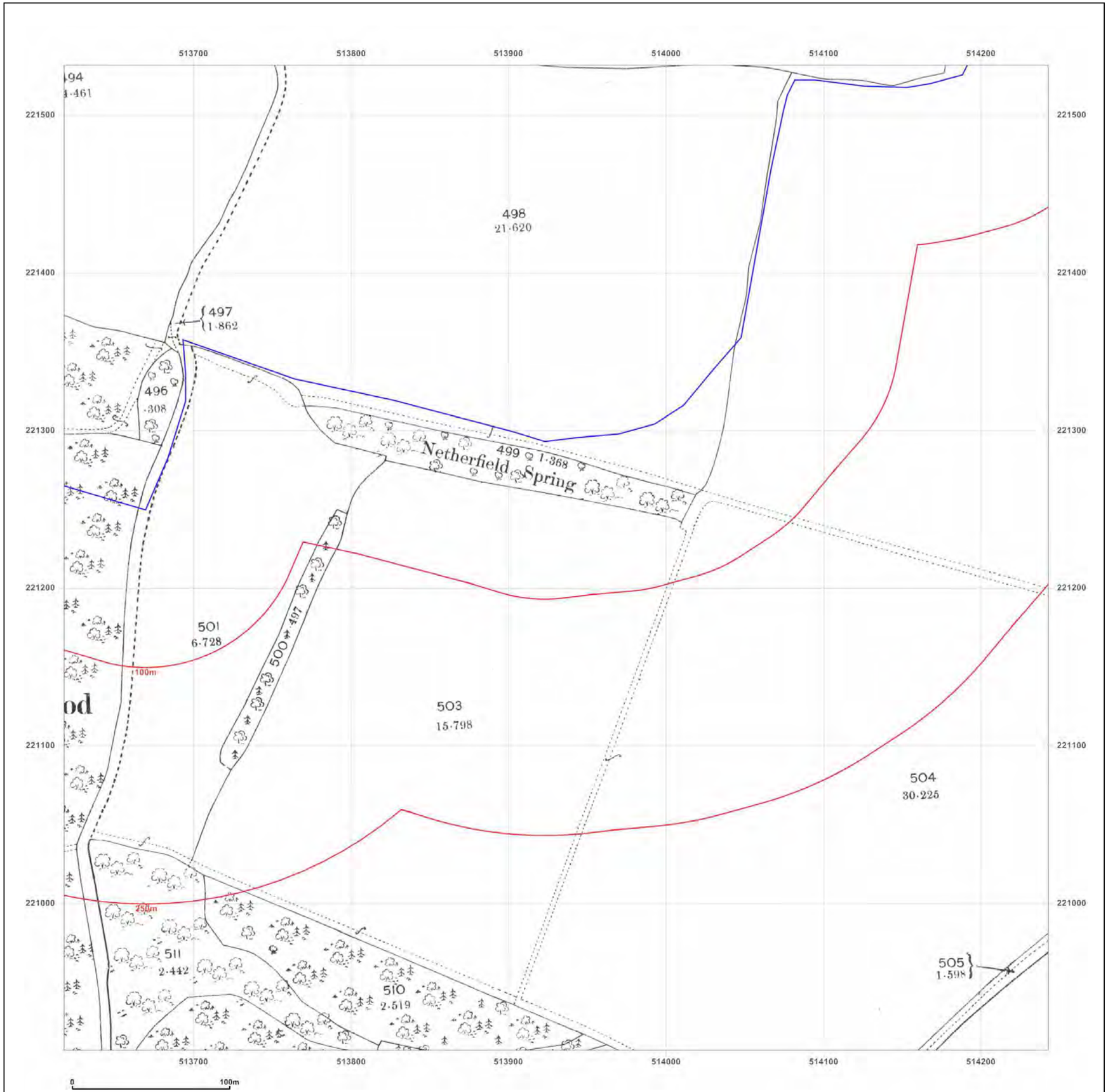

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_1
Grid Ref: 513930, 221219

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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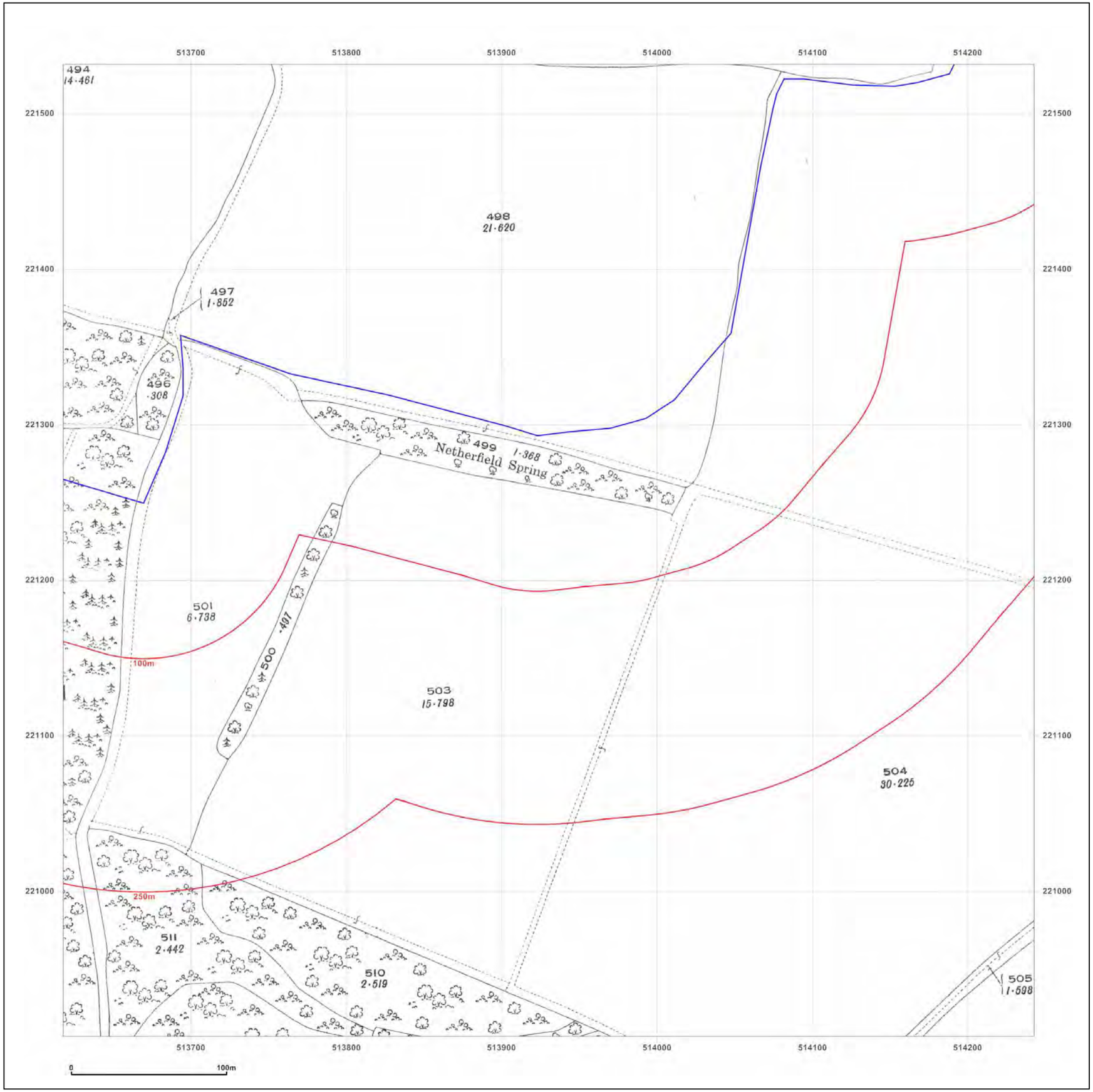

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_1
Grid Ref: 513930, 221219

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_1
Grid Ref: 513930, 221219

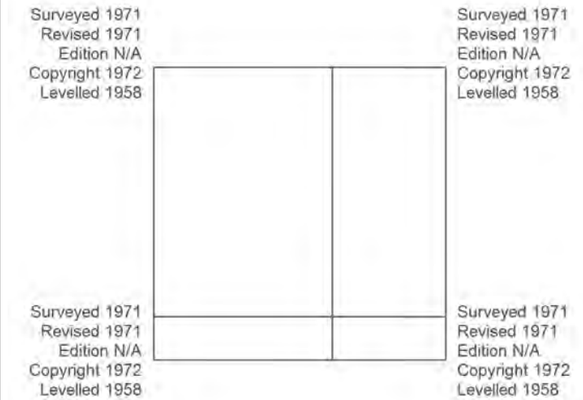
Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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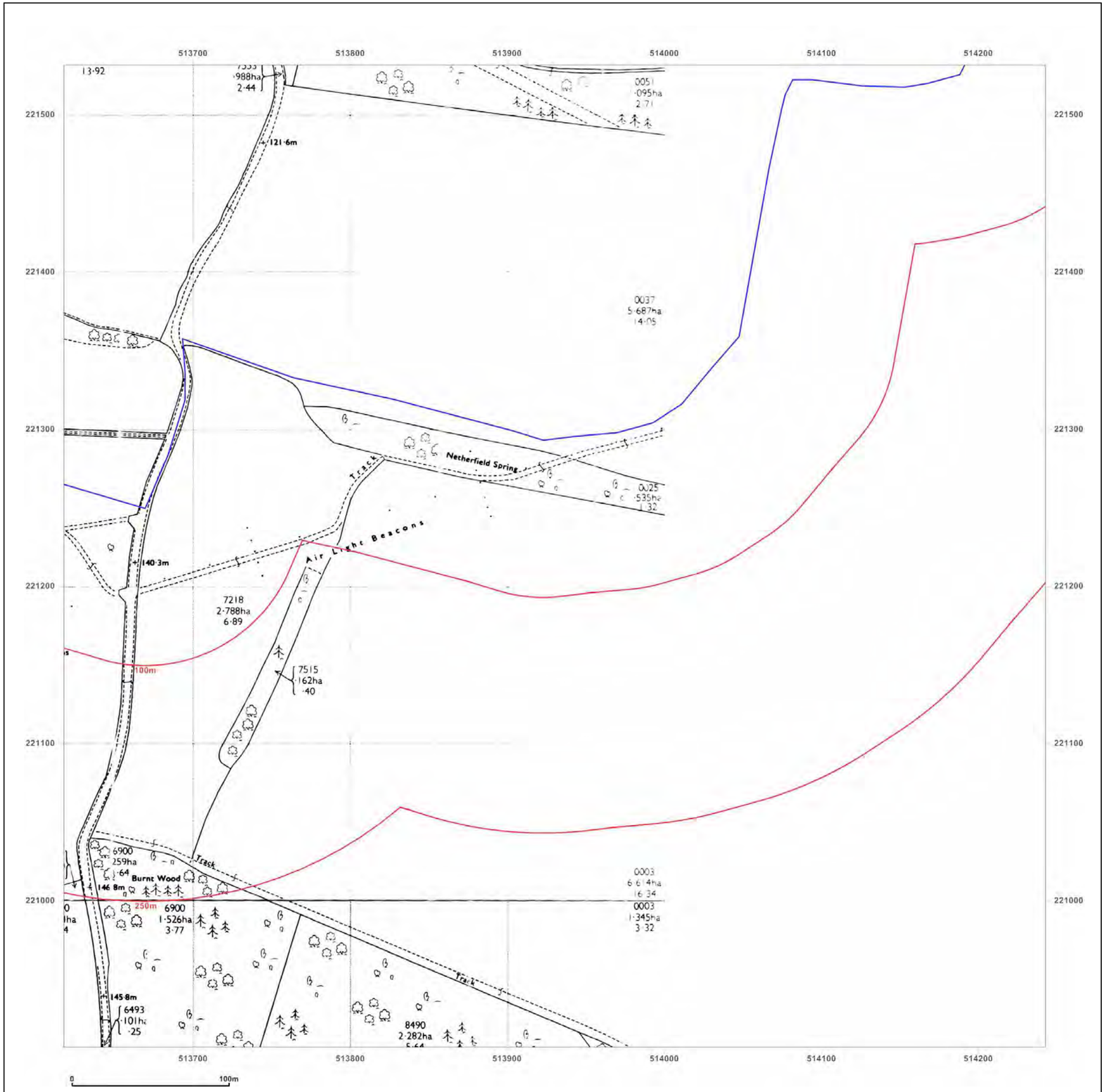

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_1
Grid Ref: 513930, 221219

Map Name: National Grid
Map date: **1972**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

Surveyed N/A
Revised N/A
Edition N/A
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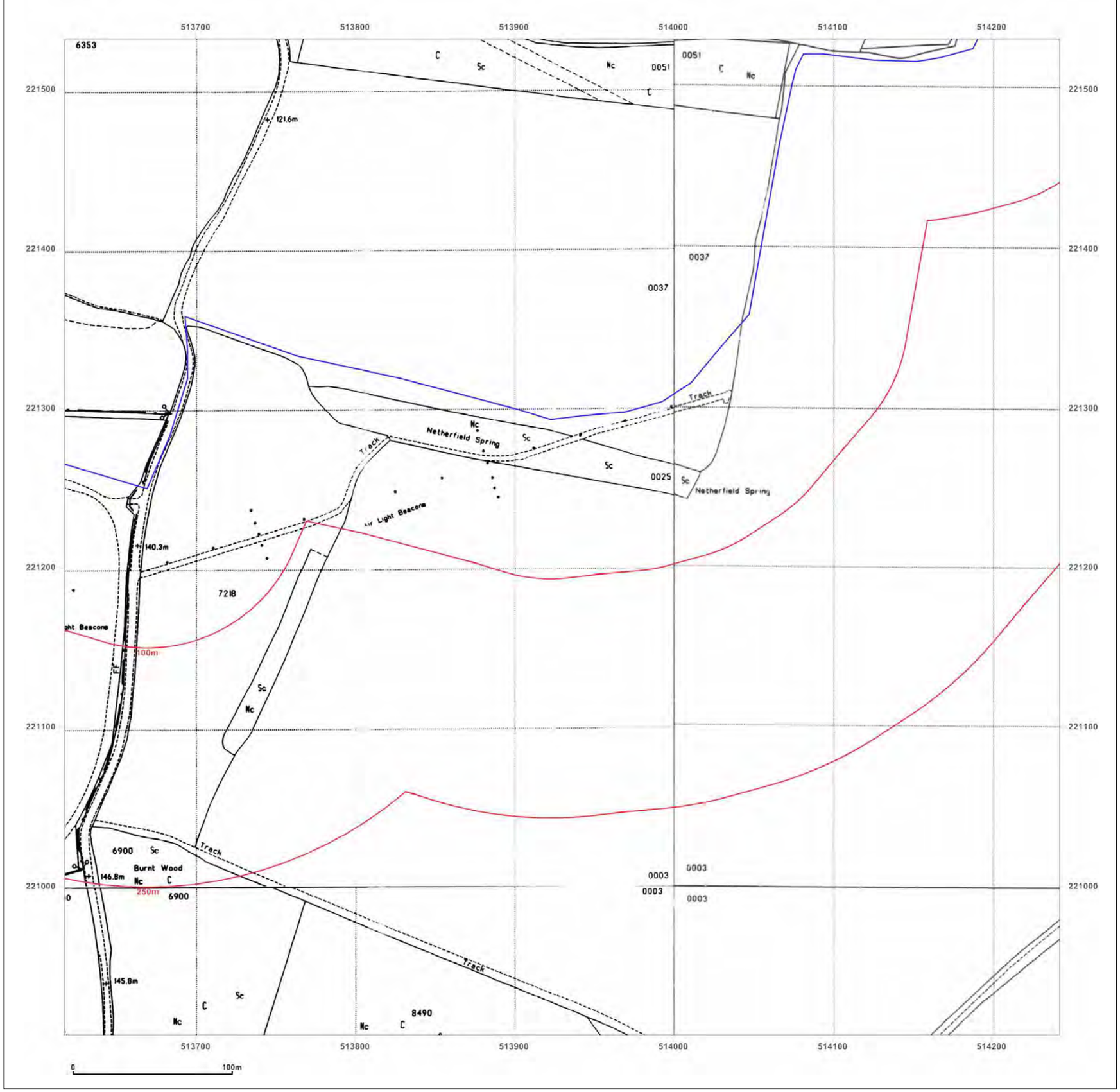

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_1
Grid Ref: 513930, 221219

Map Name: National Grid

Map date: **1992-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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

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

Surveyed N/A
Revised N/A
Edition N/A
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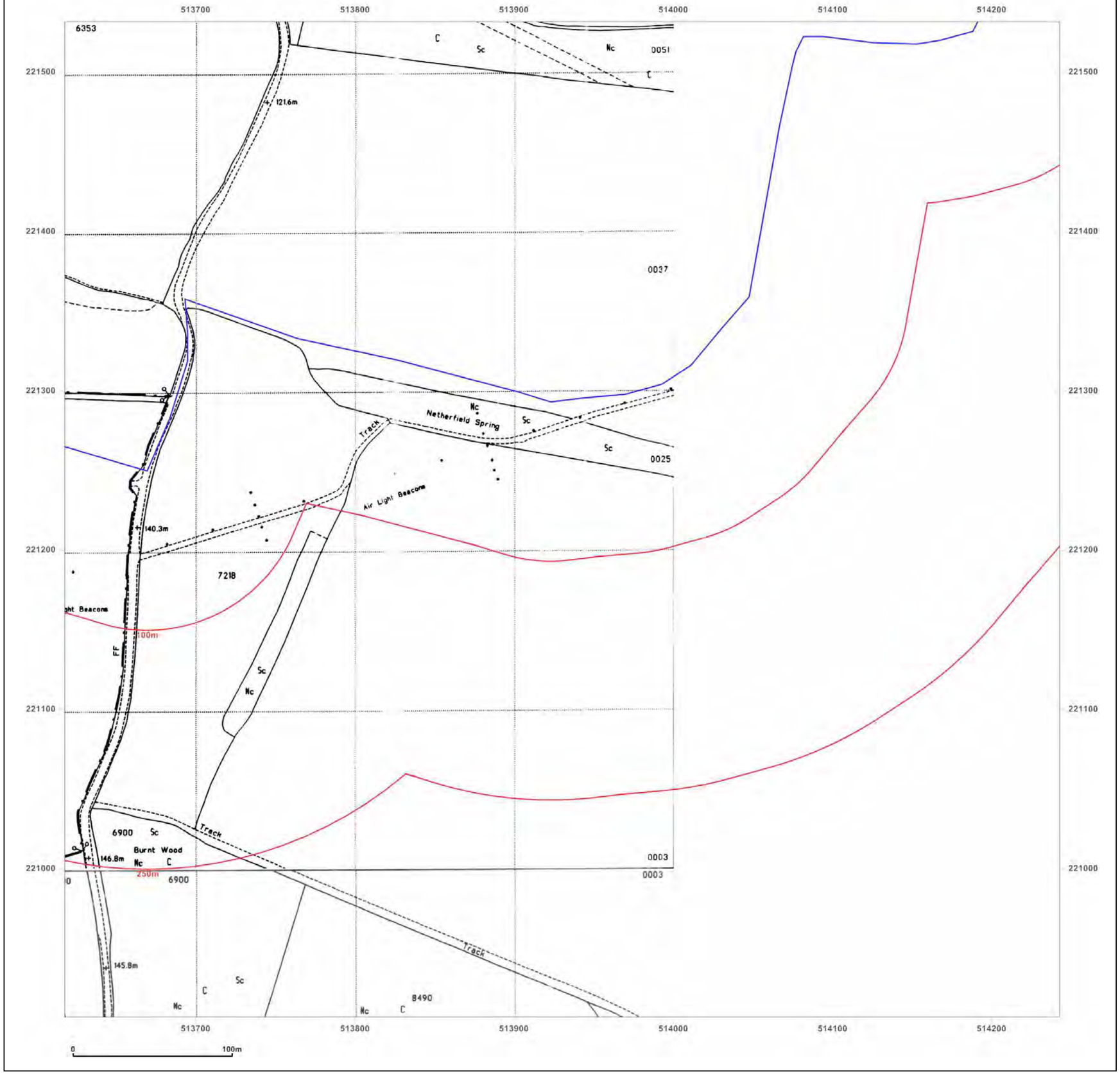

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_1
Grid Ref: 513930, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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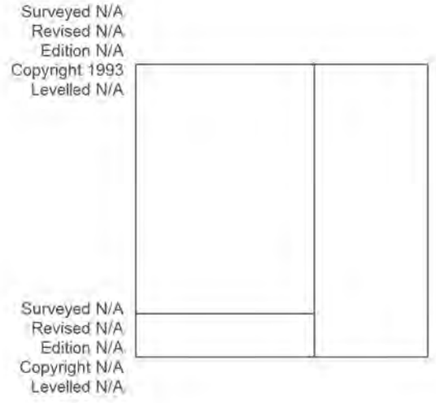

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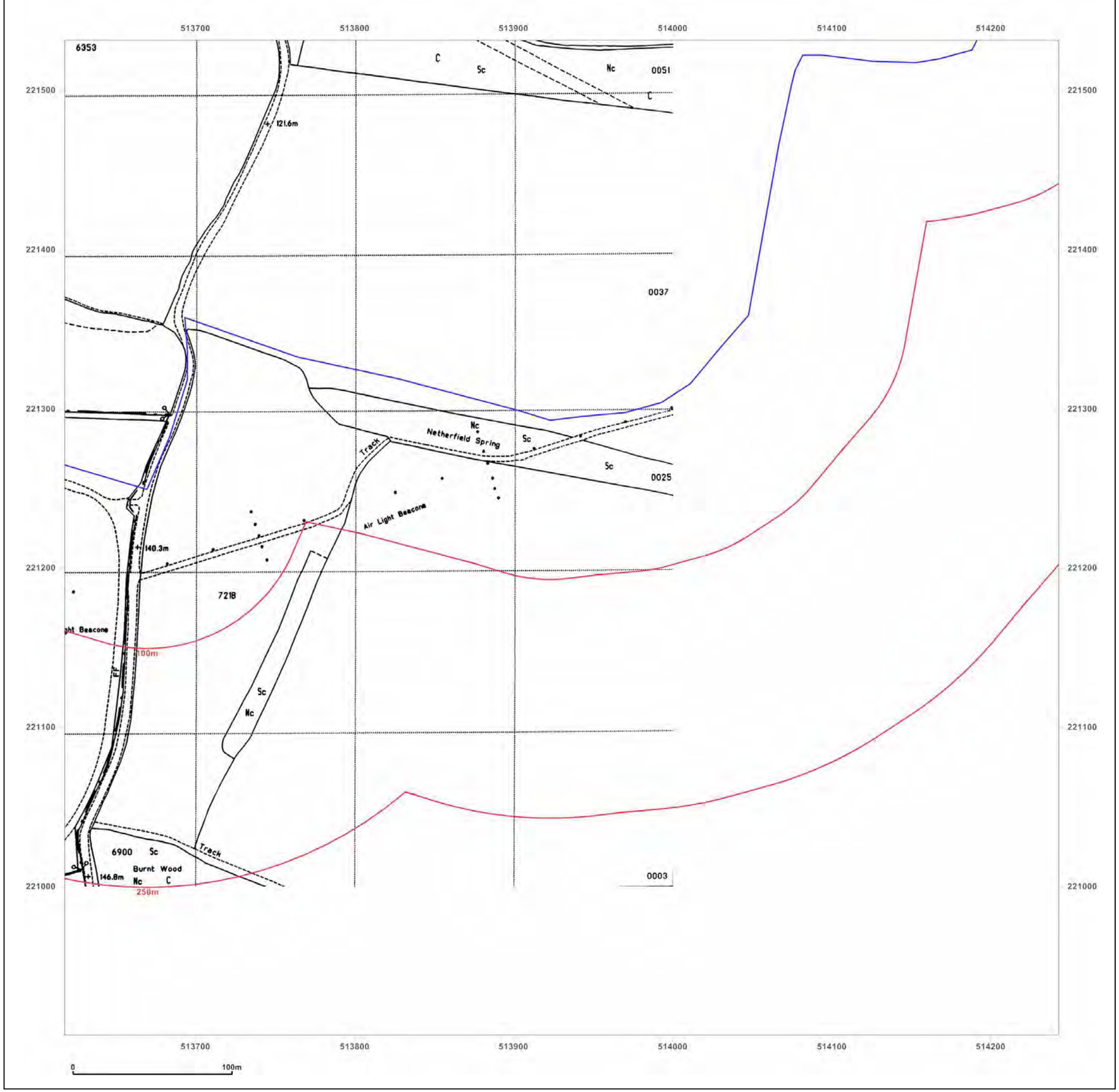

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_1
Grid Ref: 513930, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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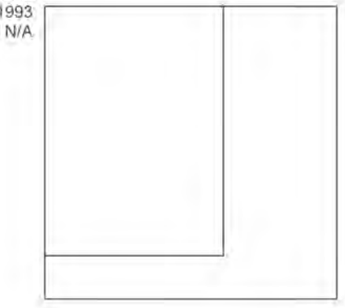
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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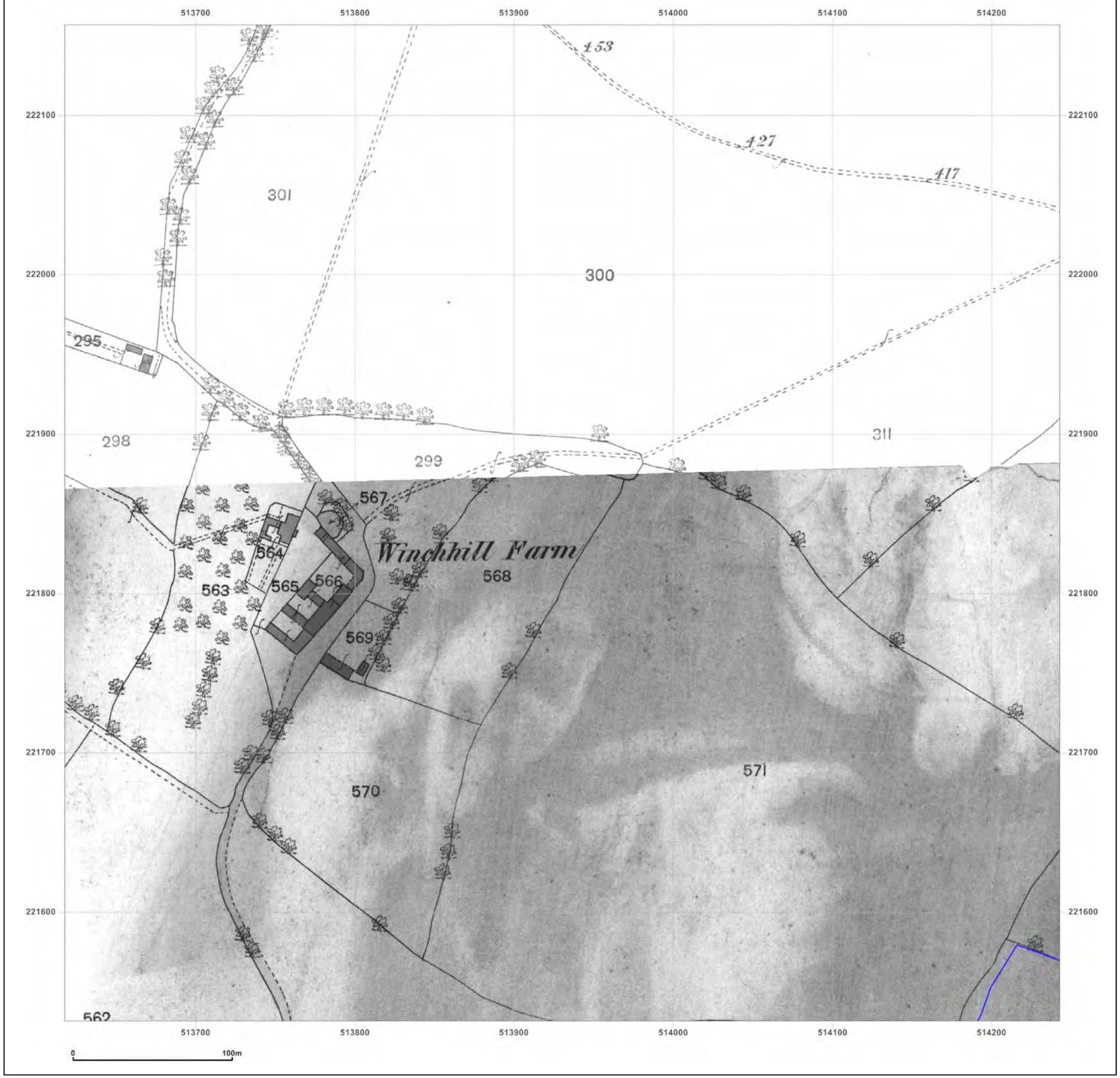

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_2
Grid Ref: 513930, 221844

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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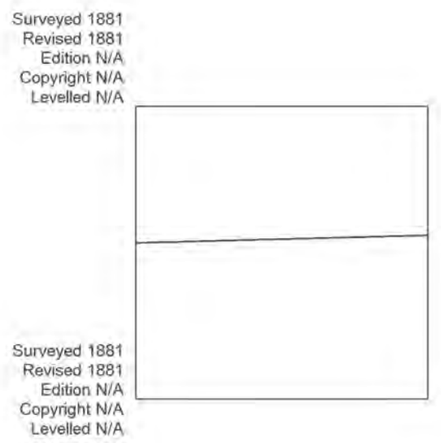

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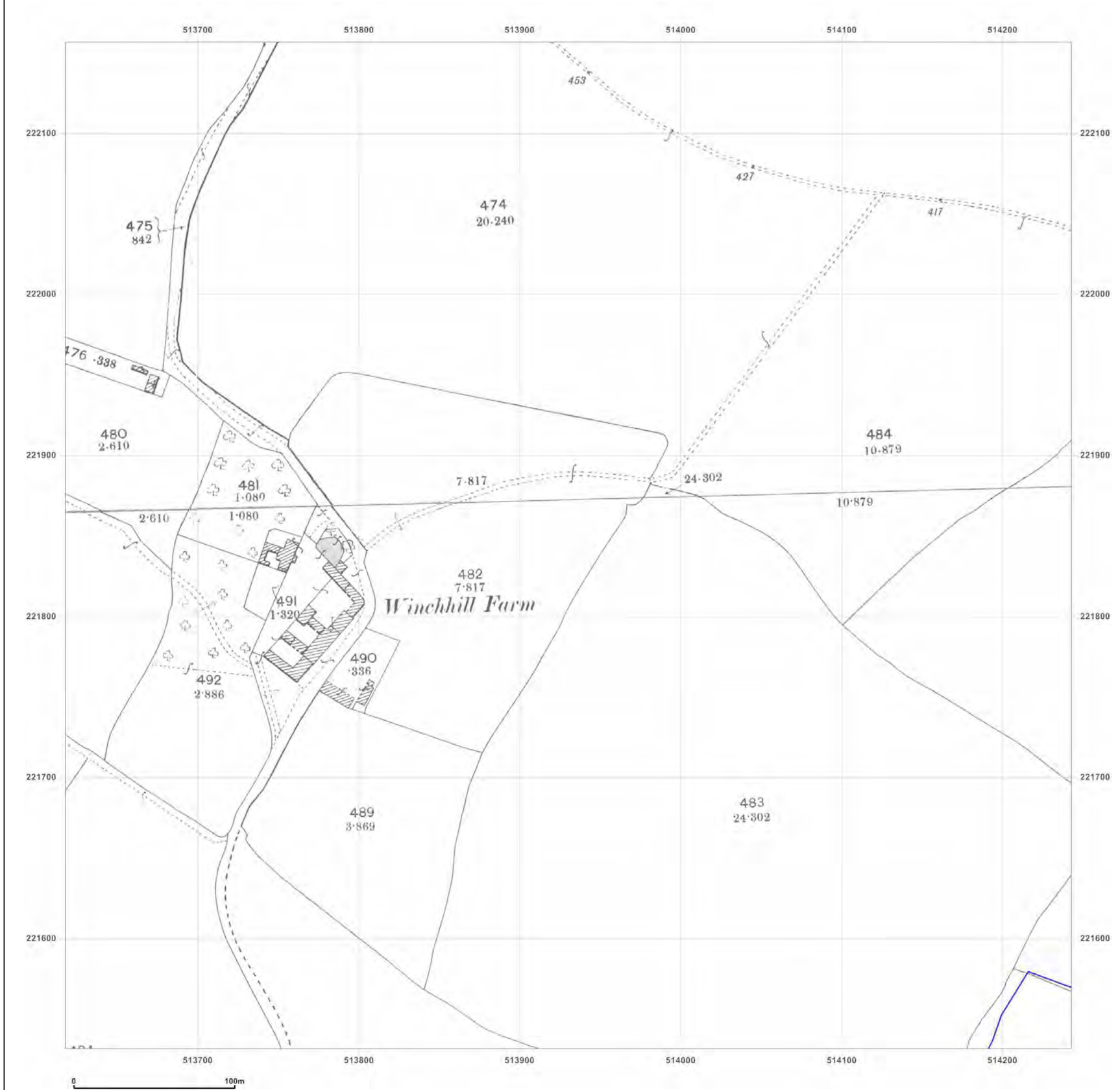

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_2
Grid Ref: 513930, 221844

Map Name: County Series
Map date: **1898**
Scale: 1:2,500
Printed at: 1:2,500

N
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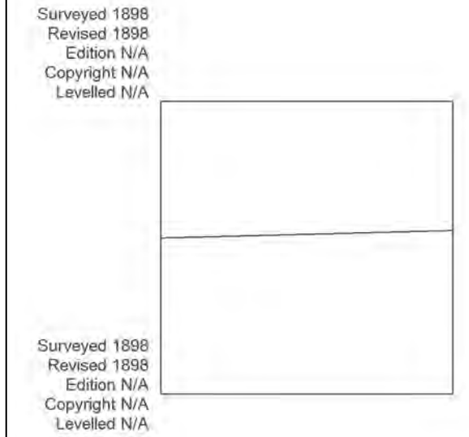

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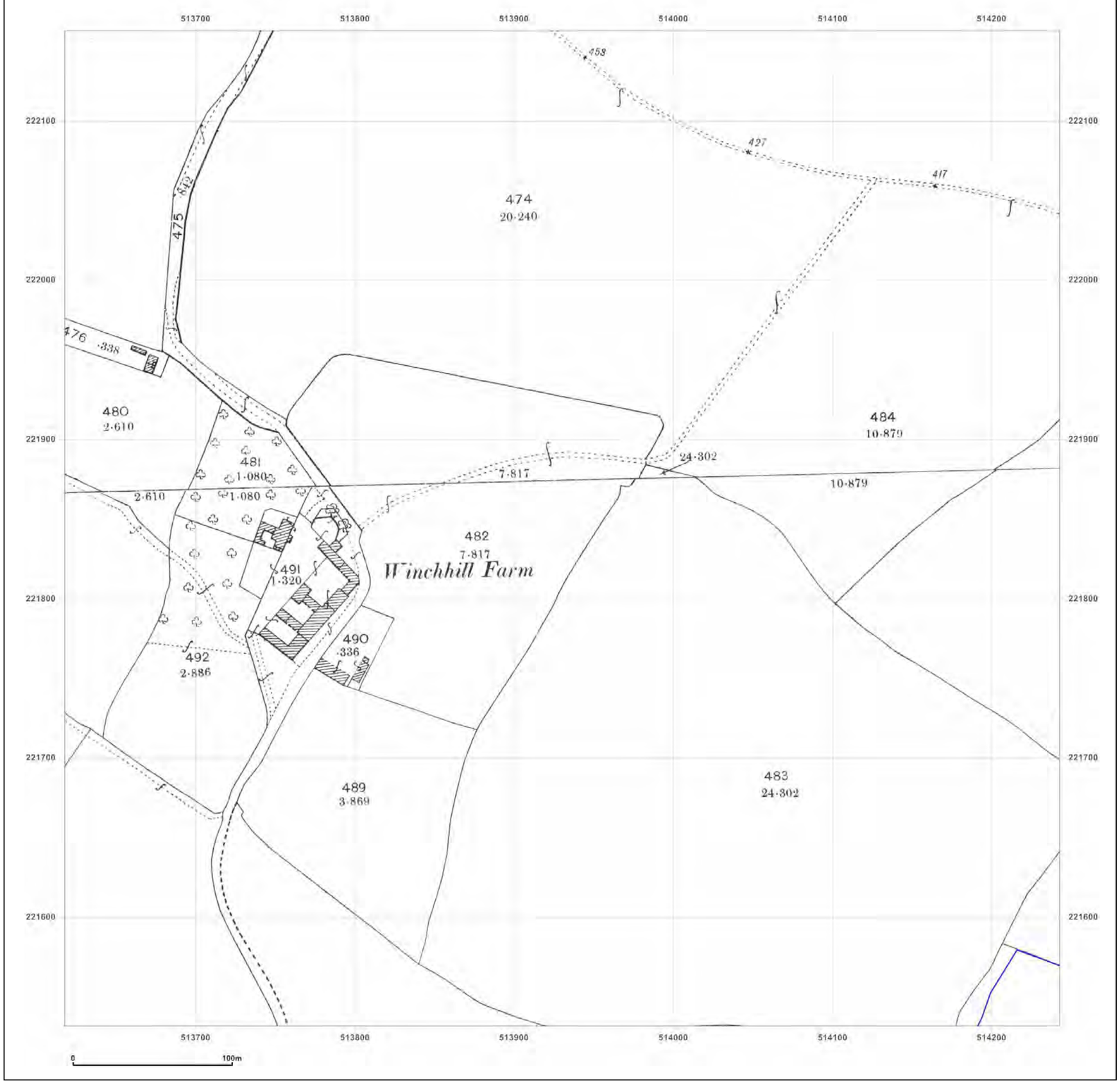

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_2
Grid Ref: 513930, 221844

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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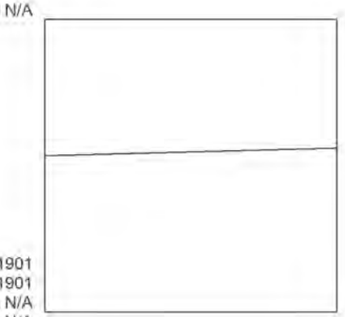
Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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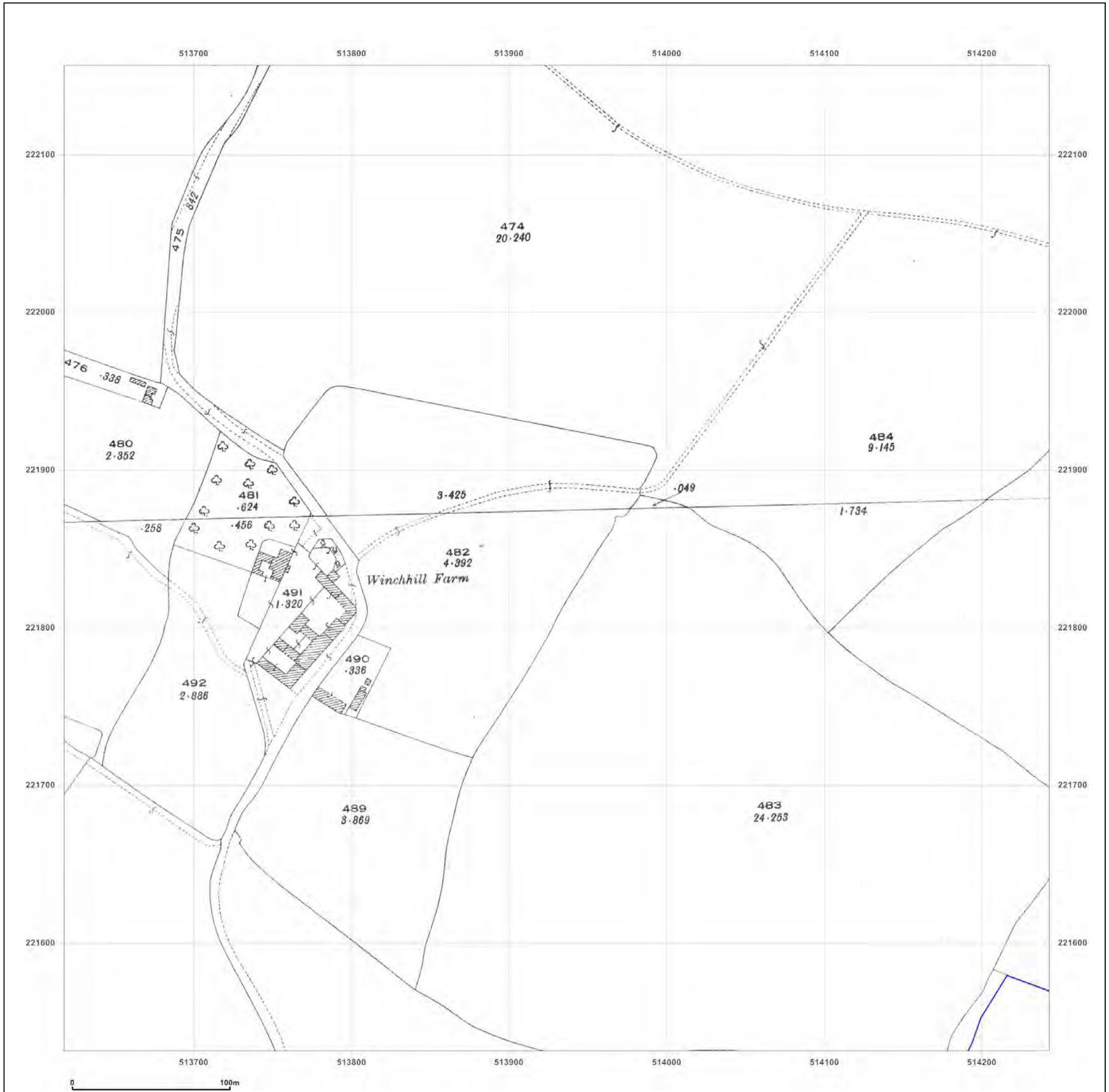

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_2
Grid Ref: 513930, 221844

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
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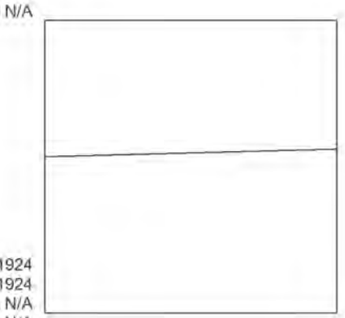
Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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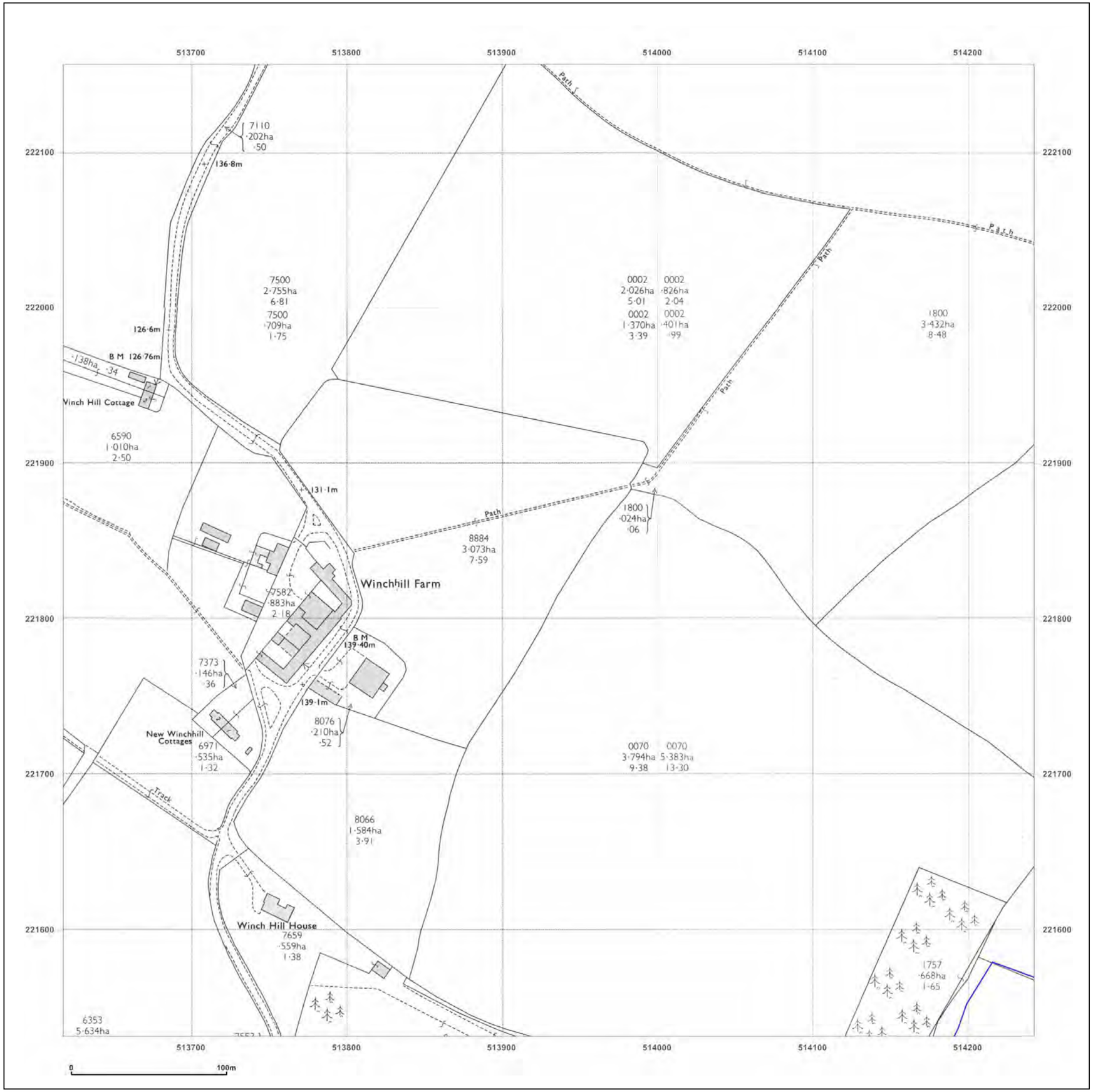

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_2
Grid Ref: 513930, 221844

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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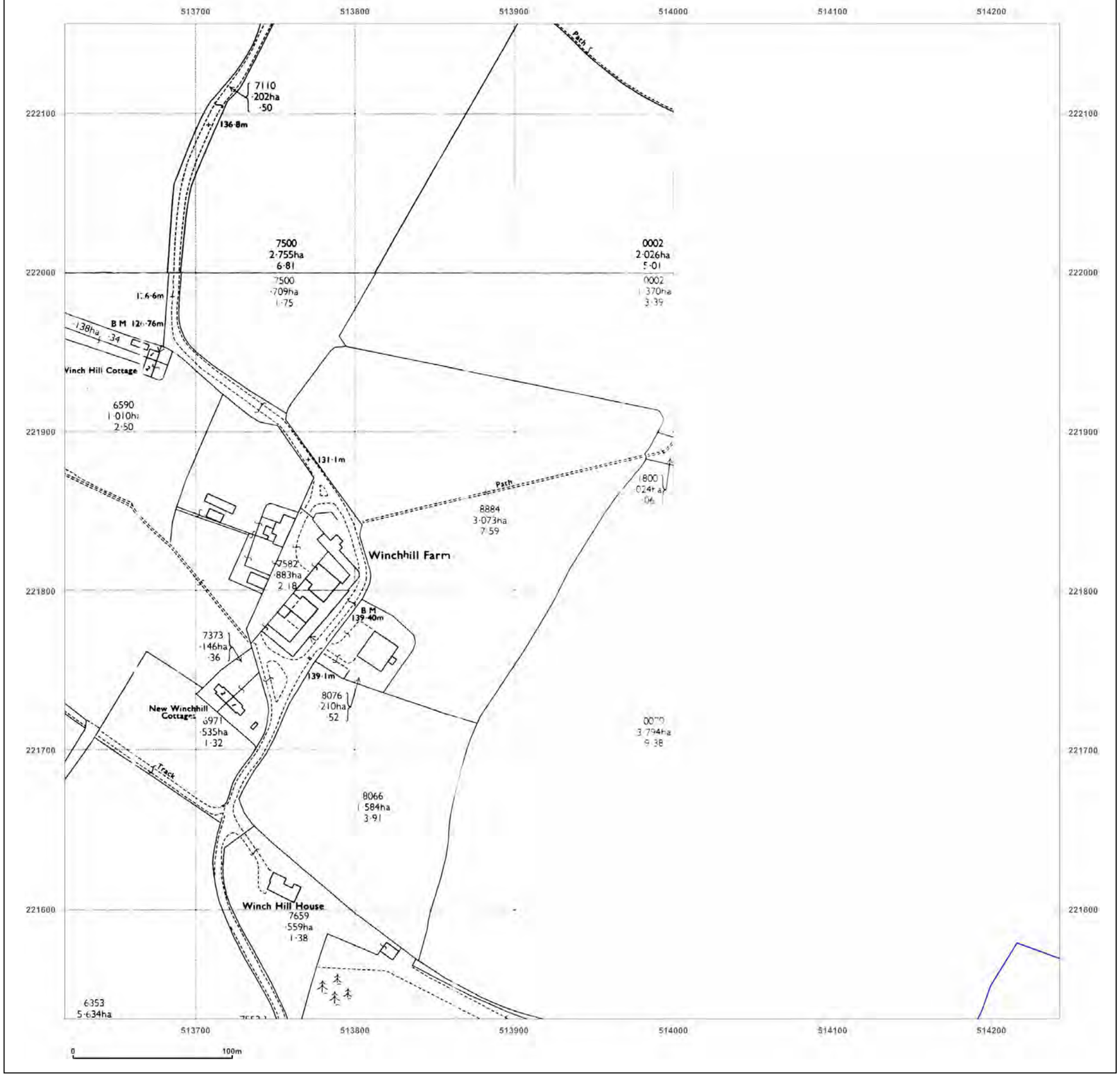

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_2
Grid Ref: 513930, 221844

Map Name: National Grid

Map date: **1972**

Scale: 1:2,500

Printed at: 1:2,500

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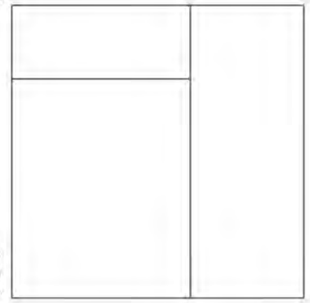
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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

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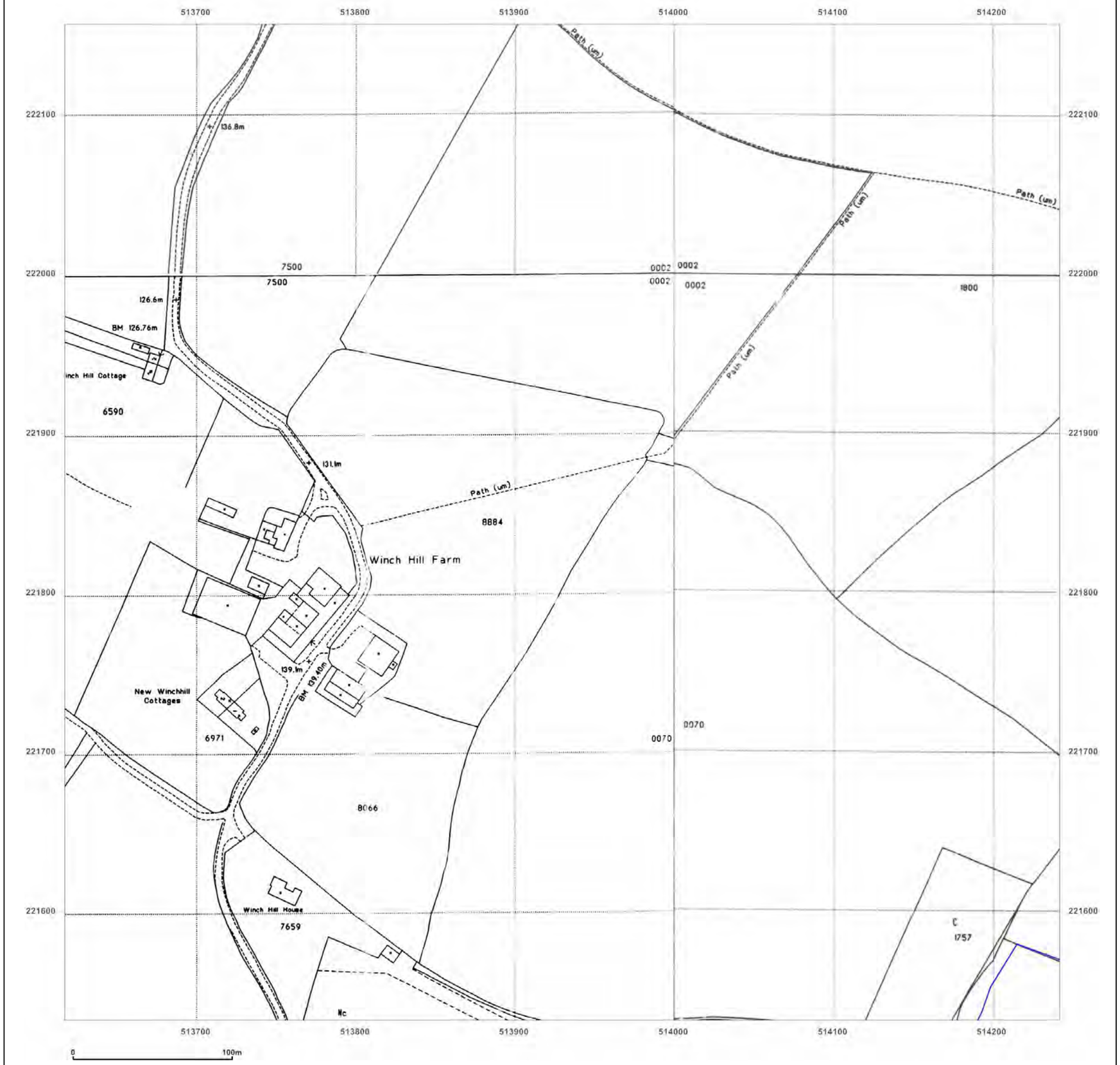

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_2
Grid Ref: 513930, 221844

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised 1992
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised 1992
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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

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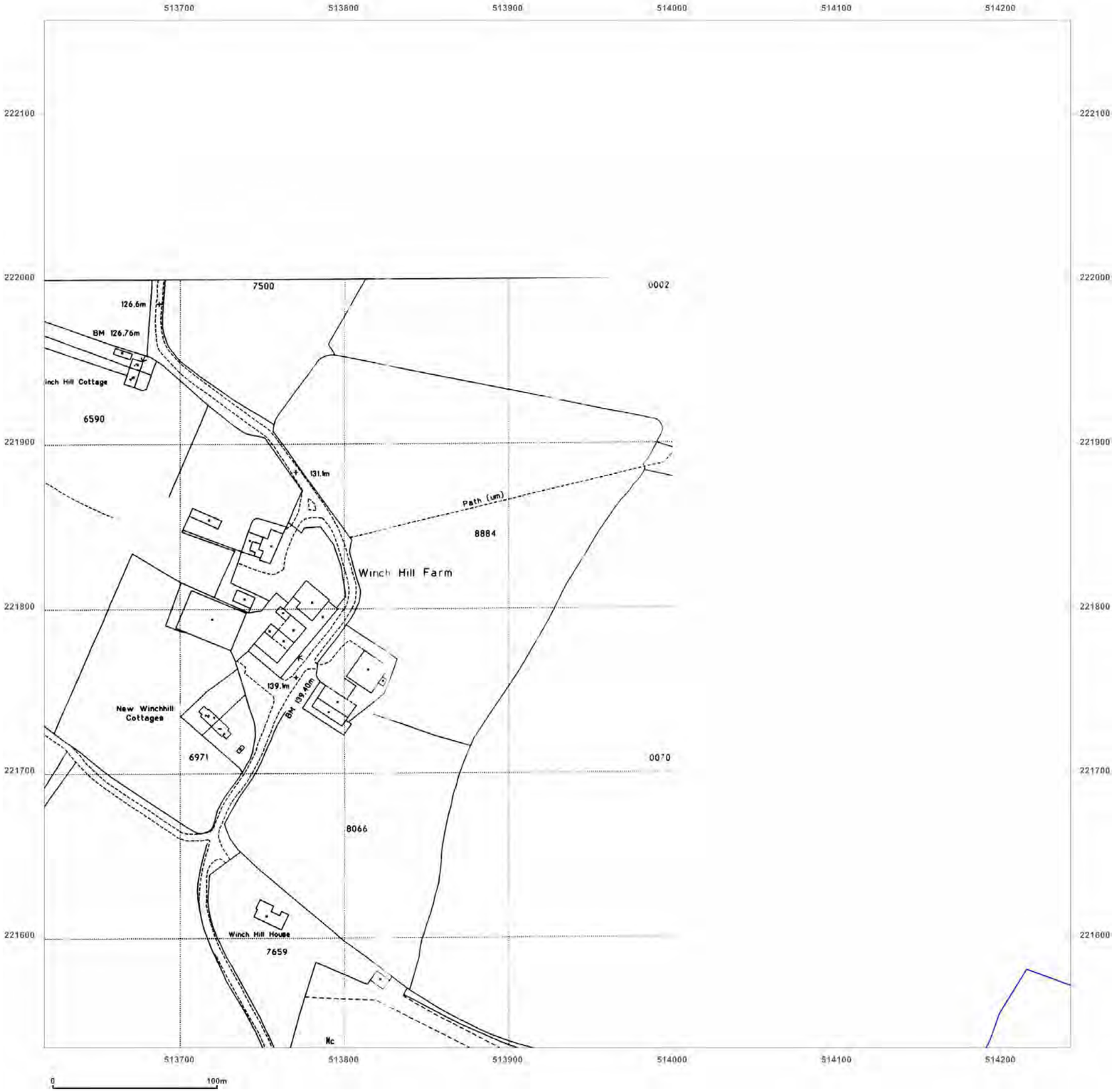

Groundsure INSIGHTS

Site Details:

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221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_2
Grid Ref: 513930, 221844

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

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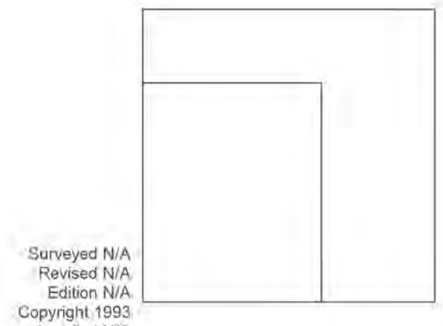

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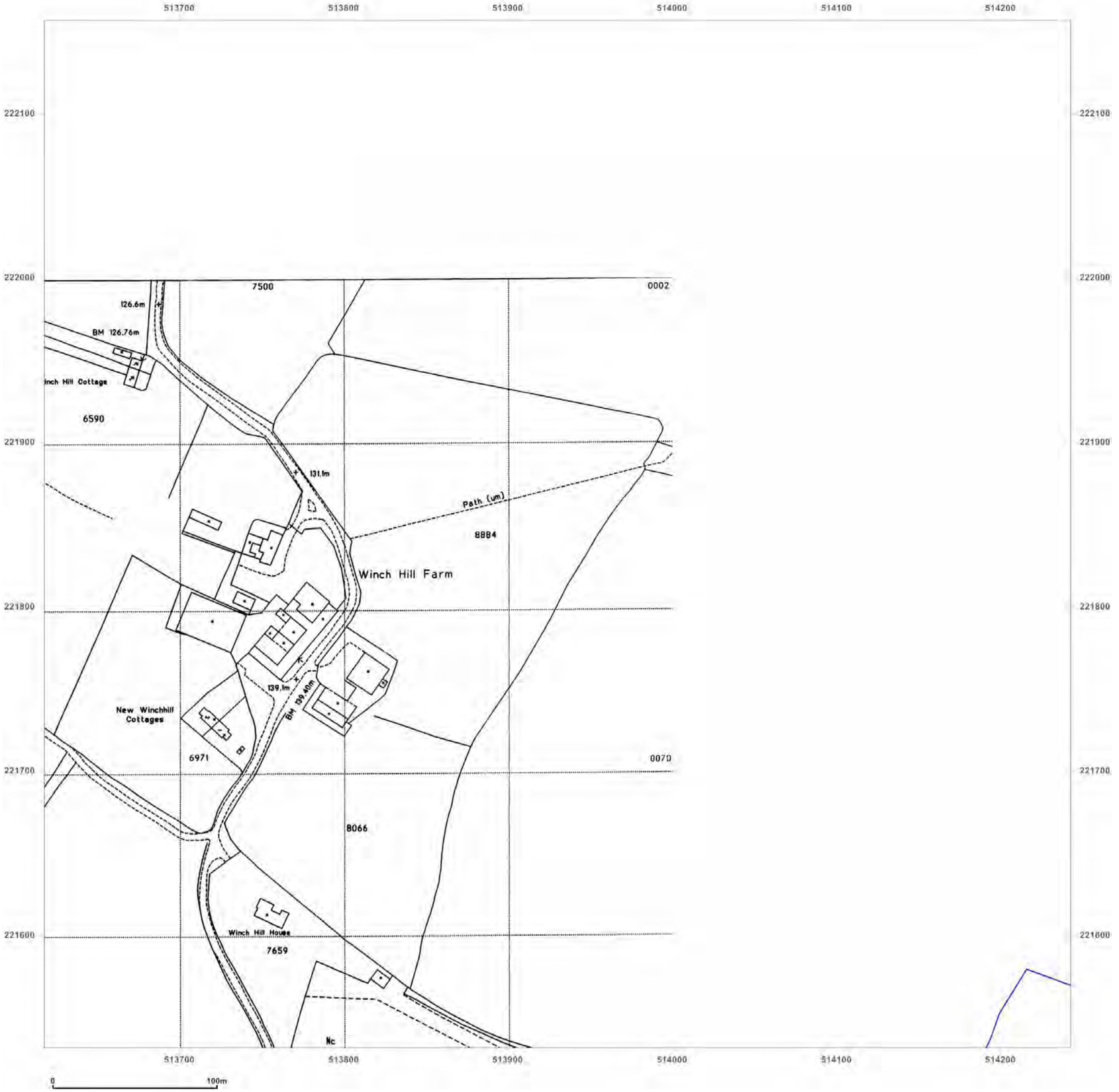

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_2
Grid Ref: 513930, 221844

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

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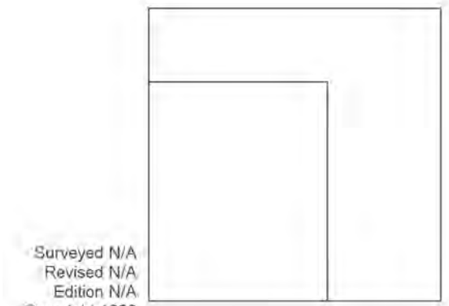

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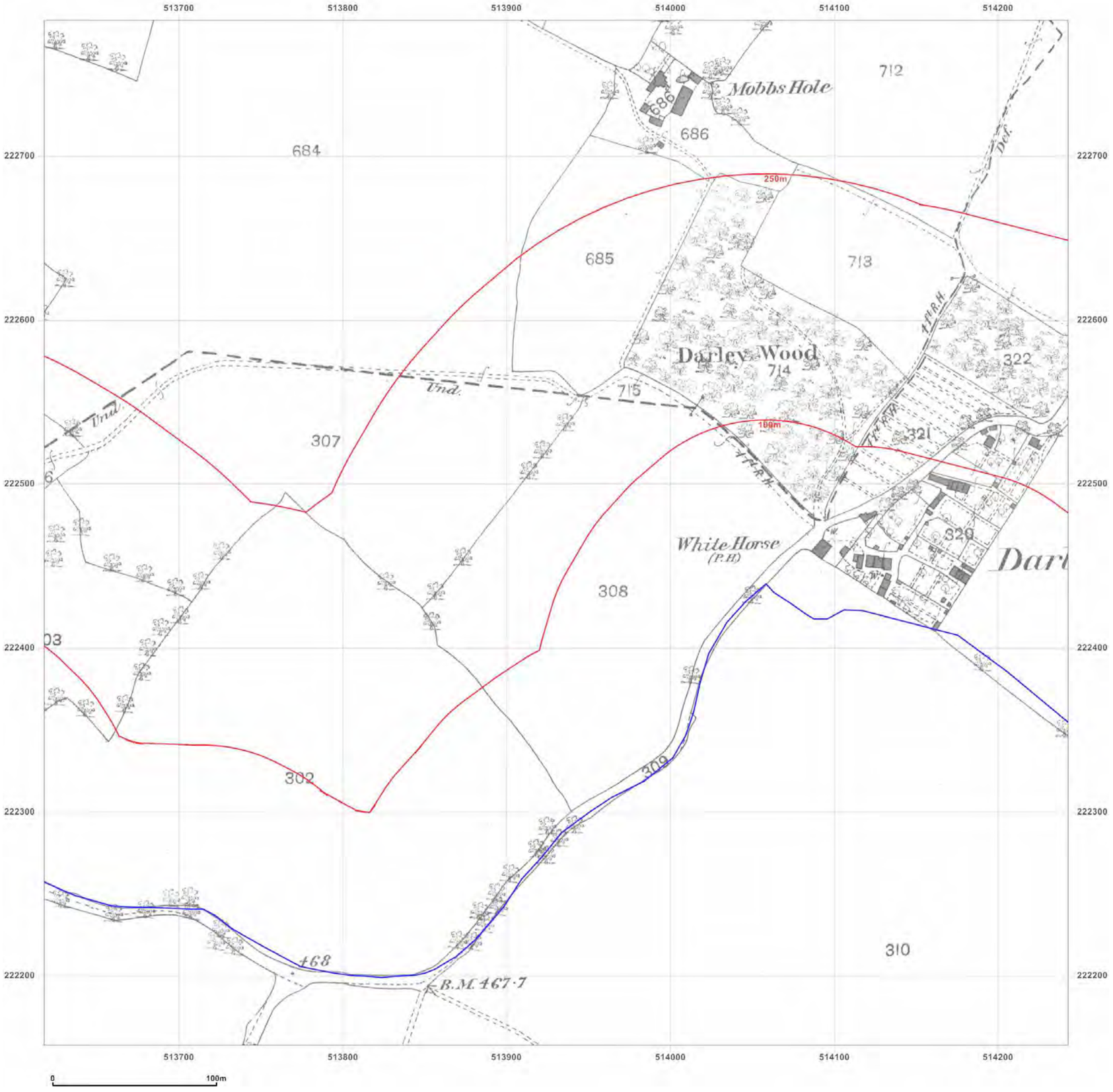

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_3
Grid Ref: 513930, 222470

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

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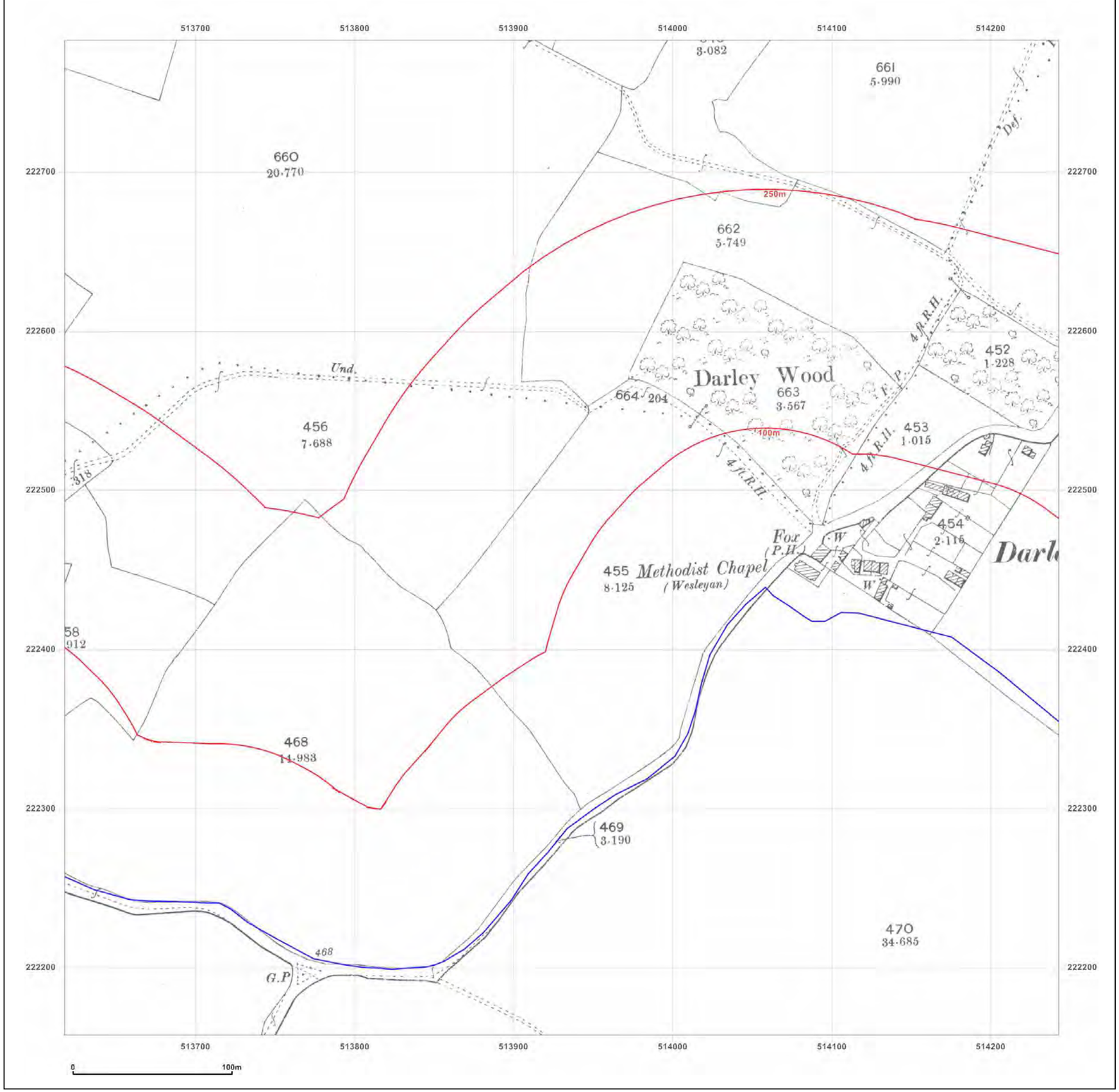

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_3
Grid Ref: 513930, 222470

Map Name: County Series
Map date: **1898**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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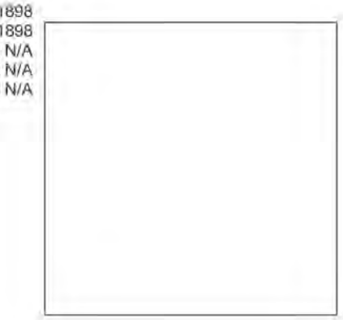
Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A



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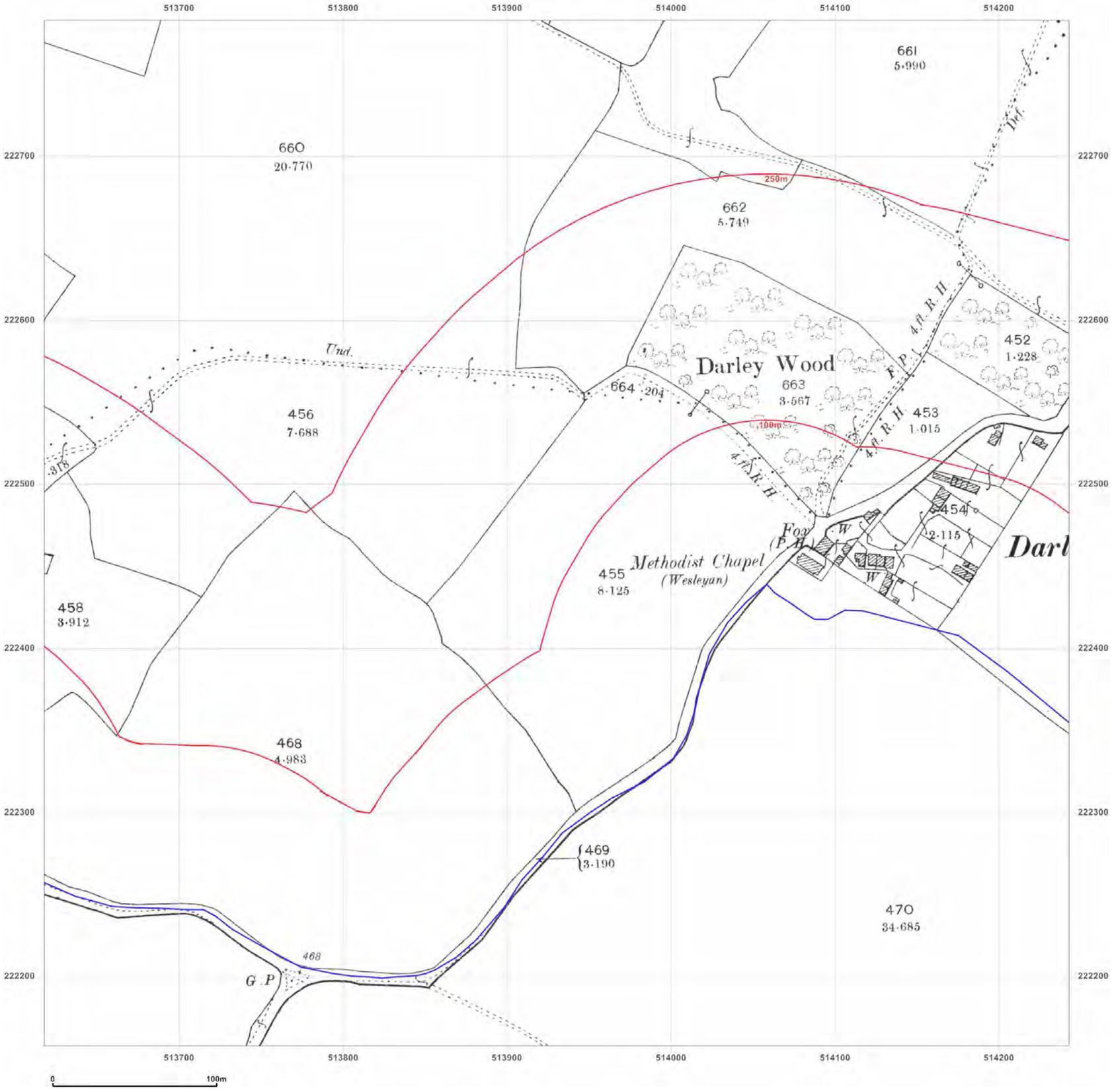

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_3
Grid Ref: 513930, 222470

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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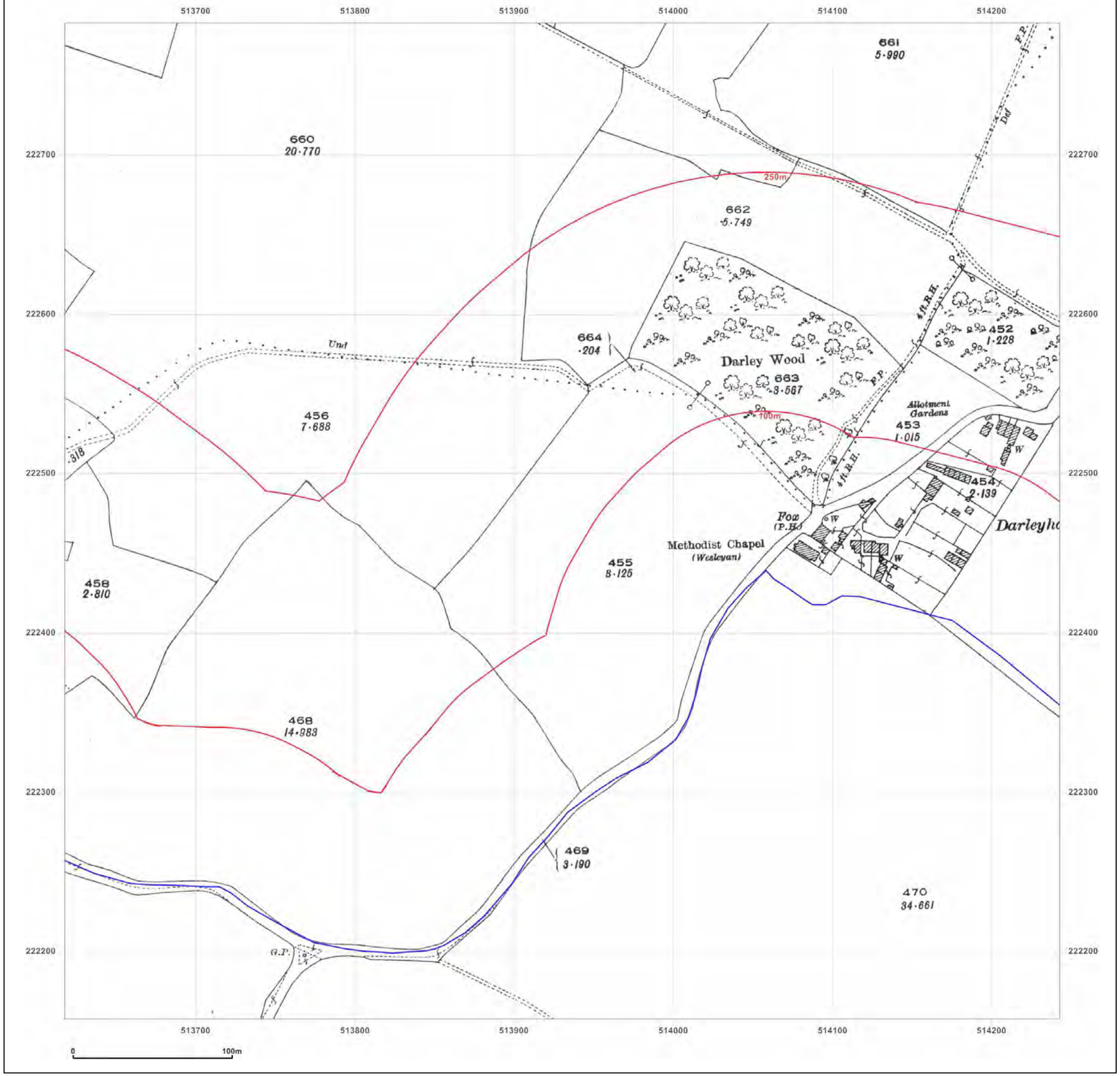

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_3
Grid Ref: 513930, 222470

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

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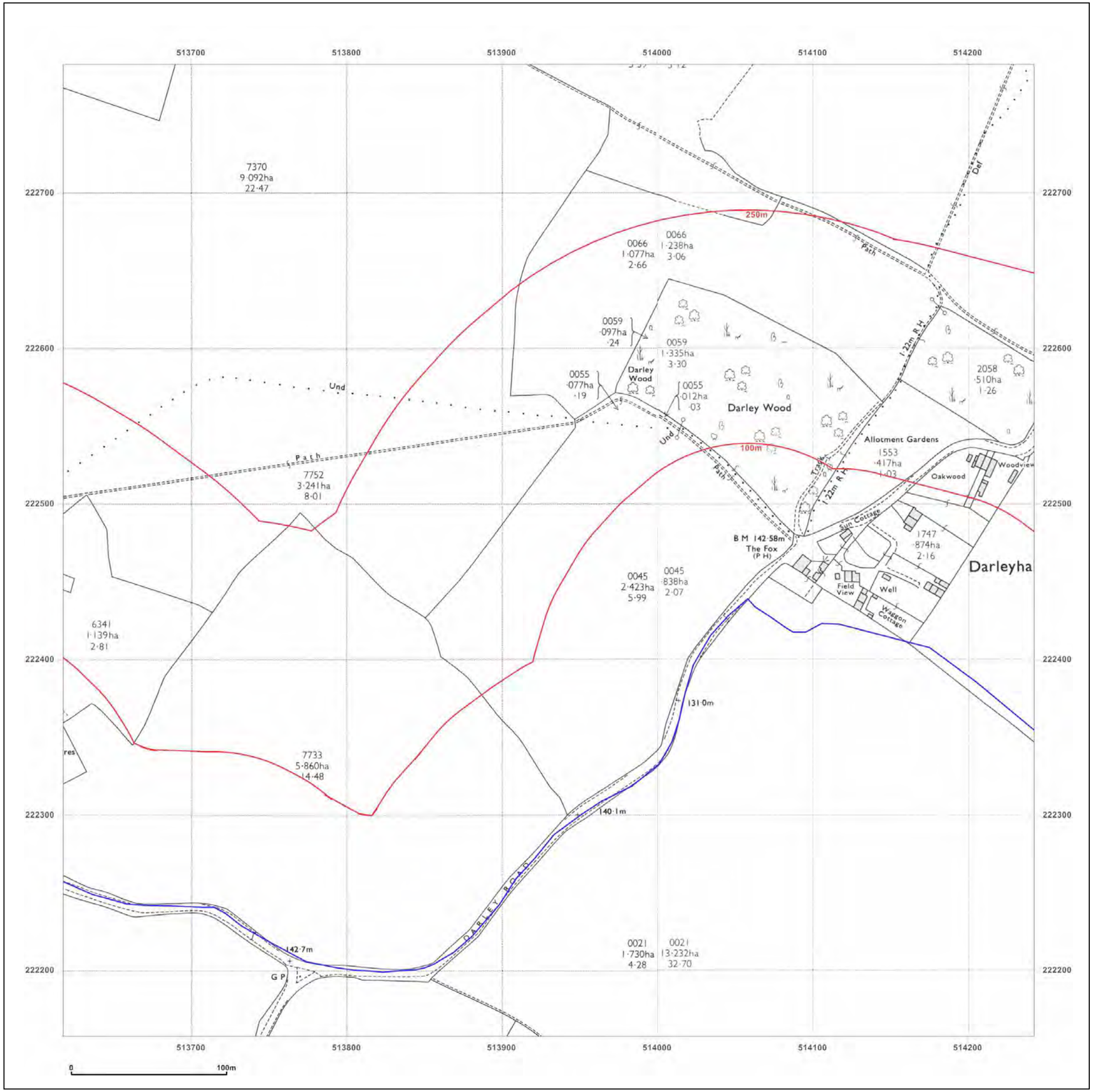

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_3
Grid Ref: 513930, 222470

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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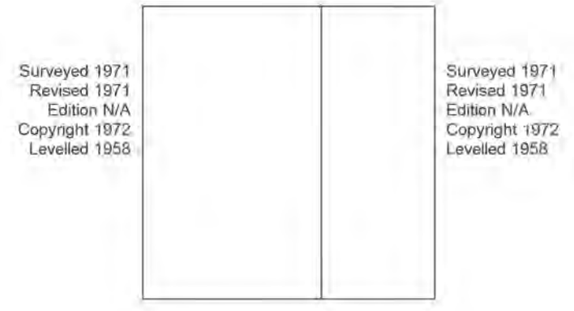

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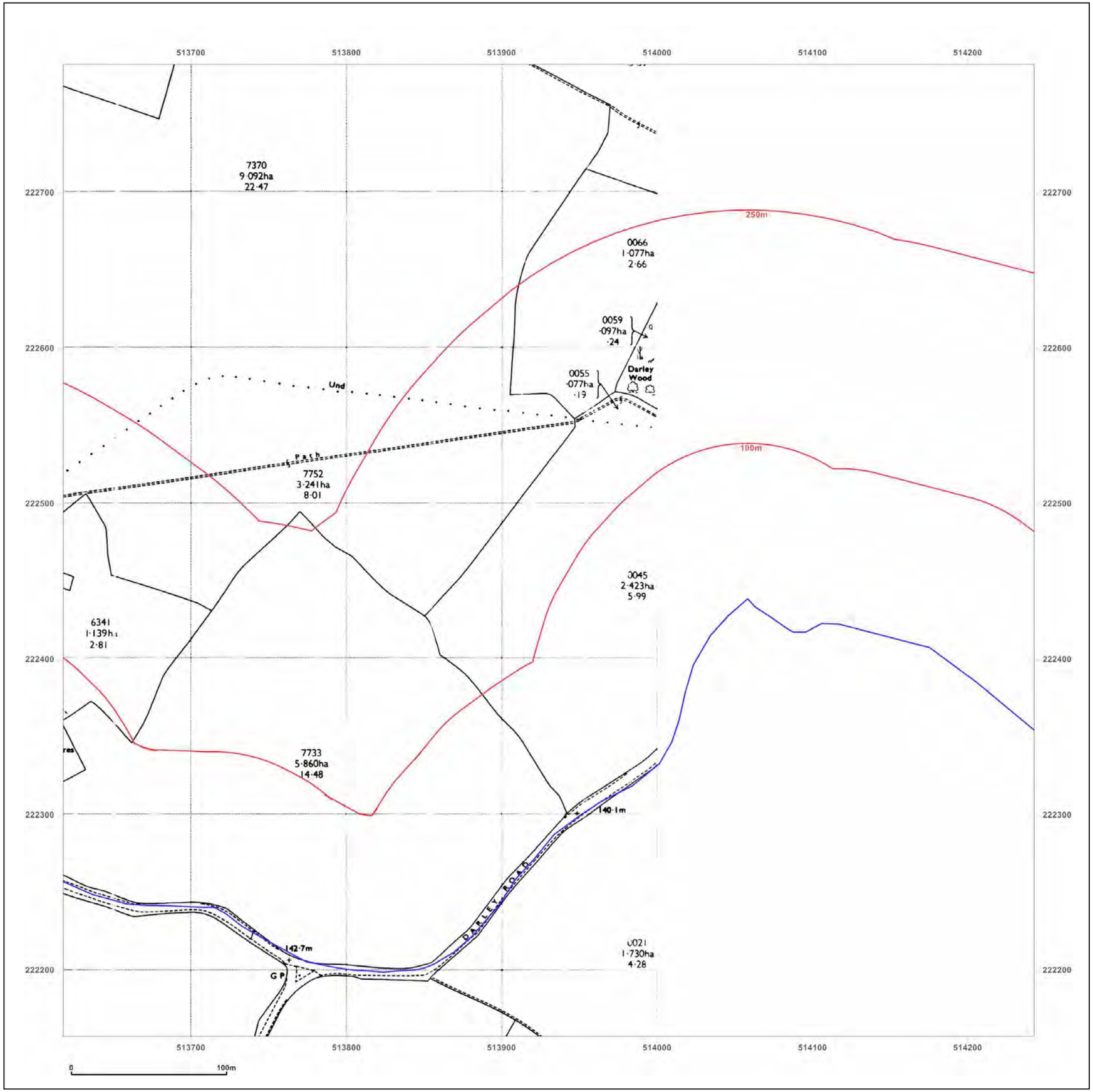

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_3
Grid Ref: 513930, 222470

Map Name: National Grid

Map date: **1972**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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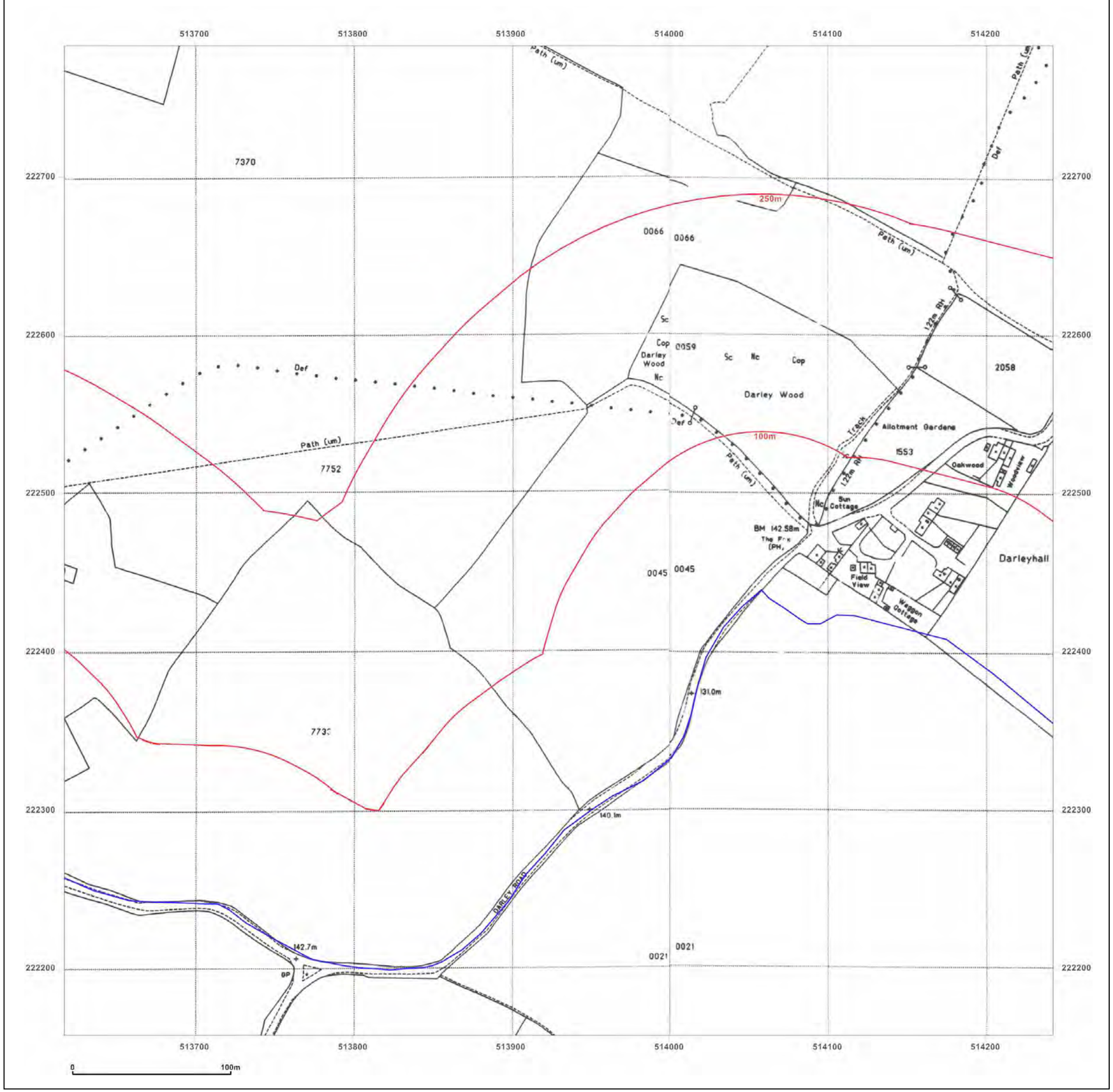

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_4_3
Grid Ref: 513930, 222470

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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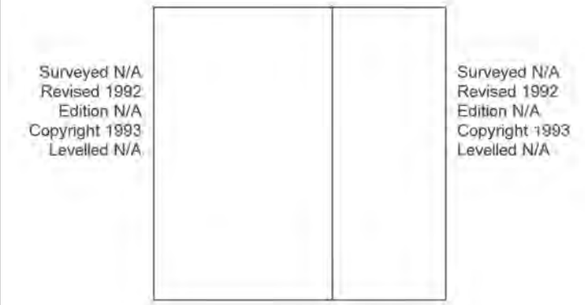

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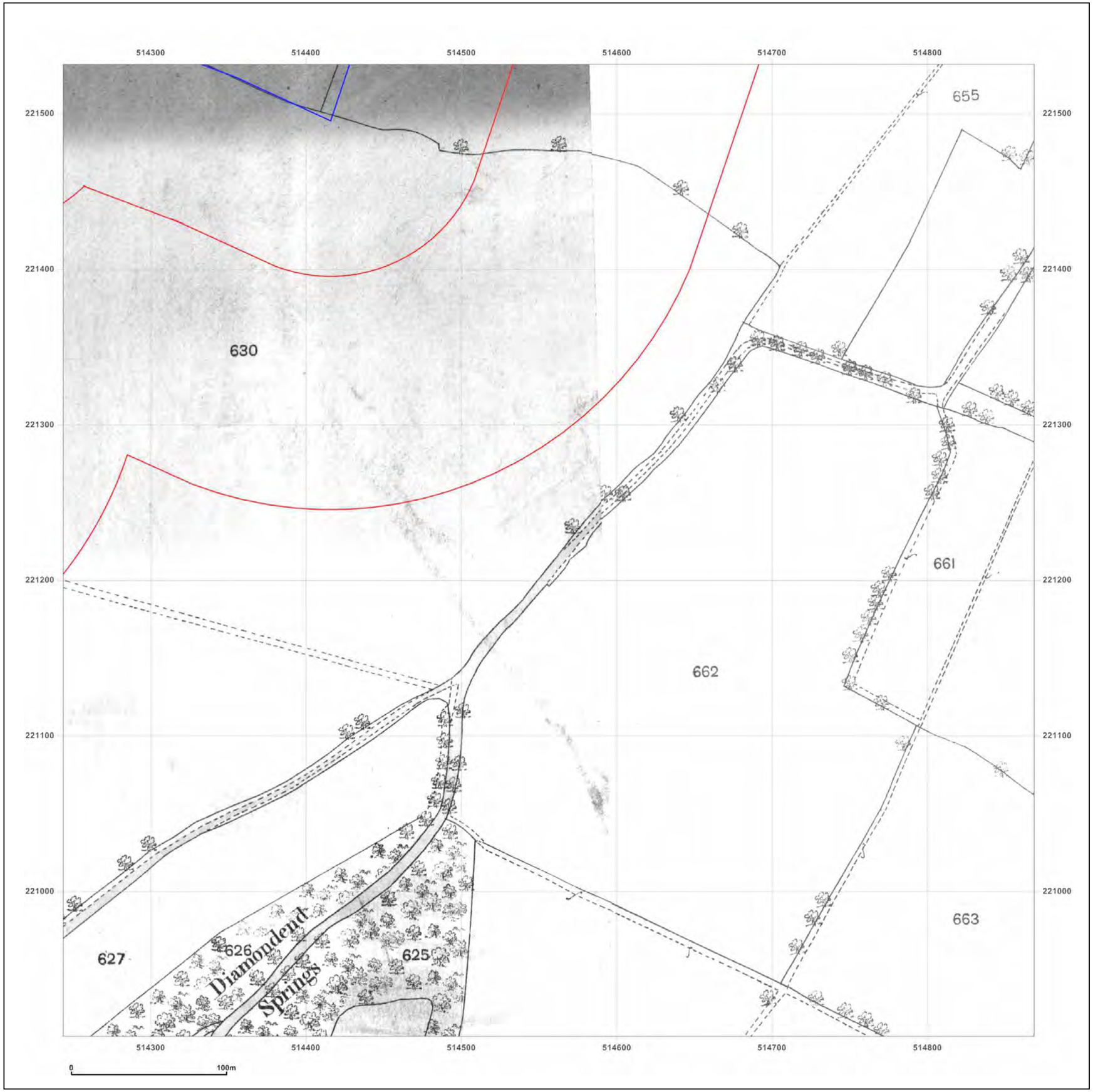

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_1
Grid Ref: 514556, 221219

Map Name: County Series
Map date: **1881**
Scale: 1:2,500
Printed at: 1:2,500

N
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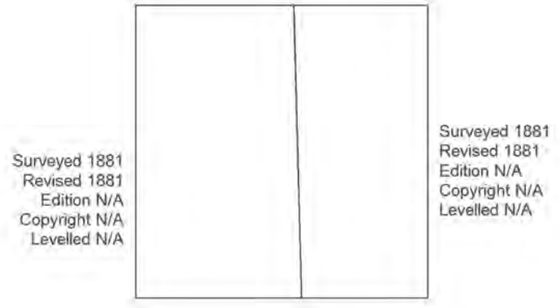

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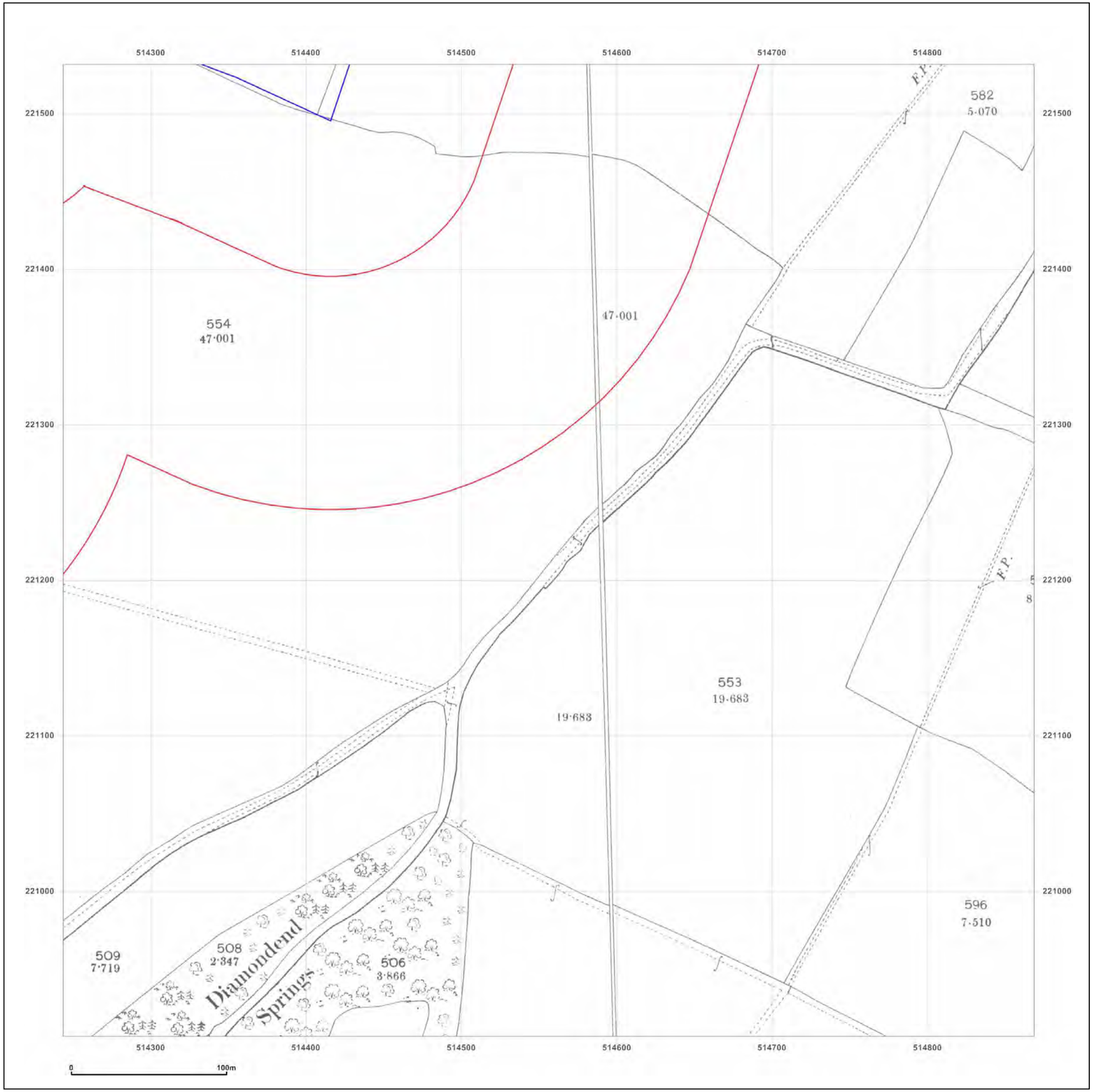

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_1
Grid Ref: 514556, 221219

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
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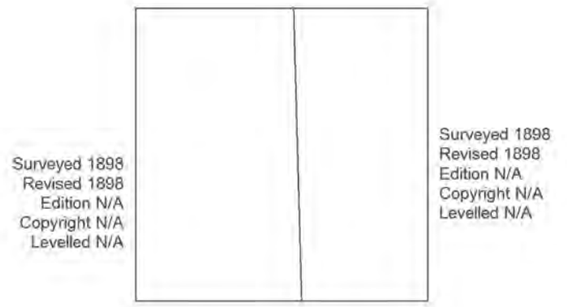

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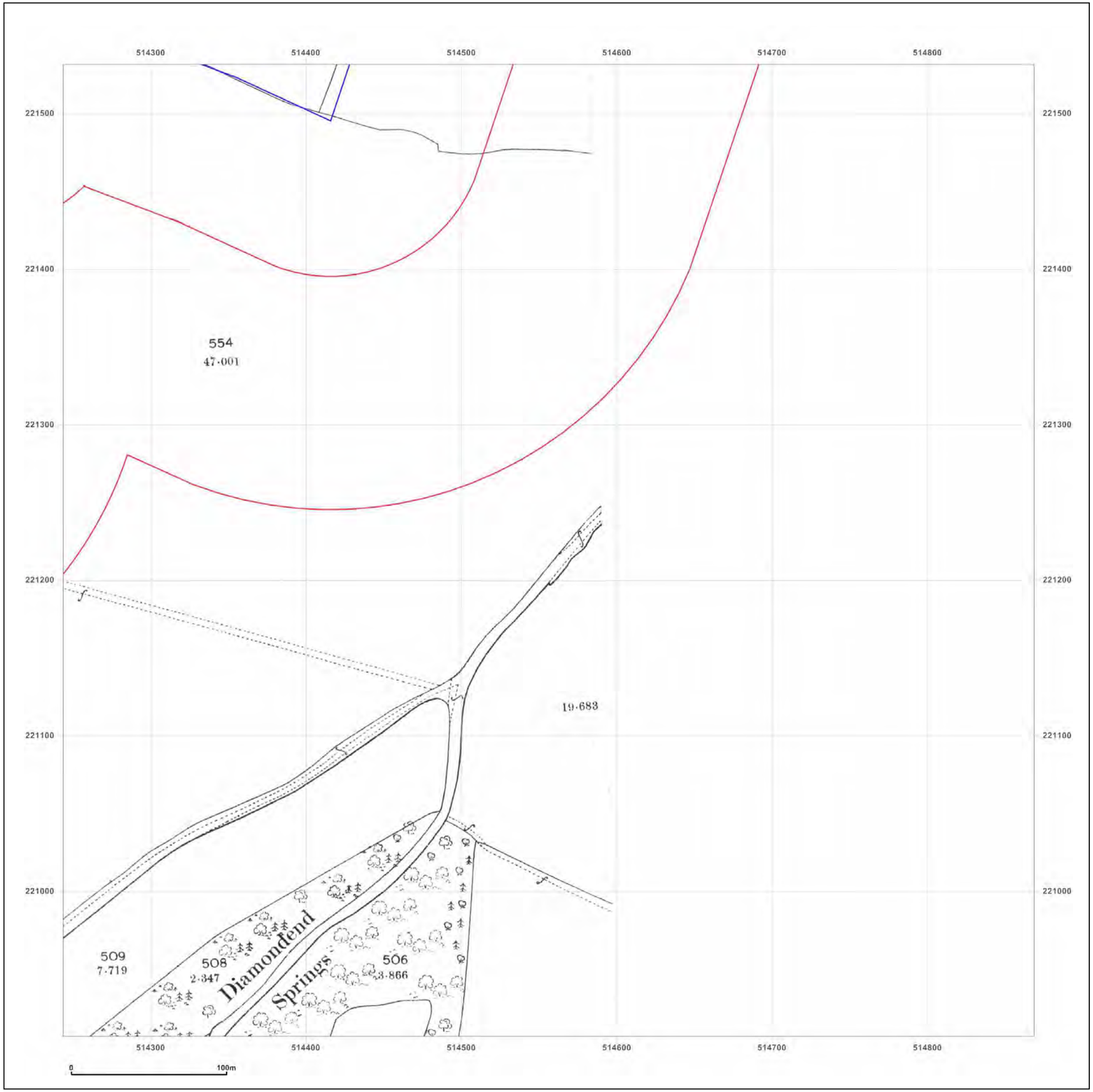

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_1
Grid Ref: 514556, 221219

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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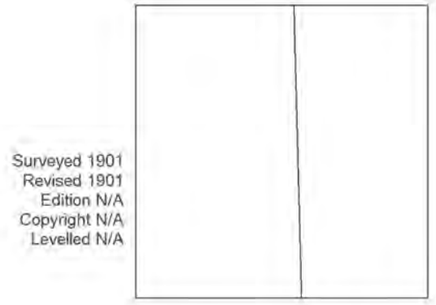

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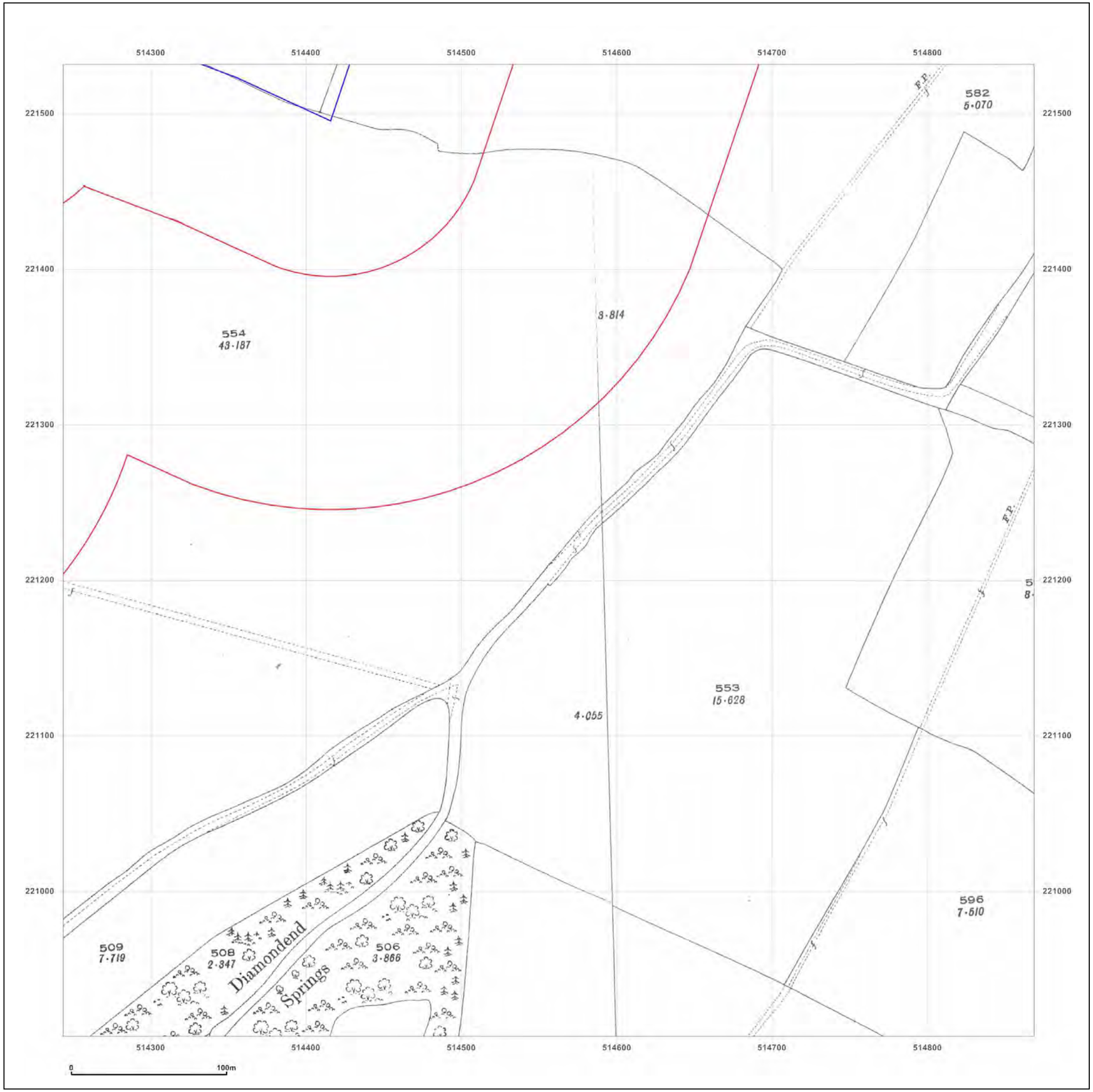

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_1
Grid Ref: 514556, 221219

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

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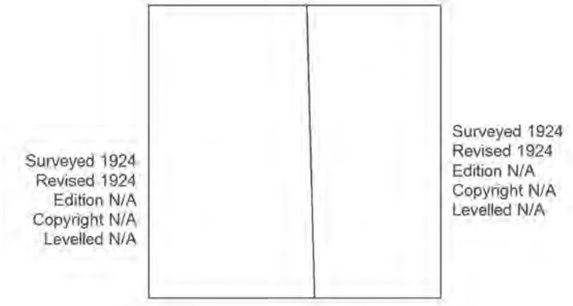

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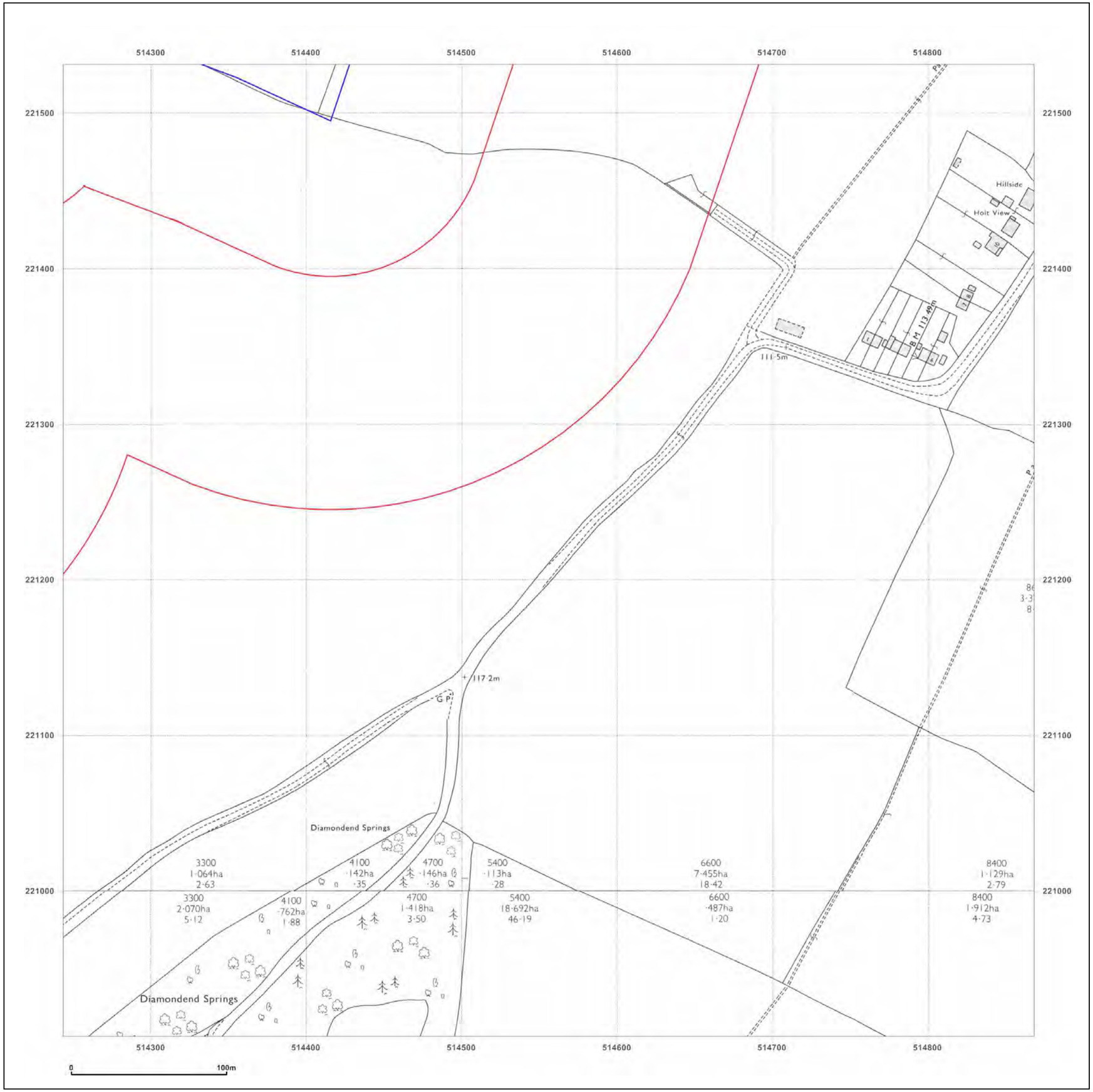

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_1
Grid Ref: 514556, 221219

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
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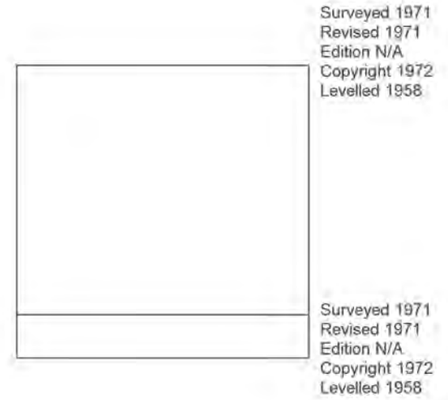

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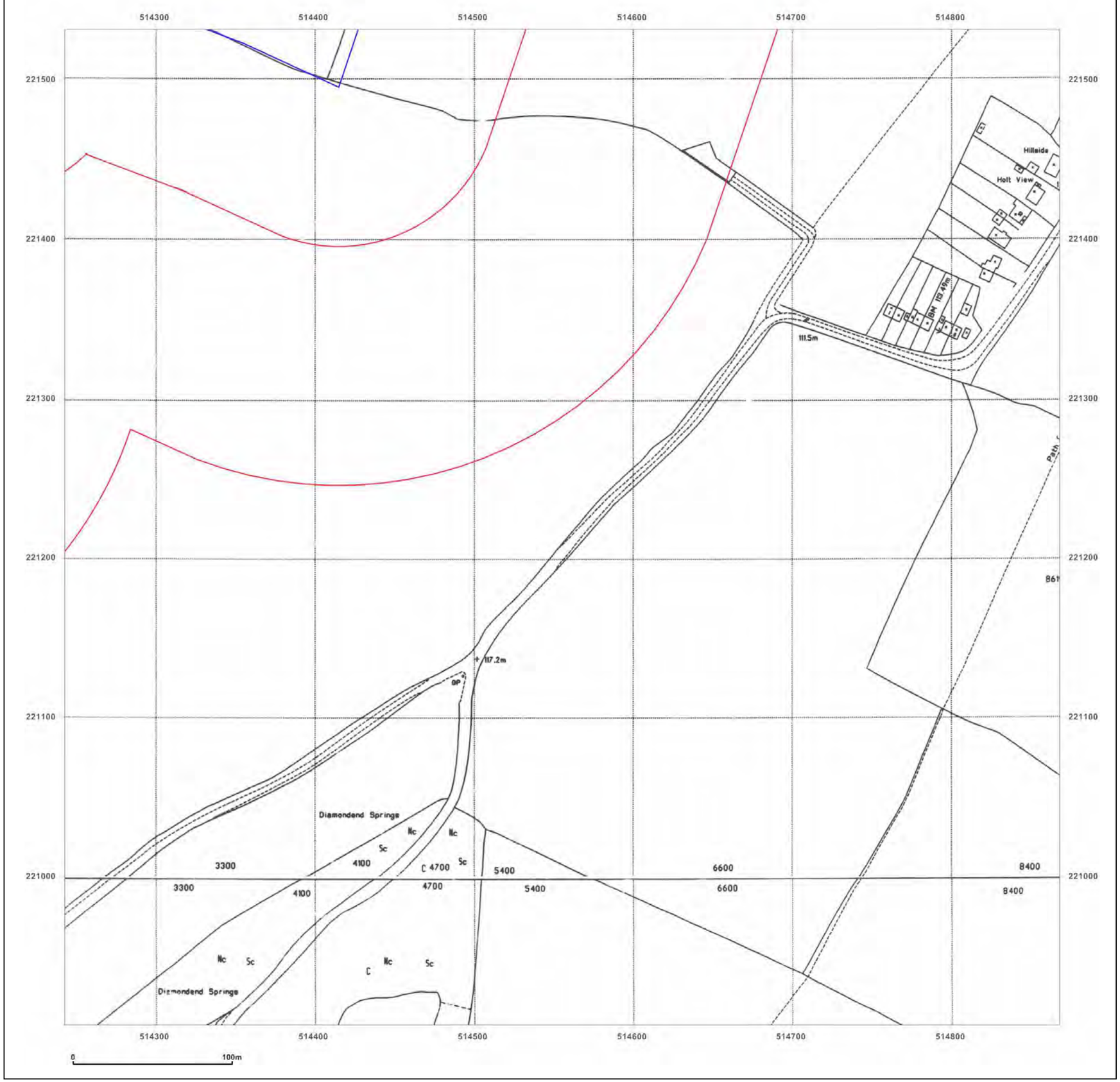

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_1
Grid Ref: 514556, 221219

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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

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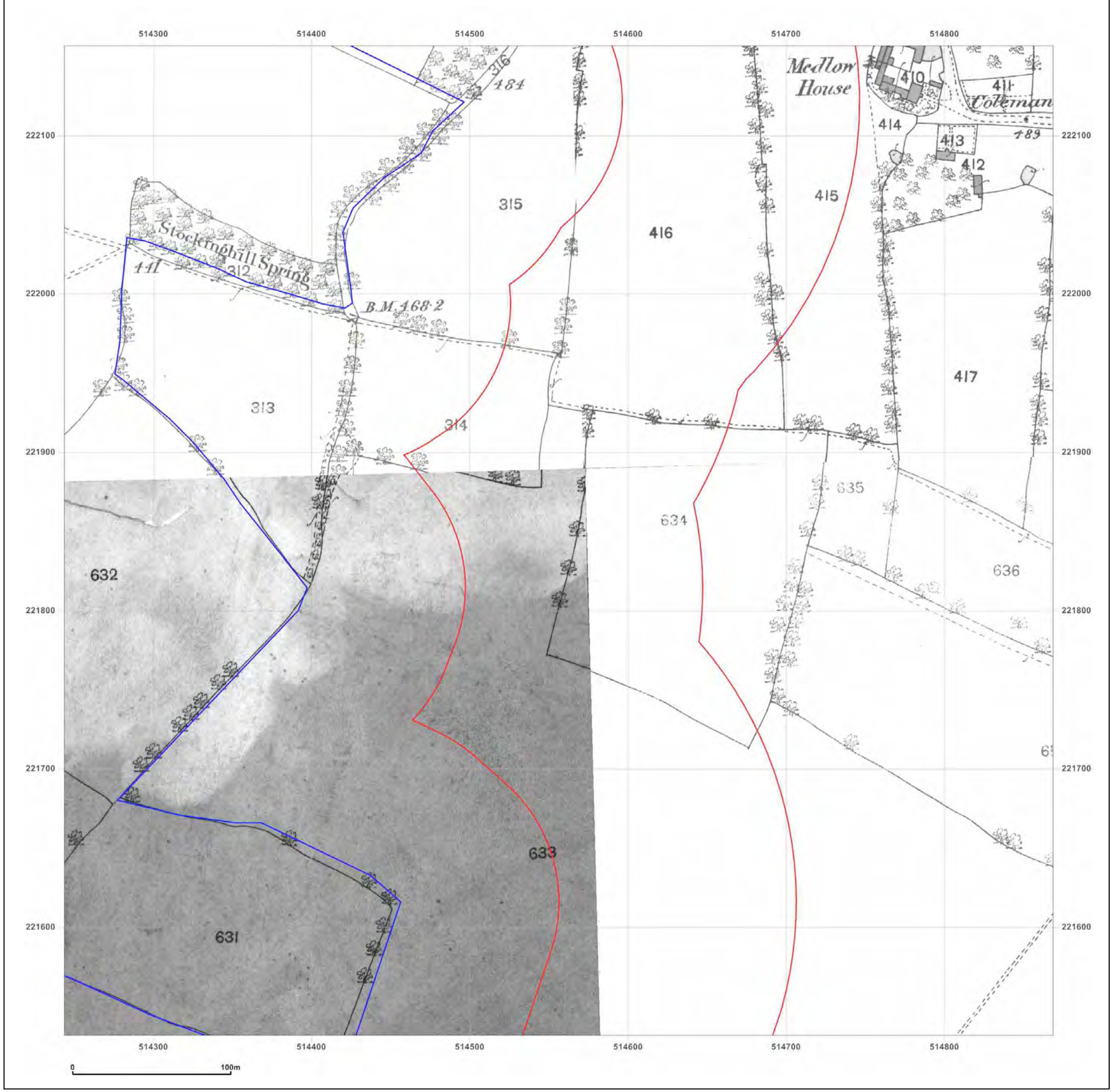

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_2
Grid Ref: 514556, 221844

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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Revised 1881
Edition N/A
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Levelled N/A

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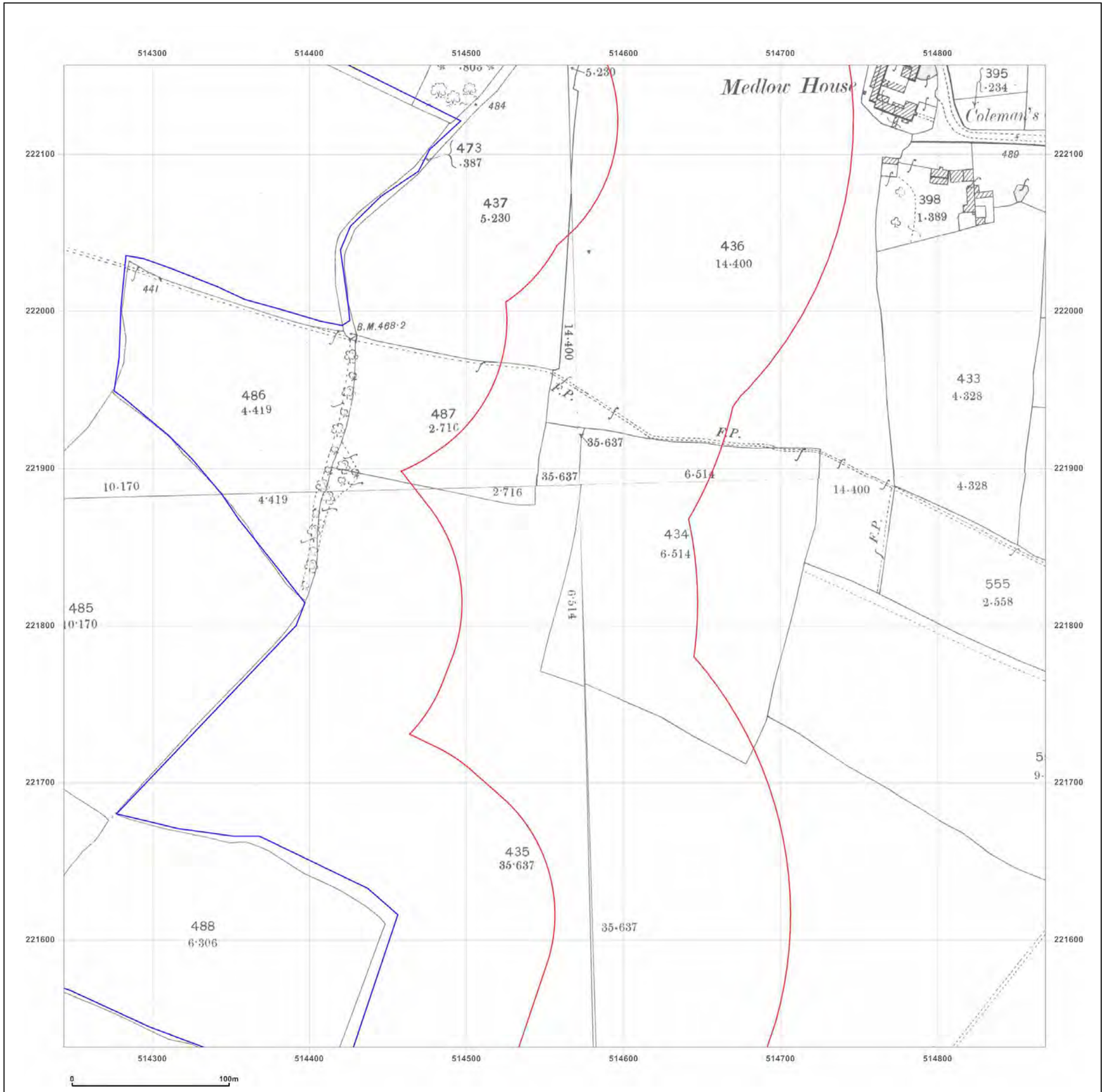

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_2
Grid Ref: 514556, 221844

Map Name: County Series
Map date: **1898**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

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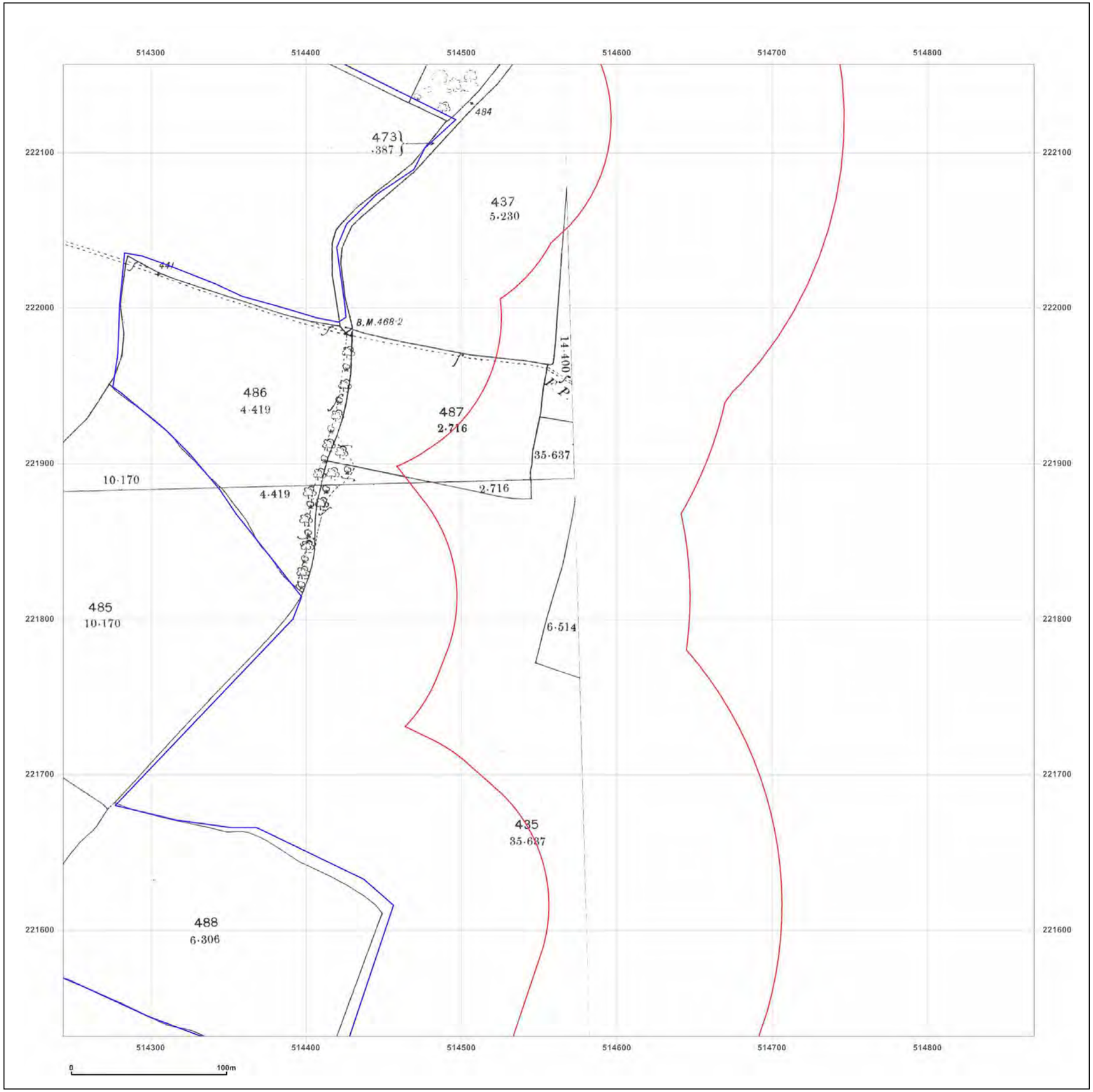

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_2
Grid Ref: 514556, 221844

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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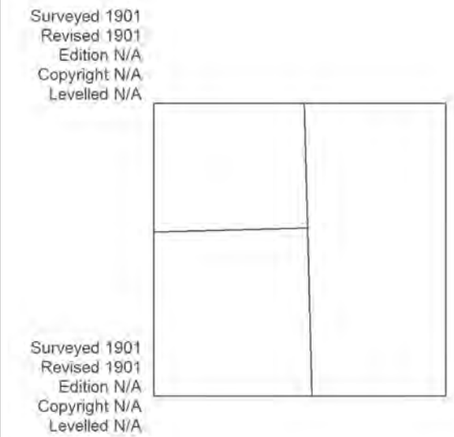

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Production date: 16 October 2018

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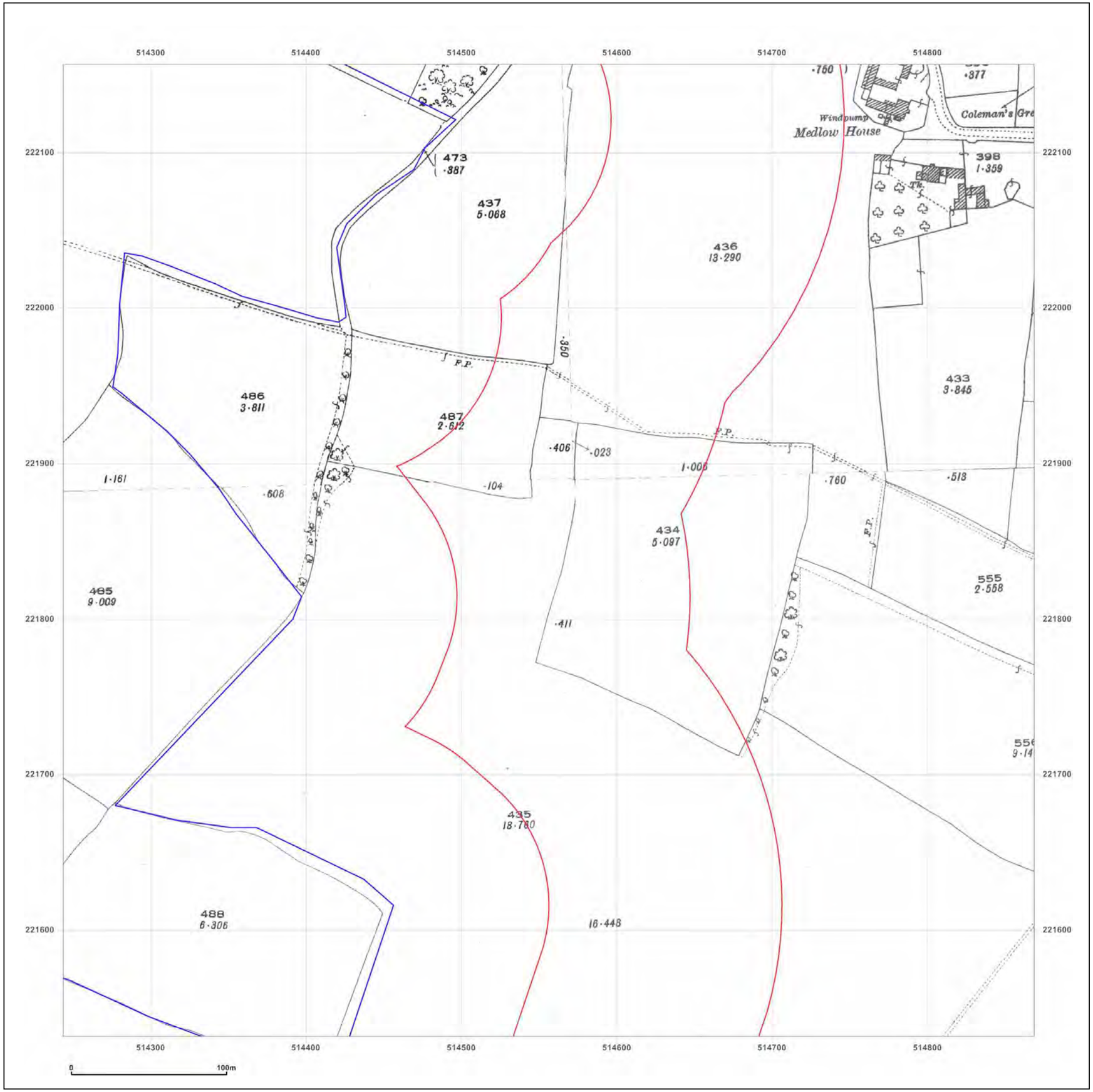

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_2
Grid Ref: 514556, 221844

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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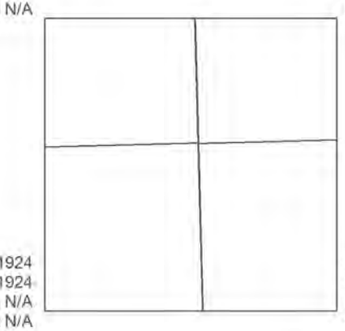
Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 16 October 2018

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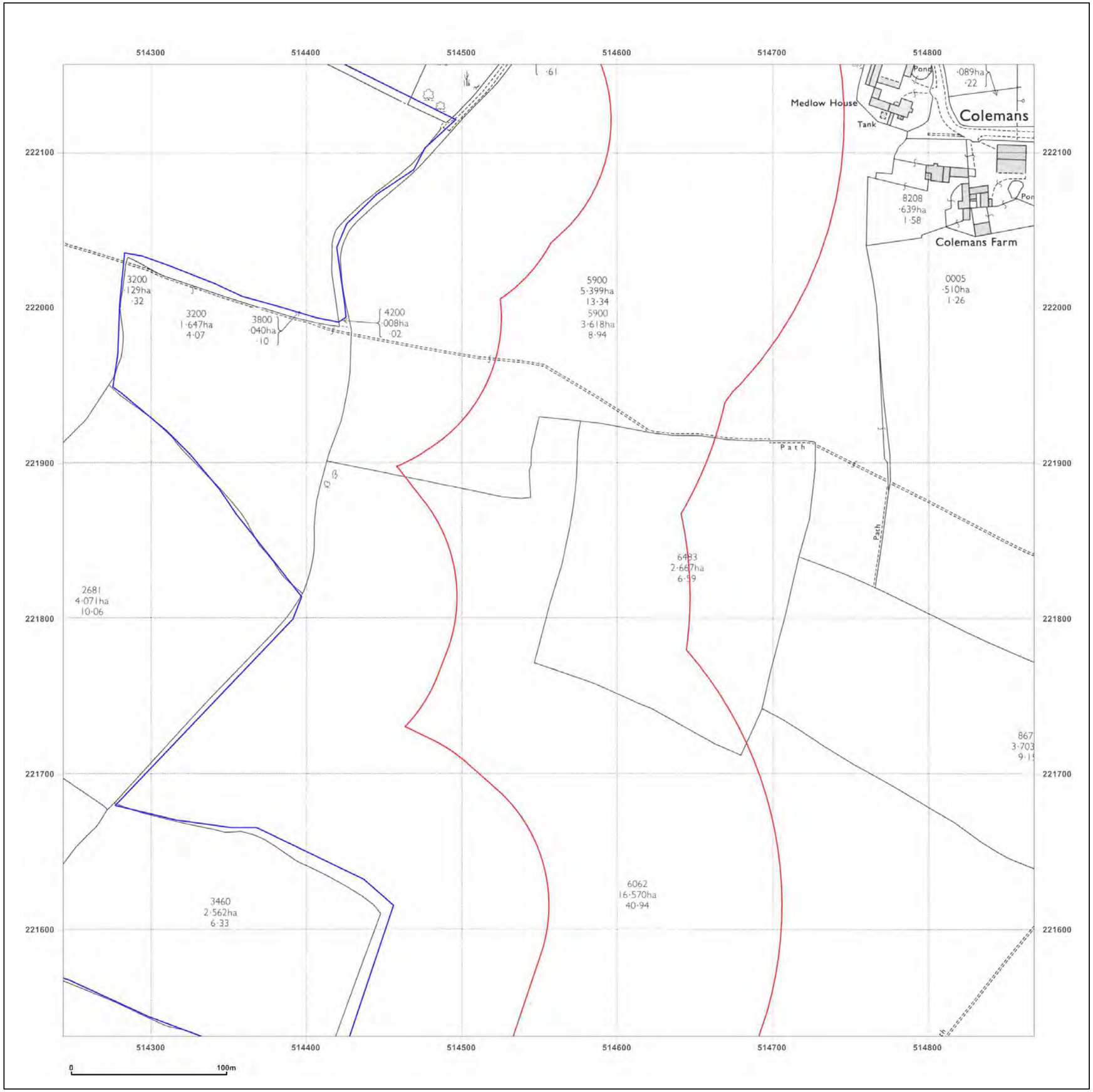


Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_2
Grid Ref: 514556, 221844

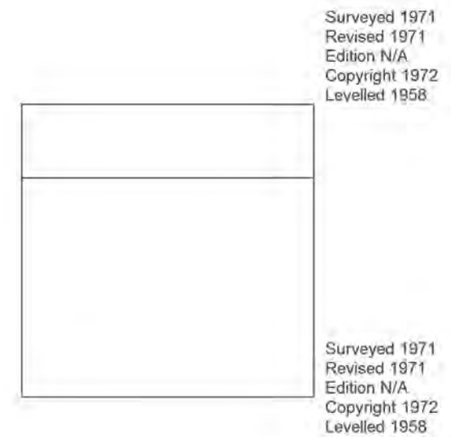
Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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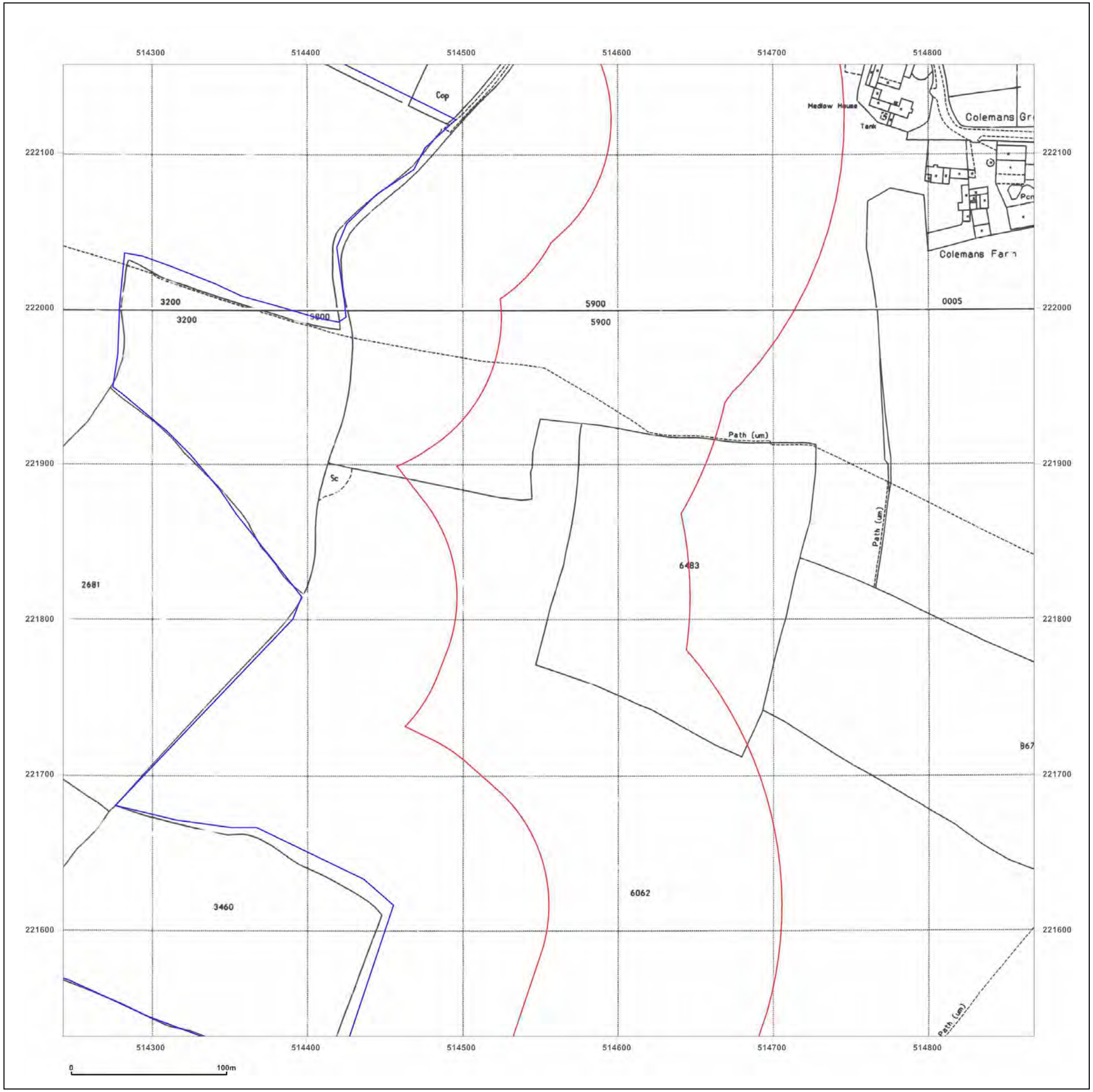

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_2
Grid Ref: 514556, 221844

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised 1992
Edition N/A
Copyright 1993
Levelled N/A

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

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Production date: 16 October 2018

Map legend available at:
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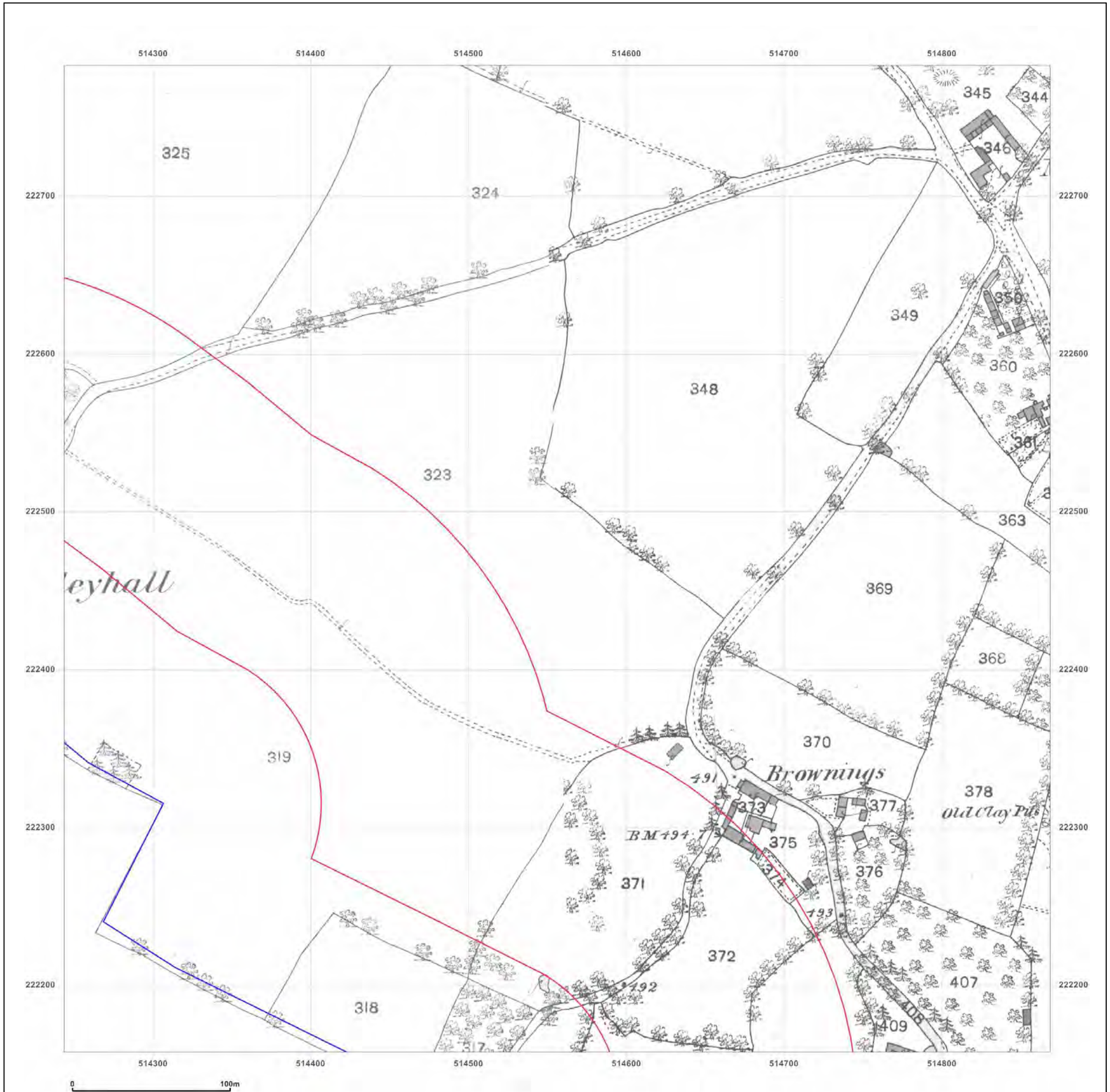


Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_3
Grid Ref: 514556, 222470

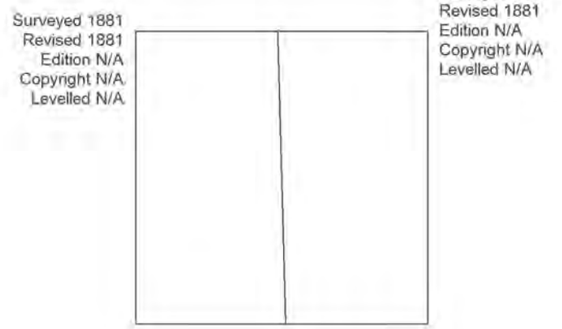
Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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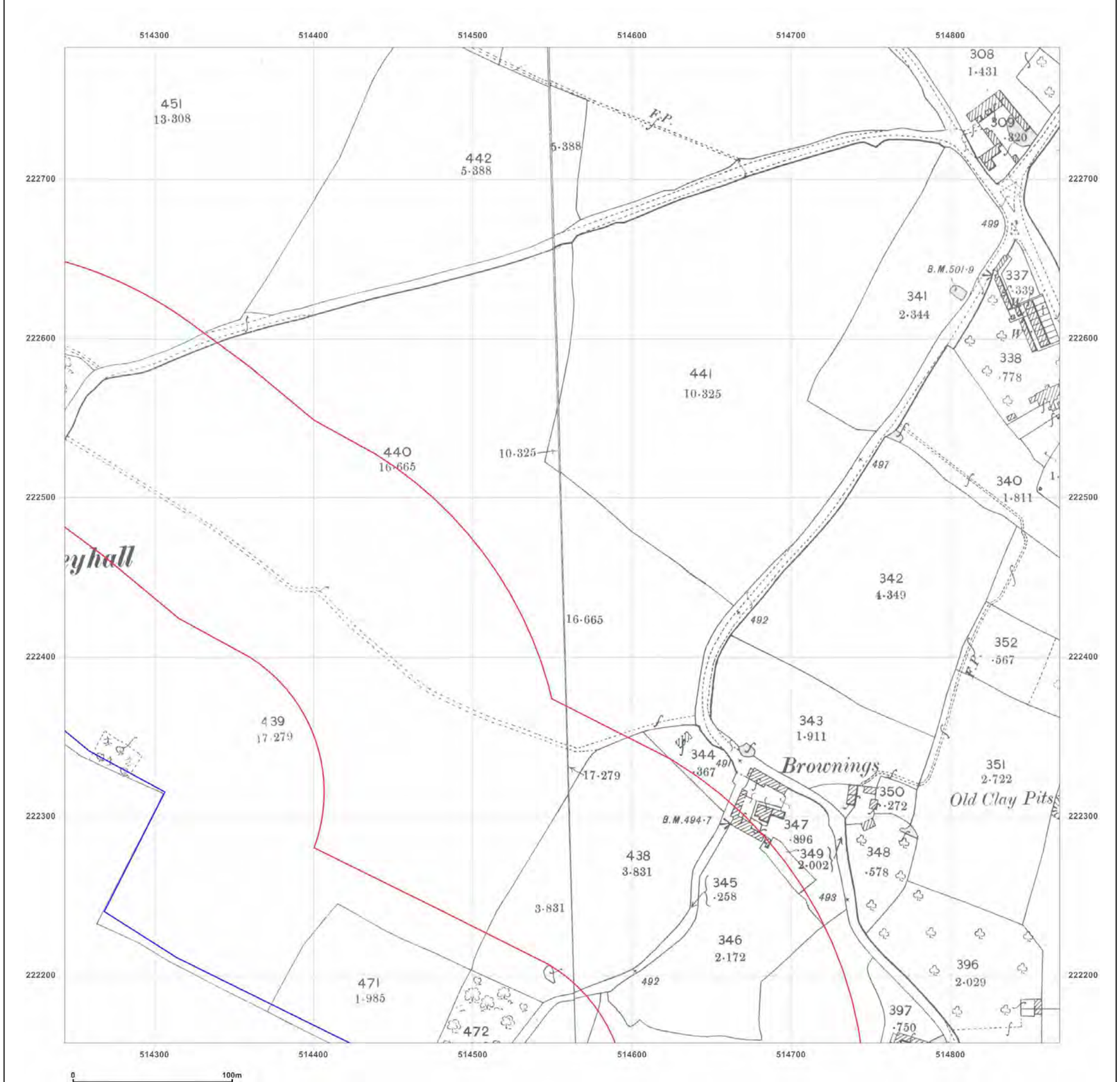


Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_3
Grid Ref: 514556, 222470

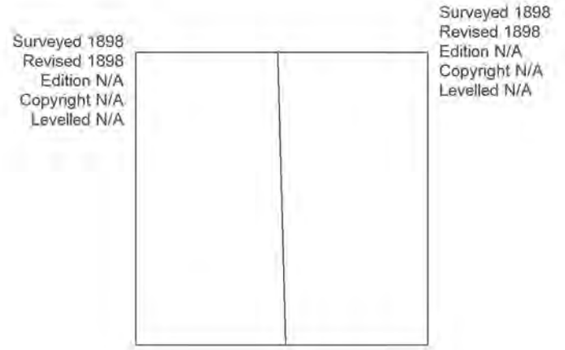
Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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Production date: 16 October 2018

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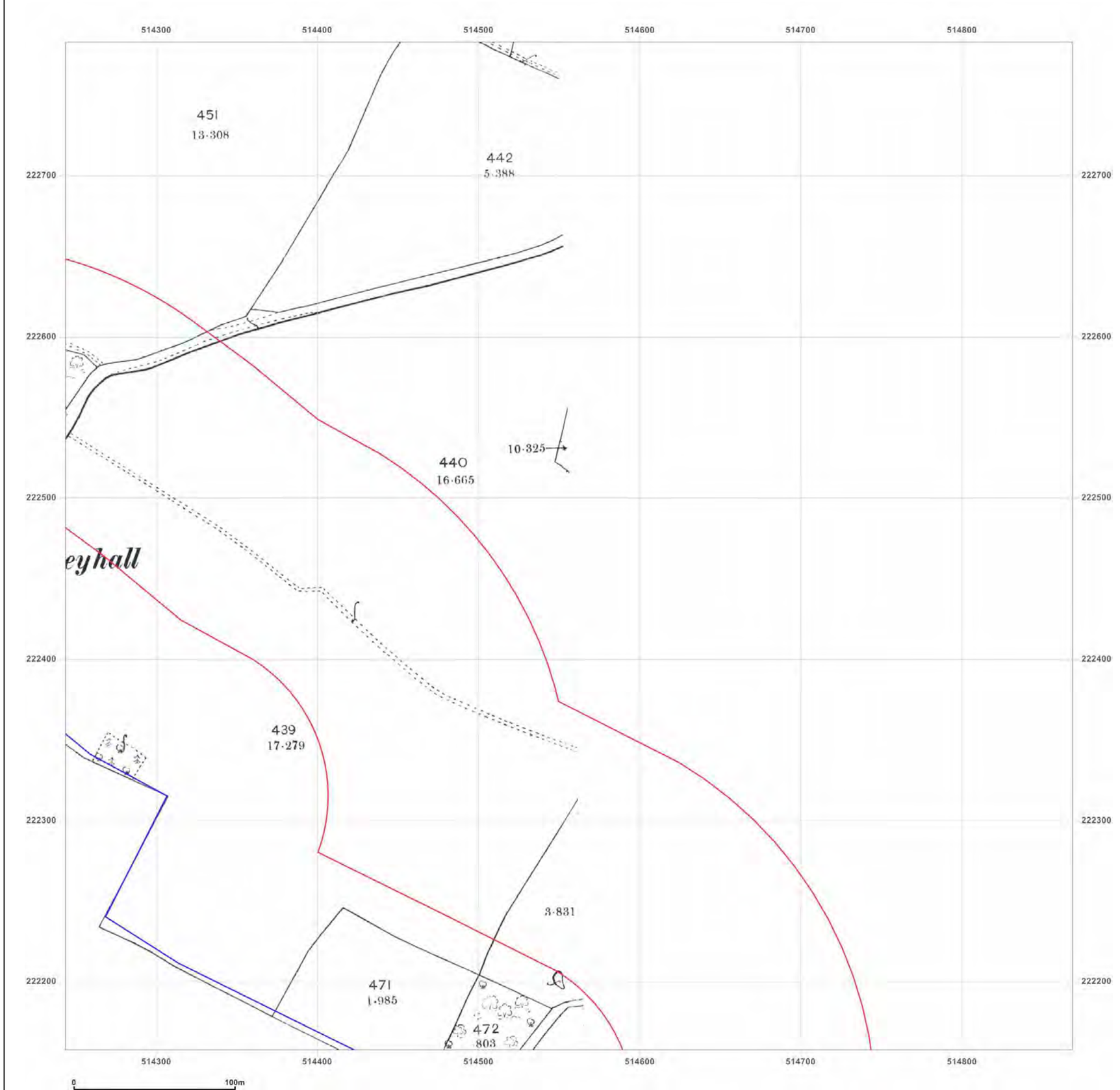

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_3
Grid Ref: 514556, 222470

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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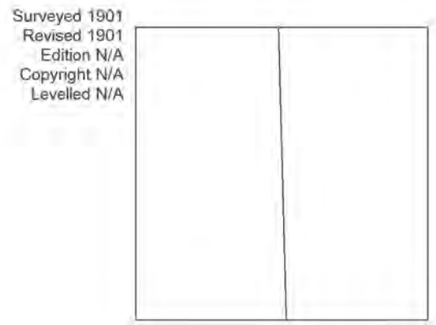

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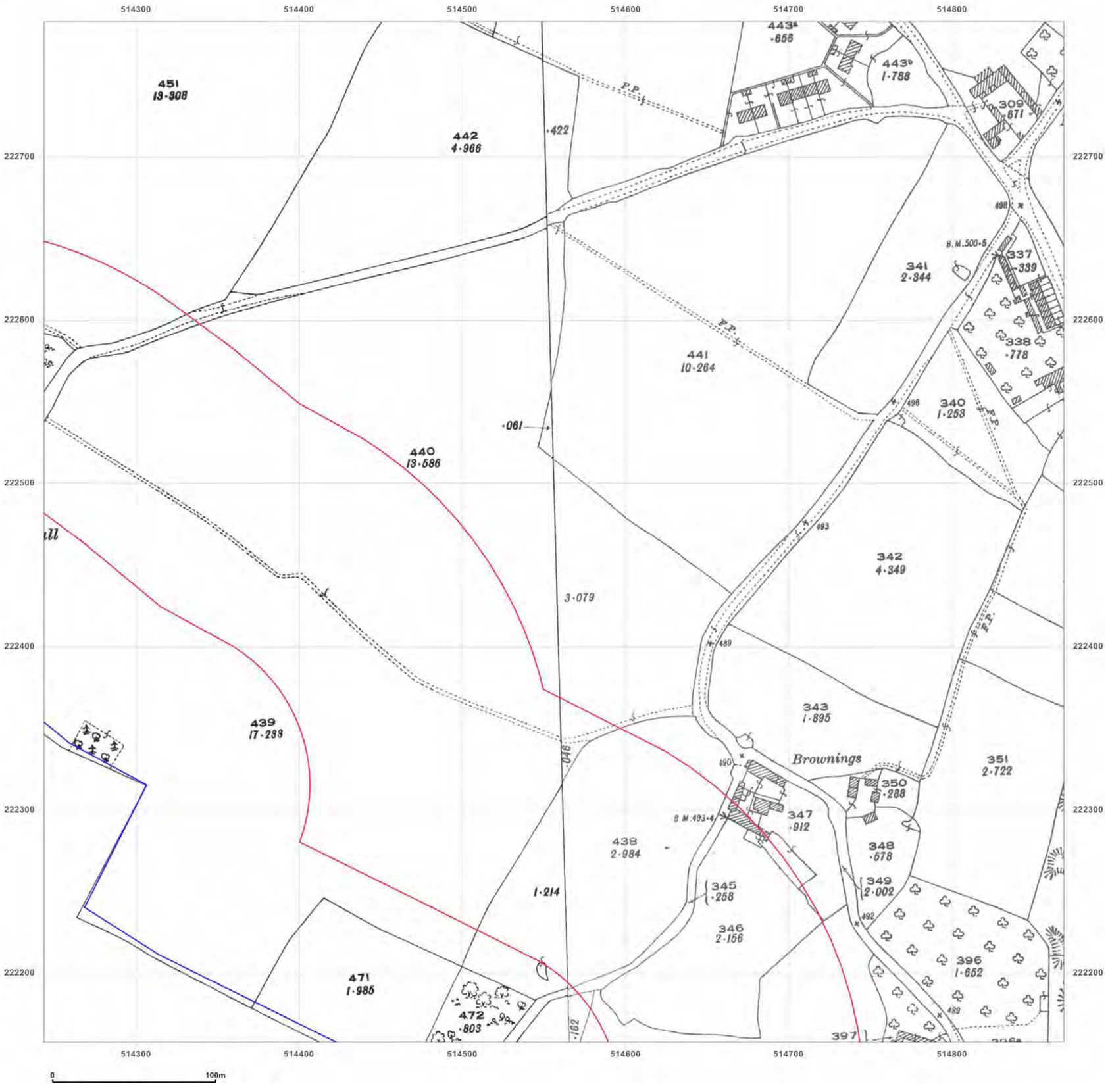

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_3
Grid Ref: 514556, 222470

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

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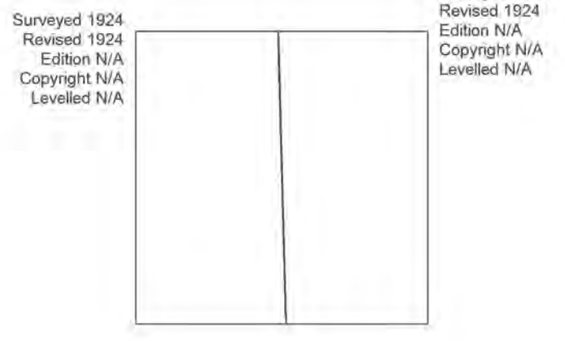

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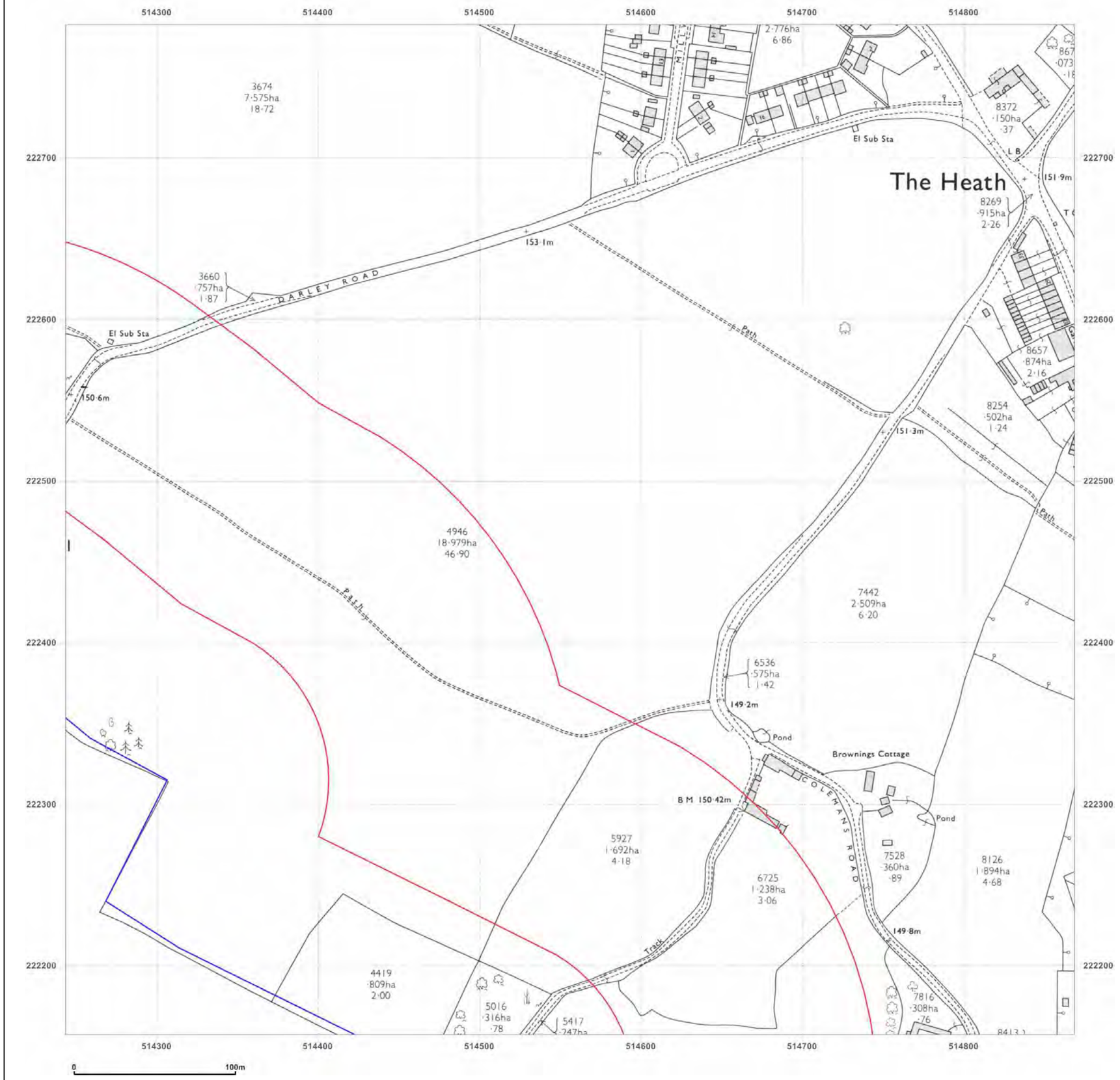

Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_3
Grid Ref: 514556, 222470

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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Map legend available at:
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Groundsure INSIGHTS

Site Details:

513326.29595395754,
221834.97641249464

Client Ref: 245580-02
Report Ref: GS-5534634_LS_5_3
Grid Ref: 514556, 222470

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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W E
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Surveyed N/A
Revised 1992
Edition N/A
Copyright 1993
Levelled N/A

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Map legend available at:
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A2 Existing Airport Land

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Luton Airport

Order Details

Date: 20/11/2020

Your ref: Luton Aiport Expansion

Our Ref: GSIP-2020-10588-3212

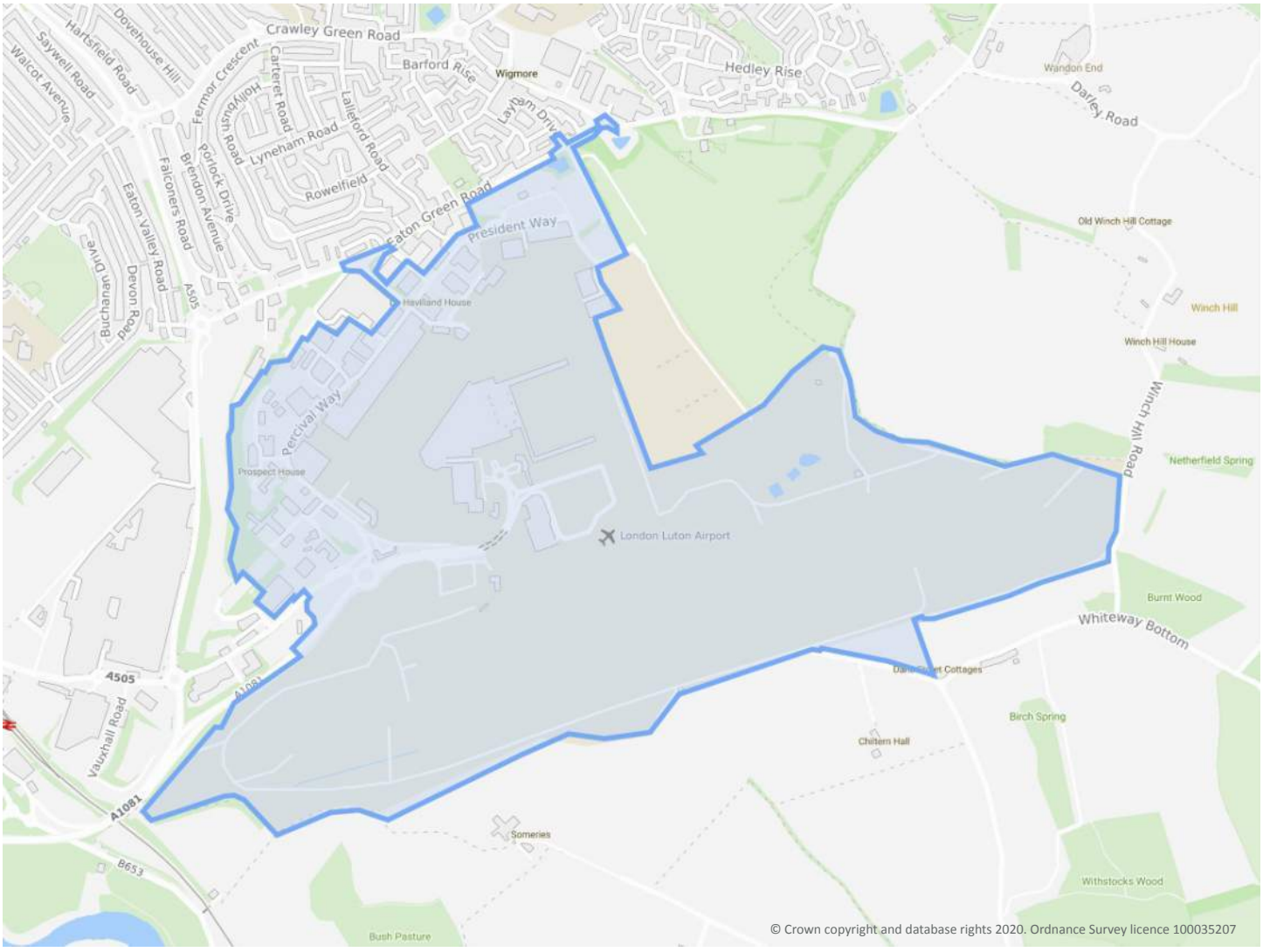
Client: Ove Arup & Partners International Ltd

Site Details

Location: 511962 221310

Area: 239.94 ha

Authority: Luton Borough Council, Central Bedfordshire Council, North Hertfordshire District Council



Summary of findings p. 2

OS MasterMap site plan N/A: >10ha

Aerial image p. 8

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info@groundsure.com
08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	43	30	84	39	-
21	1.2	Historical tanks	22	7	19	14	-
23	1.3	Historical energy features	10	4	5	15	-
25	1.4	Historical petrol stations	1	0	2	0	-
25	1.5	Historical garages	0	0	4	0	-
26	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
27	2.1	Historical industrial land uses	61	62	158	54	-
40	2.2	Historical tanks	36	9	32	20	-
43	2.3	Historical energy features	22	13	14	29	-
46	2.4	Historical petrol stations	3	0	2	0	-
47	2.5	Historical garages	0	0	5	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
48	3.1	Active or recent landfill	0	0	0	0	-
48	3.2	Historical landfill (BGS records)	0	0	0	1	-
49	3.3	Historical landfill (LA/mapping records)	4	0	1	0	-
49	3.4	Historical landfill (EA/NRW records)	1	0	0	0	-
50	3.5	Historical waste sites	1	0	1	0	-
50	3.6	Licensed waste sites	5	1	0	0	-
52	3.7	Waste exemptions	3	1	2	4	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
54	4.1	Recent industrial land uses	77	15	37	-	-
62	4.2	Current or recent petrol stations	1	0	2	0	-
62	4.3	Electricity cables	0	0	0	0	-
63	4.4	Gas pipelines	0	0	0	0	-
63	4.5	Sites determined as Contaminated Land	0	0	0	0	-

63	4.6	Control of Major Accident Hazards (COMAH)	1	0	0	0	-
63	4.7	Regulated explosive sites	1	0	0	0	-
64	4.8	Hazardous substance storage/usage	1	1	1	0	-
64	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
64	4.10	Licensed industrial activities (Part A(1))	1	0	0	0	-
65	4.11	Licensed pollutant release (Part A(2)/B)	4	0	5	1	-
66	4.12	Radioactive Substance Authorisations	0	0	0	0	-
66	4.13	Licensed Discharges to controlled waters	12	2	1	7	-
70	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
70	4.15	Pollutant release to public sewer	0	0	0	0	-
70	4.16	List 1 Dangerous Substances	0	0	3	0	-
70	4.17	List 2 Dangerous Substances	0	0	0	0	-
71	4.18	Pollution Incidents (EA/NRW)	2	0	5	4	-
72	4.19	Pollution inventory substances	0	0	0	0	-
72	4.20	Pollution inventory waste transfers	0	0	0	0	-
72	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
74	5.1	Superficial aquifer	Identified (within 500m)				
76	5.2	Bedrock aquifer	Identified (within 500m)				
78	5.3	Groundwater vulnerability	Identified (within 50m)				
83	5.4	Groundwater vulnerability- soluble rock risk	Identified (within 0m)				
84	5.5	Groundwater vulnerability- local information	None (within 0m)				
85	5.6	Groundwater abstractions	0	0	0	8	10
90	5.7	Surface water abstractions	0	0	0	0	0
90	5.8	Potable abstractions	0	0	0	0	3
91	5.9	Source Protection Zones	1	0	1	0	-
91	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
92	6.1	Water Network (OS MasterMap)	7	0	1	-	-

93	6.2	Surface water features	1	1	1	-	-
93	6.3	WFD Surface water body catchments	3	-	-	-	-
94	6.4	WFD Surface water bodies	0	0	0	-	-
95	6.5	WFD Groundwater bodies	1	-	-	-	-

Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
96	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
96	7.2	Historical Flood Events	0	0	0	-	-
96	7.3	Flood Defences	0	0	0	-	-
96	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
97	7.5	Flood Storage Areas	0	0	0	-	-
98	7.6	Flood Zone 2	None (within 50m)				
98	7.7	Flood Zone 3	None (within 50m)				

Page	Section	Surface water flooding	
99	8.1	Surface water flooding	1 in 30 year, Greater than 1.0m (within 50m)

Page	Section	Groundwater flooding	
101	9.1	Groundwater flooding	Low (within 50m)

Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
102	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
103	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
103	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
103	10.4	Special Protection Areas (SPA)	0	0	0	0	0
103	10.5	National Nature Reserves (NNR)	0	0	0	0	0
104	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
104	10.7	Designated Ancient Woodland	0	1	0	0	17
105	10.8	Biosphere Reserves	0	0	0	0	0
105	10.9	Forest Parks	0	0	0	0	0
105	10.10	Marine Conservation Zones	0	0	0	0	0
105	10.11	Green Belt	4	0	0	0	1
106	10.12	Proposed Ramsar sites	0	0	0	0	0

106	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
106	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
107	10.15	Nitrate Sensitive Areas	0	0	0	0	0
107	**10.16**	**Nitrate Vulnerable Zones**	2	0	0	2	0
108	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
109	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
110	11.1	World Heritage Sites	0	0	0	-	-
111	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
111	11.3	National Parks	0	0	0	-	-
111	11.4	Listed Buildings	0	0	0	-	-
111	11.5	Conservation Areas	0	0	0	-	-
112	**11.6**	**Scheduled Ancient Monuments**	0	0	1	-	-
112	**11.7**	**Registered Parks and Gardens**	0	0	1	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
113	**12.1**	**Agricultural Land Classification**	Grade 3a (within 250m)				
115	12.2	Open Access Land	0	0	0	-	-
116	12.3	Tree Felling Licences	0	0	0	-	-
116	**12.4**	**Environmental Stewardship Schemes**	1	1	1	-	-
116	**12.5**	**Countryside Stewardship Schemes**	0	1	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
117	**13.1**	**Priority Habitat Inventory**	4	6	18	-	-
119	**13.2**	**Habitat Networks**	2	5	0	-	-
119	13.3	Open Mosaic Habitat	0	0	0	-	-
119	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
121	**14.1**	**10k Availability**	Identified (within 500m)				
122	**14.2**	**Artificial and made ground (10k)**	3	1	4	3	-
124	**14.3**	**Superficial geology (10k)**	7	0	2	6	-

125	14.4	Landslip (10k)	0	0	0	0	-
126	**14.5**	**Bedrock geology (10k)**	5	0	3	0	-
127	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
128	**15.1**	**50k Availability**	Identified (within 500m)				
129	**15.2**	**Artificial and made ground (50k)**	2	1	3	3	-
130	**15.3**	**Artificial ground permeability (50k)**	2	0	-	-	-
131	**15.4**	**Superficial geology (50k)**	3	1	2	5	-
132	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
132	15.6	Landslip (50k)	0	0	0	0	-
133	15.7	Landslip permeability (50k)	None (within 50m)				
134	**15.8**	**Bedrock geology (50k)**	9	3	2	4	-
135	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
136	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
137	**16.1**	**BGS Boreholes**	22	14	32	-	-
Page	Section	Natural ground subsidence					
141	**17.1**	**Shrink swell clays**	Low (within 50m)				
143	**17.2**	**Running sands**	Very low (within 50m)				
145	**17.3**	**Compressible deposits**	Very low (within 50m)				
147	**17.4**	**Collapsible deposits**	Very low (within 50m)				
148	**17.5**	**Landslides**	Low (within 50m)				
150	**17.6**	**Ground dissolution of soluble rocks**	Moderate (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
152	**18.1**	**Natural cavities**	0	1	2	0	-
153	**18.2**	**BritPits**	2	1	2	1	-
154	**18.3**	**Surface ground workings**	32	50	123	-	-
162	**18.4**	**Underground workings**	2	0	0	0	0
162	18.5	Historical Mineral Planning Areas	0	0	0	0	-

163	**18.6**	**Non-coal mining**	1	0	1	2	4
164	18.7	Mining cavities	0	0	0	0	0
164	18.8	JPB mining areas	None (within 0m)				
164	18.9	Coal mining	None (within 0m)				
164	18.10	Brine areas	None (within 0m)				
164	18.11	Gypsum areas	None (within 0m)				
165	18.12	Tin mining	None (within 0m)				
165	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
166	**19.1**	**Radon**	Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
167	**20.1**	**BGS Estimated Background Soil Chemistry**	69	21	-	-	-
172	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
172	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
173	21.1	Underground railways (London)	0	0	0	-	-
173	21.2	Underground railways (Non-London)	0	0	0	-	-
174	21.3	Railway tunnels	0	0	0	-	-
174	**21.4**	**Historical railway and tunnel features**	1	1	1	-	-
174	21.5	Royal Mail tunnels	0	0	0	-	-
174	**21.6**	**Historical railways**	0	0	1	-	-
175	**21.7**	**Railways**	0	0	10	-	-
175	21.8	Crossrail 1	0	0	0	0	-
176	21.9	Crossrail 2	0	0	0	0	-
176	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 14/09/2019

Site Area: 239.94ha

Recent site history - 2016 aerial photograph

Capture Date: 23/07/2016

Site Area: 239.94ha

Recent site history - 2014 aerial photograph

Capture Date: 01/06/2014

Site Area: 239.94ha

Recent site history - 2010 aerial photograph

Capture Date: 27/04/2010

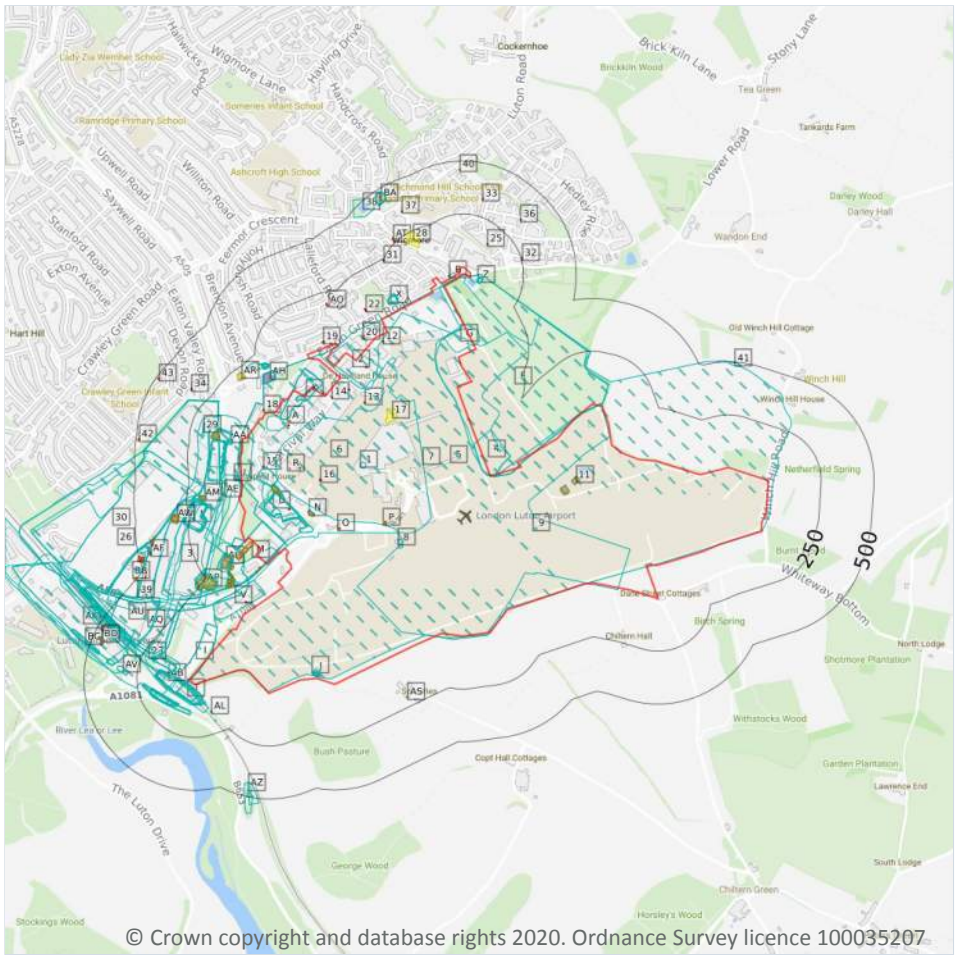
Site Area: 239.94ha

Recent site history - 1999 aerial photograph

Capture Date: 27/05/1999

Site Area: 239.94ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	196

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 13**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Unspecified Tank**	**1991**	**2043969**

ID	Location	Land use	Dates present	Group ID
2	On site	Engineering Works	1973	2059803
3	On site	Abandoned Airfield	1938	2064746
4	On site	Refuse Heap	1951	2072758
5	On site	Airport	1985 - 1991	2075273
6	On site	Airport	1973	2080536
7	On site	Airport	1951	2088346
8	On site	Fire Station	1985 - 1991	2094223
9	On site	Unspecified Tank	1925 - 1947	2122926
B	On site	Police Station	1985	2059684
C	On site	Unspecified Ground Workings	1973	2060168
D	On site	Infectious Disease Hospital	1938	2062131
D	On site	Infectious Diseases Hospital	1947 - 1951	2068392
D	On site	Infectious Diseases Hospital	1938	2075790
D	On site	Infectious Diseases Hospital	1900	2078238
D	On site	Infectious Diseases Hospital	1922 - 1938	2097497
D	On site	Infectious Diseases Hospital	1922	2101615
E	On site	Unspecified Tanks	1985	2064063
E	On site	Unspecified Tanks	1973	2098903
E	On site	Unspecified Tanks	1991	2106818
F	On site	Unspecified Workings	1985 - 1991	2068404
F	On site	Refuse Heap	1973	2110727
G	On site	Unspecified Pit	1985 - 1991	2070559
H	On site	Unspecified Ground Workings	1985	2071001
H	On site	Unspecified Ground Workings	1973	2111956
I	On site	Cuttings	1991	2073163
I	On site	Cuttings	1985	2087120
J	On site	Unspecified Heap	1938	2053774
J	On site	Old Chalk Pit	1879	2080578

ID	Location	Land use	Dates present	Group ID
J	**On site**	**Unspecified Pit**	**1900**	**2083045**
J	**On site**	**Unspecified Pit**	**1922**	**2098654**
J	**On site**	**Unspecified Pit**	**1951**	**2104244**
J	**On site**	**Old Chalk Pit**	**1888**	**2118934**
K	**On site**	**Clay Pit**	**1888**	**2083056**
K	**On site**	**Brick and Tile Works**	**1879**	**2088412**
K	**On site**	**Brick and Tile Works**	**1888**	**2094653**
K	**On site**	**Clay Pit**	**1879**	**2114431**
L	**On site**	**Sewage Farm**	**1938 - 1947**	**2084233**
L	**On site**	**Sewage Farm**	**1922**	**2093019**
L	**On site**	**Sewage Farm**	**1922**	**2109430**
M	**On site**	**Unspecified Works**	**1985 - 1991**	**2089492**
M	**On site**	**Unspecified Works**	**1973**	**2118614**
N	**On site**	**Unspecified Tanks**	**1991**	**2054886**
M	1m W	Unspecified Heap	1973	2066098
M	1m W	Unspecified Heap	1985 - 1991	2067363
T	14m SW	Cuttings	1985	2107800
U	17m W	Sludge Pit	1922 - 1947	2108290
T	17m SW	Cuttings	1991	2103087
T	19m SW	Cuttings	1951 - 1973	2084869
T	19m SW	Cuttings	1938	2112047
V	23m NW	Unspecified Depot	1985 - 1991	2094910
U	25m W	Unspecified Tank	1951	2043968
T	27m SW	Cuttings	1922 - 1947	2114640
T	29m SW	Cuttings	1900	2092346
W	29m N	Brick Kiln	1879	2071652
X	30m NW	Unspecified Pit	1938	2096741
T	30m SW	Cuttings	1888	2096491

ID	Location	Land use	Dates present	Group ID
X	32m NW	Unspecified Pit	1951	2113728
W	32m N	Brick Kiln	1888	2084142
X	32m NW	Unspecified Pit	1922 - 1947	2085982
X	33m NW	Unspecified Pit	1922 - 1938	2113013
Z	37m SE	Unspecified Pit	1951	2095864
Z	37m E	Old Gravel Pit	1888 - 1899	2113794
Z	37m SE	Unspecified Pit	1925	2101612
Z	37m SE	Unspecified Pit	1925 - 1947	2080471
Z	37m SE	Old Gravel Pit	1879	2090210
T	38m SW	Cuttings	1879	2098570
W	38m NW	Lime Kiln	1888	2122497
Z	39m SE	Old Gravel Pit	1899	2067460
AA	44m W	Pumping Station	1938	2069073
AA	46m W	Pumping Station	1922 - 1947	2075017
21	47m SW	Sewage Farm	1900	2116806
AA	47m W	Pumping Station	1922 - 1938	2101396
AB	53m W	Cuttings	1985 - 1991	2104337
L	59m W	Corporation Sewage Farm	1938	2045690
W	63m NW	Lime Kiln	1879	2058745
AC	68m NW	Miniature Rifle Range	1951	2104706
AD	70m W	Unspecified Ground Workings	1938	2088042
AD	73m W	Unspecified Ground Workings	1922 - 1938	2088787
AD	73m W	Filter Beds	1922 - 1938	2080653
AD	73m W	Filter Beds	1947	2078230
AE	73m W	Sedimentation Tanks	1922 - 1938	2085977
AE	73m W	Sedimentation Tanks	1922 - 1947	2084558
AE	74m W	Sedimentation Tanks	1938	2065981
AD	76m W	Filter Beds	1938	2099566

ID	Location	Land use	Dates present	Group ID
AD	78m W	Filter Beds	1922 - 1938	2082499
AF	78m W	Unspecified Works	1985 - 1991	2105491
AC	80m NW	Miniature Rifle Range	1938	2096611
AC	83m NW	Miniature Rifle Range	1922	2073227
AC	83m NW	Miniature Rifle Range	1922 - 1947	2120258
23	87m NW	Rifle Range	1900	2056225
AG	89m SW	Unspecified Ground Workings	1938	2060170
AF	92m W	Unspecified Works	1951	2079517
AF	92m W	Unspecified Works	1973	2087247
AG	95m SW	Sewage Tanks	1922 - 1947	2072185
AG	95m SW	Sewage Tanks	1938	2106808
AG	100m SW	Unspecified Heap	1973	2053772
AH	100m NW	Garage	1973	2070405
AH	100m NW	Garage	1985 - 1991	2075234
AI	105m W	Sedimentation Tanks	1922 - 1938	2071843
AG	105m SW	Sewage Tanks	1922 - 1938	2078192
AI	108m W	Sedimentation Tanks	1938	2072716
AB	110m W	Cuttings	1900	2095737
AI	110m W	Unspecified Tank	1938 - 1947	2103766
AI	111m W	Sedimentation Tanks	1922	2091535
AJ	118m SW	Cuttings	1888	2088369
AJ	118m SW	Cuttings	1922 - 1947	2092392
AK	119m SW	Unspecified Commercial/Industrial	1951	2058219
AI	120m W	Unspecified Tank	1938 - 1947	2101497
AI	120m W	Sedimentation Tanks	1922	2100690
AG	121m SW	Sewage Tanks	1922 - 1938	2098412
AJ	121m S	Cuttings	1951	2111738
AJ	123m SW	Cuttings	1922	2108742

ID	Location	Land use	Dates present	Group ID
L	124m W	Unspecified Ground Workings	1938	2065991
24	125m SW	Cuttings	1879	2104943
L	127m W	Unspecified Ground Workings	1922 - 1938	2102029
AJ	129m SW	Cuttings	1879	2066819
AI	133m W	Unspecified Tank	1938 - 1947	2077769
AI	134m W	Sedimentation Tanks	1922	2119131
AJ	135m SW	Cuttings	1973	2115150
AG	139m NW	Unspecified Tanks	1985 - 1991	2105220
AG	139m NW	Unspecified Tanks	1973	2116020
AJ	140m SW	Cuttings	1900	2105480
AG	141m SW	Sewage Tanks	1922 - 1938	2078191
AL	143m S	Railway Building	1922 - 1947	2108495
AG	152m SW	Sewage Tanks	1922	2113279
AG	152m SW	Sewage Tanks	1947	2116856
AG	152m SW	Sewage Tanks	1900	2099425
AG	153m SW	Sewage Tanks	1938	2079173
L	153m W	Filter Beds	1922 - 1947	2065942
AM	158m W	Sedimentation Tanks	1922 - 1938	2085117
AN	159m NW	Old Chalk Pit	1888	2103516
L	160m W	Unspecified Tanks	1938	2100856
AN	160m NW	Old Chalk Pit	1879	2105620
26	161m W	Motor Works	1938	2101981
AN	161m NW	Unspecified Ground Workings	1985 - 1991	2066885
L	162m W	Unspecified Tanks	1922 - 1938	2066595
AM	162m W	Sedimentation Tanks	1922 - 1947	2094616
27	162m W	Motor Works	1947	2121998
AN	163m NW	Unspecified Ground Workings	1900 - 1922	2084964
AN	163m NW	Unspecified Pit	1938	2068714

ID	Location	Land use	Dates present	Group ID
AM	164m W	Unspecified Tanks	1938	2054889
AN	165m NW	Unspecified Ground Workings	1947	2104418
AN	166m NW	Unspecified Pit	1951	2063847
AP	181m NW	Sewage Tanks	1922 - 1947	2083084
AM	183m W	Sedimentation Tanks	1938	2102060
AM	184m W	Sedimentation Tanks	1922	2065051
AM	184m W	Sedimentation Tanks	1947	2080209
29	184m W	Sedimentation Tanks	1947	2042551
AL	190m S	Railway Building	1879	2051321
AP	192m NW	Unspecified Ground Workings	1938	2060169
AQ	192m NW	Motor Car Engineering Works	1947	2079413
AP	196m NW	Sewage Tanks	1922 - 1938	2069427
AP	197m NW	Sewage Tanks	1922 - 1938	2120043
30	206m W	Motor Works	1938	2077847
AP	206m NW	Sewage Tanks	1938	2094555
AP	237m NW	Sewage Tanks	1922 - 1938	2073187
AK	275m W	Sewage Farm	1900	2045655
AU	290m NW	Motor Car Engineering Works	1922	2095477
AQ	290m NW	Motor Cars Engineering Works	1922	2084716
AU	292m NW	Unspecified Commercial/Industrial	1938	2058218
AV	293m W	Unspecified Heap	1973	2066976
AV	293m W	Unspecified Heap	1985	2119357
AW	299m W	Unspecified Tanks	1973	2094486
AW	299m W	Unspecified Tanks	1985 - 1991	2095684
AK	319m NW	Unspecified Works	1973	2065494
AK	319m NW	Unspecified Works	1985 - 1991	2093688
AX	332m NW	Railway Sidings	1973	2099080
35	336m NW	Railway Sidings	1951 - 1959	2065416

ID	Location	Land use	Dates present	Group ID
AY	362m W	Unspecified Heap	1973	2071788
AY	362m W	Unspecified Heap	1985	2100520
AX	368m NW	Railway Sidings	1938	2064344
AX	375m NW	Railway Sidings	1922	2074039
AX	375m NW	Railway Sidings	1947	2084919
AX	376m NW	Railway Sidings	1922	2072499
AX	376m NW	Railway Sidings	1938	2082745
AX	376m NW	Railway Sidings	1922	2095293
AX	376m NW	Railway Sidings	1938	2099393
AX	383m NW	Railway Sidings	1938	2072077
AZ	431m S	Unspecified Heap	1973	2053771
BA	432m NW	Unspecified Pit	1922 - 1951	2093738
AZ	433m S	Cuttings	1899	2061367
BA	435m NW	Old Chalk Pit	1900	2043486
38	435m NW	Filter Bed	1973	2056049
BB	436m NW	Hydraulic Engineering Works	1922	2049650
BA	438m NW	Unspecified Pit	1938	2113035
39	439m NW	Unspecified Ground Workings	1922	2110873
AF	440m W	Unspecified Ground Workings	1938	2070154
AF	441m W	Unspecified Ground Workings	1922	2066513
BC	443m W	Cuttings	1879	2067214
BD	445m NW	Unspecified Tanks	1985	2102144
BD	445m NW	Unspecified Tanks	1973	2117407
BC	445m W	Cuttings	1888	2085602
AX	465m NW	Hydraulic Engineering Works	1922	2086297
41	481m N	Unspecified Quarry	1925 - 1947	2074250
AZ	495m S	Unspecified Heap	1973	2053773

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	62

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 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 13**

ID	Location	Land use	Dates present	Group ID
10	On site	Unspecified Tank	1993	354399
11	On site	Unspecified Tank	1993	350239
12	On site	Tanks	1967	348011
A	On site	Unspecified Tank	1993	351686
A	On site	Unspecified Tank	1979	358270
A	On site	Unspecified Tank	1979 - 1993	358483
A	On site	Unspecified Tank	1979 - 1990	358503
A	On site	Unspecified Tank	1990	358737
C	On site	Unspecified Tank	1979 - 1993	356973
E	On site	Tanks	1976 - 1993	351231
G	On site	Unspecified Tank	1990	343023
G	On site	Unspecified Tank	1993	350223
N	On site	Tanks	1993	348041
N	On site	Unspecified Tank	1993	355400
N	On site	Unspecified Tank	1996	357020
O	On site	Tanks	1993	348040
O	On site	Septic Tanks	1968 - 1981	356668
P	On site	Tanks	1993	348039
P	On site	Septic Tanks	1968 - 1981	353741
Q	On site	Unspecified Tank	1981	343024
Q	On site	Tanks	1967	348012

ID	Location	Land use	Dates present	Group ID
R	**On site**	**Unspecified Tank**	**1993**	**343081**
M	10m SW	Tanks	1993	351704
M	19m SW	Tanks	1984	355530
M	24m S	Tanks	1993	356552
Y	32m SW	Tanks	1974 - 1984	353951
Y	38m SW	Unspecified Tank	1993	343088
20	38m NW	Unspecified Tank	1967 - 1981	356617
M	43m S	Tanks	1984	355756
M	55m SW	Tanks	1993	354382
Y	56m SW	Tanks	1974 - 1993	355198
M	70m S	Tanks	1984	357672
AG	99m SW	Sewage Tanks	1901 - 1924	349675
AI	105m W	Sedimentation Tanks	1924	347538
AH	118m NW	Unspecified Tank	1979	343079
AG	119m SW	Sewage Tanks	1901 - 1924	349905
AG	138m NW	Tanks	1962 - 1993	357771
AG	139m NW	Unspecified Tank	1971	343084
AG	145m NW	Unspecified Tank	1971	343082
AG	149m SW	Sewage Tanks	1901 - 1924	349772
AG	153m SW	Tanks	1962 - 1993	351946
AG	154m SW	Unspecified Tank	1971	343085
AM	158m W	Sedimentation Tanks	1924	347537
AG	162m NW	Unspecified Tank	1971	343083
AP	192m NW	Sewage Tanks	1901 - 1924	354602
AS	203m SE	Unspecified Tank	1993	354641
AS	205m SE	Unspecified Tank	1971	358202
32	248m E	Tanks	1971	348010
AW	297m W	Unspecified Tank	1962 - 1993	354394

ID	Location	Land use	Dates present	Group ID
AW	298m W	Tanks	1961 - 1975	355038
AW	301m W	Unspecified Tank	1962 - 1993	352116
AW	315m W	Unspecified Tank	1962 - 1993	351014
AW	321m W	Unspecified Tank	1962 - 1993	356365
AF	409m W	Unspecified Tank	1986 - 1996	353962
BD	445m NW	Unspecified Tank	1984	343179
BD	450m NW	Unspecified Tank	1984	343177
BD	463m NW	Unspecified Tank	1968	349887
BD	463m NW	Unspecified Tank	1984	350460
BD	463m NW	Unspecified Tank	1984	357529
BB	473m NW	Unspecified Tank	1996	343066
BB	480m NW	Unspecified Tank	1996	343067
BB	496m NW	Unspecified Tank	1996	343065

This data is sourced from Ordnance Survey / Groundsure.

1.3 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, 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 13**

ID	Location	Land use	Dates present	Group ID
13	**On site**	**Electricity Substation**	**1967**	**224981**
14	**On site**	**Electricity Substation**	**1994**	**224982**
15	**On site**	**Electricity Substation**	**1993**	**224990**
16	**On site**	**Electricity Substation**	**1973 - 1996**	**230295**
A	**On site**	**Electricity Substation**	**1979 - 1993**	**238313**

ID	Location	Land use	Dates present	Group ID
D	**On site**	**Electricity Substation**	**1976 - 1993**	**232415**
Q	**On site**	**Electricity Substation**	**1987 - 1994**	**238613**
R	**On site**	**Electricity Substation**	**1993**	**224991**
S	**On site**	**Electricity Substation**	**1967 - 1994**	**232755**
S	**On site**	**Electricity Substation**	**1981 - 1991**	**238501**
B	7m NW	Electricity Substation	1989 - 1993	232399
18	14m NW	Electricity Substation	1979 - 1993	232053
19	25m N	Electricity Substation	1967 - 1994	231580
V	41m NW	Electricity Substation	1984 - 1993	238409
22	81m NW	Electricity Substation	1985 - 1993	233982
25	153m NE	Electricity Substation	1989 - 1993	237673
AO	180m N	Electricity Substation	1993	236391
AO	189m N	Electricity Substation	1985	224979
31	240m NW	Electricity Substation	1982 - 1993	233395
AT	265m NW	Gas Governor	1985	239621
AT	266m NW	Gas Governor	1993	233437
33	330m N	Electricity Substation	1994 - 1996	231601
34	332m NW	Electricity Substation	1974 - 1993	239862
36	344m NE	Electricity Substation	1989	224980
37	351m NW	Electricity Substation	1984 - 1990	234081
AF	419m W	Electricity Substation	1986 - 1996	236886
AF	438m W	Electricity Substation	1986 - 1996	239344
40	457m N	Electricity Substation	1994 - 1996	231356
BB	470m NW	Electricity Substation	1996	224992
AF	477m W	Electricity Substation	1996	238963
AF	478m W	Electricity Substation	1986 - 1996	229123
42	482m W	Electricity Substation	1975 - 1993	239690
43	484m NW	Electricity Substation	1974 - 1993	235381

ID	Location	Land use	Dates present	Group ID
AF	491m W	Electricity Substation	1986 - 1996	230952

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m **3**

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 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 13**

ID	Location	Land use	Dates present	Group ID
17	**On site**	**Filling Station**	**1981 - 1991**	**4034**
28	164m NW	Filling Station	1984	3829
AR	198m NW	Filling Station	1979	3831

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m **4**

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 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 13**

ID	Location	Land use	Dates present	Group ID
AH	100m NW	Garage	1979	70067
AH	101m NW	Garage	1962 - 1967	72251
AH	101m NW	Garage	1962	70324
AR	195m NW	Garage	1967	69243

This data is sourced from Ordnance Survey / Groundsure.

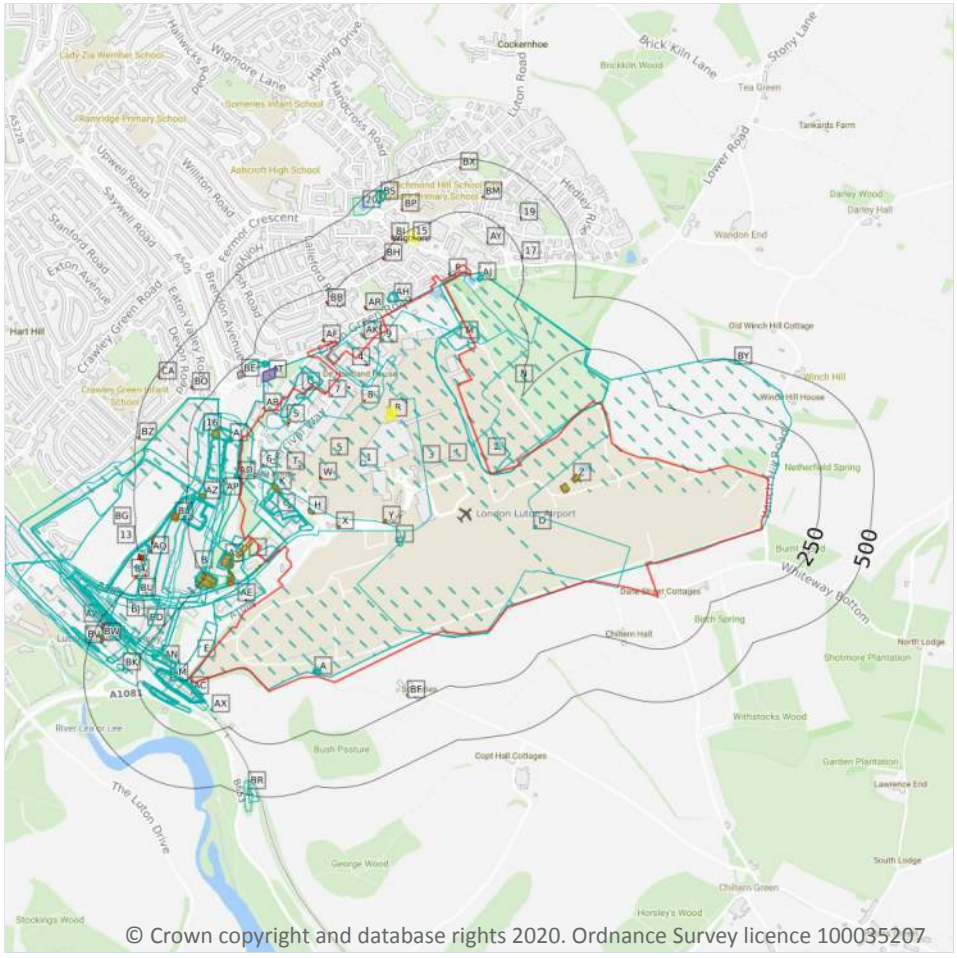
1.6 Historical military land

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



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Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

2.1 Historical industrial land uses

Records within 500m	335

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 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 27**

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Tank	1991	2043969
2	On site	Refuse Heap	1951	2072758
3	On site	Airport	1951	2088346

ID	Location	Land Use	Date	Group ID
4	On site	Engineering Works	1973	2059803
5	On site	Airport	1973	2080536
A	On site	Unspecified Pit	1900	2083045
A	On site	Unspecified Heap	1938	2053774
A	On site	Unspecified Pit	1922	2098654
A	On site	Old Chalk Pit	1888	2118934
A	On site	Unspecified Pit	1922	2098654
A	On site	Old Chalk Pit	1888	2118934
A	On site	Unspecified Pit	1951	2104244
A	On site	Old Chalk Pit	1879	2080578
B	On site	Sewage Farm	1922	2109430
B	On site	Sewage Farm	1947	2084233
B	On site	Sewage Farm	1938	2084233
B	On site	Sewage Farm	1922	2093019
B	On site	Sewage Farm	1922	2093019
C	On site	Infectious Diseases Hospital	1947	2068392
C	On site	Infectious Diseases Hospital	1922	2101615
C	On site	Infectious Diseases Hospital	1900	2078238
C	On site	Infectious Disease Hospital	1938	2062131
C	On site	Infectious Diseases Hospital	1938	2075790
C	On site	Infectious Diseases Hospital	1922	2097497
C	On site	Infectious Diseases Hospital	1938	2075790
C	On site	Infectious Diseases Hospital	1922	2097497
C	On site	Infectious Diseases Hospital	1951	2068392
C	On site	Infectious Diseases Hospital	1938	2097497
D	On site	Unspecified Tank	1947	2122926
D	On site	Unspecified Tank	1925	2122926
E	On site	Cuttings	1991	2073163

ID	Location	Land Use	Date	Group ID
E	On site	Cuttings	1985	2087120
F	On site	Abandoned Airfield	1938	2064746
F	On site	Abandoned Airfield	1938	2064746
G	On site	Brick and Tile Works	1888	2094653
G	On site	Clay Pit	1888	2083056
G	On site	Brick and Tile Works	1888	2094653
G	On site	Clay Pit	1888	2083056
G	On site	Brick and Tile Works	1879	2088412
G	On site	Clay Pit	1879	2114431
G	On site	Brick and Tile Works	1879	2088412
H	On site	Unspecified Tanks	1991	2054886
I	On site	Unspecified Works	1991	2089492
I	On site	Unspecified Works	1985	2089492
I	On site	Unspecified Works	1973	2118614
J	On site	Fire Station	1991	2094223
J	On site	Fire Station	1985	2094223
K	On site	Unspecified Tanks	1991	2106818
K	On site	Unspecified Tanks	1985	2064063
K	On site	Unspecified Tanks	1973	2098903
L	On site	Airport	1991	2075273
L	On site	Airport	1985	2075273
M	On site	Unspecified Pit	1991	2070559
M	On site	Unspecified Pit	1985	2070559
N	On site	Unspecified Workings	1991	2068404
N	On site	Unspecified Workings	1985	2068404
N	On site	Refuse Heap	1973	2110727
O	On site	Unspecified Ground Workings	1985	2071001
O	On site	Unspecified Ground Workings	1973	2111956

ID	Location	Land Use	Date	Group ID
P	**On site**	**Police Station**	**1985**	**2059684**
Q	**On site**	**Unspecified Ground Workings**	**1973**	**2060168**
I	1m W	Unspecified Heap	1991	2067363
I	1m W	Unspecified Heap	1985	2067363
I	1m W	Unspecified Heap	1973	2066098
AC	14m SW	Cuttings	1985	2107800
AD	17m W	Sludge Pit	1938	2108290
AC	17m SW	Cuttings	1991	2103087
AD	18m W	Sludge Pit	1938	2108290
AD	19m W	Sludge Pit	1947	2108290
AD	19m W	Sludge Pit	1922	2108290
AD	19m W	Sludge Pit	1938	2108290
AD	19m W	Sludge Pit	1922	2108290
AD	19m W	Sludge Pit	1938	2108290
AD	19m W	Sludge Pit	1922	2108290
AC	19m SW	Cuttings	1973	2084869
AC	19m SW	Cuttings	1938	2112047
AE	23m NW	Unspecified Depot	1991	2094910
AE	23m NW	Unspecified Depot	1985	2094910
AD	25m W	Unspecified Tank	1951	2043968
AC	27m SW	Cuttings	1938	2114640
AC	27m SW	Cuttings	1922	2114640
AC	27m SW	Cuttings	1938	2114640
AC	27m SW	Cuttings	1922	2114640
AC	27m SW	Cuttings	1947	2114640
AC	27m SW	Cuttings	1922	2114640
AC	29m SW	Cuttings	1900	2092346
AG	29m N	Brick Kiln	1879	2071652

ID	Location	Land Use	Date	Group ID
AG	29m N	Brick Kiln	1879	2071652
AH	30m NW	Unspecified Pit	1938	2096741
AC	30m SW	Cuttings	1888	2096491
AC	30m SW	Cuttings	1888	2096491
AC	30m SW	Cuttings	1938	2114640
AH	32m NW	Unspecified Pit	1951	2113728
AG	32m N	Brick Kiln	1888	2084142
AG	32m N	Brick Kiln	1888	2084142
AH	32m NW	Unspecified Pit	1947	2085982
AH	32m NW	Unspecified Pit	1922	2085982
AH	33m NW	Unspecified Pit	1938	2085982
AH	33m NW	Unspecified Pit	1938	2113013
AH	33m NW	Unspecified Pit	1922	2113013
AH	33m NW	Unspecified Pit	1938	2113013
AH	33m NW	Unspecified Pit	1922	2113013
AC	33m SW	Cuttings	1951	2084869
AJ	37m SE	Unspecified Pit	1951	2095864
AJ	37m E	Old Gravel Pit	1888	2113794
AJ	37m SE	Unspecified Pit	1925	2101612
AJ	37m SE	Unspecified Pit	1947	2080471
AJ	37m SE	Unspecified Pit	1925	2080471
AJ	37m SE	Old Gravel Pit	1899	2113794
AJ	37m SE	Old Gravel Pit	1879	2090210
AC	38m SW	Cuttings	1879	2098570
AG	38m NW	Lime Kiln	1888	2122497
AG	38m NW	Lime Kiln	1888	2122497
AJ	39m SE	Old Gravel Pit	1899	2067460
AL	44m W	Pumping Station	1938	2069073

ID	Location	Land Use	Date	Group ID
AL	46m W	Pumping Station	1938	2075017
AL	47m W	Pumping Station	1947	2075017
AL	47m W	Pumping Station	1922	2075017
10	47m SW	Sewage Farm	1900	2116806
AL	47m W	Pumping Station	1938	2101396
AL	47m W	Pumping Station	1922	2101396
AL	47m W	Pumping Station	1938	2101396
AL	47m W	Pumping Station	1922	2101396
AM	53m W	Cuttings	1985	2104337
B	59m W	Corporation Sewage Farm	1938	2045690
AG	63m NW	Lime Kiln	1879	2058745
AN	68m NW	Miniature Rifle Range	1951	2104706
AM	69m W	Cuttings	1991	2104337
AO	70m W	Unspecified Ground Workings	1938	2088042
AO	73m W	Unspecified Ground Workings	1938	2088787
AO	73m W	Unspecified Ground Workings	1922	2088787
AO	73m W	Unspecified Ground Workings	1938	2088787
AO	73m W	Unspecified Ground Workings	1922	2088787
AO	73m W	Filter Beds	1938	2080653
AO	73m W	Filter Beds	1947	2078230
AO	73m W	Filter Beds	1922	2080653
AP	73m W	Sedimentation Tanks	1938	2085977
AP	73m W	Sedimentation Tanks	1922	2085977
AP	73m W	Sedimentation Tanks	1938	2085977
AP	73m W	Sedimentation Tanks	1922	2085977
AP	73m W	Sedimentation Tanks	1938	2084558
AP	74m W	Sedimentation Tanks	1938	2065981
AP	74m W	Sedimentation Tanks	1947	2084558

ID	Location	Land Use	Date	Group ID
AP	74m W	Sedimentation Tanks	1922	2084558
AO	76m W	Filter Beds	1938	2099566
AO	78m W	Filter Beds	1938	2082499
AO	78m W	Filter Beds	1922	2082499
AO	78m W	Filter Beds	1938	2082499
AO	78m W	Filter Beds	1922	2082499
AQ	78m W	Unspecified Works	1991	2105491
AQ	78m W	Unspecified Works	1985	2105491
AN	80m NW	Miniature Rifle Range	1938	2096611
AN	83m NW	Miniature Rifle Range	1938	2120258
AN	83m NW	Miniature Rifle Range	1922	2073227
AN	83m NW	Miniature Rifle Range	1938	2120258
AN	83m NW	Miniature Rifle Range	1922	2073227
AN	86m NW	Miniature Rifle Range	1947	2120258
AN	86m NW	Miniature Rifle Range	1922	2120258
11	87m NW	Rifle Range	1900	2056225
AN	88m NW	Miniature Rifle Range	1938	2120258
AS	89m SW	Unspecified Ground Workings	1938	2060170
AQ	92m W	Unspecified Works	1951	2079517
AQ	92m W	Unspecified Works	1973	2087247
AS	95m SW	Sewage Tanks	1947	2072185
AS	95m SW	Sewage Tanks	1922	2072185
AS	95m SW	Sewage Tanks	1938	2106808
AS	100m SW	Sewage Tanks	1938	2072185
AS	100m SW	Unspecified Heap	1973	2053772
AT	100m NW	Garage	1991	2075234
AT	100m NW	Garage	1985	2075234
AT	100m NW	Garage	1973	2070405

ID	Location	Land Use	Date	Group ID
AU	105m W	Sedimentation Tanks	1938	2071843
AU	105m W	Sedimentation Tanks	1922	2071843
AU	105m W	Sedimentation Tanks	1938	2071843
AU	105m W	Sedimentation Tanks	1922	2071843
AS	105m SW	Sewage Tanks	1938	2078192
AS	105m SW	Sewage Tanks	1922	2078192
AS	105m SW	Sewage Tanks	1938	2078192
AS	105m SW	Sewage Tanks	1922	2078192
AU	108m W	Sedimentation Tanks	1938	2072716
AM	110m W	Cuttings	1900	2095737
AU	110m W	Unspecified Tank	1938	2103766
AU	111m W	Sedimentation Tanks	1922	2091535
AU	111m W	Unspecified Tank	1947	2103766
AV	118m SW	Cuttings	1888	2088369
AV	118m SW	Cuttings	1888	2088369
AV	118m SW	Cuttings	1938	2092392
AW	119m SW	Unspecified Commercial/Industrial	1951	2058219
AU	120m W	Unspecified Tank	1938	2101497
AU	120m W	Sedimentation Tanks	1922	2100690
AU	120m W	Unspecified Tank	1947	2101497
AS	121m SW	Sewage Tanks	1938	2098412
AS	121m SW	Sewage Tanks	1922	2098412
AS	121m SW	Sewage Tanks	1938	2098412
AS	121m SW	Sewage Tanks	1922	2098412
AV	121m S	Cuttings	1951	2111738
AV	121m SW	Cuttings	1947	2092392
AV	121m SW	Cuttings	1922	2092392
AV	123m SW	Cuttings	1922	2108742

ID	Location	Land Use	Date	Group ID
AV	123m SW	Cuttings	1922	2108742
AV	123m SW	Cuttings	1938	2092392
B	124m W	Unspecified Ground Workings	1938	2065991
12	125m SW	Cuttings	1879	2104943
B	127m W	Unspecified Ground Workings	1938	2102029
B	127m W	Unspecified Ground Workings	1922	2102029
B	127m W	Unspecified Ground Workings	1938	2102029
B	127m W	Unspecified Ground Workings	1922	2102029
AV	129m SW	Cuttings	1879	2066819
AU	133m W	Unspecified Tank	1938	2077769
AU	134m W	Sedimentation Tanks	1922	2119131
AU	134m W	Unspecified Tank	1947	2077769
AV	135m SW	Cuttings	1973	2115150
AS	139m NW	Unspecified Tanks	1991	2105220
AS	139m NW	Unspecified Tanks	1985	2105220
AS	139m NW	Unspecified Tanks	1973	2116020
AV	140m SW	Cuttings	1900	2105480
AS	141m SW	Sewage Tanks	1938	2078191
AS	141m SW	Sewage Tanks	1922	2078191
AS	141m SW	Sewage Tanks	1938	2078191
AS	141m SW	Sewage Tanks	1922	2078191
AX	143m S	Railway Building	1947	2108495
AX	143m S	Railway Building	1938	2108495
AX	143m S	Railway Building	1922	2108495
AS	152m SW	Sewage Tanks	1947	2116856
AS	152m SW	Sewage Tanks	1922	2113279
AS	152m SW	Sewage Tanks	1900	2099425
AS	153m SW	Sewage Tanks	1938	2079173

ID	Location	Land Use	Date	Group ID
B	153m W	Filter Beds	1938	2065942
B	154m W	Filter Beds	1947	2065942
B	154m W	Filter Beds	1922	2065942
AZ	158m W	Sedimentation Tanks	1938	2085117
AZ	158m W	Sedimentation Tanks	1922	2085117
AZ	158m W	Sedimentation Tanks	1938	2085117
AZ	158m W	Sedimentation Tanks	1922	2085117
BA	159m NW	Old Chalk Pit	1888	2103516
BA	159m NW	Old Chalk Pit	1888	2103516
B	160m W	Unspecified Tanks	1938	2100856
BA	160m NW	Old Chalk Pit	1879	2105620
13	161m W	Motor Works	1938	2101981
BA	161m NW	Unspecified Ground Workings	1985	2066885
B	162m W	Unspecified Tanks	1938	2066595
B	162m W	Unspecified Tanks	1922	2066595
B	162m W	Unspecified Tanks	1938	2066595
B	162m W	Unspecified Tanks	1922	2066595
AZ	162m W	Sedimentation Tanks	1938	2094616
14	162m W	Motor Works	1947	2121998
BA	163m NW	Unspecified Ground Workings	1900	2084964
BA	163m NW	Unspecified Pit	1938	2068714
AZ	163m W	Sedimentation Tanks	1947	2094616
AZ	163m W	Sedimentation Tanks	1922	2094616
BA	163m NW	Unspecified Ground Workings	1991	2066885
AZ	164m W	Unspecified Tanks	1938	2054889
BA	165m NW	Unspecified Ground Workings	1947	2104418
BA	165m NW	Unspecified Ground Workings	1922	2084964
BA	166m NW	Unspecified Pit	1951	2063847

ID	Location	Land Use	Date	Group ID
BC	181m NW	Sewage Tanks	1938	2083084
AZ	183m W	Sedimentation Tanks	1938	2102060
BC	183m NW	Sewage Tanks	1947	2083084
BC	183m NW	Sewage Tanks	1922	2083084
AZ	184m W	Sedimentation Tanks	1947	2080209
AZ	184m W	Sedimentation Tanks	1922	2065051
16	184m W	Sedimentation Tanks	1947	2042551
AX	190m S	Railway Building	1879	2051321
BC	192m NW	Unspecified Ground Workings	1938	2060169
BD	192m NW	Motor Car Engineering Works	1947	2079413
BC	196m NW	Sewage Tanks	1938	2069427
BC	196m NW	Sewage Tanks	1922	2069427
BC	196m NW	Sewage Tanks	1938	2069427
BC	196m NW	Sewage Tanks	1922	2069427
BC	197m NW	Sewage Tanks	1938	2120043
BC	197m NW	Sewage Tanks	1922	2120043
BC	197m NW	Sewage Tanks	1938	2120043
BC	197m NW	Sewage Tanks	1922	2120043
BC	206m NW	Sewage Tanks	1938	2094555
BG	206m W	Motor Works	1938	2077847
BG	206m W	Motor Works	1938	2077847
BG	208m W	Motor Works	1938	2077847
BC	237m NW	Sewage Tanks	1938	2073187
BC	237m NW	Sewage Tanks	1922	2073187
BC	237m NW	Sewage Tanks	1938	2073187
BC	237m NW	Sewage Tanks	1922	2073187
AW	275m W	Sewage Farm	1900	2045655
BJ	290m NW	Motor Car Engineering Works	1922	2095477

ID	Location	Land Use	Date	Group ID
BD	290m NW	Motor Cars Engineering Works	1922	2084716
BD	290m NW	Motor Cars Engineering Works	1922	2084716
BJ	292m NW	Unspecified Commercial/Industrial	1938	2058218
BK	293m W	Unspecified Heap	1985	2119357
BK	293m W	Unspecified Heap	1973	2066976
BL	299m W	Unspecified Tanks	1991	2095684
BL	299m W	Unspecified Tanks	1985	2095684
BL	299m W	Unspecified Tanks	1973	2094486
AW	319m NW	Unspecified Works	1991	2093688
AW	319m NW	Unspecified Works	1985	2093688
AW	319m NW	Unspecified Works	1973	2065494
BN	332m NW	Railway Sidings	1973	2099080
18	336m NW	Railway Sidings	1951	2065416
BQ	362m W	Unspecified Heap	1985	2100520
BQ	362m W	Unspecified Heap	1973	2071788
BN	368m NW	Railway Sidings	1938	2064344
BN	375m NW	Railway Sidings	1947	2084919
BN	375m NW	Railway Sidings	1922	2074039
BN	376m NW	Railway Sidings	1938	2099393
BN	376m NW	Railway Sidings	1922	2072499
BN	376m NW	Railway Sidings	1938	2082745
BN	376m NW	Railway Sidings	1922	2095293
BN	383m NW	Railway Sidings	1938	2072077
BR	431m S	Unspecified Heap	1973	2053771
BS	432m NW	Unspecified Pit	1951	2093738
BR	433m S	Cuttings	1899	2061367
BS	434m NW	Unspecified Pit	1938	2093738
BS	434m NW	Unspecified Pit	1938	2093738

ID	Location	Land Use	Date	Group ID
BS	434m NW	Unspecified Pit	1922	2093738
BS	434m NW	Unspecified Pit	1938	2093738
BS	434m NW	Unspecified Pit	1922	2093738
BS	435m NW	Unspecified Pit	1947	2093738
BS	435m NW	Unspecified Pit	1922	2093738
BS	435m NW	Old Chalk Pit	1900	2043486
20	435m NW	Filter Bed	1973	2056049
BT	436m NW	Hydraulic Engineering Works	1922	2049650
BS	438m NW	Unspecified Pit	1938	2113035
BU	439m NW	Unspecified Ground Workings	1922	2110873
BU	439m NW	Unspecified Ground Workings	1922	2110873
AQ	440m W	Unspecified Ground Workings	1938	2070154
AQ	441m W	Unspecified Ground Workings	1922	2066513
AQ	441m W	Unspecified Ground Workings	1922	2066513
BV	443m W	Cuttings	1879	2067214
BW	445m NW	Unspecified Tanks	1985	2102144
BW	445m NW	Unspecified Tanks	1973	2117407
BV	445m W	Cuttings	1888	2085602
BV	445m W	Cuttings	1888	2085602
BN	465m NW	Hydraulic Engineering Works	1922	2086297
BN	465m NW	Hydraulic Engineering Works	1922	2086297
BY	481m N	Unspecified Quarry	1947	2074250
BY	481m N	Unspecified Quarry	1925	2074250
BR	495m S	Unspecified Heap	1973	2053773

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	97

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 27**

ID	Location	Land Use	Date	Group ID
9	On site	Tanks	1967	348011
H	On site	Unspecified Tank	1996	357020
H	On site	Unspecified Tank	1993	355400
H	On site	Unspecified Tank	1996	357020
H	On site	Tanks	1993	348041
K	On site	Tanks	1976	351231
K	On site	Tanks	1993	351231
M	On site	Unspecified Tank	1990	343023
M	On site	Unspecified Tank	1993	350223
M	On site	Unspecified Tank	1993	350223
Q	On site	Unspecified Tank	1979	356973
Q	On site	Unspecified Tank	1990	356973
Q	On site	Unspecified Tank	1993	356973
S	On site	Unspecified Tank	1979	358483
S	On site	Unspecified Tank	1979	358270
S	On site	Unspecified Tank	1979	358503
S	On site	Unspecified Tank	1990	358503
S	On site	Unspecified Tank	1990	358483
S	On site	Unspecified Tank	1990	358737
S	On site	Unspecified Tank	1993	351686
S	On site	Unspecified Tank	1993	358483
T	On site	Unspecified Tank	1993	343081
V	On site	Tanks	1967	348012

ID	Location	Land Use	Date	Group ID
V	**On site**	**Unspecified Tank**	**1981**	**343024**
X	**On site**	**Tanks**	**1993**	**348040**
X	**On site**	**Septic Tanks**	**1968**	**356668**
X	**On site**	**Septic Tanks**	**1973**	**356668**
X	**On site**	**Septic Tanks**	**1981**	**356668**
Y	**On site**	**Tanks**	**1993**	**348039**
Y	**On site**	**Septic Tanks**	**1968**	**353741**
Y	**On site**	**Septic Tanks**	**1973**	**353741**
Y	**On site**	**Septic Tanks**	**1981**	**353741**
Z	**On site**	**Unspecified Tank**	**1993**	**350239**
Z	**On site**	**Unspecified Tank**	**1993**	**350239**
AA	**On site**	**Unspecified Tank**	**1993**	**354399**
AA	**On site**	**Unspecified Tank**	**1993**	**354399**
I	10m SW	Tanks	1993	351704
I	19m SW	Tanks	1984	355530
I	24m S	Tanks	1993	356552
AI	32m SW	Tanks	1984	353951
AI	32m SW	Tanks	1974	353951
AI	38m SW	Unspecified Tank	1993	343088
AK	38m NW	Unspecified Tank	1967	356617
AK	39m NW	Unspecified Tank	1981	356617
I	43m S	Tanks	1984	355756
I	55m SW	Tanks	1993	354382
AI	56m SW	Tanks	1984	355198
AI	56m SW	Tanks	1974	355198
AI	57m SW	Tanks	1993	355198
I	70m S	Tanks	1984	357672
AS	99m SW	Sewage Tanks	1901	349675

ID	Location	Land Use	Date	Group ID
AS	99m SW	Sewage Tanks	1924	349675
AU	105m W	Sedimentation Tanks	1924	347538
AT	118m NW	Unspecified Tank	1979	343079
AS	119m SW	Sewage Tanks	1901	349905
AS	119m SW	Sewage Tanks	1924	349905
AS	138m NW	Tanks	1993	357771
AS	139m NW	Tanks	1984	357771
AS	139m NW	Unspecified Tank	1971	343084
AS	140m NW	Tanks	1962	357771
AS	140m NW	Tanks	1974	357771
AS	145m NW	Unspecified Tank	1971	343082
AS	149m SW	Sewage Tanks	1901	349772
AS	149m SW	Sewage Tanks	1924	349772
AS	153m SW	Tanks	1984	351946
AS	154m SW	Tanks	1962	351946
AS	154m SW	Tanks	1974	351946
AS	154m SW	Unspecified Tank	1971	343085
AS	155m SW	Tanks	1993	351946
AZ	158m W	Sedimentation Tanks	1924	347537
AS	162m NW	Unspecified Tank	1971	343083
BC	192m NW	Sewage Tanks	1924	354602
BC	194m NW	Sewage Tanks	1901	354602
BF	203m SE	Unspecified Tank	1993	354641
BF	203m SE	Unspecified Tank	1993	354641
BF	205m SE	Unspecified Tank	1971	358202
17	248m E	Tanks	1971	348010
BL	297m W	Unspecified Tank	1962	354394
BL	298m W	Tanks	1975	355038

ID	Location	Land Use	Date	Group ID
BL	298m W	Tanks	1961	355038
BL	298m W	Unspecified Tank	1993	354394
BL	301m W	Unspecified Tank	1962	352116
BL	302m W	Unspecified Tank	1993	352116
BL	315m W	Unspecified Tank	1962	351014
BL	315m W	Unspecified Tank	1993	351014
BL	321m W	Unspecified Tank	1962	356365
BL	322m W	Unspecified Tank	1993	356365
AQ	409m W	Unspecified Tank	1996	353962
AQ	410m W	Unspecified Tank	1986	353962
BW	445m NW	Unspecified Tank	1984	343179
BW	450m NW	Unspecified Tank	1984	343177
BW	463m NW	Unspecified Tank	1968	349887
BW	463m NW	Unspecified Tank	1984	357529
BW	463m NW	Unspecified Tank	1984	350460
BT	473m NW	Unspecified Tank	1996	343066
BT	480m NW	Unspecified Tank	1996	343067
BT	496m NW	Unspecified Tank	1996	343065

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**78**

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 27**

ID	Location	Land Use	Date	Group ID
6	**On site**	**Electricity Substation**	**1993**	**224990**
7	**On site**	**Electricity Substation**	**1994**	**224982**

ID	Location	Land Use	Date	Group ID
8	**On site**	**Electricity Substation**	**1967**	**224981**
C	**On site**	**Electricity Substation**	**1976**	**232415**
C	**On site**	**Electricity Substation**	**1993**	**232415**
S	**On site**	**Electricity Substation**	**1979**	**238313**
S	**On site**	**Electricity Substation**	**1990**	**238313**
S	**On site**	**Electricity Substation**	**1993**	**238313**
T	**On site**	**Electricity Substation**	**1993**	**224991**
U	**On site**	**Electricity Substation**	**1967**	**232755**
U	**On site**	**Electricity Substation**	**1981**	**238501**
U	**On site**	**Electricity Substation**	**1987**	**238501**
U	**On site**	**Electricity Substation**	**1991**	**238501**
U	**On site**	**Electricity Substation**	**1994**	**232755**
V	**On site**	**Electricity Substation**	**1987**	**238613**
V	**On site**	**Electricity Substation**	**1991**	**238613**
V	**On site**	**Electricity Substation**	**1994**	**238613**
W	**On site**	**Electricity Substation**	**1996**	**230295**
W	**On site**	**Electricity Substation**	**1993**	**230295**
W	**On site**	**Electricity Substation**	**1996**	**230295**
W	**On site**	**Electricity Substation**	**1973**	**230295**
W	**On site**	**Electricity Substation**	**1981**	**230295**
P	7m NW	Electricity Substation	1993	232399
P	8m NW	Electricity Substation	1989	232399
AB	14m NW	Electricity Substation	1993	232053
AB	15m NW	Electricity Substation	1979	232053
AB	15m NW	Electricity Substation	1990	232053
AF	25m N	Electricity Substation	1967	231580
AF	25m N	Electricity Substation	1981	231580
AF	25m N	Electricity Substation	1987	231580

ID	Location	Land Use	Date	Group ID
AF	25m N	Electricity Substation	1991	231580
AF	25m N	Electricity Substation	1987	231580
AF	26m N	Electricity Substation	1994	231580
AE	41m NW	Electricity Substation	1993	238409
AE	41m NW	Electricity Substation	1984	238409
AR	81m NW	Electricity Substation	1993	233982
AR	81m NW	Electricity Substation	1993	233982
AR	82m NW	Electricity Substation	1985	233982
AY	153m NE	Electricity Substation	1993	237673
AY	154m NE	Electricity Substation	1989	237673
BB	180m N	Electricity Substation	1993	236391
BB	180m N	Electricity Substation	1993	236391
BB	189m N	Electricity Substation	1985	224979
BH	240m NW	Electricity Substation	1985	233395
BH	240m NW	Electricity Substation	1993	233395
BH	240m NW	Electricity Substation	1993	233395
BH	241m NW	Electricity Substation	1984	233395
BH	241m NW	Electricity Substation	1982	233395
BH	241m NW	Electricity Substation	1982	233395
BI	265m NW	Gas Governor	1985	239621
BI	266m NW	Gas Governor	1993	233437
BI	266m NW	Gas Governor	1993	233437
BM	330m N	Electricity Substation	1996	231601
BM	330m N	Electricity Substation	1994	231601
BO	332m NW	Electricity Substation	1974	239862
BO	333m NW	Electricity Substation	1993	239862
19	344m NE	Electricity Substation	1989	224980
BP	351m NW	Electricity Substation	1990	234081

ID	Location	Land Use	Date	Group ID
BP	351m NW	Electricity Substation	1984	234081
AQ	419m W	Electricity Substation	1996	236886
AQ	420m W	Electricity Substation	1986	236886
AQ	438m W	Electricity Substation	1996	239344
AQ	439m W	Electricity Substation	1986	239344
BX	457m N	Electricity Substation	1996	231356
BX	457m N	Electricity Substation	1994	231356
BT	470m NW	Electricity Substation	1996	224992
AQ	477m W	Electricity Substation	1996	238963
AQ	478m W	Electricity Substation	1986	229123
BZ	482m W	Electricity Substation	1975	239690
BZ	482m W	Electricity Substation	1993	239690
AQ	483m W	Electricity Substation	1996	229123
AQ	484m W	Electricity Substation	1986	229123
CA	484m NW	Electricity Substation	1993	235381
CA	484m NW	Electricity Substation	1974	235381
AQ	491m W	Electricity Substation	1996	230952
AQ	492m W	Electricity Substation	1986	230952
AQ	496m W	Electricity Substation	1996	230952
AQ	497m W	Electricity Substation	1986	230952

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	**5**

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'.

Features are displayed on the Past land use - un-grouped map on **page 27**

ID	Location	Land Use	Date	Group ID
R	**On site**	**Filling Station**	**1981**	**4034**
R	**On site**	**Filling Station**	**1987**	**4034**
R	**On site**	**Filling Station**	**1991**	**4034**
15	164m NW	Filling Station	1984	3829
BE	198m NW	Filling Station	1979	3831

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	**5**

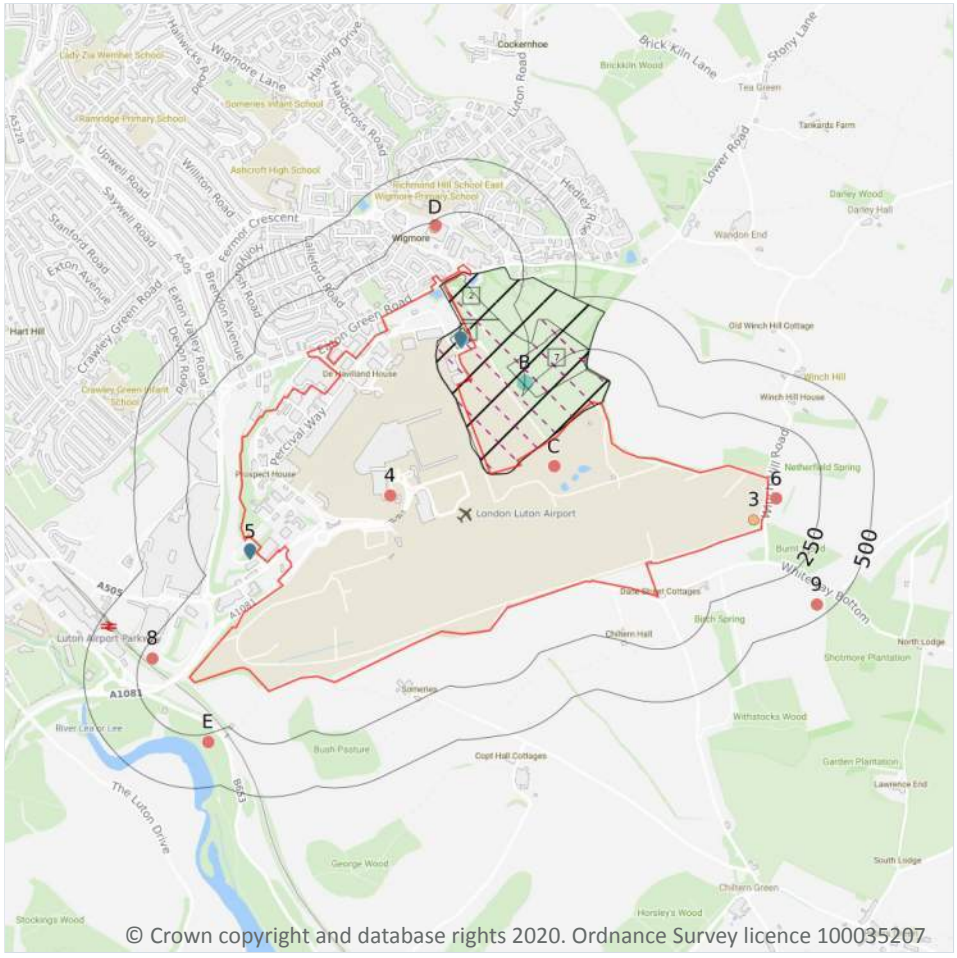
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 27**

ID	Location	Land Use	Date	Group ID
AT	100m NW	Garage	1979	70067
AT	101m NW	Garage	1967	72251
AT	101m NW	Garage	1962	72251
AT	101m NW	Garage	1962	70324
BE	195m NW	Garage	1967	69243

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

- Historical landfill (EA/NRW)
- Historical landfill (BGS)
- Historical landfill (LA/OS)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

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	1

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.

Features are displayed on the Waste and landfill map on **page 48**

ID	Location	Address	BGS Number	Risk	Waste Type
B	250m E	Town Refuse Tip, Eaton Grn Rd, Luton, Beds	1251	Risk to major aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m **5**

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

Features are displayed on the Waste and landfill map on **page 48**

ID	Location	Site address	Source	Data type
2	**On site**	**Refuse Tip**	**1971 mapping**	**Polygon**
A	**On site**	**Public Refuse Tip**	**1990 mapping**	**Polygon**
A	**On site**	**Public Refuse Tip**	**1993 mapping**	**Polygon**
B	**On site**	**Refuse Tip**	**1971 mapping**	**Polygon**
7	147m NW	Landfill Site	1990 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m **1**

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 48**

ID	Location	Details		
1	**On site**	**Site Address: Luton Airport, Eaton Green Road, Luton, Bedfordshire** **Licence Holder Address: -**	**Waste Licence: -** **Site Reference: 7/1976, 32/1993** **Waste Type: Inert, Industrial, Commercial, Household, Liquid sludge** **Environmental Permitting Regulations (Waste) Reference: -** **Licence Issue: -** **Licence Surrender: -**	**Operator: Luton County Borough Council** **Licence Holder: Luton Borough Council** **First Recorded 01/01/1937** **Last Recorded: 01/01/1978**

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

3.5 Historical waste sites

Records within 500m	**2**

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

Features are displayed on the Waste and landfill map on **page 48**

ID	Location	Address	Further Details	Date
3	**On site**	**Site Address: London Luton Airport, Airport Way, Luton, Bedfordshire, LU2 9LY**	**Type of Site: Land Reclamation Works Planning application reference: 17/02219/FUL Description: Scheme comprises the movement and reuse of up to 331,400 metres cubed (m3) of spoil material and the permanent placement of the spoil material on six sites within london luton airport and diversion of the airside perimeter road (the 'construction of deve lopment'). Data source: Historic Planning Application Data Type: Point**	**02/03/2018**
D	194m NW	Site Address: Asda Stores Ltd,Wigmore Lane, Wigmore Park Centre, LUTON, Bedfordshire, LU2 9TA	Type of Site: Recycling Area Planning application reference: 09/00213/FUL Description: Scheme comprises installation of 2 security barriers and relocation of recycling area and trolley bay. An application (ref: 09/00213/FUL) for detailed planning permission was granted by Luton B.C. A detailed planning application has been granted. Data source: Historic Planning Application Data Type: Point	02/09/2009

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

3.6 Licensed waste sites

Records within 500m	**6**

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

Features are displayed on the Waste and landfill map on **page 48**

ID	Location	Details		
A	On site	Site Name: Luton Tidy Tip, Eaton Green Road Ca Site Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Correspondence Address: Waste Recycling Group, Sutton Courtenay Lanfill Site, Appleford Sidings, Abingdon, Oxon, OX14 4PW	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: - Operator: Waste Recycling Limited Waste Management licence No: 80489 Annual Tonnage: 0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified:: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
A	On site	Site Name: Luton Tidy Tip, Eaton Green Road Ca Site Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Correspondence Address: Waste Recycling Group, Sutton Courtenay Lanfill Site, Appleford Sidings, Abingdon, Oxon, OX14 4PW	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: - Operator: Waste Recycling Ltd Waste Management licence No: 80489 Annual Tonnage: 0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified:: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
A	On site	Site Name: Luton Tidy Tip, Eaton Green Road Ca Site Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Correspondence Address: Mr R Taafe T/A C A Management Services, Waste Management Div, Central Depot, Kingsway, Luton, Beds, LU4 8AU	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LUT006 EPR reference: - Operator: Luton Borough Council Waste Management licence No: 80489 Annual Tonnage: 0	Issue Date: 01/04/1993 Effective Date: 31/05/2001 Modified:: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	On site	Site Name: Eaton Green Civic Amenity Site Site Address: Land/ Premises At, Eaton Green Road, Luton, Bedfordshire, LU2 9NW Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: EA/EPR/XP3597NS/V002 Operator: Waste Recycling Ltd Waste Management licence No: 80489 Annual Tonnage: 24999	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified:: 07/12/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

ID	Location	Details		
A	**On site**	**Site Name: Eaton Green Household Waste Recycling Centre Site Address: Eaton Green H W R C, Eaton Green Road, Luton, Bedfordshire, LU2 9HB Correspondence Address: -**	**Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: EA/EPR/XP3597NS/V004 Operator: F C C Recycling (U K) Limited Waste Management licence No: 80489 Annual Tonnage: 24999**	**Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified:: 27/09/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified**
5	31m W	Site Name: Vauxhall Airport Way (Kimpton Lane) Site Address: Andy Ronald, Central Services, Kimpton Road, Luton, Bedfordshire, LU2 0TY Correspondence Address: -	Type of Site: In-House Storage Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VAU001 EPR reference: EA/EPR/LP3197NX/V003 Operator: Vauxhall Motors Ltd Waste Management licence No: 80459 Annual Tonnage: 75000	Issue Date: 22/04/1981 Effective Date: - Modified:: 30/06/1997 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC

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

3.7 Waste exemptions

Records within 500m **10**

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.

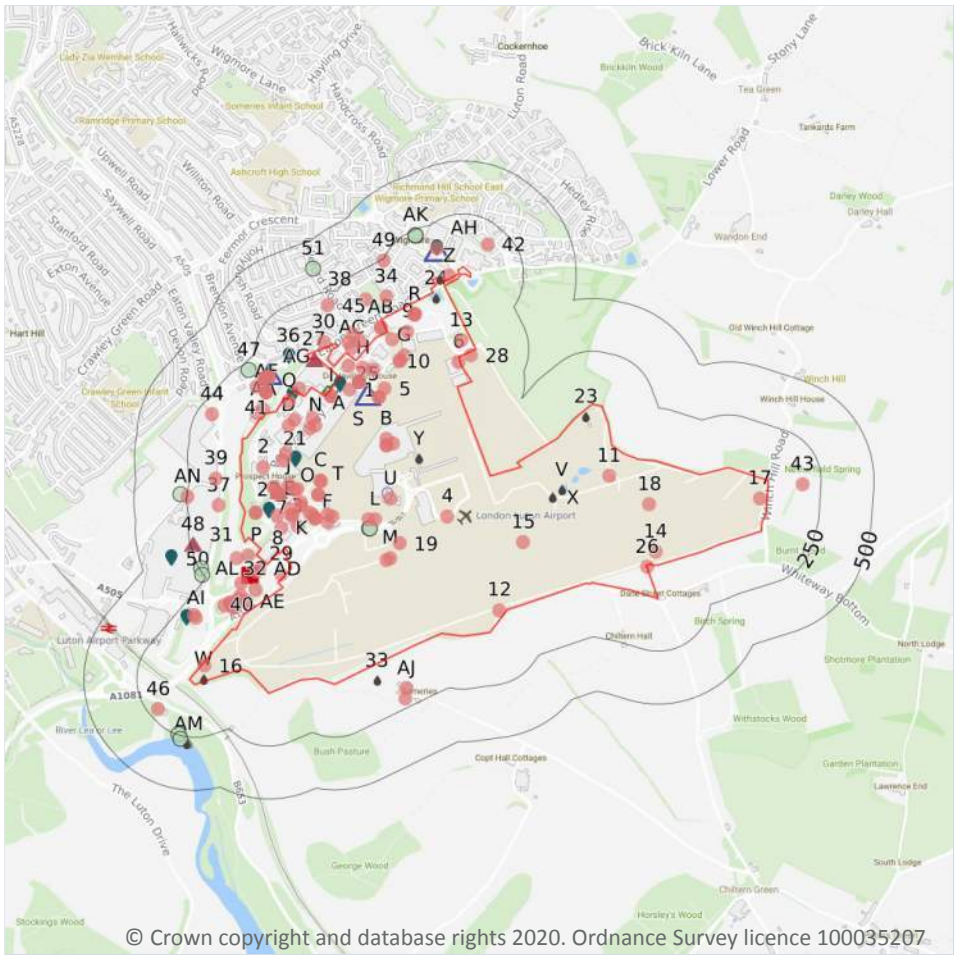
Features are displayed on the Waste and landfill map on **page 48**

ID	Location	Site	Reference	Category	Sub-Category	Description
4	**On site**	**London Luton Airport Hanger 24 Luton LU2 9LY**	**EPR/WF0602GS/A001**	**Treating waste exemption**	**Non-Agricultural Waste Only**	**Crushing waste fluorescent tubes**
C	**On site**	**Luton Airport LUTON Bedfordshire LU2 9NY**	**EPR/PH0316YD/A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of waste in a secure place**

ID	Location	Site	Reference	Category	Sub-Category	Description
C	**On site**	**Luton Airport LUTON Bedfordshire LU2 9NY**	**EPR/PH0316YD/A001**	**Treating waste exemption**	**Non-Agricultural Waste Only**	**Screening and blending of waste**
6	43m E	Rudwick Hall Farm Ansells End Kimpton Hertfordshire SG4 8HD	EPR/SE5948GQ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
8	198m NW	-	WEX122511	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	224m NW	Asda Luton Wigmore Lane LUTON LU2 9TA	EPR/JE5856JC/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
E	289m S	Land at Grid Reference: TL 11000 20000	EPR/SE5443VA/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	289m S	Land at Grid Reference: TL 11000 20000	EPR/SE5443VA/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
E	289m S	Land at Grid Reference: TL 11000 20000	EPR/SE5443VA/A001	Using waste exemption	Non-Agricultural Waste Only	Use of mulch
9	442m SE	-	WEX109050	Storing waste exemption	On a farm	Storage of sludge

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	129

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 54**

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
2	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
3	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
5	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
6	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
7	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
8	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
9	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
10	On site	Mast	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
11	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
12	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
13	On site	Recycling Centre	Bedfordshire, LU2	Recycling Centres	Infrastructure and Facilities
14	On site	Mast	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
15	On site	London Luton Airport	Bedfordshire, LU2	Airports and Landing Strips	Air
16	On site	Runway Approach Light	Bedfordshire, LU1	Aeronautical Features	Air
17	On site	Air Light Beacons	Bedfordshire, LU2	Aeronautical Features	Air
18	On site	Wind Sock	Bedfordshire, LU2	Aeronautical Features	Air
19	On site	Luton Airport Fire Station	Luton Airport, Airport Way, Luton, Bedfordshire, LU2	Fire Brigade Stations	Central and Local Government
20	On site	David Berryman	Unit B Airport Executive Park, President Way, Luton, Bedfordshire, LU2 9NY	Non Alcoholic Drinks	Foodstuffs

ID	Location	Company	Address	Activity	Category
A	On site	First Class Cars	Kensal House, President Way, Luton, Bedfordshire, LU2 9NL	Vehicle Hire and Rental	Hire Services
A	On site	A E M	De Havilland House, President Way, Luton, Bedfordshire, LU2 9NL	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
A	On site	Kensal Handling System Ltd	Kensal House, President Way, Luton, Bedfordshire, LU2 9NR	Lifting and Handling Equipment	Industrial Products
B	On site	Avis Rent A Car	Presidents Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY	Vehicle Hire and Rental	Hire Services
B	On site	Budget Rent A Car	Presidents Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY	Vehicle Hire and Rental	Hire Services
B	On site	Left Luggage - Baggage Storage (Lockers)	London Luton Airport Pre Security, Airport Way, Luton Airport, Luton, Bedfordshire, LU2 9LY	Container and Storage	Transport, Storage and Delivery
B	On site	London Luton Airport	Navigation House, Airport Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY	Airports and Landing Strips	Air
C	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
C	On site	Pylon	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
D	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
D	On site	Alpha LSG	Provost Way, London Luton Airport, Luton, Bedfordshire, LU2 9PB	Aeroplanes	Industrial Products
E	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
E	On site	Sixt	Prudence Place, Proctor Way, Luton, Bedfordshire, LU2 9PE	Vehicle Hire and Rental	Hire Services
E	On site	Sky Airport Transfer	Prudence Place, Luton, Bedfordshire, LU2 9PE	Airlines and Airline Services	Transport, Storage and Delivery
F	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
F	On site	Pylon	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
F	On site	Mast (Telecommunication)	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
G	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
G	On site	Harrods Aviation	Hangar 129, President Way, Luton, Bedfordshire, LU2 9NW	Aeroplanes	Industrial Products
G	On site	Pendley Aviation	Hangar 129, President Way, Luton, Bedfordshire, LU2 9NW	Aircraft Charters	Contract Services
H	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
H	On site	Dot Group International	Unit 2, Prince Way, Luton, Bedfordshire, LU2 9PD	Office and Shop Equipment	Industrial Products
I	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
I	On site	G K N Aerospace	Percival Way, London Luton Airport, Luton, Bedfordshire, LU2 9PQ	Aeroplanes	Industrial Products
J	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
J	On site	Pylon	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
J	On site	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
J	On site	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
J	On site	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
J	On site	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
J	On site	Mast (Telecommunication)	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
K	On site	Depot	Bedfordshire, LU2	Container and Storage	Transport, Storage and Delivery
K	On site	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
K	On site	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
K	On site	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
K	On site	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
K	On site	World Fuel Services	Percival Way, London Luton Airport, Luton, Bedfordshire, LU2 9PA	Aeroplanes	Industrial Products
L	On site	Pylon	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
L	On site	Radar Tower	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
M	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
M	On site	Masts	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
N	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
N	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
N	On site	Applus UK Ltd	Building 27, Percival Way, London Luton Airport, Luton, Bedfordshire, LU2 9PA	Aviation Engineers	Engineering Services
O	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
O	On site	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
P	On site	The Charter Company	Essex House, Proctor Way, Luton, Bedfordshire, LU2 9PE	Aircraft Charters	Contract Services
P	On site	Ambrion Aviation	Essex House, Proctor Way, Luton, Bedfordshire, LU2 9PE	Airlines and Airline Services	Transport, Storage and Delivery
Q	On site	Menzies Aviation	Provost Way, London Luton Airport, Luton, Bedfordshire, LU2 9PB	Aeroplanes	Industrial Products
R	On site	Europcar	Car Hire Centre Building 250, Luton Airport President Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY	Vehicle Hire and Rental	Hire Services
R	On site	Enterprise Rent-A-Car	Car Rental Airport, President Way, Luton, Bedfordshire, LU2 9NL	Vehicle Hire and Rental	Hire Services
R	On site	Hertz Car Hire	Airport Building 250 President Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY	Vehicle Hire and Rental	Hire Services
S	On site	Landmark Aviation	Britannia House 135, Frank Lester Way, London Luton Airport, Luton, Bedfordshire, LU2 9NQ	Aircraft Charters	Contract Services

ID	Location	Company	Address	Activity	Category
S	**On site**	**Signature Flight Support**	**Britannia House 135, Frank Lester Way, London Luton Airport, Luton, Bedfordshire, LU2 9NQ**	**Aeroplanes**	**Industrial Products**
T	**On site**	**Speedbird Air Ltd**	**Signature Flight Support Terminal 1, Percival Way, London Luton Airport, Luton, Bedfordshire, LU2 9PA**	**Aircraft Charters**	**Contract Services**
T	**On site**	**Signature Flight Support**	**Signature Flight Support Terminal 1, Percival Way, London Luton Airport, Luton, Bedfordshire, LU2 9PA**	**Airlines and Airline Services**	**Transport, Storage and Delivery**
U	**On site**	**Luton Airport Taxis Ltd**	**Navigation House, Airport Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY**	**Airlines and Airline Services**	**Transport, Storage and Delivery**
26	1m E	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
Z	11m NW	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
28	15m SE	Mast (Telecommunication)	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
29	17m NW	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
AA	19m NW	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
AB	19m SW	T C R	Unit M Airport Executive Park, President Way, Luton, Bedfordshire, LU2 9NY	Aviation Engineers	Engineering Services
AB	20m SW	Ssangyong UK Motor Ltd	Unit D-E Airport Executive Park, President Way, Luton, Bedfordshire, LU2 9NY	New Vehicles	Motoring
Q	20m NE	Chimney	Bedfordshire, LU2	Chimneys	Industrial Features
30	28m N	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
AA	29m NW	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features
AC	35m NE	Airport	Bedfordshire, LU2	Airports and Landing Strips	Air
AD	40m SW	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
31	42m W	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features

ID	Location	Company	Address	Activity	Category
AC	45m NW	Air Cargo & Container Services Ltd	Unit H, President Way, Luton, Bedfordshire, LU2 9NL	Distribution and Haulage	Transport, Storage and Delivery
AE	48m NW	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
AC	50m E	Moog Fernau Ltd	Unit C Airport Executive Park, President Way, Luton, Bedfordshire, LU2 9NY	Aviation Engineers	Engineering Services
AE	57m NW	Europcar	Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Vehicle Hire and Rental	Hire Services
AD	59m SW	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
AE	60m NW	Barratt Industrial Park	Bedfordshire, LU2	Business Parks and Industrial Estates	Industrial Features
32	69m NW	Depot	Bedfordshire, LU2	Container and Storage	Transport, Storage and Delivery
AE	75m NW	Gledhill Building Products	Unit 7 Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
34	86m NW	A P F Ltd	33, Barnston Close, Luton, Bedfordshire, LU2 9RZ	Distribution and Haulage	Transport, Storage and Delivery
AE	86m NW	Agility Logistics	Unit 3 Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Distribution and Haulage	Transport, Storage and Delivery
AE	86m NW	Bell Packaging	Unit 8 Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Packaging	Industrial Products
AE	86m NW	I C W Powermode	Unit 2 Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Electrical Production and Manipulation Equipment	Industrial Products
35	87m SW	Travelling Crane	Bedfordshire, LU2	Travelling Cranes and Gantries	Industrial Features
AF	88m NW	Land Rover Service Centres	Eaton Green Road, Luton, Bedfordshire, LU2 9LD	Vehicle Repair, Testing and Servicing	Repair and Servicing
AF	88m NW	Ford Approved Service Centres	Eaton Green Road, Luton, Bedfordshire, LU2 9LD	Vehicle Repair, Testing and Servicing	Repair and Servicing
AF	88m NW	Cougar Accident Repair Centre	Eaton Green Road, Luton, Bedfordshire, LU2 9LD	Vehicle Repair, Testing and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
AC	89m NE	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
37	102m W	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features
AE	103m NW	I C W Powermode	Unit 2 Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Electrical Production and Manipulation Equipment	Industrial Products
38	120m NW	Mast (Telecommunication)	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
39	121m W	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features
AG	126m NW	Shell Car Wash	Petrol Filling Station 91, Eaton Green Road, Luton, Bedfordshire, LU2 9HD	Vehicle Cleaning Services	Personal, Consumer and Other Services
AG	126m NW	Shell Service Station	Petrol Filling Station 91, Eaton Green Road, Luton, Bedfordshire, LU2 9HD	Petrol and Fuel Stations	Road and Rail
AG	131m NW	Shell Luton Airport	Eaton Green Road, Luton, Bedfordshire, LU2 9HD	Petrol and Fuel Stations	Road and Rail
40	131m NW	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features
41	135m N	Just Click 4 Chauffeurs	The Coach Yard, Eaton Green Road, Luton, Bedfordshire, LU2 9HD	Vehicle Hire and Rental	Hire Services
AG	136m NW	Shell Luton Airport	Eaton Green Road, Luton, Bedfordshire, LU2 9HD	Vehicle Cleaning Services	Personal, Consumer and Other Services
AH	139m N	Asda Petrol	Wigmore Hall Shopping Centre, Wigmore Lane, Luton, Bedfordshire, LU2 9TA	Petrol and Fuel Stations	Road and Rail
42	156m NE	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
43	161m E	Air Light Beacons	Hertfordshire, LU2	Aeronautical Features	Air
AI	164m NW	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
AJ	166m SE	Carlow Plant & Commercials Ltd	Someries Farm, Someries, Luton, Bedfordshire, LU2 9PL	Industrial Repairs and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
AI	183m NW	Thurlow Nunn	Kimpton Road, Luton, Bedfordshire, LU2 0TB	New Vehicles	Motoring
44	185m NW	Mast (Telecommunication)	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
45	186m N	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
46	206m SW	Luton Sea Cadets and RMC	Bedfordshire, LU1	Armed Services	Central and Local Government
AJ	207m SE	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
49	243m NW	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
AN	246m W	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**3**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 54**

ID	Location	Company	Address	LPG	Status
25	**On site**	**OBSOLETE**	**Airport Approach Road, Luton, Luton, LU2 9PF**	**Not Applicable**	**Obsolete**
AH	127m N	ASDA	Wigmore Lane, Wigmore, Luton, Luton, LU2 9TA	No	Open
AG	137m NW	SHELL	Eaton Green Road, Luton, Luton, LU2 9HD	Yes	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	0

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	1

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.

Features are displayed on the Current industrial land use map on **page 54**

ID	Location	Company	Address	Operational status	Tier
J	**On site**	**Shell UK Oil Products Limited**	**Shell UK Oil Products Limited, Luton Airport, Terminal Building, Percival Way, Luton, Bedfordshire, LU2 9LU**	**Current COMAH Site**	**COMAH Lower Tier Operator**

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	1

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.

Features are displayed on the Current industrial land use map on **page 54**

ID	Location	Company	Operational Address
I	**On site**	**Gkn Aerospace Transparency Systems (Kings Norton)**	**Percival Way, London Luton Airport, Luton, LU2 9PQ**

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	3

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.

Features are displayed on the Current industrial land use map on **page 54**

ID	Location	Details	
J	**On site**	**Application reference number: 05/01110/HAZ** **Application status: Approved** **Application date: 12/07/2005** **Address: Shell UK Oil Products Ltd, Airport Fuel Storage Depot, Percival Way, Luton, Beds, England, LU2 9LU**	**Details: Storage of Jet A-1 fuel within 4 storage tanks.** **Enforcement: No Enforcement Notified** **Date of enforcement: No Enforcement Notified** **Comment: No Enforcement Notified**
27	1m S	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: GKN Aerospace Transparency SystemsS(LUTON) LTD, Percival Way, Luton Airport, Luton, Bedfordshire, England	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details
48	238m W	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: IBC Vehicles Ltd, PO Box 163, Kimpton Road, Luton, Bedfordshire, LU2 0TY	Details: No details. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

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	1

Records of Part A(1) 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 54**

ID	Location	Details	
U	**On site**	**Operator: LONDON LUTON AIRPORT OPERATIONS LIMITED** **Installation Name: LONDON LUTON AIRPORT** **Process: NEW MEDIUM COMBUSTION PLANT** **Permit Number: BP3603PE** **Original Permit Number: BP3603PE**	**EPR Reference: -** **Issue Date: 18/12/2019** **Effective Date: 18/12/2019** **Last date noted as effective: 26/10/2020** **Status: EFFECTIVE**

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

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

Records within 500m **10**

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 54**

ID	Location	Address	Details	
21	**On site**	**Aerospace Composites, Luton Airport, LU2 9PQ**	**Process: Coating Processes** **Status: Historical Permit** **Permit Type: Part B**	**Enforcement: No Enforcement Notices** **Date of enforcement: No Enforcement Notices** **Comment: No Enforcement Notices**
22	**On site**	**T & D Automotive, Airport Way**	**Process: Coating Processes** **Status: Historical Permit** **Permit Type: Part B**	**Enforcement: No Enforcement Notices** **Date of enforcement: No Enforcement Notices** **Comment: No Enforcement Notices**
I	**On site**	**GKN Aerospace, Percival Way, LU2 9LU**	**Process: Coating Processes** **Status: Current Permit** **Permit Type: Part B**	**Enforcement: No Enforcement Notices** **Date of enforcement: No Enforcement Notices** **Comment: No Enforcement Notices**
Q	**On site**	**Airline Services, Building 160, Provost Way, Luton, LU2 9PB**	**Process: Dry Cleaning** **Status: Current Permit** **Permit Type: Part B**	**Enforcement: No Enforcement Notices** **Date of enforcement: No Enforcement Notices** **Comment: No Enforcement Notices**
36	91m W	Kez's Dry Cleaners, 13 Eaton Green Road, LU2 9HE	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices
AG	129m NW	Airport Service Station, 3 Eaton Green Road, LU2 9HD	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices

ID	Location	Address	Details	
AG	132m NW	Shell Luton Airport, Eaton Green Road, LU2 9HD	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices
AH	140m N	Asda, Wigmore Lane, Stopsley, Luton, LU2 9TA	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices
AI	201m NW	Ibc Vehicles, Kimpton Rd, Luton, Bedfordshire, LU2 0TY	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices
50	355m W	IBC Vehicles, Kimpton Rd, Luton, Bedfordshire, LU2 0TY	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices

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	**22**

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 54**

ID	Location	Address	Details	
23	**On site**	**LONDON LUTON AIRPORT OPERATIONS LTD, NAVIGATION HOUSE, LONDON LUTON AIRPORT, LUTON, LU2 9LY**	**Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CANM.0448 Permit Version: 1 Receiving Water: LAND VIA SUB-IRRIGATION**	**Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/09/2002 Effective Date: 27/09/2002 Revocation Date: -**

ID	Location	Address	Details	
24	On site	LUTON AIRPORT NORTHERN SOAKAWAY, PRESIDENT WAY, LONDON LUTON AIRPORT, LUTON, BEDFORDSHIRE, LU2 9PD	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRRP3221GC Permit Version: 1 Receiving Water: TO GROUND	Status: NEW ISSUED UNDER EPR 2010 Issue date: 11/04/2012 Effective Date: 11/04/2012 Revocation Date: -
V	On site	VFK SITE OFFICES, SITE 1, KIMPTON ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3497AD Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/06/2019 Effective Date: 27/06/2019 Revocation Date: -
V	On site	VFK SITE OFFICES, SITE 1, KIMPTON ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3497AD Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/06/2019 Effective Date: 27/06/2019 Revocation Date: -
W	On site	VFK SITE OFFICES, SITE 1, KIMPTON ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3497AD Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/06/2019 Effective Date: 27/06/2019 Revocation Date: -
W	On site	VFK SITE OFFICES, SITE 1, KIMPTON ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3497AD Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/06/2019 Effective Date: 27/06/2019 Revocation Date: -
W	On site	VFK SITE OFFICES, SITE 1, KIMPTON ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3497AD Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/06/2019 Effective Date: 27/06/2019 Revocation Date: -
W	On site	VFK SITE OFFICES, SITE 1, KIMPTON ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3497AD Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/06/2019 Effective Date: 27/06/2019 Revocation Date: -

ID	Location	Address	Details	
X	**On site**	**LUTON AIRPORT, LUTON, BEDFORDSHIRE, LUTON AIRPORT LUTON BEDFORDSHI, RE**	**Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: CNTM.0180 Permit Version: 1 Receiving Water: CHALK**	**Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 22/04/1992 Effective Date: 22/04/1992 Revocation Date: 30/05/2013**
X	**On site**	**LUTON AIRPORT, LUTON, BEDFORDSHIRE, LUTON AIRPORT LUTON BEDFORDSHI, RE**	**Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: CNTM.0180 Permit Version: 2 Receiving Water: CHALK**	**Status: VARIED UNDER EPR 2010 Issue date: 31/05/2013 Effective Date: 31/05/2013 Revocation Date: -**
Y	**On site**	**THE PAY STATION AT CAR PARK A, LOND, THE PAY STATION AT CAR PARK A L, ONDON LUTON AIRPORT LUTON BEDF, ORDSHIRE**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1315 Permit Version: 1 Receiving Water: GRAVEL**	**Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 04/03/1994 Effective Date: 04/03/1994 Revocation Date: 18/01/2006**
Y	**On site**	**THE PAY STATION AT CAR PARK A, LOND, THE PAY STATION AT CAR PARK A L, ONDON LUTON AIRPORT LUTON BEDF, ORDSHIRE**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1315 Permit Version: 2 Receiving Water: GRAVEL**	**Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 19/01/2006 Effective Date: 19/01/2006 Revocation Date: 19/01/2018**
Z	8m NE	Wigmore Bottom, Luton, Wigmore Bottom, Luton	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2256 Permit Version: 1 Receiving Water: LEE	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
Z	8m NE	Wigmore Bottom, Luton, Wigmore Bottom, Luton	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2256 Permit Version: 2 Receiving Water: Lee	Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 19/08/2014
33	72m SE	LUTON (EAST HYDE) WWTW, WEST HYDE ROAD, LUTON, BEDFORDSHIRE, LU1 3TS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CLCP.0136 Permit Version: 1 Receiving Water: LEE	Status: REVOKED - UNSPECIFIED Issue date: 08/08/1963 Effective Date: 31/01/1985 Revocation Date: 14/12/1989

ID	Location	Address	Details	
AM	284m S	KIMPTON ROAD CSO, KIMPTON RD, LUTON, LU2 0JY	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CANM.0473 Permit Version: 1 Receiving Water: THE RIVER LEE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/09/2002 Effective Date: 26/09/2002 Revocation Date: 22/06/2003
AM	285m S	THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM LUTON HOO , LUTON BEDFORDSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CNTM.0213 Permit Version: 1 Receiving Water: RIVER LEE	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 07/05/1992 Effective Date: 07/05/1992 Revocation Date: 07/03/1993
AM	285m S	THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM LUTON HOO , LUTON BEDFORDSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CNTM.0213 Permit Version: 1 Receiving Water: RIVER LEE	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 07/05/1992 Effective Date: 07/05/1992 Revocation Date: 07/03/1993
AM	285m S	THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM LUTON HOO , LUTON BEDFORDSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTM.0213 Permit Version: 1 Receiving Water: RIVER LEE	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 07/05/1992 Effective Date: 07/05/1992 Revocation Date: 07/03/1993
AM	285m S	THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM LUTON HOO , LUTON BEDFORDSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CNTM.0213 Permit Version: 2 Receiving Water: RIVER LEE	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 07/05/1992 Effective Date: 08/03/1993 Revocation Date: -
AM	285m S	THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM LUTON HOO , LUTON BEDFORDSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CNTM.0213 Permit Version: 2 Receiving Water: RIVER LEE	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 07/05/1992 Effective Date: 08/03/1993 Revocation Date: -
AM	285m S	THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM LUTON HOO , LUTON BEDFORDSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTM.0213 Permit Version: 2 Receiving Water: RIVER LEE	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 07/05/1992 Effective Date: 08/03/1993 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	0

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	3

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.

Features are displayed on the Current industrial land use map on **page 54**

ID	Location	Name	Status	Receiving Water	Authorised Substances
AD	93m SW	Vauxhall Motors Kimpton Road Luton	Not Active	-	-
AD	93m SW	Vauxhall Motors Kimpton Road Luton	Not Active	-	-
AD	93m SW	Vauxhall Motors Ltd, Kimpton Road, Luton	Not Active	Lee	Mercury (other), Cadmium

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	**11**

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 **page 54**

ID	Location	Details	
L	**On site**	**Incident Date: 13/10/2001** **Incident Identification: 36419** **Pollutant: Organic Chemicals/Products** **Pollutant Description: Surfactants and Detergents**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 4 (No Impact)**
L	**On site**	**Incident Date: 16/01/2002** **Incident Identification: 52824** **Pollutant: Organic Chemicals/Products** **Pollutant Description: Surfactants and Detergents**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 4 (No Impact)**
47	214m NW	Incident Date: 07/07/2001 Incident Identification: 14602 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AK	224m NW	Incident Date: 22/08/2002 Incident Identification: 102538 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
AK	224m NW	Incident Date: 22/08/2002 Incident Identification: 102538 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
AL	242m SW	Incident Date: 22/07/2013 Incident Identification: 1137214 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
AM	245m S	Incident Date: 26/07/2001 Incident Identification: 19403 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AL	254m SW	Incident Date: 13/08/2012 Incident Identification: 1025254 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)

ID	Location	Details	
AM	266m S	Incident Date: 01/08/2002 Incident Identification: 123305 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AN	283m W	Incident Date: 20/01/2006 Incident Identification: 373127 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 2 (Significant) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
51	370m N	Incident Date: 24/02/2014 Incident Identification: 1211679 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)

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.

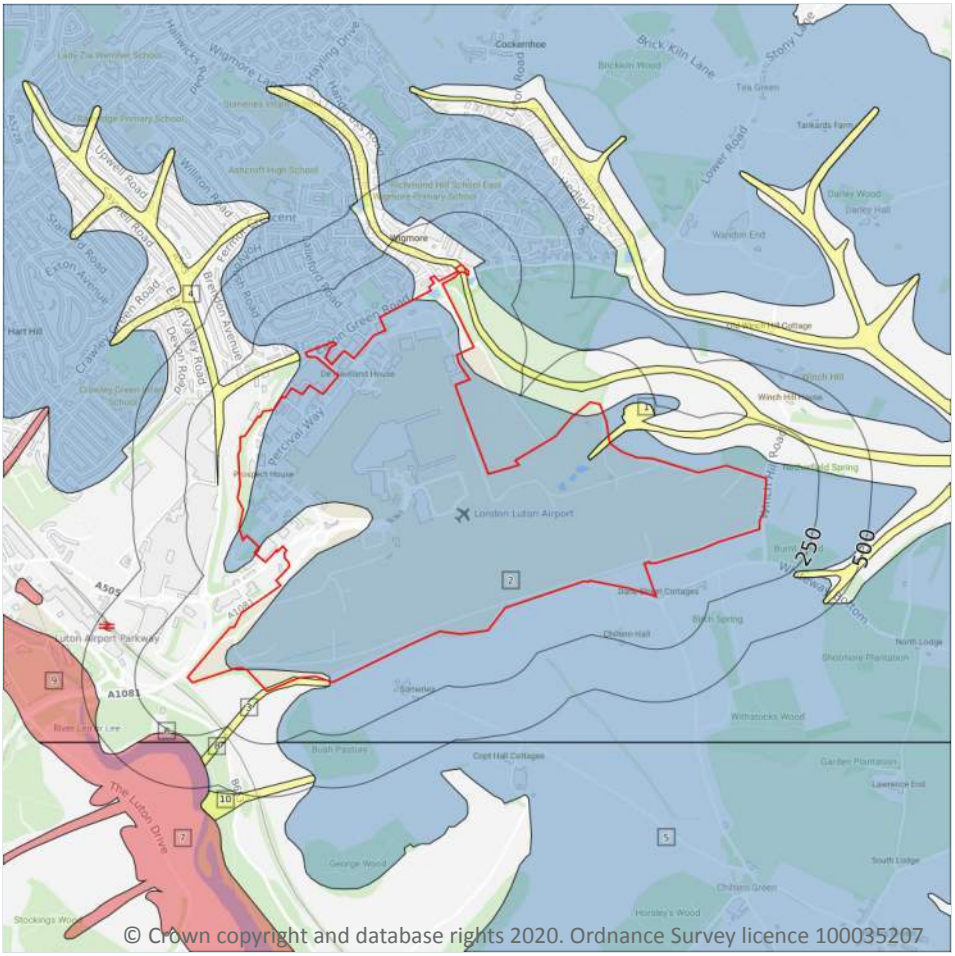
4.21 Pollution inventory radioactive waste

Records within 500m	0

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



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	10

Aquifer status of groundwater held within superficial geology.

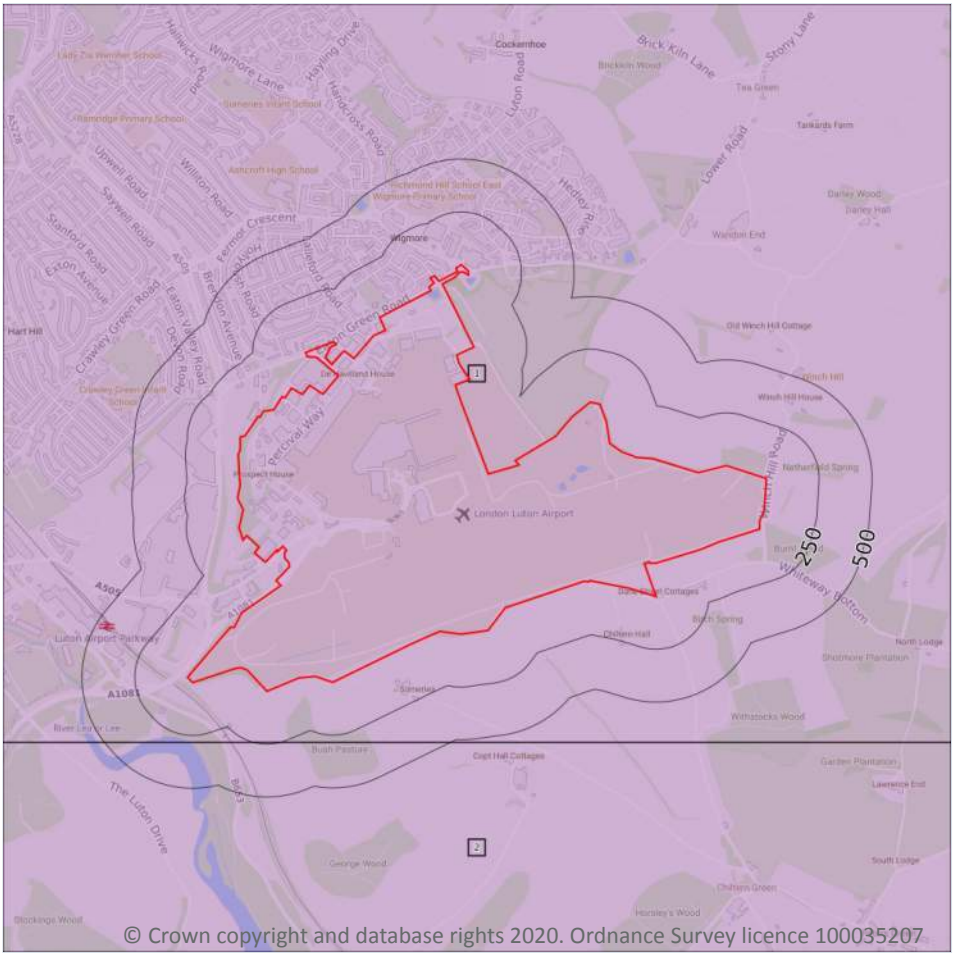
Features are displayed on the Hydrogeology map on **page 74**

ID	Location	Designation	Description
1	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
2	On site	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
3	**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**
4	32m 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
5	246m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
6	256m 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
7	283m 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
8	301m S	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	433m 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
10	438m S	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



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	2

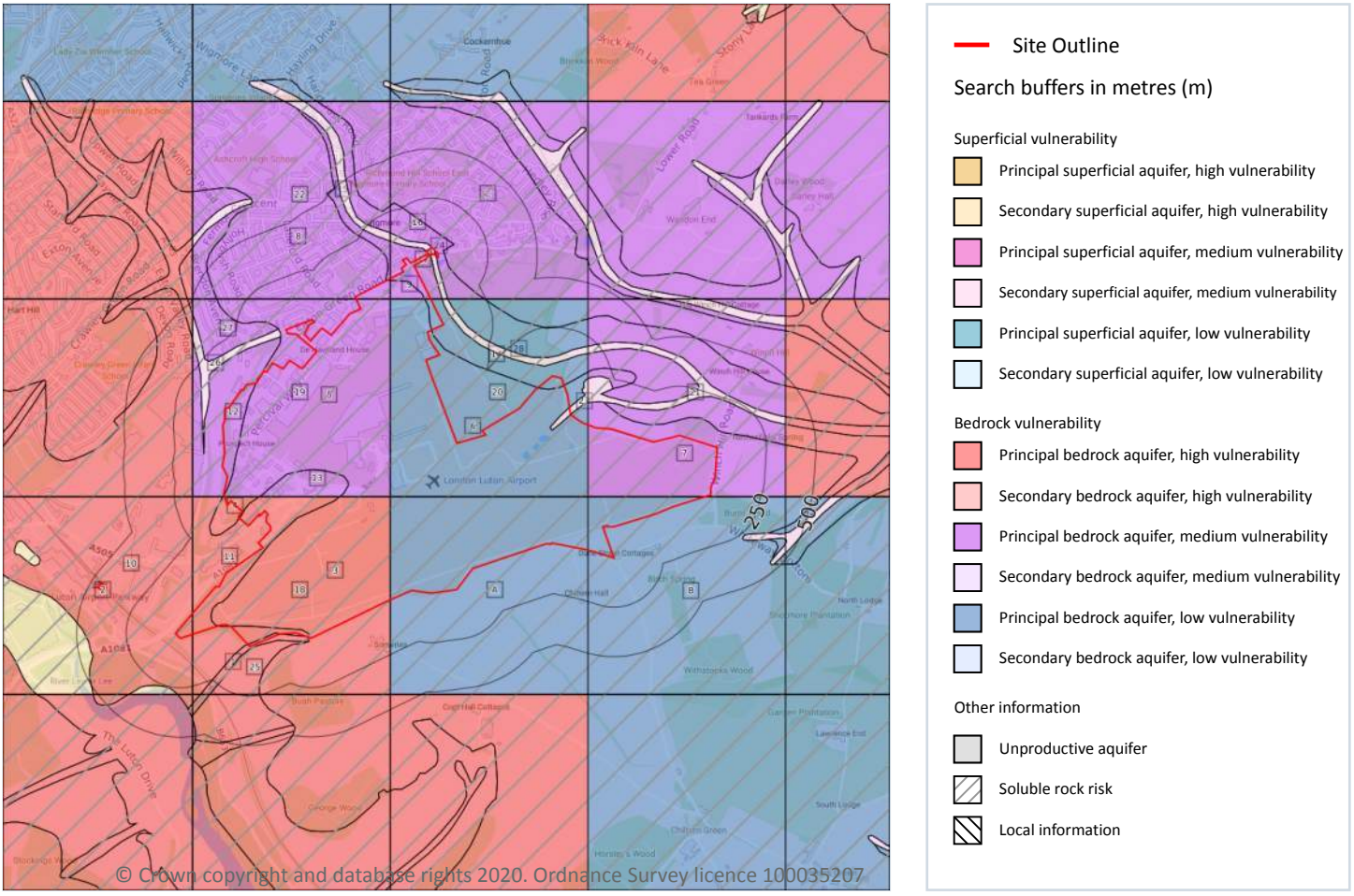
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 76**

ID	Location	Designation	Description
1	**On site**	**Principal**	**Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers**
2	241m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major 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	25

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 78**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
4	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
5	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
6	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
7	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
9	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
10	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
11	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
12	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
13	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
14	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
15	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
16	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
17	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
23	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
24	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
A	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
B	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures**
25	10m SE	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
C	28m E	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
26	31m SW	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
27	37m W	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
28	46m NE	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal 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	9

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	**Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.**	**25.0%**
18	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**4.0%**
19	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**3.0%**
20	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**4.0%**
21	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**18.0%**
22	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**24.0%**
A	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**0.0%**
B	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**5.0%**
C	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**25.0%**

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

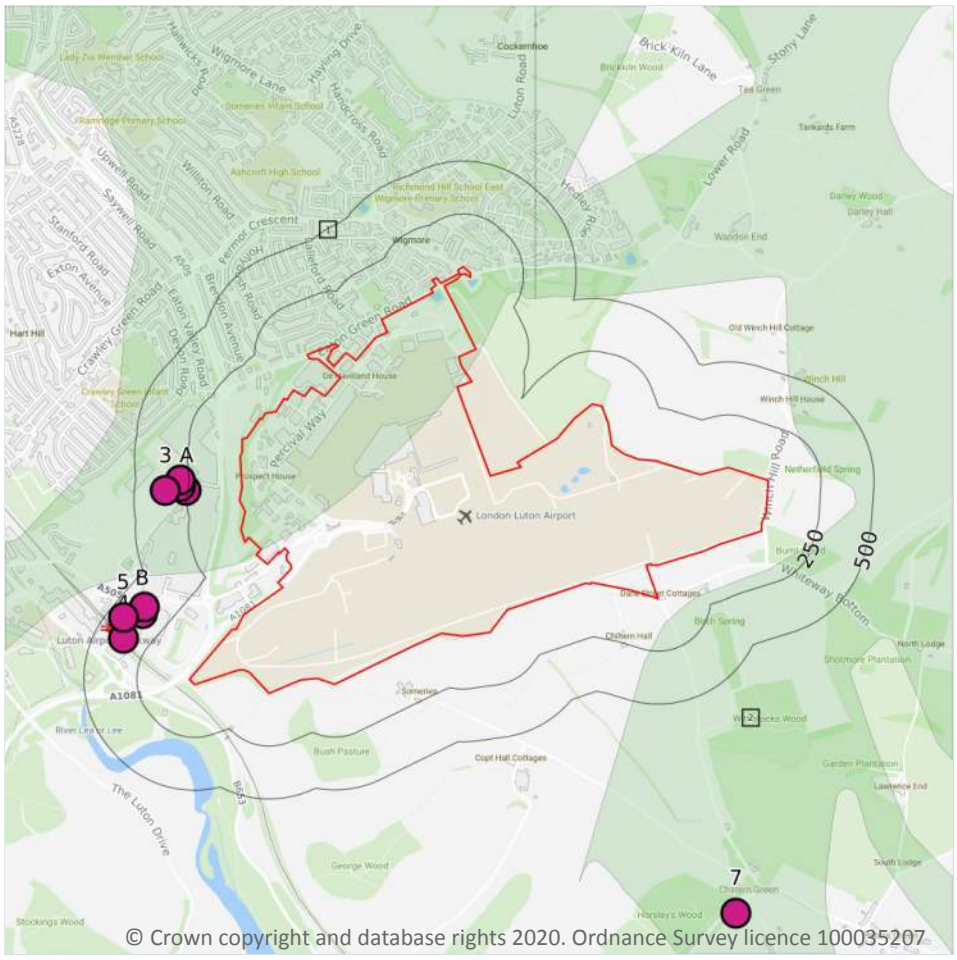
5.5 Groundwater vulnerability- local information

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 enquiries@environment-agency.gov.uk.

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

Source Protection Zone 1
Inner catchment

Source Protection Zone 2
Outer catchment

Source Protection Zone 3
Total catchment

Source Protection Zone 4
Zone of Special Interest

Source Protection Zone 1c
Inner catchment - confined aquifer

Source Protection Zone 2c
Outer catchment - confined aquifer

Source Protection Zone 3c
Total catchment - confined aquifer

Drinking water abstraction licences

Drinking water abstraction licences
Polygon features

Drinking water abstraction licences
Linear features

Groundwater abstraction licence (point)

Groundwater abstraction licence (area)

Groundwater abstraction licence (linear)

Surface Water Abstractions (point)

Surface Water Abstractions (area)

Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	18

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 85**

ID	Location	Details	
A	254m W	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON, BOREHOLE 'D' Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510900 Northing: 221200	Annual Volume (m^3): 2,636,738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2005 Version End Date: -
A	288m W	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON - BOREHOLE C Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510870 Northing: 221220	Annual Volume (m^3): 1,000,000 Max Daily Volume (m^3): 11,724 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 01/12/2017 Version End Date: -
A	290m W	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON - BOREHOLE D Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510870 Northing: 221250	Annual Volume (m^3): 1,000,000 Max Daily Volume (m^3): 11,724 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 01/12/2017 Version End Date: -
3	353m W	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON, BOREHOLE 'C' Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510800 Northing: 221200	Annual Volume (m^3): 2,636,738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2005 Version End Date: -

ID	Location	Details	
4	368m NW	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON, BOREHOLE 'A' Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510600 Northing: 220500	Annual Volume (m^3): 2,636,738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2005 Version End Date: -
B	373m NW	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON - BOREHOLE A Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510690 Northing: 220620	Annual Volume (m^3): 1,000,000 Max Daily Volume (m^3): 11,724 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 01/12/2017 Version End Date: -
B	385m NW	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON - BOREHOLE B Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510700 Northing: 220650	Annual Volume (m^3): 1,000,000 Max Daily Volume (m^3): 11,724 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 01/12/2017 Version End Date: -
5	428m NW	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON, BOREHOLE 'B' Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510600 Northing: 220600	Annual Volume (m^3): 2,636,738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2005 Version End Date: -

ID	Location	Details	
-	1338m W	Status: Historical Licence No: 29/38/01/0106 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: 120 PARK STREET, LUTON, BEDFORDSHIRE - 32 BOREHOLES Data Type: Point Name: URS CORPORATION LIMITED Easting: 509670 Northing: 220800	Annual Volume (m^3): 35040 Max Daily Volume (m^3): 96 Original Application No: - Original Start Date: 10/10/2007 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/10/2007 Version End Date: -
7	1535m S	Status: Historical Licence No: 29/38/02/0068 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: LABURNUM FARM, CHILTERN GREEN - BOREHOLE Data Type: Point Name: J B & B H MURCHIE Easting: 513500 Northing: 219200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/10/1969 Expiry Date: - Issue No: 100 Version Start Date: 23/10/1969 Version End Date: -
-	1565m W	Status: Active Licence No: 29/38/01/0067 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: ALBERT ROAD Data Type: Point Name: Affinity Water Limited Easting: 509450 Northing: 220860	Annual Volume (m^3): 1,663,870 Max Daily Volume (m^3): 5,228 Original Application No: - Original Start Date: 20/10/1969 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
-	1571m W	Status: Active Licence No: 29/38/01/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: CRESCENT ROAD PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 509600 Northing: 221600	Annual Volume (m^3): 10,398,011 Max Daily Volume (m^3): 29,300 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
-	1623m NW	Status: Historical Licence No: 28/39/01/0106 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: 120 PARK STREET, LUTON Data Type: Point Name: URS CORPORATION LIMITED Easting: 509670 Northing: 222080	Annual Volume (m^3): 35040 Max Daily Volume (m^3): 96 Original Application No: - Original Start Date: 10/10/2007 Expiry Date: 31/03/2009 Issue No: 1 Version Start Date: 10/10/2007 Version End Date: -

ID	Location	Details	
-	1654m S	Status: Active Licence No: 29/38/01/0039 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: THE GABLES BOREHOLE A Data Type: Point Name: LUTON HOO PARK LIMITED Easting: 511500 Northing: 218600	Annual Volume (m^3): 49,779 Max Daily Volume (m^3): 181.80 Original Application No: - Original Start Date: 20/04/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/04/1999 Version End Date: -
-	1654m S	Status: Active Licence No: 29/38/01/0039 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES GROUNDWATER Point: THE GABLES BOREHOLE A Data Type: Point Name: LUTON HOO PARK LIMITED Easting: 511500 Northing: 218600	Annual Volume (m^3): 49,779 Max Daily Volume (m^3): 181.80 Original Application No: - Original Start Date: 20/04/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/04/1999 Version End Date: -
-	1737m W	Status: Historical Licence No: 29/38/01/0098 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: POINT 'A' AT GUILDFORD STREET SERVICE STATION, LUTON. Data Type: Point Name: BP OIL UK LIMITED Easting: 509420 Northing: 221470	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/04/2002 Expiry Date: 30-Apr-05 Issue No: 1 Version Start Date: 09/04/2002 Version End Date: -
-	1737m W	Status: Historical Licence No: 29/38/01/0098 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: GUILDFORD STREET SERVICE STATION, LUTON-POINT A Data Type: Point Name: BP OIL UK LIMITED Easting: 509420 Northing: 221470	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/04/2002 Expiry Date: 30/04/2005 Issue No: 1 Version Start Date: 09/04/2002 Version End Date: -

ID	Location	Details	
-	1737m W	Status: Historical Licence No: 29/38/01/0100 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: GUILDFORD STREET SERVICE STATION, LUTON-POINT A Data Type: Point Name: BP OIL UK LIMITED Easting: 509420 Northing: 221470	Annual Volume (m^3): 366000 Max Daily Volume (m^3): 1008 Original Application No: - Original Start Date: 22/10/2003 Expiry Date: 31/12/2013 Issue No: 1 Version Start Date: 22/10/2003 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**0**

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.

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

5.8 Potable abstractions

Records within 2000m	**3**

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 85**

ID	Location	Details	
-	1565m W	Status: Active Licence No: 29/38/01/0067 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: ALBERT ROAD Data Type: Point Name: Affinity Water Limited Easting: 509450 Northing: 220860	Annual Volume (m^3): 1,663,870 Max Daily Volume (m^3): 5,228 Original Application No: - Original Start Date: 20/10/1969 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -

ID	Location	Details	
-	1571m W	Status: Active Licence No: 29/38/01/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: CRESCENT ROAD PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 509600 Northing: 221600	Annual Volume (m^3): 10,398,011 Max Daily Volume (m^3): 29,300 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
-	1654m S	Status: Active Licence No: 29/38/01/0039 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: THAMES GROUNDWATER Point: THE GABLES BOREHOLE A Data Type: Point Name: LUTON HOO PARK LIMITED Easting: 511500 Northing: 218600	Annual Volume (m^3): 49,779 Max Daily Volume (m^3): 181.80 Original Application No: - Original Start Date: 20/04/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/04/1999 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m **2**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 85**

ID	Location	Type	Description
1	**On site**	**3**	**Total catchment**
2	110m SE	3	Total catchment

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

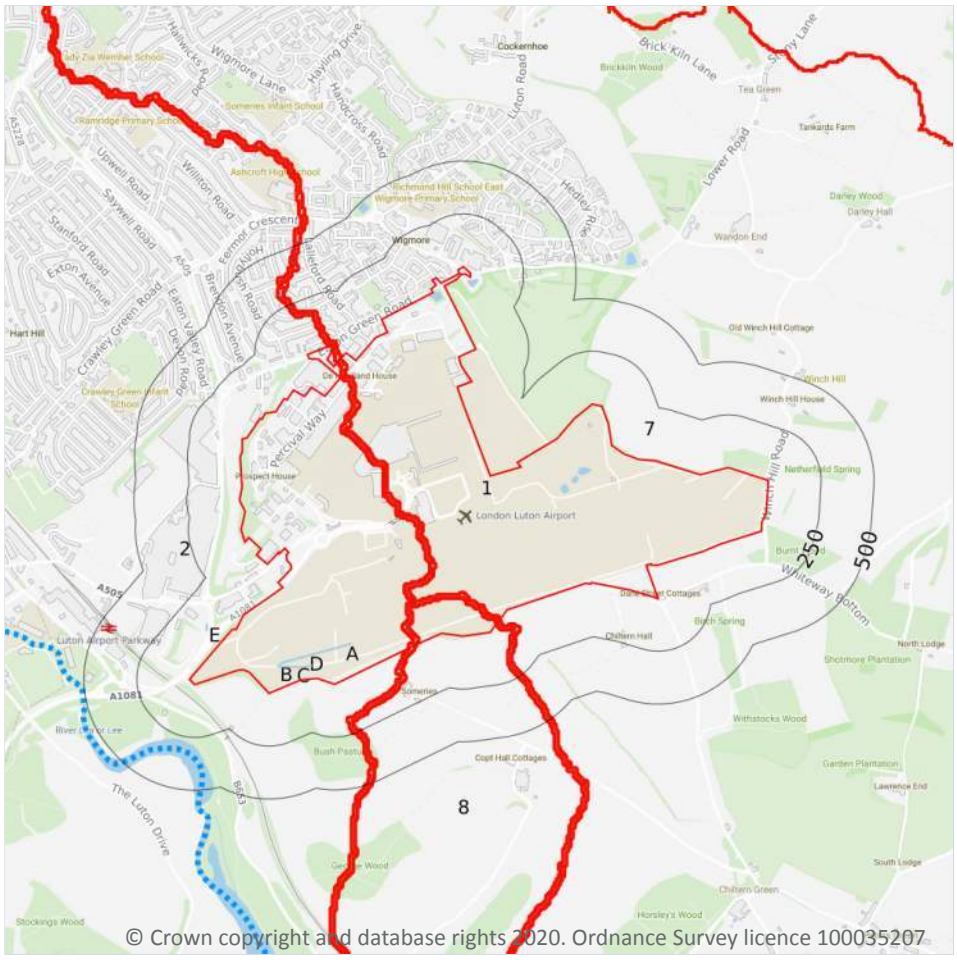
5.10 Source Protection Zones (confined aquifer)

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.

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	**8**

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 92**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	**On site**	**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
A	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
C	**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.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
E	89m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**3**

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 92**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	**3**

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 92**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	**On site**	**River WB catchment**	**Lee (from Luton to Luton Hoo Lakes)**	**GB106038033391**	**Upper Lee**	**Upper Lee**
7	**On site**	**River WB catchment**	**Mimram (Codicote Bottom to Lee)**	**GB106038033270**	**Upper Lee**	**Upper Lee**
8	**On site**	**River WB catchment**	**Lee (from Luton Hoo Lakes to Hertford)**	**GB106038033392**	**Upper Lee**	**Upper Lee**

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

6.4 WFD Surface water bodies

Records identified	**3**

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 92**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
12	314m S	River	Lee (from Luton to Luton Hoo Lakes)	GB106038033391	Bad	Good	Bad	2016
-	1673m S	River	Lee (from Luton Hoo Lakes to Hertford)	GB106038033392	Moderate	Good	Moderate	2016
-	6654m SE	River	Mimram (Codicote Bottom to Lee)	GB106038033270	Moderate	Good	Moderate	2016

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

6.5 WFD Groundwater bodies

Records on site	1

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 92**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	**On site**	**Upper Lee Chalk**	**GB40601G602900**	**Poor**	**Poor**	**Poor**	**2015**

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

7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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), Medium (less than 1 in 30 but greater than or equal to 1 in 100 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.

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

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.

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

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.

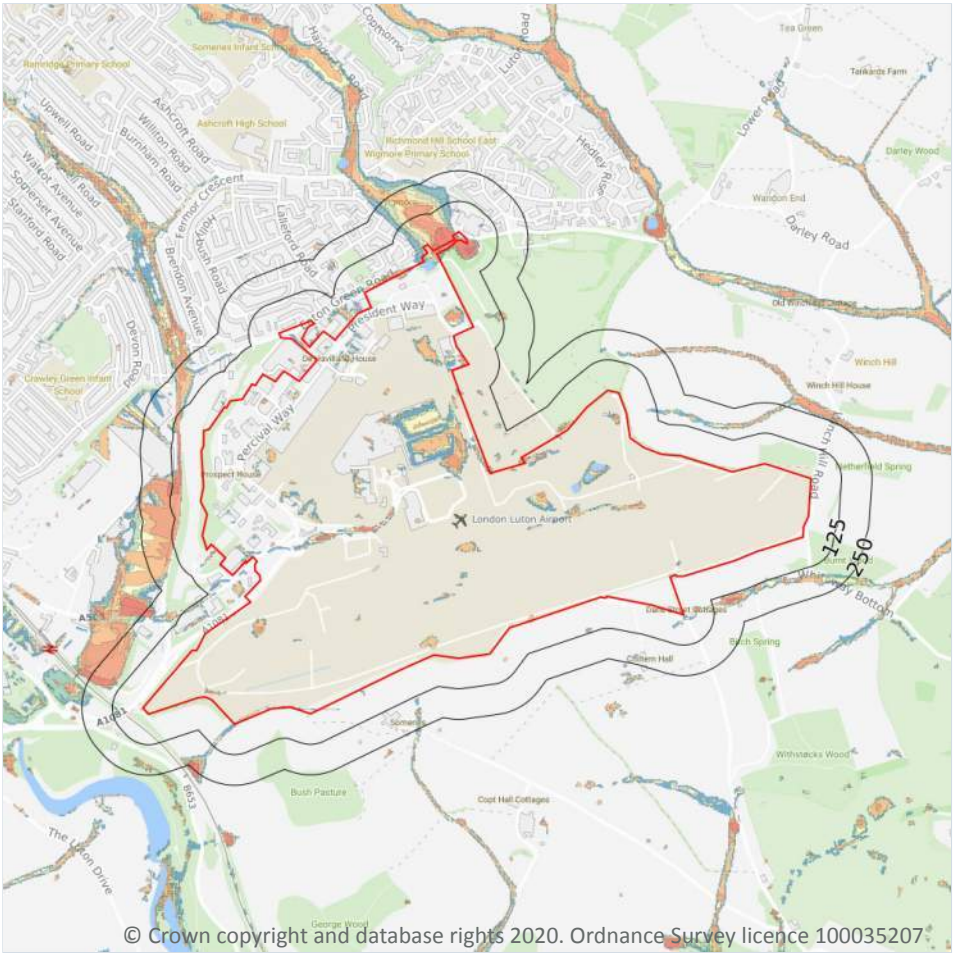
7.7 Flood Zone 3

Records within 50m	0

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.

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

8 Surface water flooding



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Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

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 99**

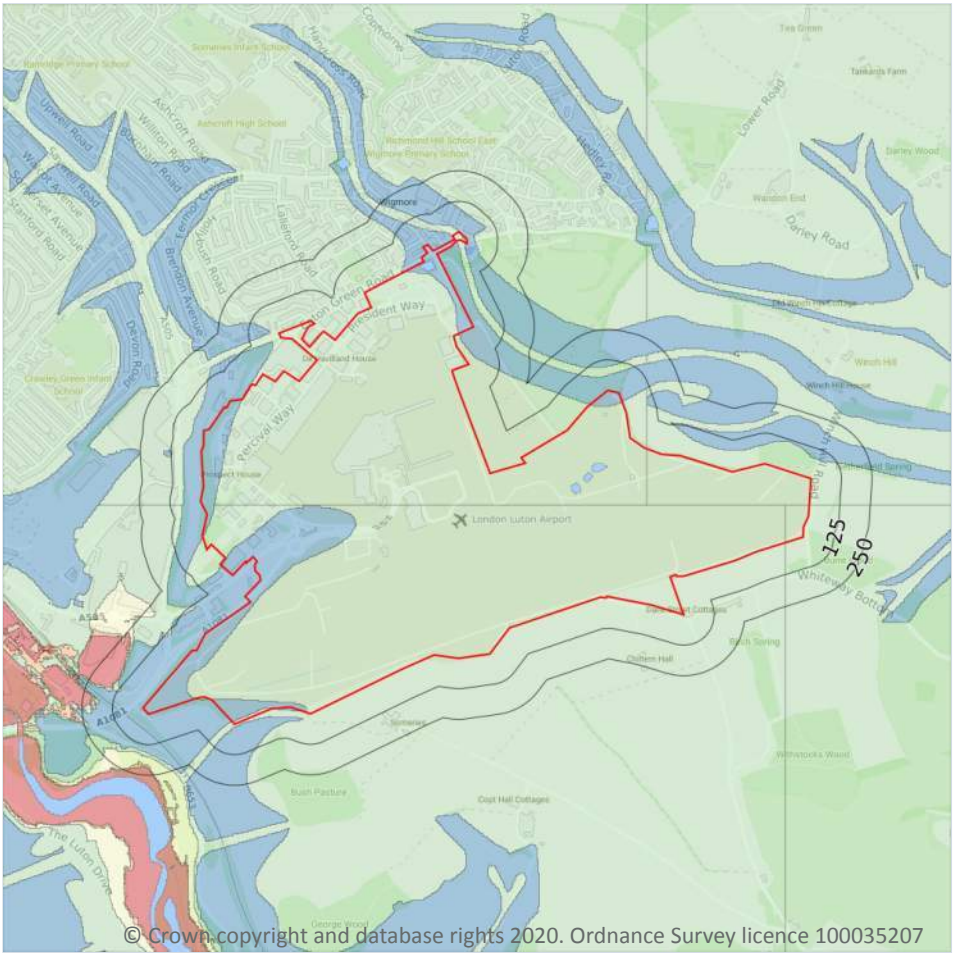
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on

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



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Site Outline

Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

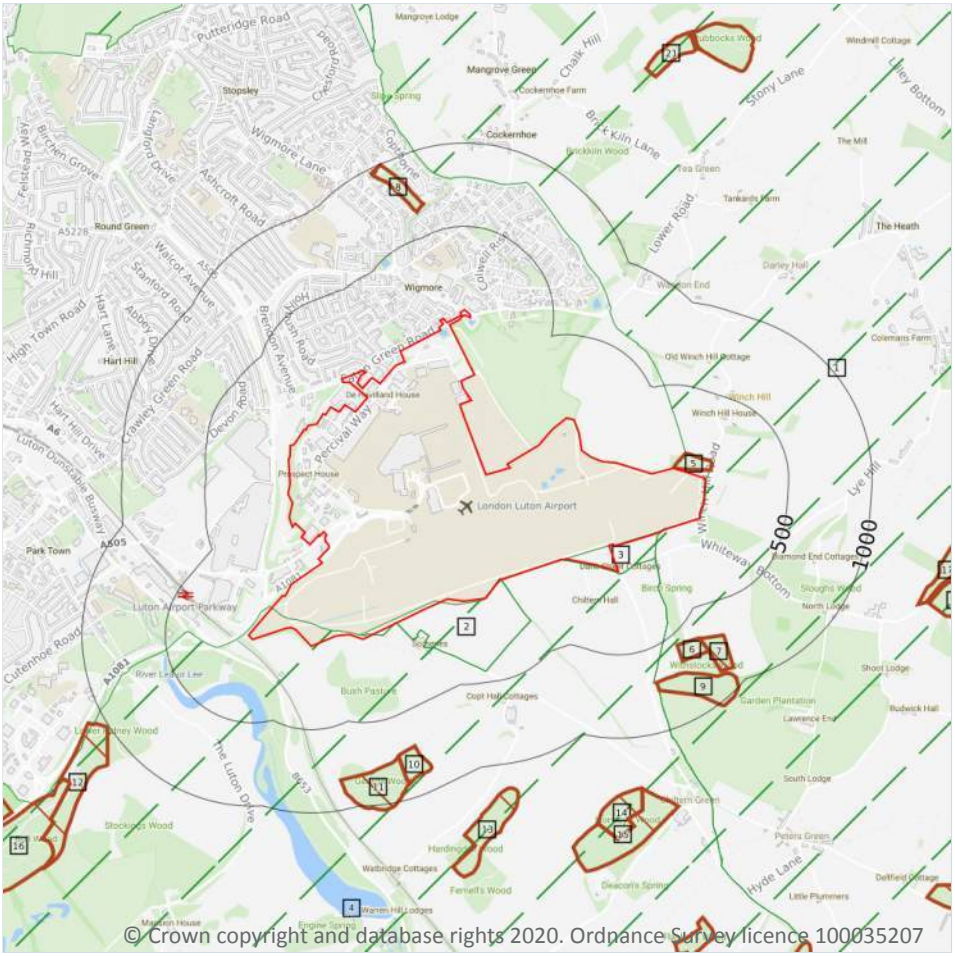
Highest risk on site	**Low**
Highest risk within 50m	**Low**

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 101**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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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 re-notified 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.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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	18

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 102**

ID	Location	Name	Woodland Type
5	4m N	Winchill Wood	Ancient & Semi-Natural Woodland
6	567m SE	Withstocks Wood	Ancient Replanted Woodland
7	633m SE	Withstocks Wood	Ancient & Semi-Natural Woodland
8	652m NW	Slaughters Wood	Ancient & Semi-Natural Woodland
9	704m SE	Withstocks Wood	Ancient & Semi-Natural Woodland
10	712m SE	George Wood	Ancient Replanted Woodland
11	733m S	George Wood	Ancient & Semi-Natural Woodland
12	1015m SW	Kidney/bulls Woods	Ancient & Semi-Natural Woodland
13	1148m S	Hardingdell Woods	Ancient Replanted Woodland
14	1308m S	Horsleys Wood	Ancient & Semi-Natural Woodland
15	1310m S	Horsleys Wood	Ancient Replanted Woodland
16	1392m SW	Kidney/bulls Woods	Ancient Replanted Woodland
17	1407m E	Sewetts Wood	Ancient Replanted Woodland
18	1465m E	Sewetts Wood	Ancient & Semi-Natural Woodland
20	1774m SW	Kidney/bulls Woods	Ancient Replanted Woodland

ID	Location	Name	Woodland Type
21	1807m NE	Stubbocks Wood	Ancient Replanted Woodland
-	1870m S	Birch Wood	Ancient & Semi-Natural Woodland
-	1968m NE	Watkins/lords Woods	Ancient Replanted Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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.

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	5

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

Features are displayed on the Environmental designations map on **page 102**

ID	Location	Name	Local Authority name
1	**On site**	**London area**	**North Hertfordshire**
2	**On site**	**London area**	**Luton**
3	**On site**	**London area**	**Luton**
4	**On site**	**London area**	**Central Bedfordshire**
19	1642m N	London area	Luton

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.

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

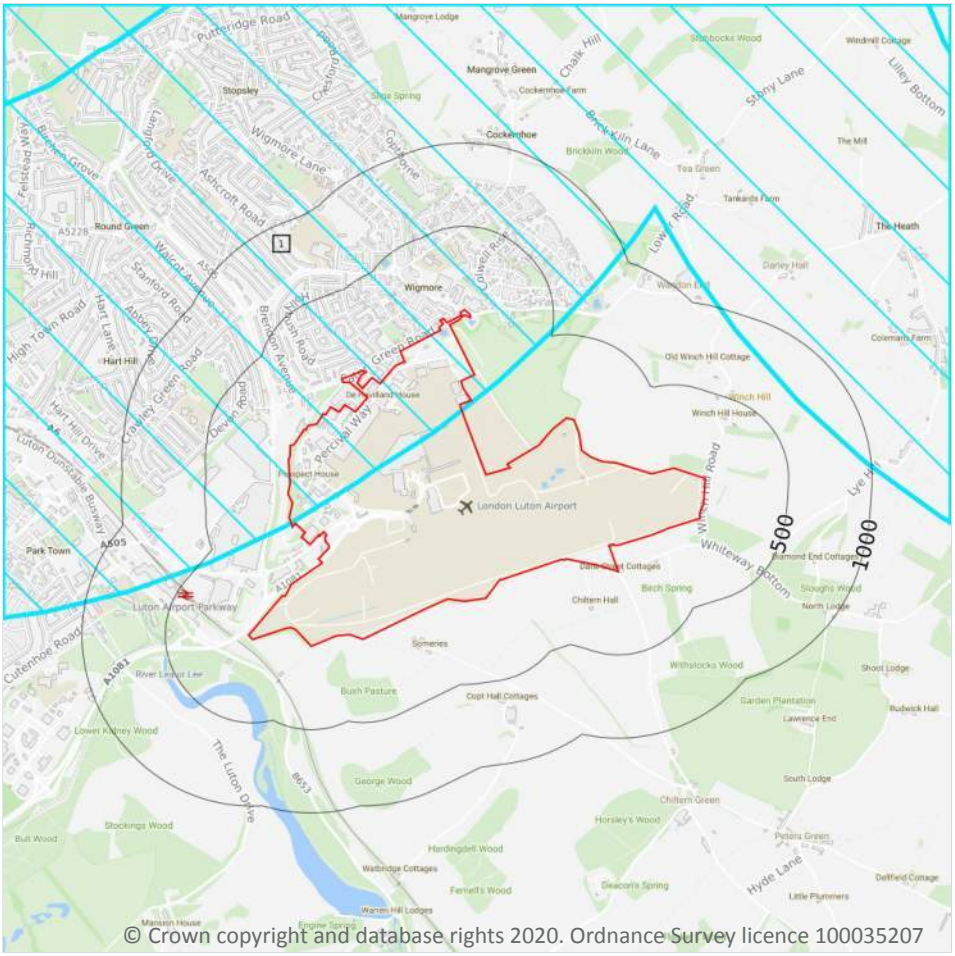
Records within 2000m	4

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	Type	NVZ ID	Status
On site	**LEE NVZ**	**Surface Water**	**S443**	**Existing**
On site	**Luton Chalk**	**Groundwater**	**G146**	**Existing**
438m E	Luton Chalk	Groundwater	G146	Existing
438m E	LEE NVZ	Surface Water	S443	Existing

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

SSSI Impact Zones and Units



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10.17 SSSI Impact Risk Zones

Records on site	1

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 108**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.**

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.

11 Visual and cultural designations

Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

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	0

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.

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

11.5 Conservation Areas

Records within 250m	0

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.

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

11.6 Scheduled Ancient Monuments

Records within 250m	1

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.

Features are displayed on the Visual and cultural designations map on **page 110**

ID	Location	Ancient monument name	Reference number
2	212m SE	Someries Castle: a medieval magnate's residence and formal garden remains	1008452

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

11.7 Registered Parks and Gardens

Records within 250m	1

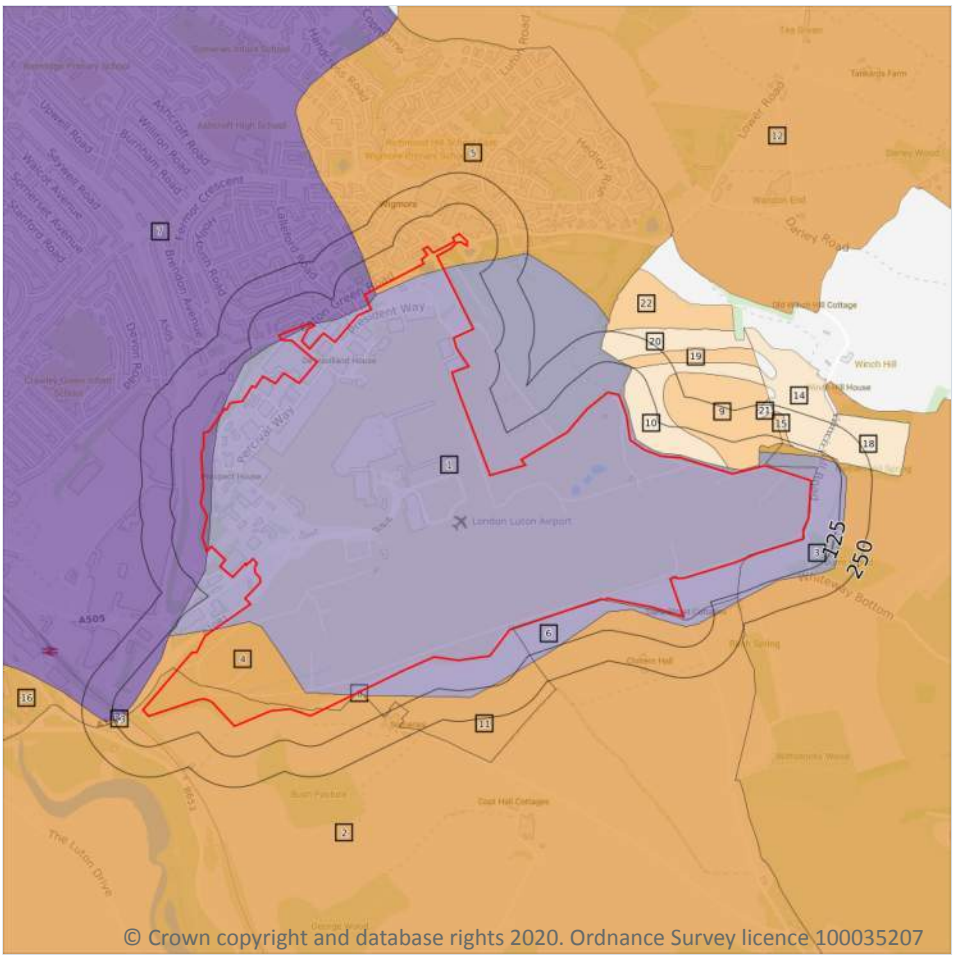
Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the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

Features are displayed on the Visual and cultural designations map on **page 110**

ID	Location	Name	Grade
1	152m S	Luton Hoo	II*

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	21

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 113**

ID	Location	Classification	Description
1	**On site**	**Non Agricultural**	-

ID	Location	Classification	Description
2	**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.**
3	**On site**	**Non Agricultural**	**-**
4	**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.**
5	**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.**
6	**On site**	**Non Agricultural**	**-**
7	**On site**	**Urban**	**-**
8	**On site**	**Non Agricultural**	**-**
9	7m N	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.
10	11m N	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.
11	20m SE	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.
12	62m N	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.
13	97m W	Urban	-
14	107m N	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
15	109m N	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.
16	110m W	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.
18	116m N	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.
19	119m NE	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.
20	137m N	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.
21	190m N	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.
22	248m N	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.

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	0

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.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	3

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

Location	Reference	Scheme	Start Date	End date
On site	**AG00418187**	**Entry Level plus Higher Level Stewardship**	**01/06/2013**	**31/05/2023**
15m E	AG00418187	Entry Level plus Higher Level Stewardship	01/06/2013	31/05/2023
53m SE	AG00418187	Entry Level plus Higher Level Stewardship	01/06/2013	31/05/2023

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

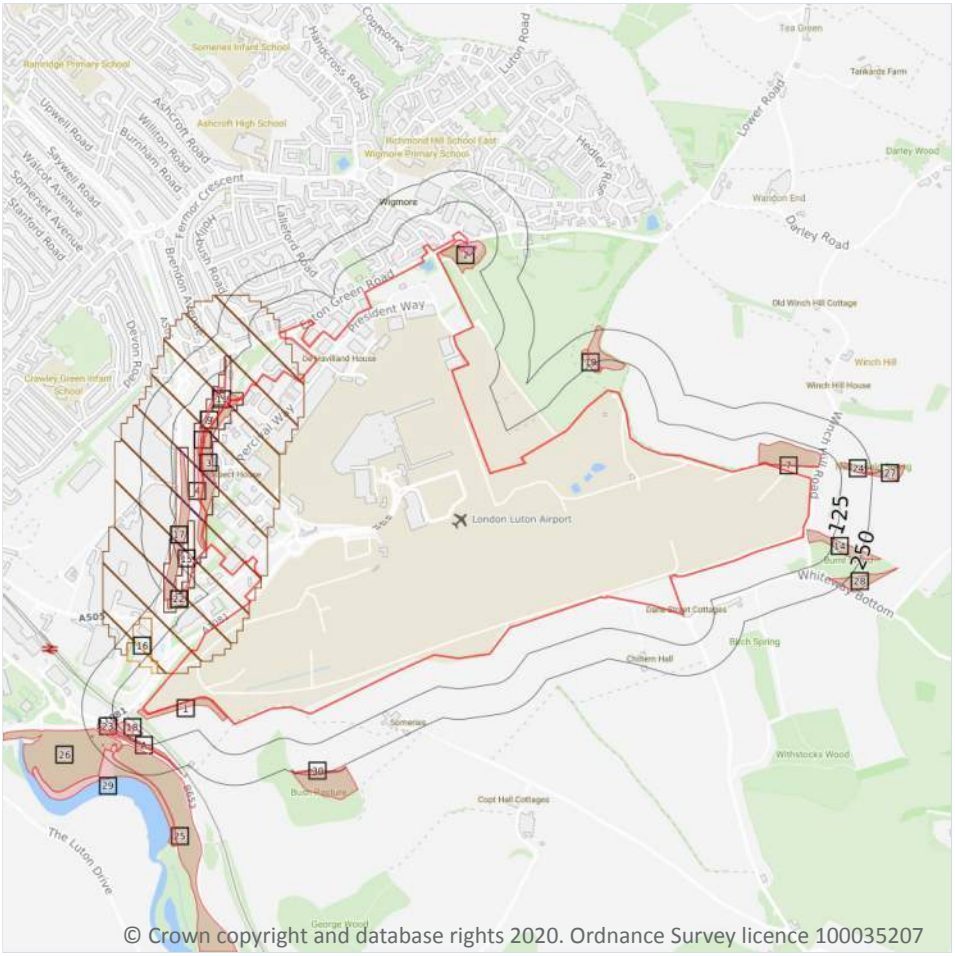
Records within 250m	1

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
16m E	491651	Woodland Management Plan	01/05/2018	30/04/2020

This data is sourced from Natural England.

13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m	28

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 **page 117**

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	On site	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%)
6	On site	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%)

ID	Location	Main Habitat	Other habitats
7	1m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	2m N	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%)
10	4m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	14m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
14	16m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	47m W	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%)
18	78m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	79m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
20	85m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
21	86m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
22	106m SW	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%)
23	114m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	117m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	127m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
24	135m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
25	149m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	152m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	153m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
26	161m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
27	185m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
28	198m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
29	212m SW	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
30	229m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
31	236m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	7

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.

Features are displayed on the Habitat designations map on **page 117**

ID	Location	Type	Habitat
4	**On site**	**Primary Habitat**	**Lowland calcareous grassland**
5	**On site**	**Network Enhancement Zone 2**	**Not specified**
9	2m NW	Network Enhancement Zone 2	Not specified
11	8m N	Network Enhancement Zone 2	Not specified
12	10m NW	Network Enhancement Zone 2	Not specified
15	33m W	Network Enhancement Zone 2	Not specified
16	46m NW	Network Enhancement Zone 1	Not specified

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.

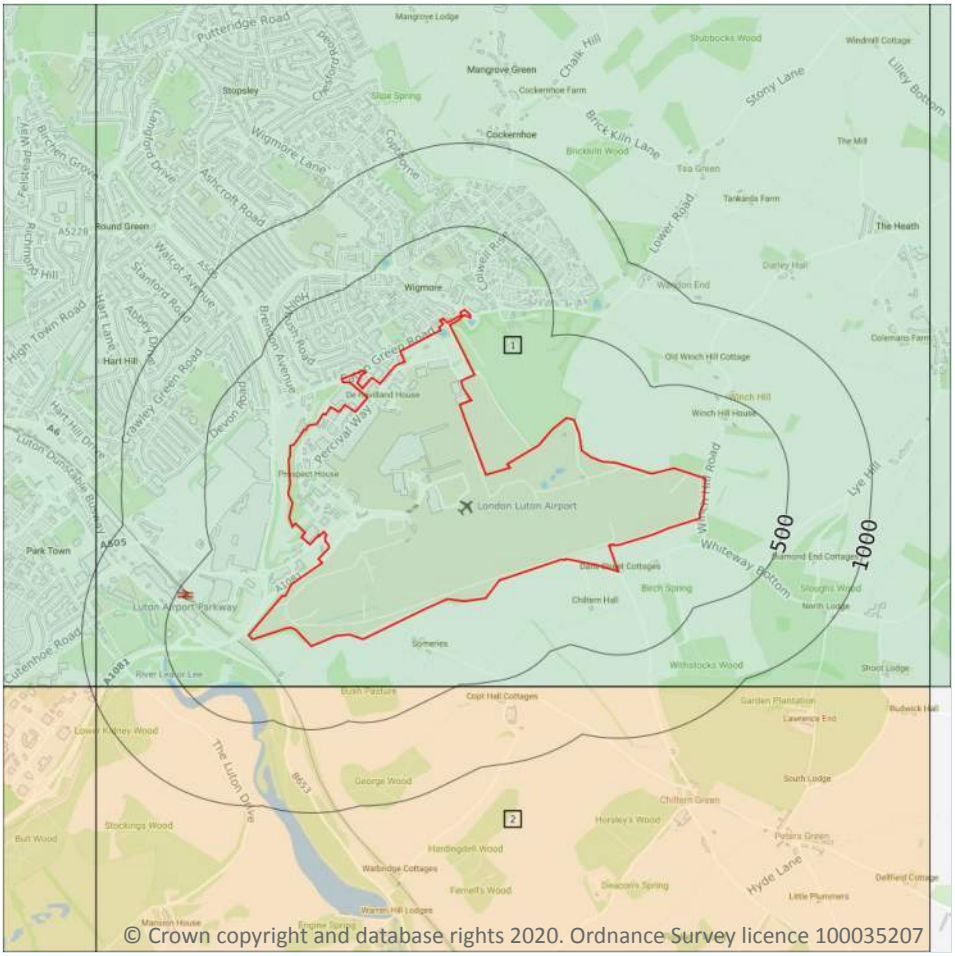
13.4 Limestone Pavement Orders

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	2

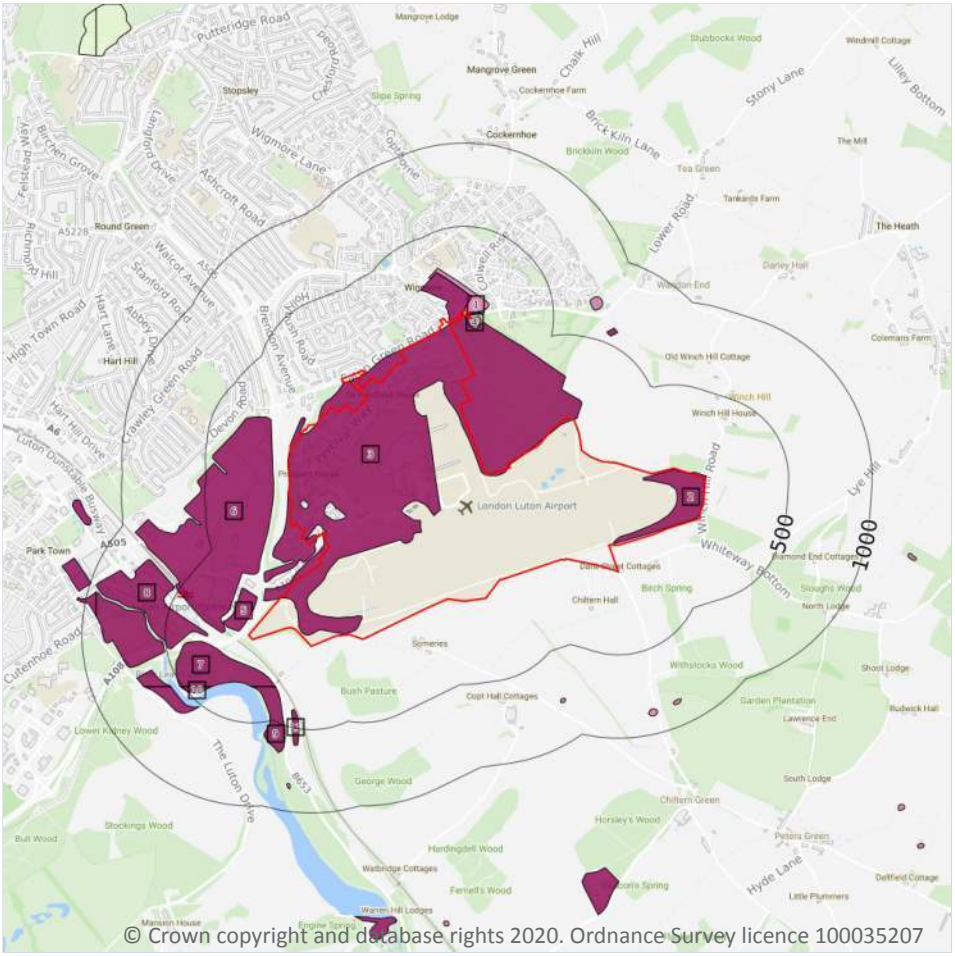
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 121**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**TL12SW**
2	241m S	Full	Partial	Partial	No coverage	TL11NW

This data is sourced from the British Geological Survey.

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



14.2 Artificial and made ground (10k)

Records within 500m	11

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.

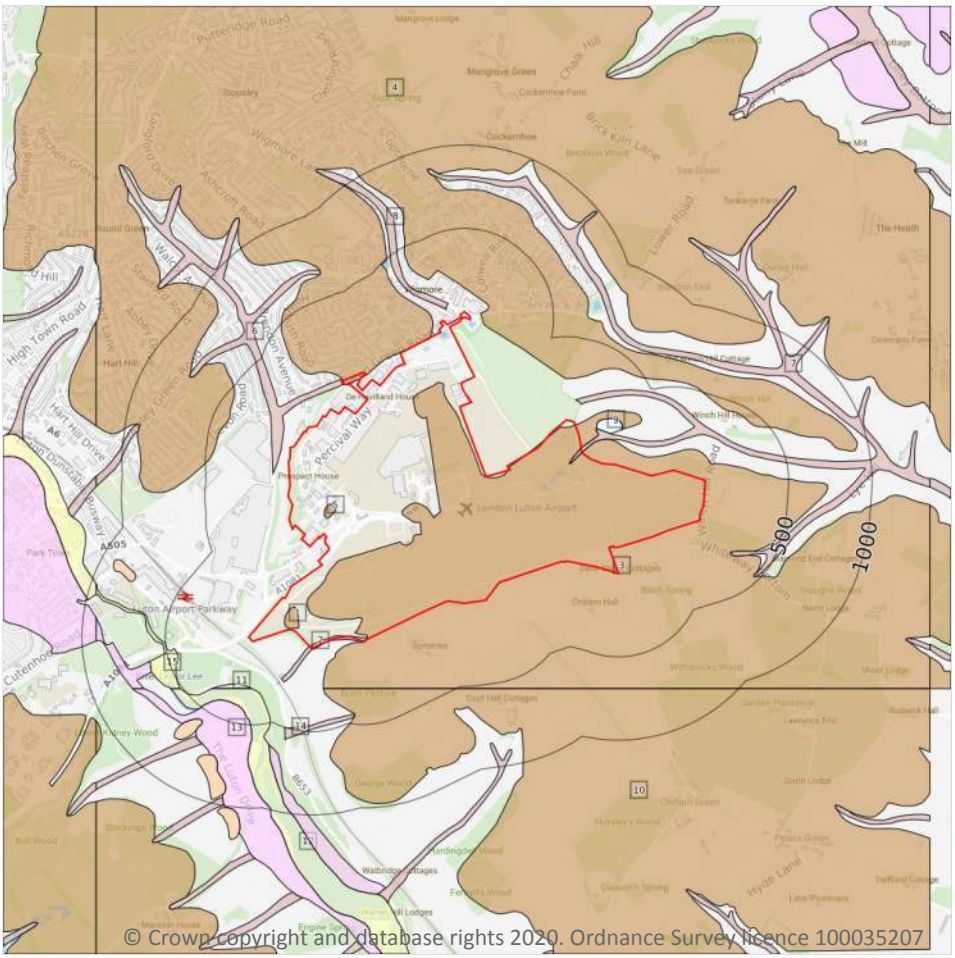
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 122**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
2	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
3	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
4	1m S	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
5	60m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	87m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	157m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	245m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	283m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	373m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
11	392m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	15

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 124**

ID	Location	LEX Code	Description	Rock description
1	On site	CWF-DMTN	Clay-with-flints Formation - Diamicton	Diamicton
2	On site	HEAD-DMTN	Head - Diamicton	Diamicton
3	On site	CWF-DMTN	Clay-with-flints Formation - Diamicton	Diamicton

ID	Location	LEX Code	Description	Rock description
4	**On site**	**CWF-DMTN**	**Clay-with-flints Formation - Diamicton**	**Diamicton**
5	**On site**	**CWF-DMTN**	**Clay-with-flints Formation - Diamicton**	**Diamicton**
6	**On site**	**HEAD-DMTN**	**Head - Diamicton**	**Diamicton**
7	**On site**	**HEAD-DMTN**	**Head - Diamicton**	**Diamicton**
8	71m N	HEAD-DMTN	Head - Diamicton	Diamicton
9	116m E	TILL-DMTN	Till - Diamicton	Diamicton
10	252m S	CWF-DMTN	Clay-with-flints Formation - Diamicton	Diamicton
11	267m S	ALV-XCZS	Alluvium - Clay, Silt And Sand	Clay, Silt And Sand
12	283m S	ALV-XCZS	Alluvium - Clay, Silt And Sand	Clay, Silt And Sand
13	388m S	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
14	438m S	HEAD-DMTN	Head - Diamicton	Diamicton
15	438m W	ALV-XCZS	Alluvium - Clay, Silt And Sand	Clay, Silt And Sand

This data is sourced from the British Geological Survey.

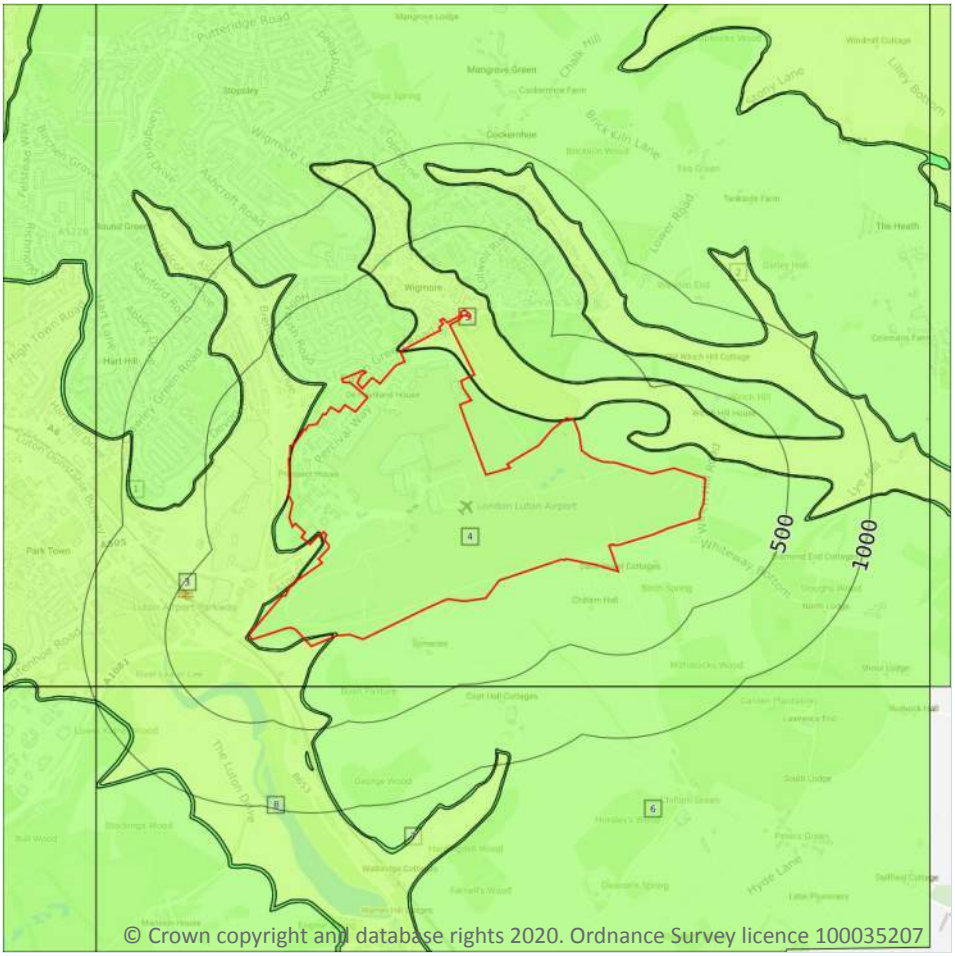
14.4 Landslip (10k)

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.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search 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	8

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 126**

ID	Location	LEX Code	Description	Rock age
1	On site	CKR-CHLK	Chalk Rock Member - Chalk	Turonian Age
2	On site	CKR-CHLK	Chalk Rock Member - Chalk	Turonian Age
3	On site	HNCK-CHLK	Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk	Turonian Age - Cenomanian Age

ID	Location	LEX Code	Description	Rock age
4	**On site**	**LECH-CHLK**	**Lewes Nodular Chalk Formation - Chalk**	**Coniacian Age - Turonian Age**
5	**On site**	**HNCK-CHLK**	**Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk**	**Turonian Age - Cenomanian Age**
6	241m S	LECH-CHLK	Lewes Nodular Chalk Formation - Chalk	Coniacian Age - Turonian Age
7	244m S	CKR-CHLK	Chalk Rock Member - Chalk	Turonian Age
8	246m S	HNCK-CHLK	Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk	Turonian Age - Cenomanian Age

This data is sourced from the British Geological Survey.

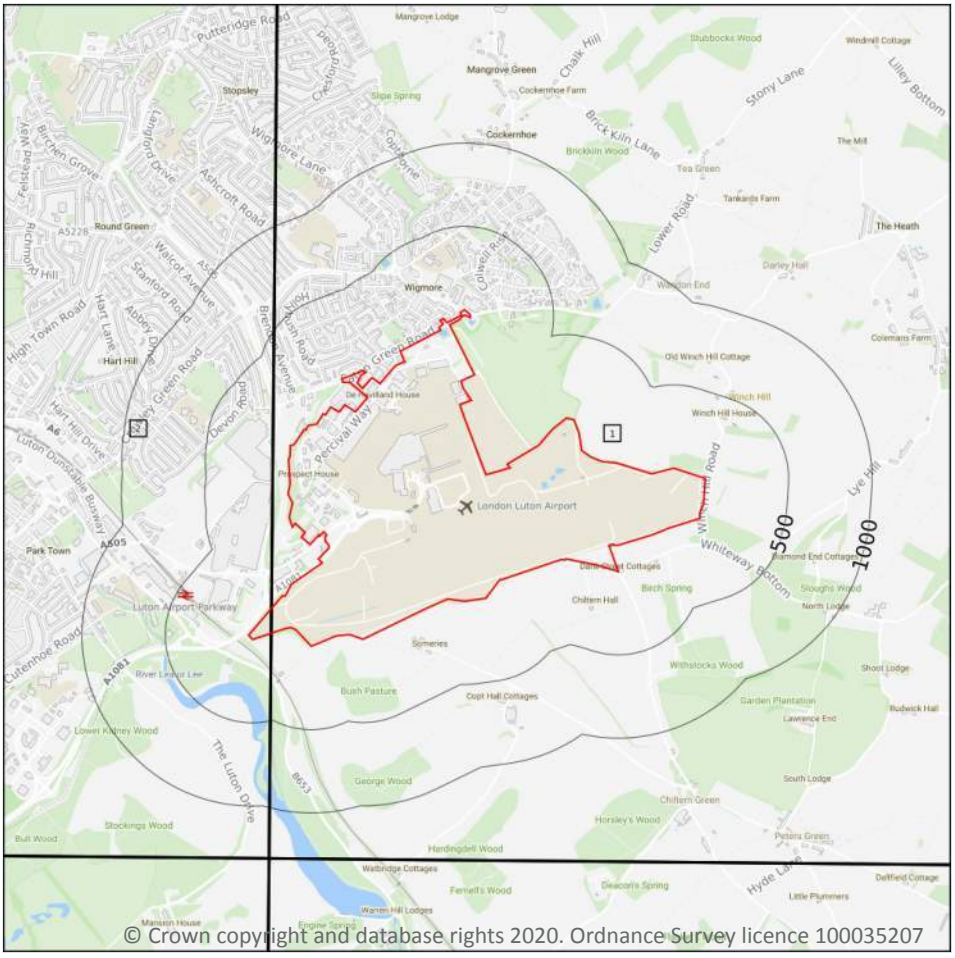
14.6 Bedrock faults and other linear features (10k)

Records within 500m	**0**

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.

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



15.1 50k Availability

Records within 500m	2

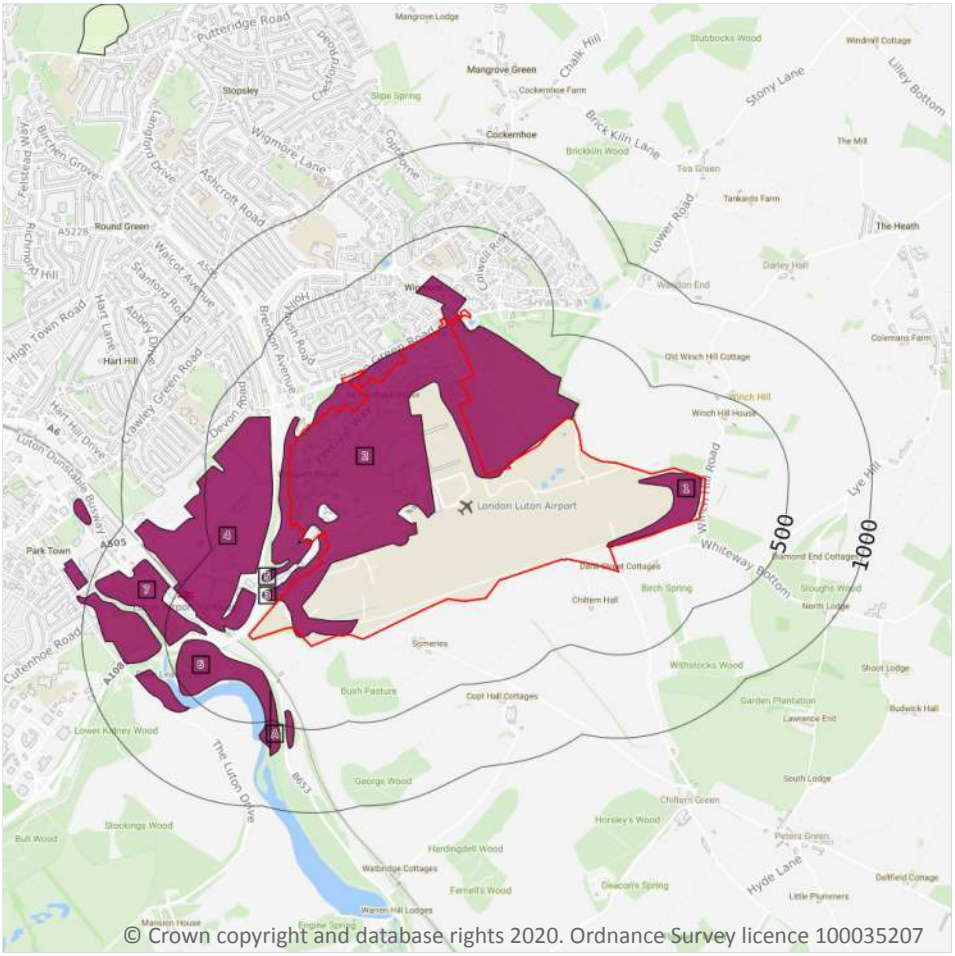
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 128**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW221_hitchin_v4
2	On site	Full	Full	Full	Full	EW220_leighton_buzzard_v4

This data is sourced from the British Geological Survey.

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



15.2 Artificial and made ground (50k)

Records within 500m	9

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 129**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**MGR-ARTDP**	**MADE GROUND (UNDIVIDED)**	**ARTIFICIAL DEPOSIT**
2	**On site**	**MGR-ARTDP**	**MADE GROUND (UNDIVIDED)**	**ARTIFICIAL DEPOSIT**
3	29m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	66m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

ID	Location	LEX Code	Description	Rock description
5	118m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	150m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
7	252m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
A	320m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
A	410m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

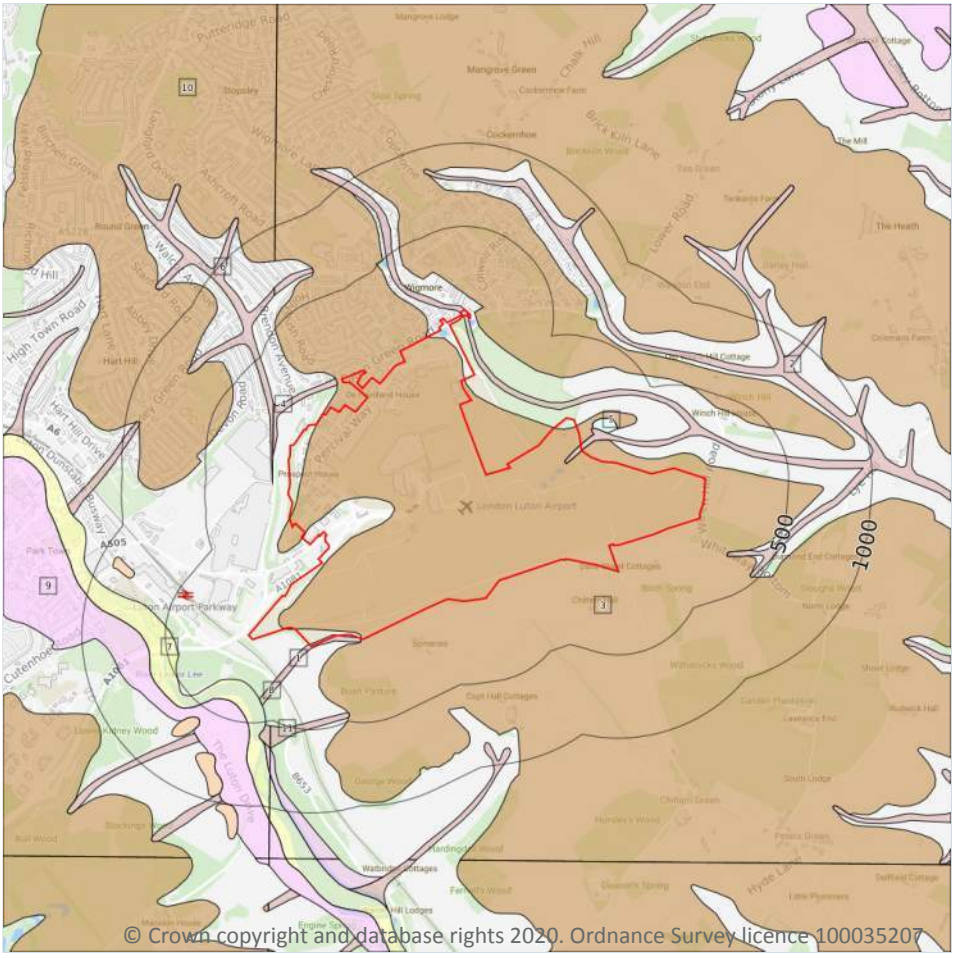
Records within 50m	**2**

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).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**Very High**	**Low**
On site	**Mixed**	**Very High**	**Low**

This data is sourced from the British Geological Survey.

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	11

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 131**

ID	Location	LEX Code	Description	Rock description
1	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
2	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
3	On site	CWF-XCZSV	CLAY-WITH-FLINTS FORMATION	CLAY, SILT, SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
4	32m SW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
5	90m E	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
6	94m W	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
7	256m S	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
8	297m S	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
9	391m S	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
10	415m NW	CWF-XCZSV	CLAY-WITH-FLINTS FORMATION	CLAY, SILT, SAND AND GRAVEL
11	438m S	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 **4**

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	**Mixed**	**High**	**Very Low**
On site	**Mixed**	**High**	**Very Low**
On site	**Mixed**	**High**	**Very Low**
32m NW	Mixed	High	Very 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.

This data is sourced from the British Geological Survey.

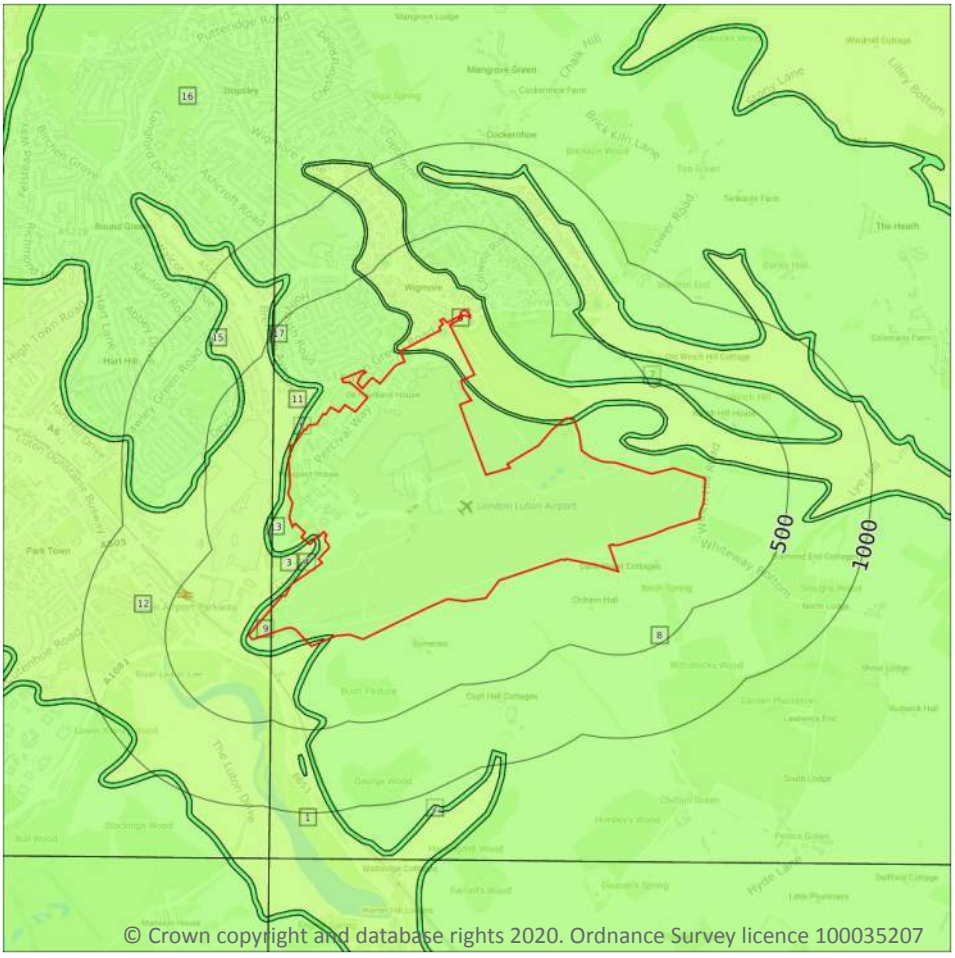
15.7 Landslip permeability (50k)

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).

This data is sourced from the British Geological Survey.

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	18

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 134**

ID	Location	LEX Code	Description	Rock age
1	On site	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN
2	On site	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
3	On site	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN

ID	Location	LEX Code	Description	Rock age
4	**On site**	**CKR-CHLK**	**CHALK ROCK MEMBER - CHALK**	**TURONIAN**
5	**On site**	**CKR-CHLK**	**CHALK ROCK MEMBER - CHALK**	**TURONIAN**
6	**On site**	**HNCK-CHLK**	**HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK**	**CENOMANIAN**
7	**On site**	**CKR-CHLK**	**CHALK ROCK MEMBER - CHALK**	**TURONIAN**
8	**On site**	**LESE-CHLK**	**LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK**	**TURONIAN**
9	**On site**	**LESE-CHLK**	**LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK**	**TURONIAN**
10	8m NW	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
11	12m W	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN
12	38m NW	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN
13	102m W	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
14	106m W	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
15	344m NW	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
16	374m NW	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
17	405m NW	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
18	427m W	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **5**

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**	**Very High**	**Very High**
On site	**Fracture**	**Very High**	**Very High**

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Very High**	**Very High**
On site	**Fracture**	**Very High**	**Very High**
On site	**Fracture**	**Very High**	**Very High**

This data is sourced from the British Geological Survey.

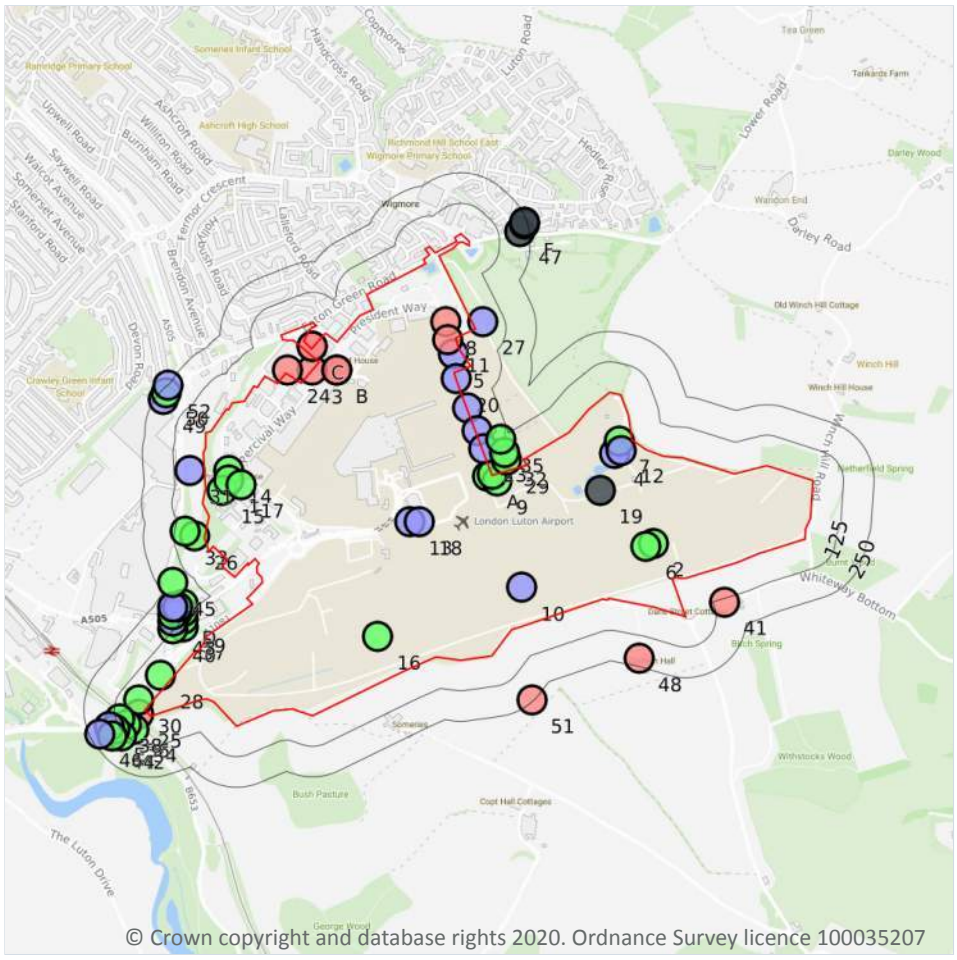
15.10 Bedrock faults and other linear features (50k)

Records within 500m	**0**

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.

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m	68

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 137**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	511260 221250	LUTON AIRPORT 2	15.05	N	18463003
2	On site	513000 220990	LUTON AIRPORT NO.1	17.06	N	528440

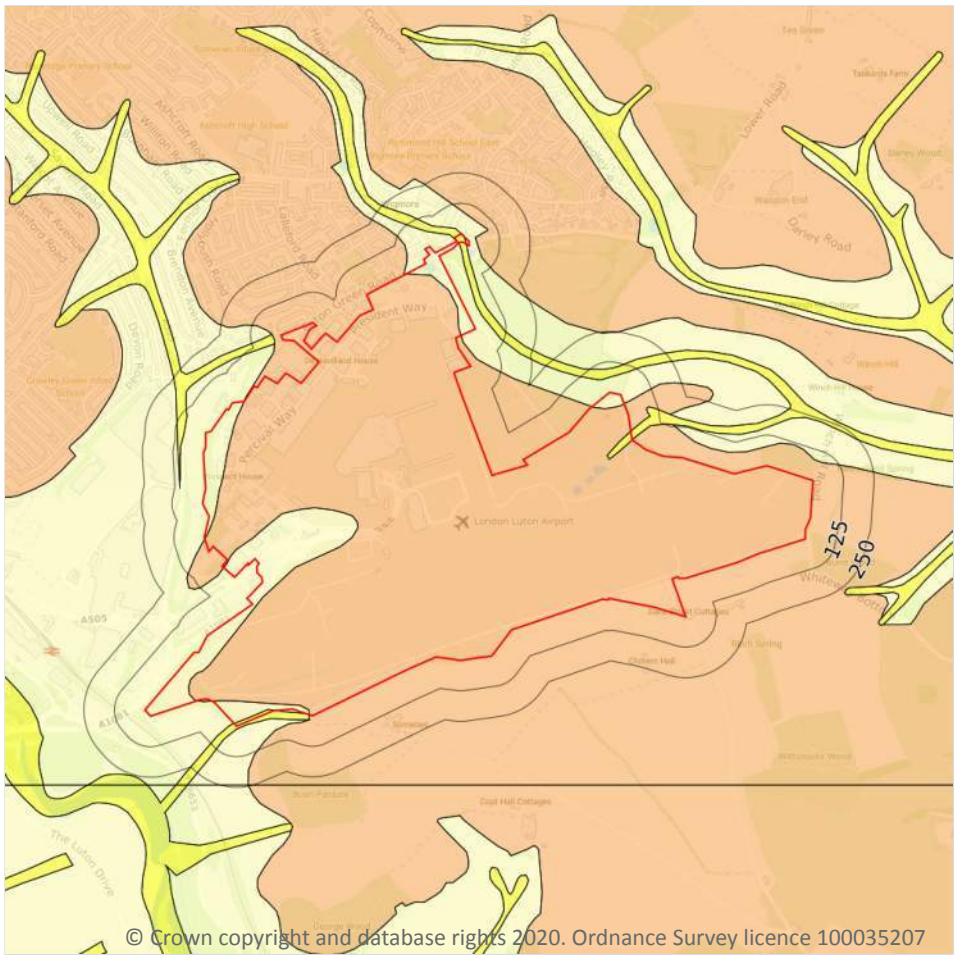
ID	Location	Grid reference	Name	Length	Confidential	Web link
3	**On site**	**511600 221700**	**LUTON AIRPORT**	**50.9**	**N**	**528528**
4	**On site**	**512838 221359**	**LUTON INTERNATIONAL AIR. BH8**	**5.0**	**N**	**528613**
5	**On site**	**512181 221766**	**LUTON INTERNATIONAL AIR. BH16**	**6.85**	**N**	**528619**
6	**On site**	**512970 220980**	**LUTON AIRPORT**	**17.07**	**N**	**528544**
7	**On site**	**512860 221411**	**LUTON INTERNATIONAL AIR. BH9**	**16.5**	**N**	**528614**
8	**On site**	**512150 221900**	**LUTON AIRPORT BEDFORDSHIRE**	**67.0**	**N**	**528653**
9	**On site**	**512359 221247**	**LUTON INTERNATIONAL AIR. BH3**	**28.0**	**N**	**528608**
10	**On site**	**512460 220810**	**LUTON AIRPORT NO.2**	**9.14**	**N**	**528441**
11	**On site**	**512154 221827**	**LUTON INTERNATIONAL AIR. BH17**	**87.95**	**N**	**528620**
12	**On site**	**512868 221373**	**LUTON INTERNATIONAL AIR. BH7**	**5.0**	**N**	**528612**
13	**On site**	**512000 221080**	**LUTON AIRPORT 11**	**8.0**	**N**	**18463009**
14	**On site**	**511260 221290**	**LUTON AIRPORT 4**	**14.0**	**N**	**18463005**
15	**On site**	**511230 221210**	**LUTON AIRPORT 1**	**25.0**	**N**	**18463001**
16	**On site**	**511870 220610**	**LUTON AIRPORT NO.3**	**10.66**	**N**	**528442**
17	**On site**	**511310 221230**	**LUTON AIRPORT 3**	**14.0**	**N**	**18463004**
18	**On site**	**512040 221080**	**LUTON AIRPORT 10**	**7.9**	**N**	**18463008**
19	**On site**	**512780 221210**	**LUTON AIRPORT 1**	**-**	**Y**	**N/A**
A	**On site**	**512319 221267**	**LUTON INTERNATIONAL AIR. BH1**	**17.0**	**N**	**528606**
B	**On site**	**511700 221700**	**LUTON AIRPORT**	**42.67**	**N**	**528665**
B	**On site**	**511700 221700**	**LUTON AIRPORT**	**51.82**	**N**	**528663**
20	2m E	512192 221666	LUTON INTERNATIONAL AIR. BH15	7.95	N	528618
A	3m N	512340 221274	LUTON INTERNATIONAL AIR. BH2	14.0	N	528607
21	5m E	512238 221548	LUTON INTERNATIONAL AIR. BH14	7.1	N	528617
C	6m NW	511600 221800	LUTON AIRPORT	54.86	N	528543
C	6m NW	511600 221800	LUTON AIRPORT	51.82	N	528660
22	7m E	512276 221454	LUTON INTERNATIONAL AIR. BH13	5.45	N	528616
23	8m E	512305 221380	LUTON INTERNATIONAL AIR. BH12	6.45	N	528615
24	13m NE	511500 221700	LUTON AIRPORT	35.97	N	528664

ID	Location	Grid reference	Name	Length	Confidential	Web link
25	31m SW	510890 220290	LUTON EASTERN BY-PASS 43	32.0	N	528467
26	39m W	511120 221020	LUTON EASTERN BY-PASS 60	26.5	N	528482
27	40m NE	512300 221900	WANDON END	-2.0	N	528669
28	43m NW	510980 220450	LUTON EASTERN BY-PASS 45	12.0	N	528469
29	43m N	512397 221332	LUTON INTERNATIONAL AIR. BH4	26.0	N	528609
30	46m NW	510890 220350	LUTON EASTERN BY-PASS 43A	14.3	N	528468
31	59m W	511100 221290	LUTON EASTERN BY-PASS 61	10.0	N	528483
32	75m N	512388 221363	LUTON INTERNATIONAL AIR. BH5	19.0	N	528610
33	82m W	511080 221040	LUTON EASTERN BY-PASS 59	20.0	N	528481
34	86m SW	510870 220230	LUTON EASTERN BY-PASS 41	19.0	N	528466
35	87m E	512375 221418	LUTON INTERNATIONAL AIR. BH6	13.5	N	528611
36	95m SW	510840 220250	LUTON EASTERN BY-PASS 40	13.0	N	528465
37	106m NW	511070 220650	LUTON EASTERN BY-PASS 48	16.0	N	528471
38	112m W	510810 220270	LUTON EASTERN BY-PASS 39	20.0	N	528464
39	121m NW	511070 220680	LUTON EASTERN BY-PASS 51	13.0	N	528473
40	129m NW	511030 220640	LUTON EASTERN BY-PASS 46	17.0	N	528470
41	140m S	513290 220750	DANE STREET FARM, KING`S WALDEN	34.98	N	528545
D	140m NW	511070 220710	LUTON EASTERN BY-PASS 54	12.5	N	528476
42	143m SW	510820 220200	LUTON EASTERN BY-PASS 37	11.5	N	528463
E	147m SW	510790 220230	LUTON EASTERN BY-PASS 36	20.0	N	528462
43	151m NW	511030 220670	LUTON EASTERN BY-PASS 49	4.5	N	528472
D	155m NW	511050 220710	LUTON EASTERN BY-PASS 53	4.2	N	528475
E	160m SW	510770 220240	LUTON EASTERN BY-PASS 35	9.5	N	528461
D	162m NW	511070 220740	LUTON EASTERN BY-PASS 57	15.0	N	528479
D	165m NW	511030 220700	LUTON EASTERN BY-PASS 52	12.5	N	528474
D	168m NW	511050 220730	LUTON EASTERN BY-PASS 56	6.8	N	528478
44	173m SW	510780 220200	LUTON EASTERN BY-PASS 34	11.3	N	528460
D	183m NW	511030 220730	LUTON EASTERN BY-PASS 55	6.4	N	528477

ID	Location	Grid reference	Name	Length	Confidential	Web link
45	194m SW	511030 220830	LUTON EASTERN BY-PASS 58	18.5	N	528480
46	209m SW	510730 220210	LUTON EASTERN BY-PASS 32	9.0	N	528459
47	210m E	512450 222270	WIGMORE HALL FARM LUTON TH 6	-	Y	N/A
48	218m S	512940 220520	CHILTERN HALL, HYDE	45.26	N	528527
49	221m NW	510990 221580	LUTON EASTERN BY-PASS 63	3.5	N	528485
50	233m NW	511000 221610	LUTON EASTERN BY-PASS 64	11.5	N	528486
F	237m E	512470 222300	WIGMORE HALL FARM LUTON TH 10	-	Y	N/A
F	240m E	512470 222310	WIGMORE HALL FARM LUTON TH 9	-	Y	N/A
51	243m SE	512500 220350	LUTON AIRPORT BEDFORDSHIRE	50.5	N	528652
52	249m NW	511010 221640	LUTON EASTERN BY-PASS 67	5.5	N	528489

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	6

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).

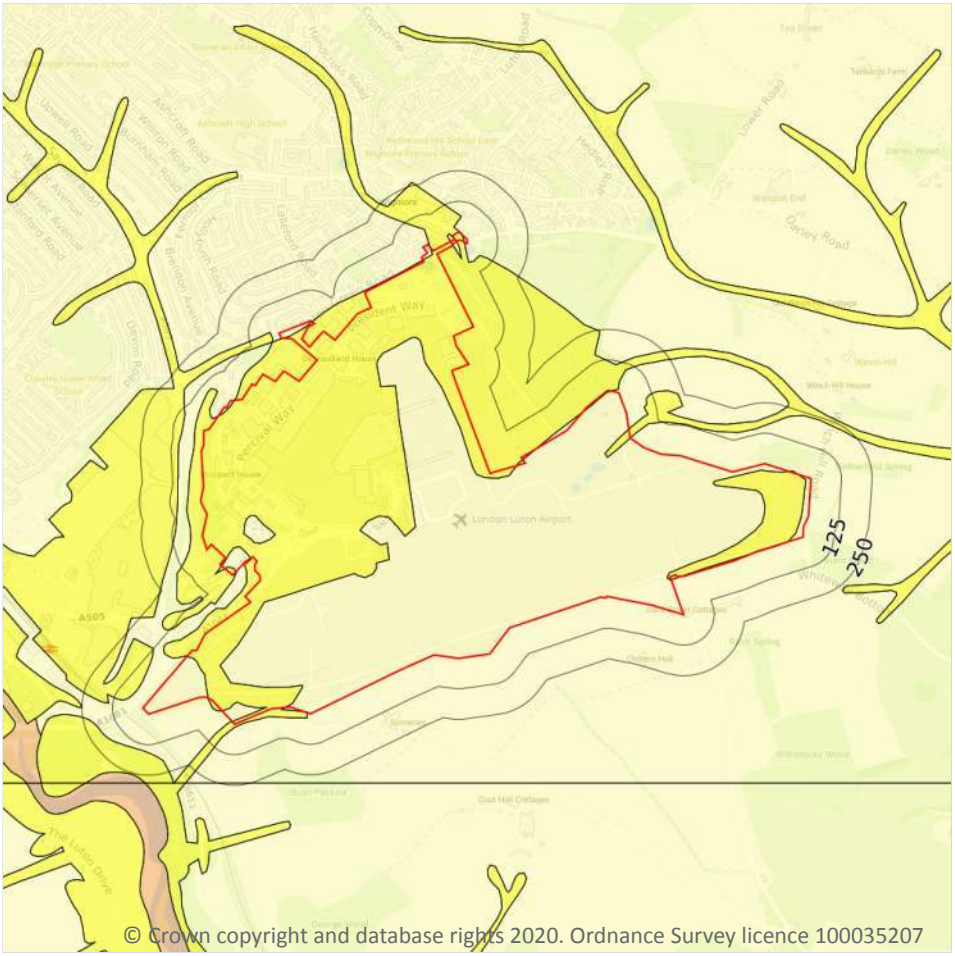
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 141**

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
11m SE	Negligible	Ground conditions predominantly non-plastic.
32m SW	Very low	Ground conditions predominantly low plasticity.
38m W	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	3

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.

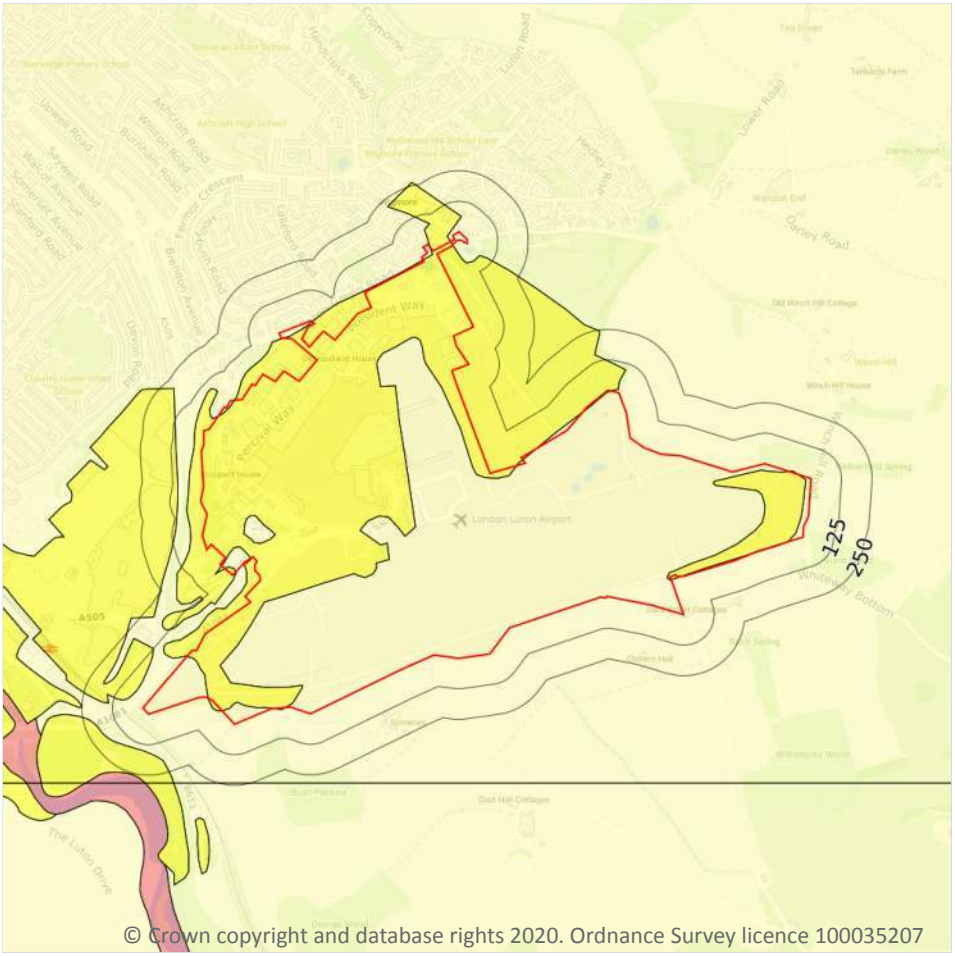
Features are displayed on the Natural ground subsidence - Running sands map on **page 143**

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.**
32m SW	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	2

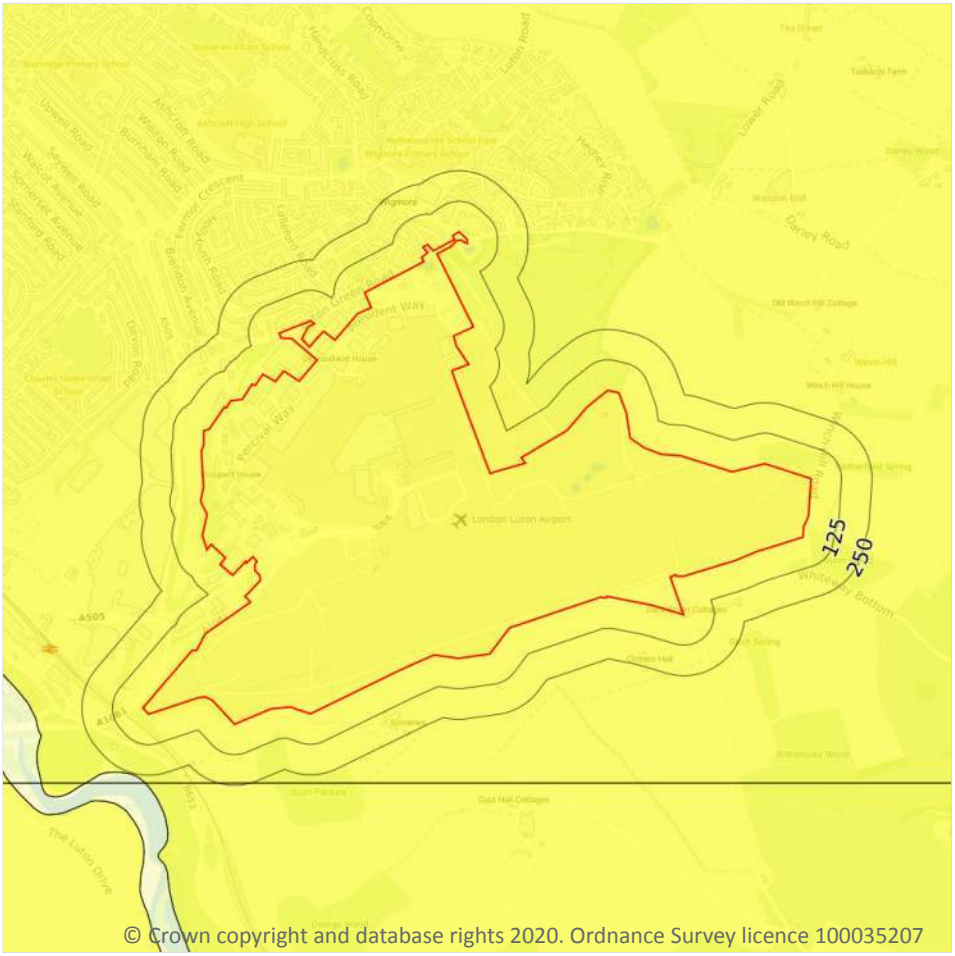
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 145**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
On site	**Very low**	**Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	1

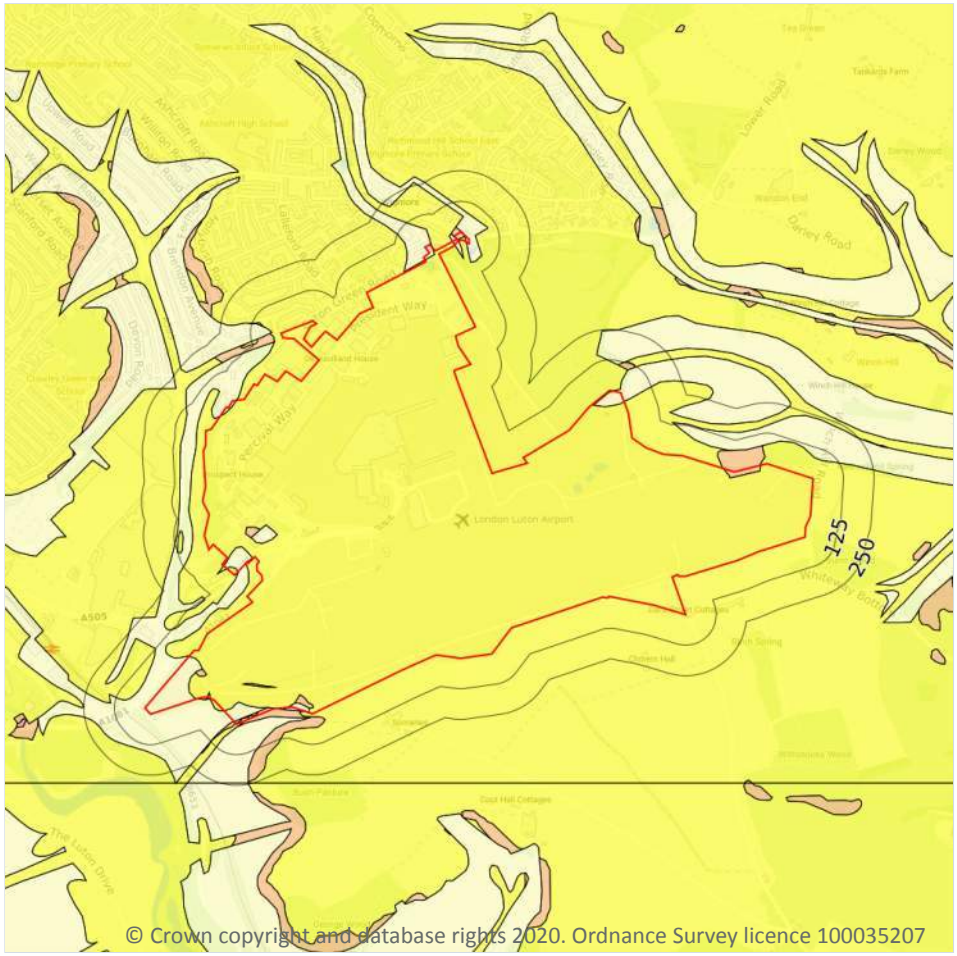
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 147**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	6

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.

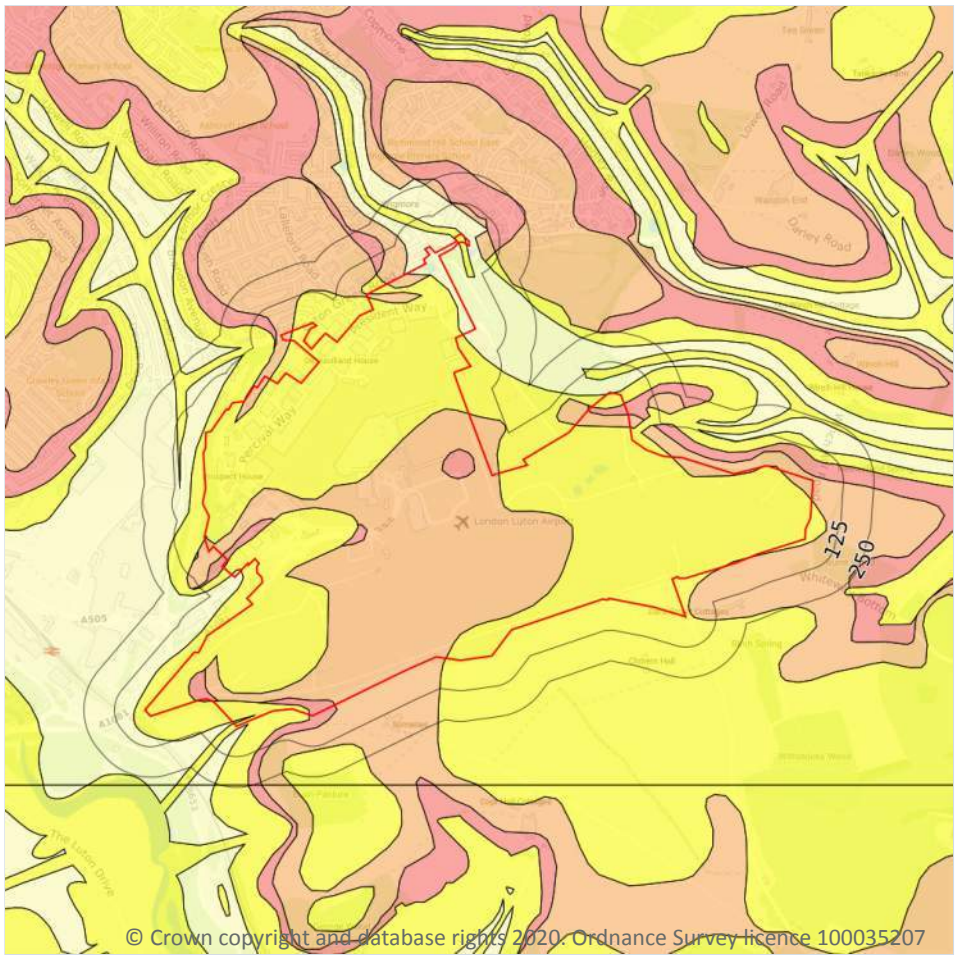
Features are displayed on the Natural ground subsidence - Landslides map on **page 148**

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

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.**
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**
11m SE	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
33m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
38m W	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	9

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.

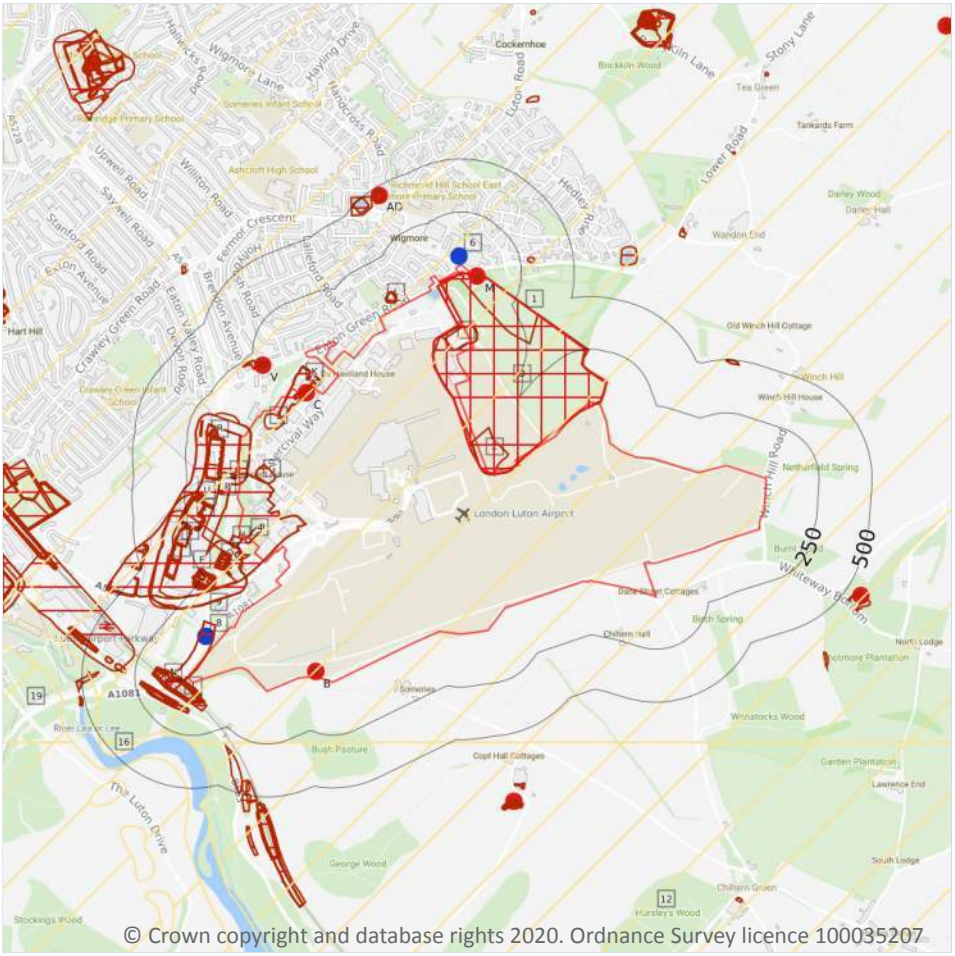
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 150**

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.**

Location	Hazard rating	Details
On site	**Very low**	**Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.**
On site	**Low**	**Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.**
On site	**Moderate**	**Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.**
11m SE	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.
19m N	Moderate	Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.
19m W	Moderate	Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.
29m E	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.
42m W	Moderate	Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

Natural cavities (Area)

Natural cavities (Point)

BritPits

Surface ground workings

Underground workings

Historical Mineral Planning Areas

Mining Cavities

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m	3

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 152**

ID	Location	Details	Source
6	40m N	Type: Solution Pipe x 15 Superficial Geology: Clay-with-Flints, Made Ground Bedrock Geology: Chalk Group	Simple Bibliography: - Full Bibliography: EDMONDS, C.N., The engineering geomorphology of karst development and the prediction of subsidence risk upon the chalk outcrop in England. Unpublished PhD thesis, University of London., , 1987; Confidentiality: Data source can be revealed, data can be used freely
8	59m NW	Type: Solution Pipe x 3 Superficial Geology: Clay-with-Flints Bedrock Geology: Chalk Group	Simple Bibliography: C.N Edmonds (Personal Correspondence) Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
9	124m NW	Type: Solution Pipe x 3 Superficial Geology: Clay-with-Flints Bedrock Geology: Chalk Group	Simple Bibliography: - Full Bibliography: EDMONDS, C.N., The engineering geomorphology of karst development and the prediction of subsidence risk upon the chalk outcrop in England. Unpublished PhD thesis, University of London., , 1987; Confidentiality: Data source can be revealed, data can be used freely

This data is sourced from Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m **6**

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, ground workings and natural cavities map on **page 152**

ID	Location	Details	Description
B	**On site**	**Name: Someries Chalk Pit** **Address: LUTON, Bedfordshire** **Commodity: Chalk** **Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site**	**Type: Ceased** **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**

ID	Location	Details	Description
C	**On site**	**Name: Eaton Green Brick & Tile Works Address: LUTON, Bedfordshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site**	**Type: Ceased 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**
M	42m E	Name: Wigmore Hall Gravel Pit Address: LUTON, Bedfordshire Commodity: Sand & Gravel Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
V	174m NW	Name: Eaton Green Chalk Pit Address: LUTON, Bedfordshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
V	174m NW	Name: Eaton Green Chalk Pit Address: LUTON, Bedfordshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
AD	462m NW	Name: Wigmore Lane Chalk Pit Address: Slaughter's Wood, LUTON, Bedfordshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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.

18.3 Surface ground workings

Records within 250m **205**

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, ground workings and natural cavities map on **page 152**

ID	Location	Land Use	Year of mapping	Mapping scale
2	**On site**	**Refuse Heap**	**1951**	**1:10560**
3	**On site**	**Unspecified Ground Workings**	**1973**	**1:10000**

ID	Location	Land Use	Year of mapping	Mapping scale
4	On site	Ponds	1973	1:10000
A	On site	Cuttings	1991	1:10000
A	On site	Cuttings	1985	1:10000
B	On site	Unspecified Pit	1900	1:10560
B	On site	Unspecified Pit	1951	1:10560
B	On site	Old Chalk Pit	1879	1:10560
B	On site	Unspecified Heap	1938	1:10560
B	On site	Unspecified Pit	1922	1:10560
B	On site	Old Chalk Pit	1888	1:10560
B	On site	Unspecified Pit	1922	1:10560
B	On site	Old Chalk Pit	1888	1:10560
C	On site	Brick and Tile Works	1879	1:10560
C	On site	Clay Pit	1879	1:10560
C	On site	Brick and Tile Works	1879	1:10560
C	On site	Brick and Tile Works	1888	1:10560
C	On site	Clay Pit	1888	1:10560
C	On site	Brick and Tile Works	1888	1:10560
C	On site	Clay Pit	1888	1:10560
D	On site	Unspecified Workings	1991	1:10000
D	On site	Unspecified Workings	1985	1:10000
D	On site	Refuse Heap	1973	1:10000
E	On site	Sewage Farm	1922	1:10560
E	On site	Sewage Farm	1947	1:10560
E	On site	Sewage Farm	1938	1:10560
E	On site	Sewage Farm	1922	1:10560
E	On site	Sewage Farm	1922	1:10560
F	On site	Unspecified Pit	1991	1:10000
F	On site	Unspecified Pit	1985	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
G	**On site**	**Unspecified Ground Workings**	**1985**	**1:10000**
G	**On site**	**Unspecified Ground Workings**	**1973**	**1:10000**
H	1m W	Unspecified Heap	1991	1:10000
H	1m W	Unspecified Heap	1985	1:10000
H	1m W	Unspecified Heap	1973	1:10000
I	14m SW	Cuttings	1985	1:10000
J	17m W	Sludge Pit	1938	1:10560
I	17m SW	Cuttings	1991	1:10000
J	18m W	Sludge Pit	1938	1:10560
J	19m W	Sludge Pit	1947	1:10560
J	19m W	Sludge Pit	1922	1:10560
J	19m W	Sludge Pit	1938	1:10560
J	19m W	Sludge Pit	1922	1:10560
J	19m W	Sludge Pit	1938	1:10560
J	19m W	Sludge Pit	1922	1:10560
I	19m SW	Cuttings	1973	1:10000
I	19m SW	Cuttings	1938	1:10560
I	27m SW	Cuttings	1938	1:10560
I	27m SW	Cuttings	1922	1:10560
I	27m SW	Cuttings	1938	1:10560
I	27m SW	Cuttings	1922	1:10560
I	27m SW	Cuttings	1947	1:10560
I	27m SW	Cuttings	1922	1:10560
5	28m W	Ponds	1973	1:10000
I	29m SW	Cuttings	1900	1:10560
K	29m N	Brick Kiln	1879	1:10560
K	29m N	Brick Kiln	1879	1:10560
L	30m NW	Unspecified Pit	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
I	30m SW	Cuttings	1888	1:10560
I	30m SW	Cuttings	1888	1:10560
I	30m SW	Cuttings	1938	1:10560
L	32m NW	Unspecified Pit	1951	1:10560
K	32m N	Brick Kiln	1888	1:10560
K	32m N	Brick Kiln	1888	1:10560
L	32m NW	Unspecified Pit	1947	1:10560
L	32m NW	Unspecified Pit	1922	1:10560
L	33m NW	Unspecified Pit	1938	1:10560
L	33m NW	Unspecified Pit	1938	1:10560
L	33m NW	Unspecified Pit	1922	1:10560
L	33m NW	Unspecified Pit	1938	1:10560
L	33m NW	Unspecified Pit	1922	1:10560
I	33m SW	Cuttings	1951	1:10560
M	37m SE	Unspecified Pit	1951	1:10560
M	37m E	Old Gravel Pit	1888	1:10560
M	37m SE	Unspecified Pit	1925	1:10560
M	37m SE	Unspecified Pit	1947	1:10560
M	37m SE	Unspecified Pit	1925	1:10560
M	37m SE	Old Gravel Pit	1899	1:10560
M	37m SE	Old Gravel Pit	1879	1:10560
I	38m SW	Cuttings	1879	1:10560
M	39m SE	Old Gravel Pit	1899	1:10560
7	47m SW	Sewage Farm	1900	1:10560
N	53m W	Cuttings	1985	1:10000
N	69m W	Cuttings	1991	1:10000
O	70m W	Unspecified Ground Workings	1938	1:10560
O	73m W	Unspecified Ground Workings	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
O	73m W	Unspecified Ground Workings	1922	1:10560
O	73m W	Unspecified Ground Workings	1938	1:10560
O	73m W	Unspecified Ground Workings	1922	1:10560
O	73m W	Filter Beds	1938	1:10560
O	73m W	Filter Beds	1947	1:10560
O	73m W	Filter Beds	1922	1:10560
P	73m W	Sedimentation Tanks	1938	1:10560
P	73m W	Sedimentation Tanks	1922	1:10560
P	73m W	Sedimentation Tanks	1938	1:10560
P	73m W	Sedimentation Tanks	1922	1:10560
P	73m W	Sedimentation Tanks	1938	1:10560
P	74m W	Sedimentation Tanks	1938	1:10560
P	74m W	Sedimentation Tanks	1947	1:10560
P	74m W	Sedimentation Tanks	1922	1:10560
O	76m W	Filter Beds	1938	1:10560
O	78m W	Filter Beds	1938	1:10560
O	78m W	Filter Beds	1922	1:10560
O	78m W	Filter Beds	1938	1:10560
O	78m W	Filter Beds	1922	1:10560
Q	89m SW	Unspecified Ground Workings	1938	1:10560
Q	95m SW	Sewage Tanks	1947	1:10560
Q	95m SW	Sewage Tanks	1922	1:10560
Q	95m SW	Sewage Tanks	1938	1:10560
Q	100m SW	Sewage Tanks	1938	1:10560
Q	100m SW	Unspecified Heap	1973	1:10000
Q	101m SW	Ponds	1900	1:10560
R	105m W	Sedimentation Tanks	1938	1:10560
R	105m W	Sedimentation Tanks	1922	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
R	105m W	Sedimentation Tanks	1938	1:10560
R	105m W	Sedimentation Tanks	1922	1:10560
Q	105m SW	Sewage Tanks	1938	1:10560
Q	105m SW	Sewage Tanks	1922	1:10560
Q	105m SW	Sewage Tanks	1938	1:10560
Q	105m SW	Sewage Tanks	1922	1:10560
R	108m W	Sedimentation Tanks	1938	1:10560
N	110m W	Cuttings	1900	1:10560
R	111m W	Sedimentation Tanks	1922	1:10560
S	118m SW	Cuttings	1888	1:10560
S	118m SW	Cuttings	1888	1:10560
S	118m SW	Cuttings	1938	1:10560
R	120m W	Sedimentation Tanks	1922	1:10560
Q	121m SW	Sewage Tanks	1938	1:10560
Q	121m SW	Sewage Tanks	1922	1:10560
Q	121m SW	Sewage Tanks	1938	1:10560
Q	121m SW	Sewage Tanks	1922	1:10560
S	121m S	Cuttings	1951	1:10560
S	121m SW	Cuttings	1947	1:10560
S	121m SW	Cuttings	1922	1:10560
S	123m SW	Cuttings	1922	1:10560
S	123m SW	Cuttings	1922	1:10560
S	123m SW	Cuttings	1938	1:10560
T	124m W	Unspecified Ground Workings	1938	1:10560
10	125m SW	Cuttings	1879	1:10560
T	127m W	Unspecified Ground Workings	1938	1:10560
T	127m W	Unspecified Ground Workings	1922	1:10560
T	127m W	Unspecified Ground Workings	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
T	127m W	Unspecified Ground Workings	1922	1:10560
S	129m SW	Cuttings	1879	1:10560
R	134m W	Sedimentation Tanks	1922	1:10560
S	135m SW	Cuttings	1973	1:10000
S	140m SW	Cuttings	1900	1:10560
Q	141m SW	Sewage Tanks	1938	1:10560
Q	141m SW	Sewage Tanks	1922	1:10560
Q	141m SW	Sewage Tanks	1938	1:10560
Q	141m SW	Sewage Tanks	1922	1:10560
Q	152m SW	Sewage Tanks	1947	1:10560
Q	152m SW	Sewage Tanks	1922	1:10560
Q	152m SW	Sewage Tanks	1900	1:10560
Q	153m SW	Sewage Tanks	1938	1:10560
T	153m W	Filter Beds	1938	1:10560
T	154m W	Filter Beds	1947	1:10560
T	154m W	Filter Beds	1922	1:10560
U	158m W	Sedimentation Tanks	1938	1:10560
U	158m W	Sedimentation Tanks	1922	1:10560
U	158m W	Sedimentation Tanks	1938	1:10560
U	158m W	Sedimentation Tanks	1922	1:10560
V	159m NW	Old Chalk Pit	1888	1:10560
V	159m NW	Old Chalk Pit	1888	1:10560
V	160m NW	Old Chalk Pit	1879	1:10560
V	161m NW	Unspecified Ground Workings	1985	1:10000
U	162m W	Sedimentation Tanks	1938	1:10560
V	163m NW	Unspecified Ground Workings	1900	1:10560
U	163m W	Sedimentation Tanks	1947	1:10560
U	163m W	Sedimentation Tanks	1922	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
V	163m NW	Unspecified Pit	1938	1:10560
V	163m NW	Unspecified Ground Workings	1991	1:10000
V	165m NW	Unspecified Ground Workings	1947	1:10560
V	165m NW	Unspecified Ground Workings	1922	1:10560
V	166m NW	Unspecified Pit	1951	1:10560
W	181m NW	Sewage Tanks	1938	1:10560
U	183m W	Sedimentation Tanks	1938	1:10560
W	183m NW	Sewage Tanks	1947	1:10560
W	183m NW	Sewage Tanks	1922	1:10560
U	184m W	Sedimentation Tanks	1947	1:10560
U	184m W	Sedimentation Tanks	1922	1:10560
11	184m W	Sedimentation Tanks	1947	1:10560
W	192m NW	Unspecified Ground Workings	1938	1:10560
W	194m NW	Ponds	1900	1:10560
W	196m NW	Sewage Tanks	1938	1:10560
W	196m NW	Sewage Tanks	1922	1:10560
W	196m NW	Sewage Tanks	1938	1:10560
W	196m NW	Sewage Tanks	1922	1:10560
W	197m NW	Sewage Tanks	1938	1:10560
W	197m NW	Sewage Tanks	1922	1:10560
W	197m NW	Sewage Tanks	1938	1:10560
W	197m NW	Sewage Tanks	1922	1:10560
W	206m NW	Sewage Tanks	1938	1:10560
X	226m W	Pond	1938	1:10560
X	227m W	Pond	1947	1:10560
X	227m W	Pond	1922	1:10560
Y	227m W	Ponds	1938	1:10560
X	228m W	Pond	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
X	228m W	Pond	1922	1:10560
X	228m W	Pond	1938	1:10560
X	228m W	Pond	1922	1:10560
W	237m NW	Sewage Tanks	1938	1:10560
W	237m NW	Sewage Tanks	1922	1:10560
W	237m NW	Sewage Tanks	1938	1:10560
W	237m NW	Sewage Tanks	1922	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	**2**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 152**

ID	Location	Land Use	Year of mapping	Mapping scale
D	**On site**	**Unspecified Workings**	**1991**	**1:10000**
D	**On site**	**Unspecified Workings**	**1985**	**1:10000**

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**0**

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	**8**

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).

Features are displayed on the Mining, ground workings and natural cavities map on **page 152**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Chalk**	**A**	**Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered**
12	241m S	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
16	383m SW	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
17	391m S	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
19	605m W	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	915m W	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	965m W	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	974m W	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

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 Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 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.

18.10 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.

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 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 Radon

Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

19.1 Radon

Records on site	1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 166**

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

This data is sourced from the British Geological Survey and Public Health England.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	**90**

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 km^2. 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 km^2; 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**	**15 - 30 mg/kg**
On site	**15 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 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	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 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 - 25 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 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 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 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 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 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 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 - 25 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 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 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	45 - 60 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	45 - 60 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	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 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 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 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 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 - 200 mg/kg	60 - 120 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 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 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 - 200 mg/kg**	**60 - 120 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**	**45 - 60 mg/kg**
8m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
8m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
8m W	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
11m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
11m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
12m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
12m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
19m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
21m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
21m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
21m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
23m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
24m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
27m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
29m N	15 - 25 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
32m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
38m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
39m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
47m N	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 W	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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 km^2).

This data is sourced from the British Geological Survey.

20.3 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^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects

Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 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.

21.2 Underground railways (Non-London)

Records within 250m	0

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.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	3

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.

Features are displayed on the Railway infrastructure and projects map on **page 173**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1962**	**1250**
24m SW	Railway	1880	-
125m SW	Railway	1880	-

This data is sourced from Ordnance Survey/Groundsure.

21.5 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.

21.6 Historical railways

Records within 250m	1

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

Features are displayed on the Railway infrastructure and projects map on **page 173**

Location	Description
126m SW	Abandoned

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	**10**

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

Features are displayed on the Railway infrastructure and projects map on **page 173**

Location	Name	Type
55m SW	Midland Main Line	rail
58m SW	Midland Main Line	rail
60m SW	Not given	Multi Track
62m SW	Midland Main Line	rail
66m SW	Midland Main Line	rail
76m S	Not given	Multi Track
100m W	Not given	Multi Track
115m S	Not given	Multi Track
157m S	Not given	Multi Track
158m W	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	**0**

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 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.

21.10 HS2

Records within 500m	0

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.

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 https://www.groundsure.com/sources-reference.

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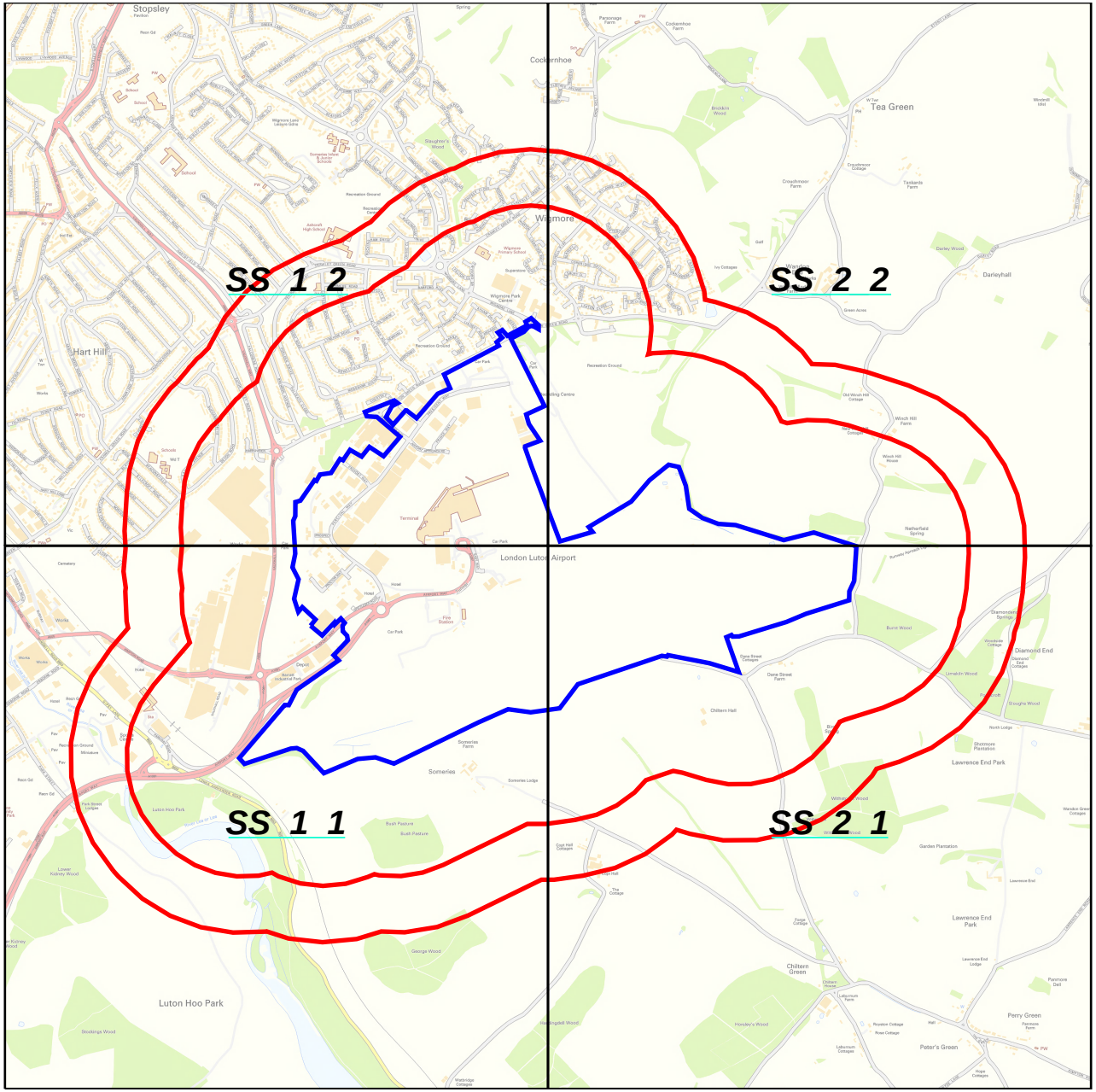

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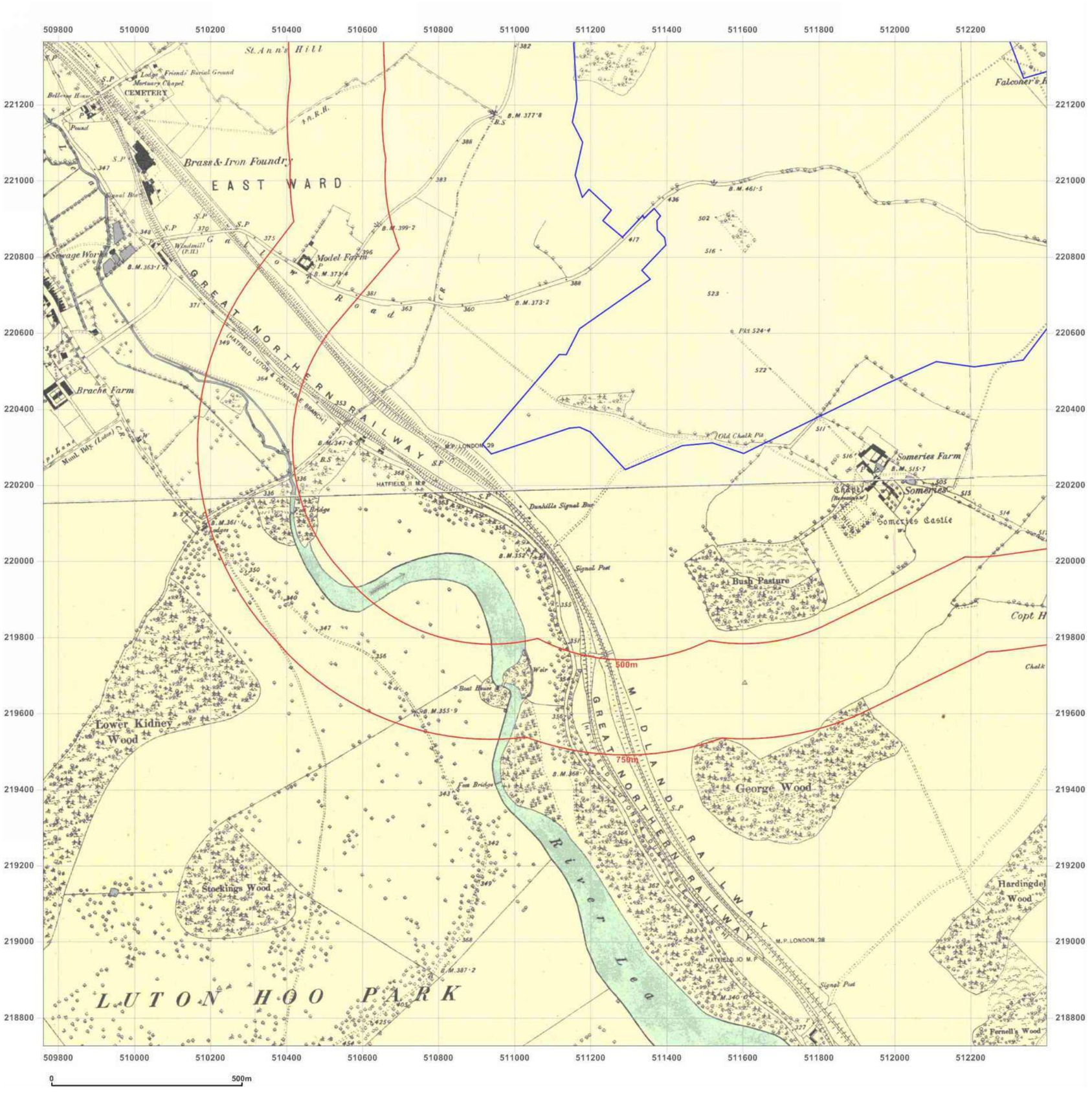
Small Scale Grid Index



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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_1
Grid Ref: 511079, 220045

Map Name: County Series

Map date: **1879**

Scale: 1:10,560

Printed at: 1:10,560

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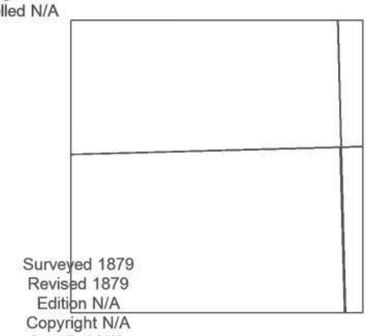

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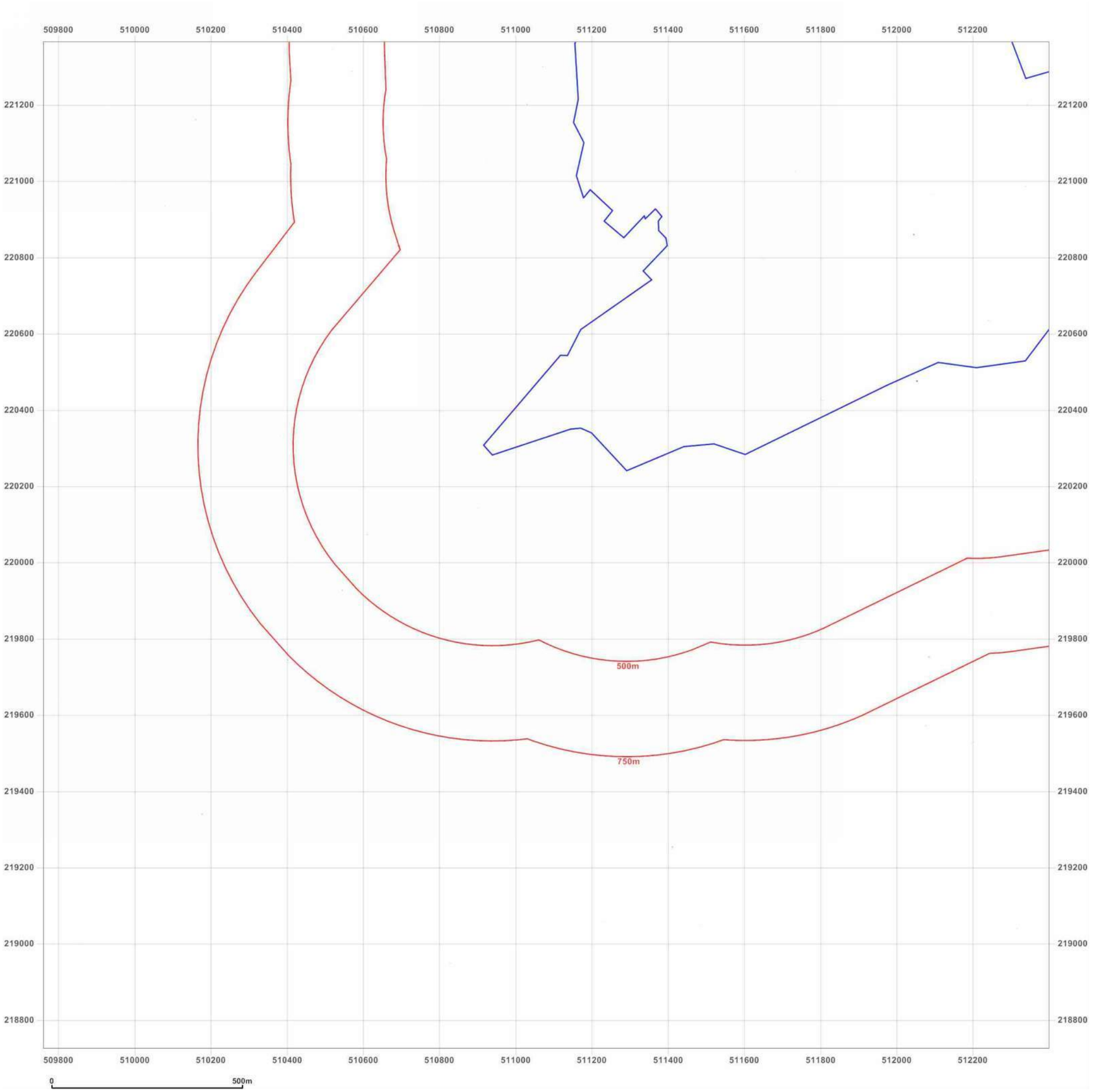

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Client Ref: Luton Aiport Expansion
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Grid Ref: 511079, 220045

Map Name: County Series

Map date: **1884**

Scale: 1:10,560

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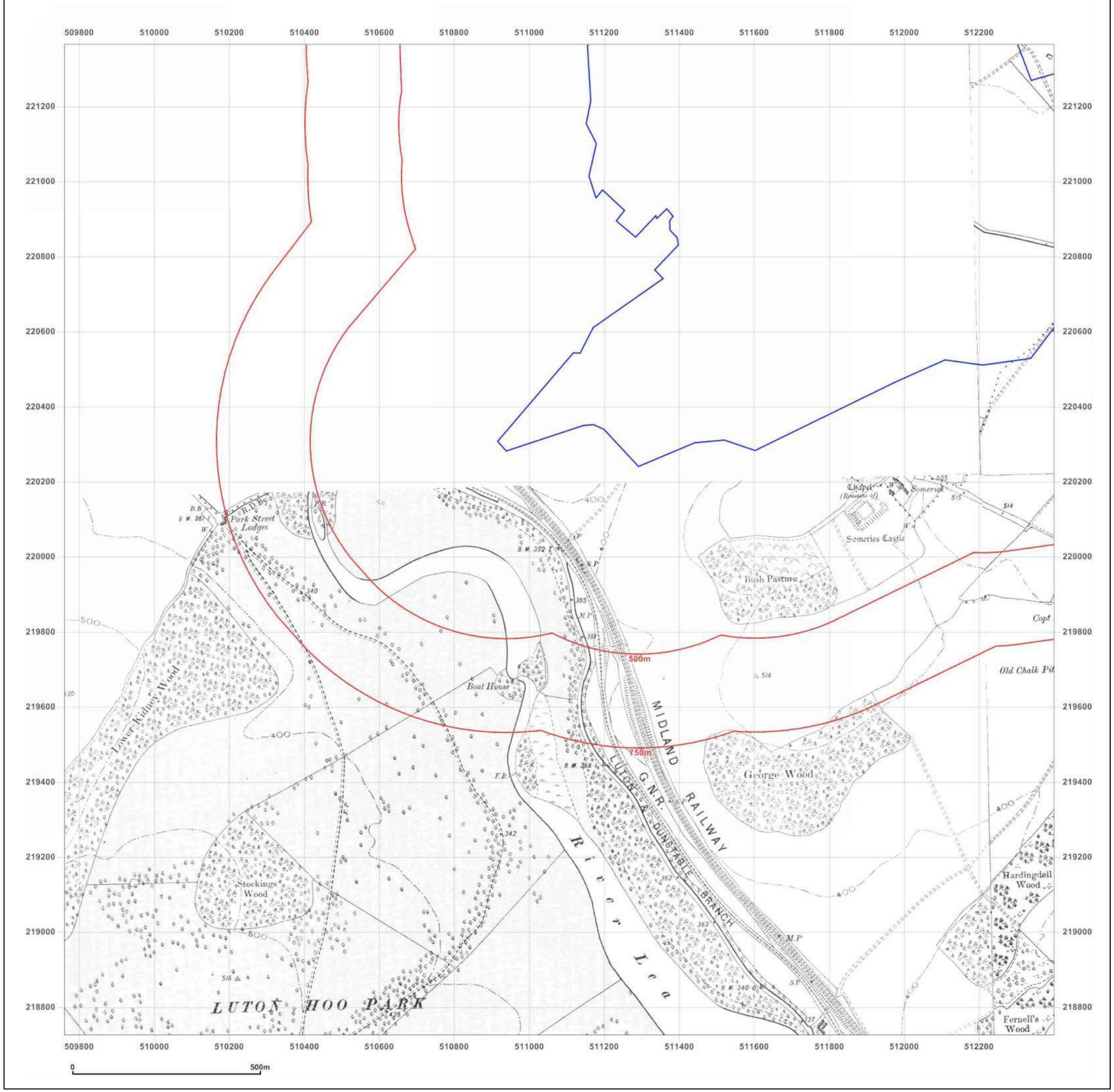

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Grid Ref: 511079, 220045

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

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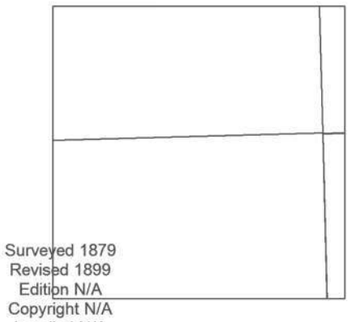

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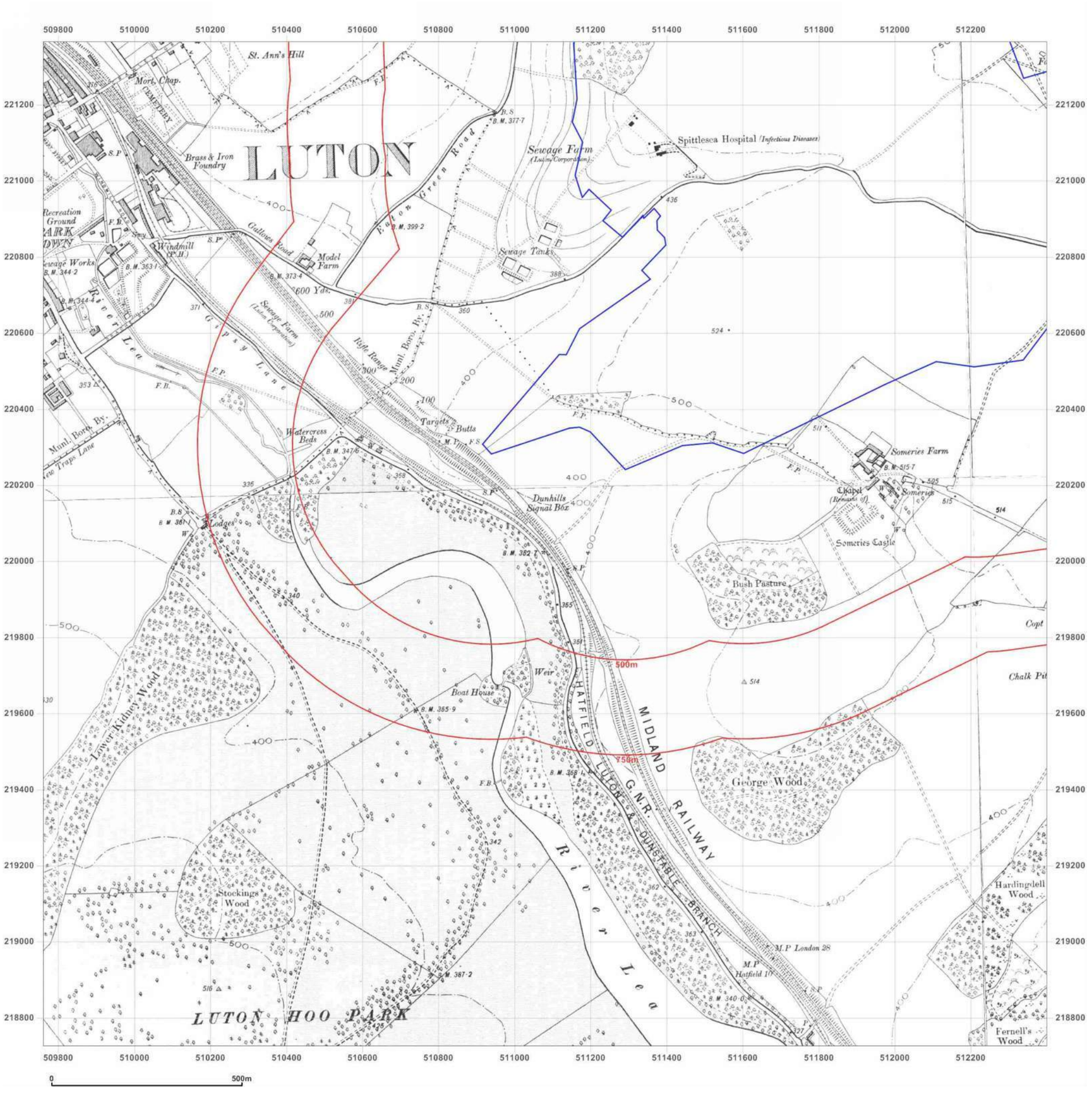

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Grid Ref: 511079, 220045

Map Name: County Series

Map date: **1899-1900**

Scale: 1:10,560

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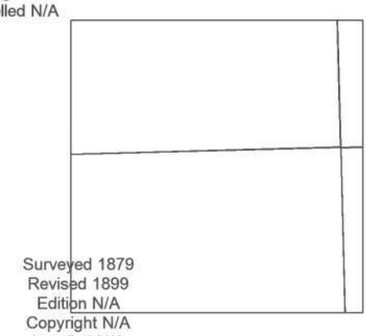

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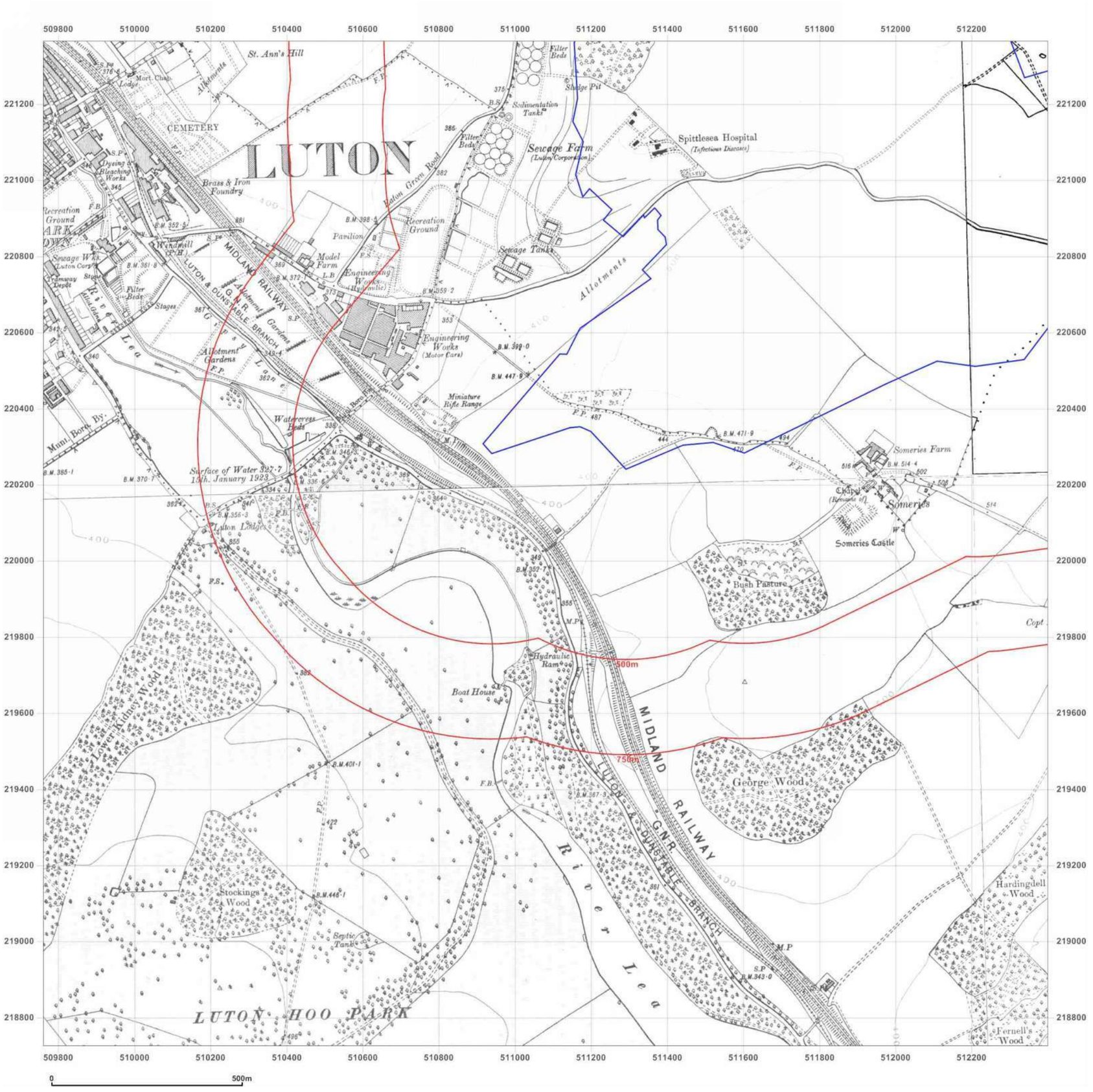

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Grid Ref: 511079, 220045

Map Name: County Series

Map date: **1922-1925**

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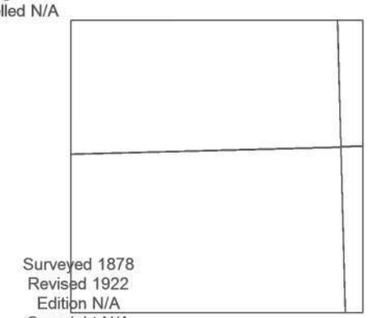

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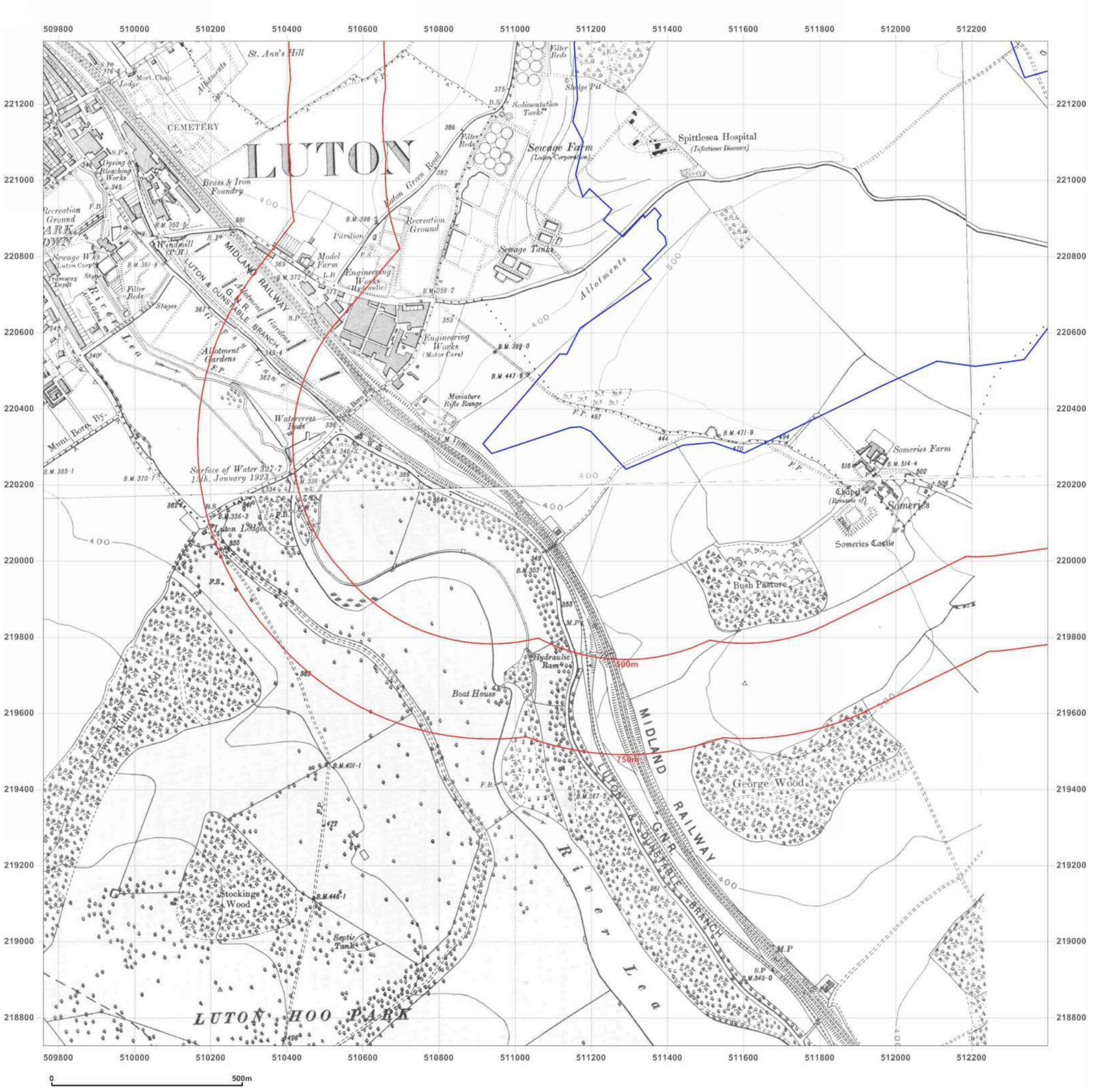

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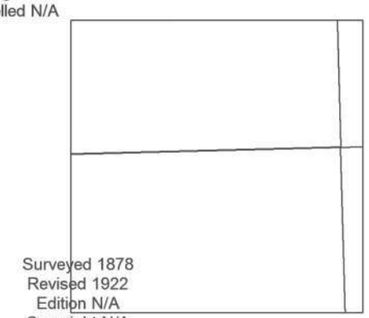

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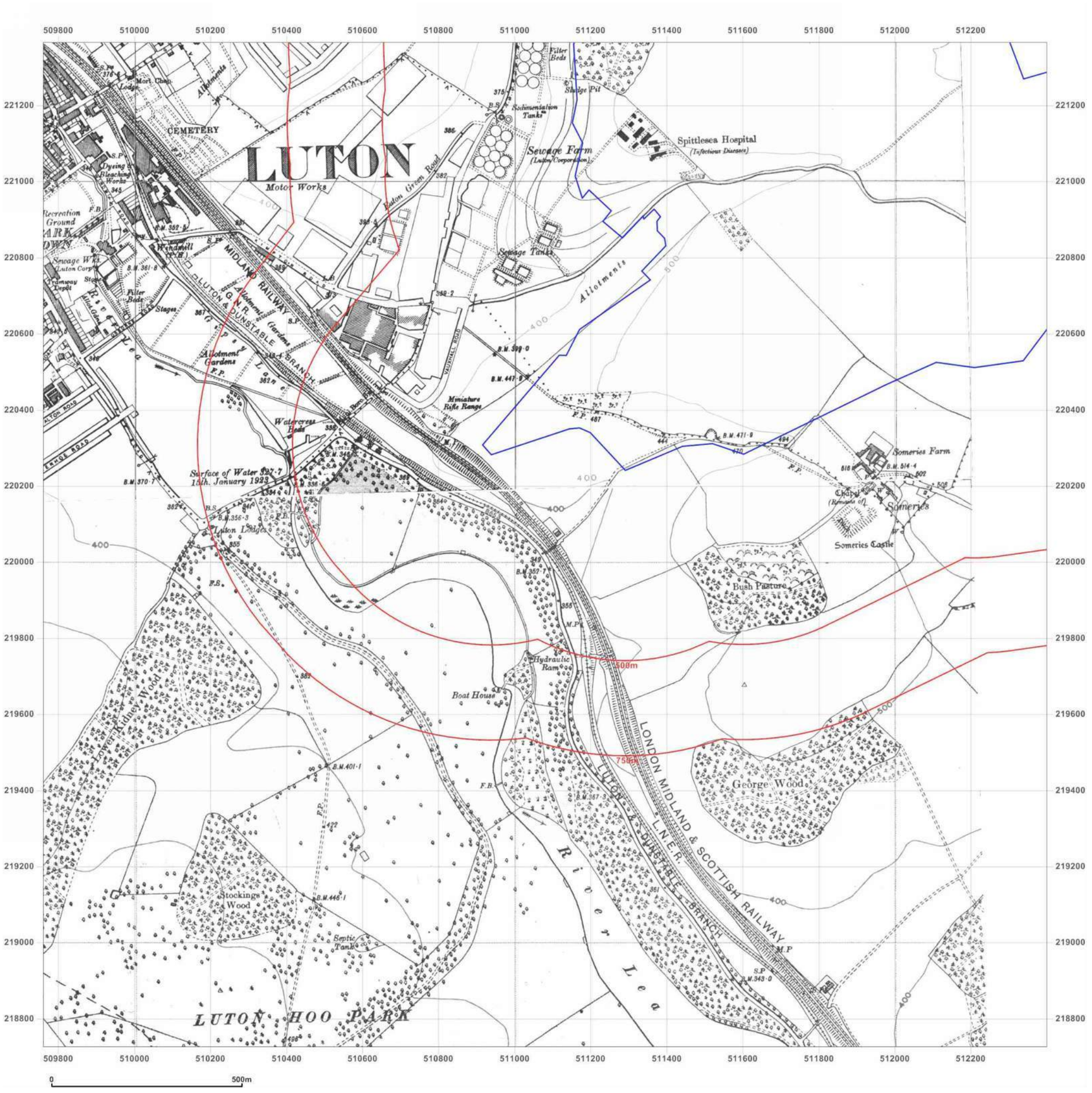

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Grid Ref: 511079, 220045

Map Name: County Series

Map date: **1938**

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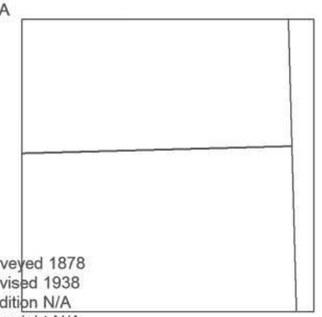

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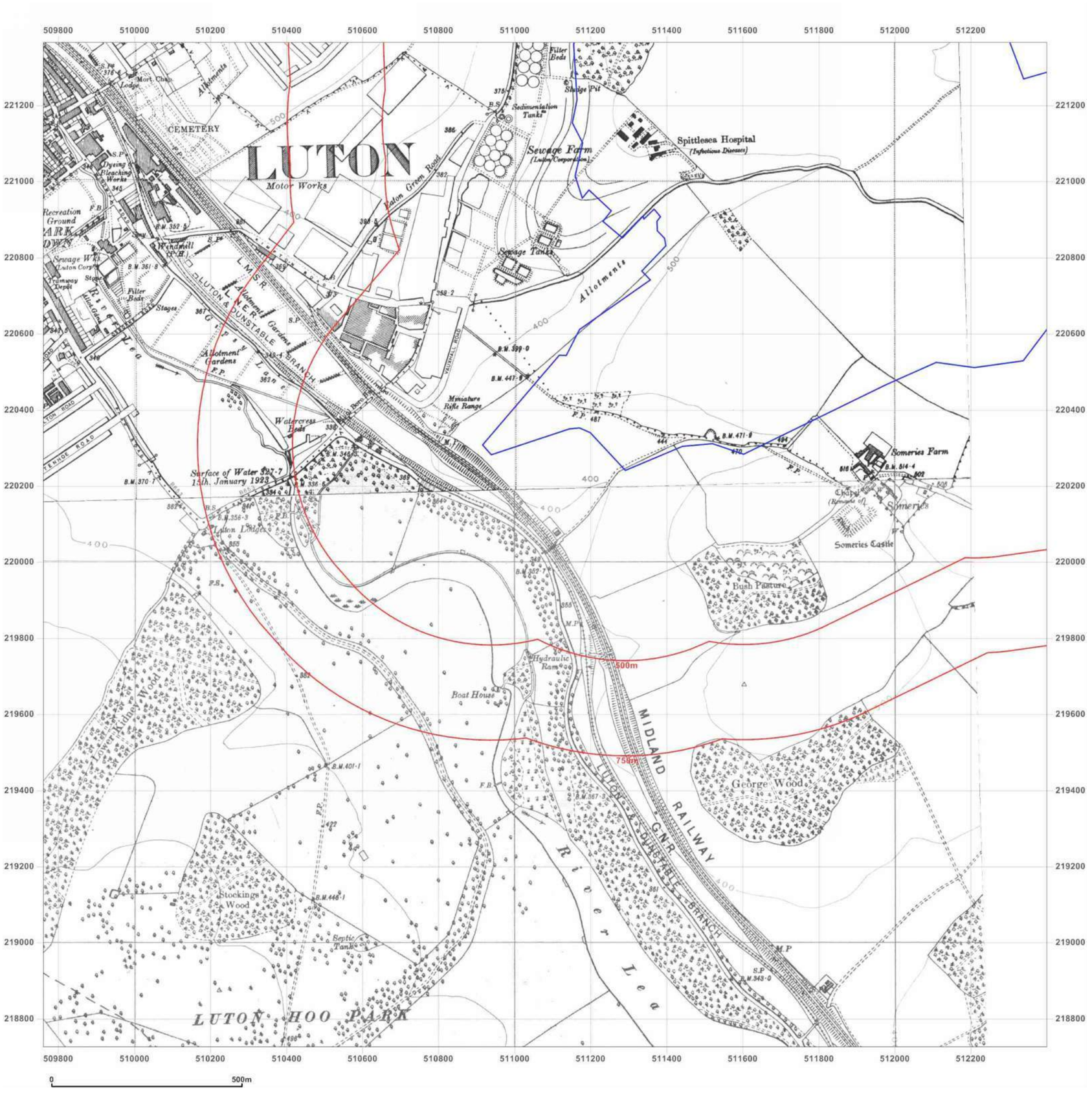

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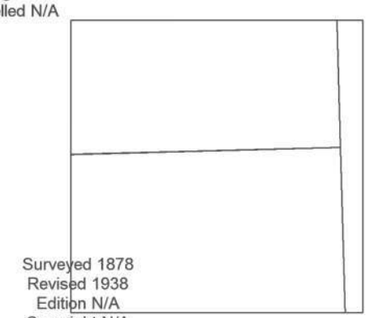

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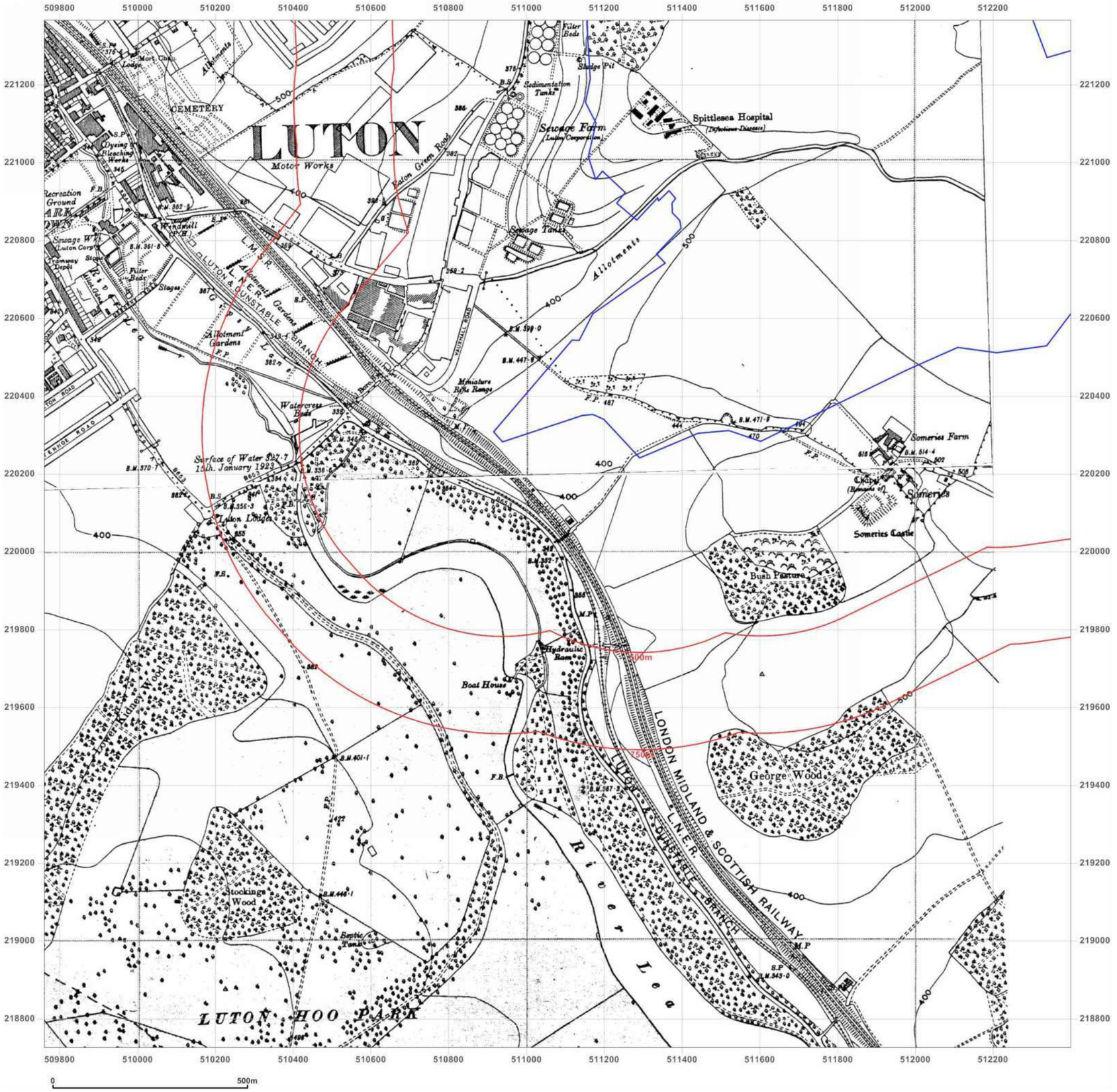

Groundsure INSIGHTS

Site Details:

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Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_1
Grid Ref: 511079, 220045

Map Name: County Series

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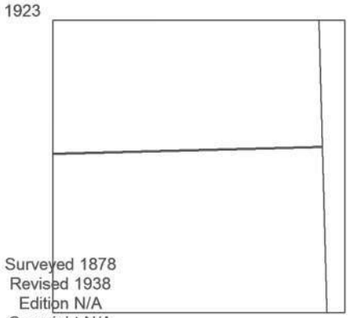

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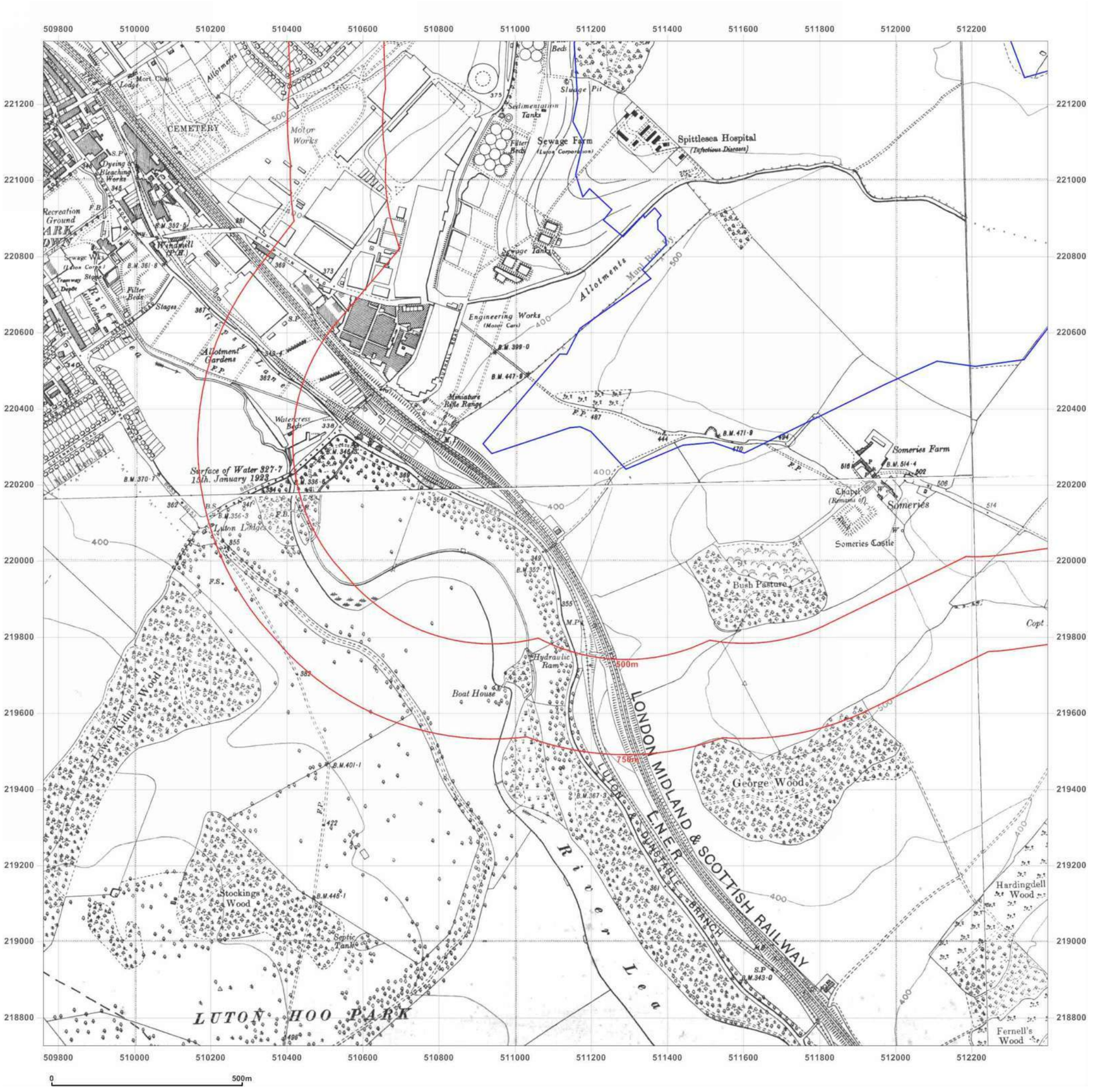

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Map Name: County Series

Map date: **1947**

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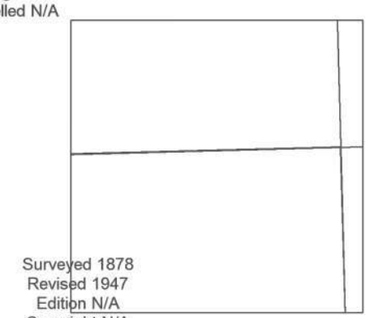

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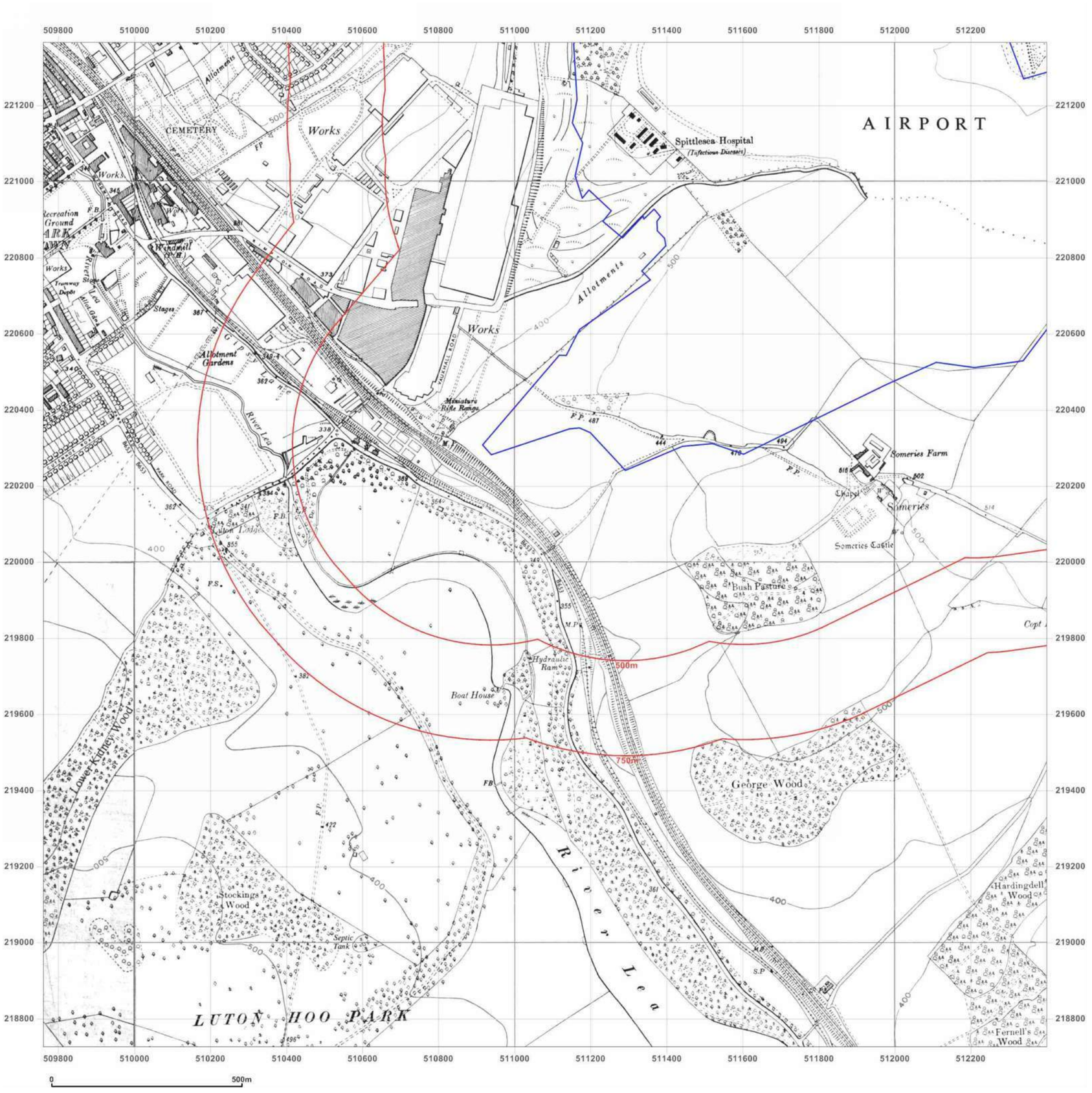

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_1
Grid Ref: 511079, 220045

Map Name: Provisional
Map date: **1960**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
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Surveyed 1951
Revised 1951
Edition 1960
Copyright 1960
Levelled N/A

Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

Surveyed N/A
Revised 1960
Edition 1960
Copyright 1960
Levelled N/A

Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
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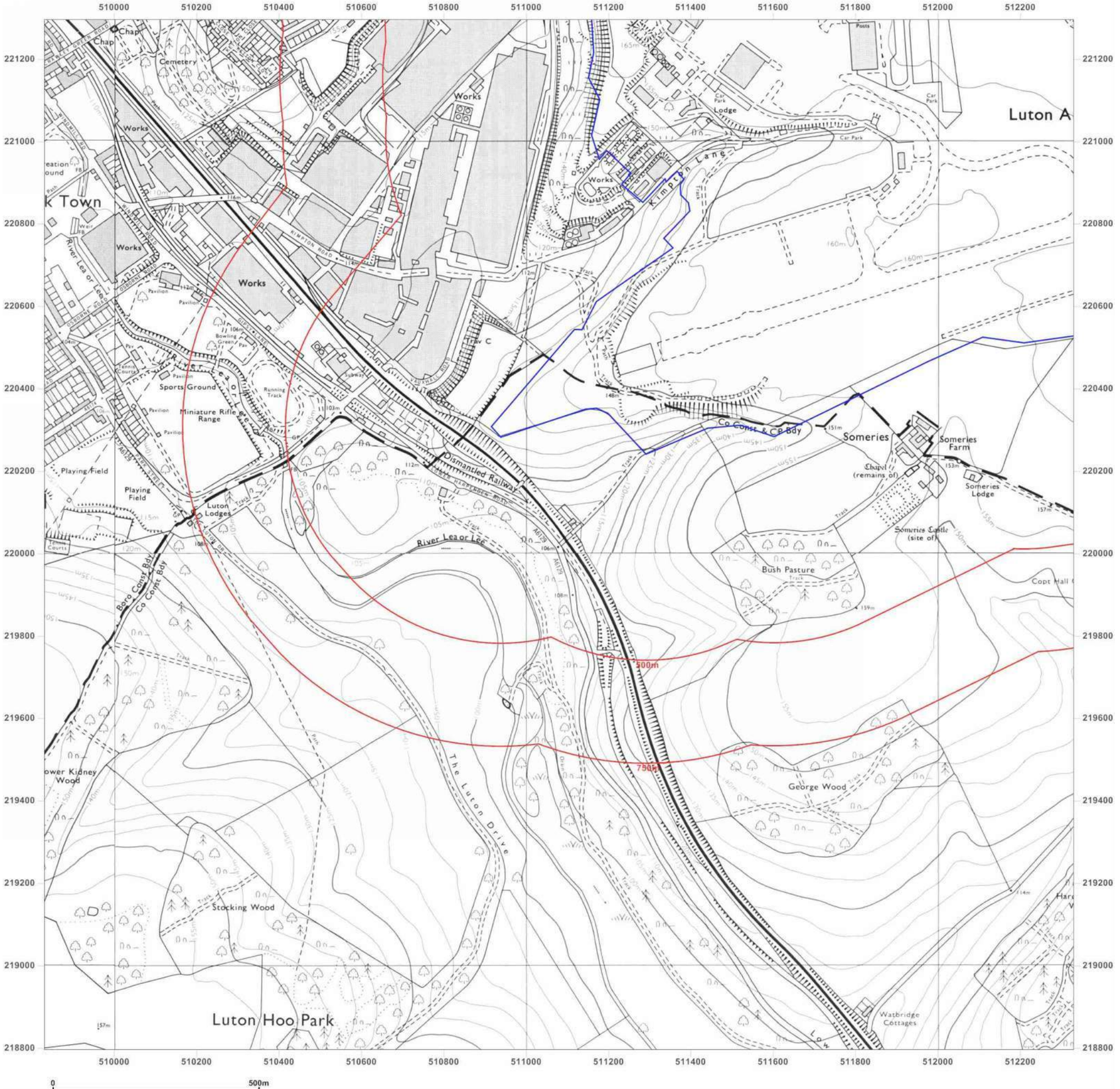

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_1
Grid Ref: 511079, 220045

Map Name: National Grid

Map date: **1974-1977**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1974
Revised 1976
Edition N/A
Copyright 1977
Levelled 1970

Surveyed 1973
Revised 1975
Edition N/A
Copyright 1975
Levelled 1973

Surveyed 1973
Revised 1974
Edition N/A
Copyright 1975
Levelled 1971

Surveyed 1972
Revised 1974
Edition N/A
Copyright 1974
Levelled 1973

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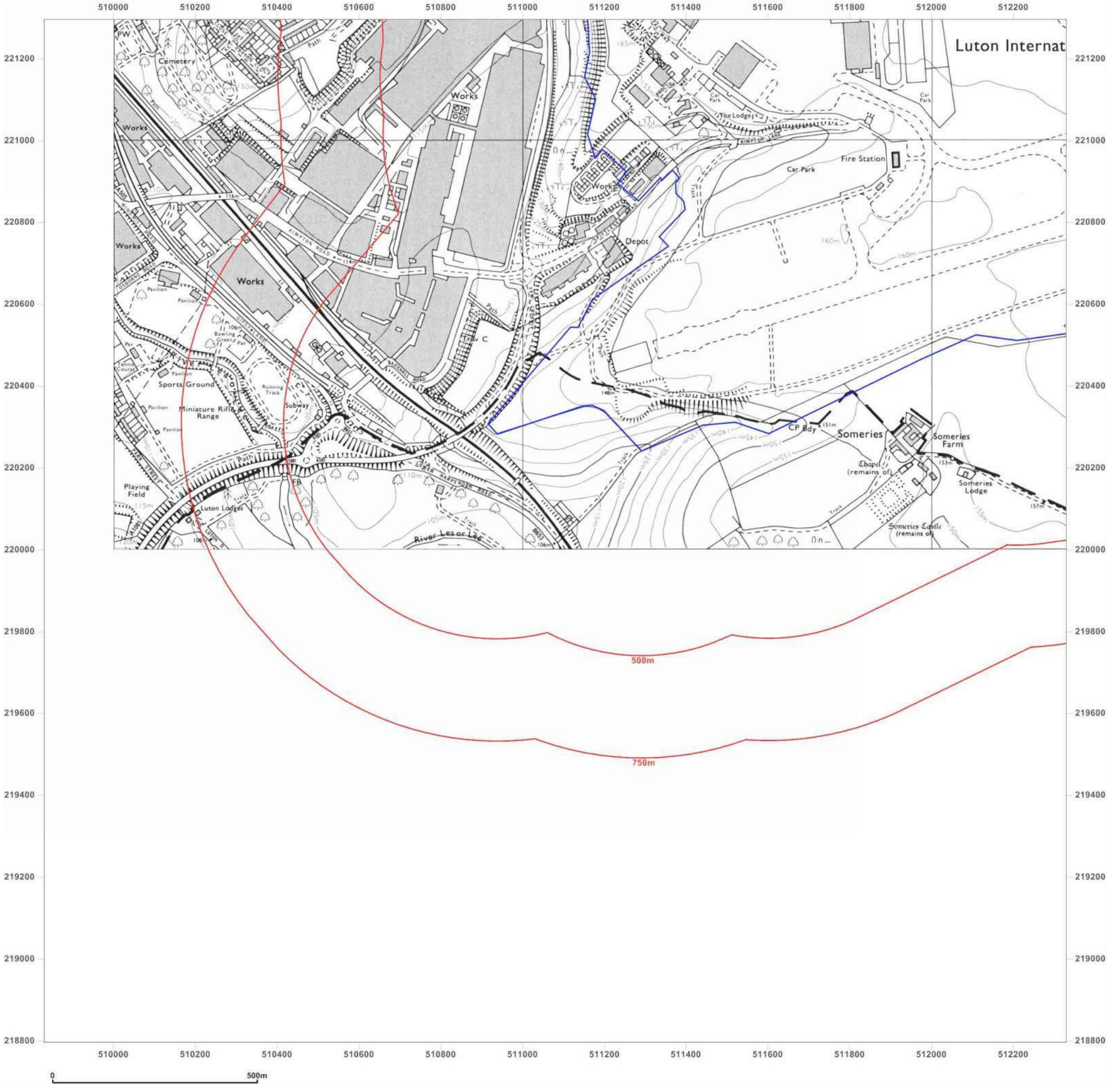

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_1
Grid Ref: 511079, 220045

Map Name: National Grid

Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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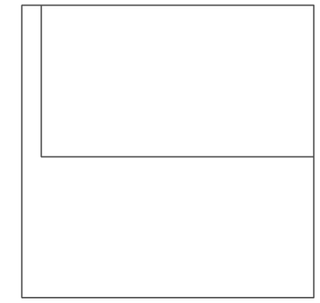
Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A



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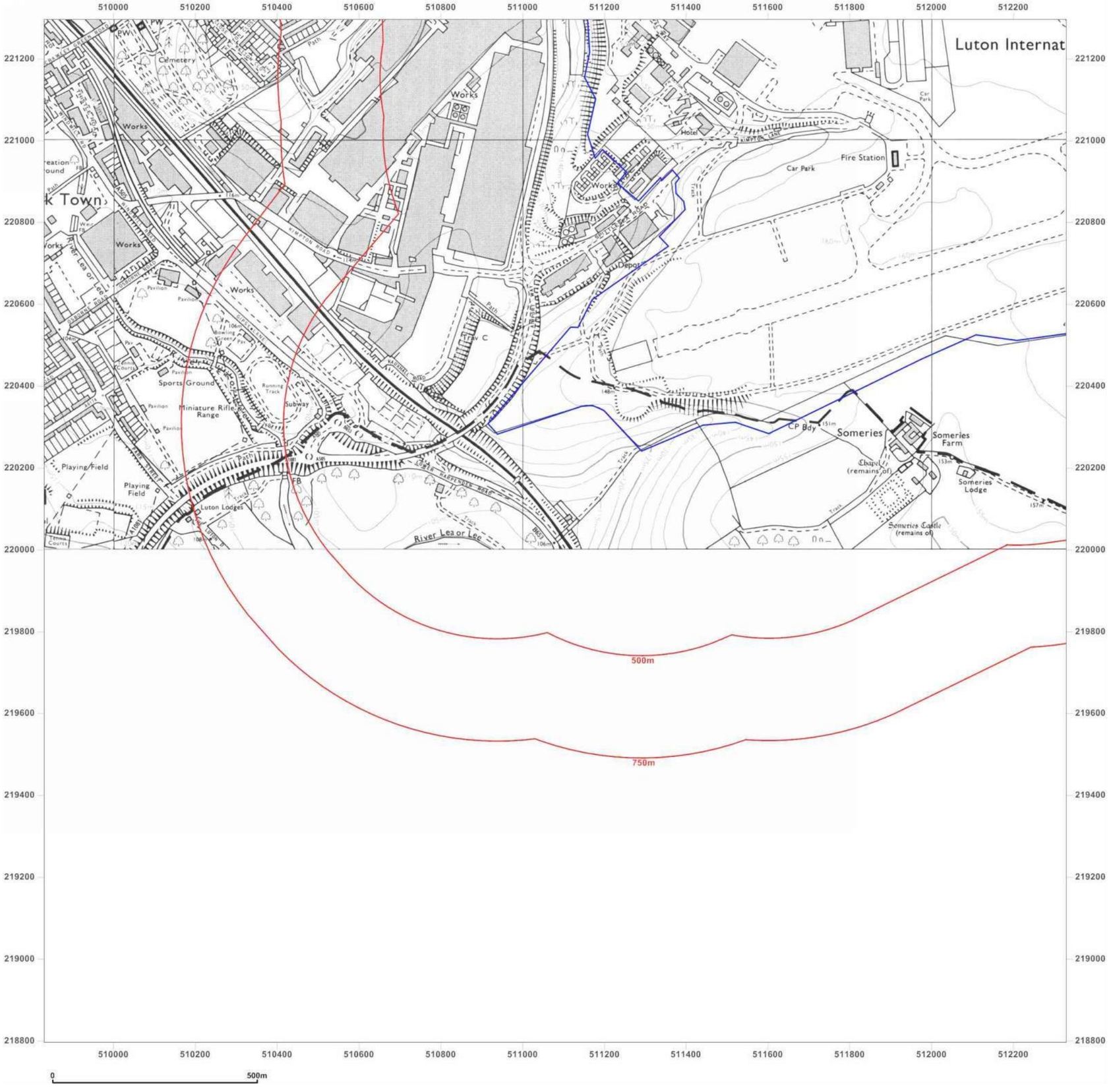

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_1
Grid Ref: 511079, 220045

Map Name: National Grid

Map date: **1991**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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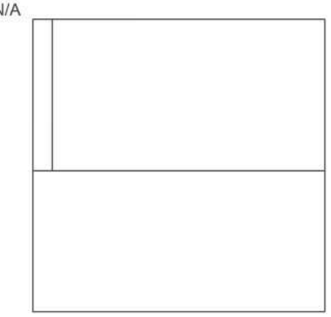
Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A



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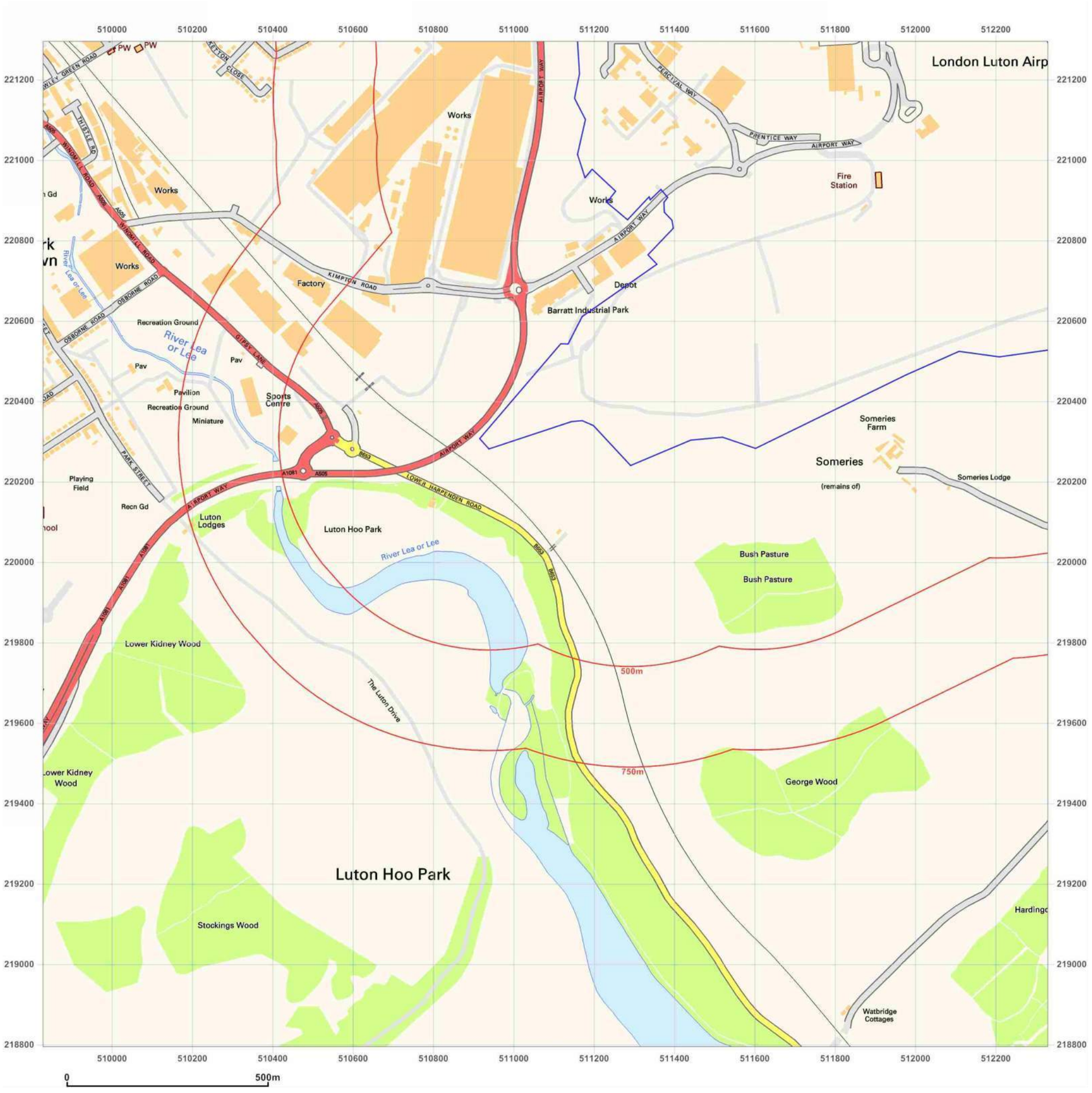

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_1
Grid Ref: 511079, 220045

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

N
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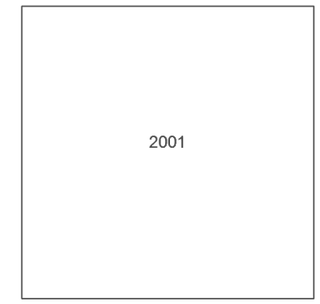

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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_1
Grid Ref: 511079, 220045

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
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2010

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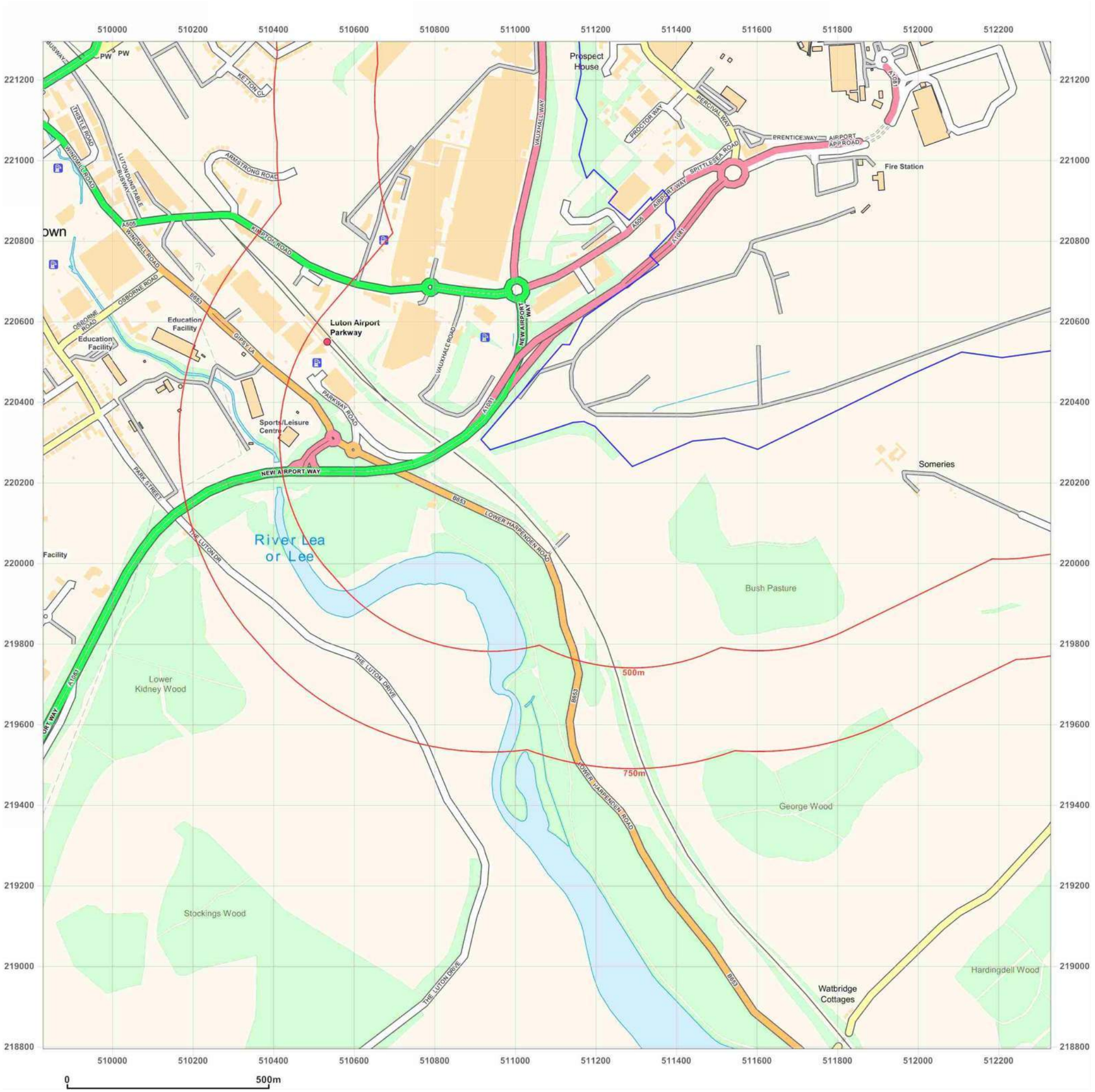

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_1
Grid Ref: 511079, 220045

Map Name: National Grid

Map date: **2020**

Scale: 1:10,000

Printed at: 1:10,000

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2020

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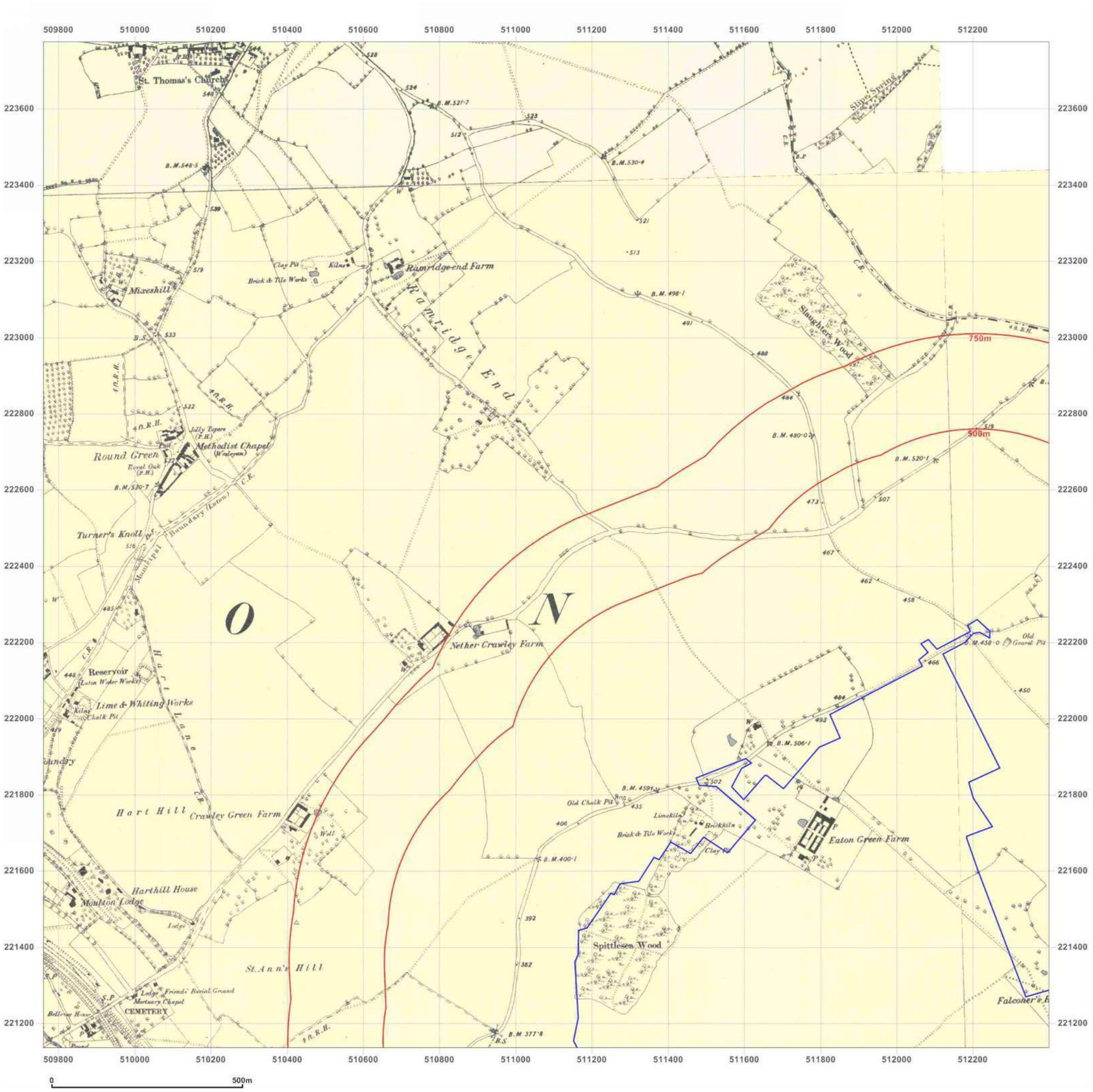

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: County Series

Map date: **1879-1880**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1879
Edition N/A
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Production date: 20 November 2020

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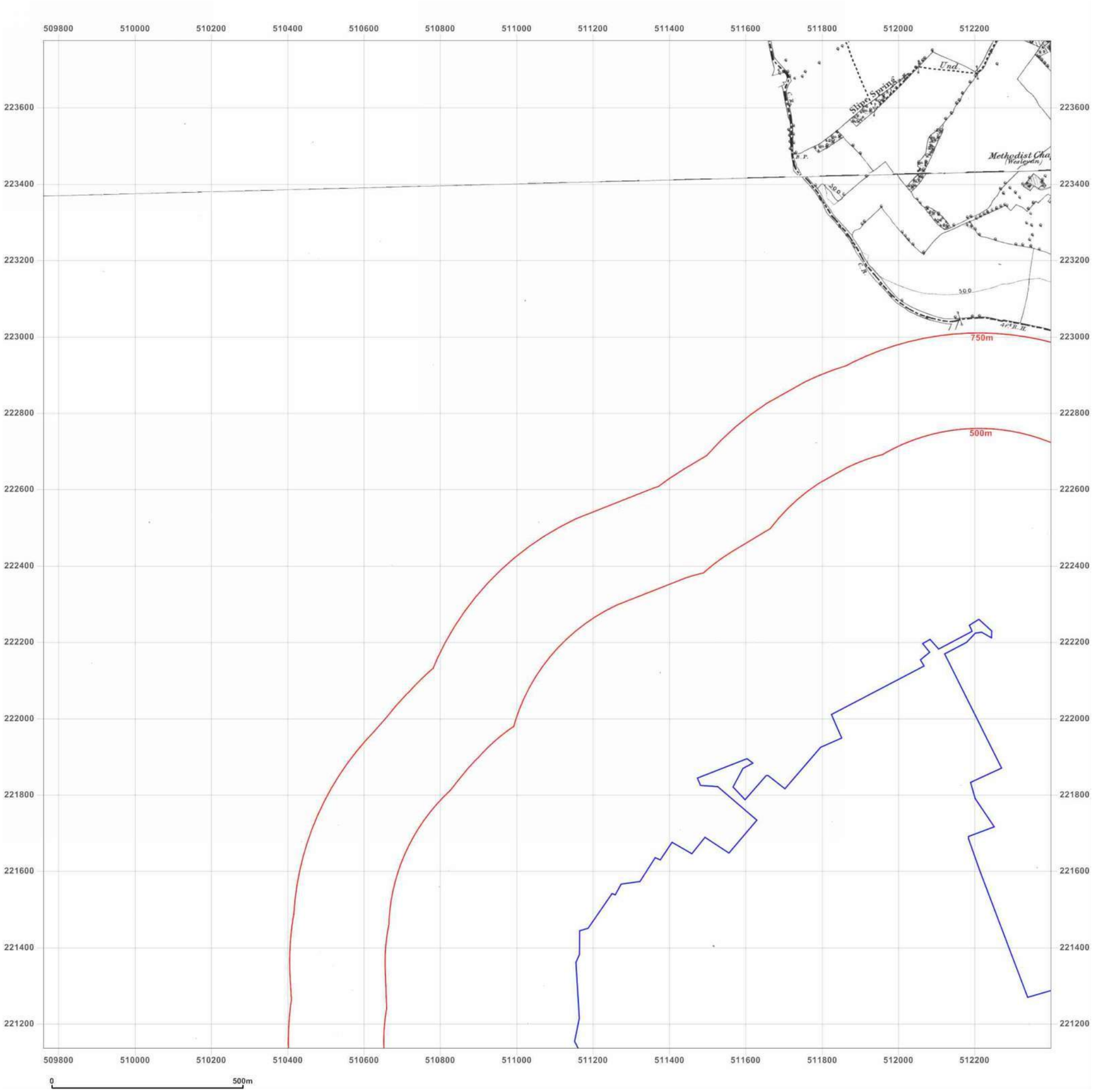


Groundsure INSIGHTS

Site Details:

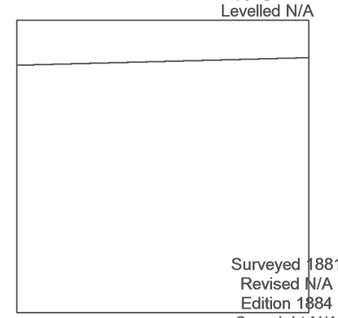
Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: County Series
Map date: **1884**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S

Surveyed 1880
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A



Surveyed 1881
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A

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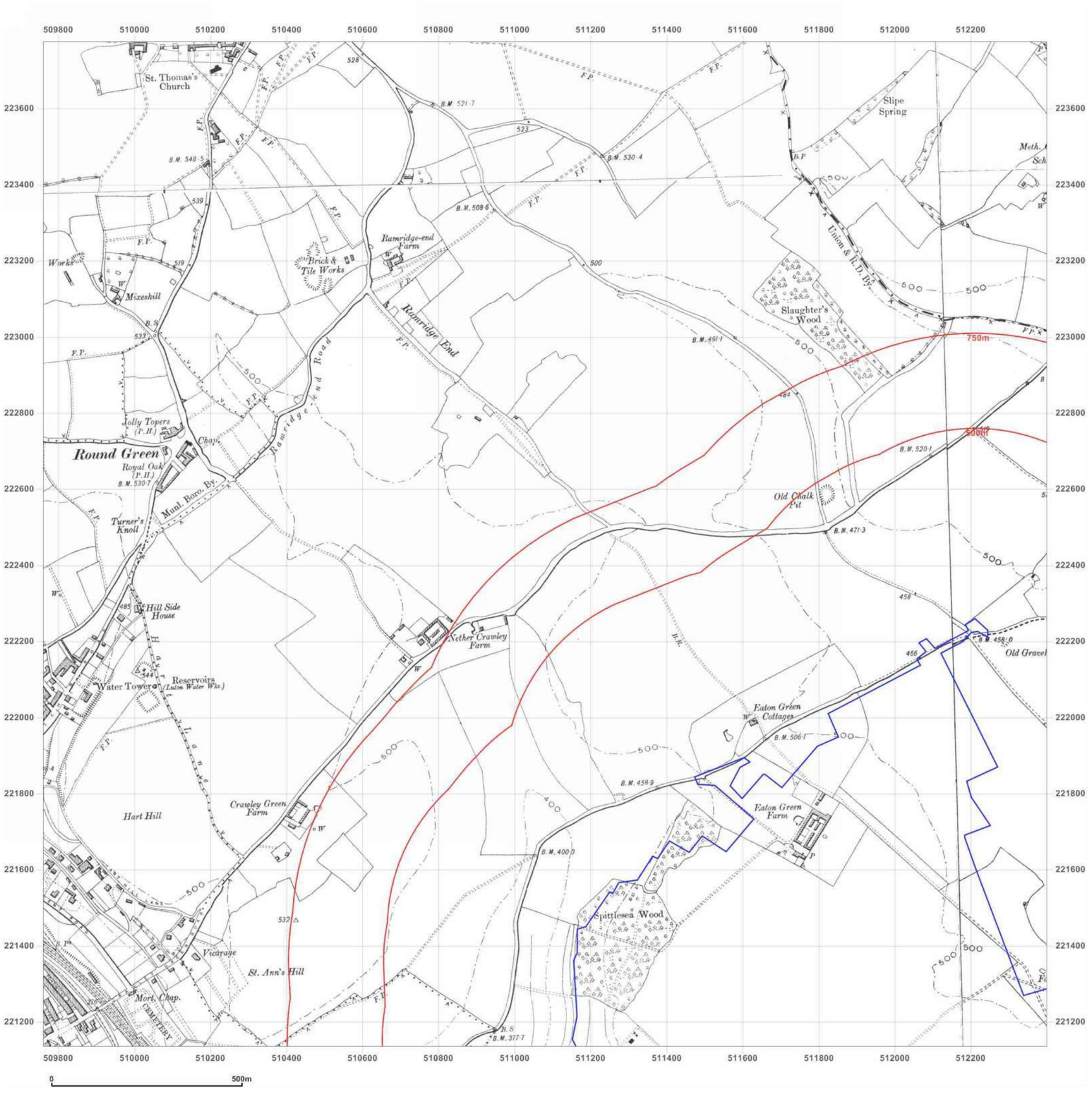

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: County Series

Map date: **1897-1900**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1880
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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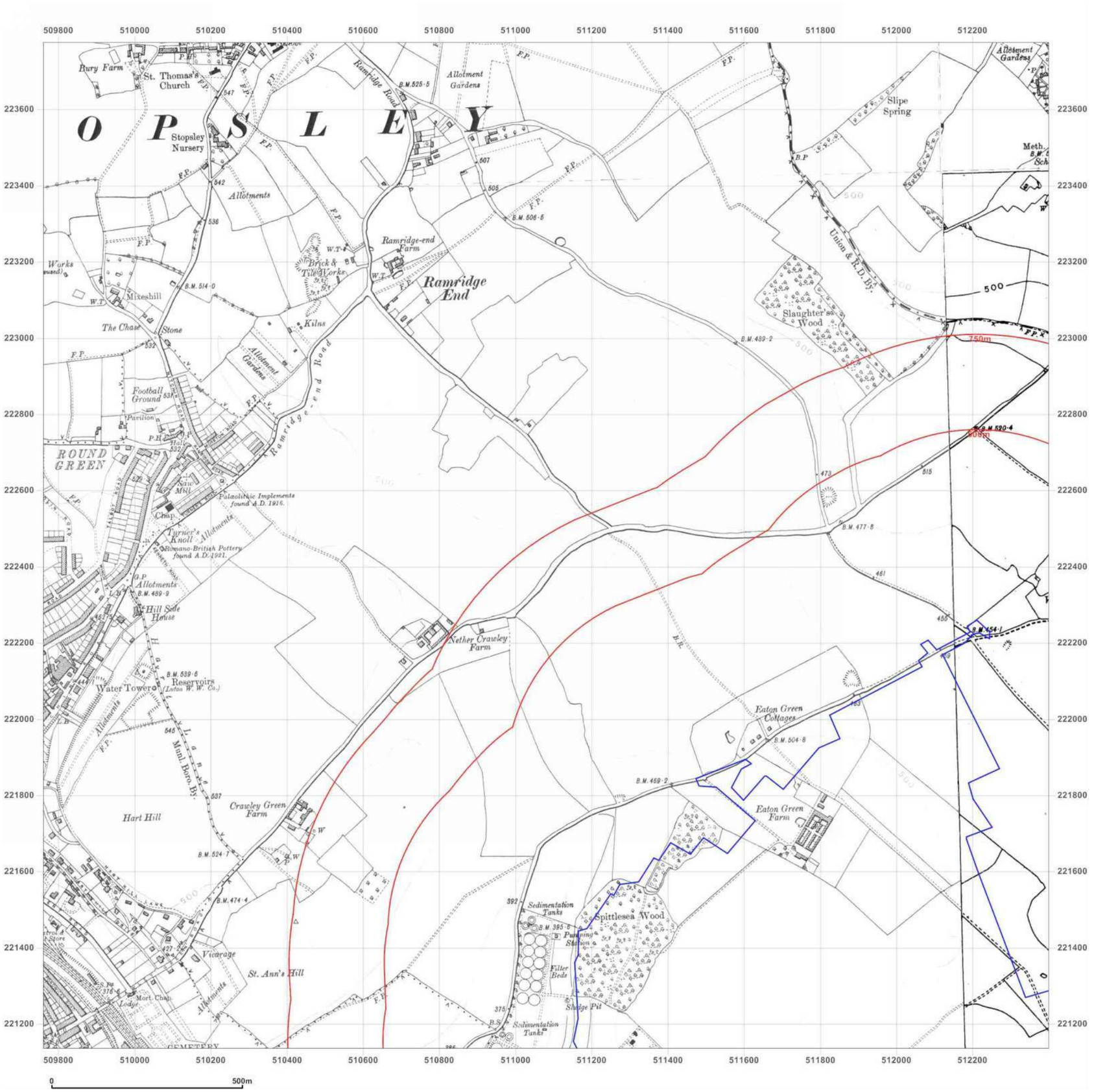

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: County Series

Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1878
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1922
Edition 1925
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition 1925
Copyright N/A
Levelled N/A

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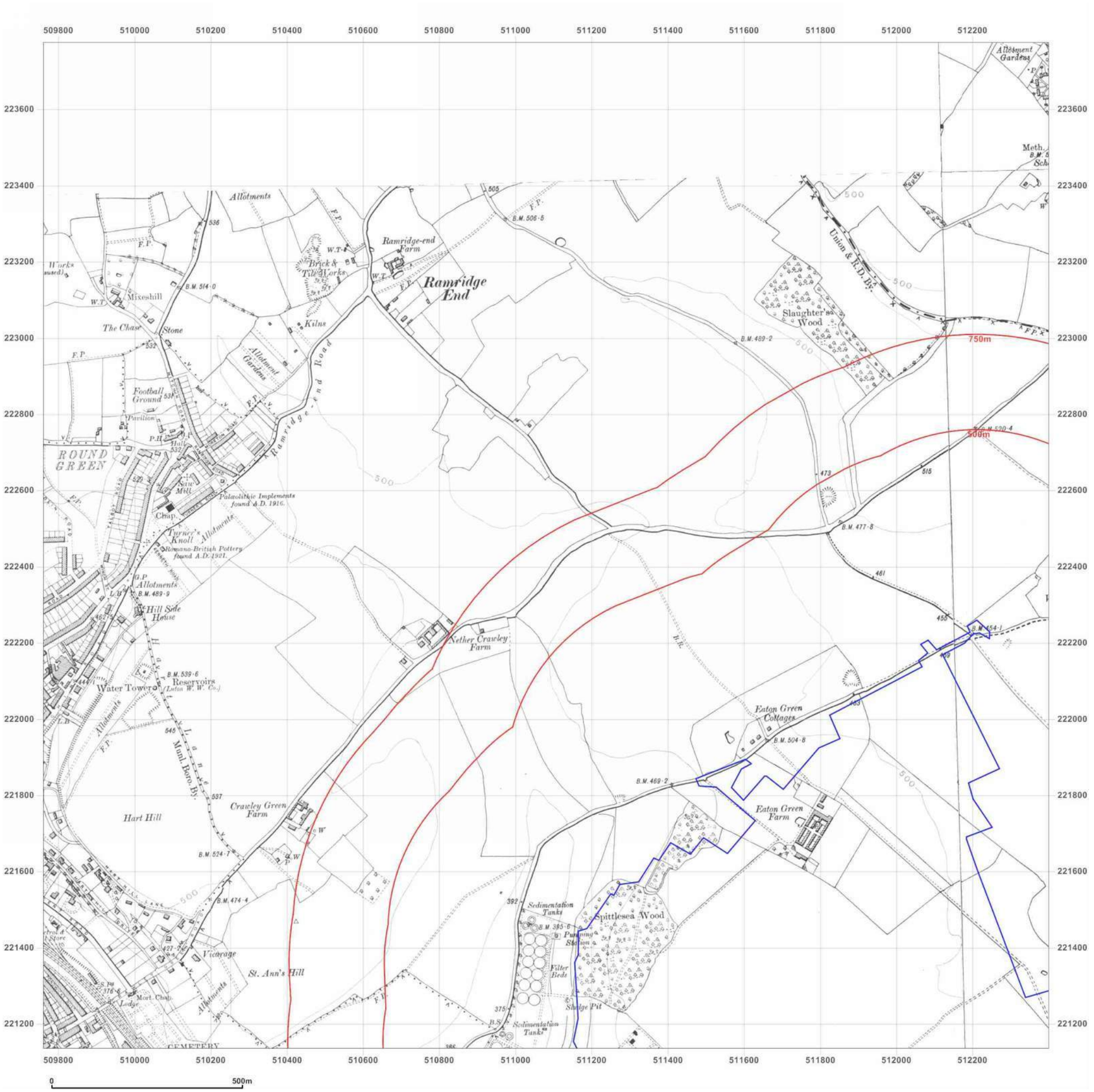

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: County Series

Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1922
Edition N/A
Copyright 1925
Levelled N/A

Surveyed 1879
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1922
Edition 1925
Copyright N/A
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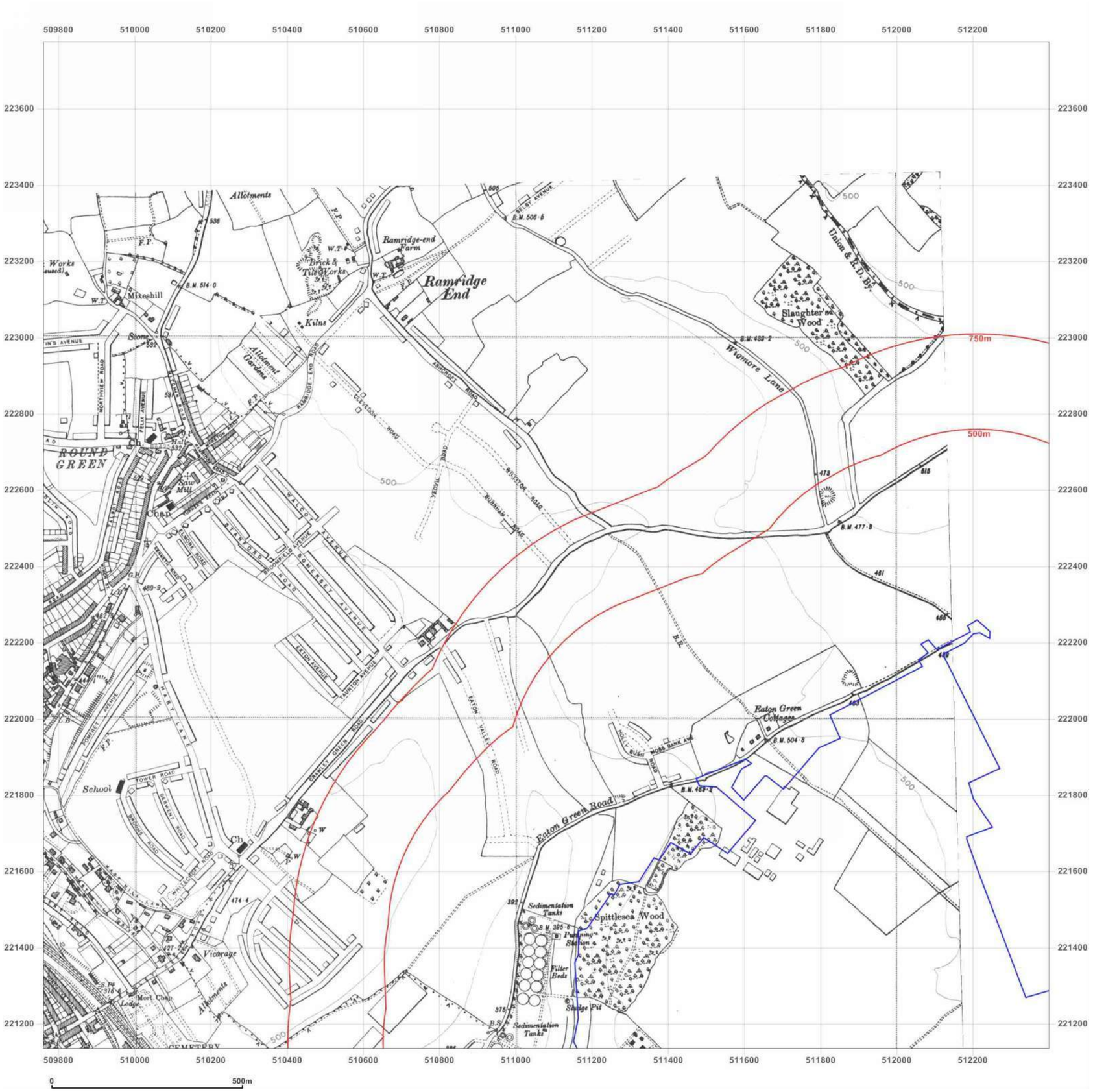

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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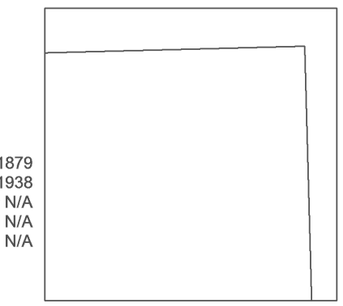

Surveyed 1879
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: County Series

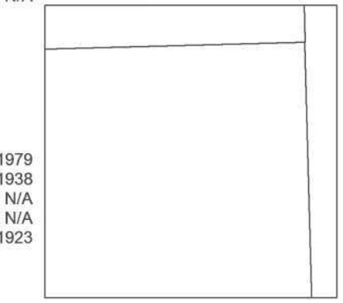
Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

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



Surveyed 1979
Revised 1938
Edition N/A
Copyright N/A
Levelled 1923

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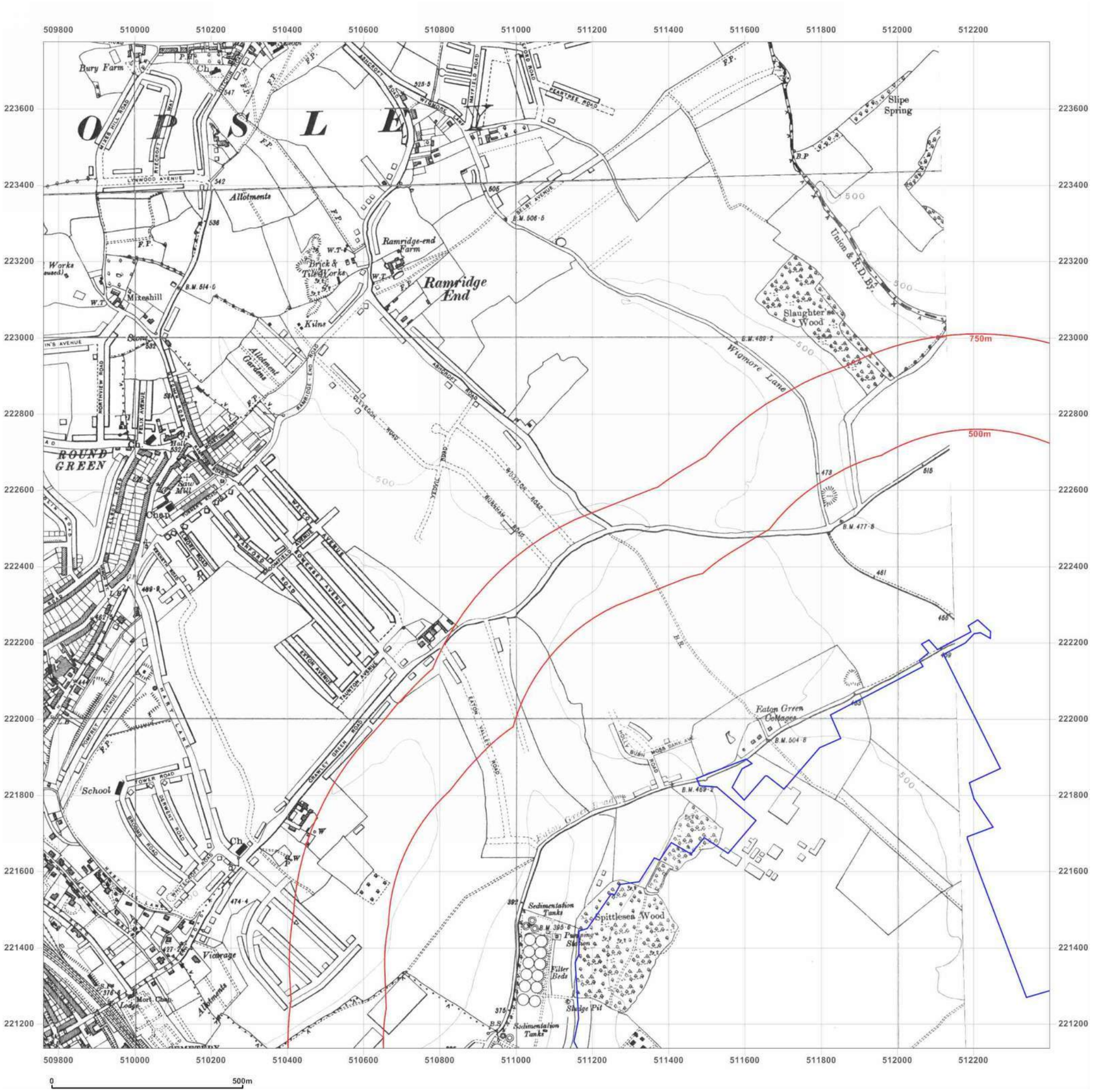


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: County Series

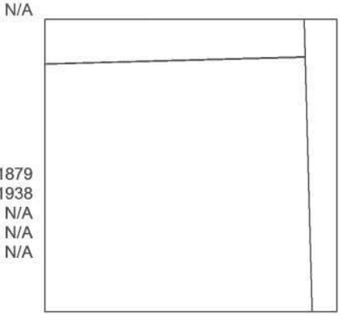
Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A



Surveyed 1879
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

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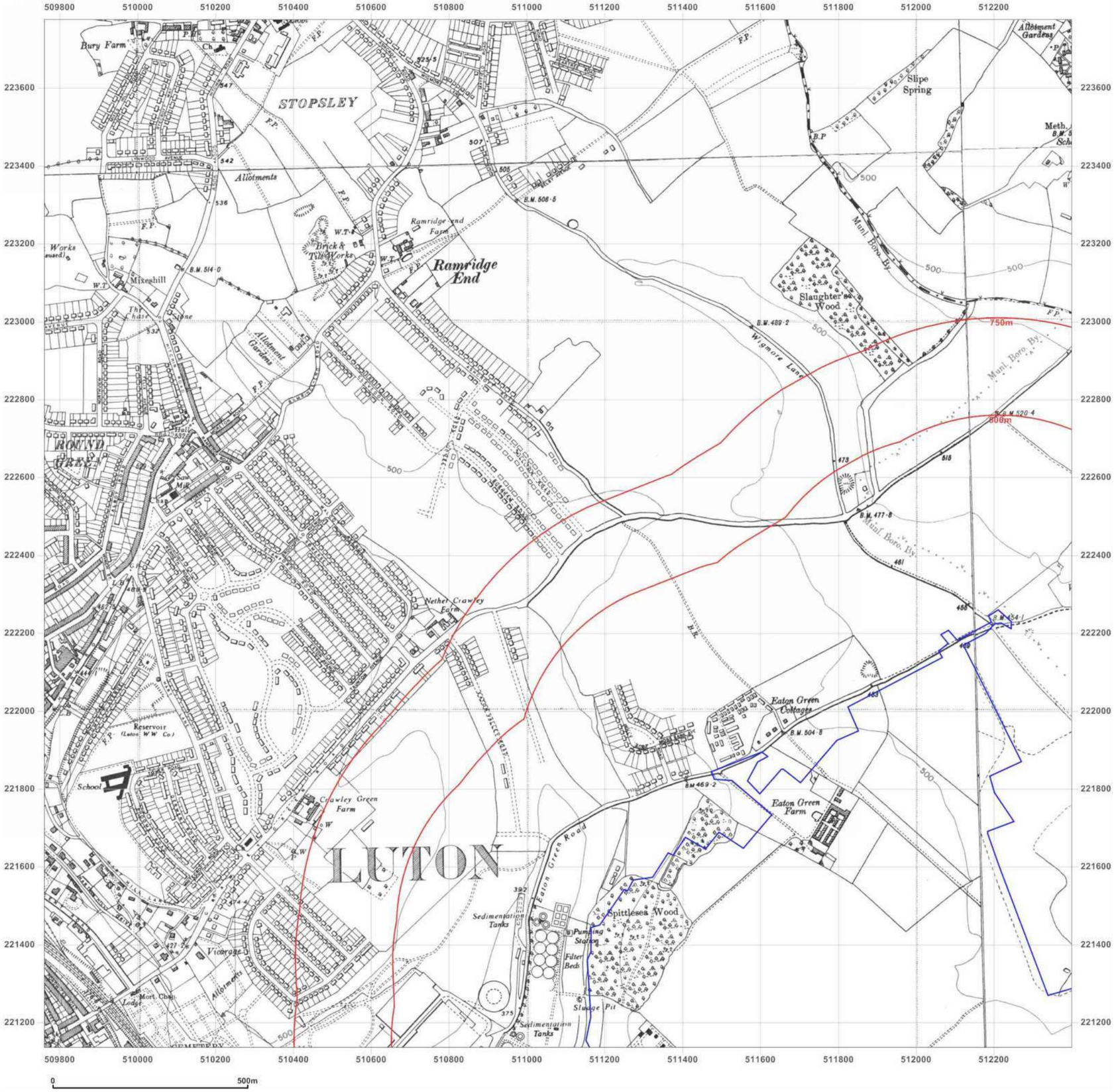

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1947
Edition N/A
Copyright N/A
Levelled 1922

Surveyed 1879
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

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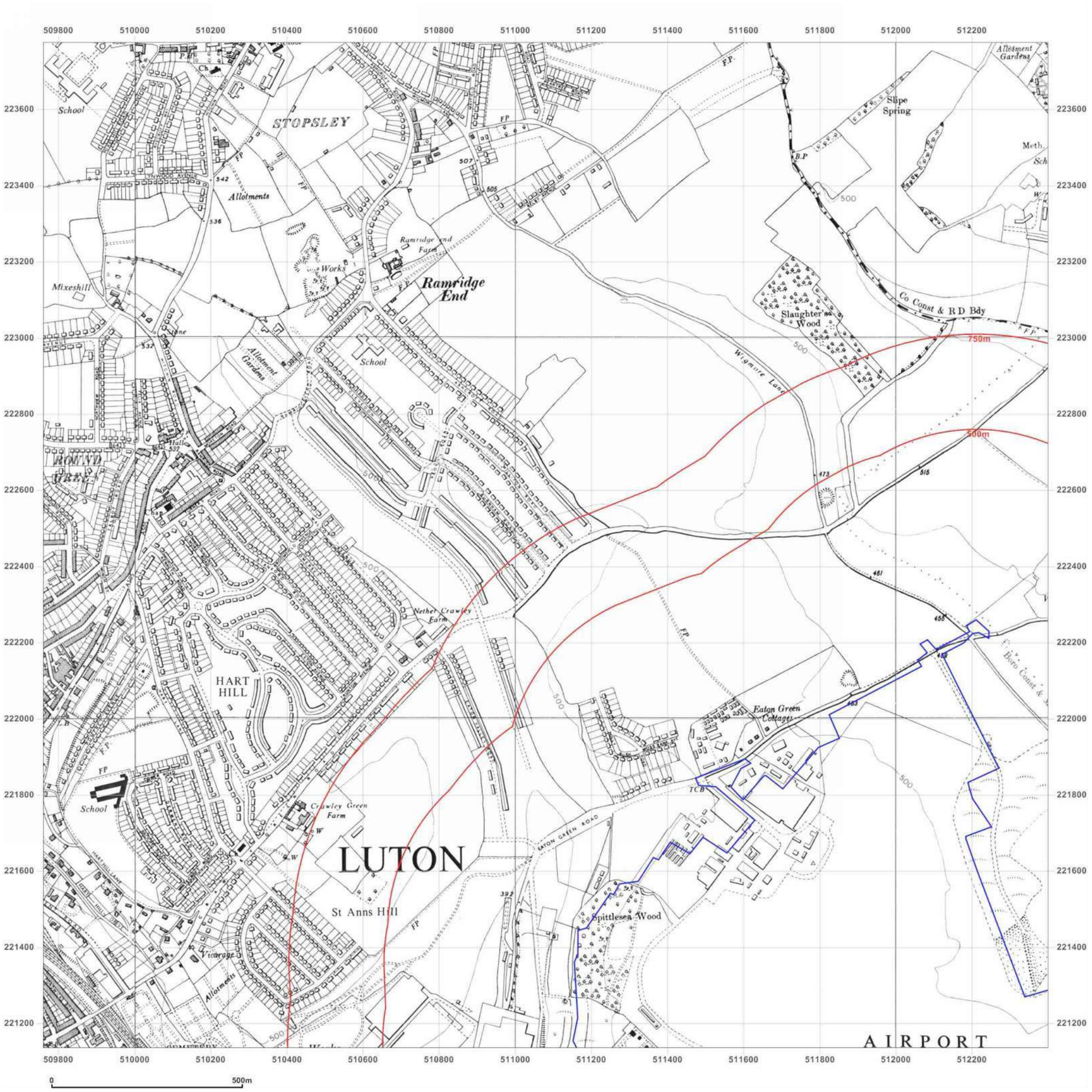

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: Provisional
Map date: **1960-1964**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
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Surveyed N/A
Revised 1964
Edition 1960
Copyright 1960
Levelled N/A

Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

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Map legend available at:
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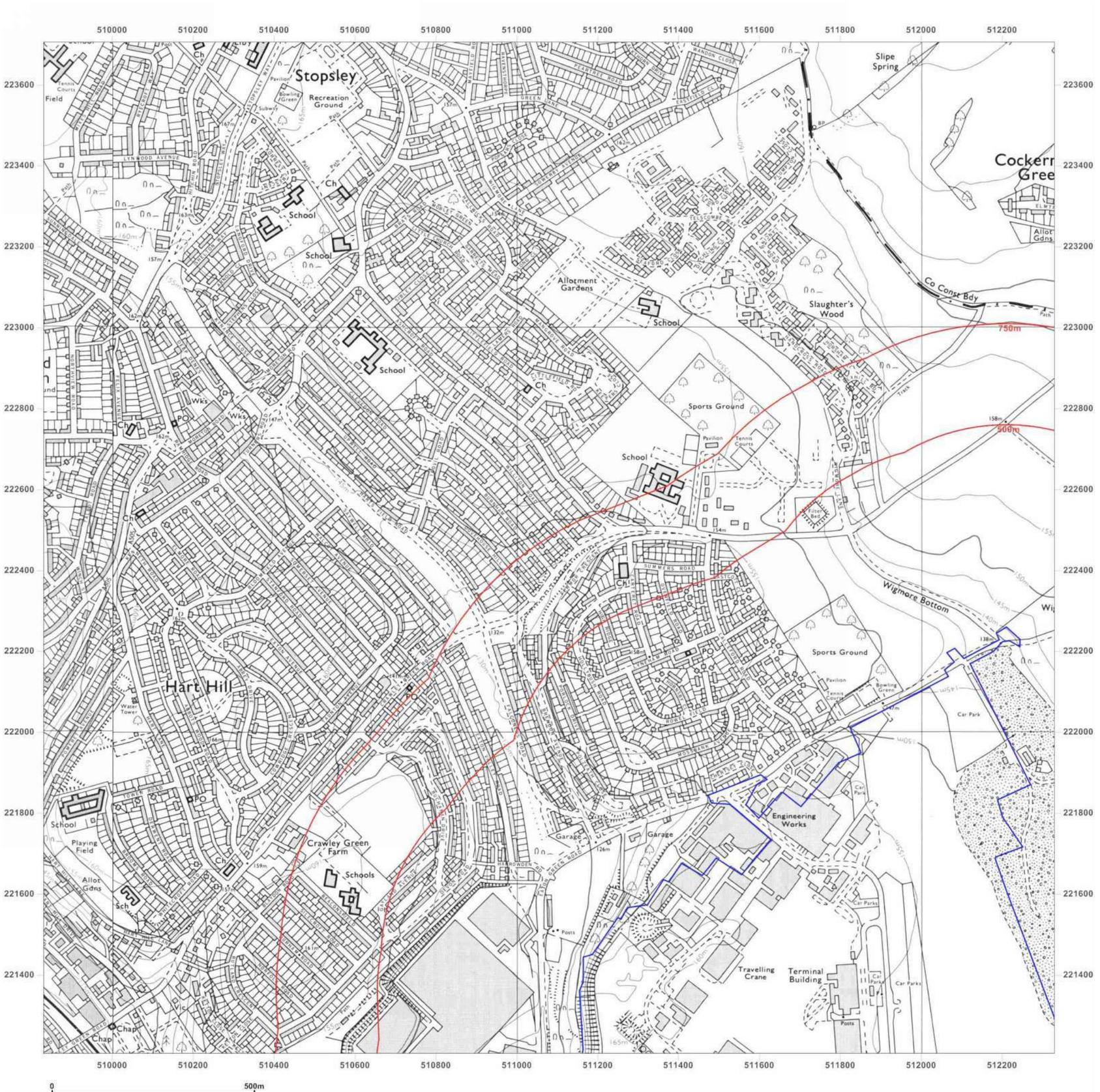

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: National Grid

Map date: **1975-1977**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1974
Revised 1976
Edition N/A
Copyright 1977
Levelled 1970

Surveyed 1973
Revised 1975
Edition N/A
Copyright 1975
Levelled 1973

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Production date: 20 November 2020

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: National Grid

Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 20 November 2020

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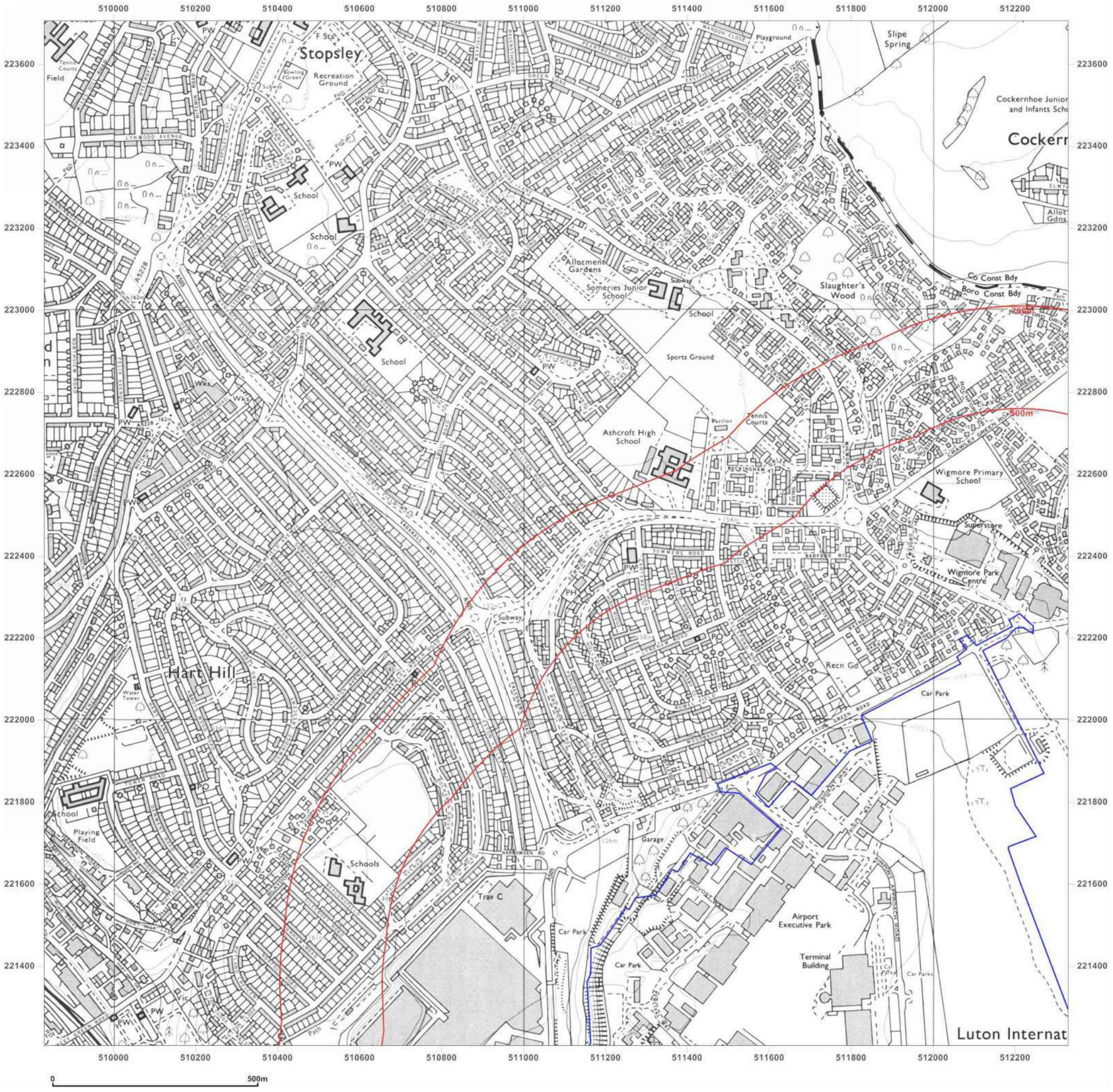

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: National Grid

Map date: **1991**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: National Grid
Map date: **2001**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
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2001

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
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2010

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Production date: 20 November 2020

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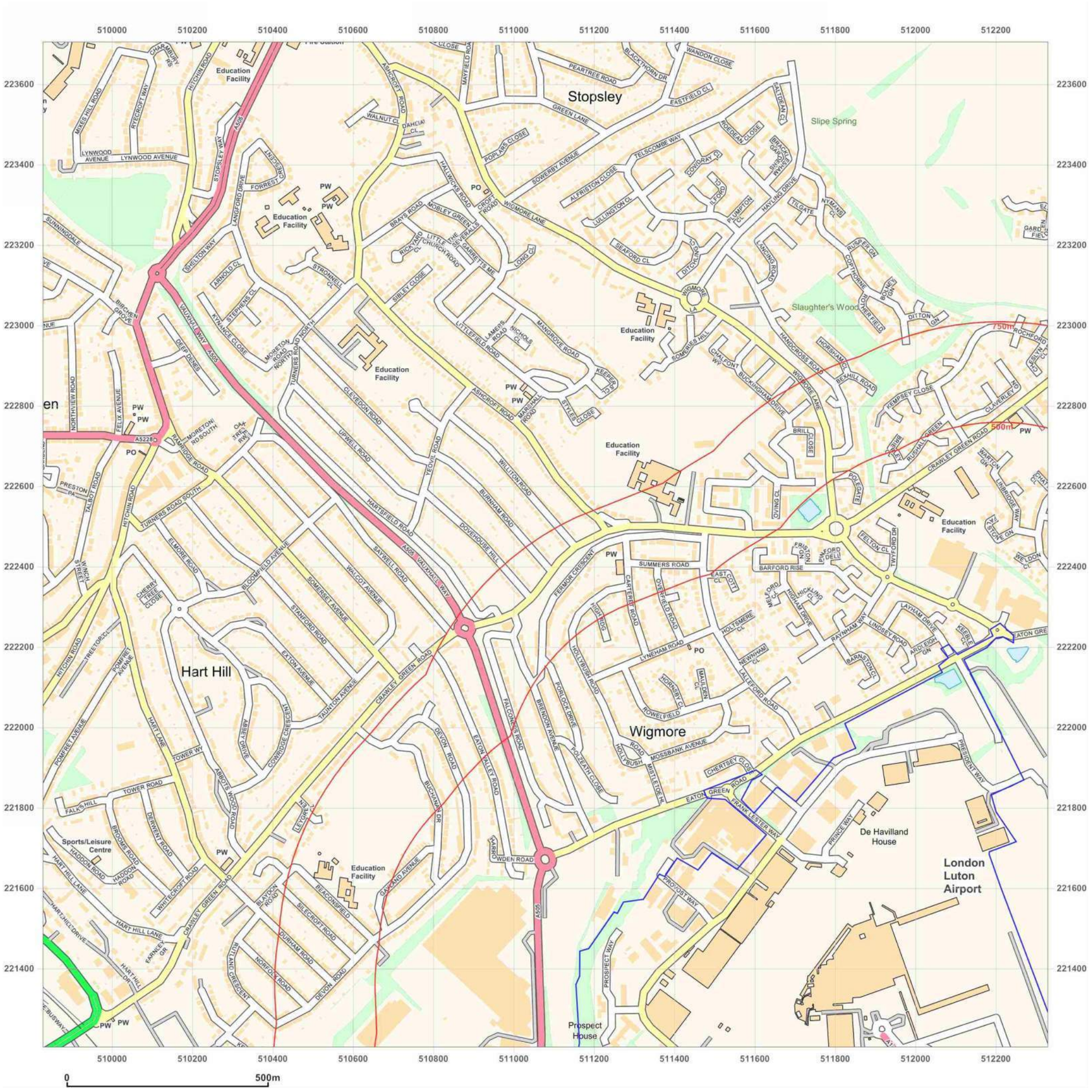

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_1_2
Grid Ref: 511079, 222455

Map Name: National Grid
Map date: **2020**
Scale: 1:10,000
Printed at: 1:10,000

N
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2020

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

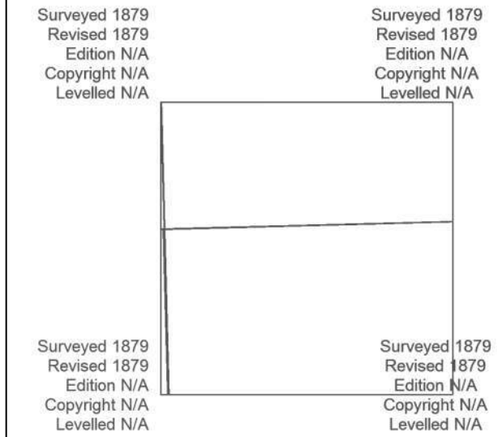
Map Name: County Series

Map date: **1879**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



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Production date: 20 November 2020

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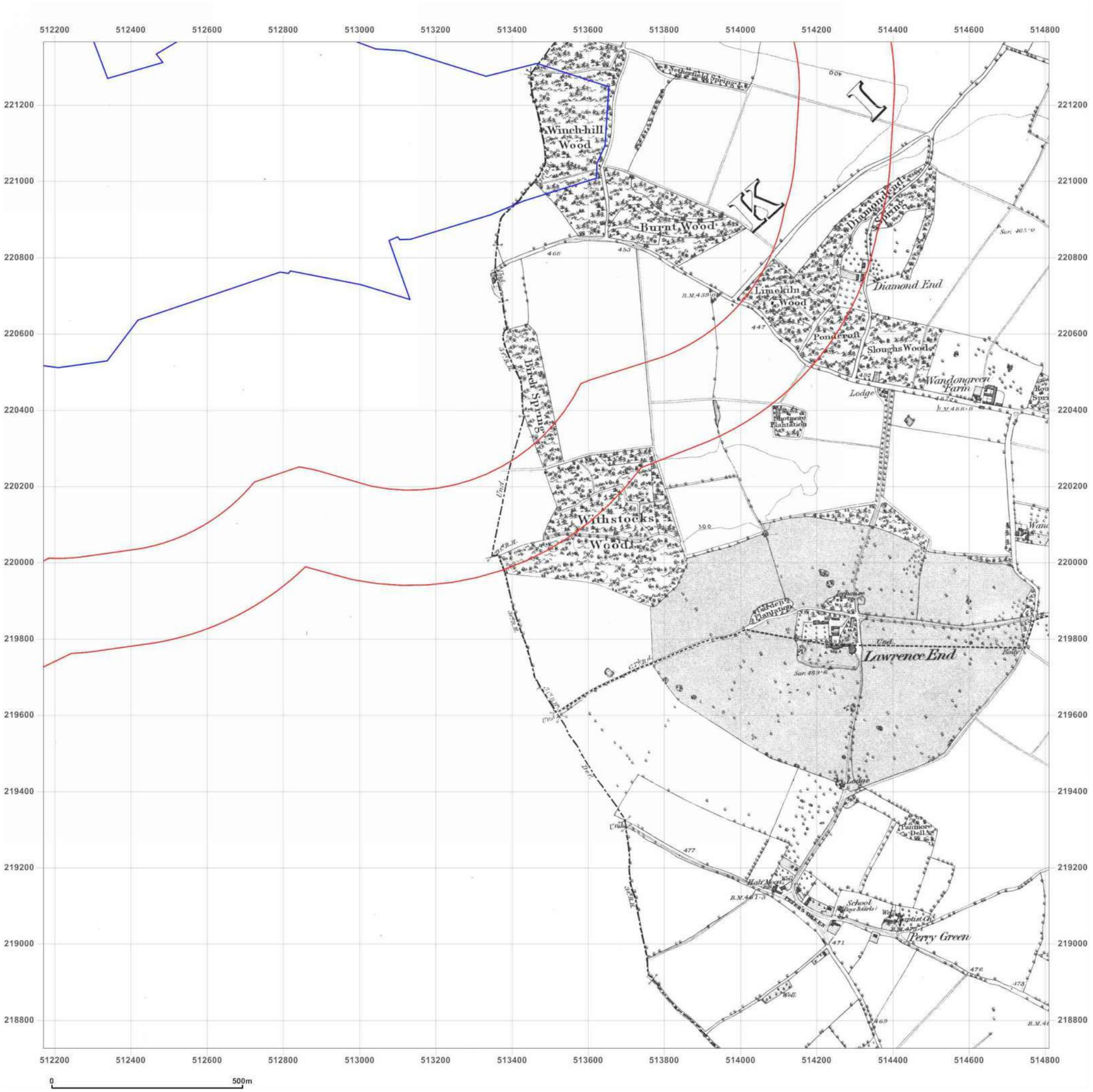

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

Map Name: County Series

Map date: **1884**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1881
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A

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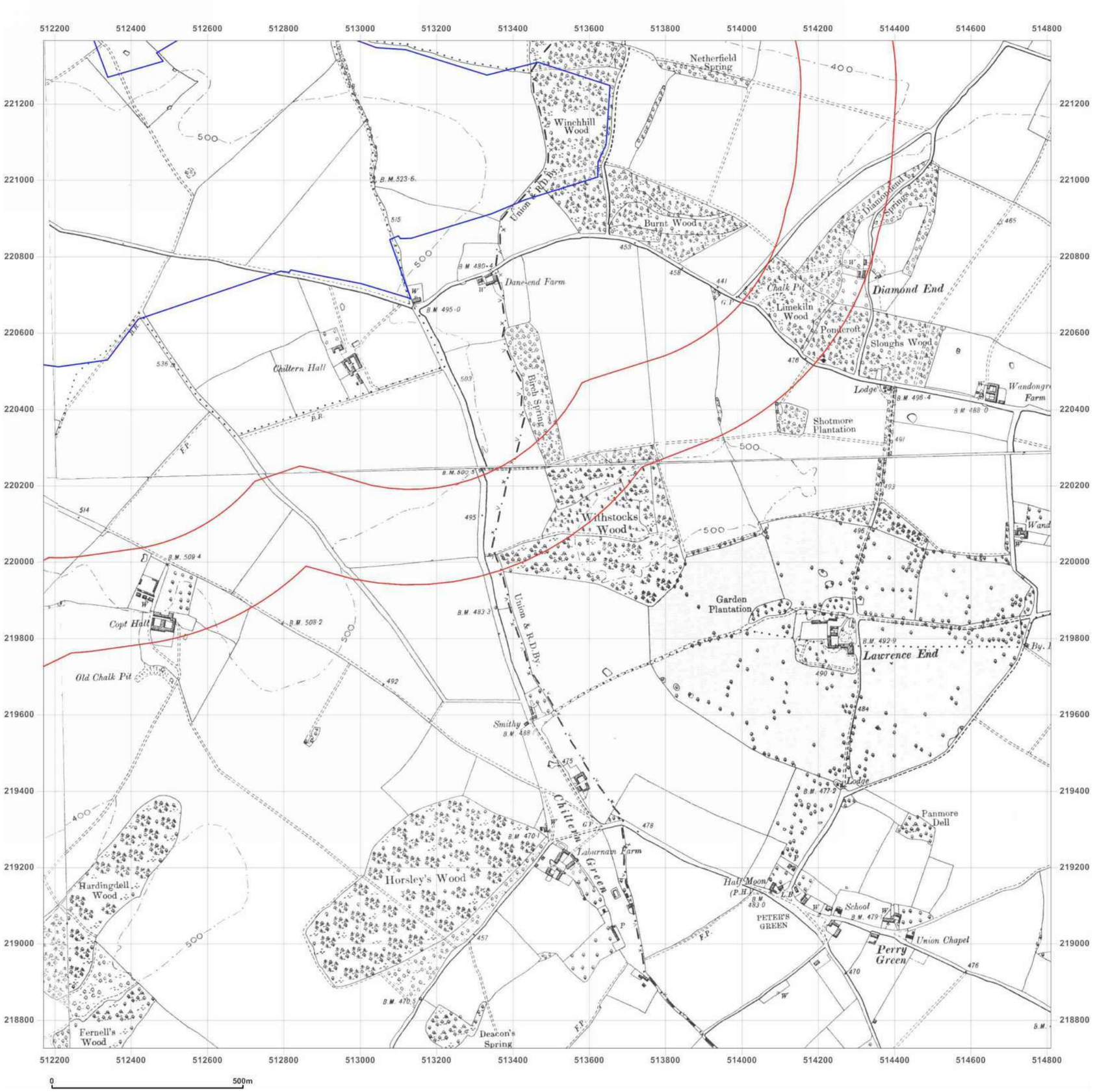

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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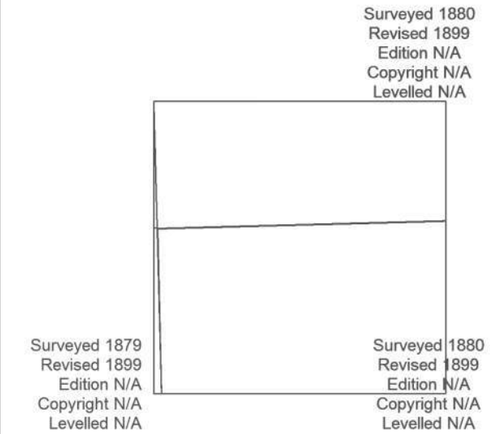

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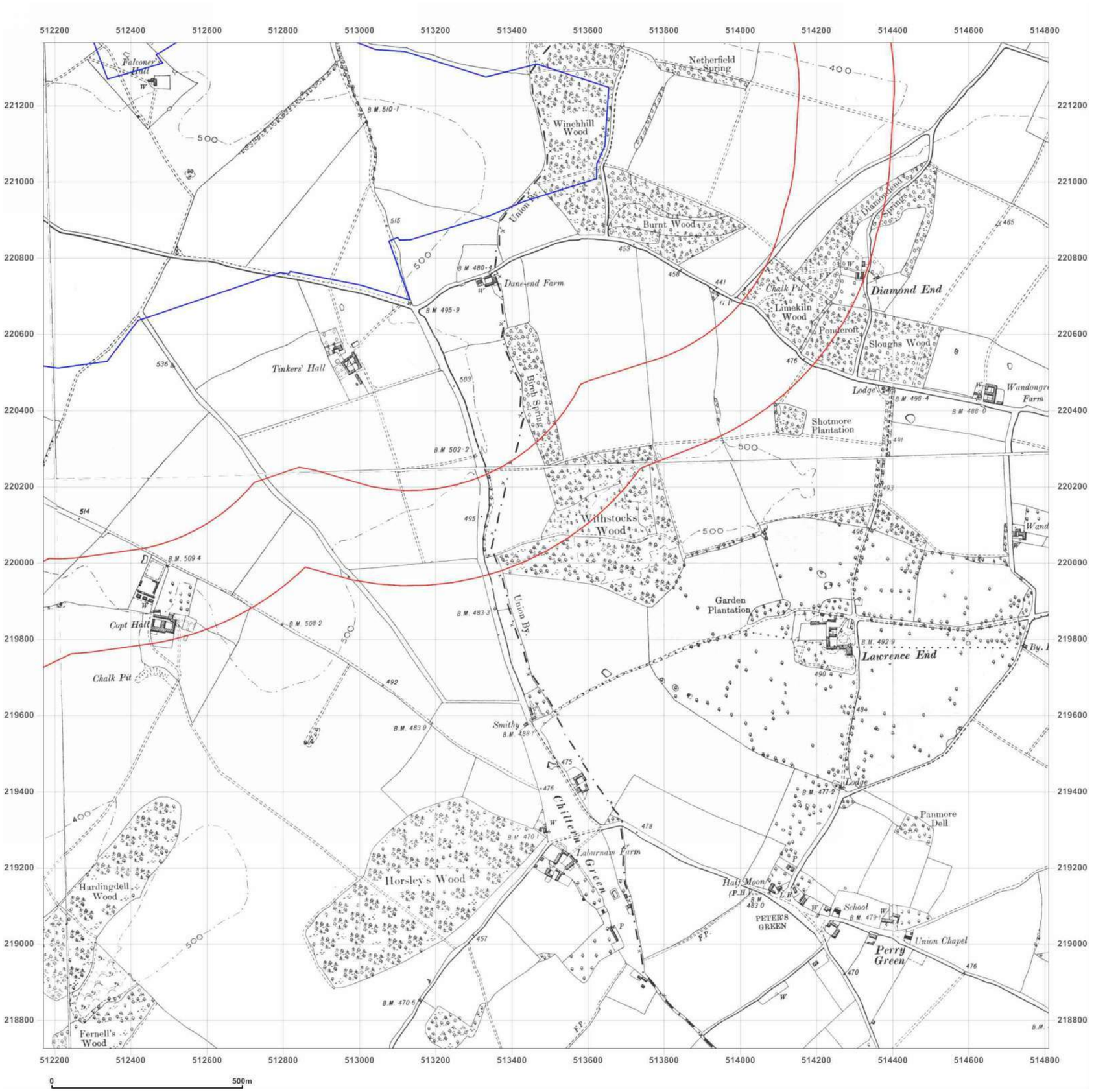

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

Map Name: County Series

Map date: **1899-1900**

Scale: 1:10,560

Printed at: 1:10,560

N
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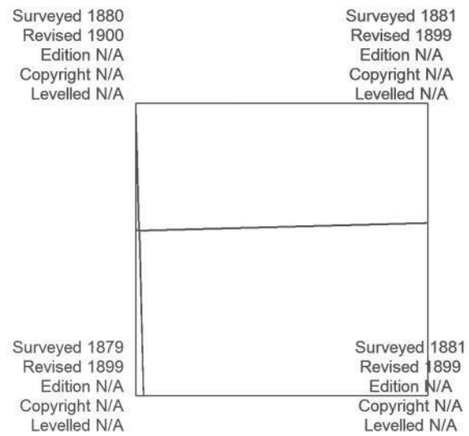

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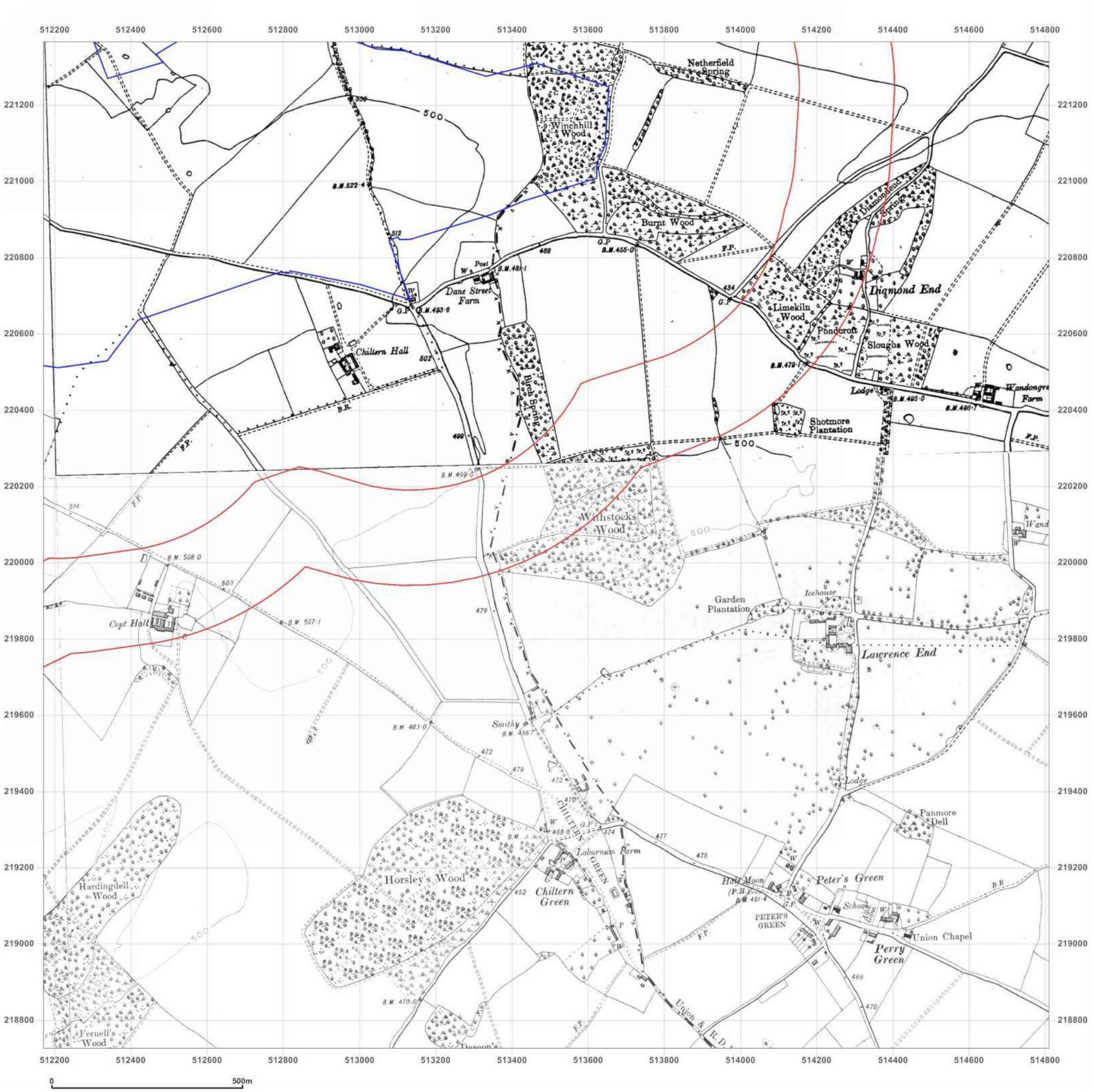


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

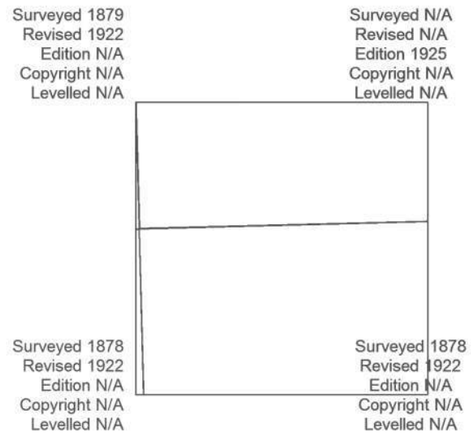
Map Name: County Series

Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



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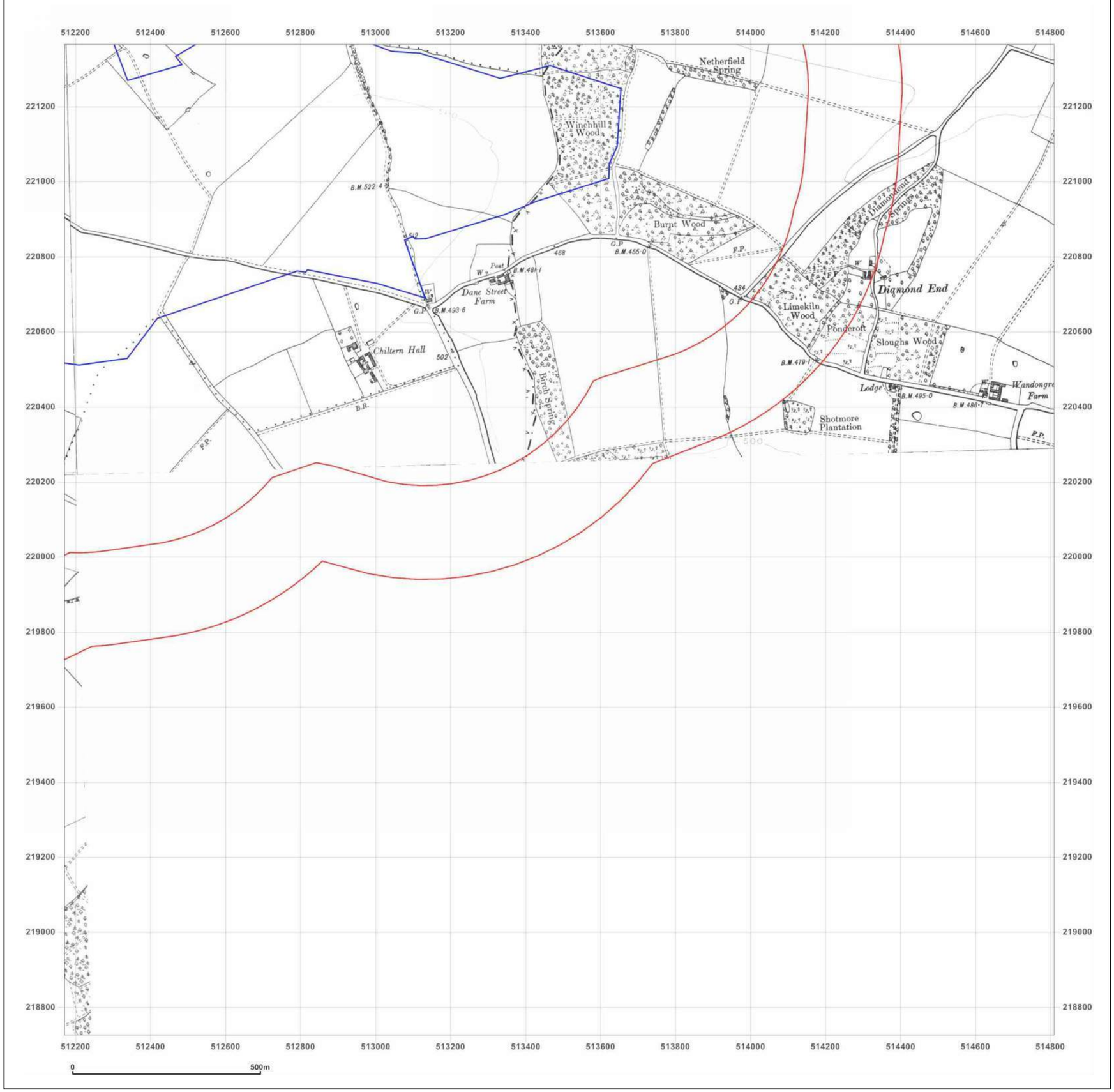


Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

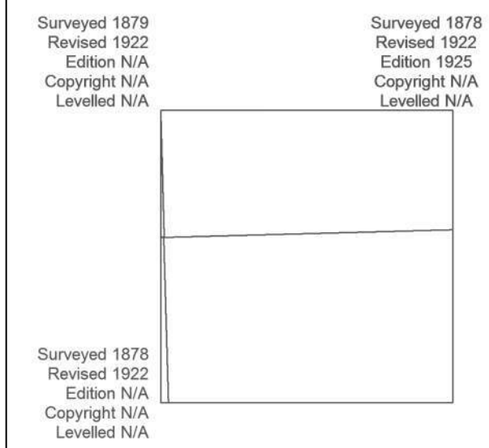
Map Name: County Series

Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

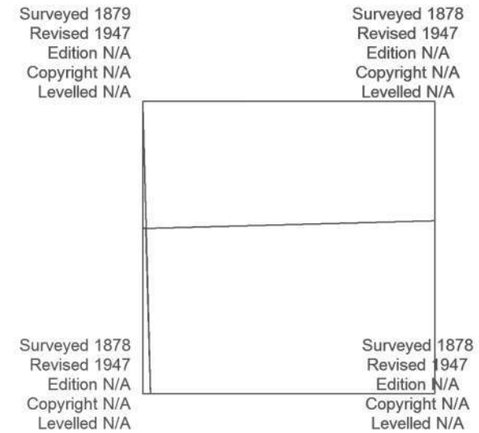
Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



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Production date: 20 November 2020

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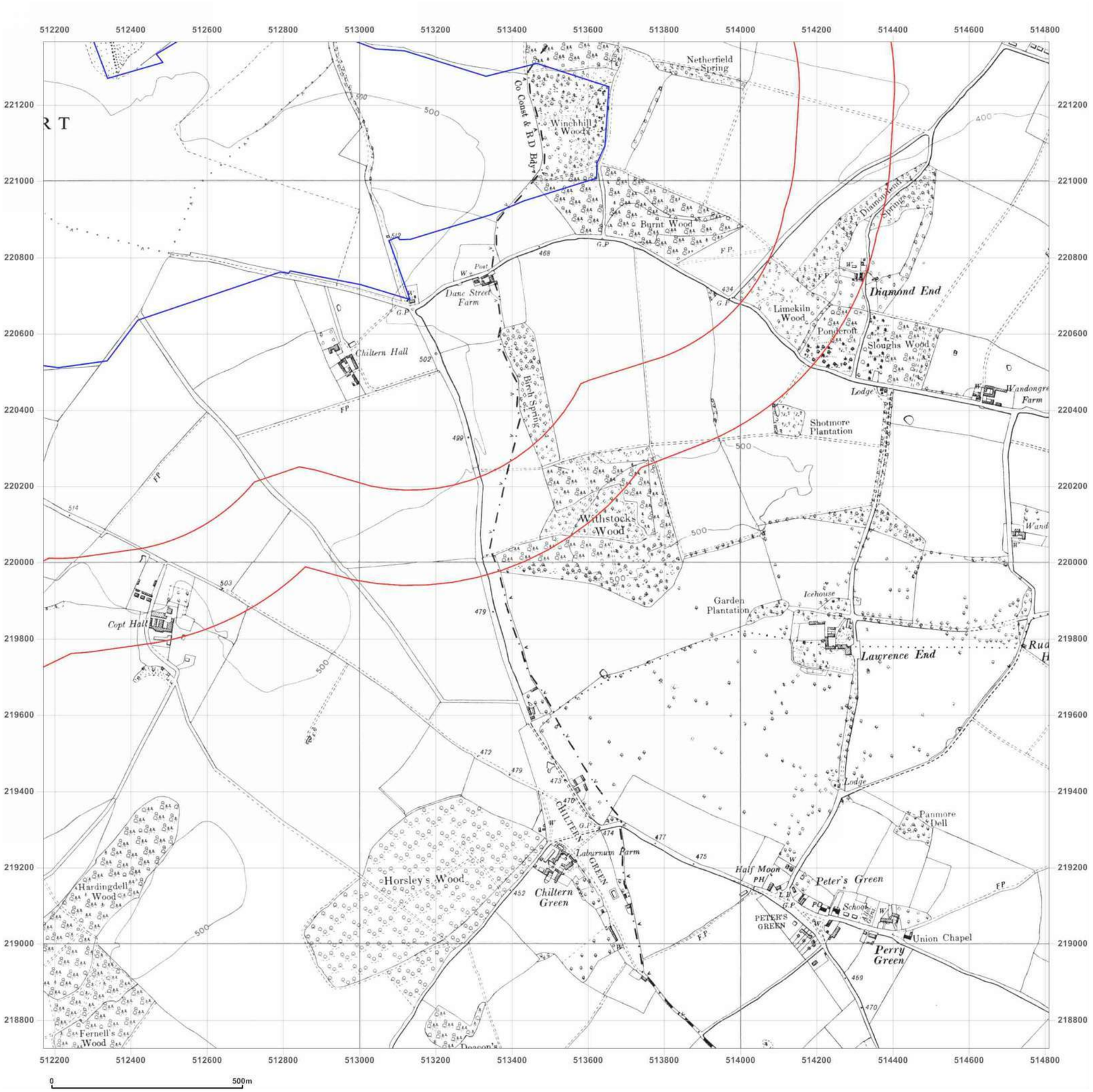

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

Map Name: Provisional
Map date: **1960**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
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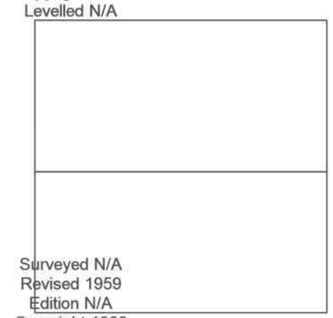
Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A



Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

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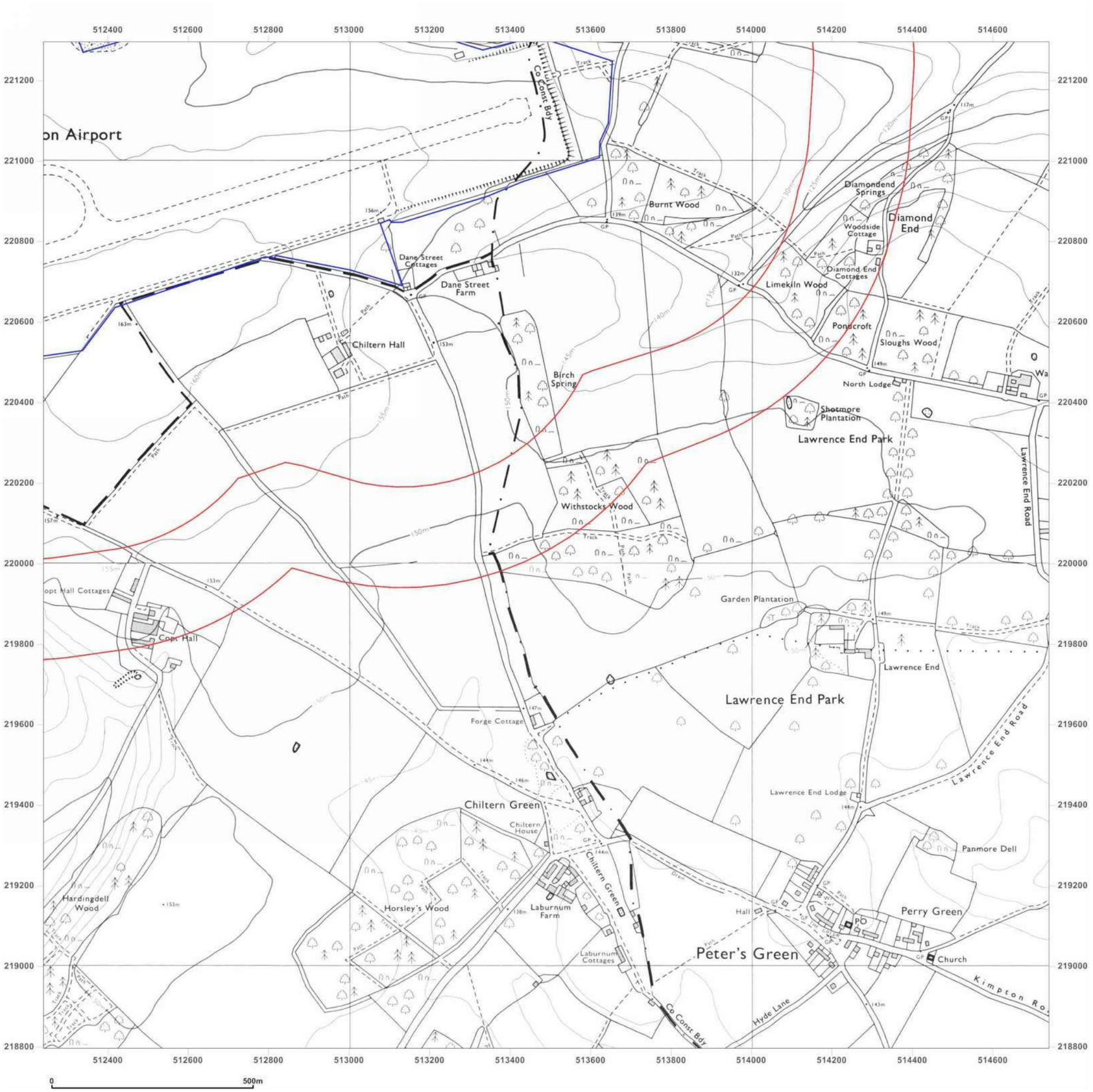

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

Map Name: National Grid

Map date: **1974-1975**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1973
Revised 1975
Edition N/A
Copyright 1975
Levelled 1973

Surveyed 1972
Revised 1974
Edition N/A
Copyright 1974
Levelled 1973

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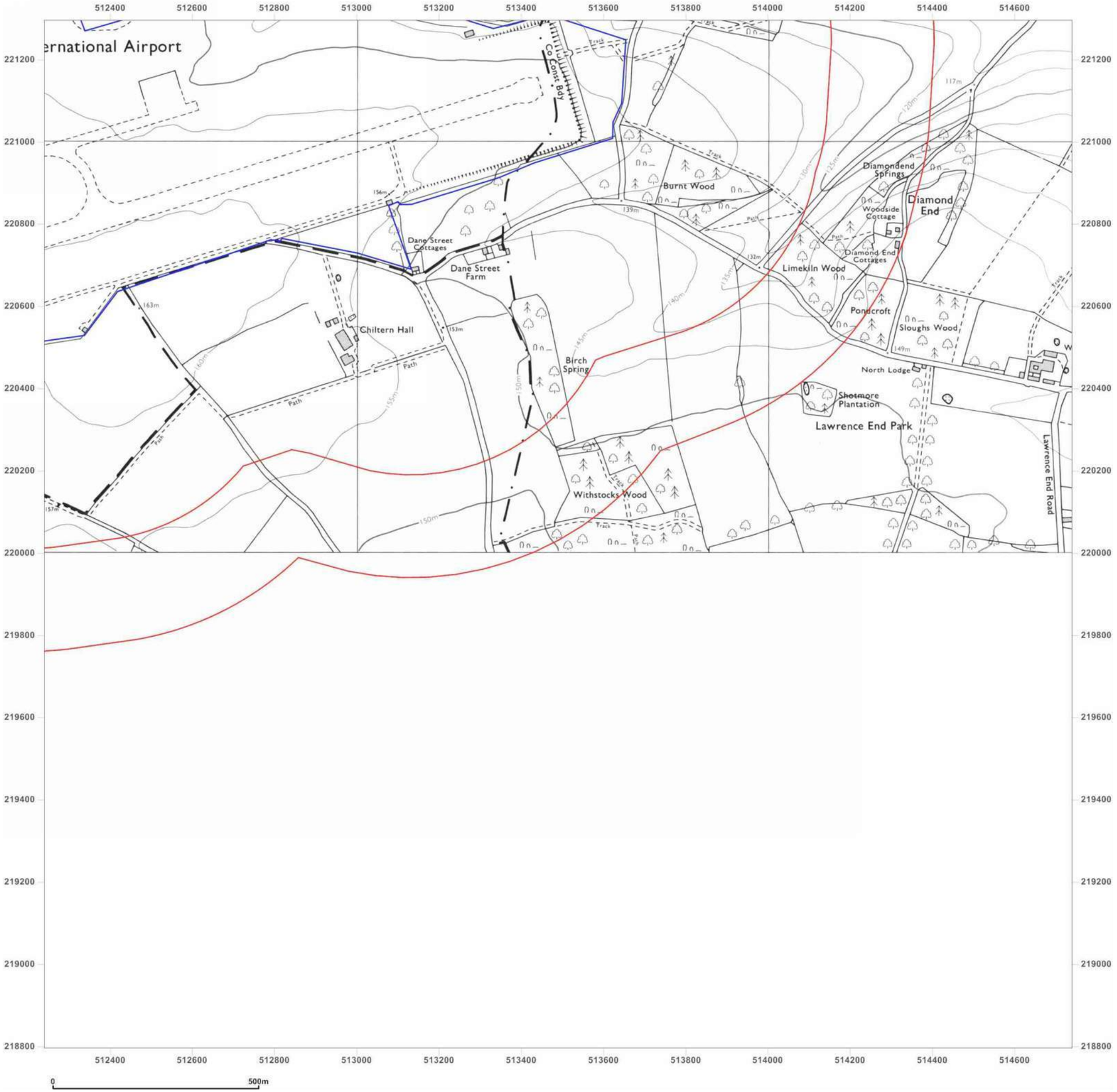

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

Map Name: National Grid

Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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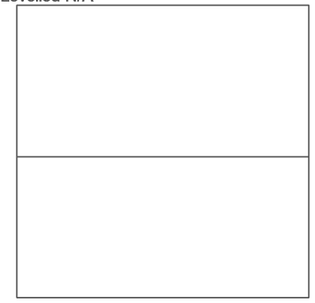
Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A



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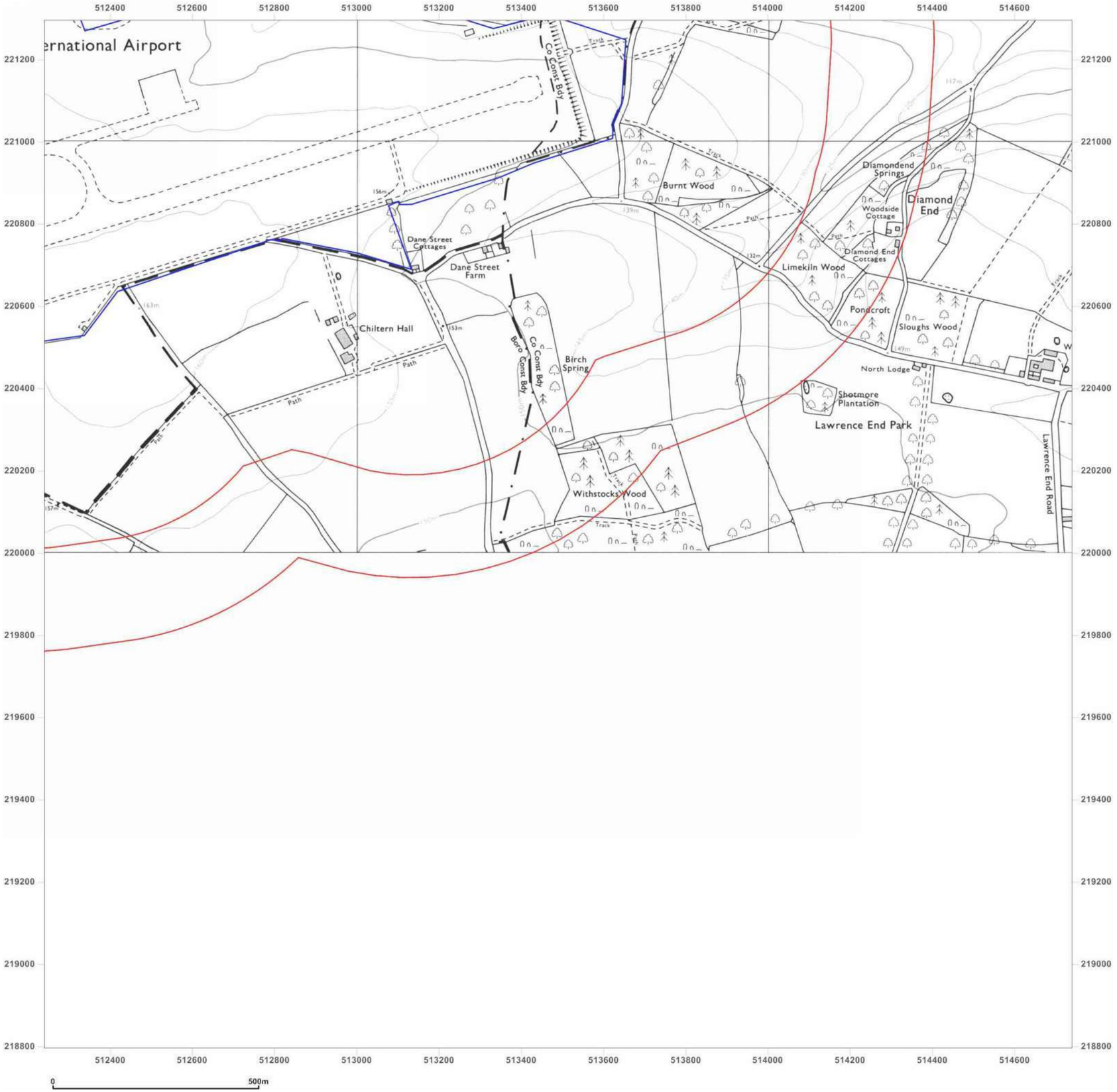


Groundsure INSIGHTS

Site Details:

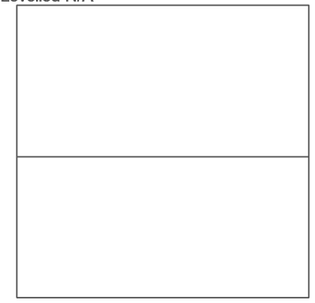
Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

Map Name: National Grid
Map date: **1991**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A



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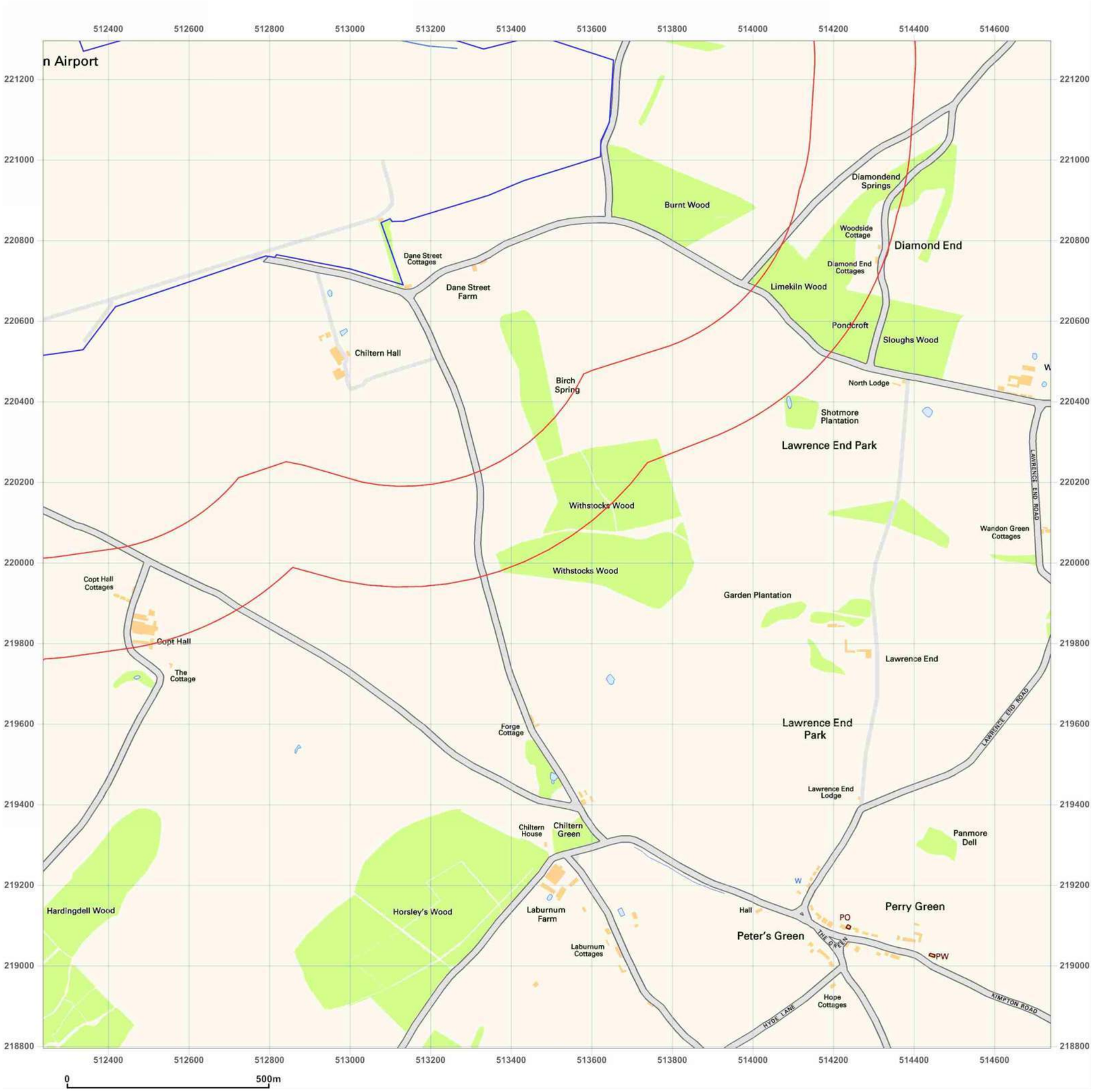

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

Map Name: National Grid
Map date: **2001**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
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2001

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Production date: 20 November 2020

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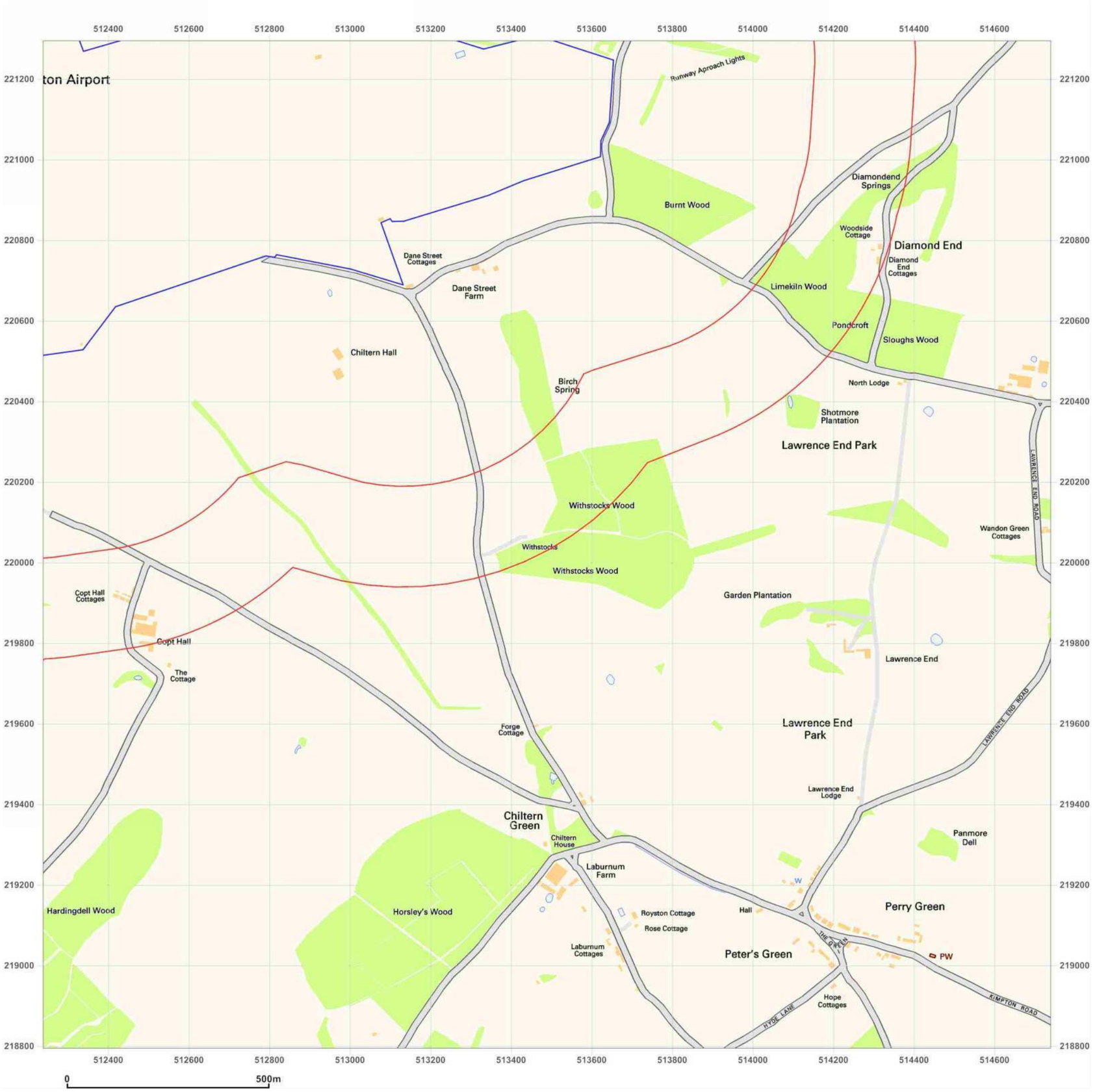

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
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2010

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Production date: 20 November 2020

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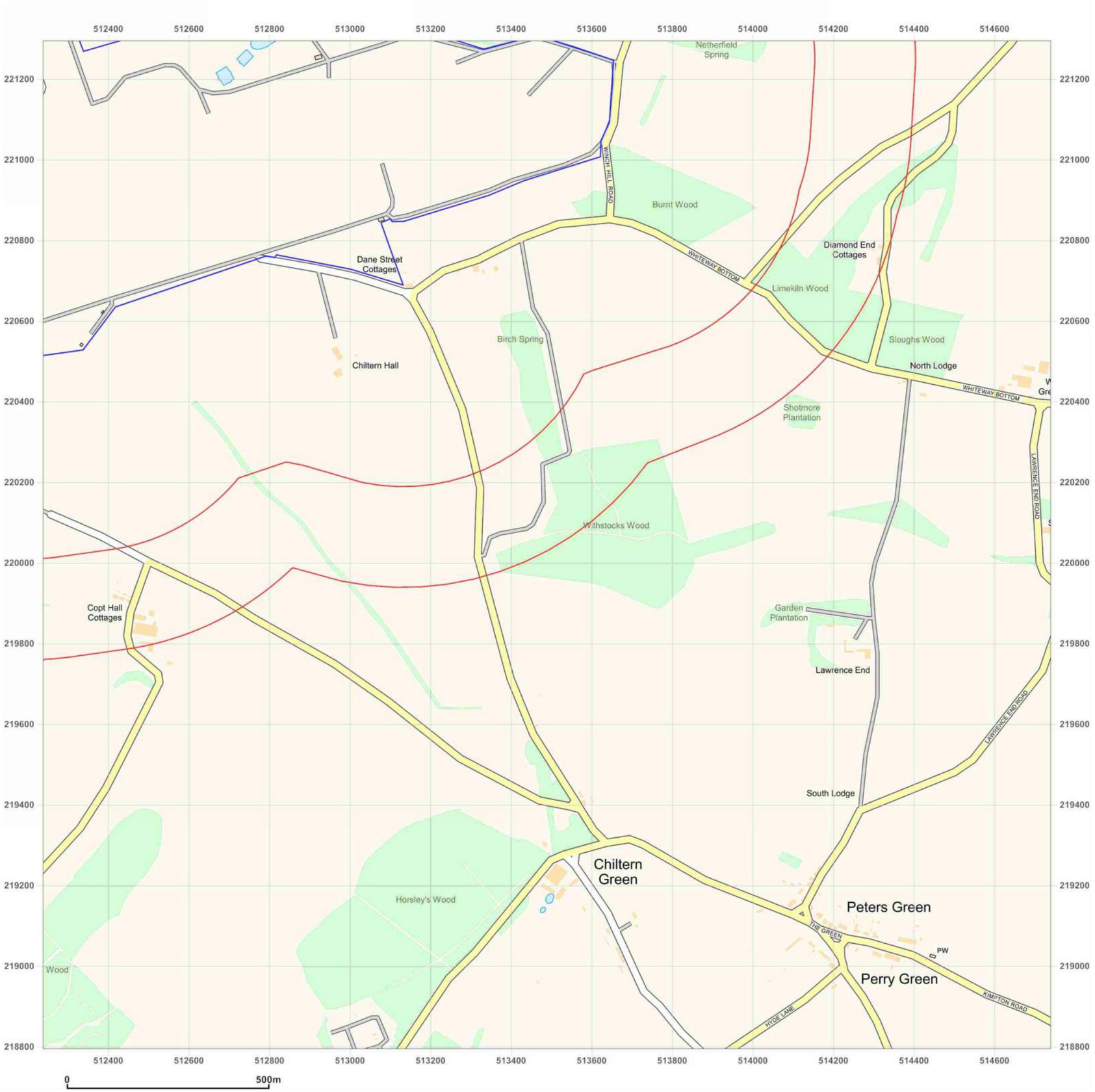

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_1
Grid Ref: 513489, 220045

Map Name: National Grid
Map date: **2020**
Scale: 1:10,000
Printed at: 1:10,000

N
W E
S

2020

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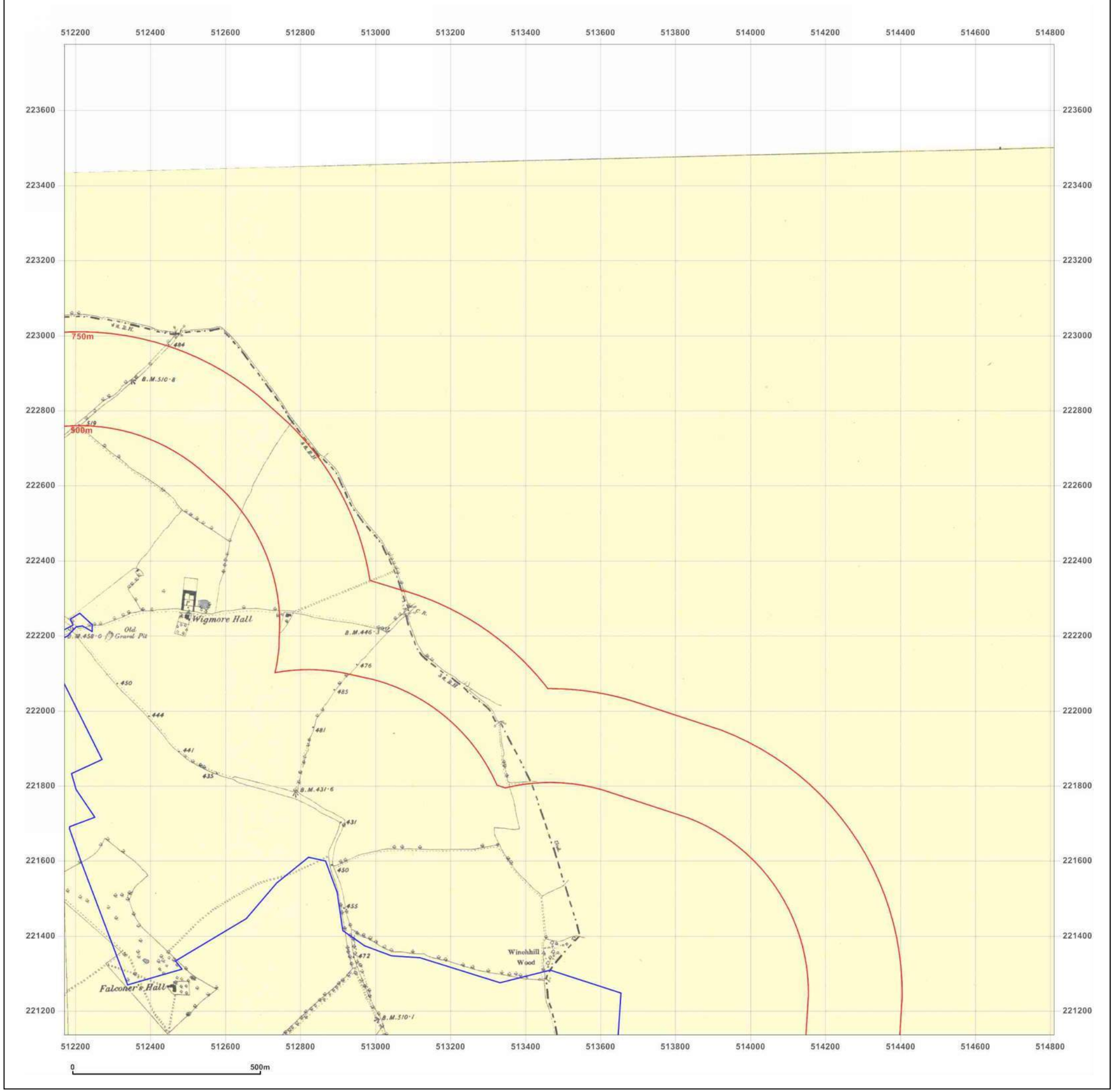
Production date: 20 November 2020

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

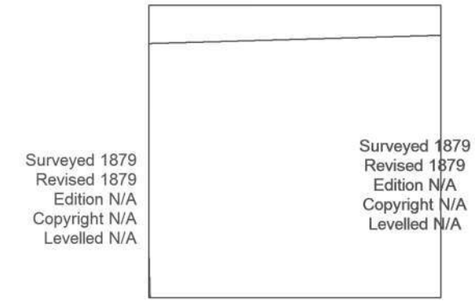
Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: County Series
Map date: **1879**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
S



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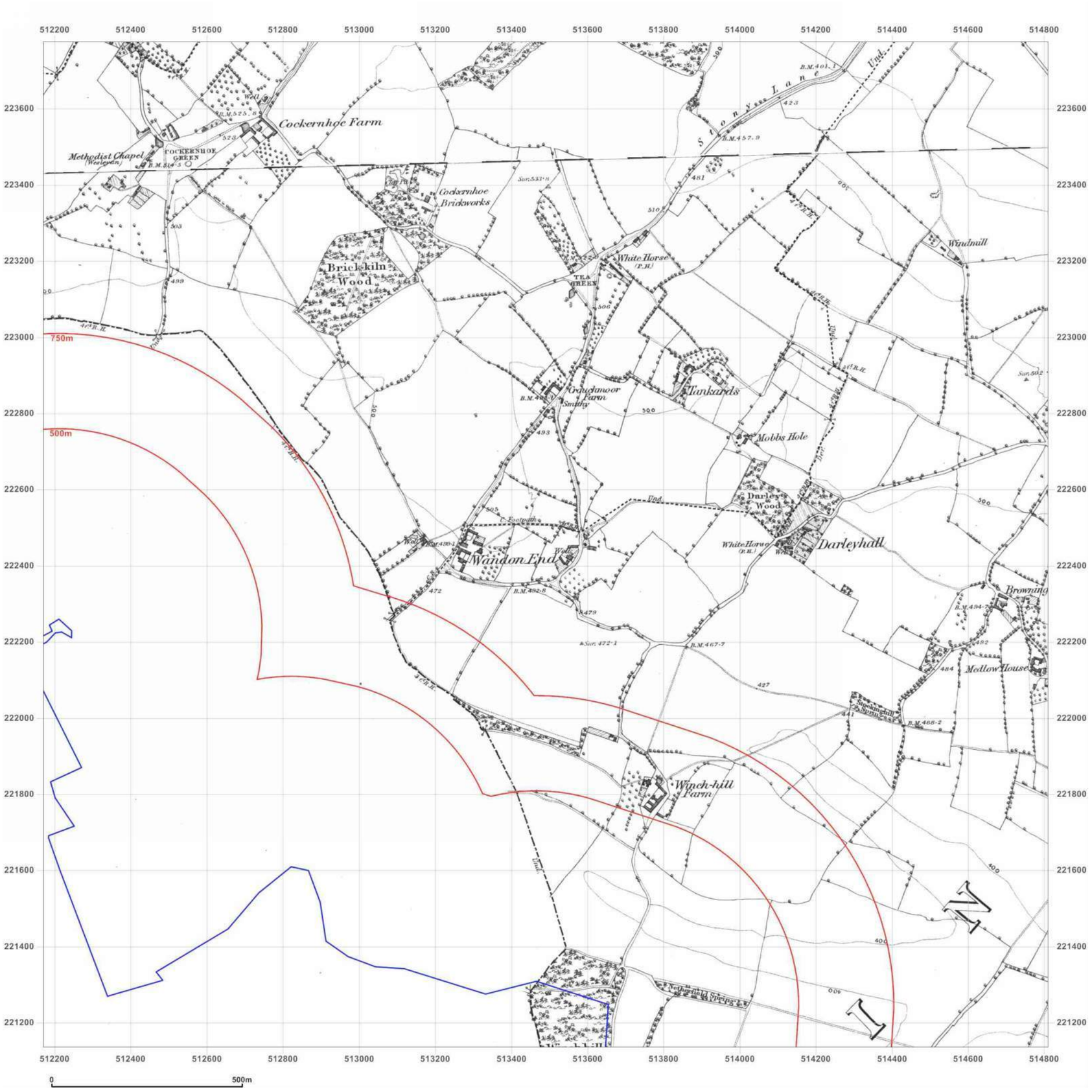

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: County Series

Map date: **1884**

Scale: 1:10,560

Printed at: 1:10,560

N
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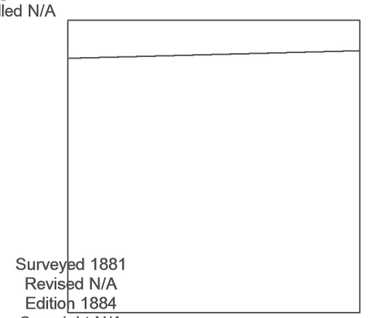
Surveyed 1880
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A



Surveyed 1881
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A

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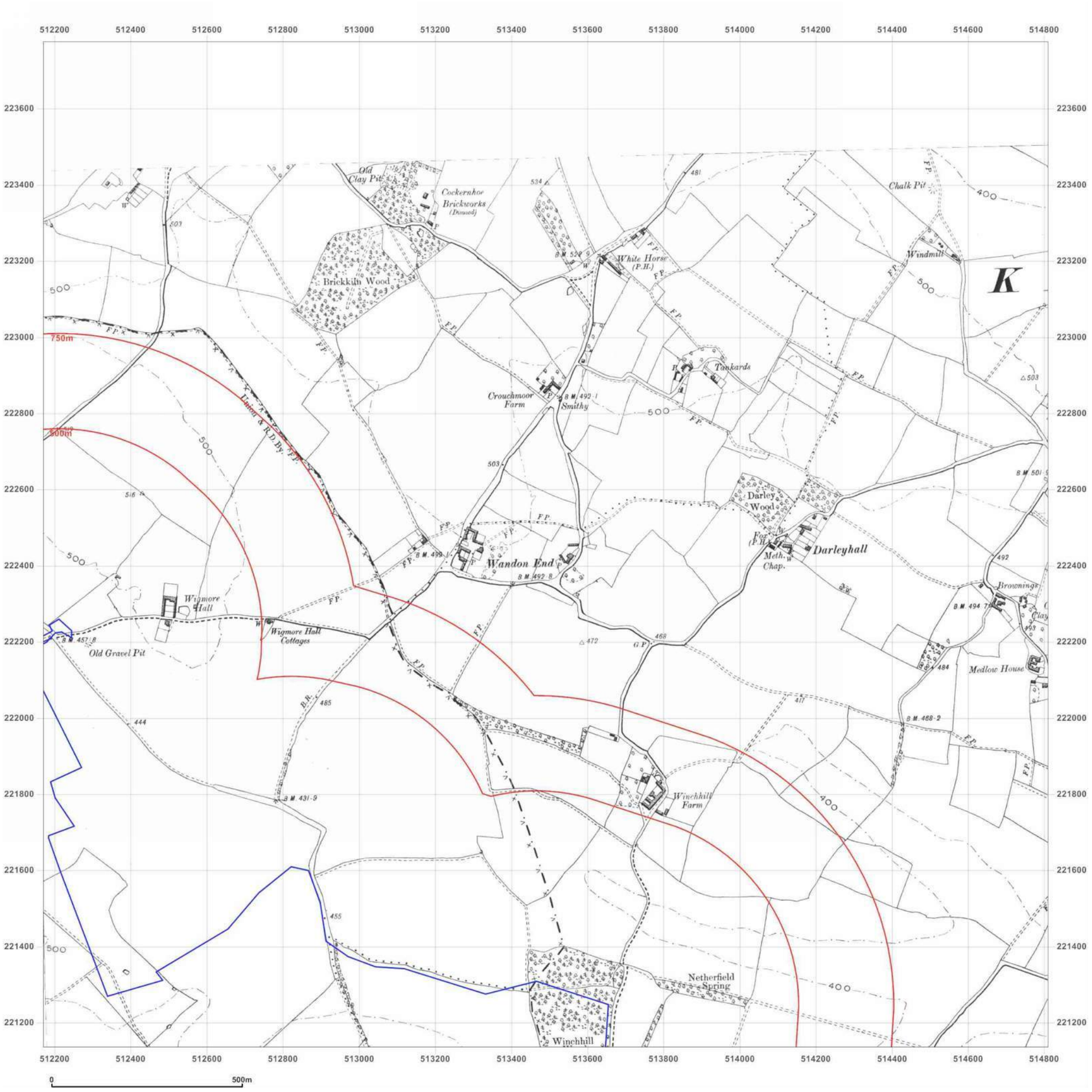

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1880
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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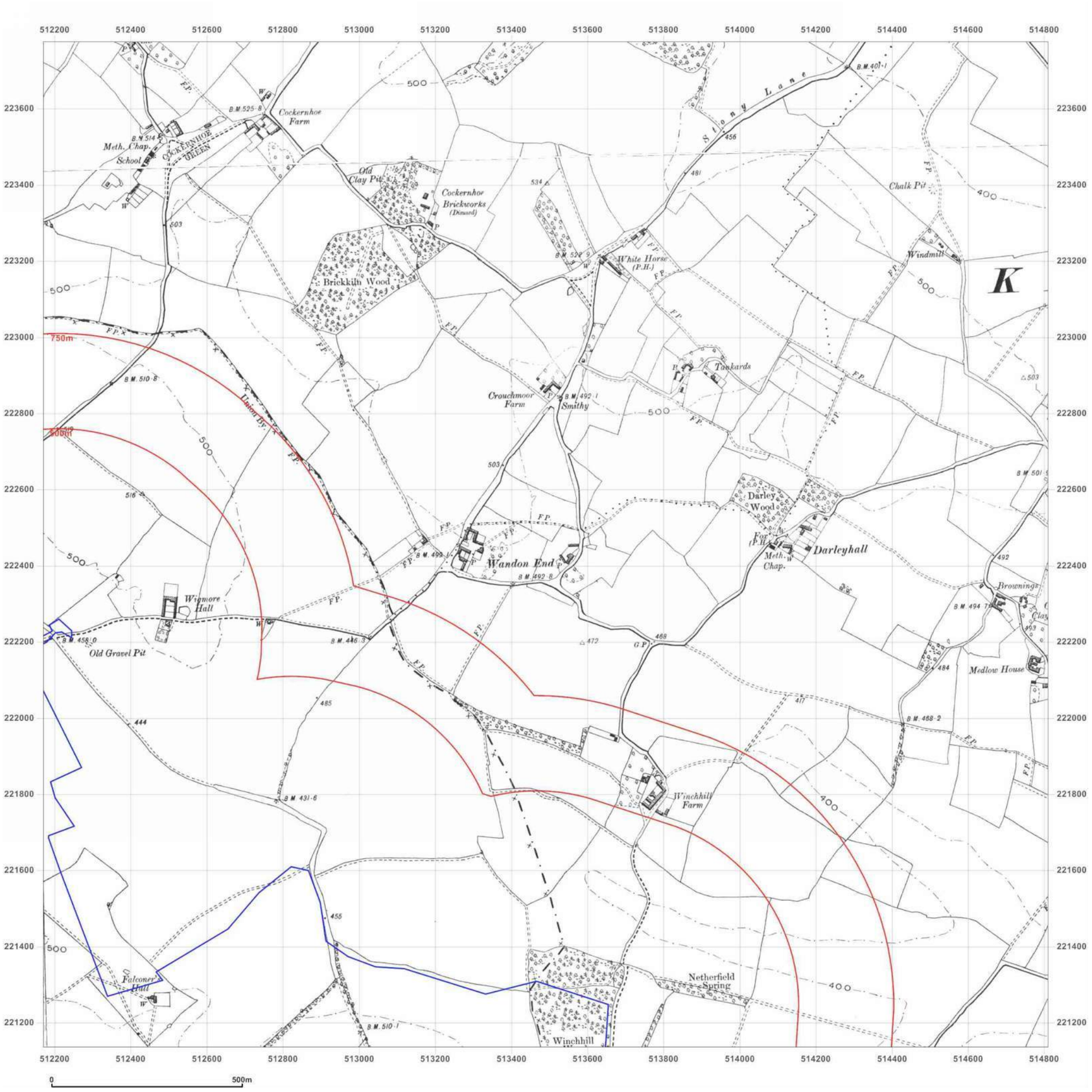

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: County Series

Map date: **1897-1900**

Scale: 1:10,560

Printed at: 1:10,560

N
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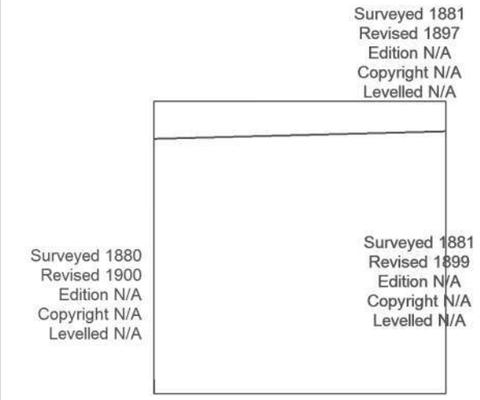

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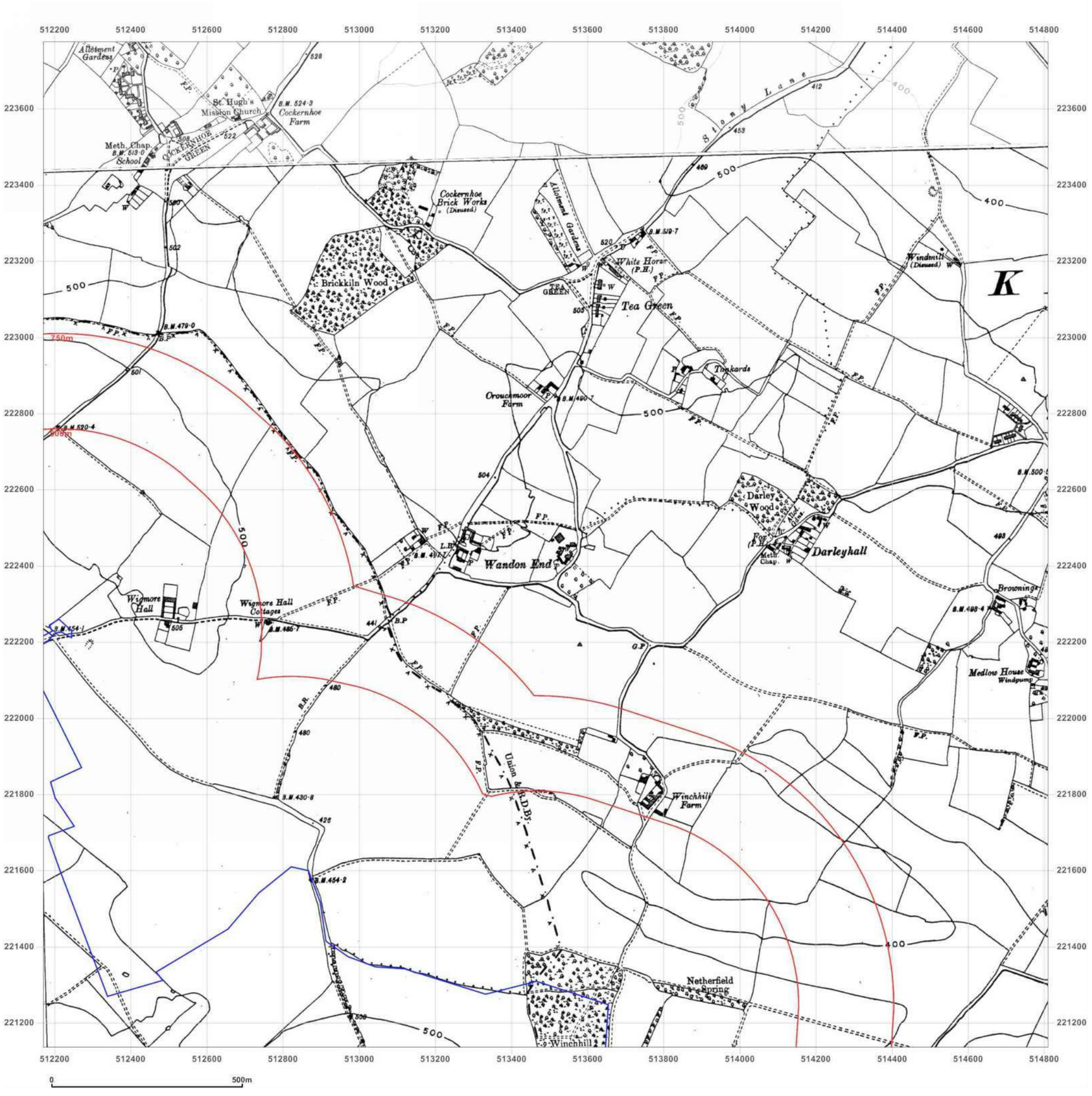


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: County Series

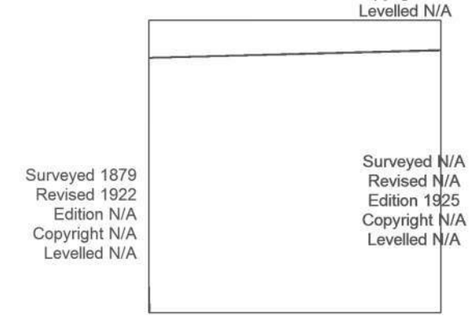
Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1922
Edition 1925
Copyright N/A
Levelled N/A



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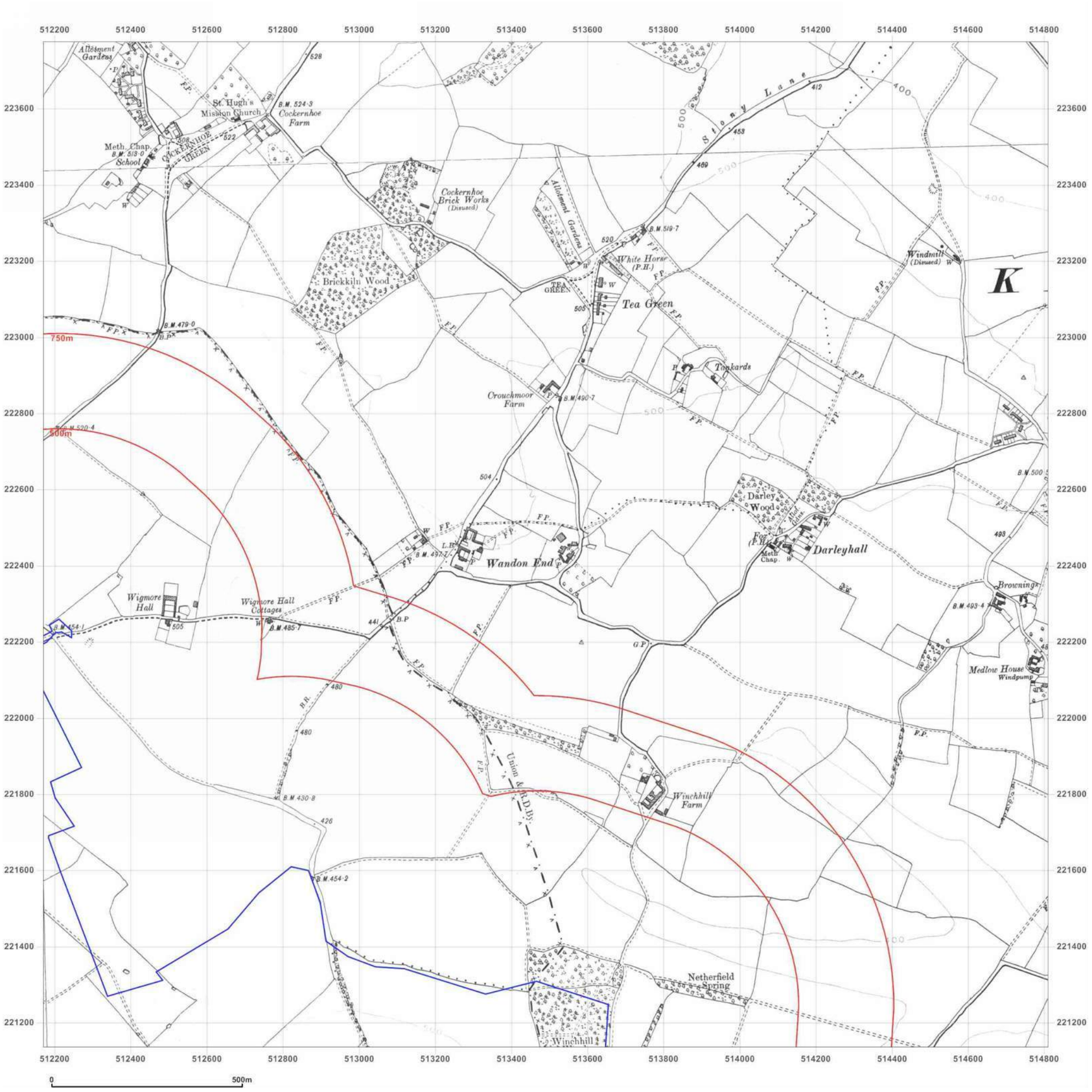

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: County Series

Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1879
Revised 1922
Edition N/A
Copyright 1925
Levelled N/A

Surveyed 1879
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1922
Edition 1925
Copyright N/A
Levelled N/A

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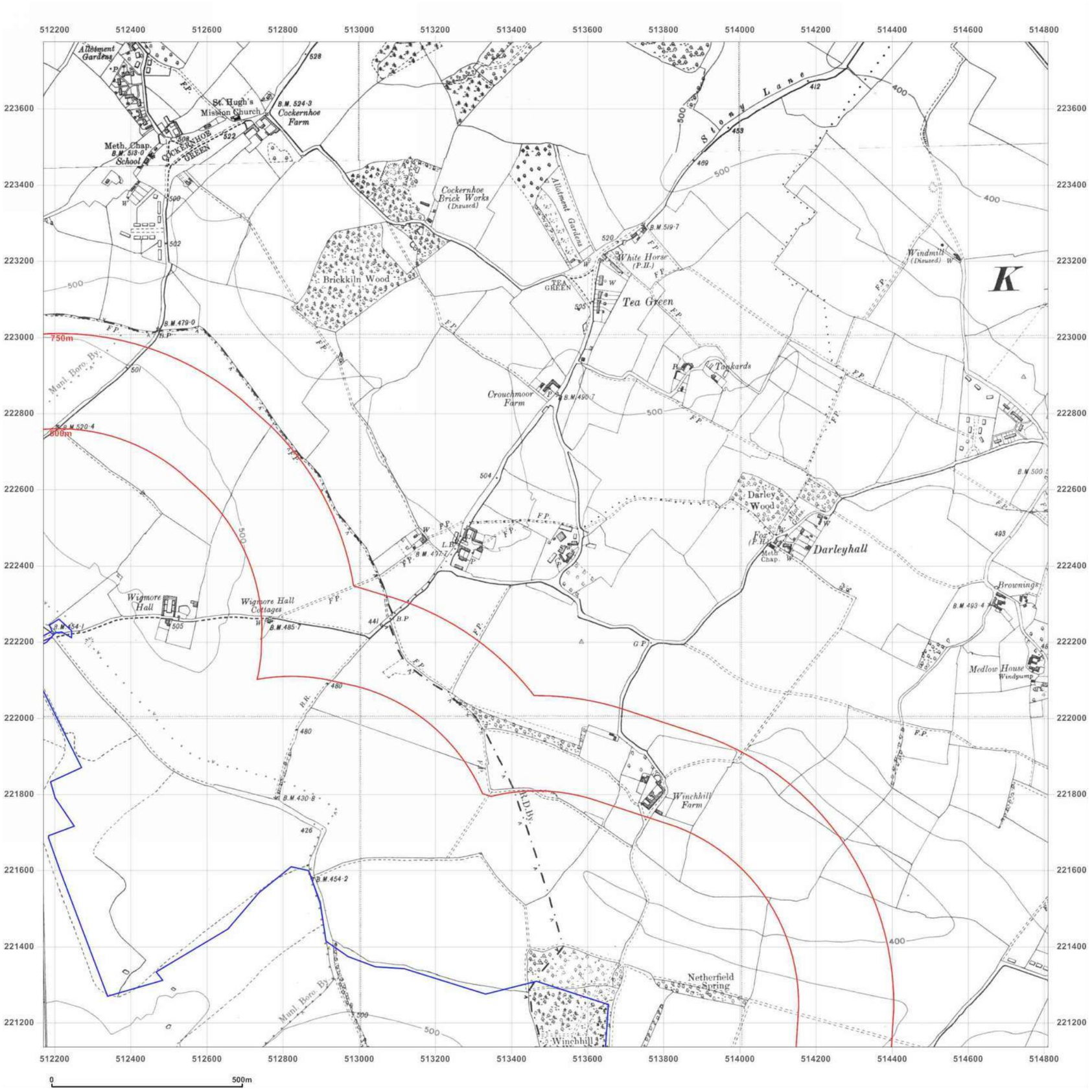

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

N
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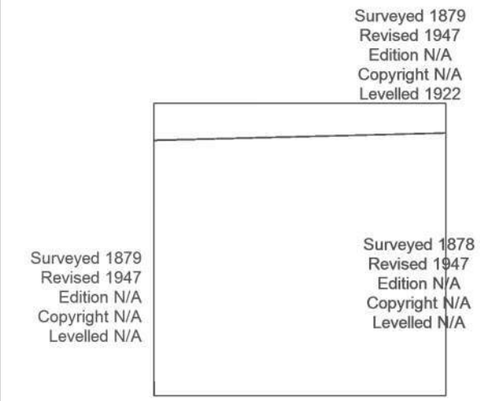

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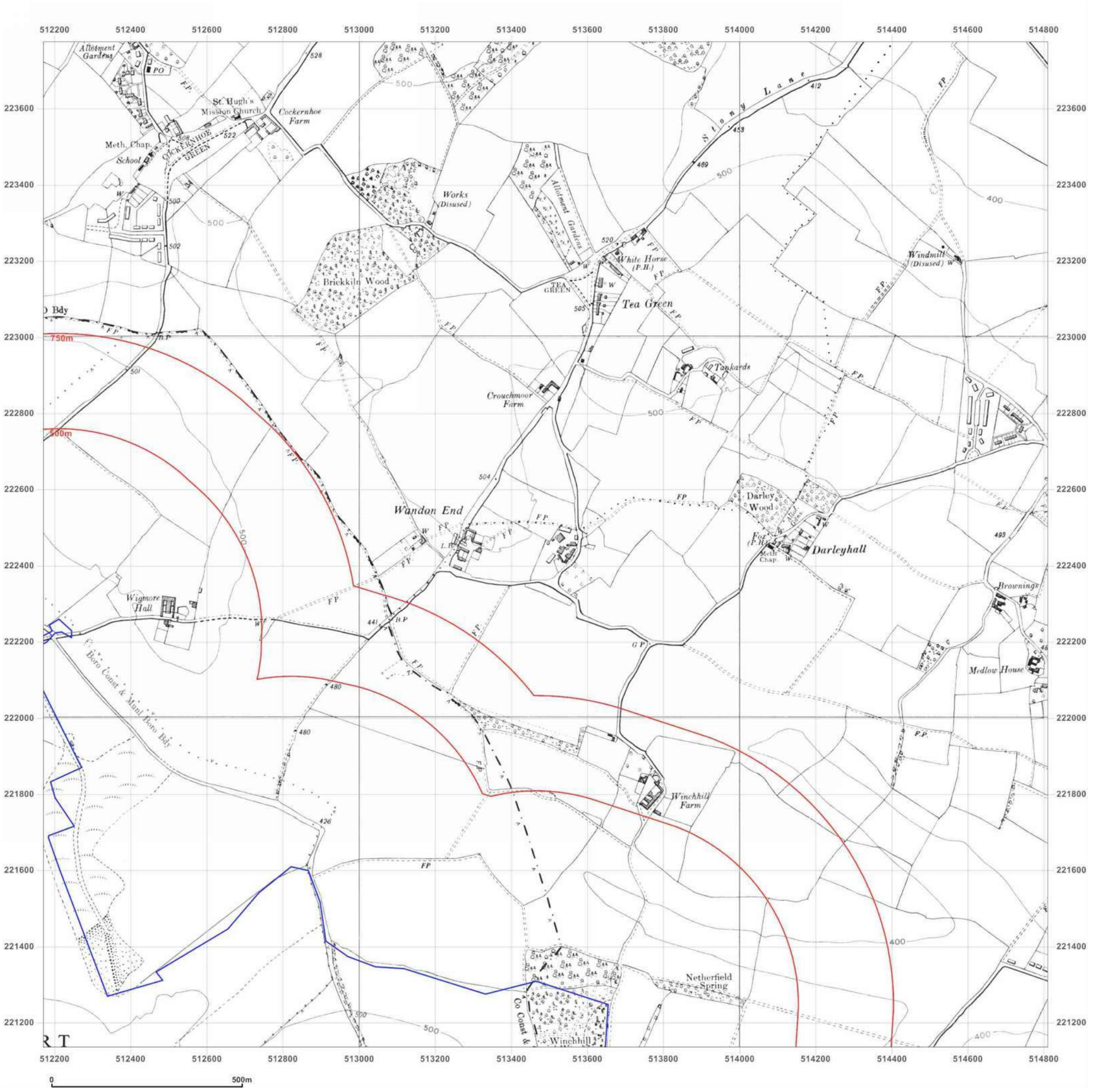

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: Provisional

Map date: **1960**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

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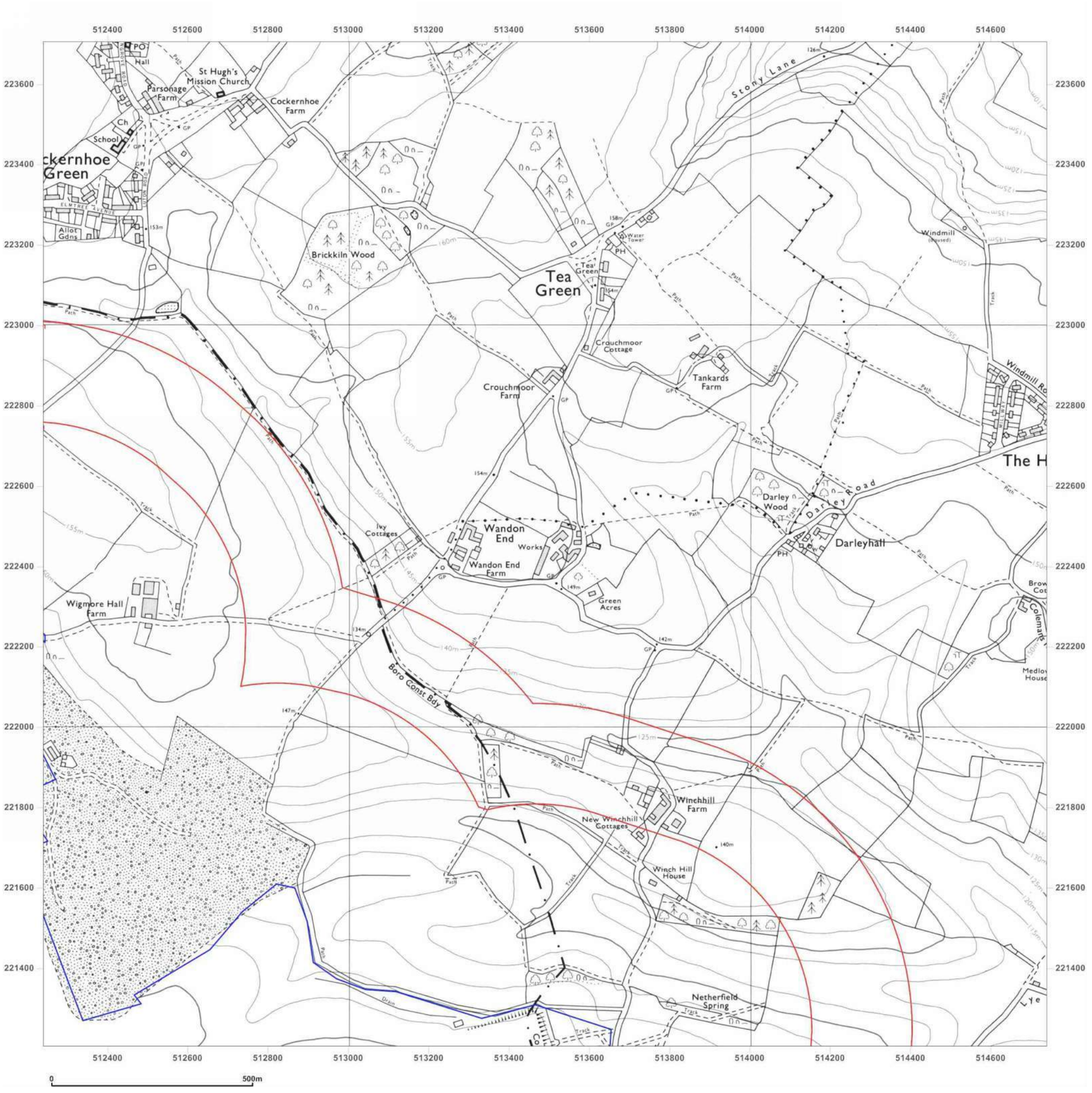

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: National Grid

Map date: **1975**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1973
Revised 1975
Edition N/A
Copyright 1975
Levelled 1973

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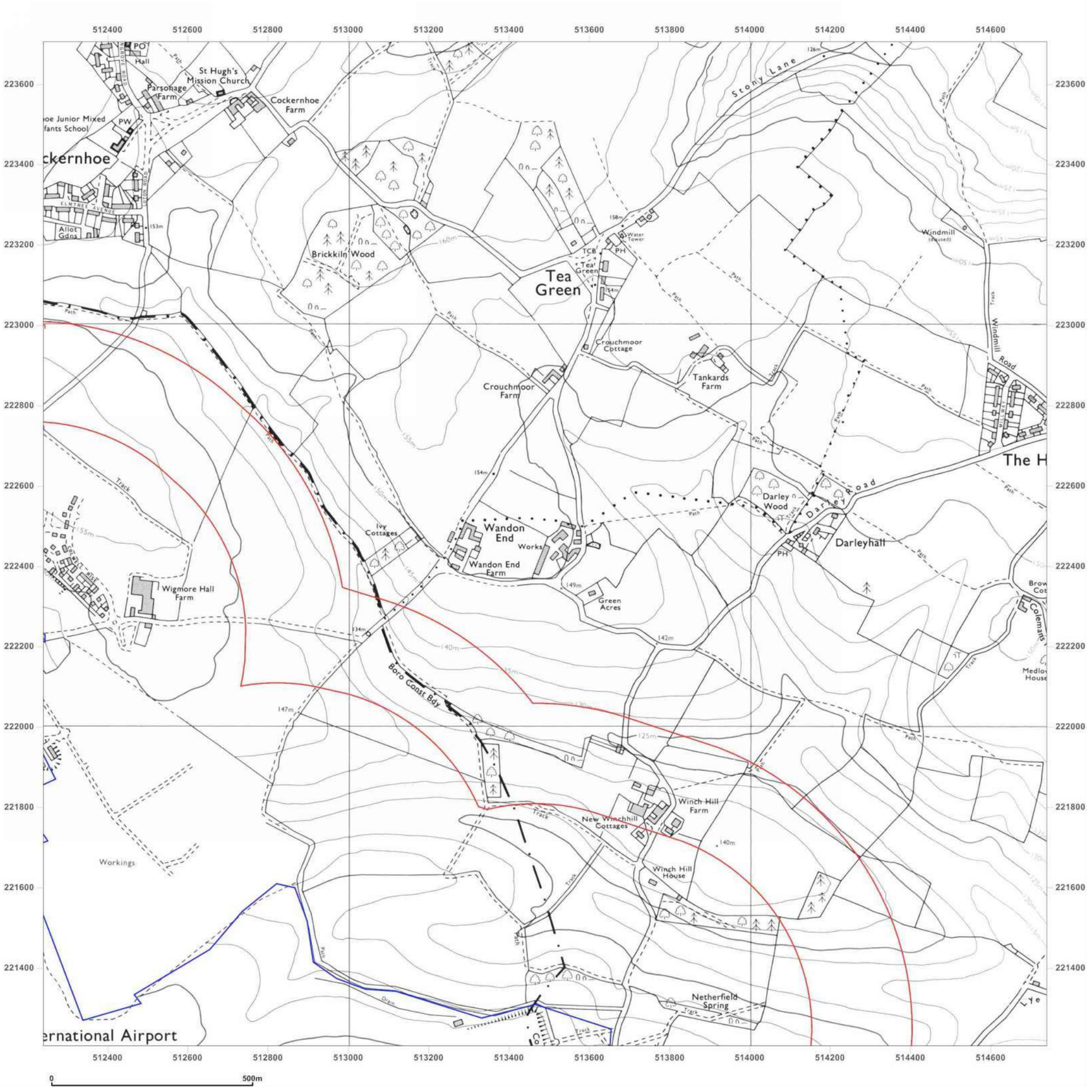

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: National Grid

Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

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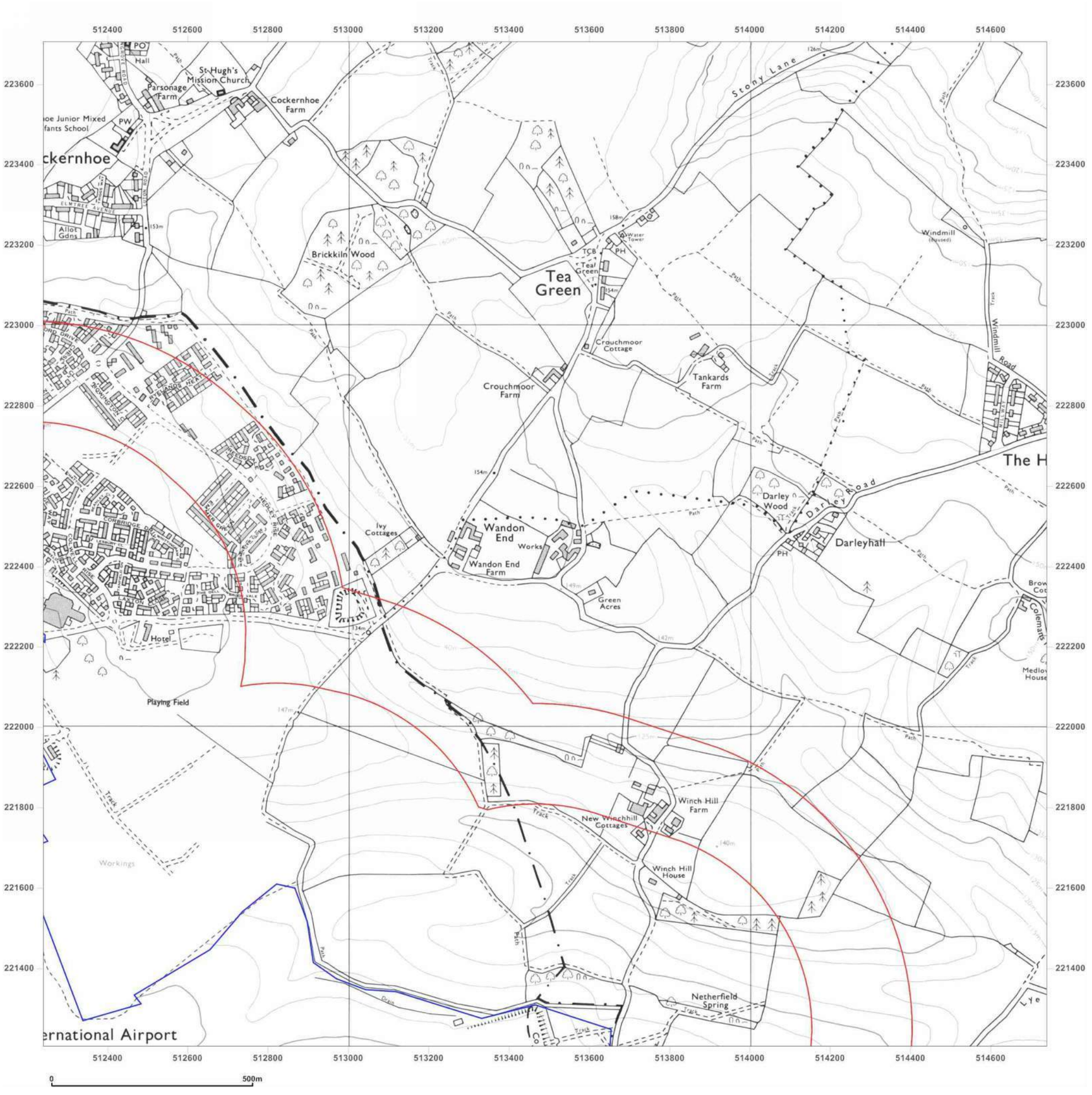

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: National Grid

Map date: **1991**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

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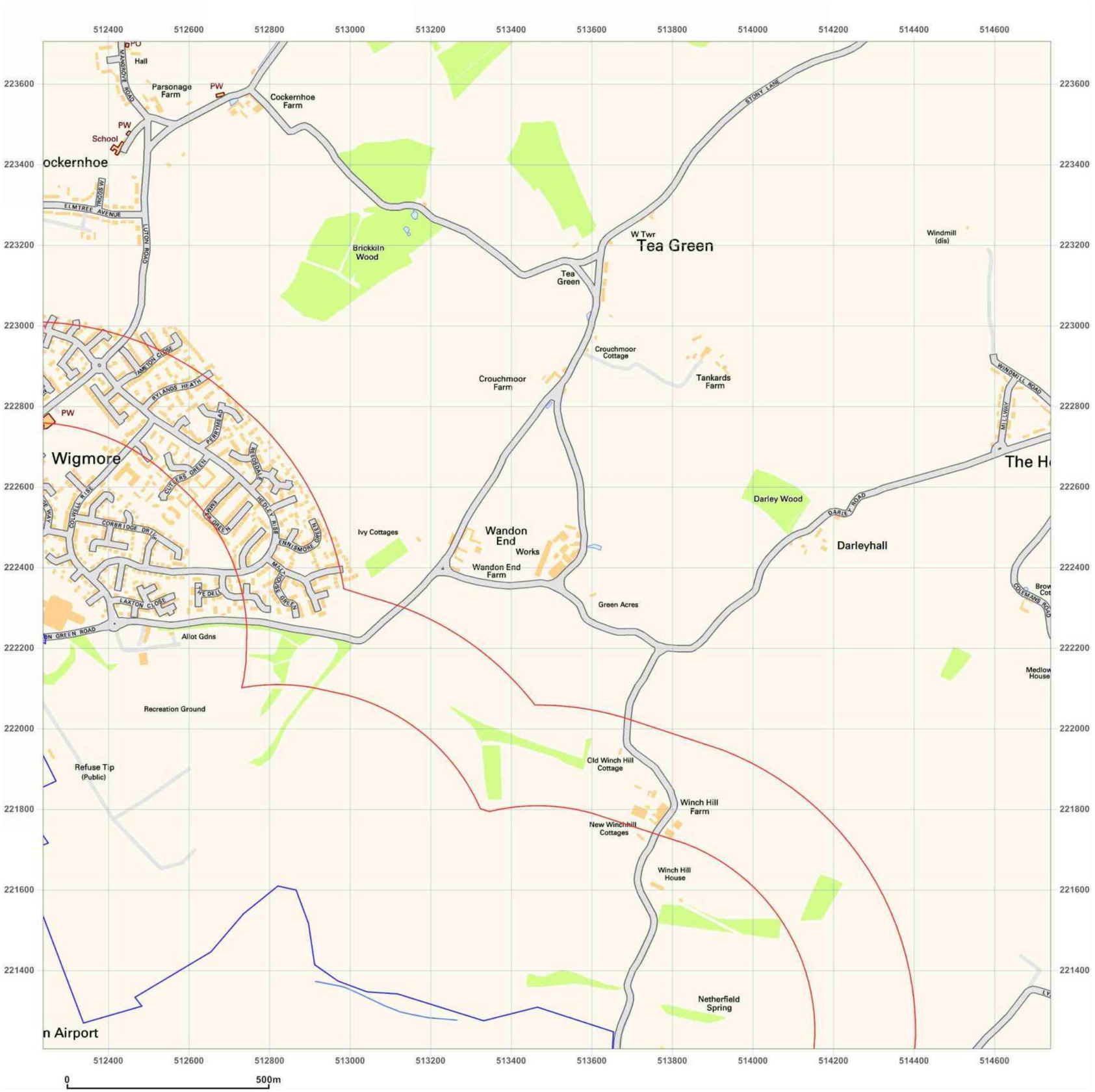

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: National Grid
Map date: **2001**
Scale: 1:10,000
Printed at: 1:10,000

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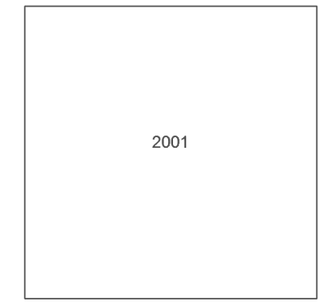

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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

N
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2010

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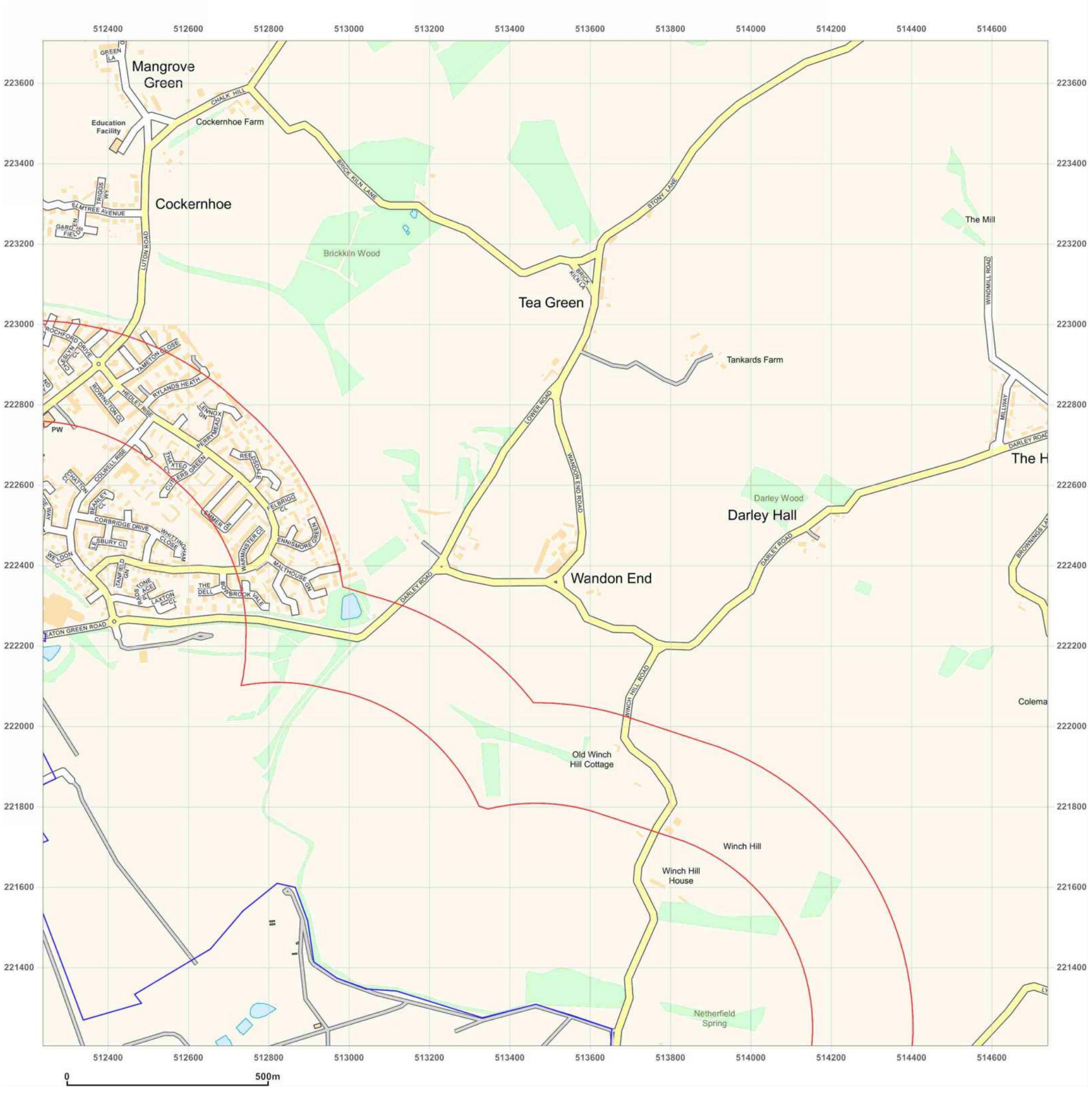

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_SS_2_2
Grid Ref: 513489, 222455

Map Name: National Grid
Map date: **2020**
Scale: 1:10,000
Printed at: 1:10,000

N
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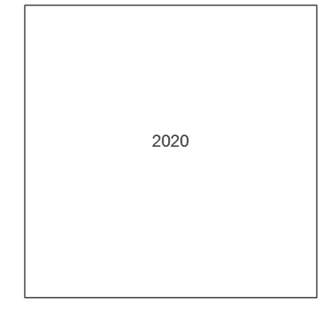

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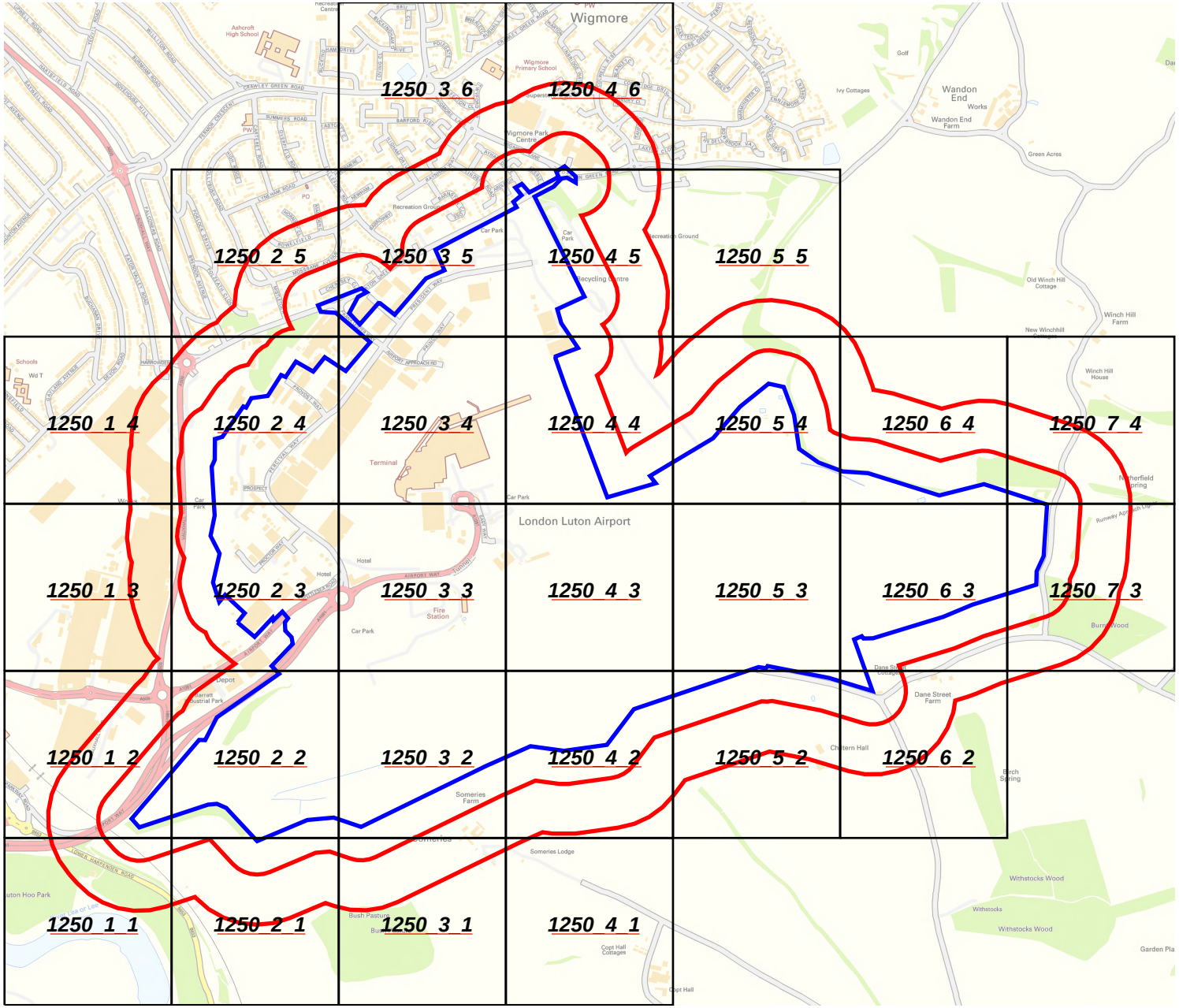

Groundsure INSIGHTS

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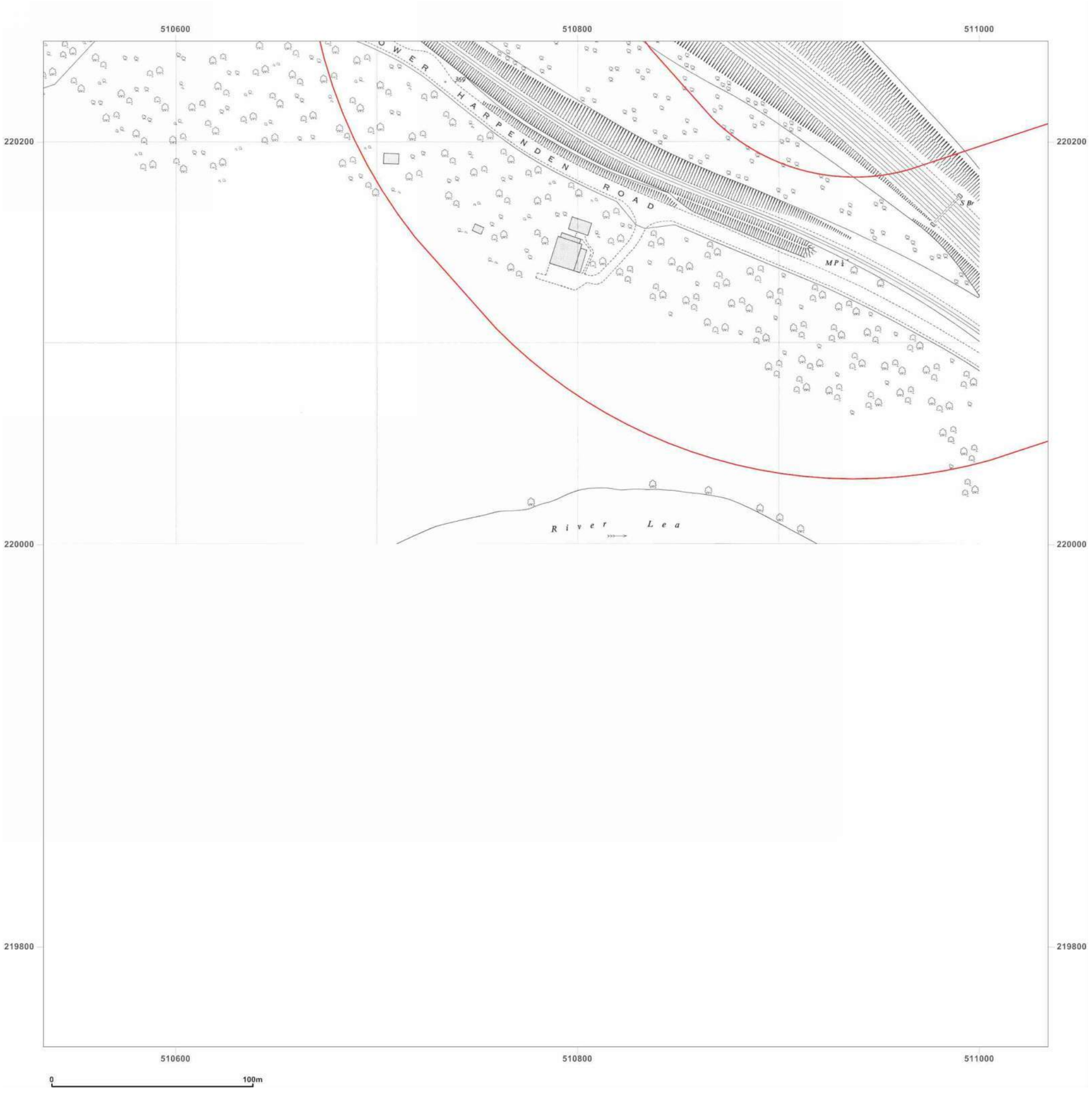
1:1250 Scale Grid Index



Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_1
Grid Ref: 510784, 220000

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961	Surveyed N/A
Revised 1961	Revised N/A
Edition N/A	Edition N/A
Copyright 1962	Copyright N/A
Levelled 1958	Levelled N/A

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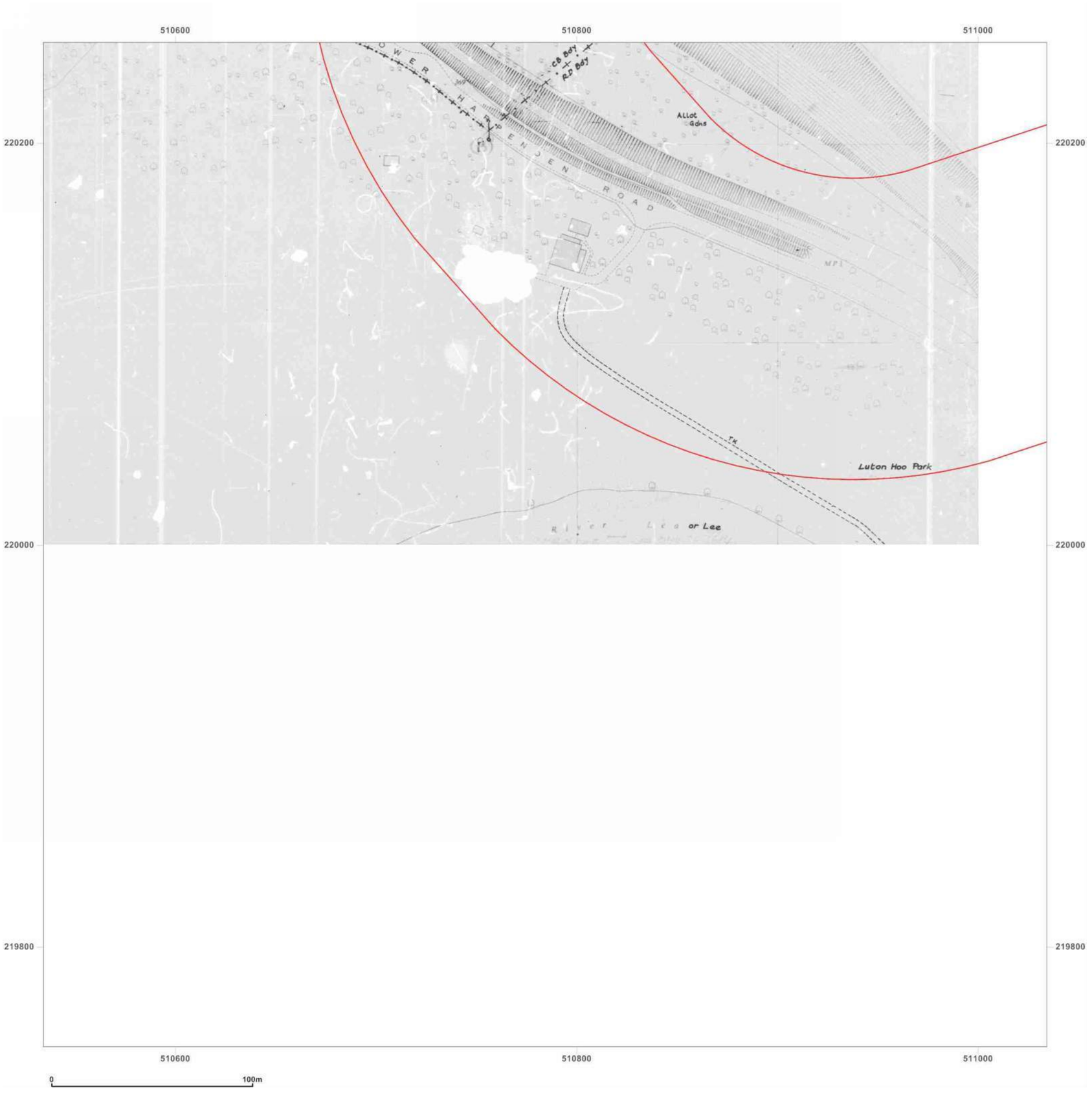

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_1
Grid Ref: 510784, 220000

Map Name: National Grid
Map date: **1973**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
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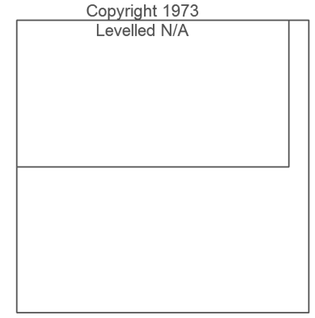
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A



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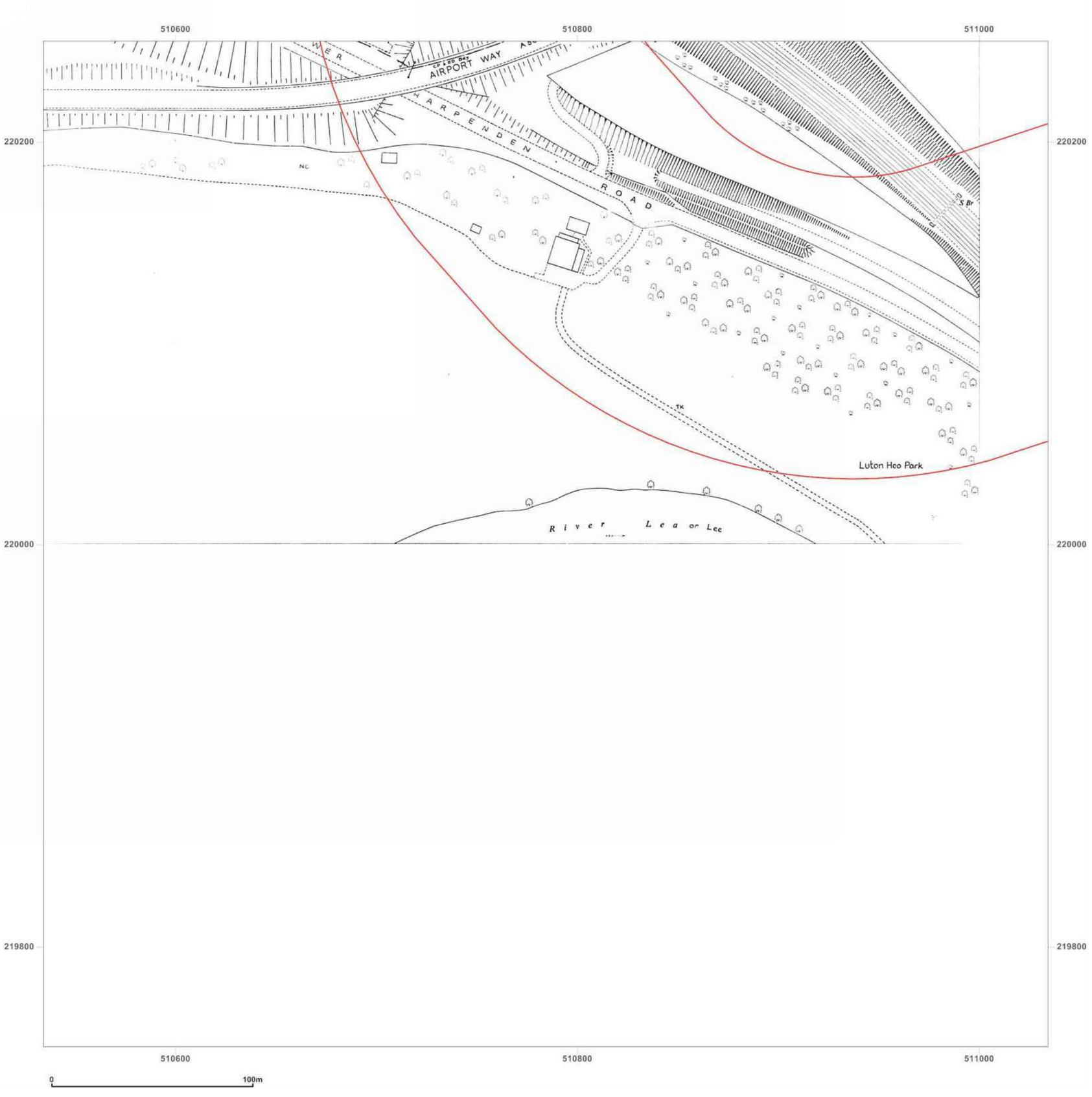

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_1
Grid Ref: 510784, 220000

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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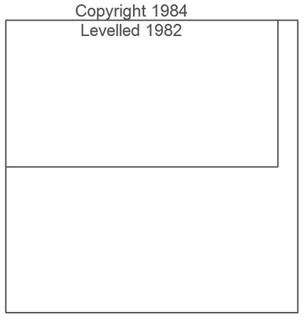
Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982



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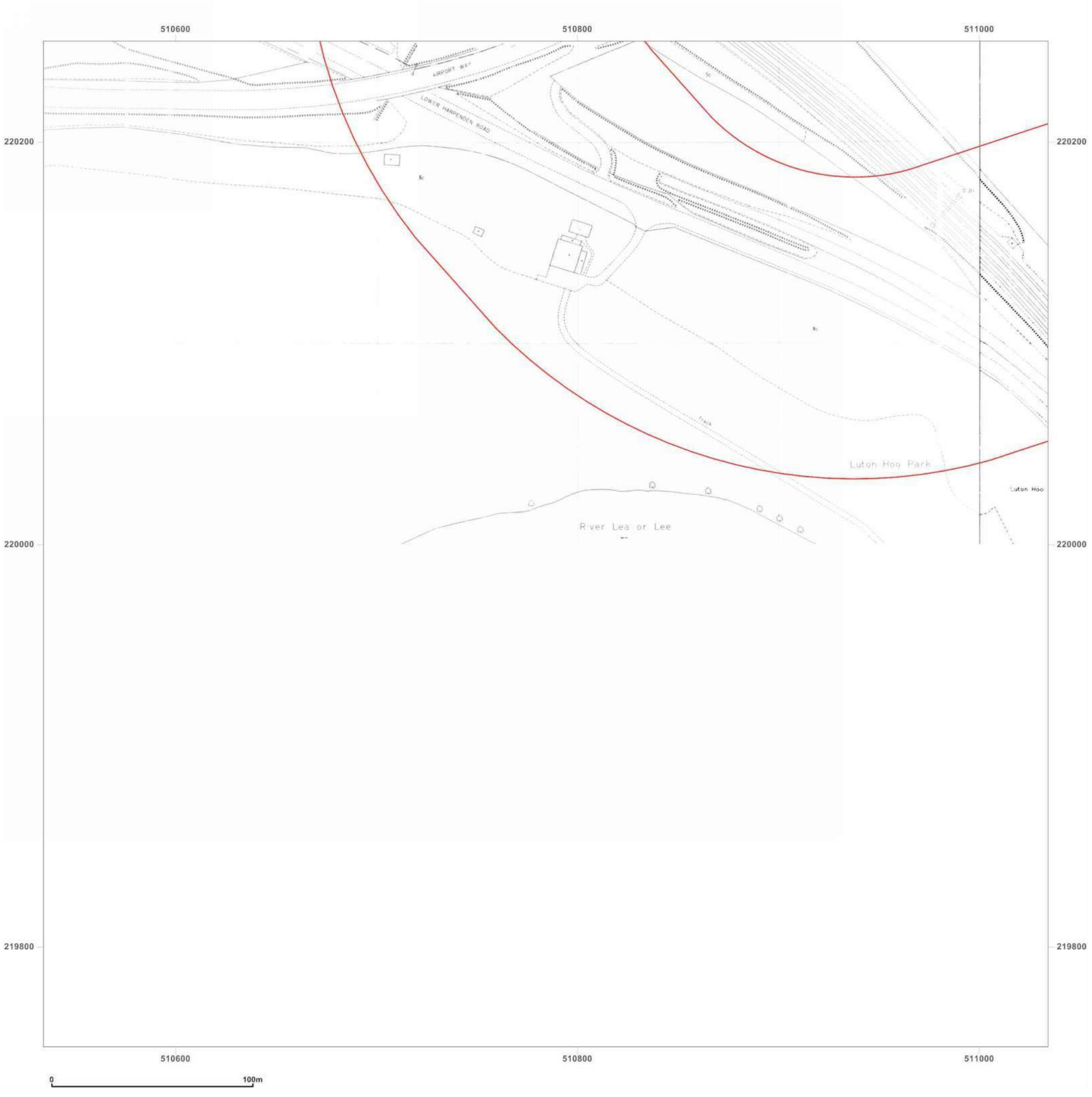


Groundsure INSIGHTS

Site Details:

Luton Airport

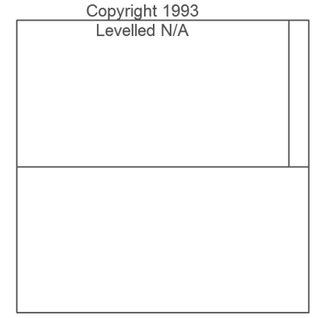
Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_1
Grid Ref: 510784, 220000

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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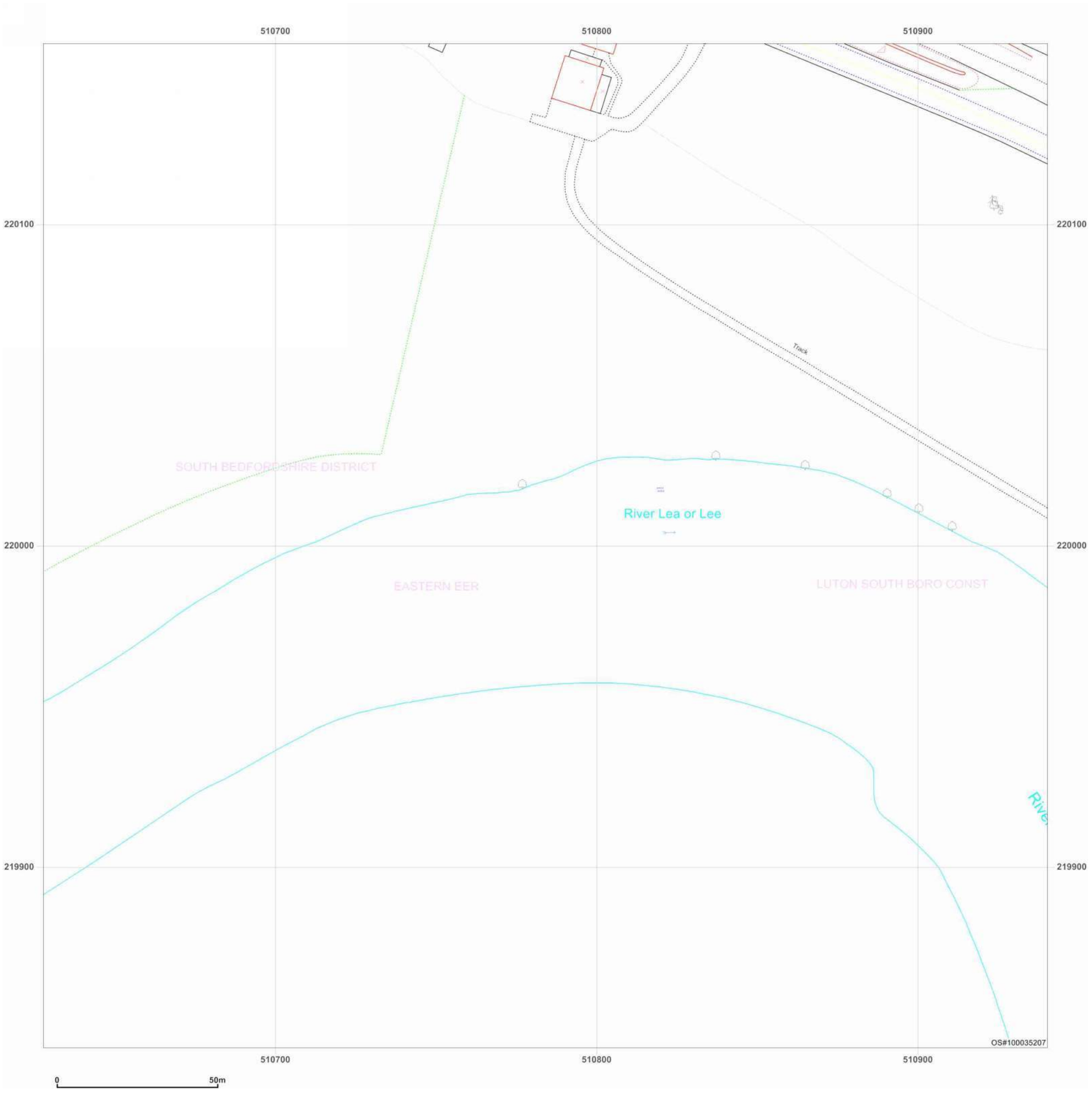

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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_1
Grid Ref: 510784, 220000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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W E
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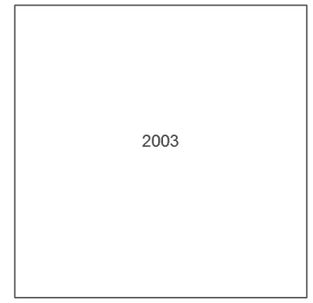

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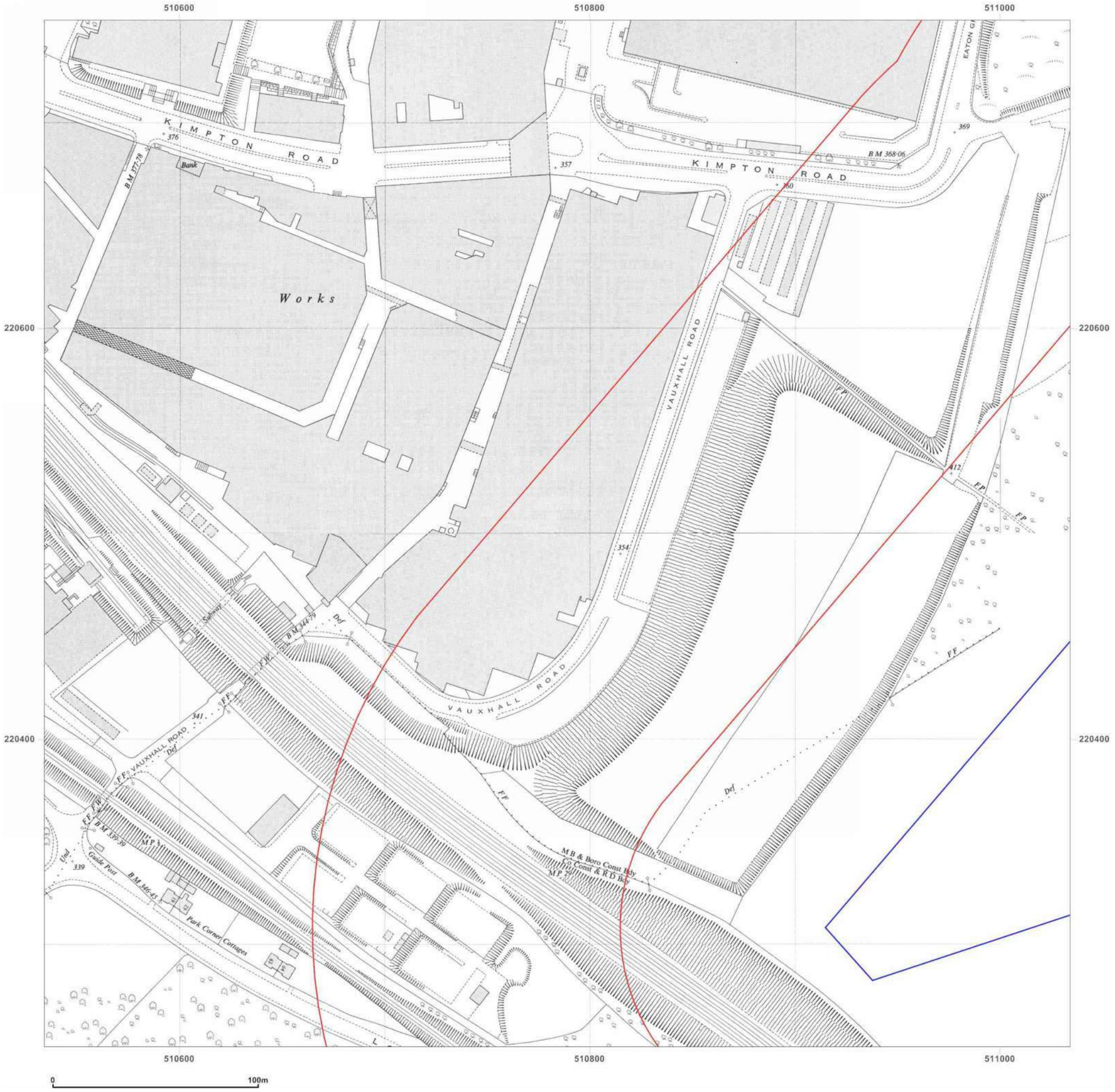

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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_2
Grid Ref: 510784, 220500

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1958	Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1958
Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1958	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A

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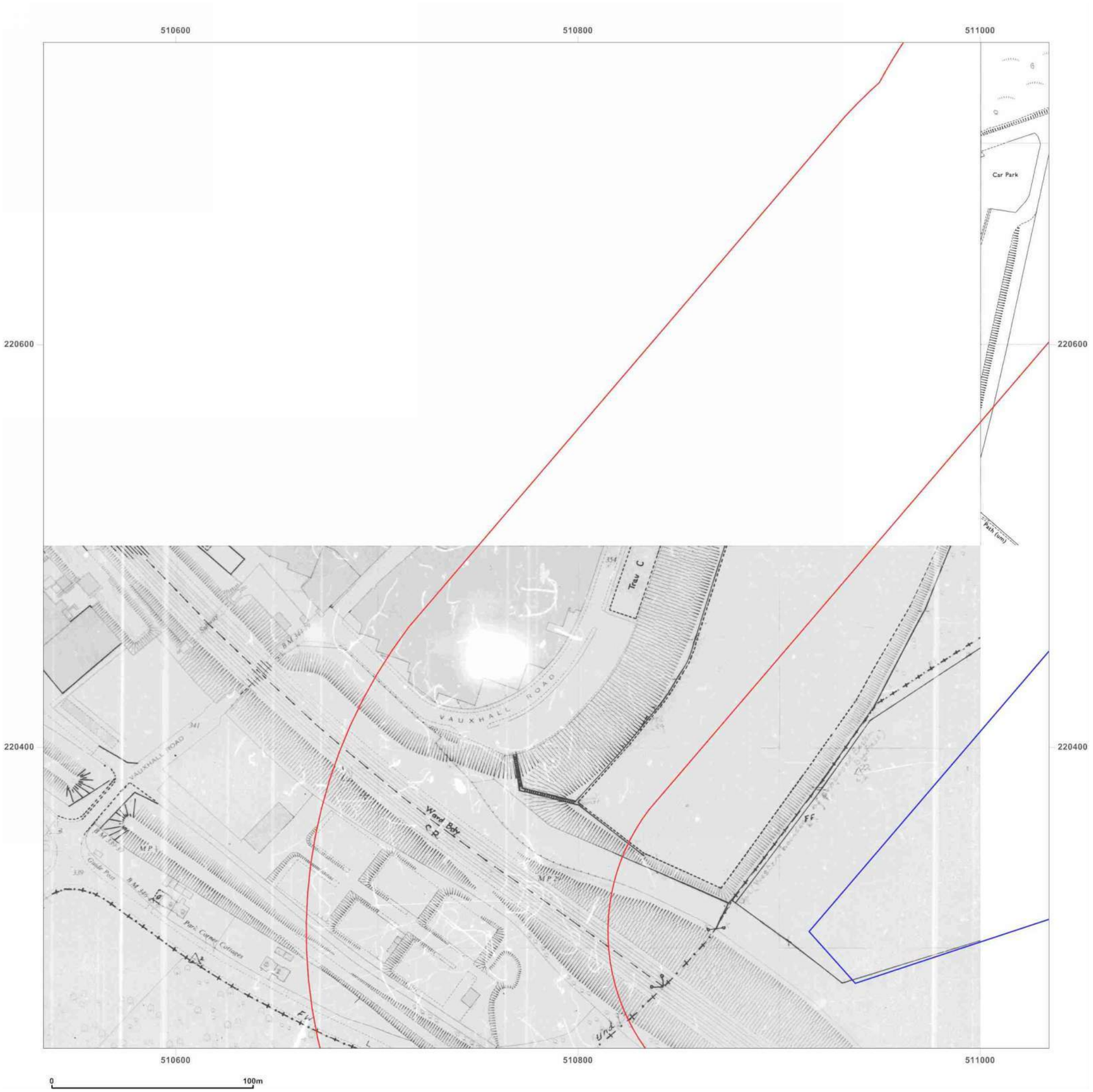

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_2
Grid Ref: 510784, 220500

Map Name: National Grid

Map date: **1973-1974**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1973
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Copyright 1974
Levelled 1958

Surveyed N/A
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Edition N/A
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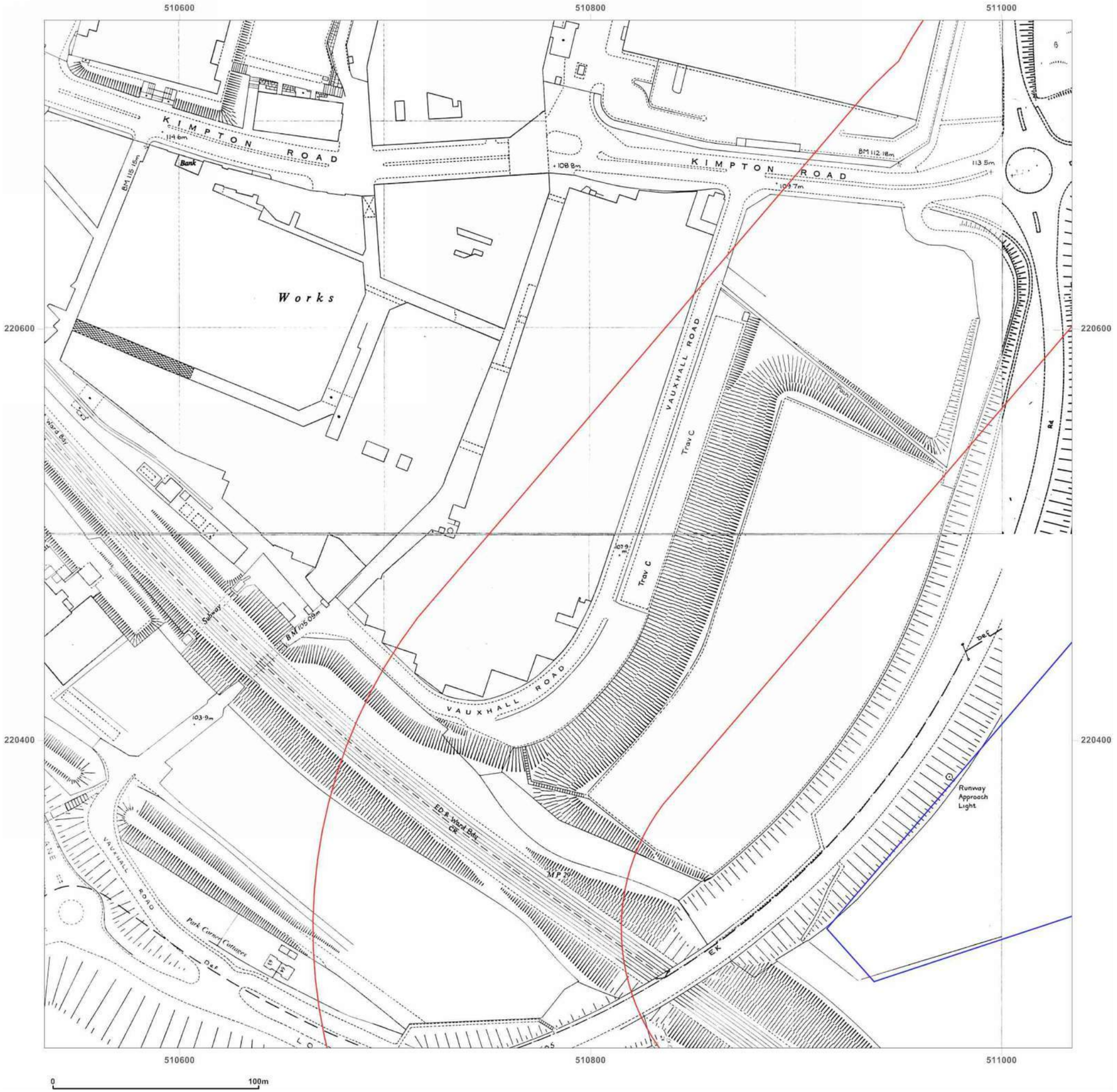

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_2
Grid Ref: 510784, 220500

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982

Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982

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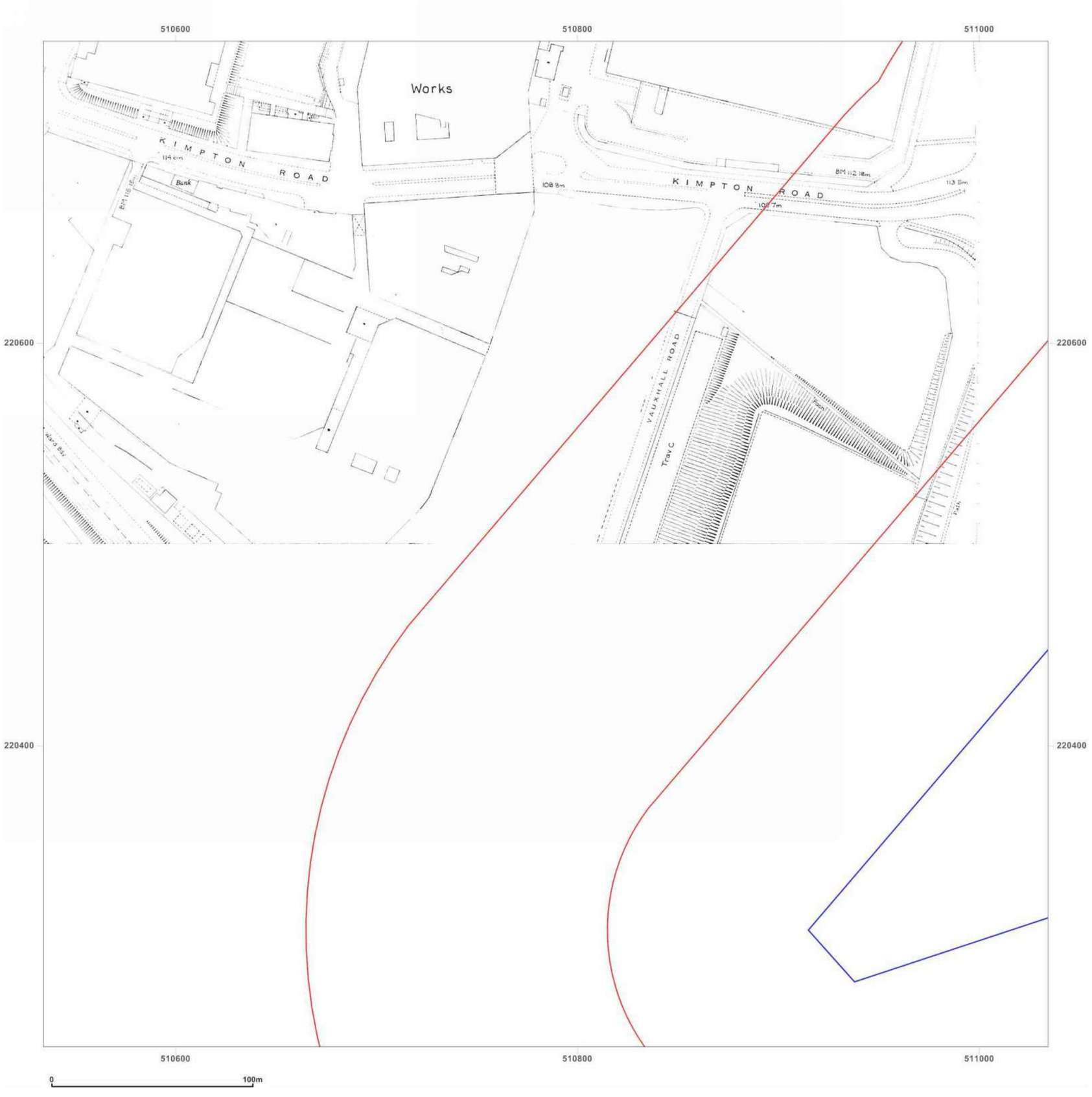

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_2
Grid Ref: 510784, 220500

Map Name: National Grid

Map date: **1986**

Scale: 1:1,250

Printed at: 1:2,000

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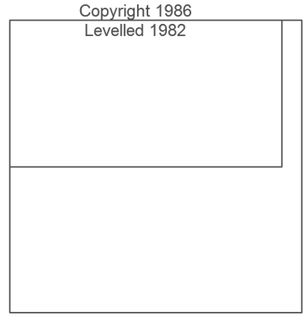
Surveyed 1982
Revised 1986
Edition N/A
Copyright 1986
Levelled 1982



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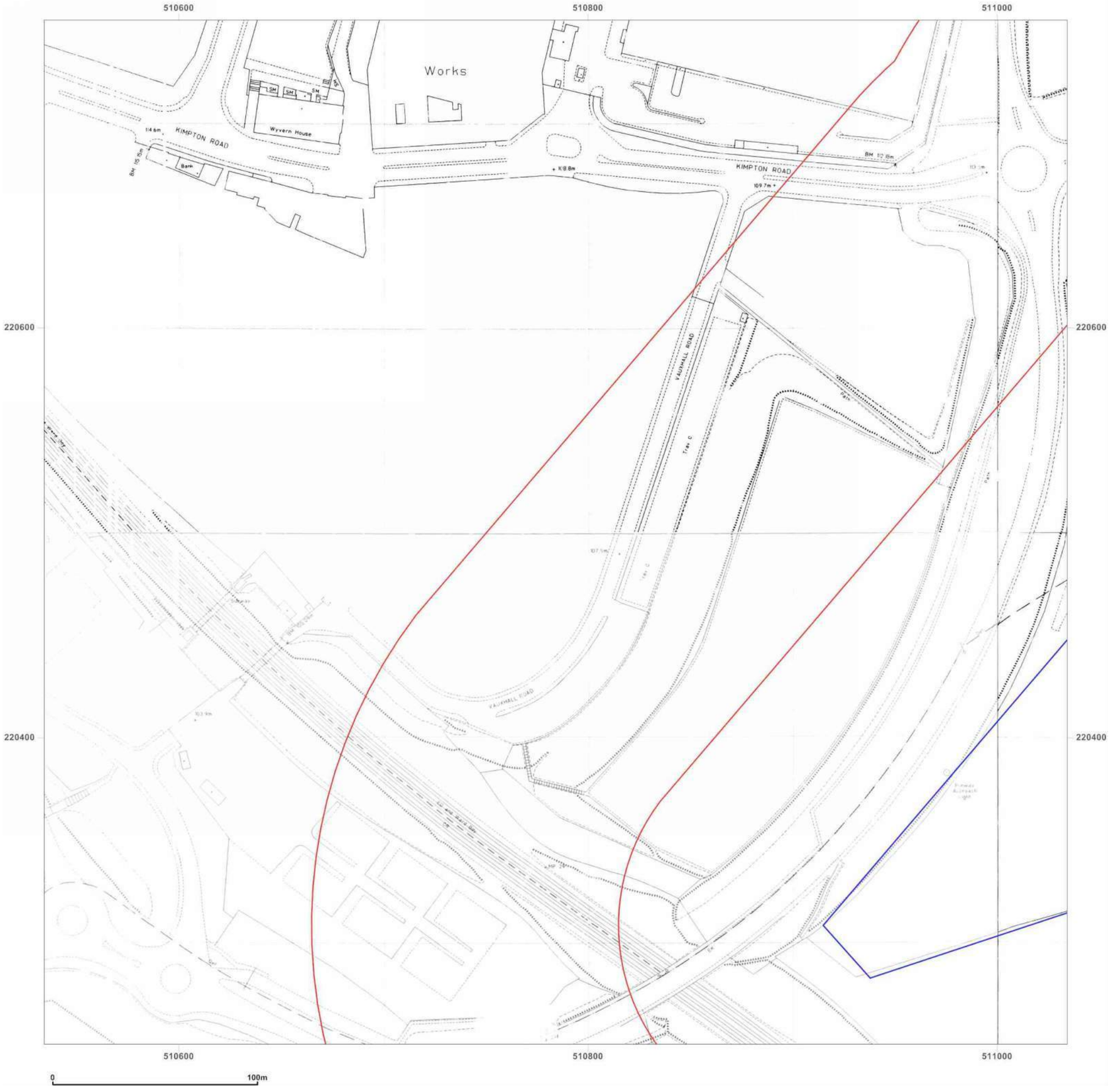

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_2
Grid Ref: 510784, 220500

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_2
Grid Ref: 510784, 220500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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2003

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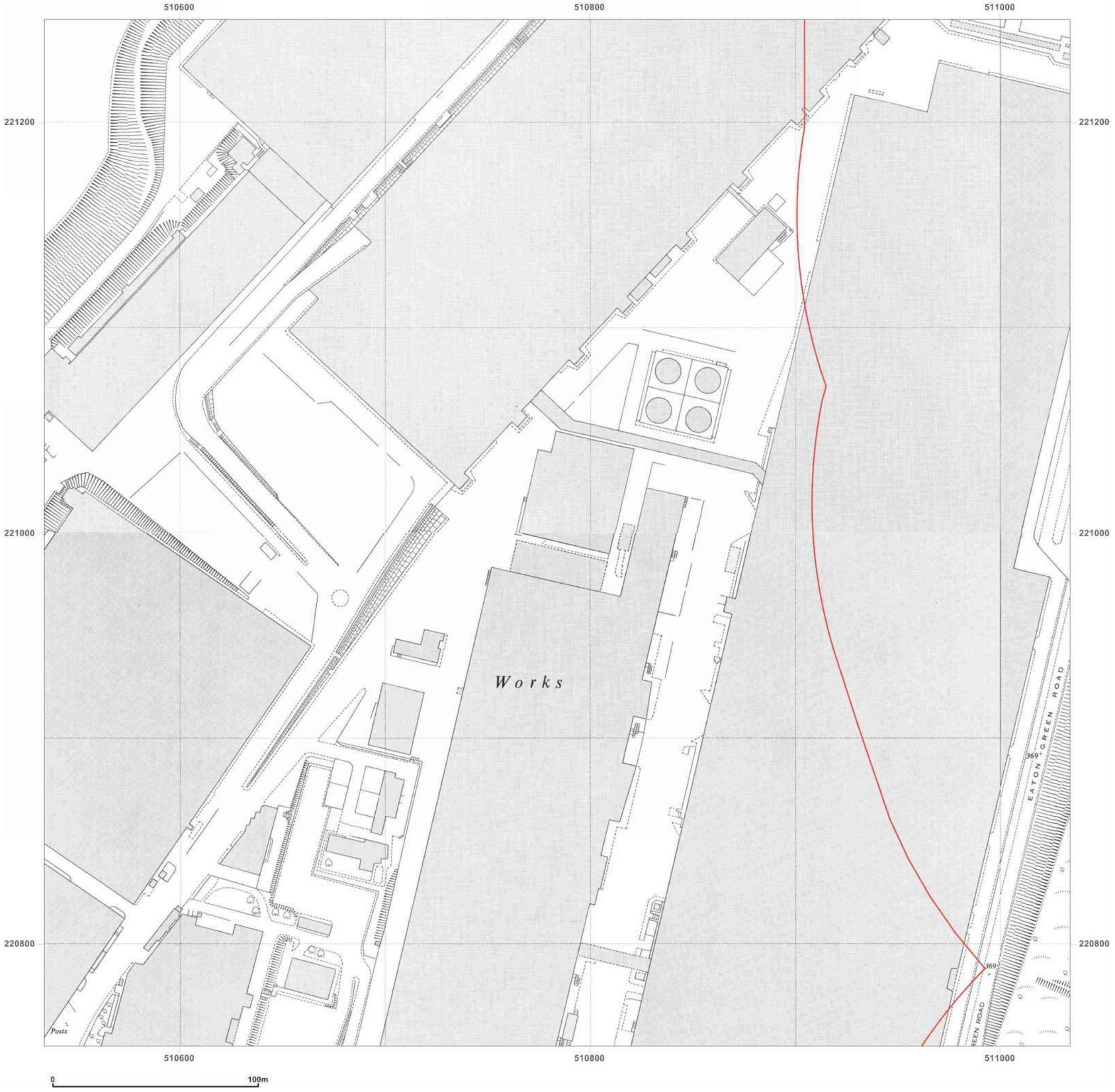

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_3
Grid Ref: 510784, 221000

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
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Revised 1961
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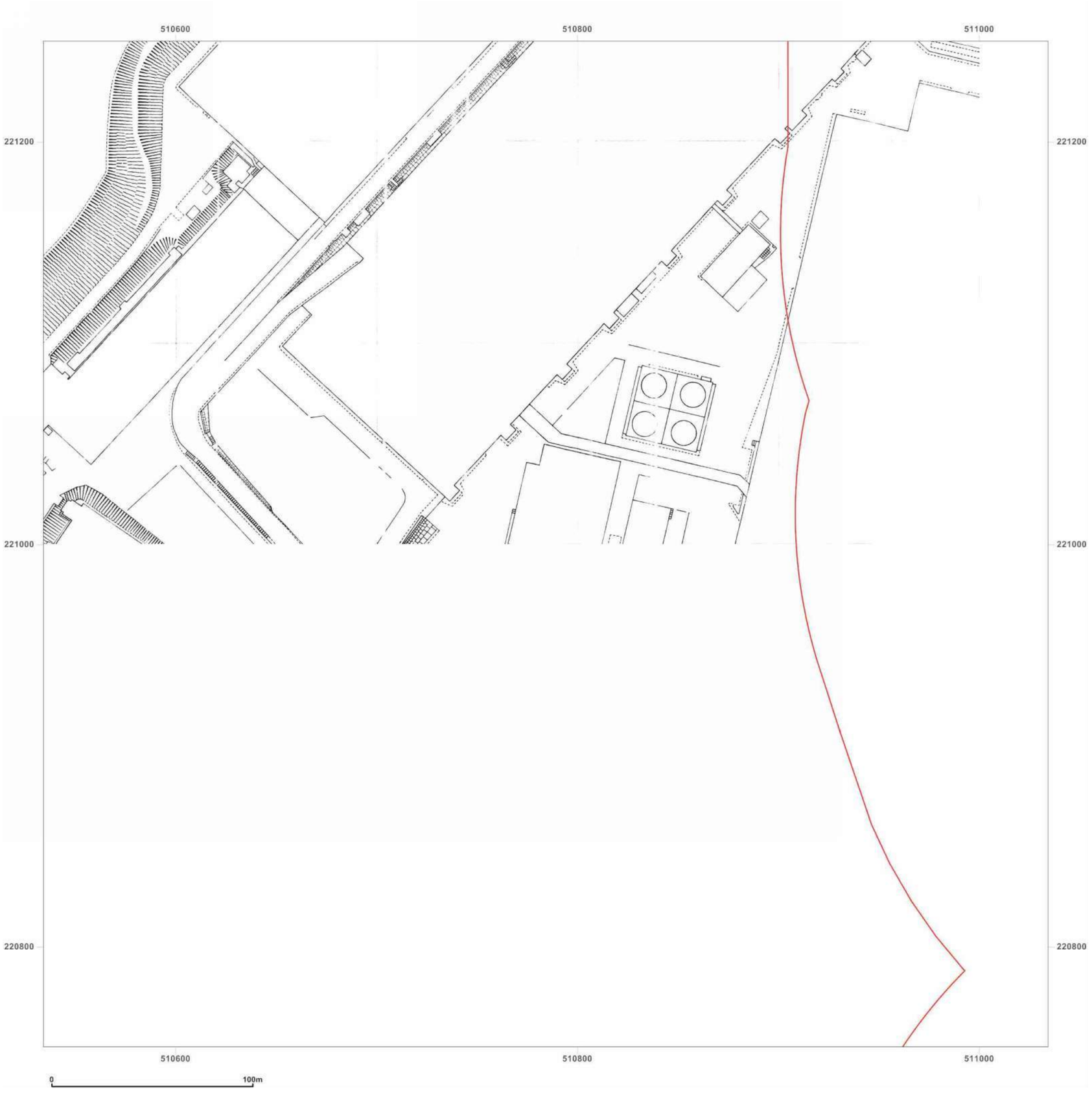

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_3
Grid Ref: 510784, 221000

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

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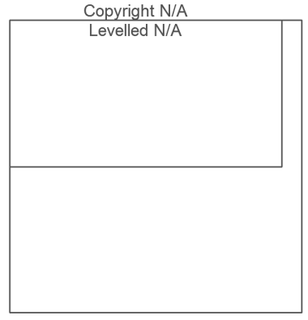
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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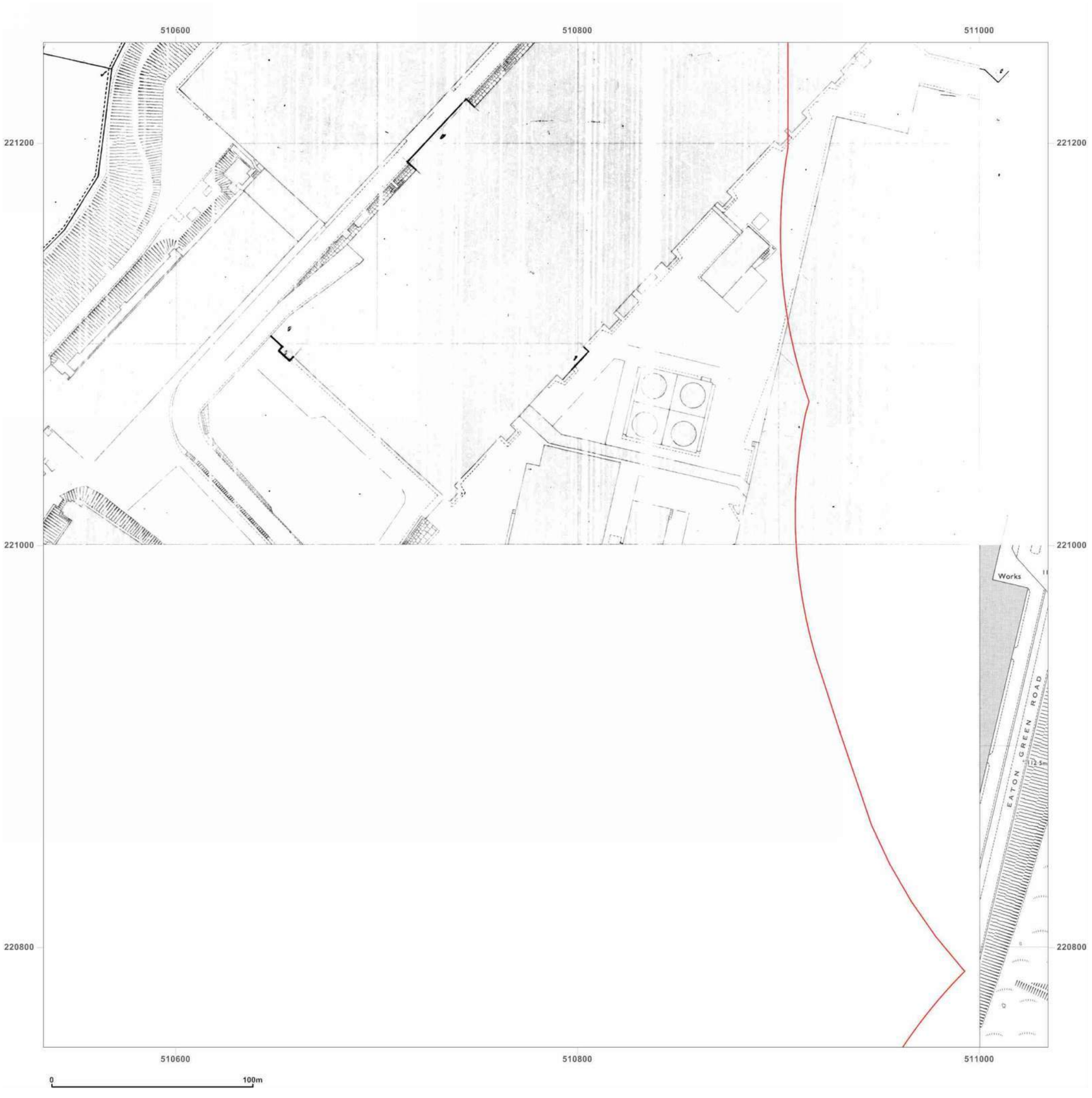

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_3
Grid Ref: 510784, 221000

Map Name: National Grid

Map date: **1973-1974**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

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

Surveyed 1961
Revised 1973
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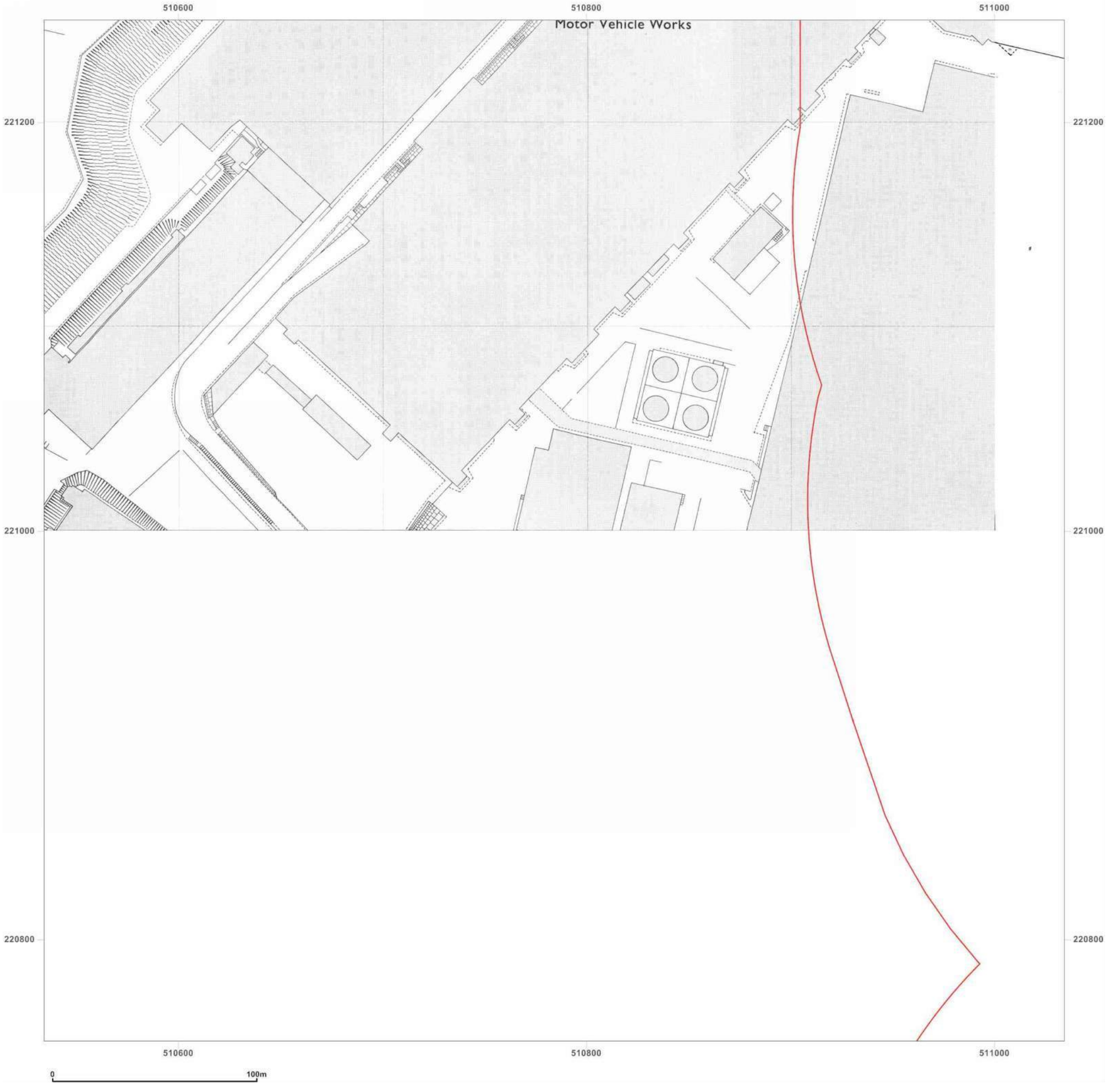

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_3
Grid Ref: 510784, 221000

Map Name: National Grid

Map date: **1975**

Scale: 1:1,250

Printed at: 1:2,000

N
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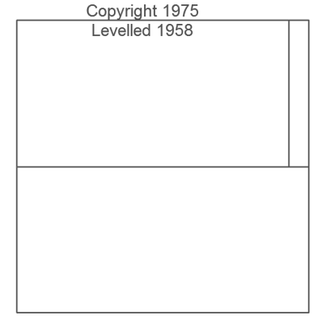
Surveyed 1961
Revised 1974
Edition N/A
Copyright 1975
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A



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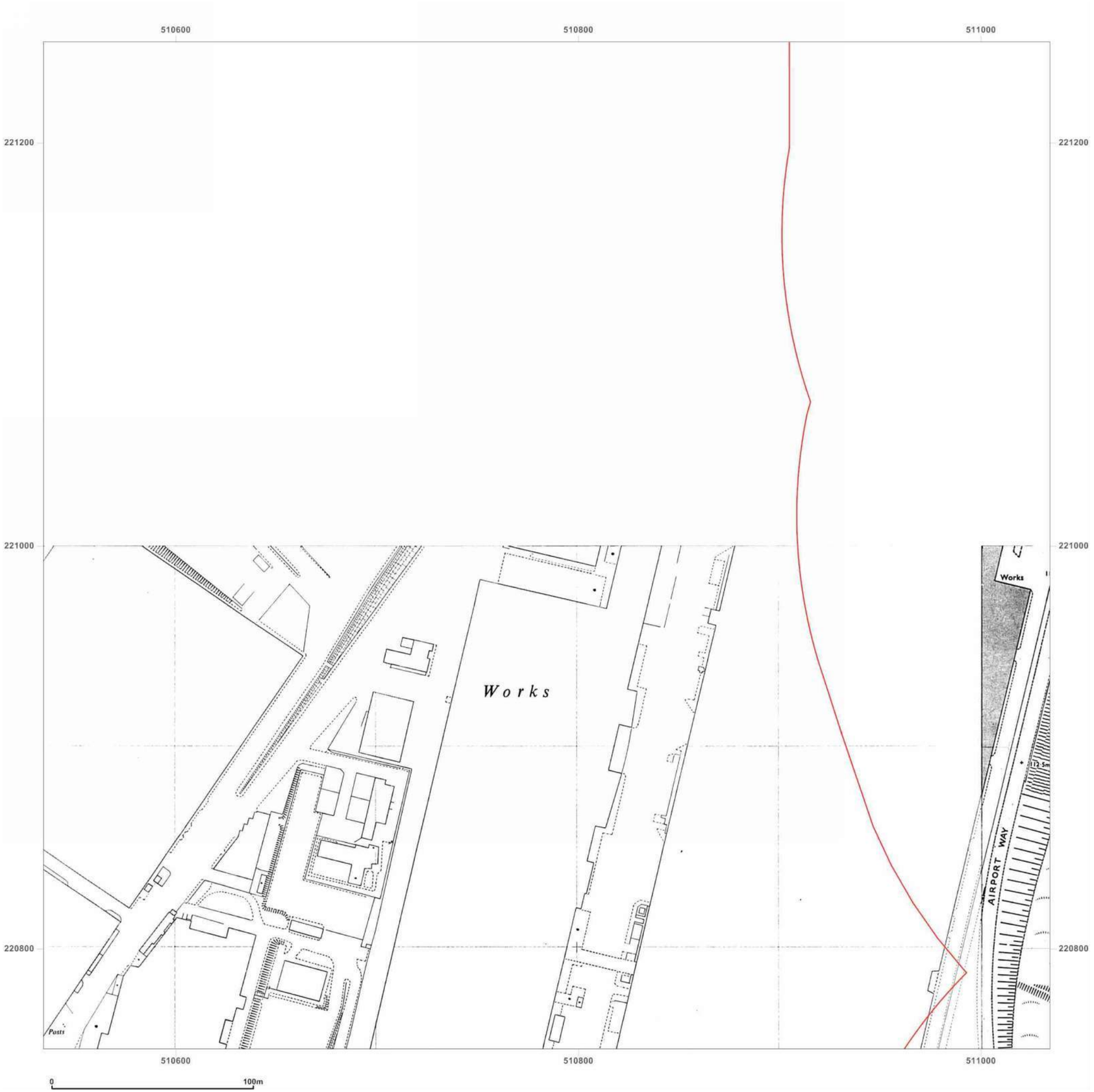

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_3
Grid Ref: 510784, 221000

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

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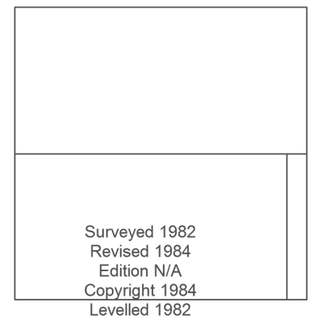

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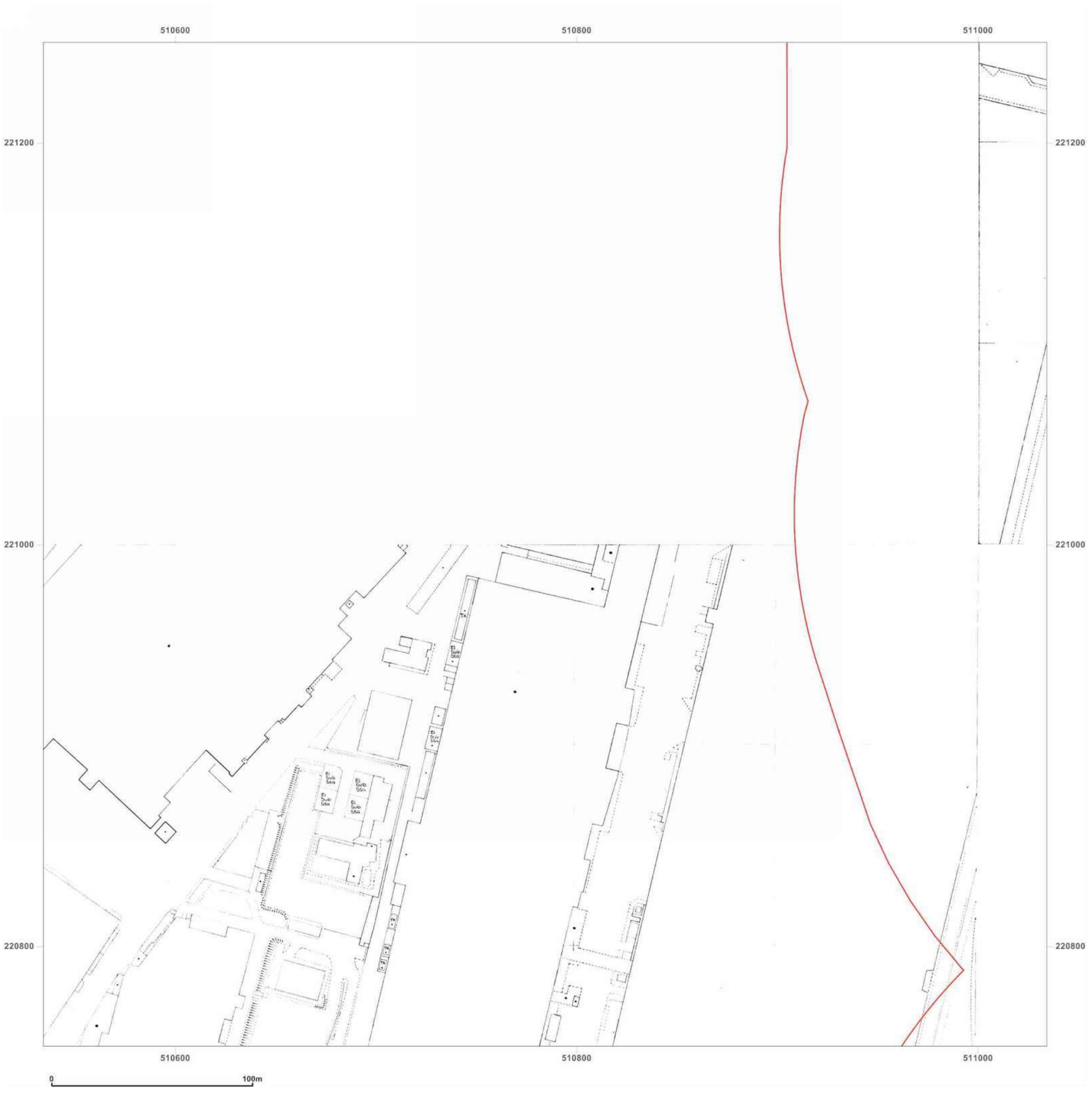

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_3
Grid Ref: 510784, 221000

Map Name: National Grid

Map date: **1986-1991**

Scale: 1:1,250

Printed at: 1:2,000

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

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_3
Grid Ref: 510784, 221000

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

N
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_3
Grid Ref: 510784, 221000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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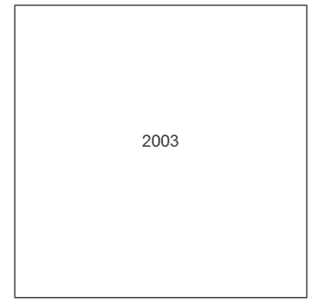

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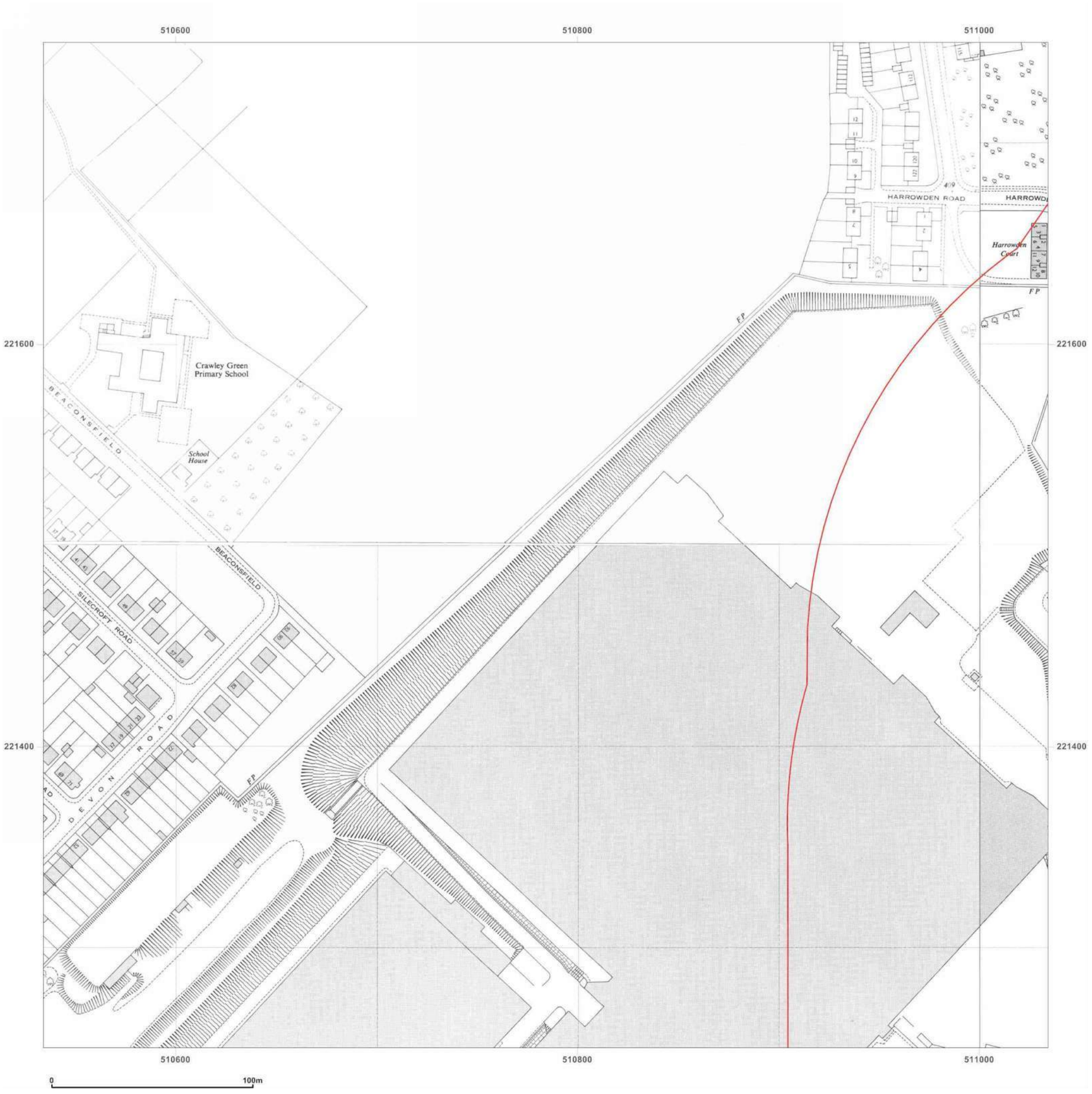

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_4
Grid Ref: 510784, 221500

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised N/A
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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Revised 1961
Edition N/A
Copyright 1962
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Surveyed 1961
Revised 1961
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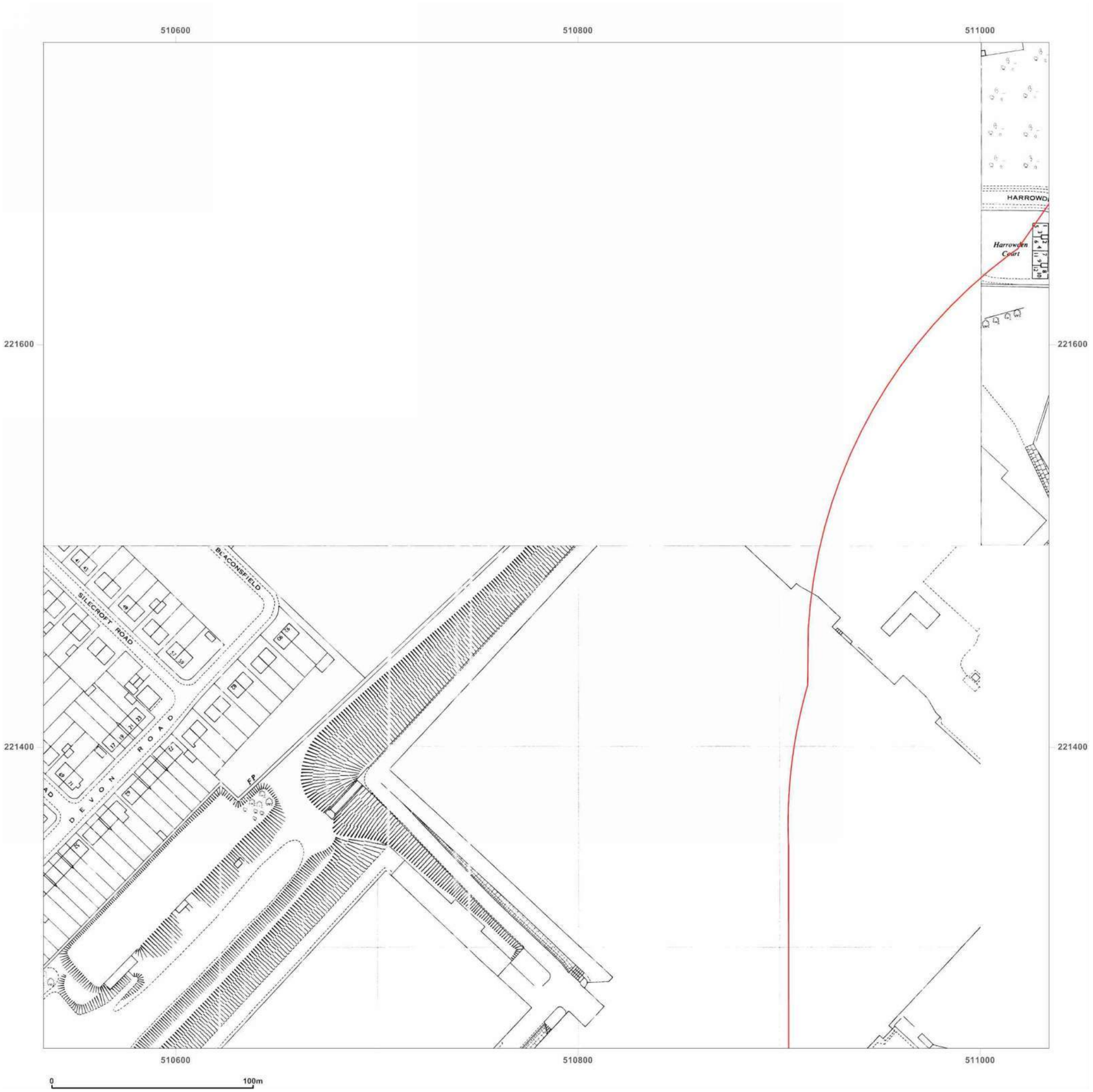

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_4
Grid Ref: 510784, 221500

Map Name: National Grid

Map date: **1962-1966**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed N/A
Revised N/A
Edition N/A
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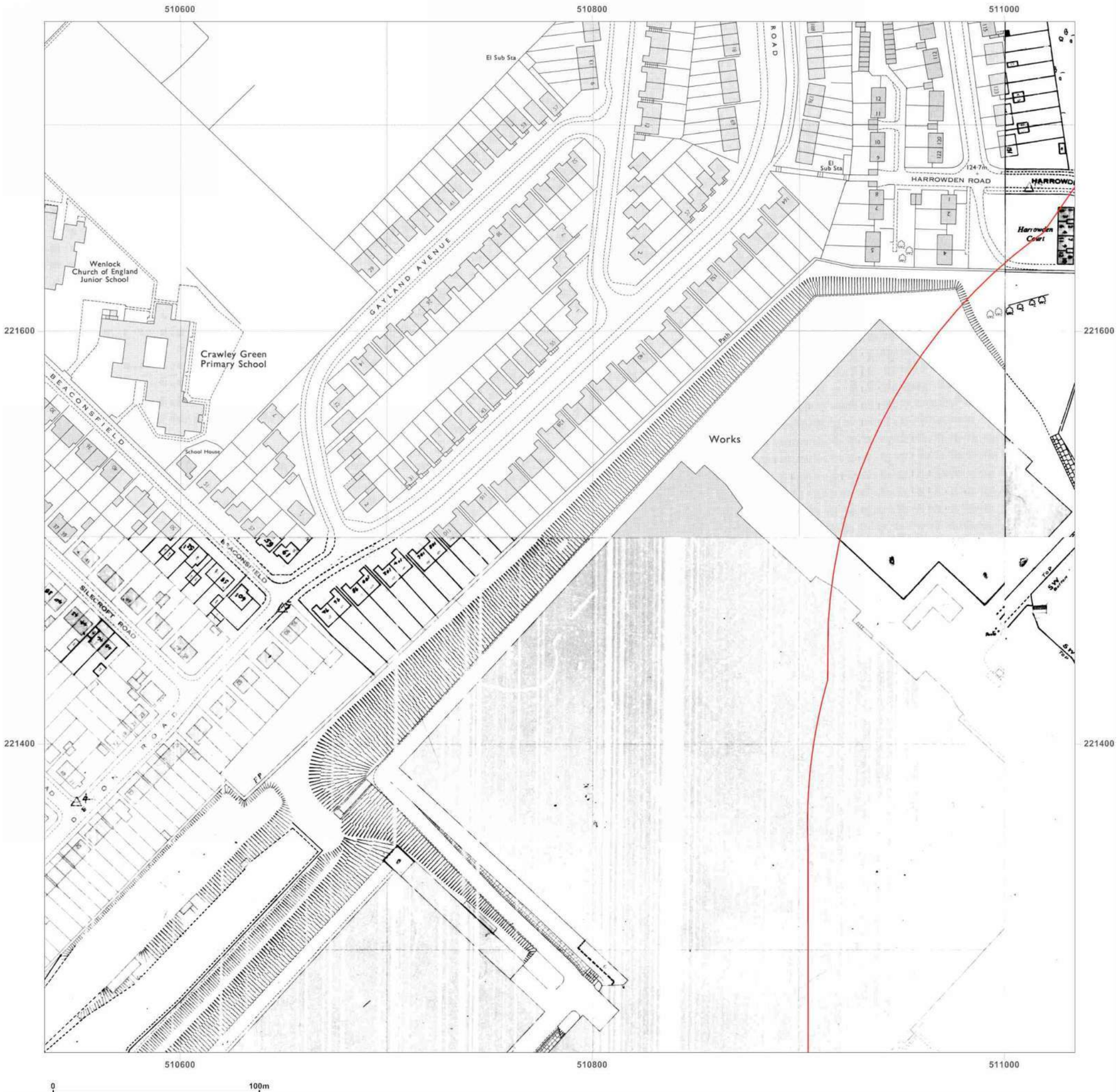

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_4
Grid Ref: 510784, 221500

Map Name: National Grid
Map date: **1973-1974**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed 1961 Revised 1973 Edition N/A Copyright 1974 Levelled 1958	Surveyed N/A Revised N/A Edition N/A Copyright 1973 Levelled N/A
Surveyed N/A Revised N/A Edition N/A Copyright 1973 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A

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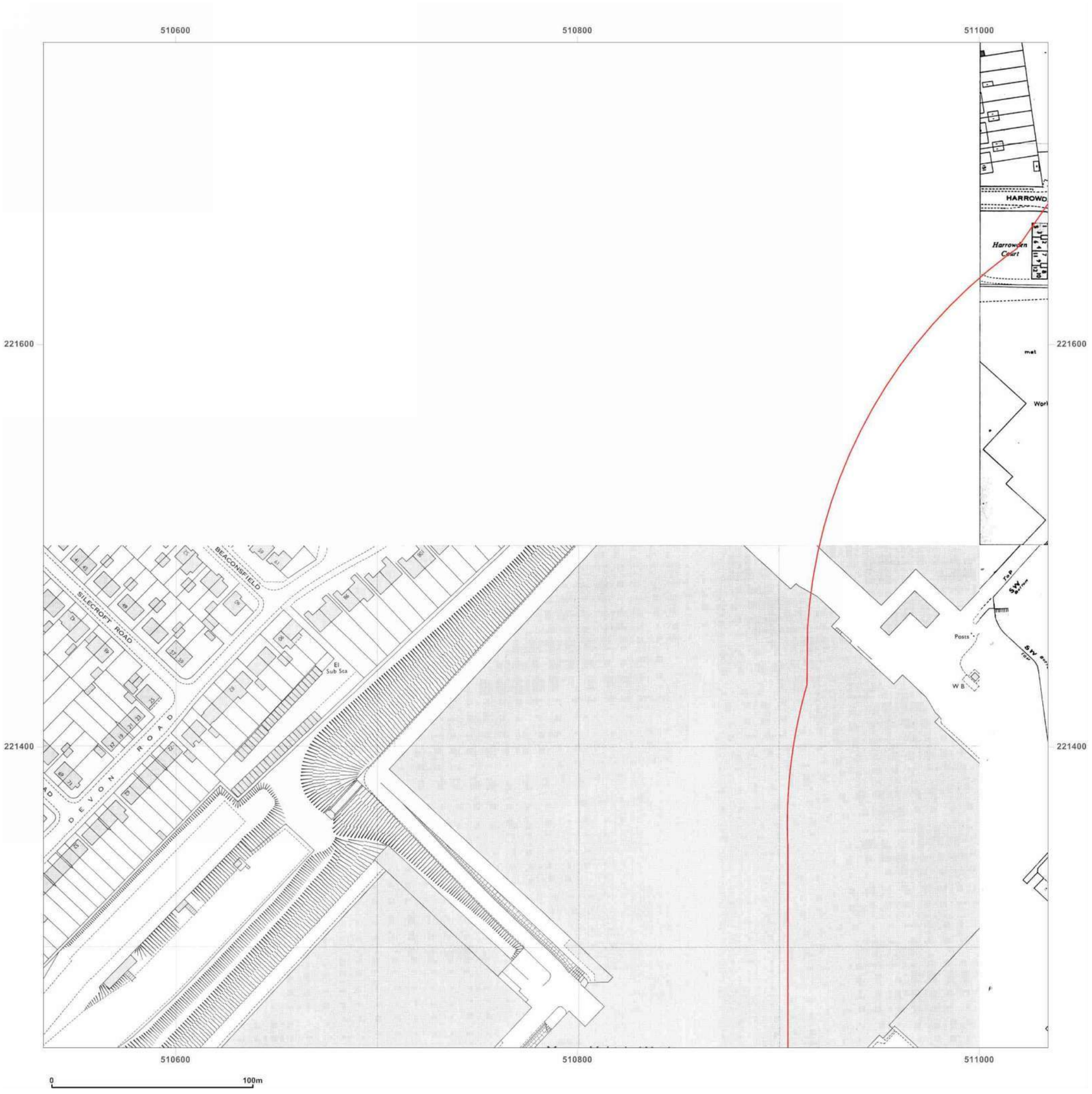

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_4
Grid Ref: 510784, 221500

Map Name: National Grid

Map date: **1975-1979**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1958
Revised 1979
Edition N/A
Copyright 1979
Levelled 1958

Surveyed 1961
Revised 1974
Edition N/A
Copyright 1975
Levelled 1958

Surveyed N/A
Revised N/A
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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_4
Grid Ref: 510784, 221500

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:1,250

Printed at: 1:2,000

N
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Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1990
Revised 1990
Edition N/A
Copyright 1990
Levelled N/A

Surveyed 1993
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Edition N/A
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Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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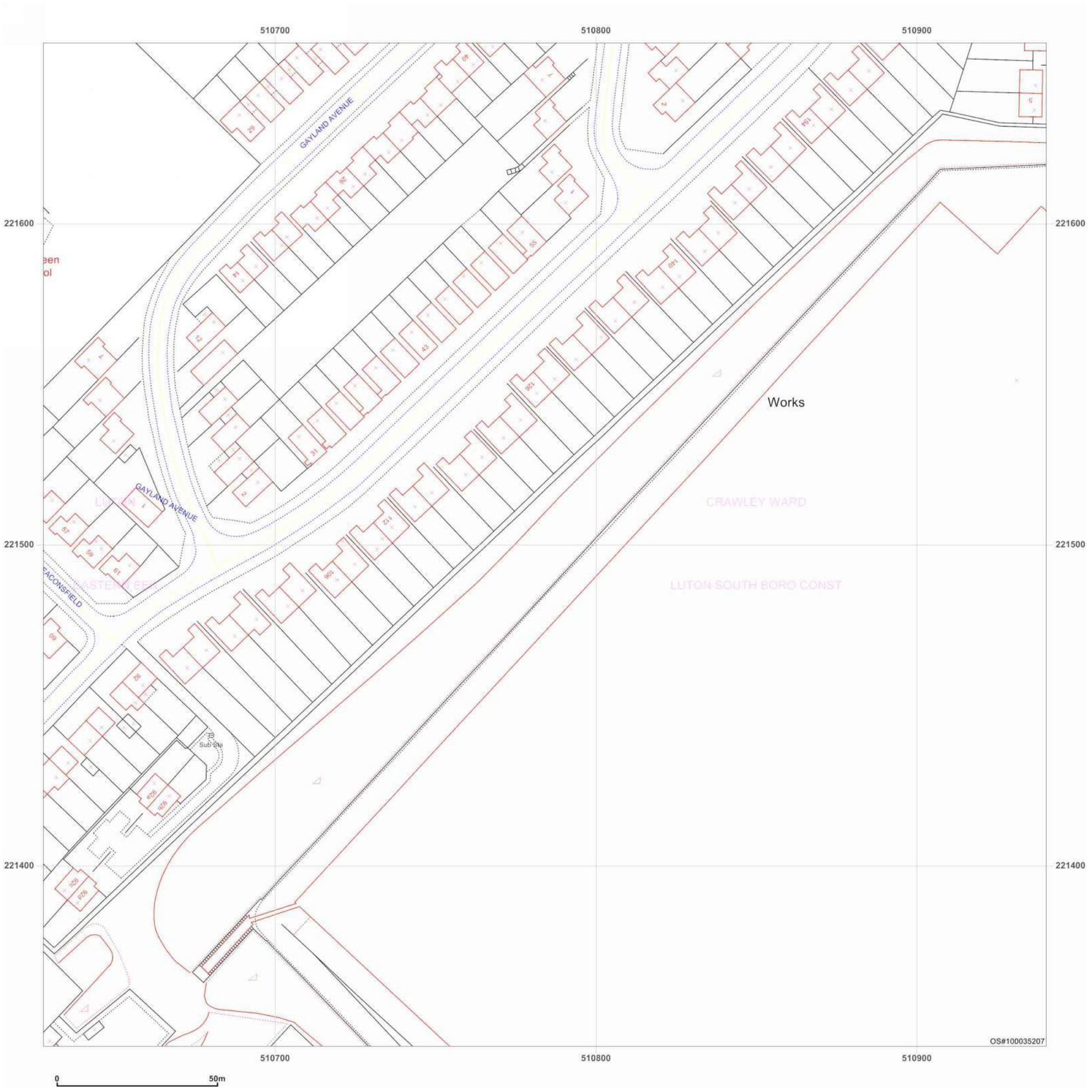

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_1_4
Grid Ref: 510784, 221500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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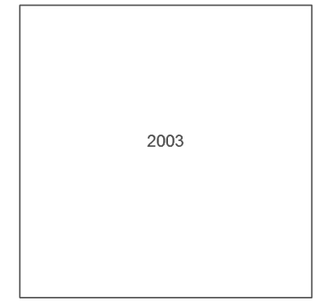

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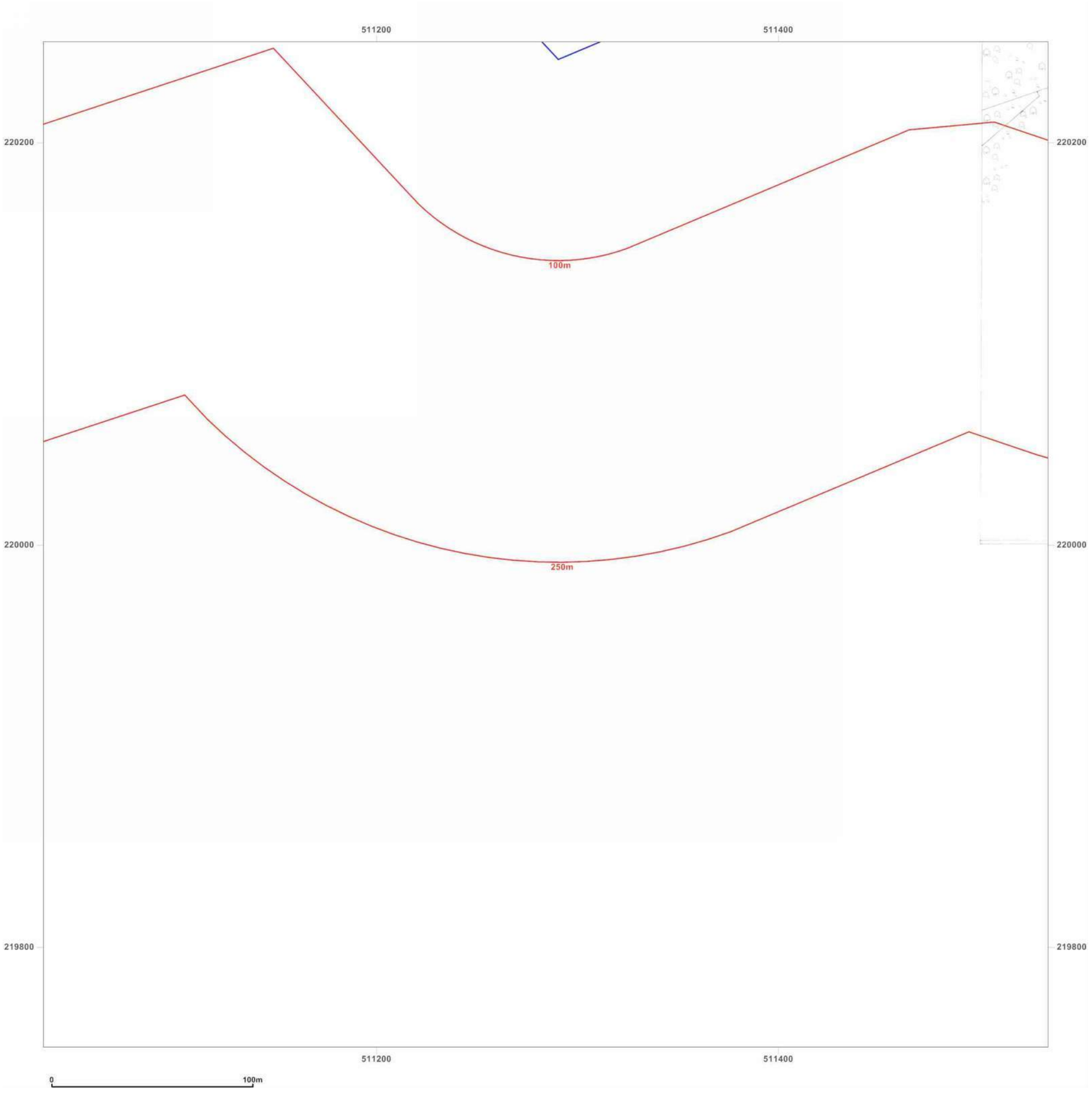

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_1
Grid Ref: 511284, 220000

Map Name: National Grid
Map date: **1962**
Scale: 1:1,250
Printed at: 1:2,000

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

Surveyed N/A
Revised N/A
Edition N/A
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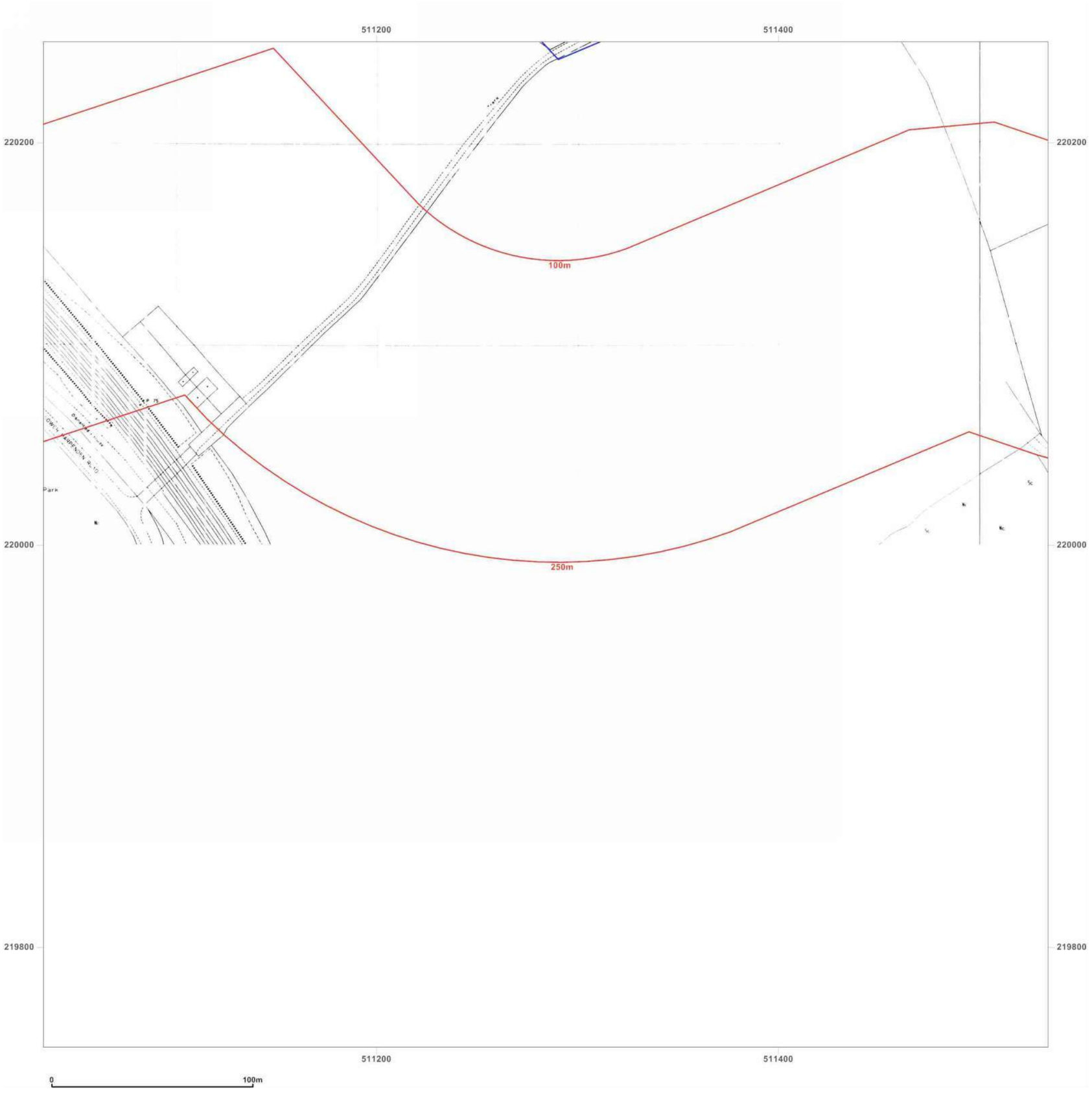

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_1
Grid Ref: 511284, 220000

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
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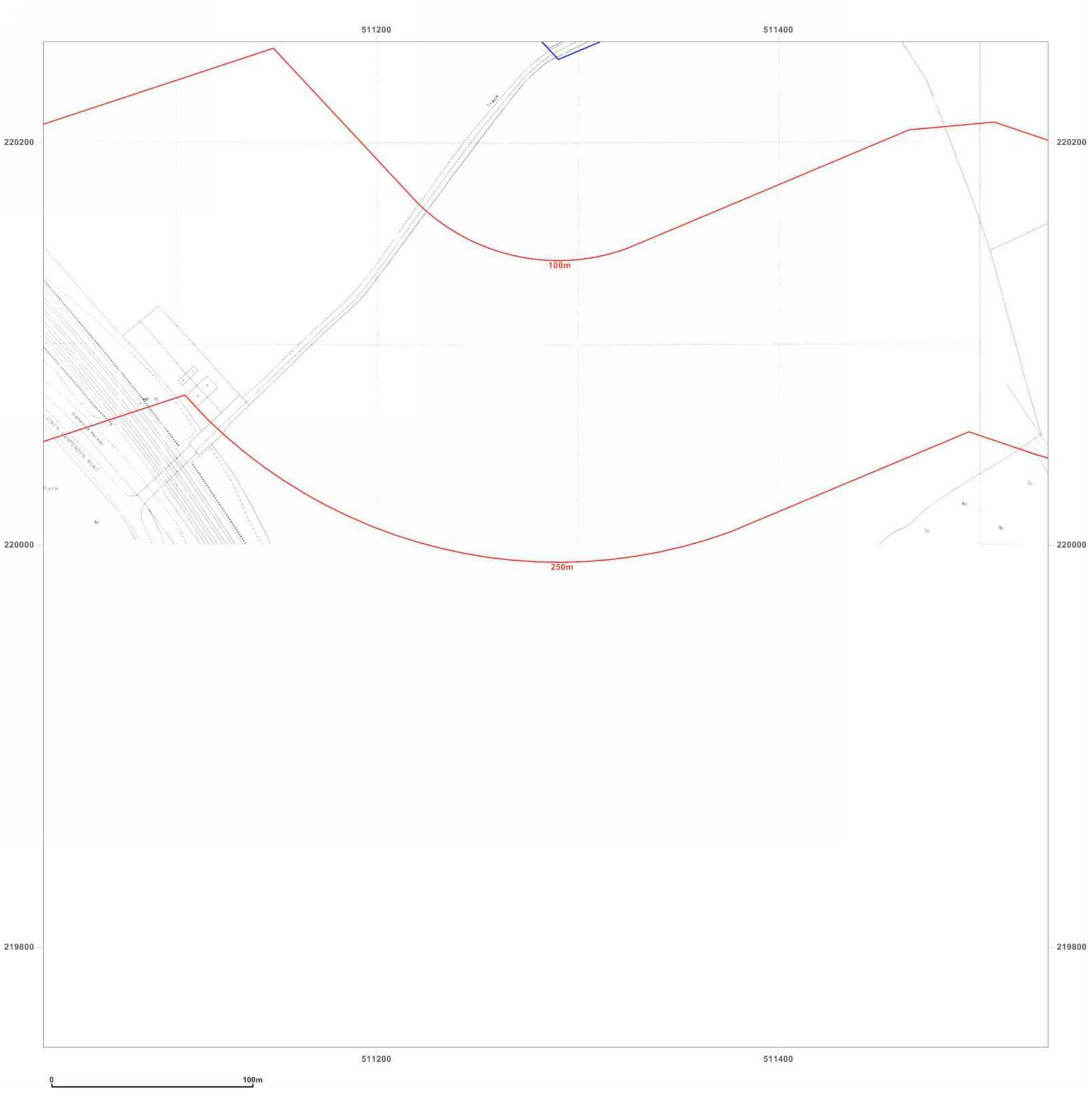

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_1
Grid Ref: 511284, 220000

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
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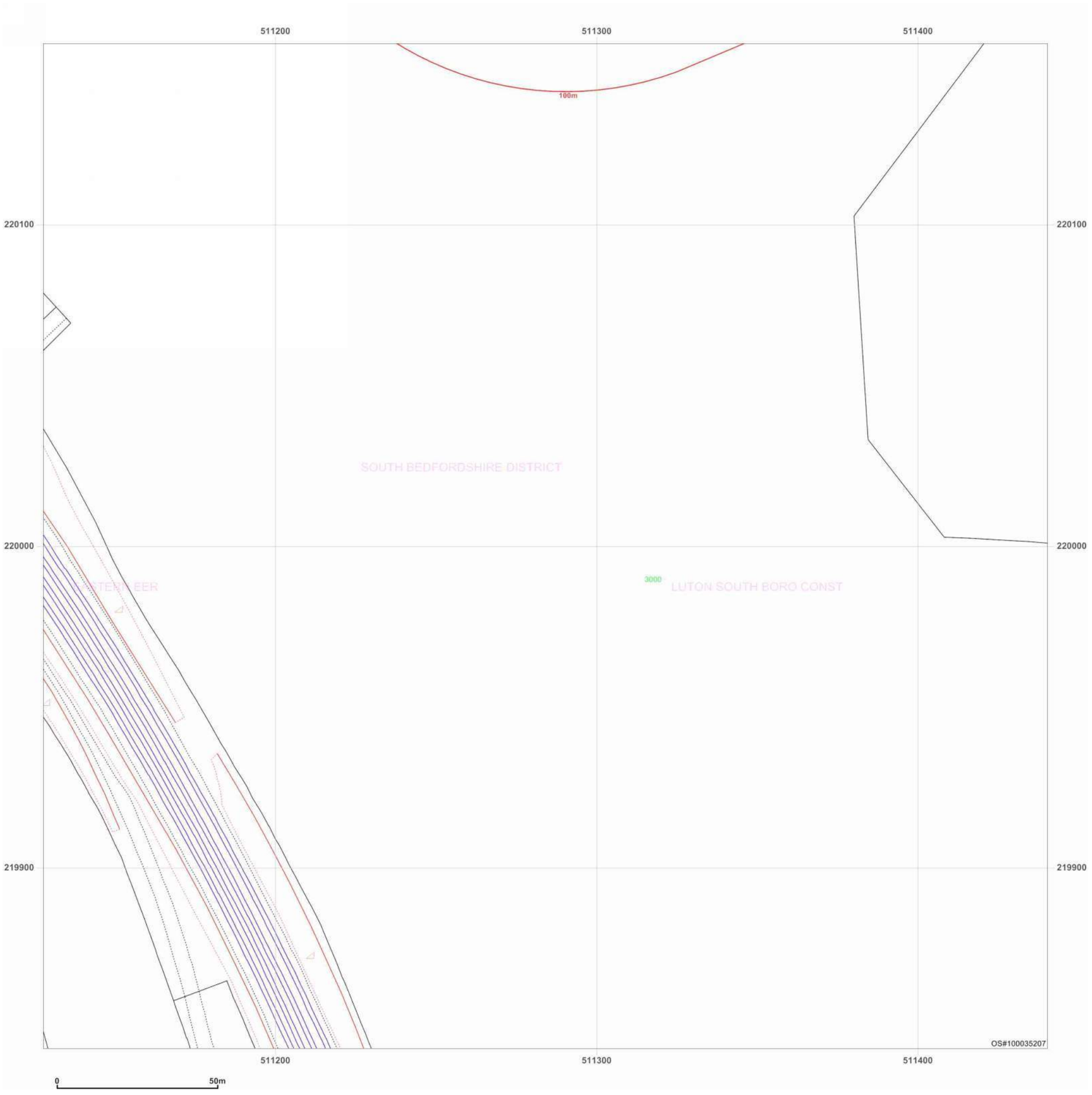

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_1
Grid Ref: 511284, 220000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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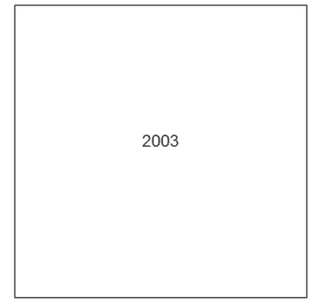

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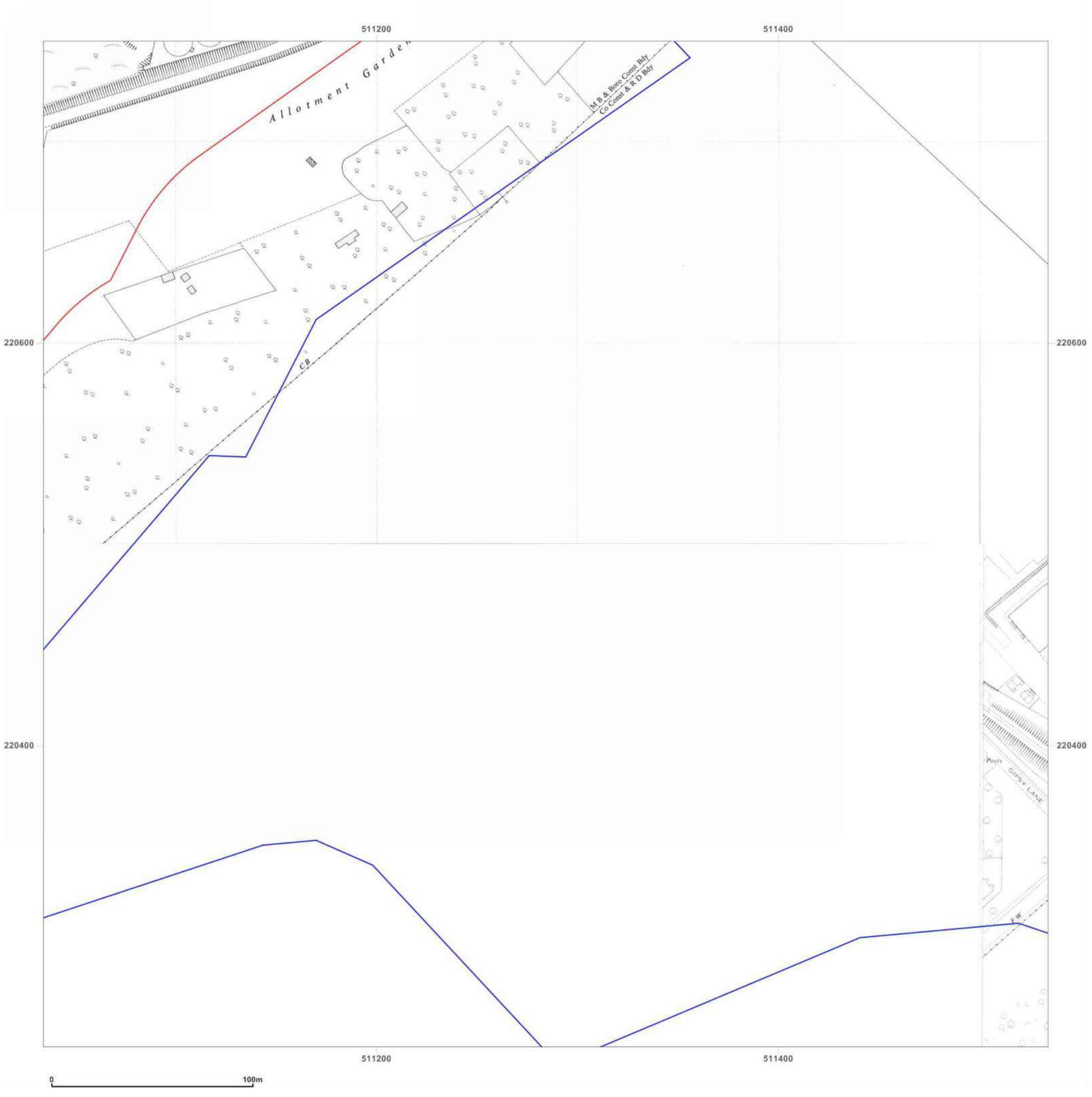

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_2
Grid Ref: 511284, 220500

Map Name: National Grid
Map date: **1962**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1958	Surveyed 1962 Revised 1962 Edition N/A Copyright 1963 Levelled 1958
Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A

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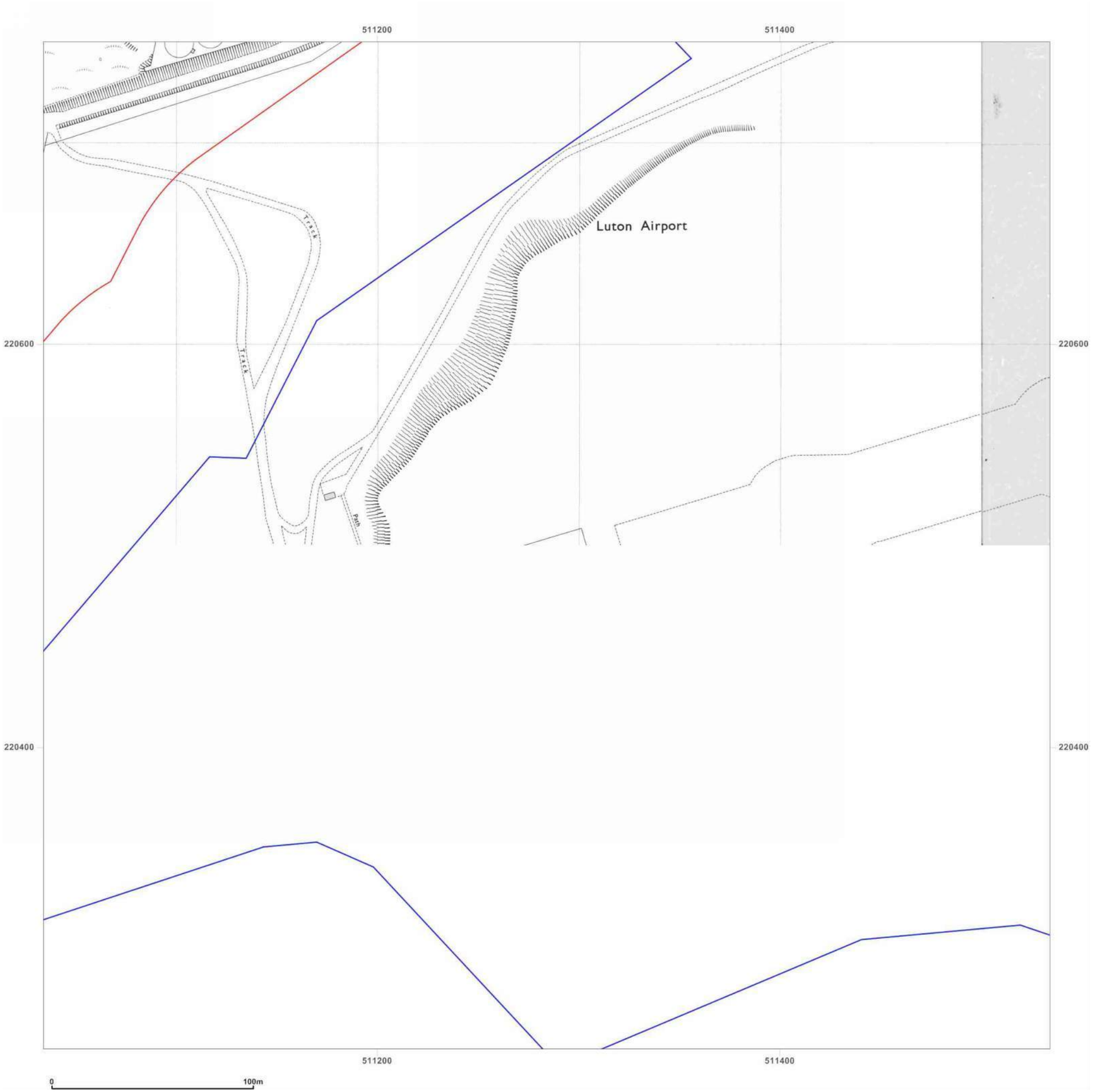

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_2
Grid Ref: 511284, 220500

Map Name: National Grid

Map date: **1973-1974**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1961
Revised 1973
Edition N/A
Copyright 1974
Levelled 1958

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Revised N/A
Edition N/A
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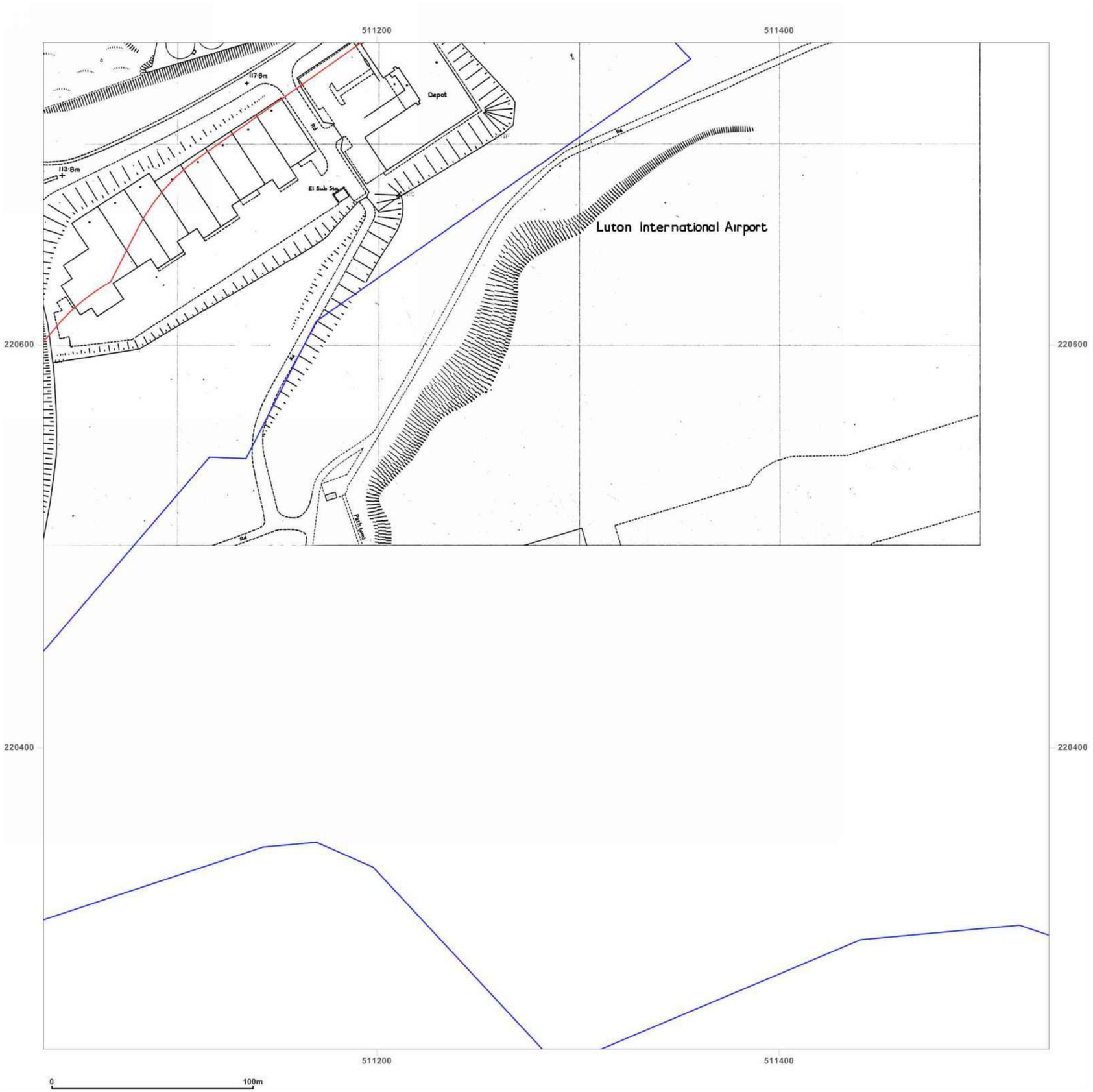

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_2
Grid Ref: 511284, 220500

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

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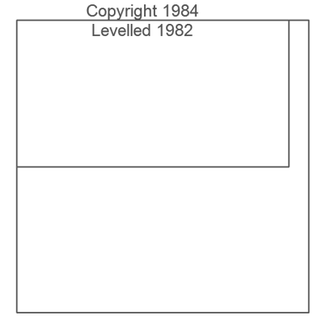
Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982



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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_2
Grid Ref: 511284, 220500

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
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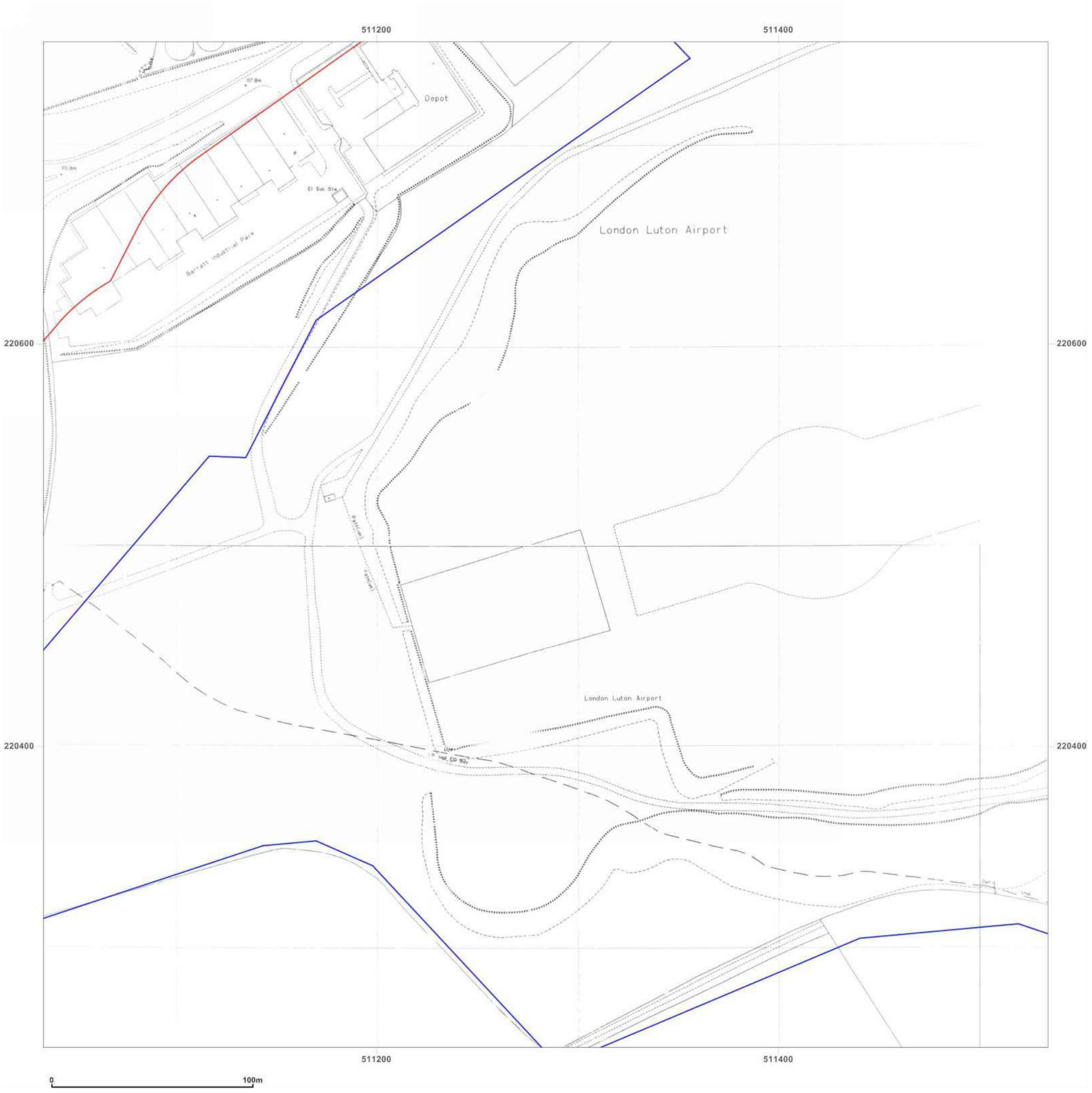

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_2
Grid Ref: 511284, 220500

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1993
Revised N/A
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Copyright 1993
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Surveyed 1993
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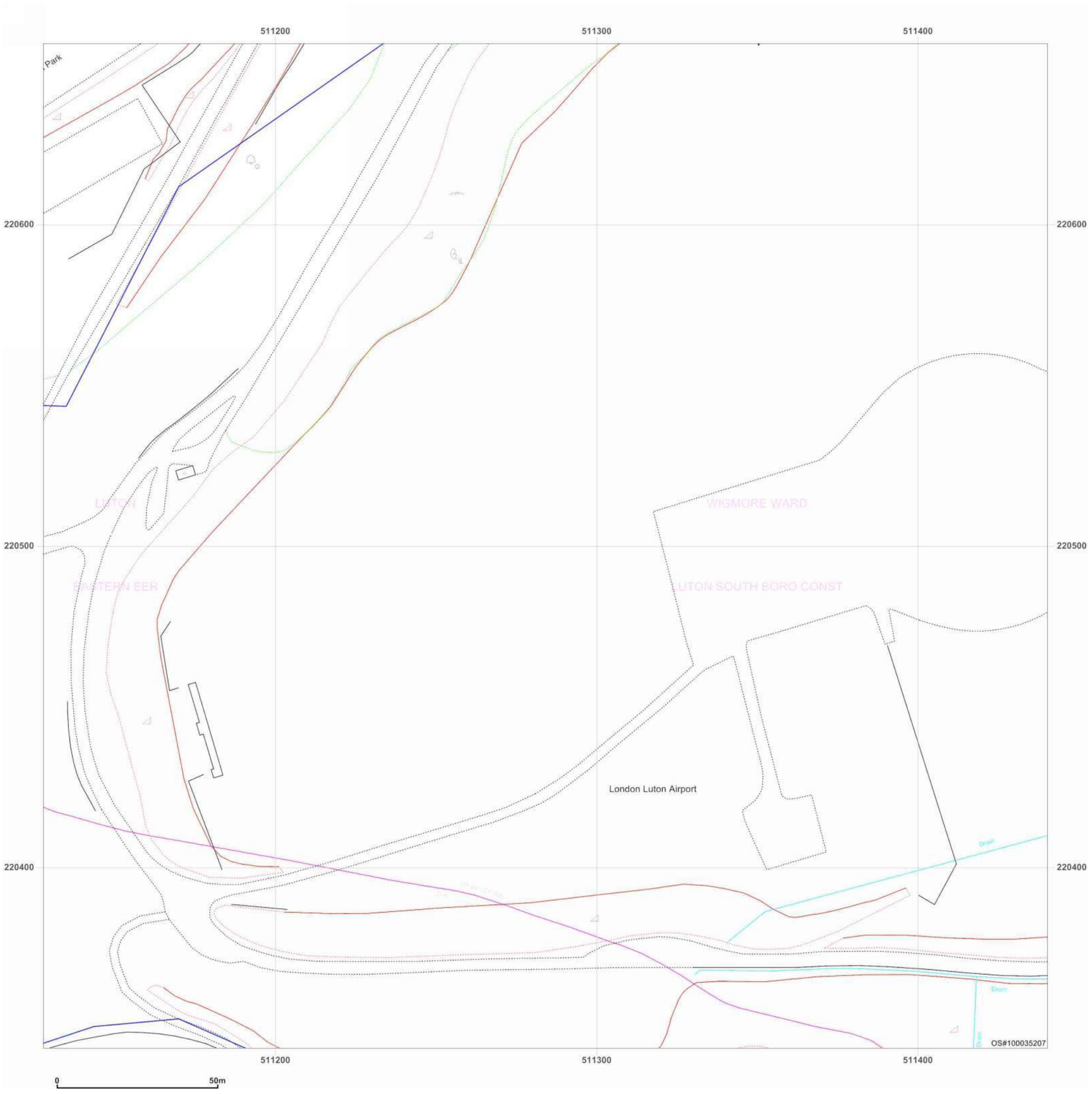

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_2
Grid Ref: 511284, 220500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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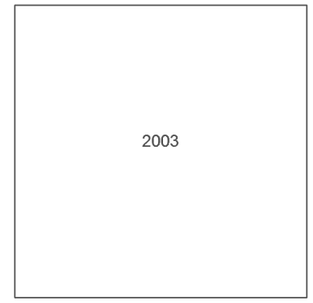

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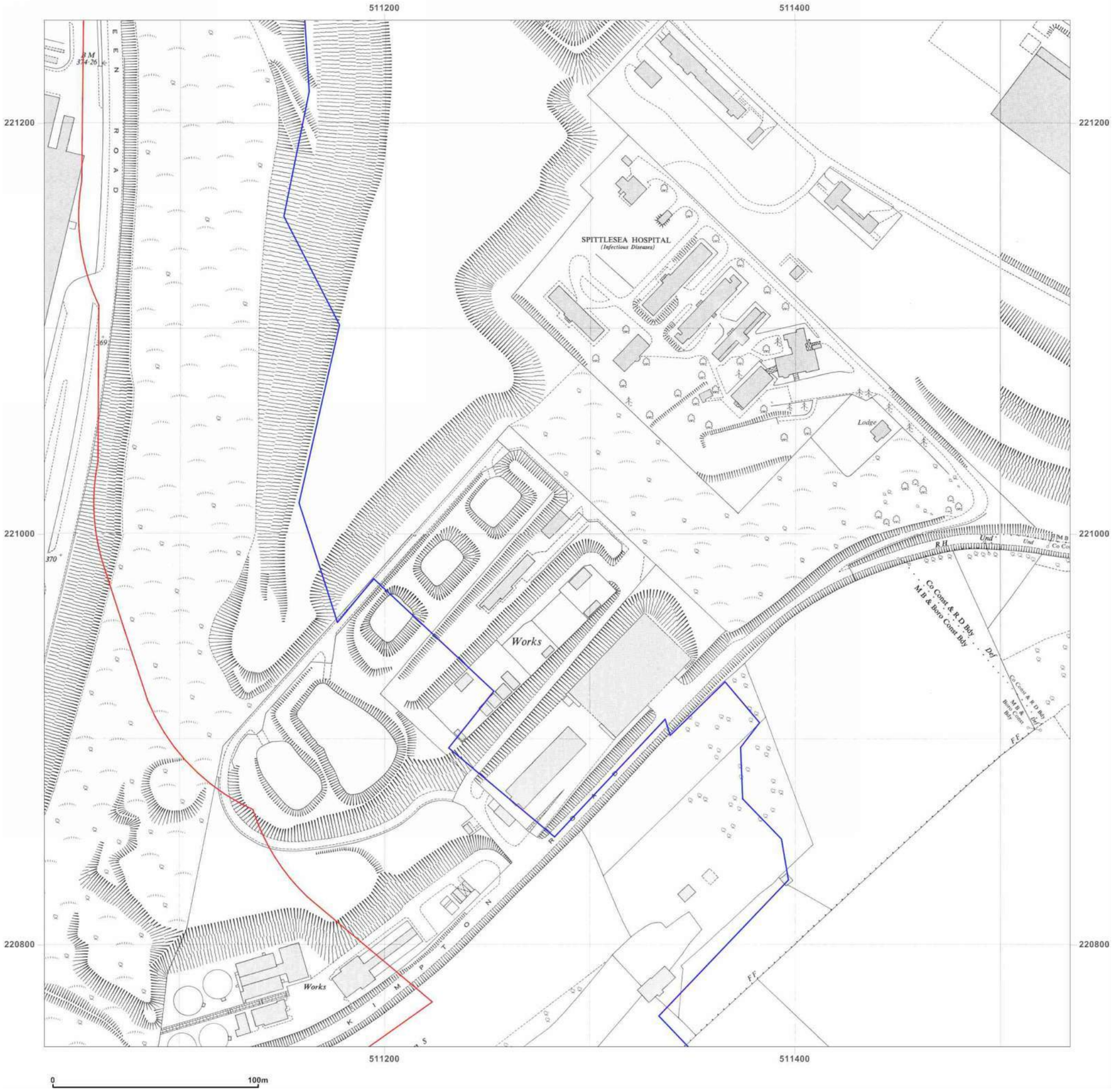

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_3
Grid Ref: 511284, 221000

Map Name: National Grid

Map date: **1962-1963**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1958	Surveyed 1962 Revised 1962 Edition N/A Copyright 1963 Levelled 1958
Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1958	Surveyed 1962 Revised 1962 Edition N/A Copyright 1963 Levelled 1958

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_3
Grid Ref: 511284, 221000

Map Name: National Grid
Map date: **1973-1974**
Scale: 1:1,250
Printed at: 1:2,000

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

Surveyed 1961
Revised 1973
Edition N/A
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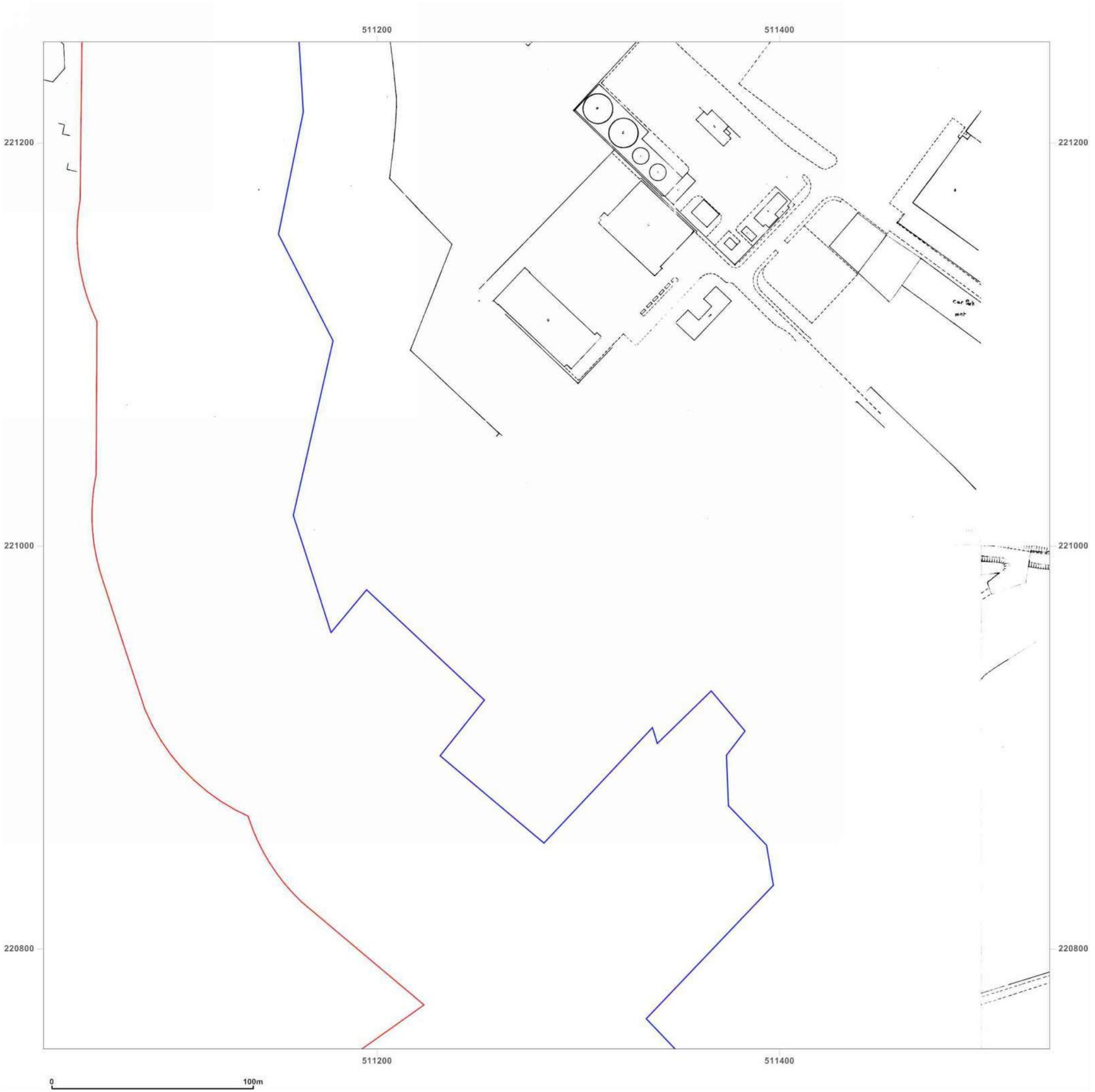

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_3
Grid Ref: 511284, 221000

Map Name: National Grid

Map date: **1975**

Scale: 1:1,250

Printed at: 1:2,000

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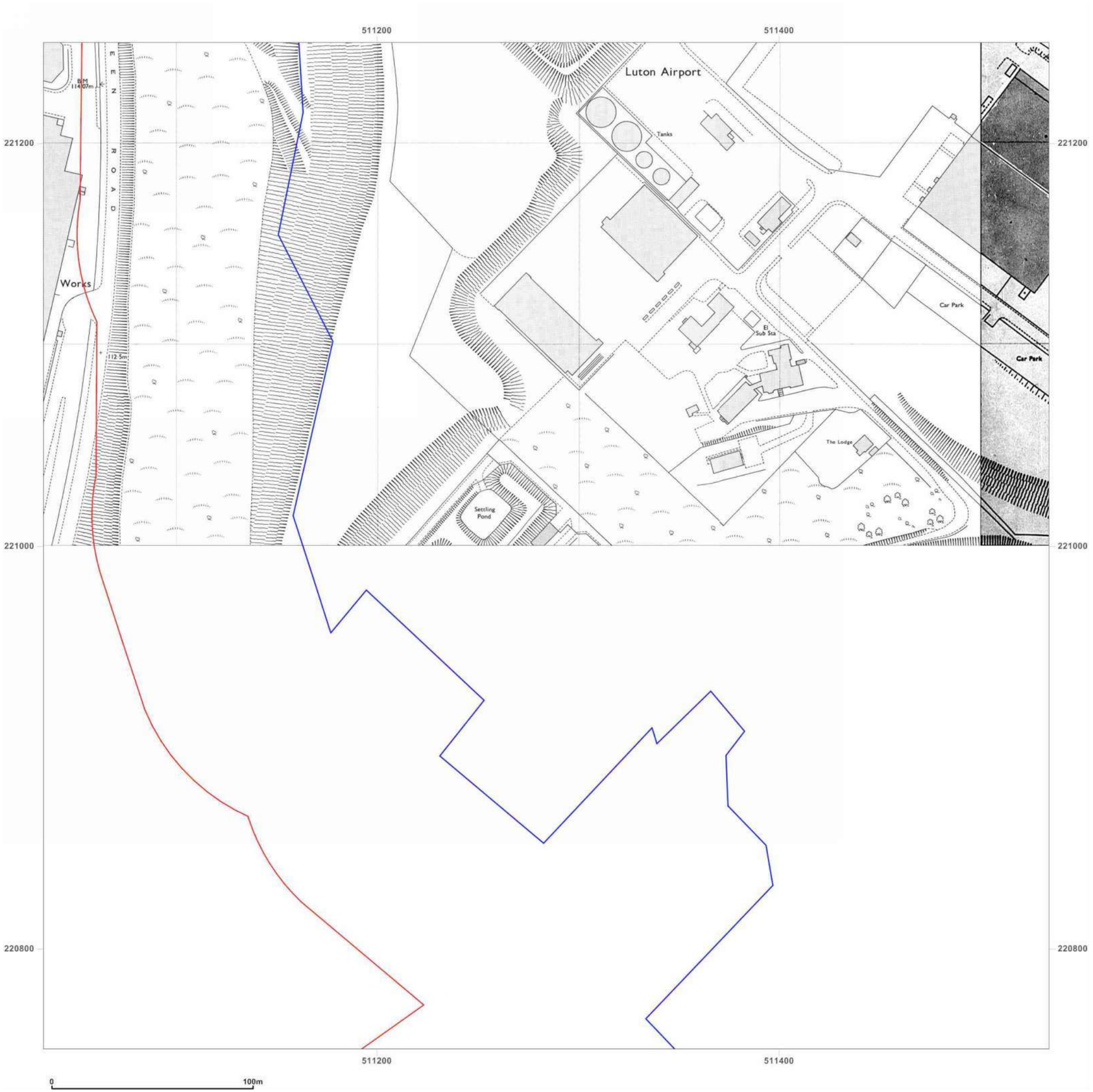

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_3
Grid Ref: 511284, 221000

Map Name: National Grid

Map date: **1976-1981**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1961	Surveyed N/A
Revised 1975	Revised N/A
Edition N/A	Edition N/A
Copyright 1976	Copyright 1981
Levelled 1958	Levelled 1958

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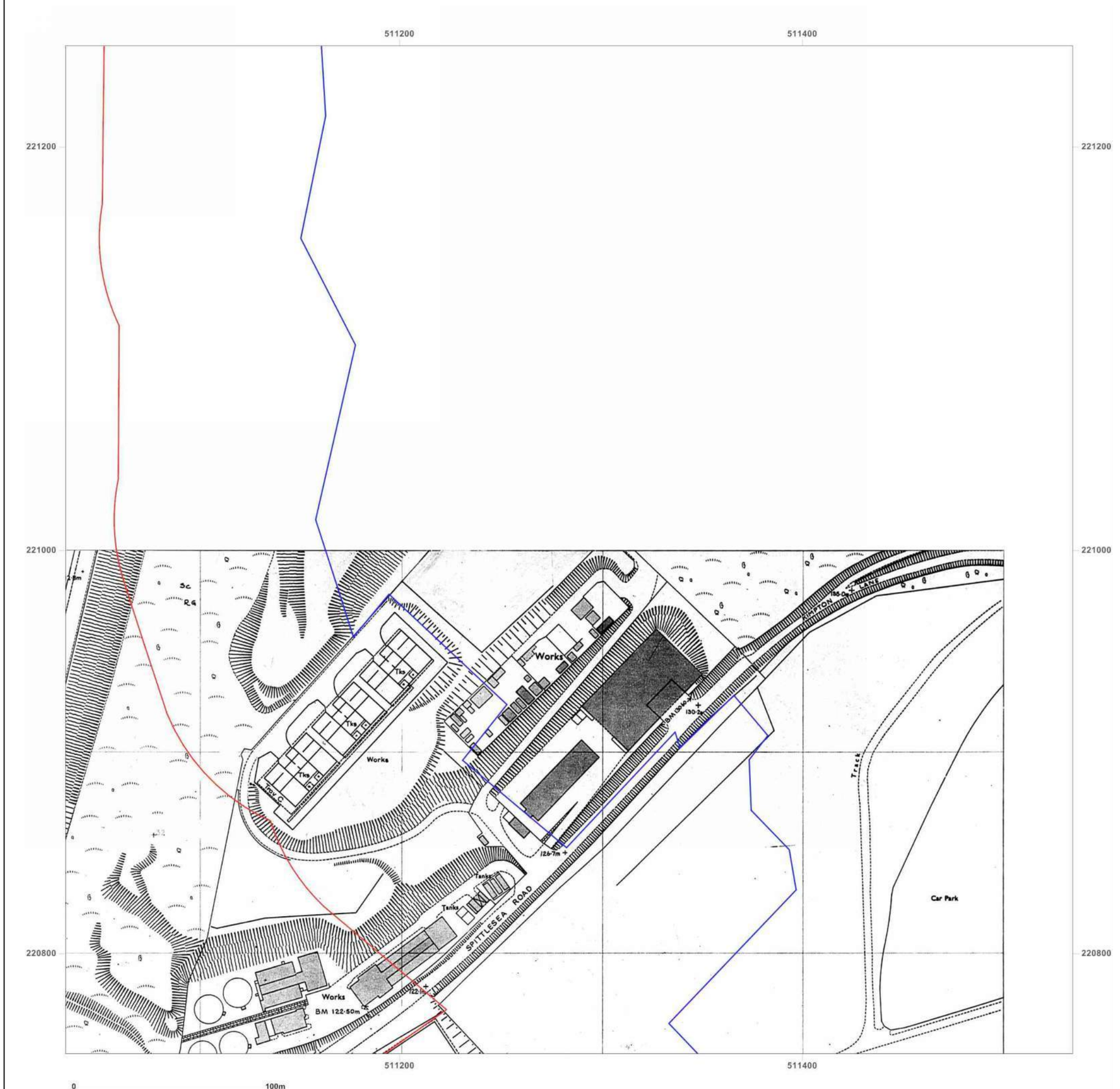

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_3
Grid Ref: 511284, 221000

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_3
Grid Ref: 511284, 221000

Map Name: National Grid

Map date: **1991-1993**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed N/A
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Copyright 1993
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_3
Grid Ref: 511284, 221000

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_3
Grid Ref: 511284, 221000

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed 1993
Revised N/A
Edition N/A
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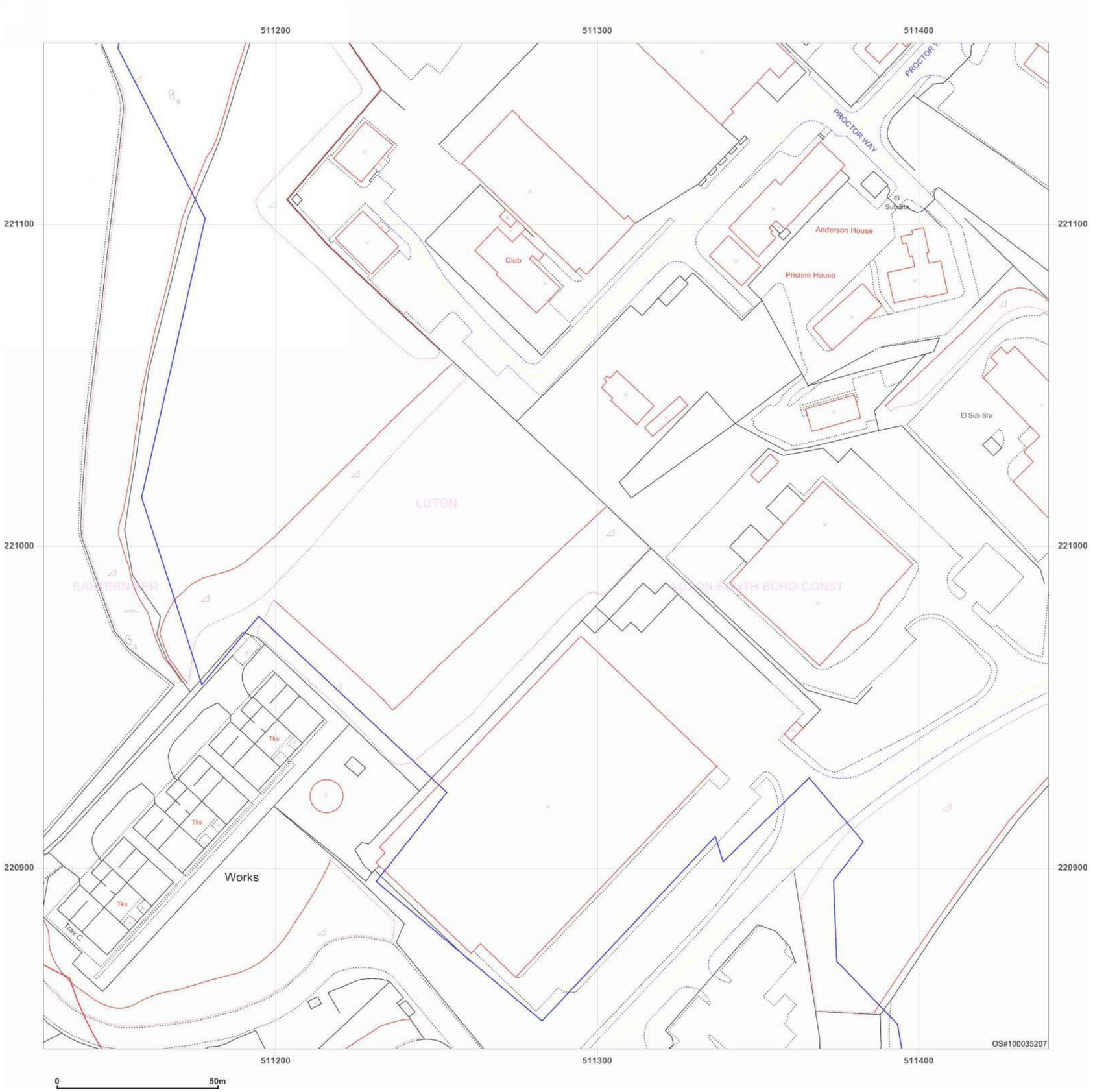

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_3
Grid Ref: 511284, 221000

Map Name: LandLine
Map date: **2003**
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Printed at: 1:1,250

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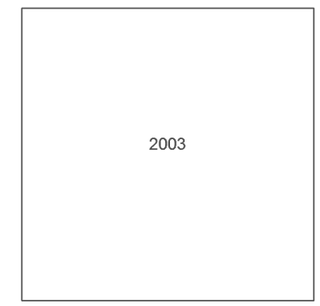

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Production date: 20 November 2020

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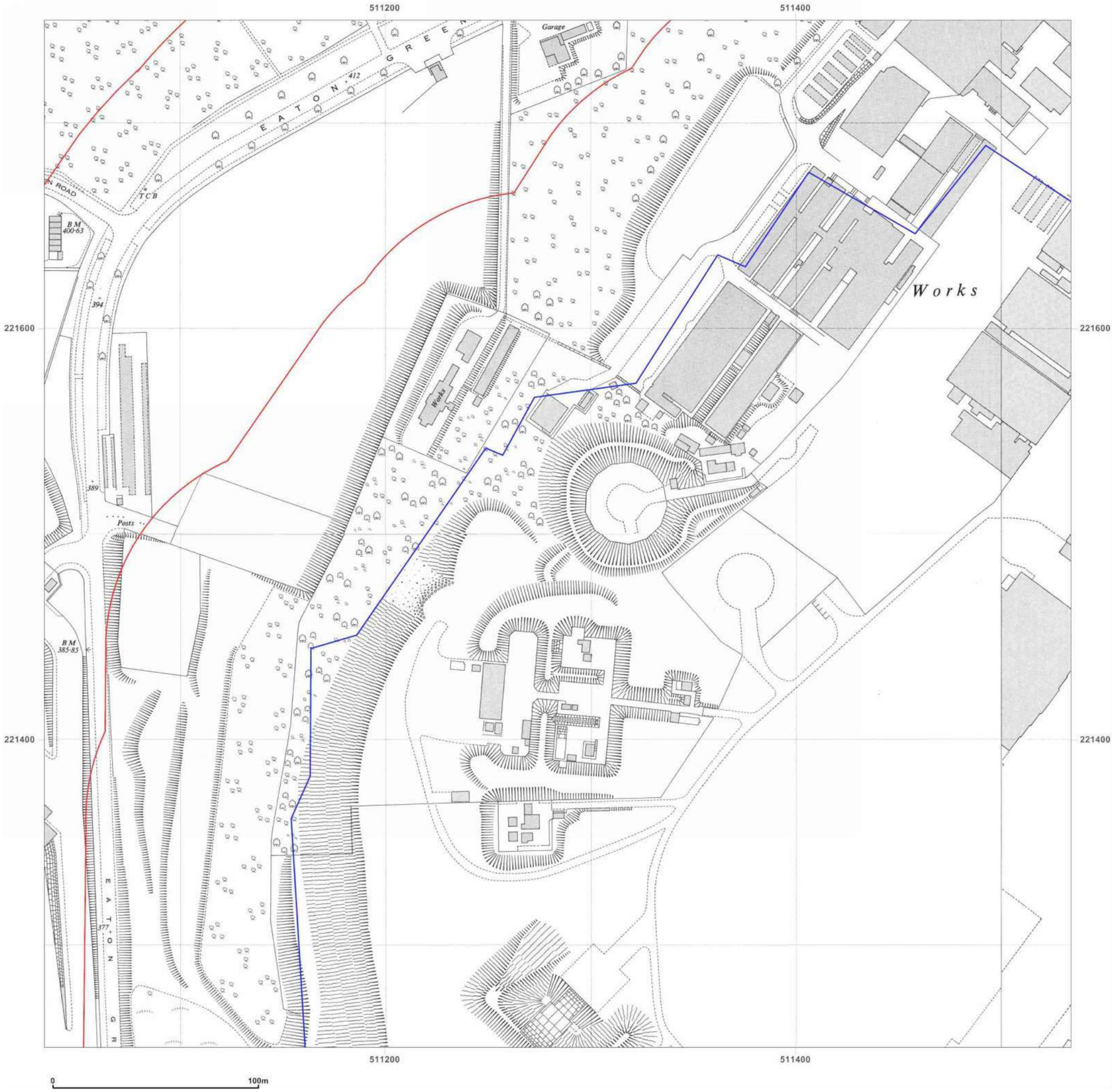
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: National Grid

Map date: **1962-1963**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1958	Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1958
Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1958	Surveyed 1962 Revised 1962 Edition N/A Copyright 1963 Levelled 1958

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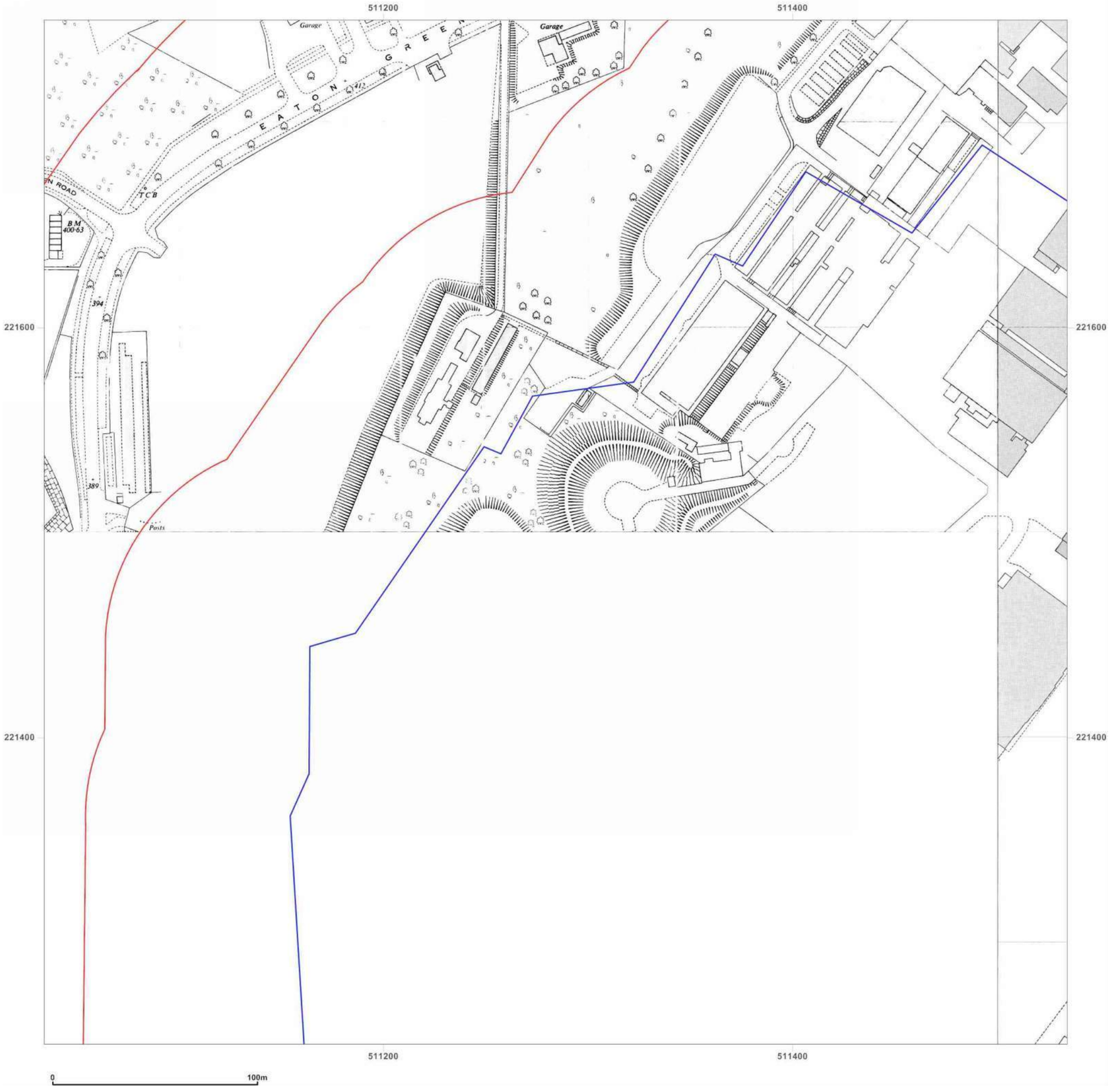

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: National Grid

Map date: **1966-1968**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1961
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

Surveyed 1962
Revised 1967
Edition N/A
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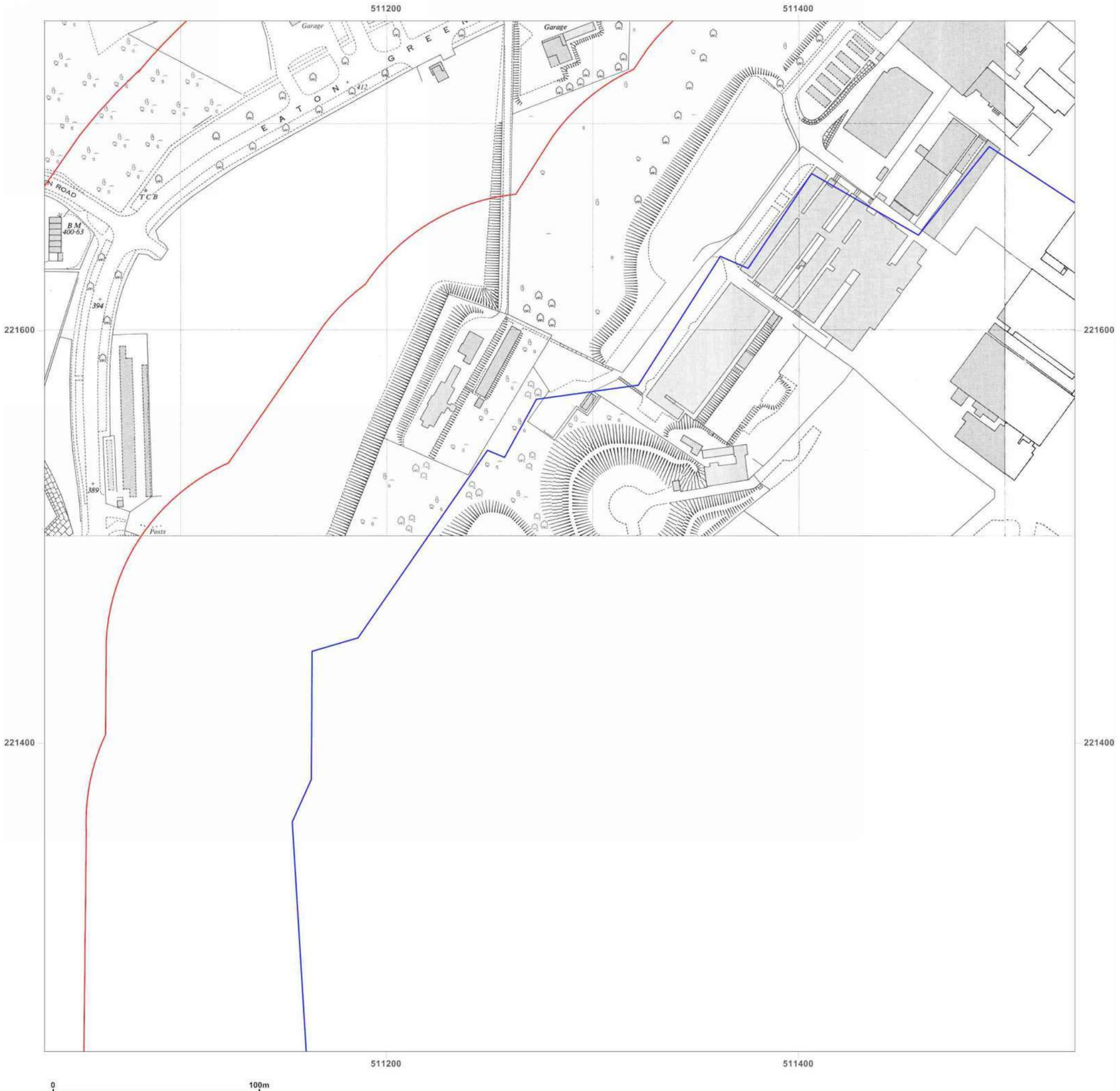

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: National Grid

Map date: **1967-1968**

Scale: 1:1,250

Printed at: 1:2,000

N
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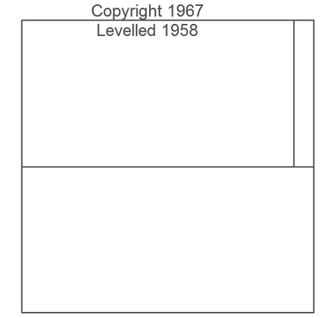
Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1958

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



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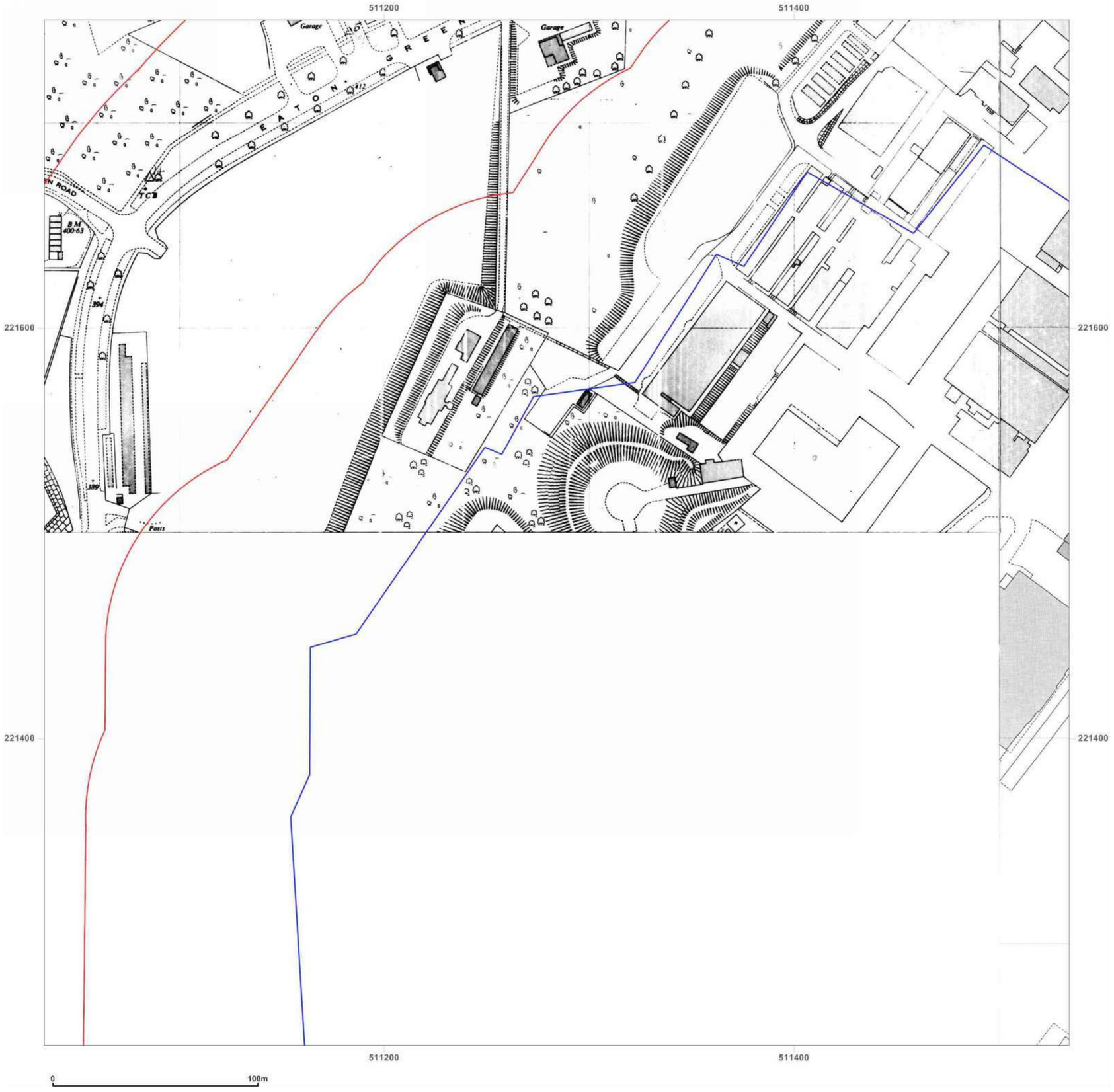

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: National Grid

Map date: **1968-1973**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1968
Levelled N/A

Surveyed 1962
Revised 1973
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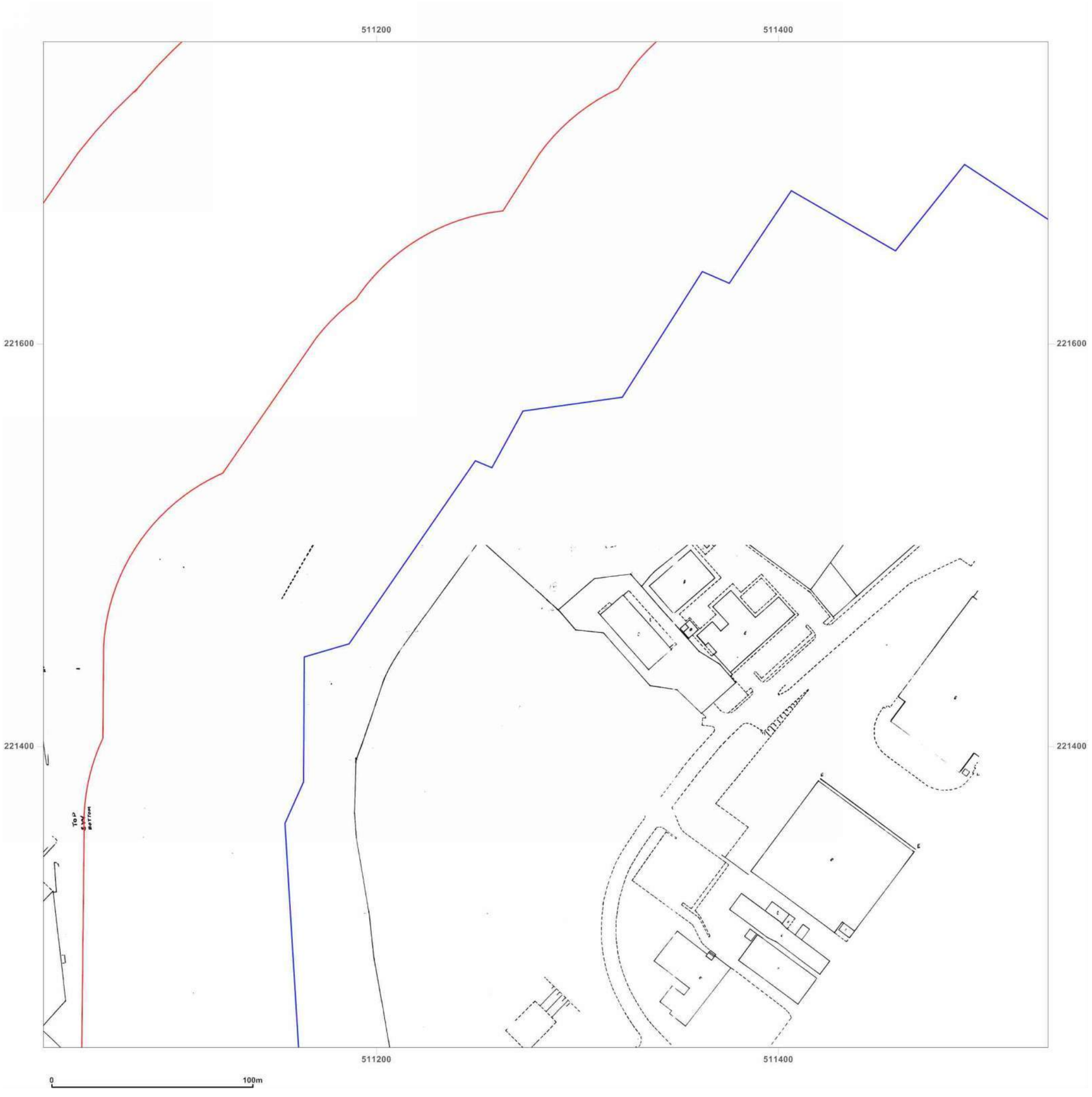

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: National Grid

Map date: **1975**

Scale: 1:1,250

Printed at: 1:2,000

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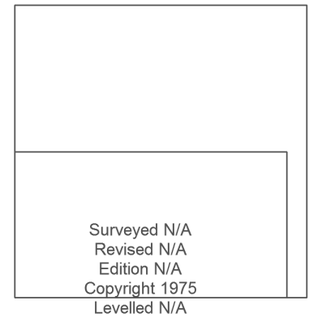

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: National Grid

Map date: **1974-1979**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1958
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Revised N/A
Edition N/A
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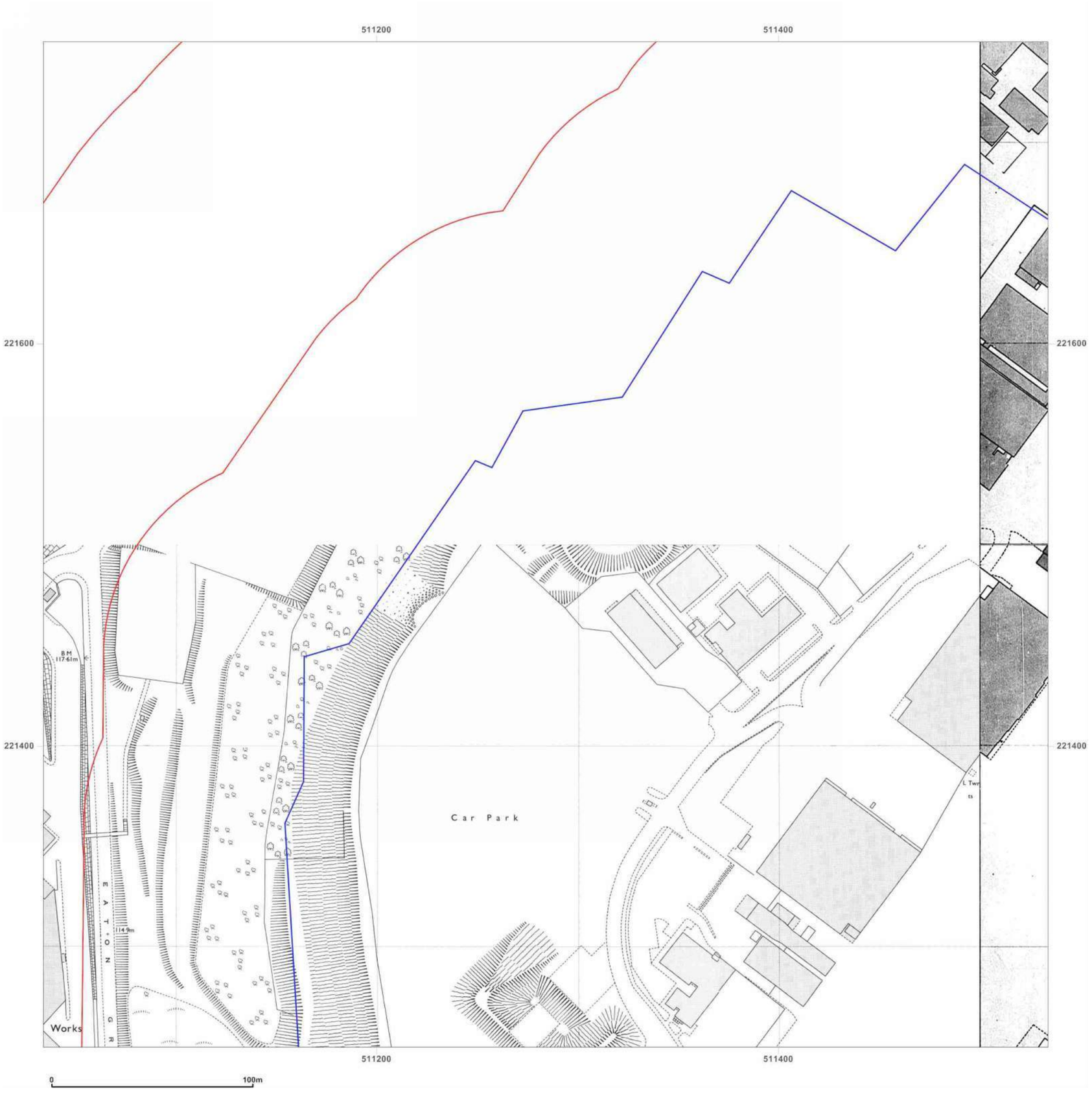

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: National Grid

Map date: **1976-1981**

Scale: 1:1,250

Printed at: 1:2,000

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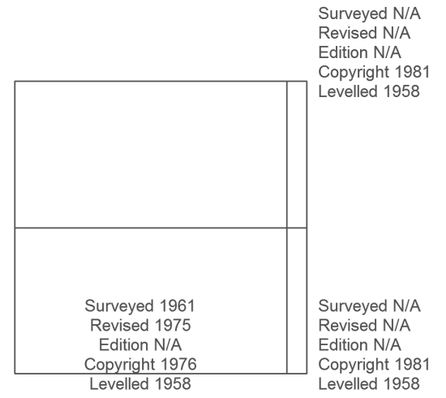

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: National Grid

Map date: **1987-1991**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1990
Revised 1990
Edition N/A
Copyright 1990
Levelled N/A

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982

Surveyed N/A
Revised N/A
Edition N/A
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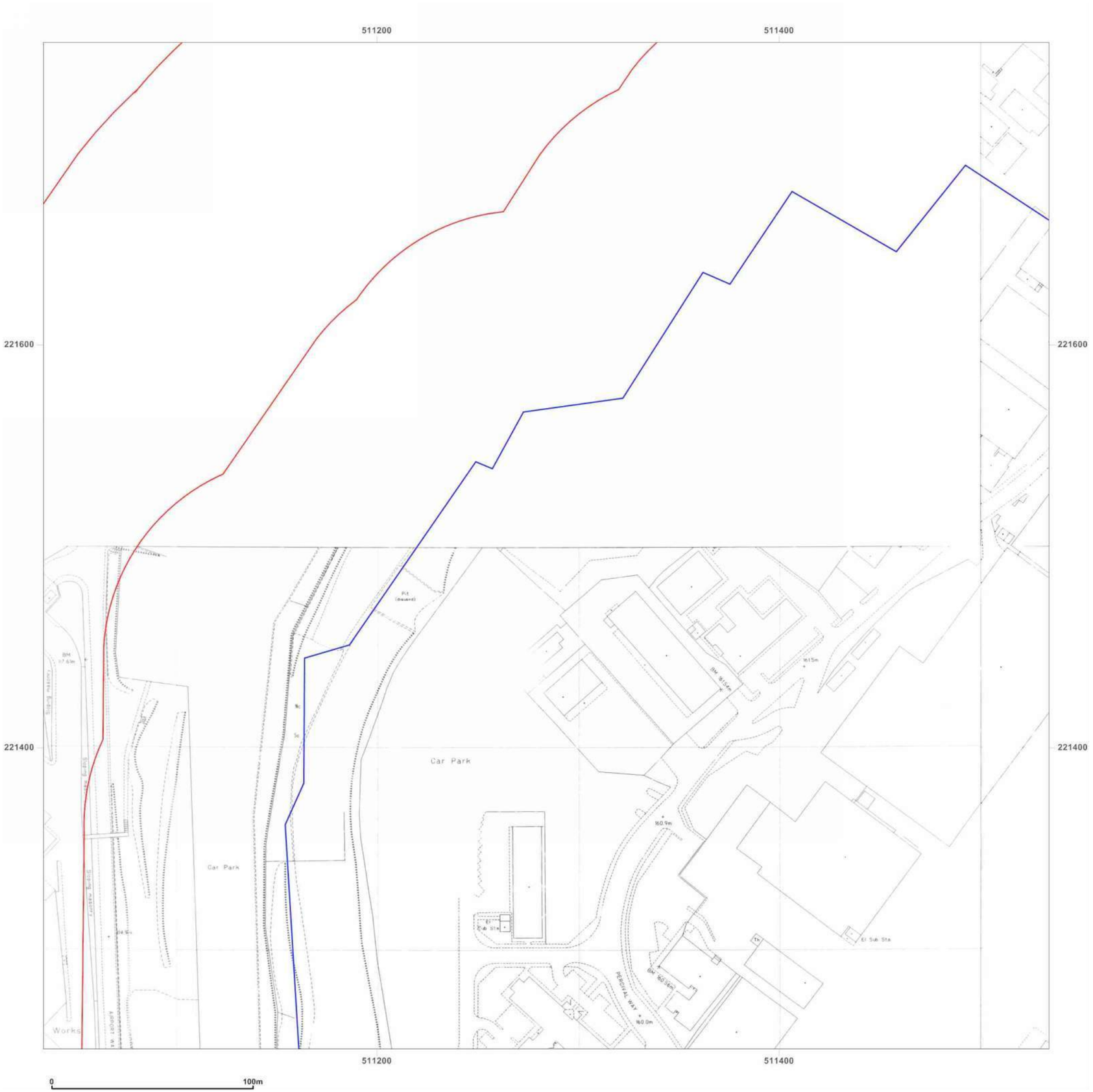

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: National Grid
Map date: **1991-1993**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1991 Levelled 1982
Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A

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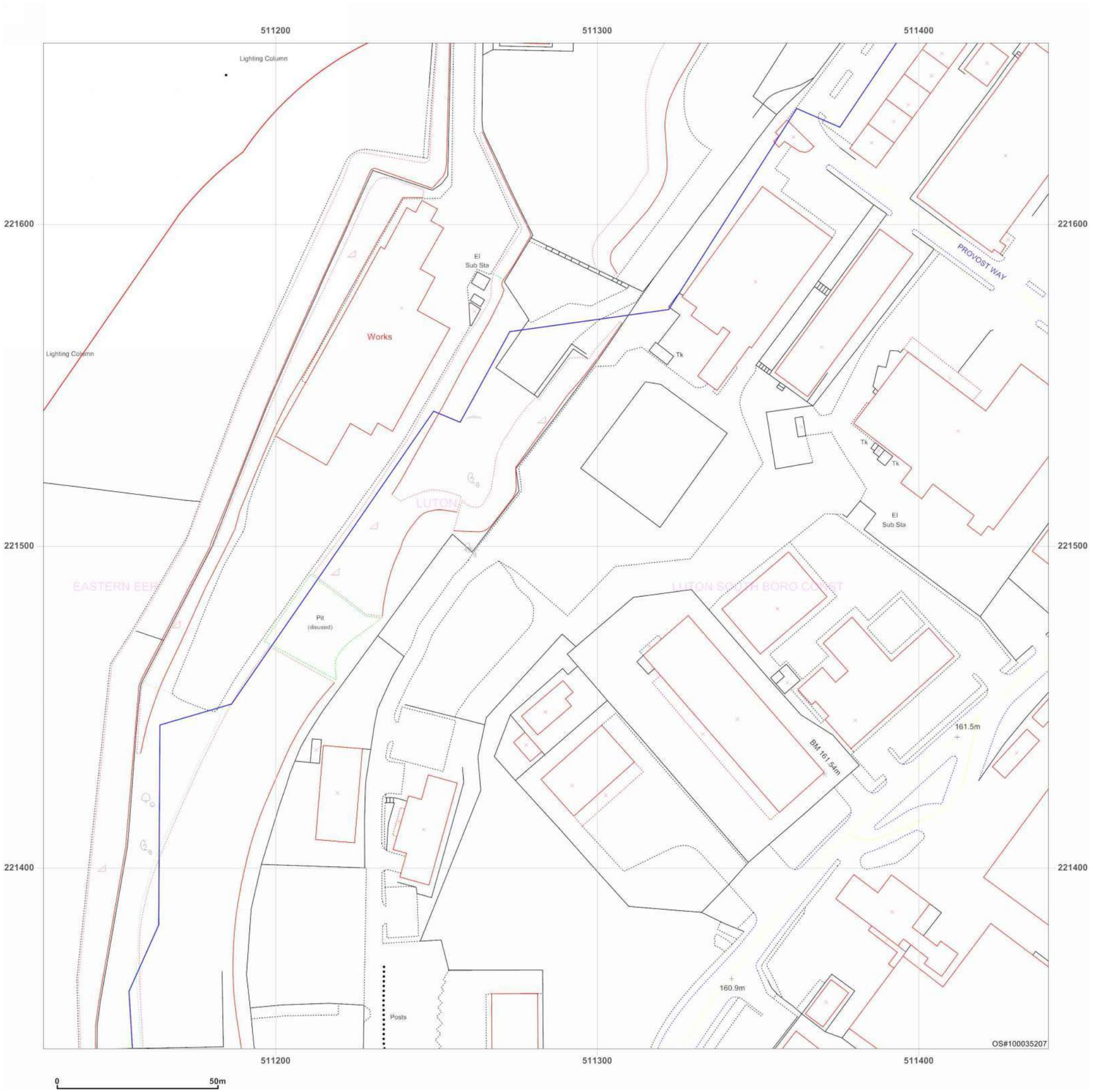

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_4
Grid Ref: 511284, 221500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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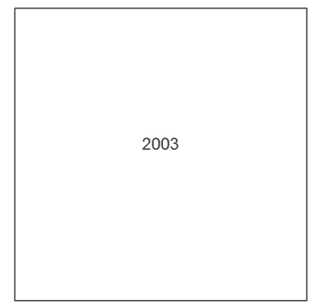

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_5
Grid Ref: 511284, 222000

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_5
Grid Ref: 511284, 222000

Map Name: National Grid

Map date: **1966-1967**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1961
Revised 1966
Edition N/A
Copyright 1966
Levelled 1958

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

Surveyed 1961
Revised 1967
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_5
Grid Ref: 511284, 222000

Map Name: National Grid

Map date: **1967-1968**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1958

Surveyed N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_5
Grid Ref: 511284, 222000

Map Name: National Grid

Map date: **1968-1973**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_5
Grid Ref: 511284, 222000

Map Name: National Grid

Map date: **1978-1981**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled N/A

Surveyed 1958
Revised 1979
Edition N/A
Copyright 1979
Levelled 1958

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Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_5
Grid Ref: 511284, 222000

Map Name: National Grid

Map date: **1985-1990**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1990
Revised 1990
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_5
Grid Ref: 511284, 222000

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Revised N/A
Edition N/A
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Revised N/A
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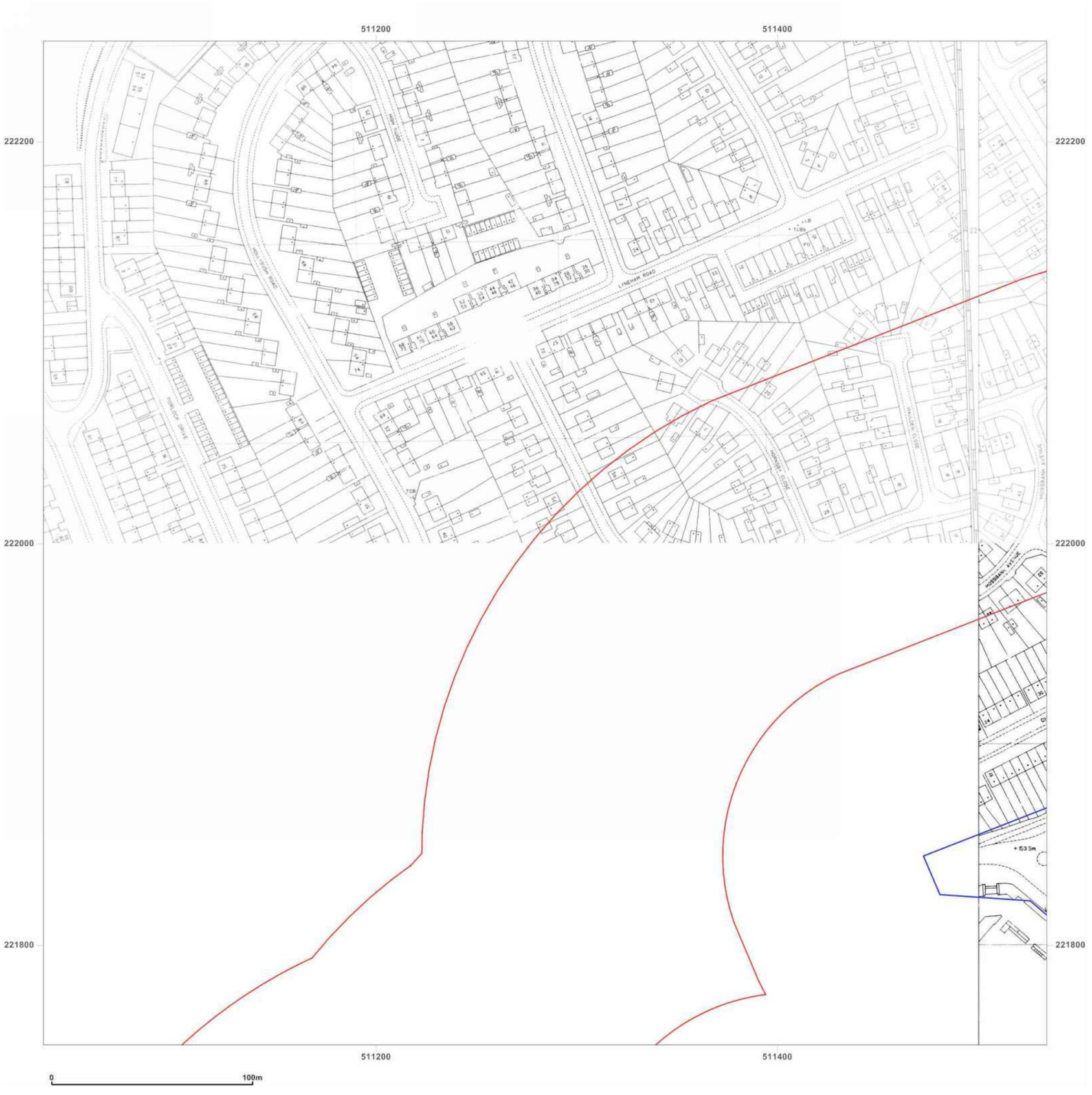

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_5
Grid Ref: 511284, 222000

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_2_5
Grid Ref: 511284, 222000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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2003

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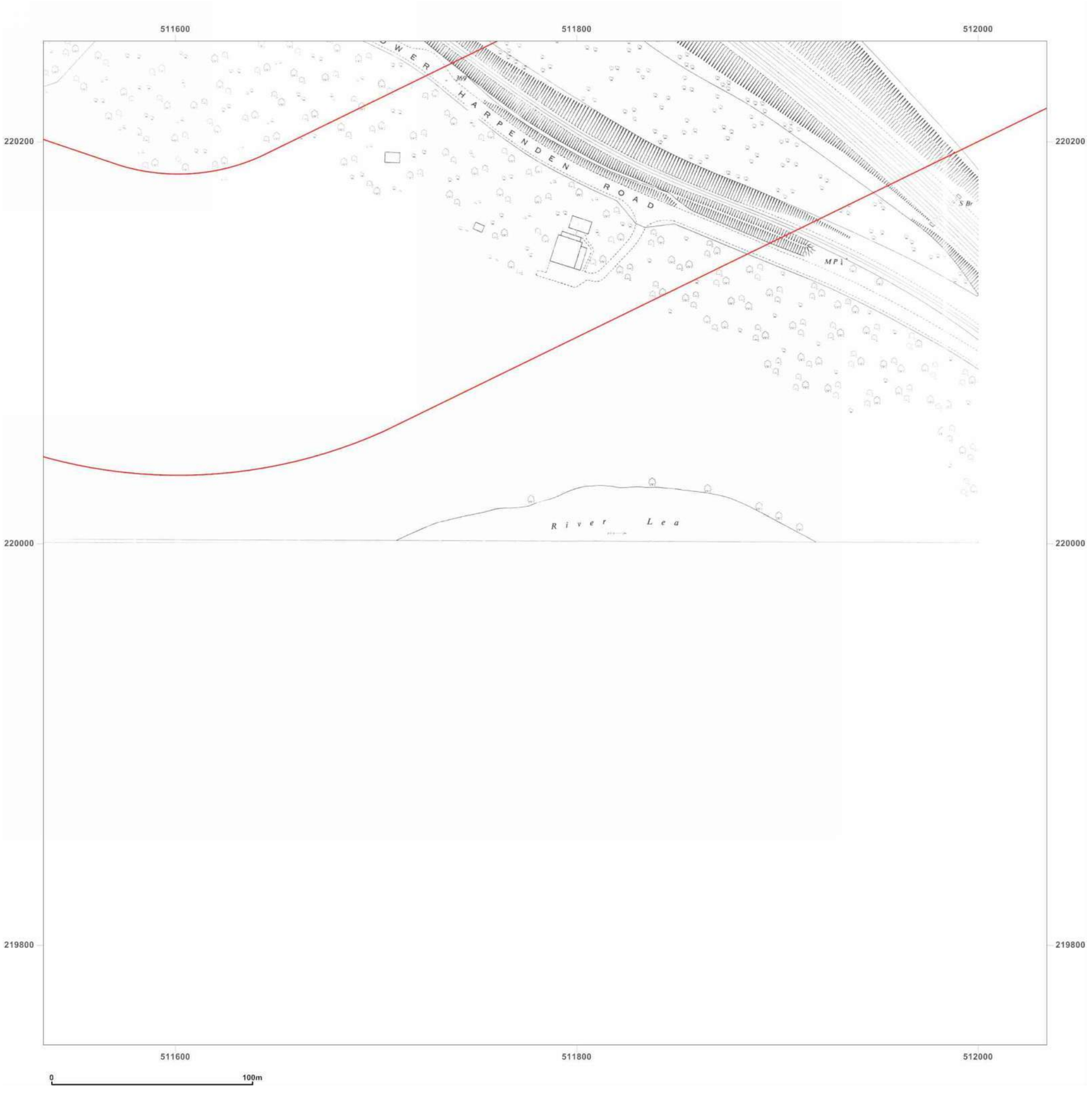

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_1
Grid Ref: 511784, 220000

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

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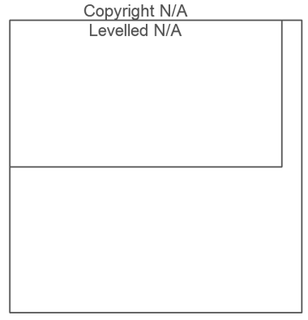
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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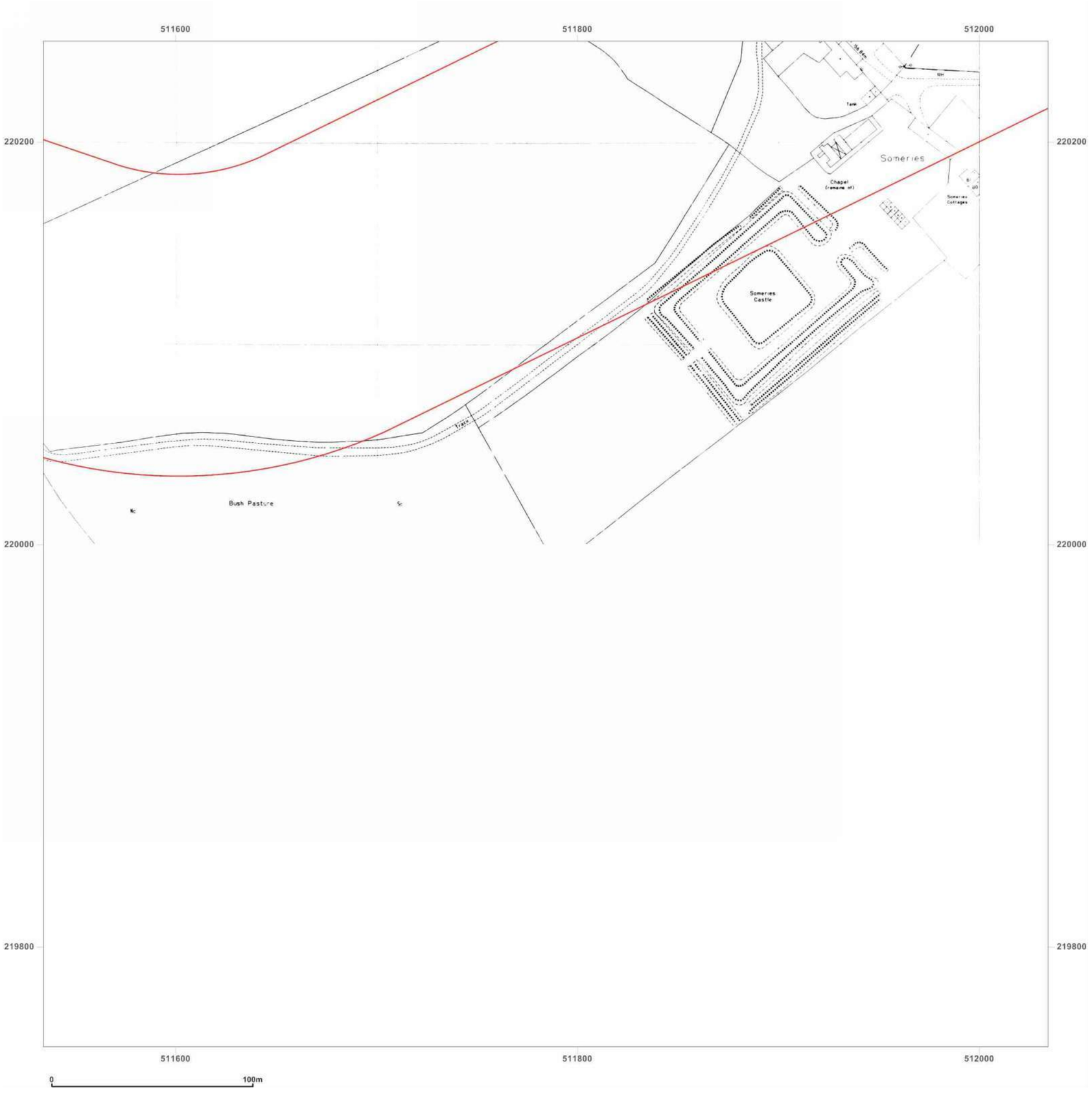

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_1
Grid Ref: 511784, 220000

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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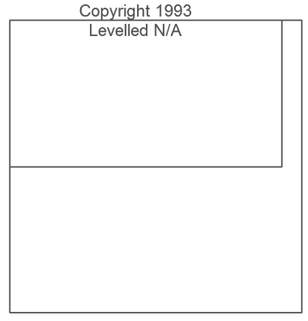
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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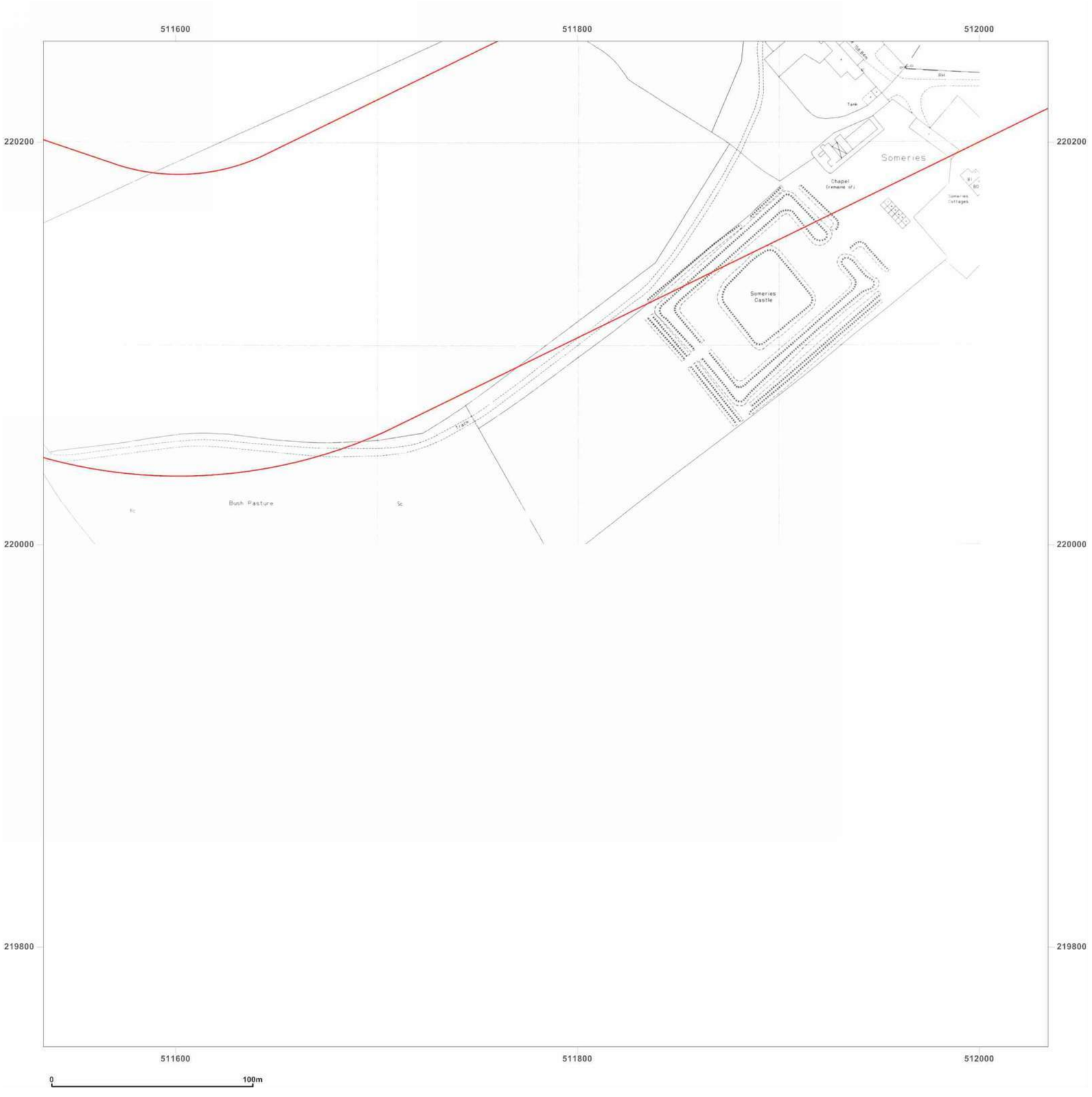


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_1
Grid Ref: 511784, 220000

Map Name: National Grid

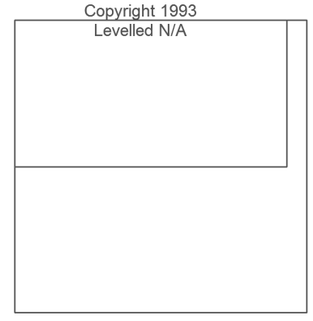
Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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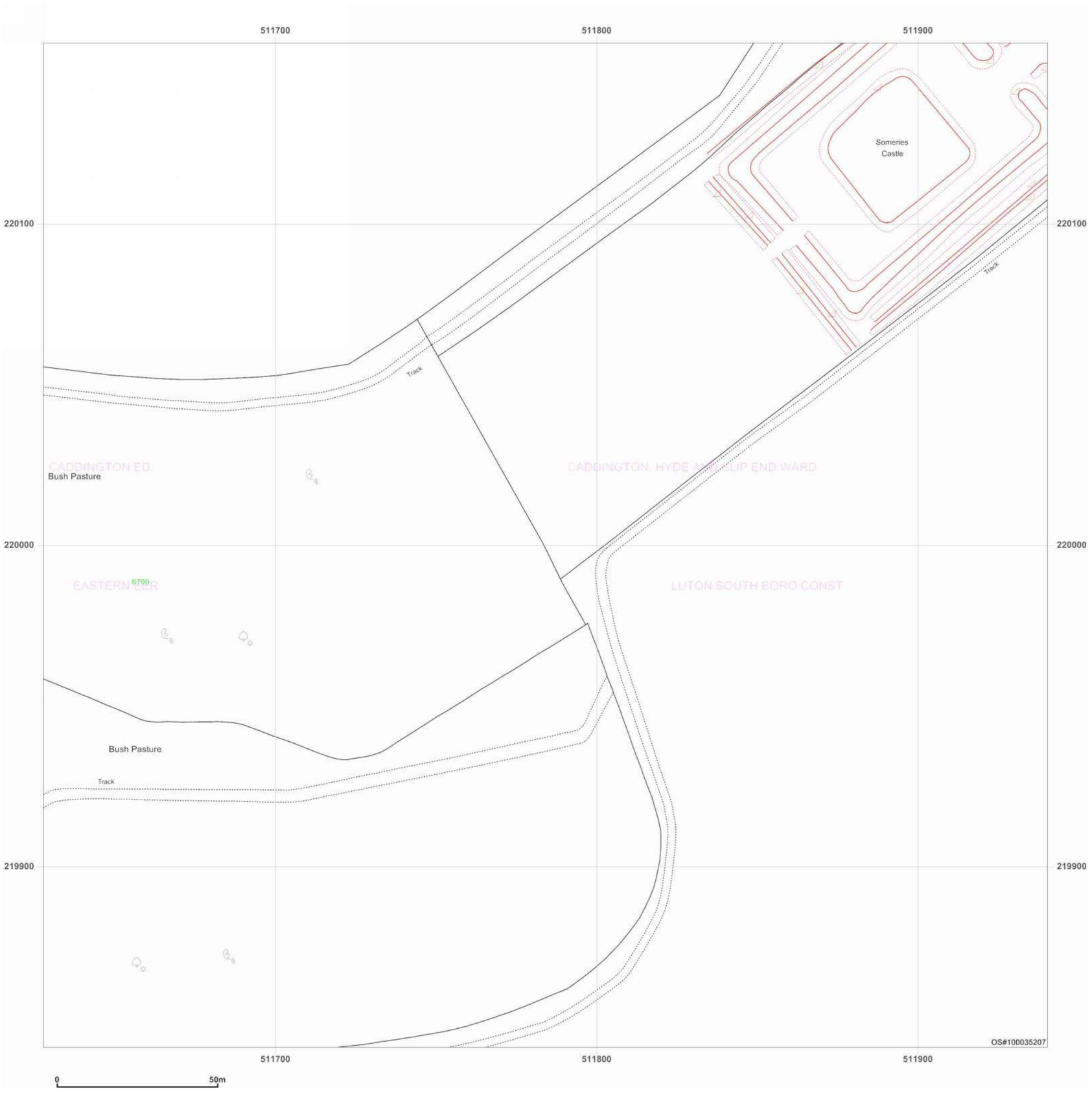


Groundsure INSIGHTS

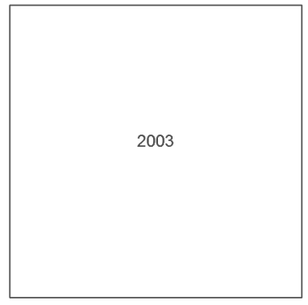
Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_1
Grid Ref: 511784, 220000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S



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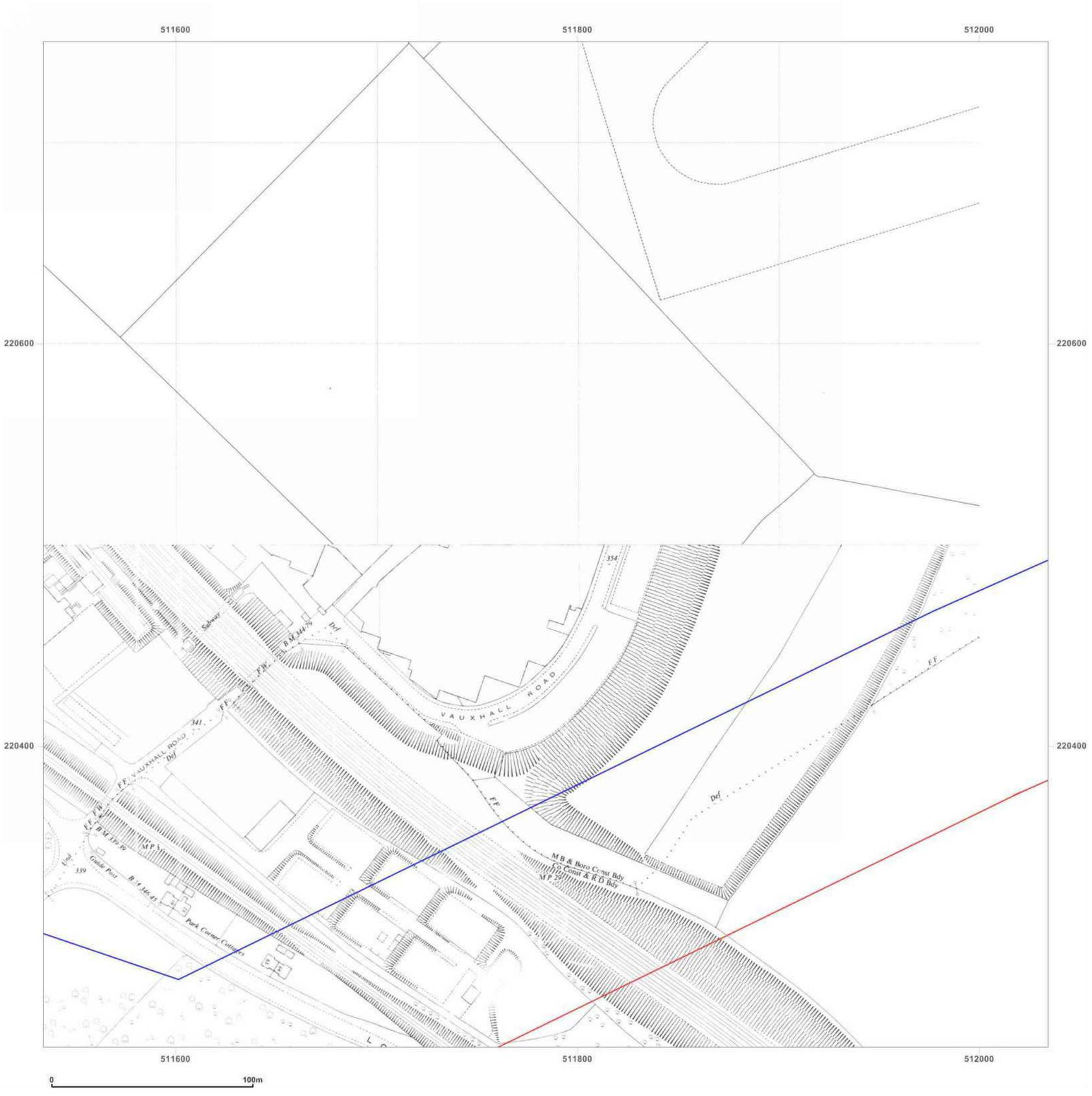

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_2
Grid Ref: 511784, 220500

Map Name: National Grid
Map date: **1962**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1958

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

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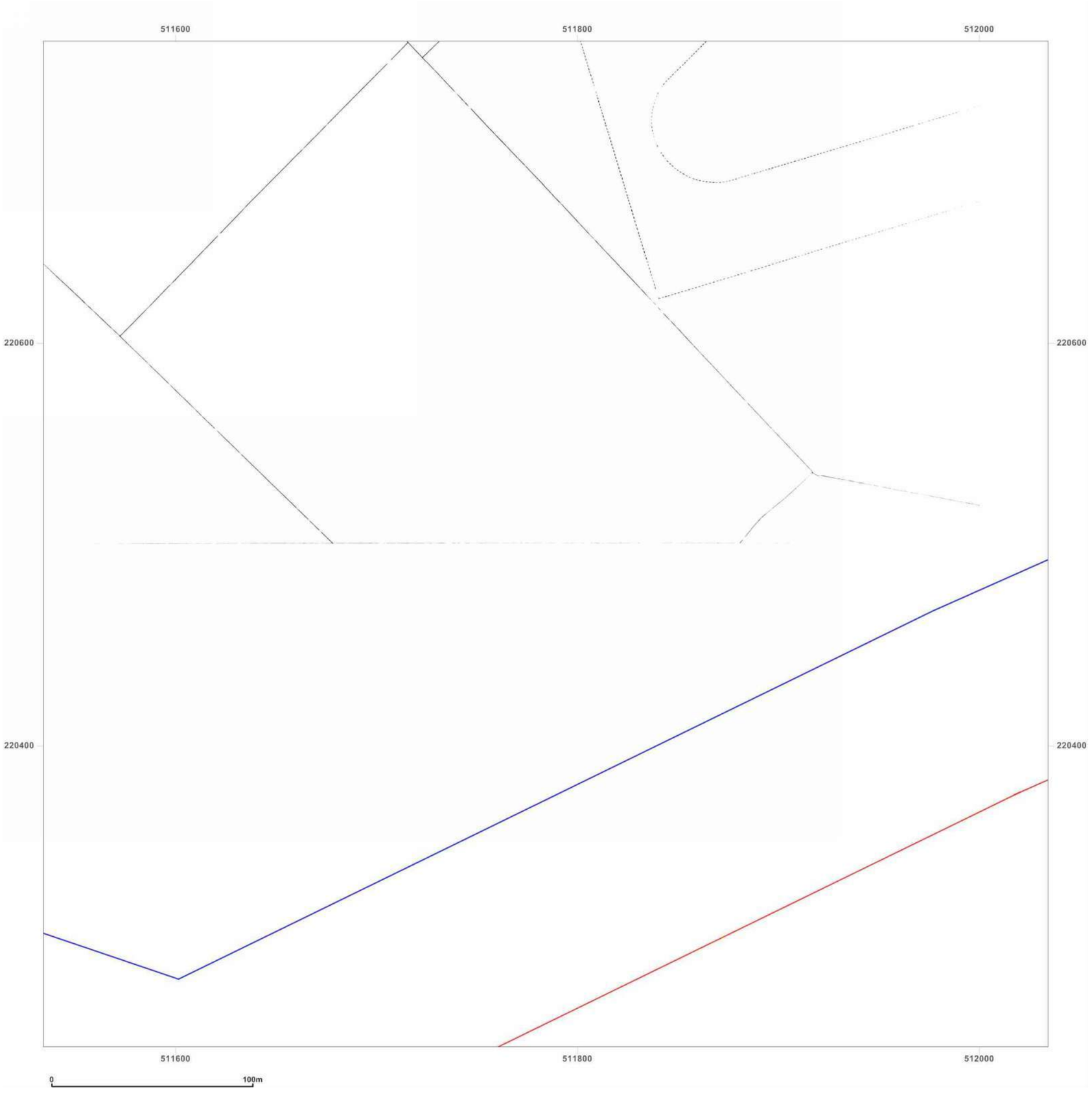


Groundsure INSIGHTS

Site Details:

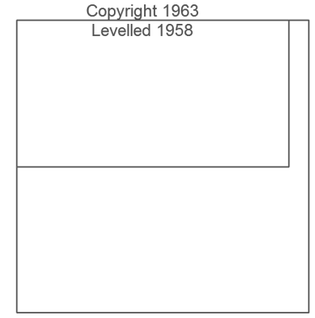
Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_2
Grid Ref: 511784, 220500

Map Name: National Grid
Map date: **1963**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1963
Levelled 1958



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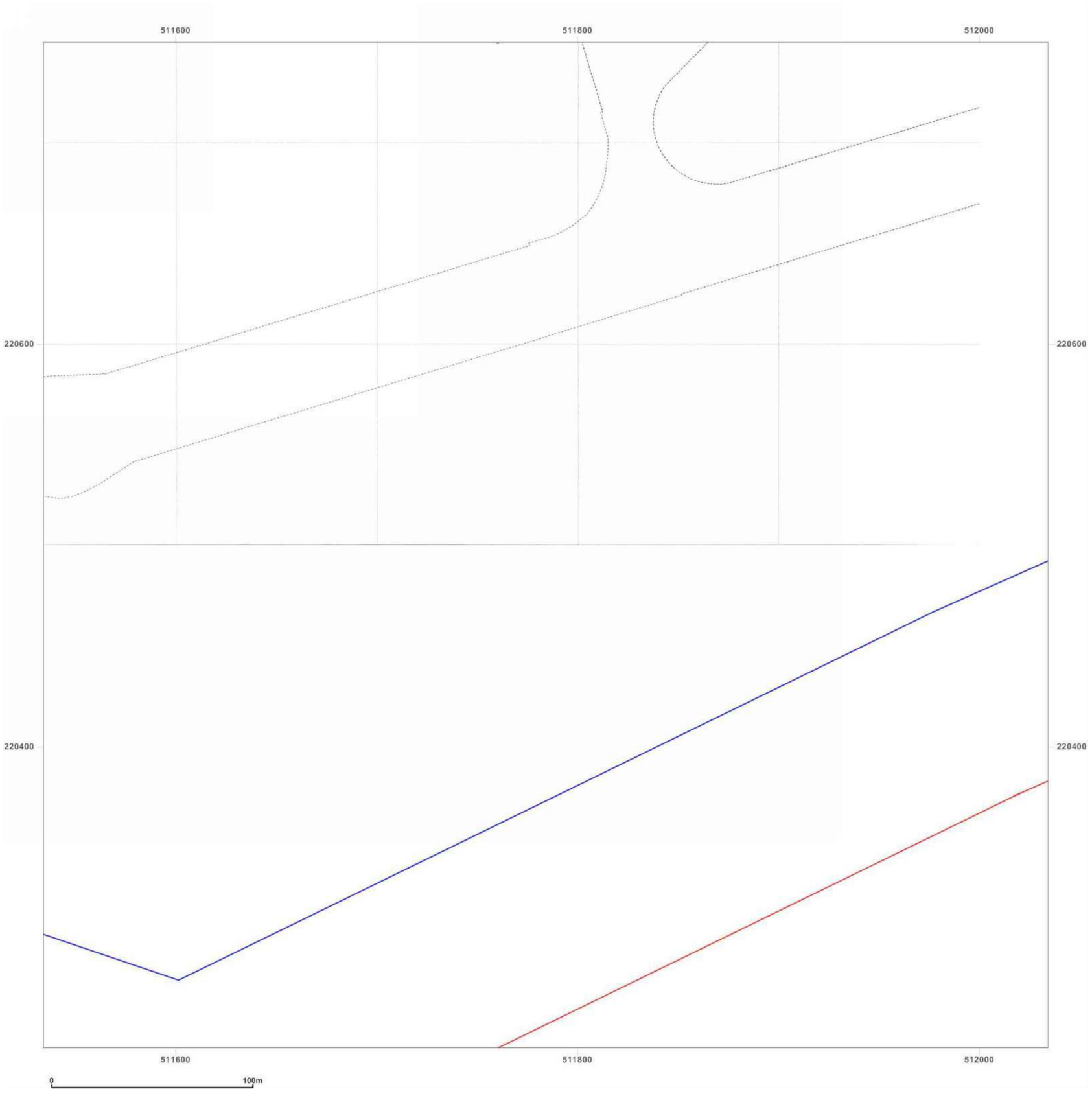


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_2
Grid Ref: 511784, 220500

Map Name: National Grid

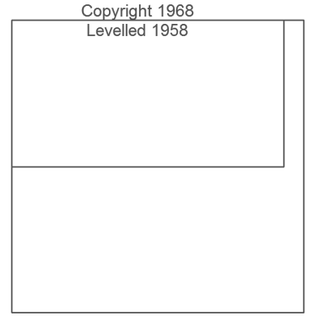
Map date: **1968**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1962
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958



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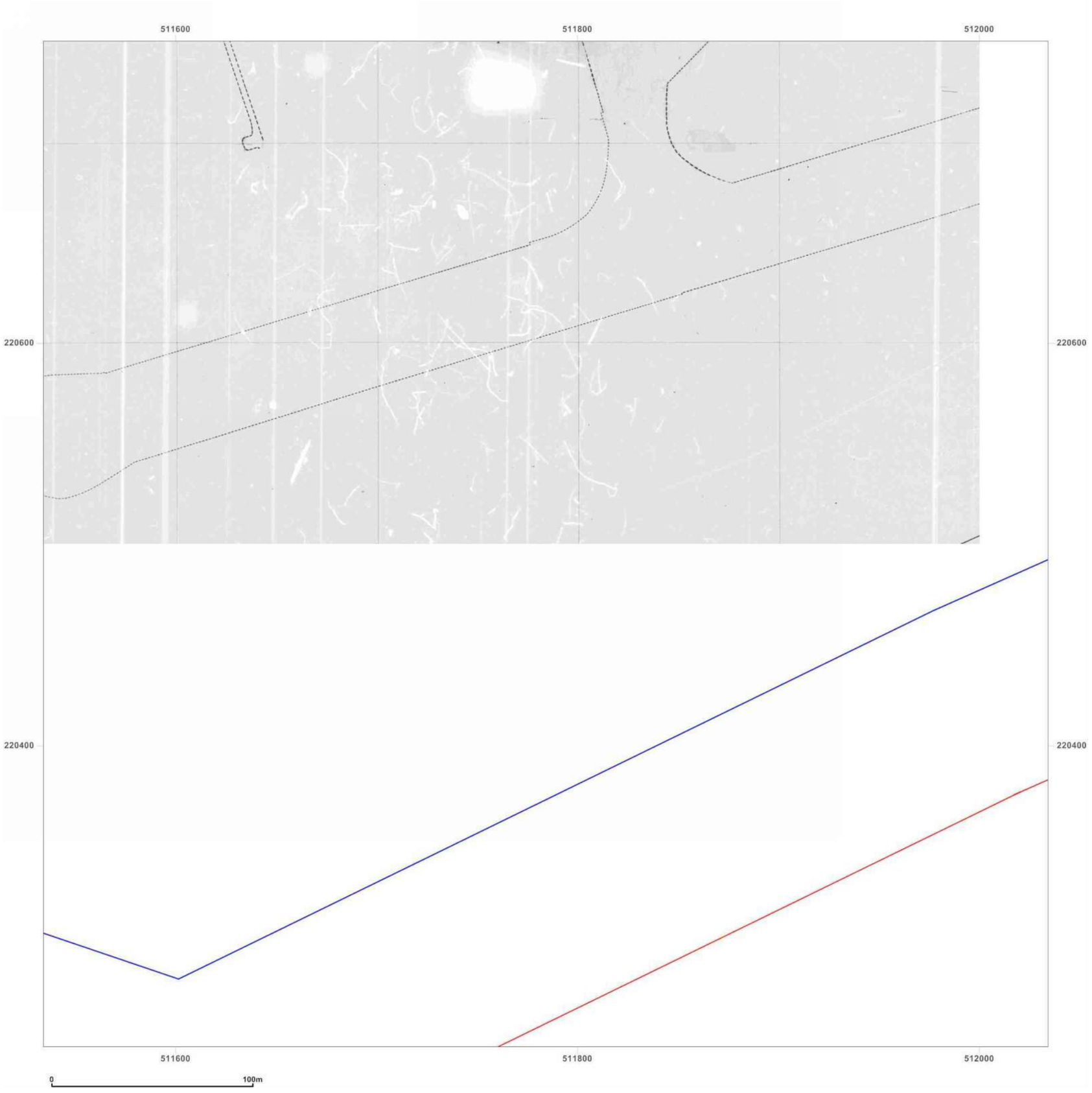

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_2
Grid Ref: 511784, 220500

Map Name: National Grid

Map date: **1973**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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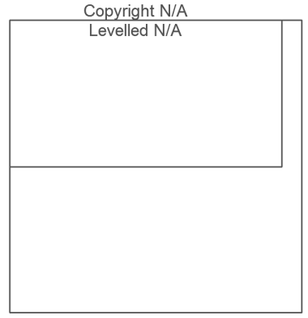
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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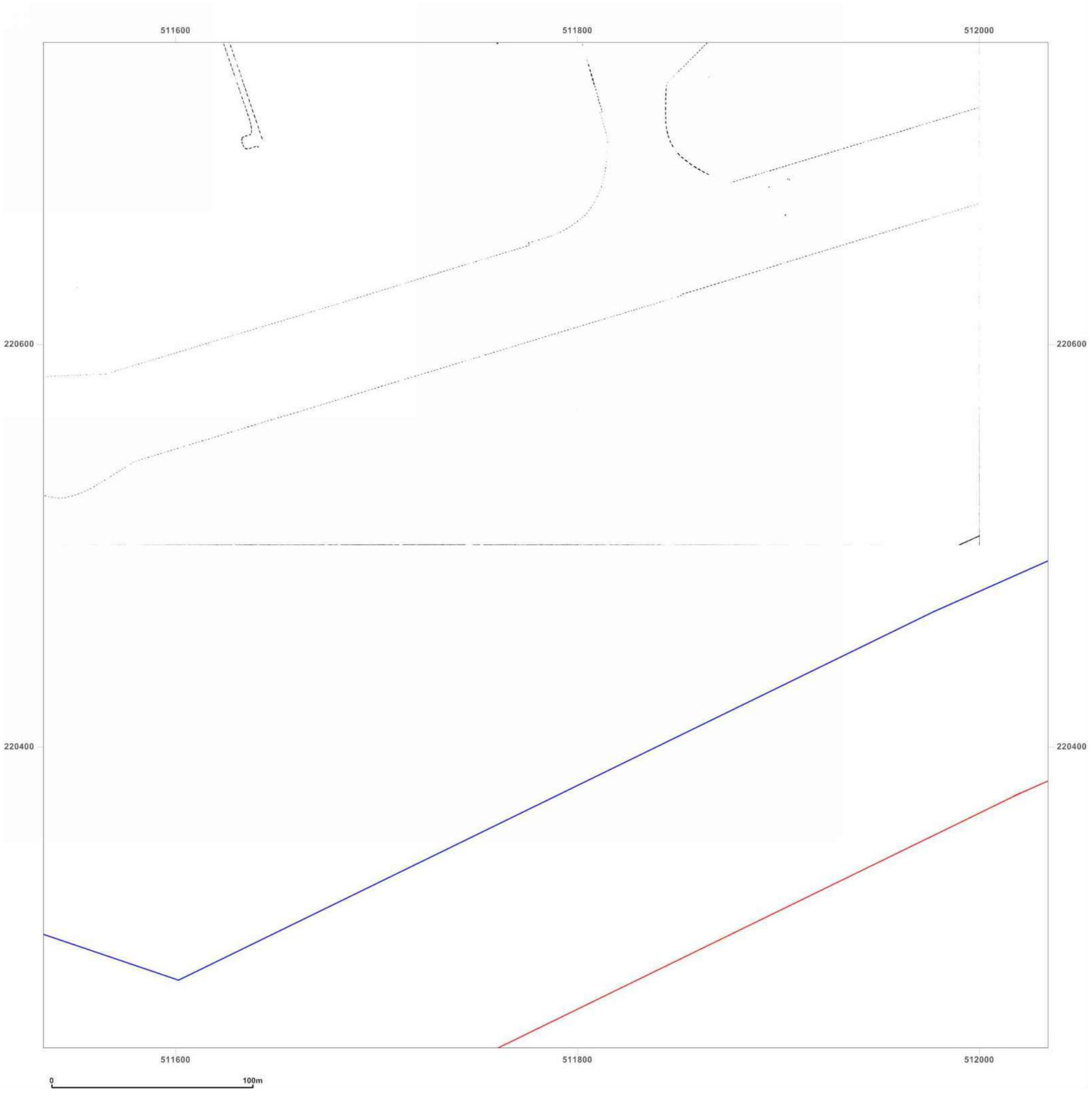

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_2
Grid Ref: 511784, 220500

Map Name: National Grid
Map date: **1975**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
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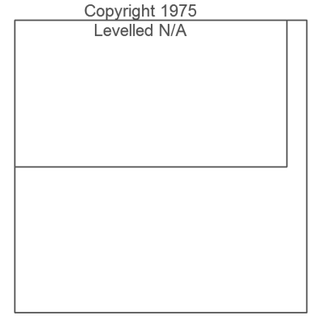
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A



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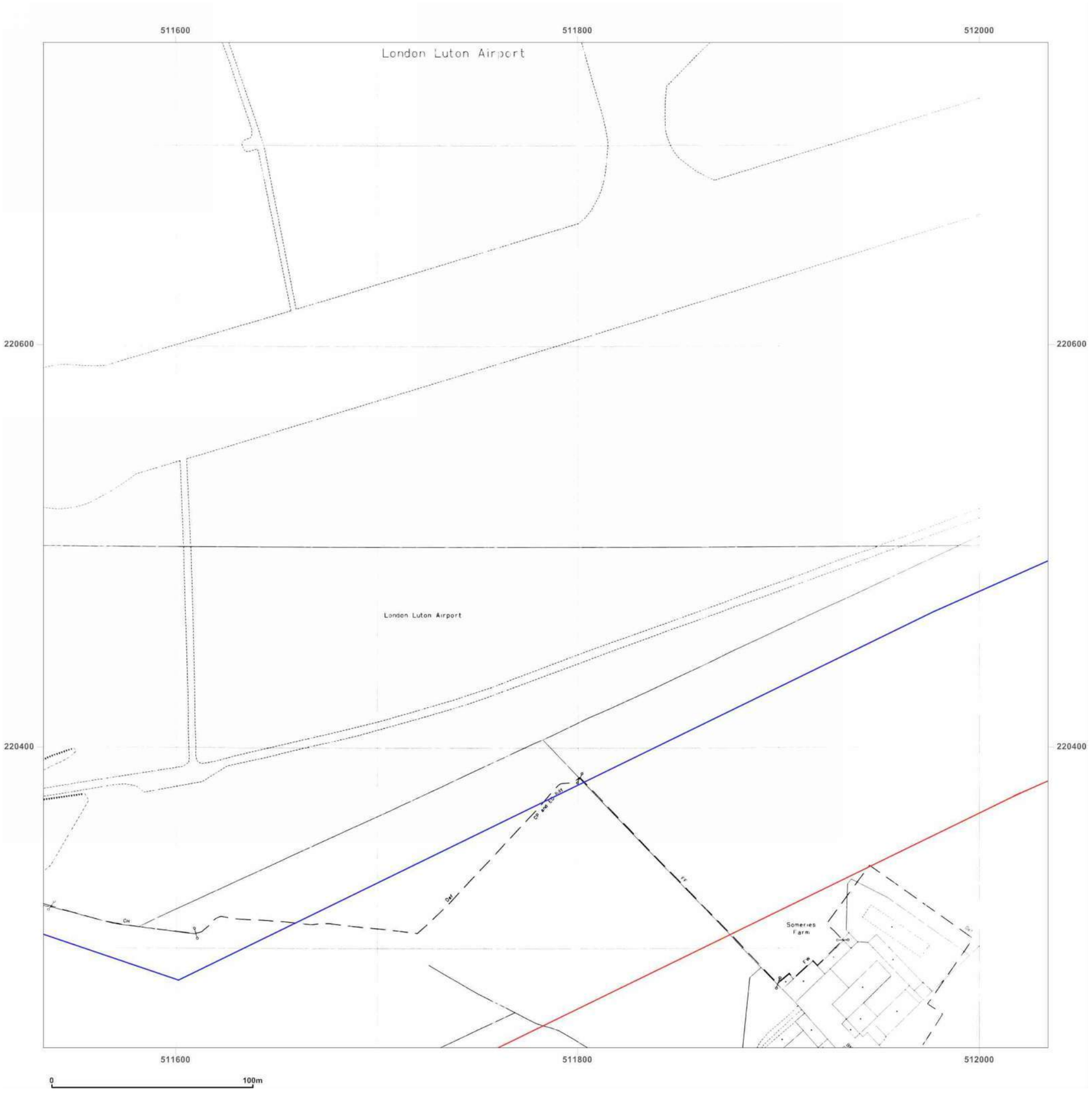

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_2
Grid Ref: 511784, 220500

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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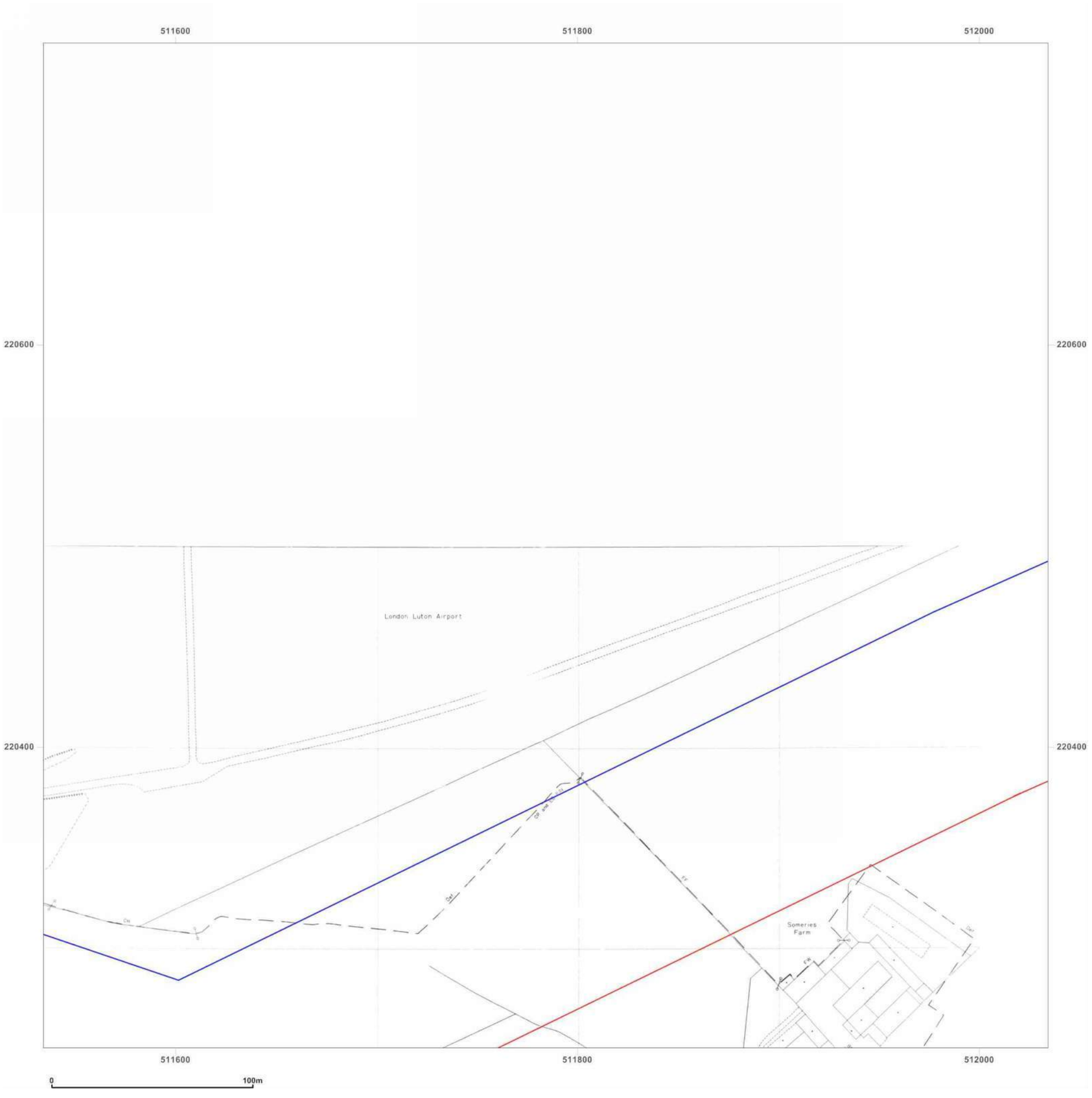

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_2
Grid Ref: 511784, 220500

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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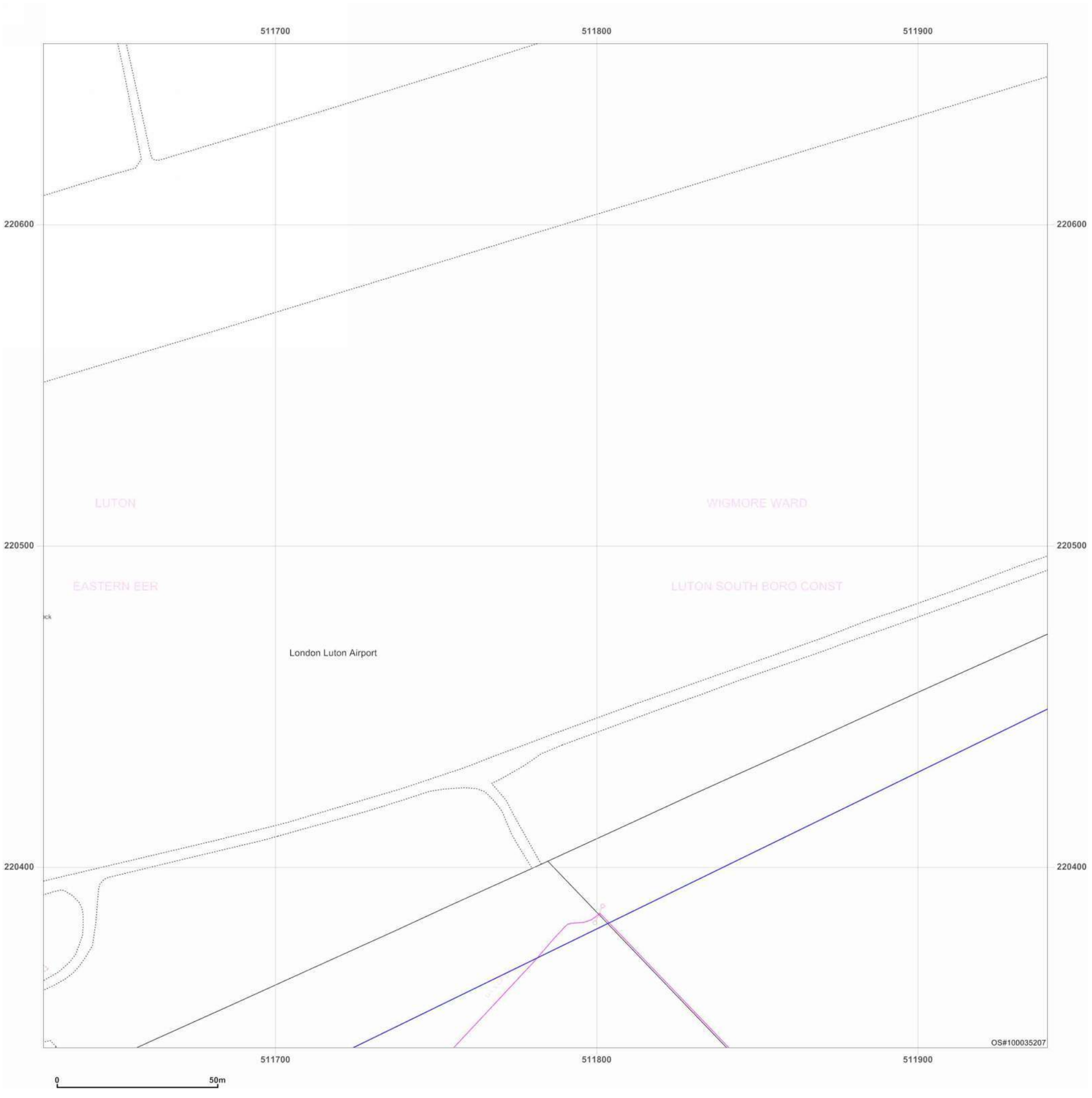

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_2
Grid Ref: 511784, 220500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
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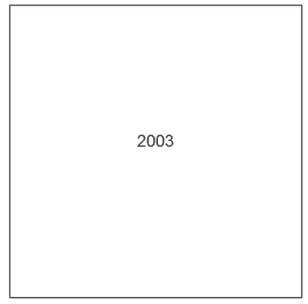

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_3
Grid Ref: 511784, 221000

Map Name: National Grid

Map date: **1962-1963**

Scale: 1:1,250

Printed at: 1:2,000

N
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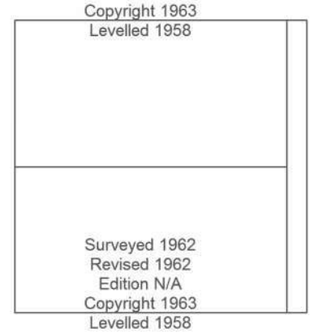
Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1958



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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_3
Grid Ref: 511784, 221000

Map Name: National Grid

Map date: **1963-1968**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed 1962
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

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Revised N/A
Edition N/A
Copyright 1963
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_3
Grid Ref: 511784, 221000

Map Name: National Grid

Map date: **1968-1973**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

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Revised 1973
Edition N/A
Copyright 1973
Levelled 1958

Surveyed 1962
Revised 1967
Edition N/A
Copyright 1968
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_3
Grid Ref: 511784, 221000

Map Name: National Grid

Map date: **1973**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

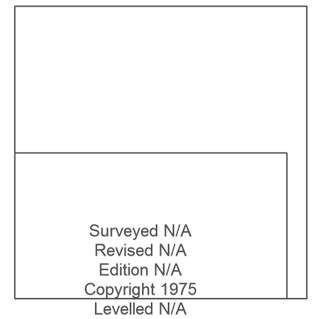
Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_3
Grid Ref: 511784, 221000

Map Name: National Grid
Map date: **1975**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S



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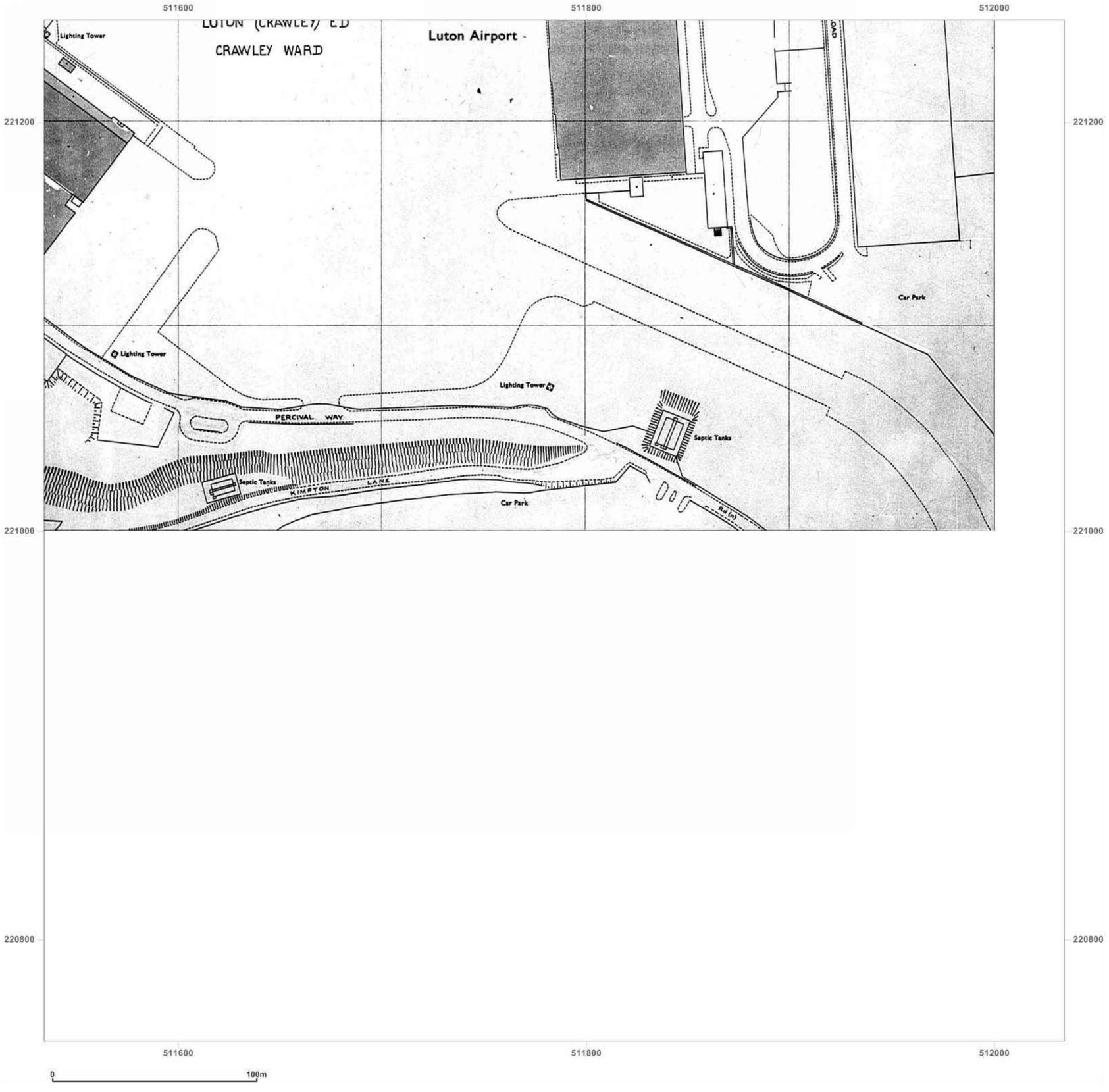

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_3
Grid Ref: 511784, 221000

Map Name: National Grid

Map date: **1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
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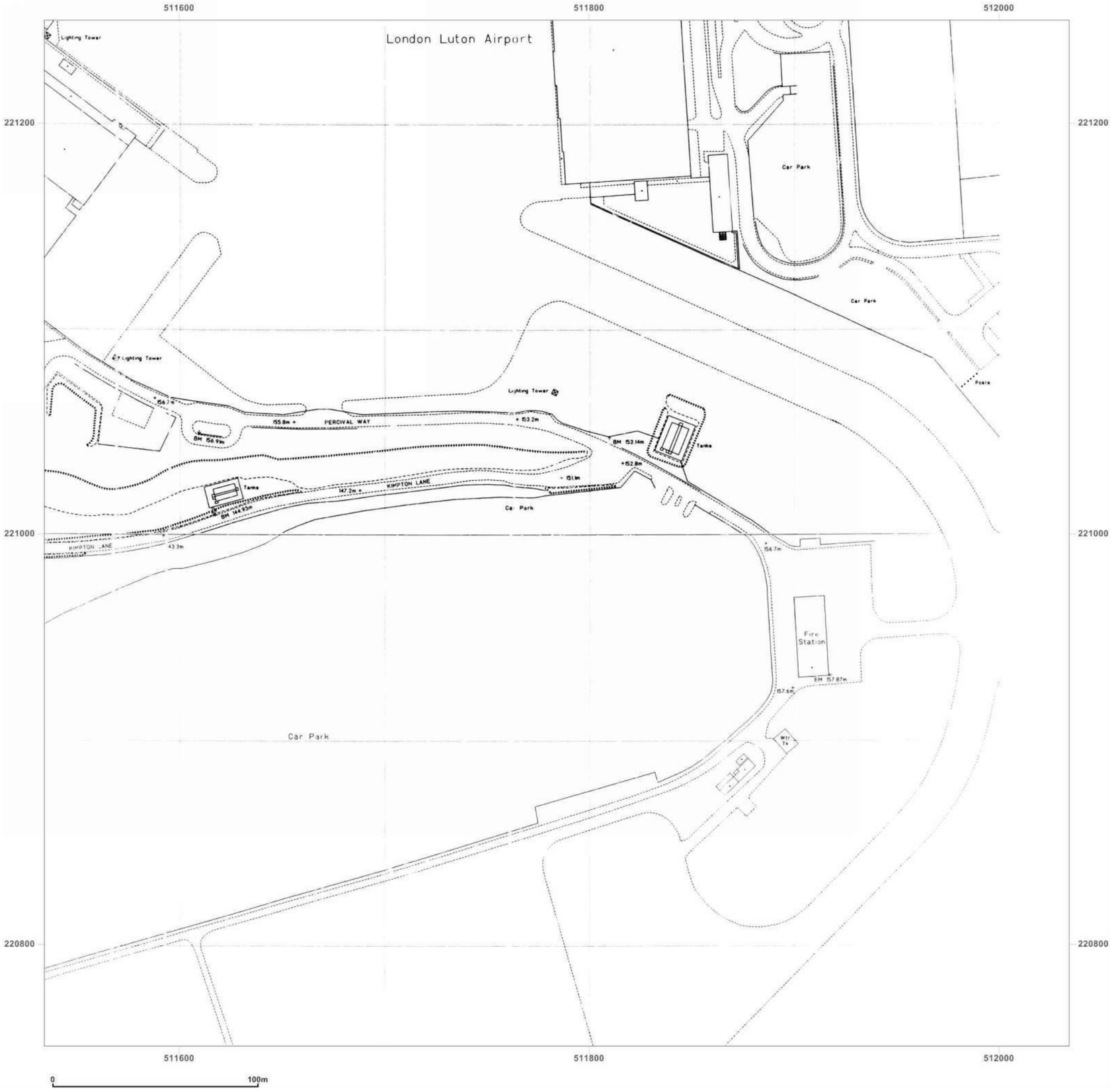

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_3
Grid Ref: 511784, 221000

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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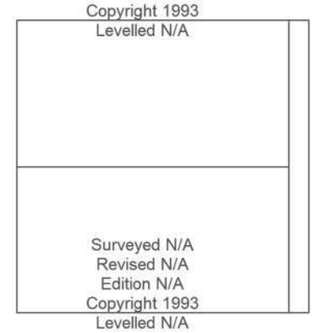
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_3
Grid Ref: 511784, 221000

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
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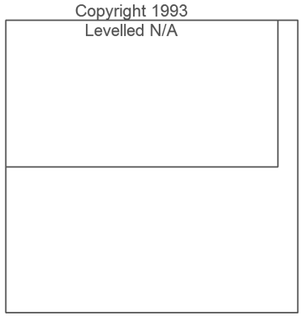
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_3
Grid Ref: 511784, 221000

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Map legend available at:
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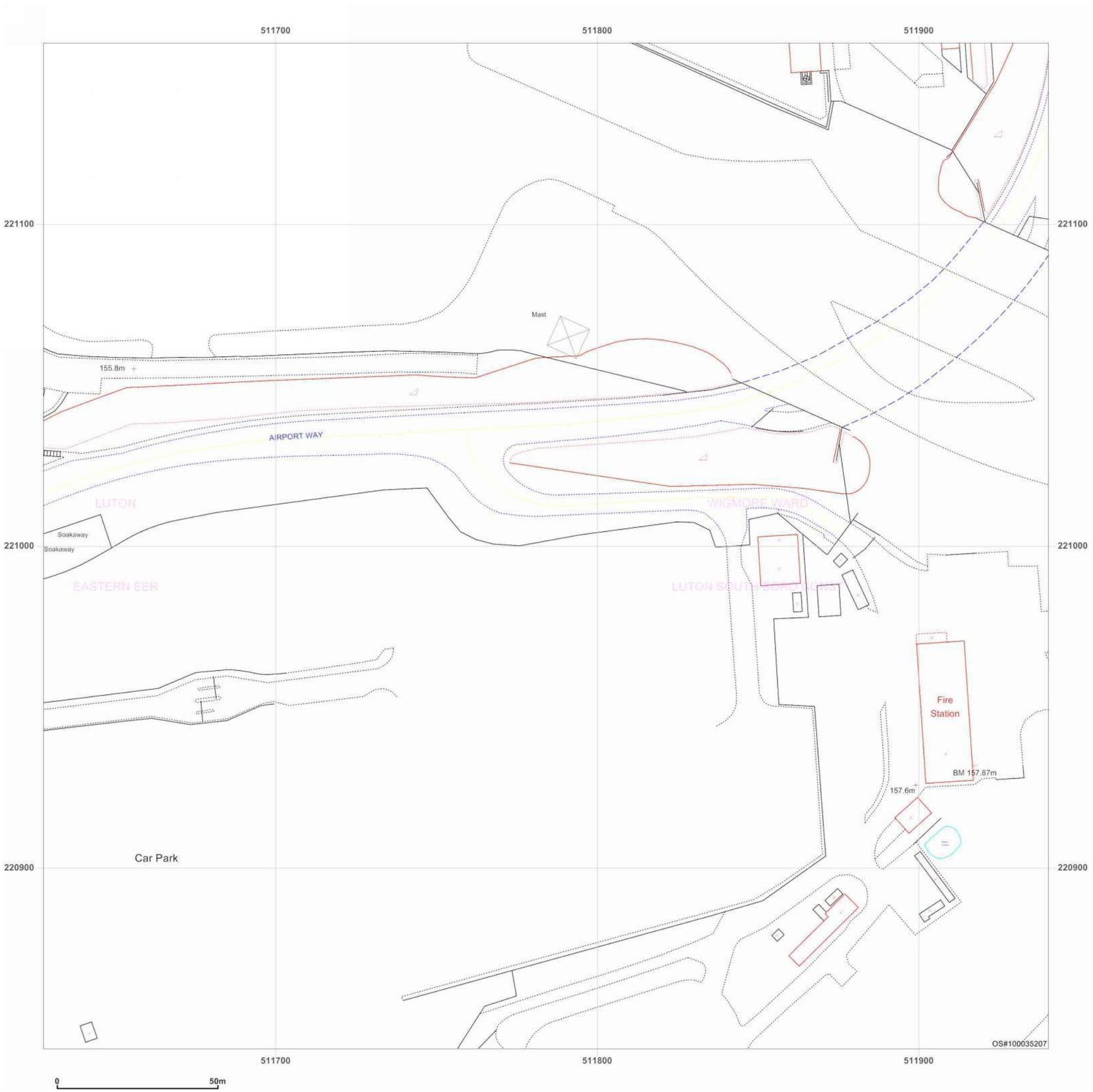


Groundsure INSIGHTS

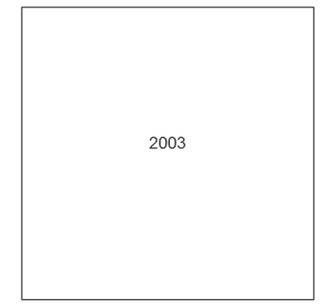
Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_3
Grid Ref: 511784, 221000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S



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Production date: 20 November 2020

Map legend available at:
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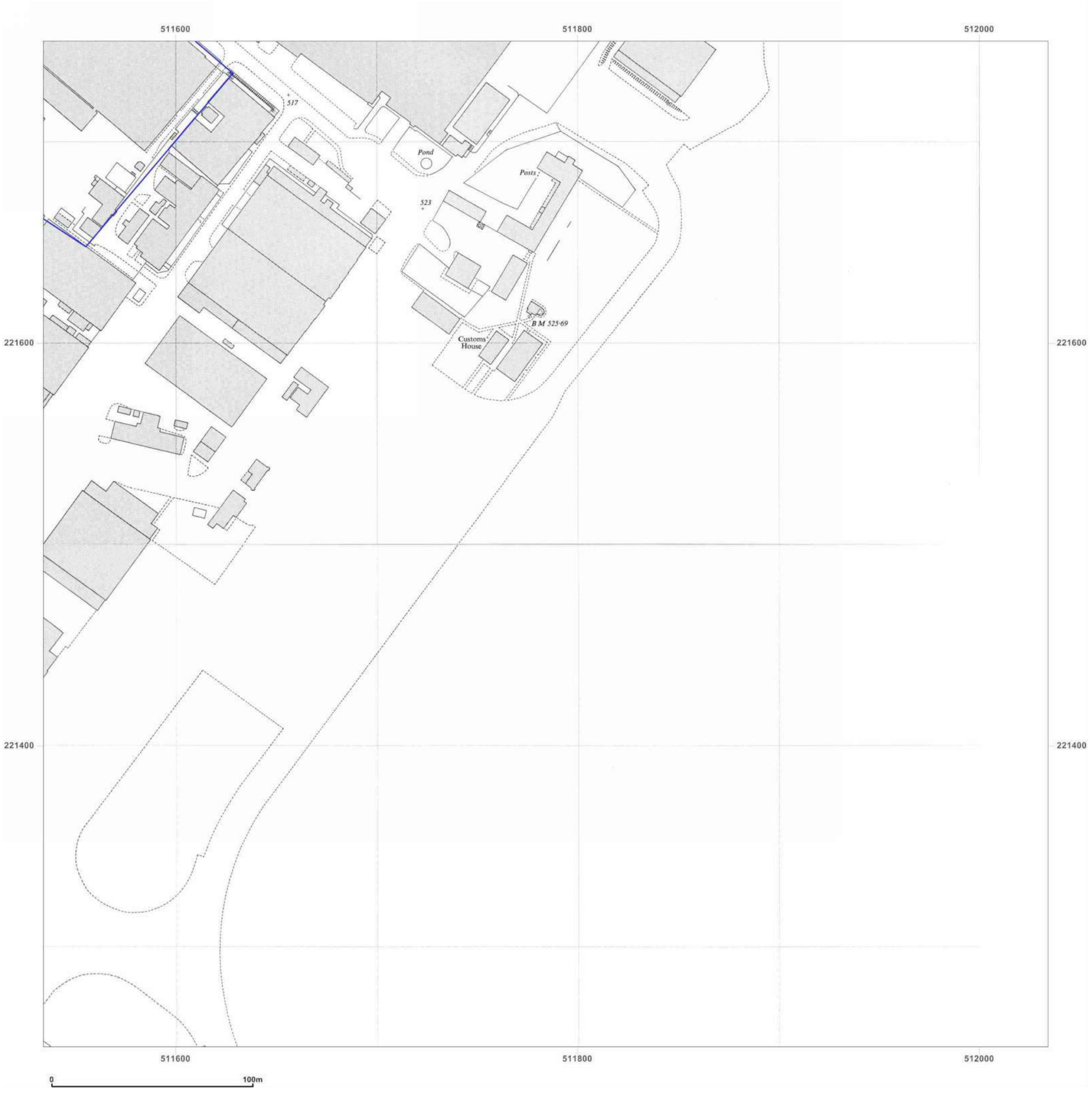

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

Map date: **1962-1963**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

Map date: **1967-1968**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

Surveyed 1962
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

Map date: **1968**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1968
Levelled N/A

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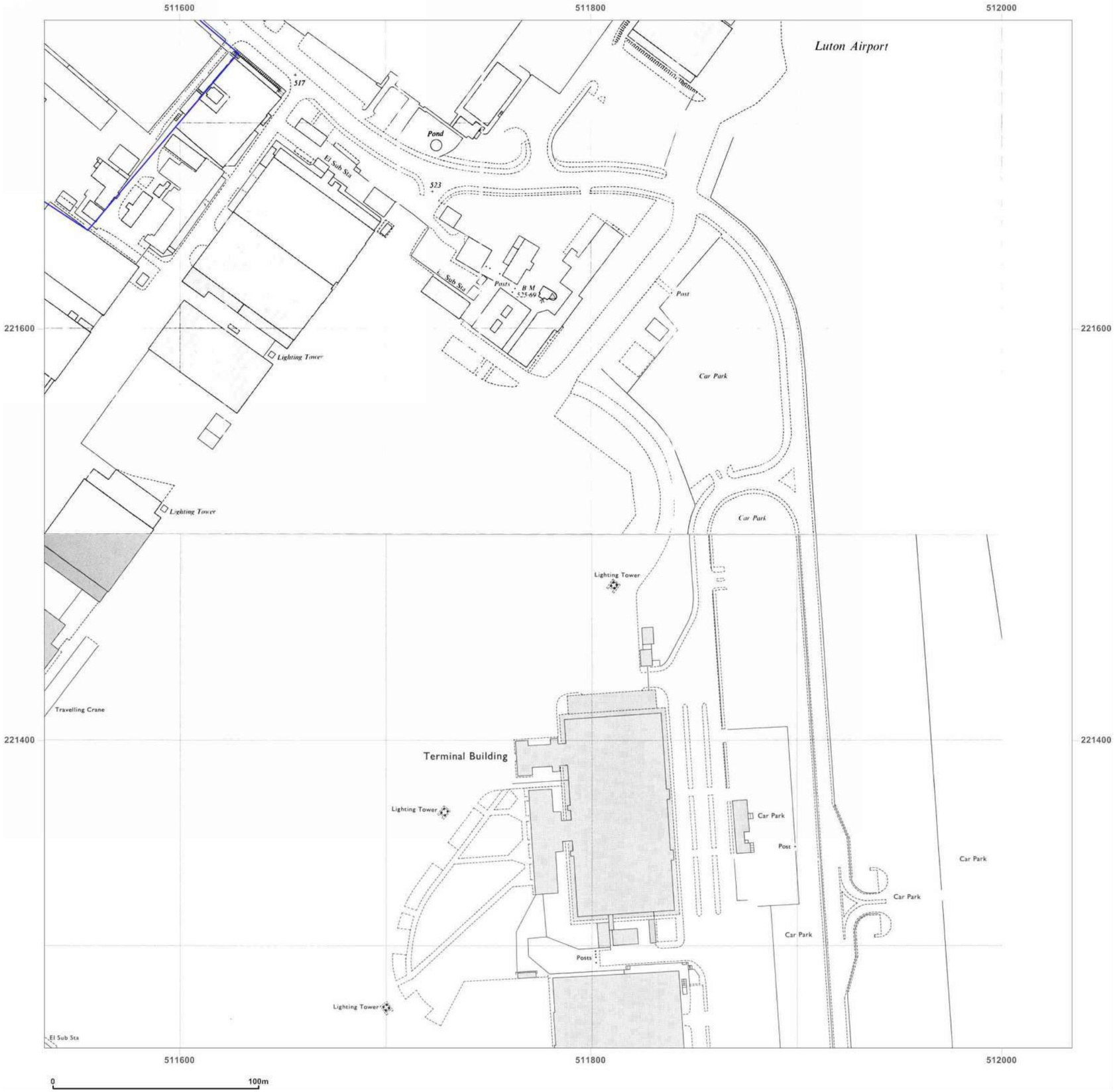

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

Map date: **1968-1973**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

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

Surveyed 1962
Revised 1973
Edition N/A
Copyright 1973
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

Map date: **1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
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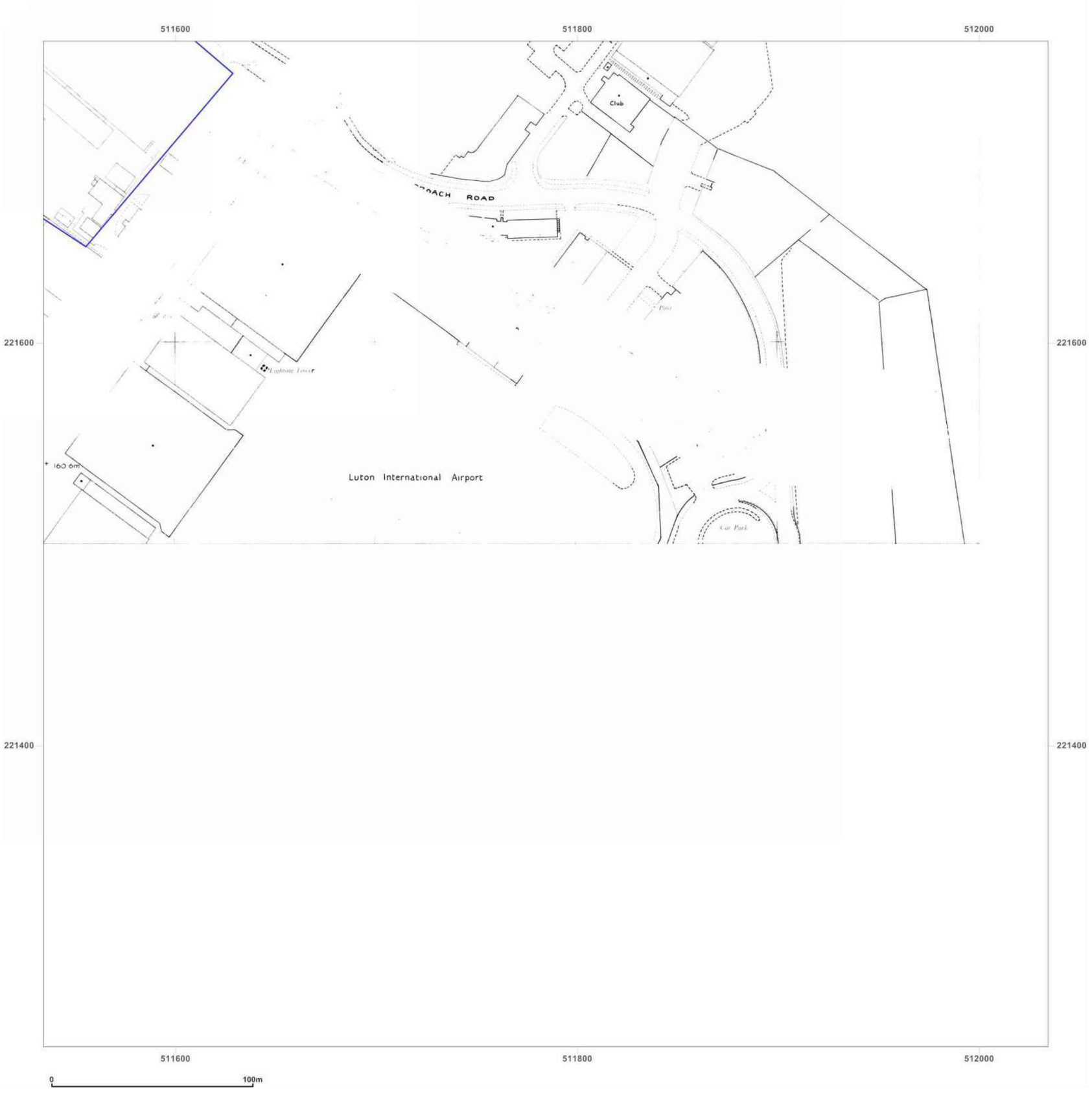


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

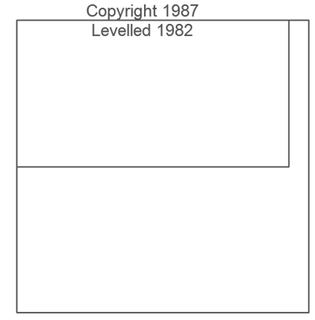
Map date: **1987**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982



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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

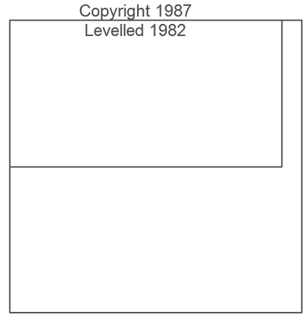
Map date: **1987**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982



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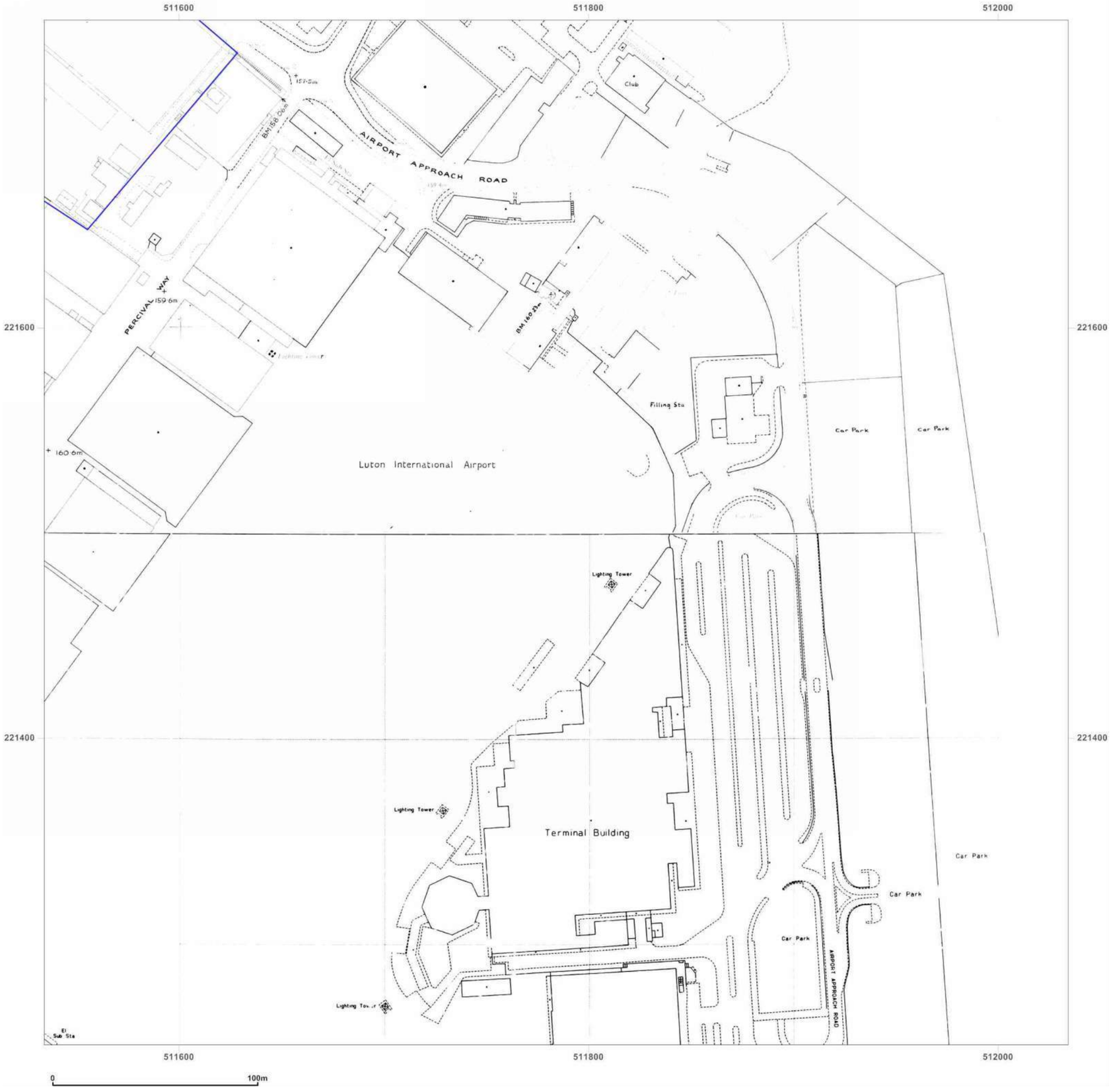

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

Map date: **1991-1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1991
Levelled 1982

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
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Revised N/A
Edition N/A
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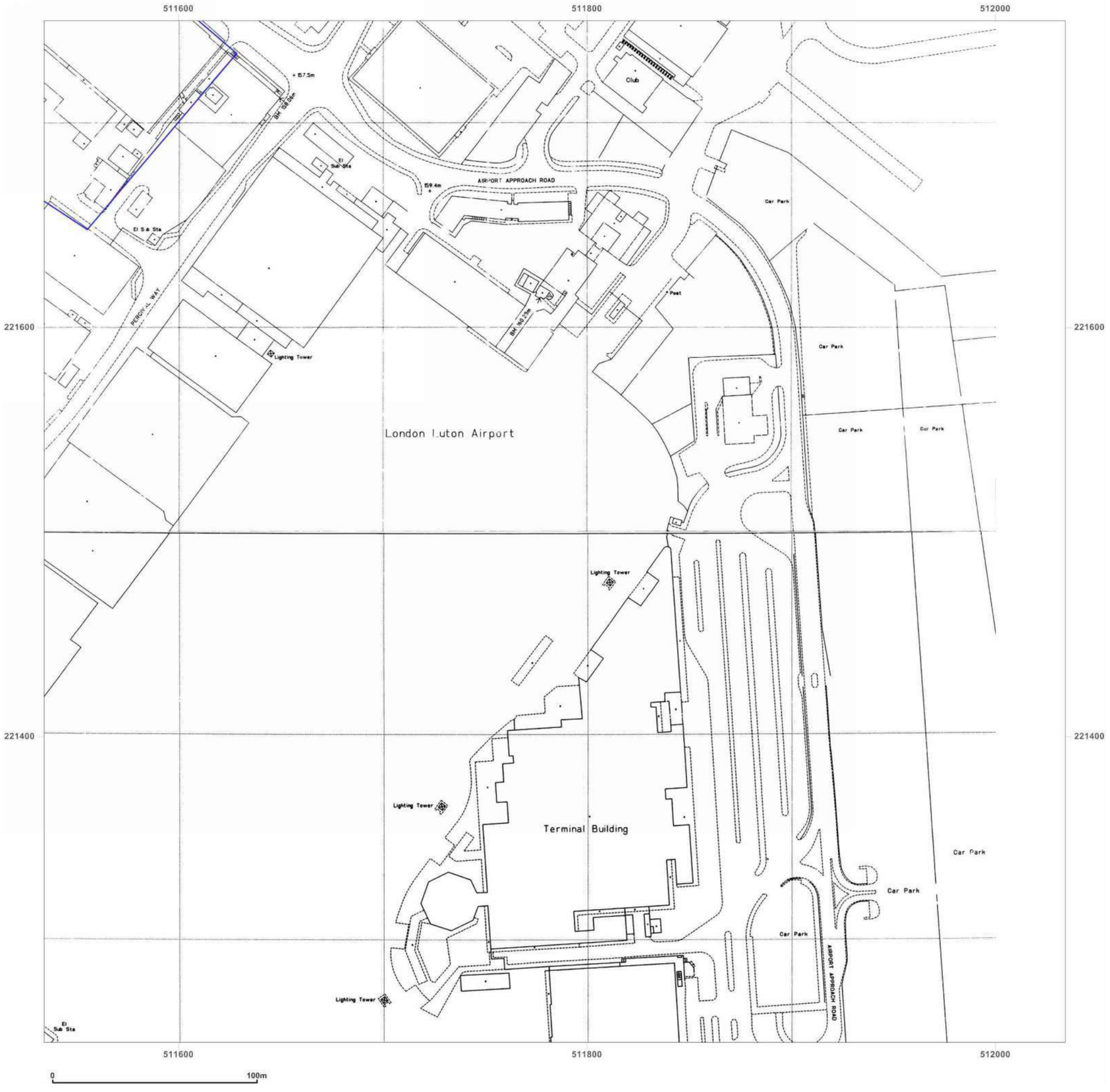

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_4
Grid Ref: 511784, 221500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
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2003

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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid

Map date: **1967**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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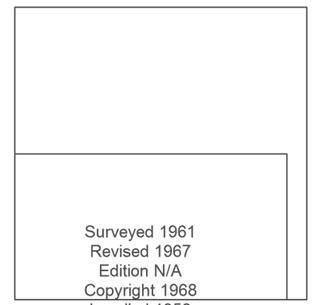

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid
Map date: **1968**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

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

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Production date: 20 November 2020

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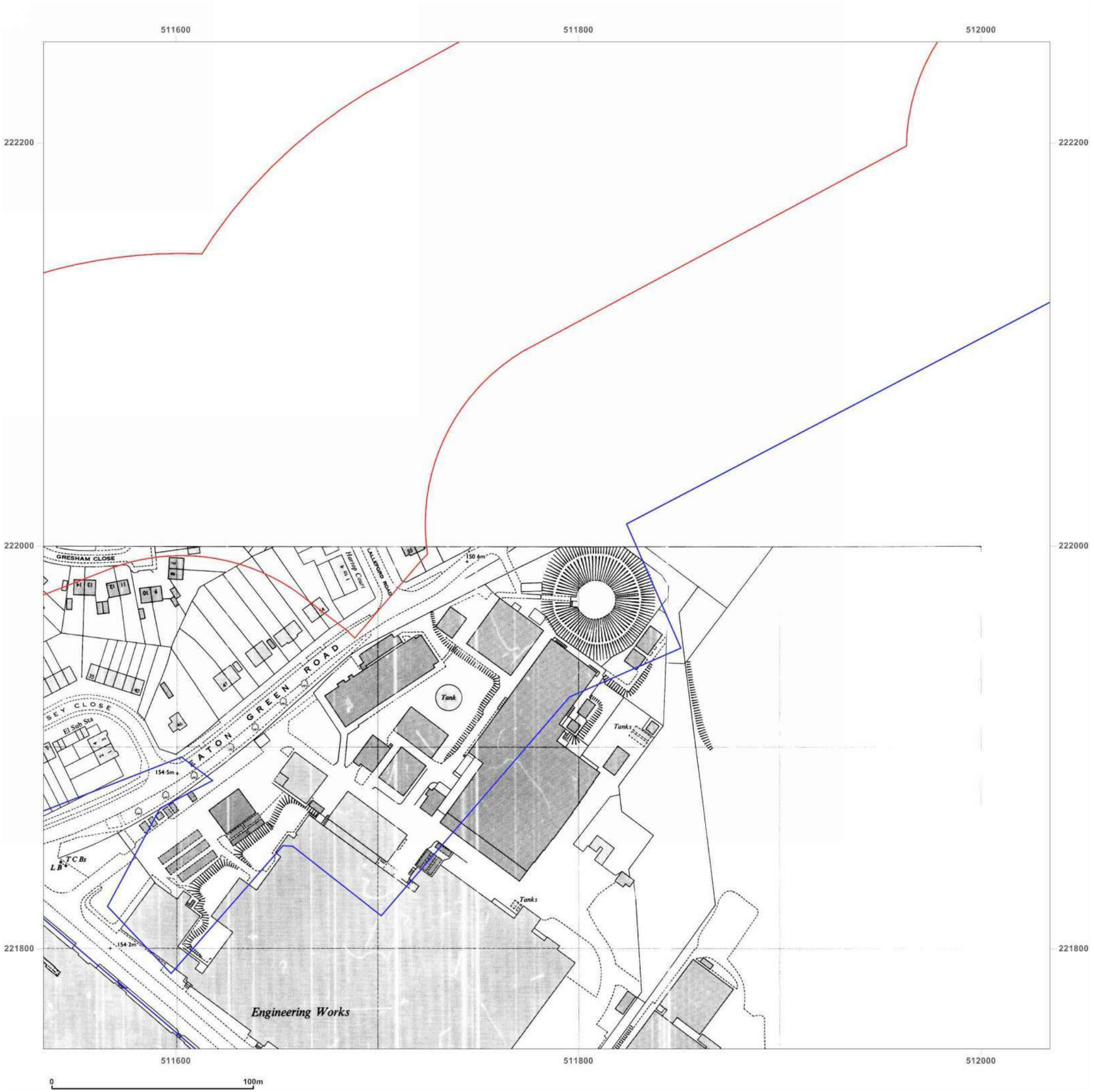

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid
Map date: **1968**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1968
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid

Map date: **1978-1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid

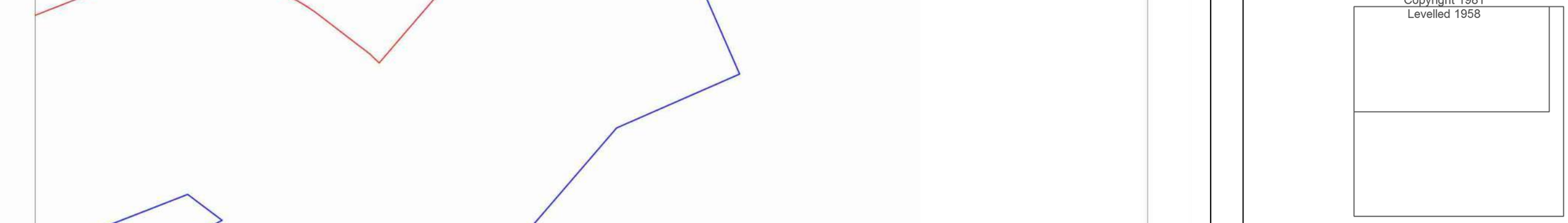
Map date: **1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958



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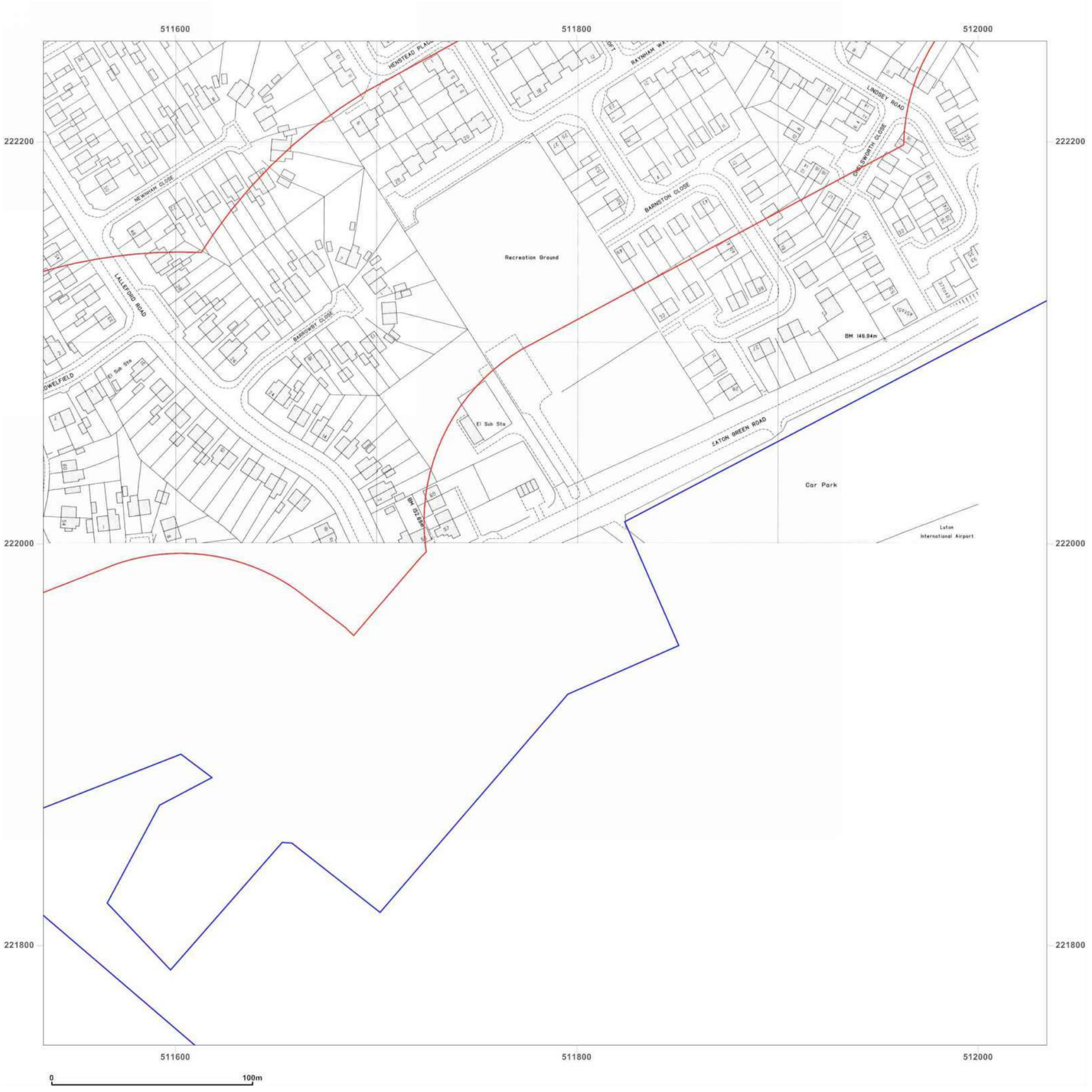

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid

Map date: **1985**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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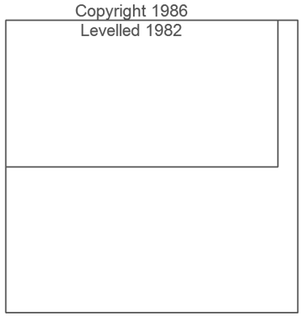
Surveyed 1961
Revised 1985
Edition N/A
Copyright 1986
Levelled 1982



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Production date: 20 November 2020

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid

Map date: **1982-1987**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1982
Levelled 1958

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid

Map date: **1982-1987**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1982
Levelled 1958

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982

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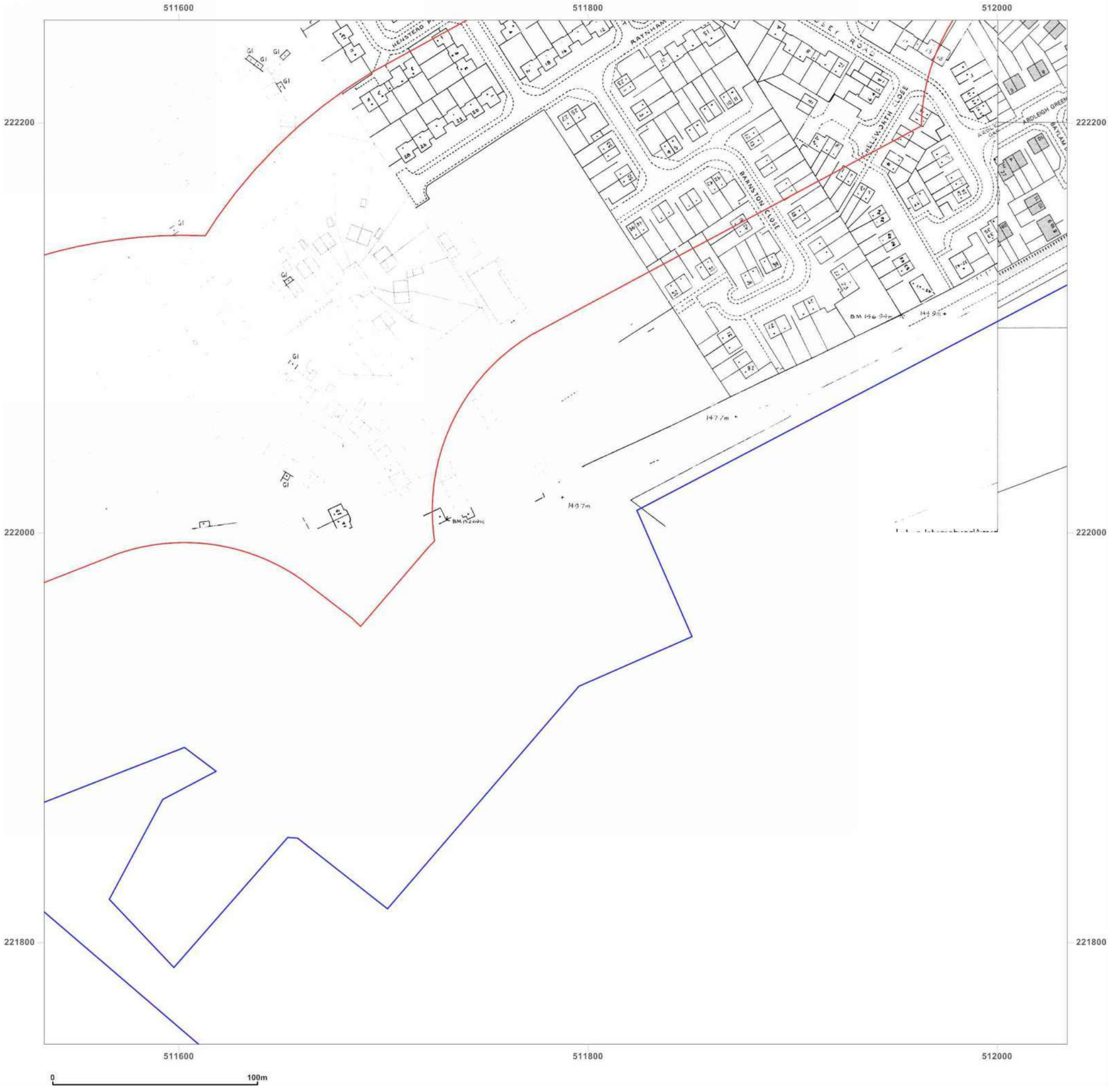

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid
Map date: **1984-1989**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

Surveyed N/A	Surveyed 1988
Revised N/A	Revised 1988
Edition N/A	Edition N/A
Copyright 1984	Copyright 1989
Levelled 1982	Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid

Map date: **1986-1991**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed 1981
Revised 1985
Edition N/A
Copyright 1988
Levelled 1982

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1991
Levelled 1982

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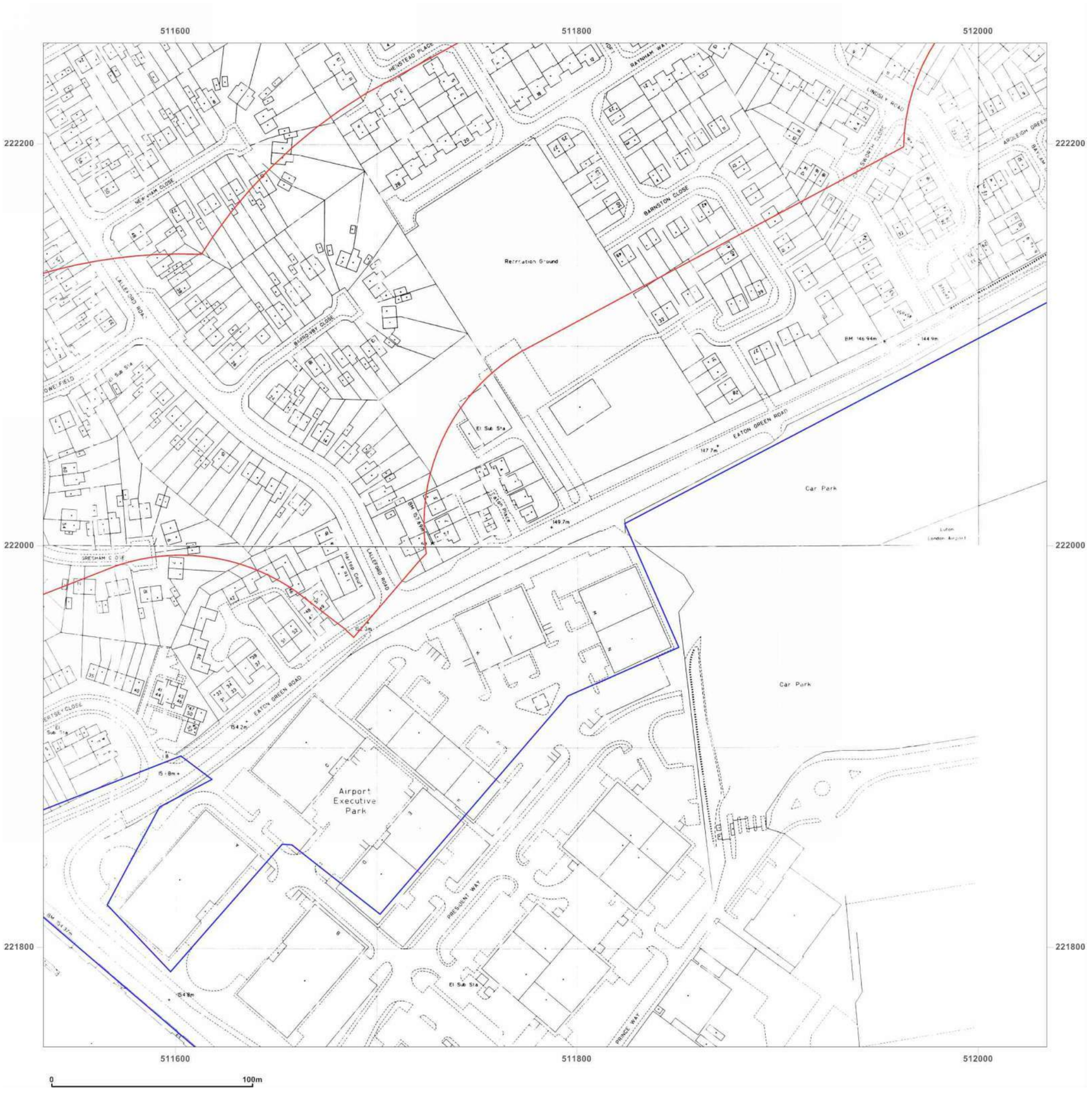

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid
Map date: **1993-1994**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: National Grid
Map date: **1994**
Scale: 1:1,250
Printed at: 1:2,000

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

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_5
Grid Ref: 511784, 222000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
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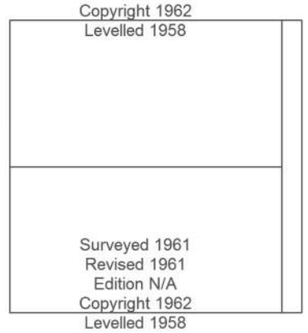
Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958



Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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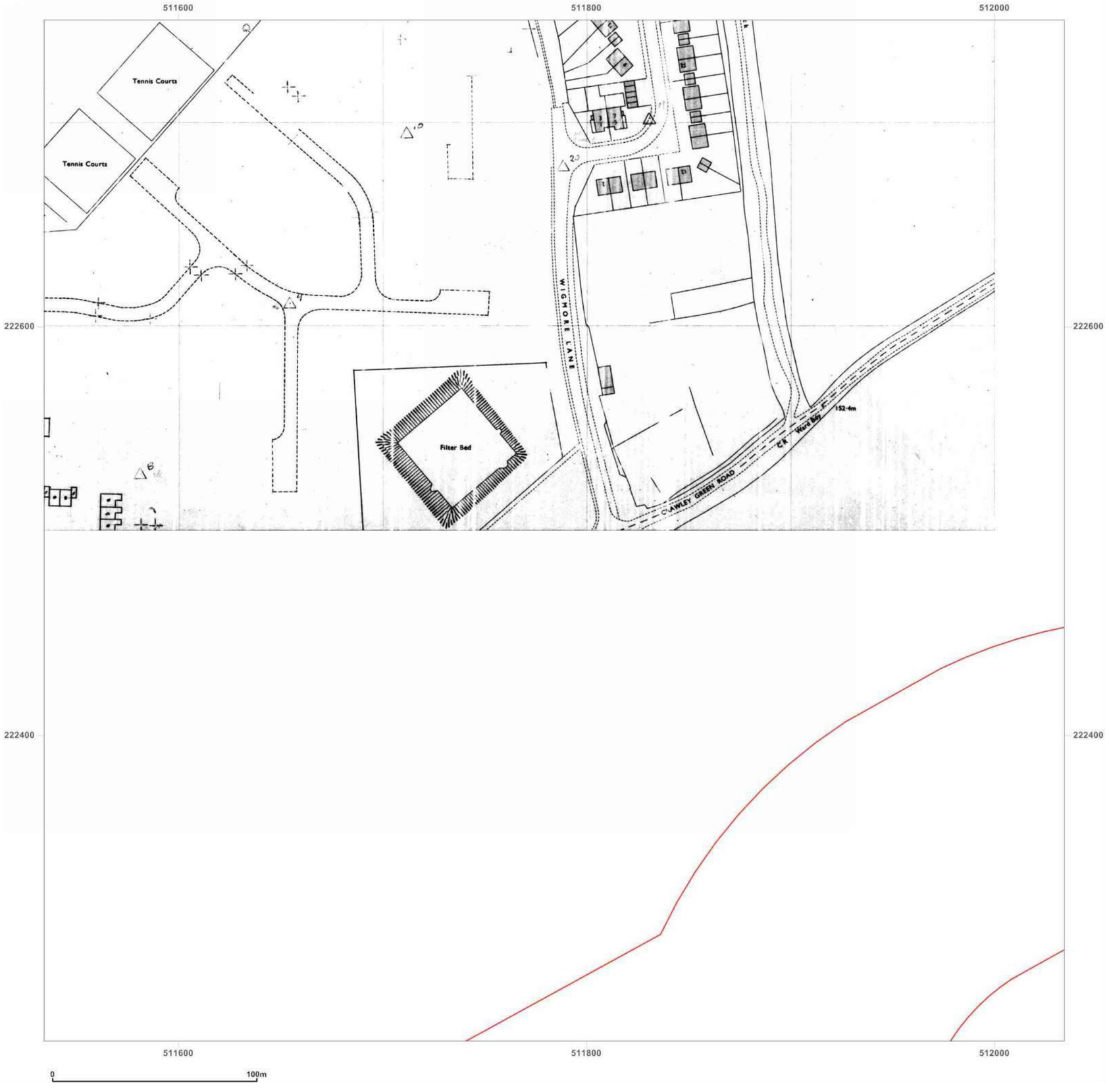

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid

Map date: **1974**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid

Map date: **1973-1978**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1973
Edition N/A
Copyright 1973
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid

Map date: **1977-1981**

Scale: 1:1,250

Printed at: 1:2,000

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

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Revised N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid

Map date: **1979-1982**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1961
Revised 1978
Edition N/A
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Revised N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid

Map date: **1982-1984**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1982
Revised 1984
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Copyright 1984
Levelled 1982

Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid
Map date: **1986**
Scale: 1:1,250
Printed at: 1:2,000

N
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Surveyed 1981
Revised 1985
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid

Map date: **1984-1989**

Scale: 1:1,250

Printed at: 1:2,000

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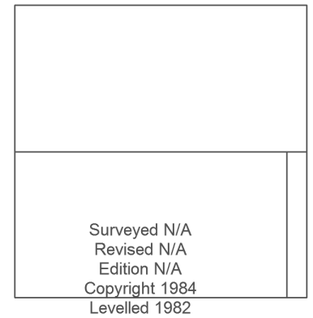

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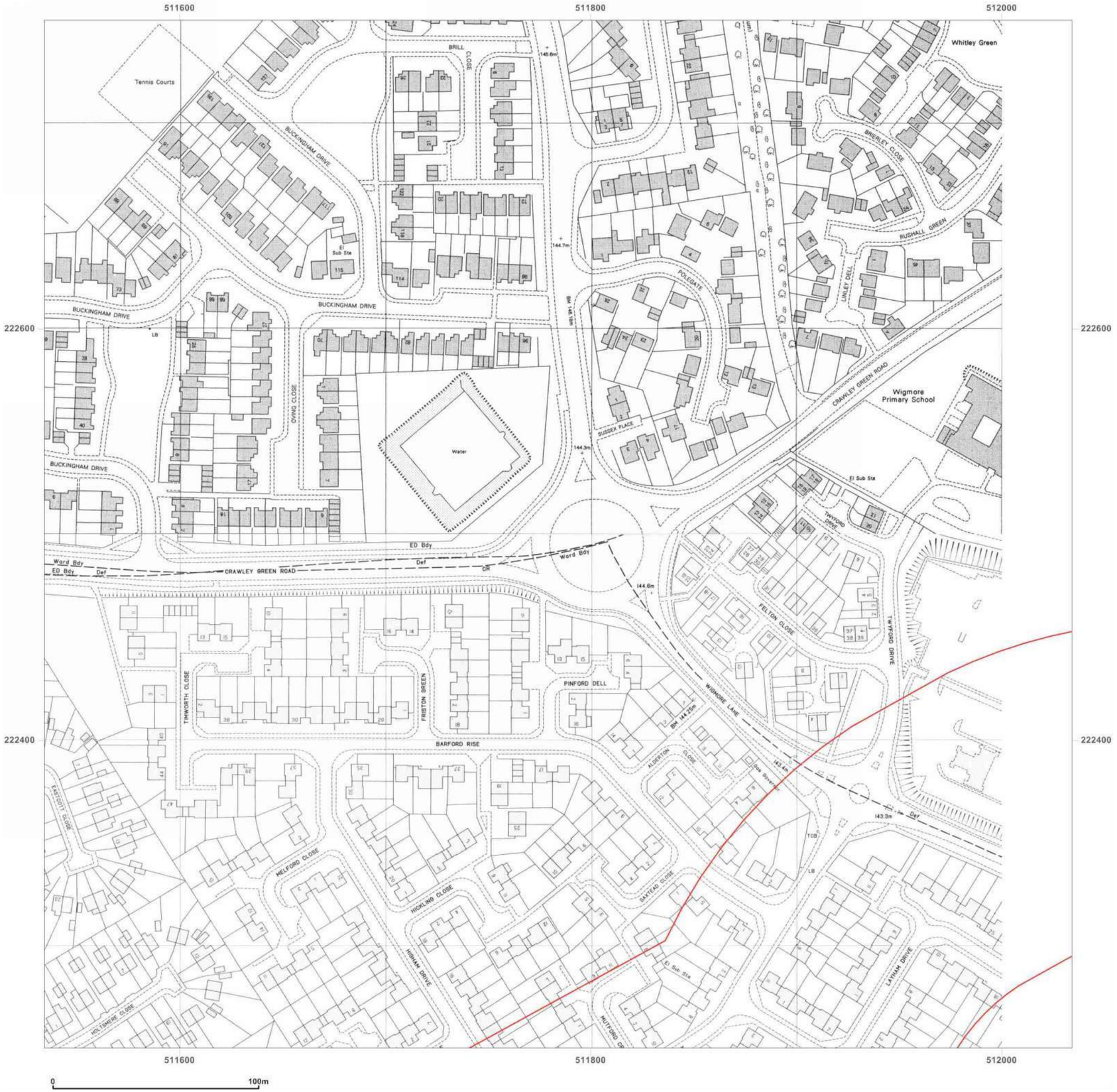

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid

Map date: **1985-1990**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1985
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Levelled 1982

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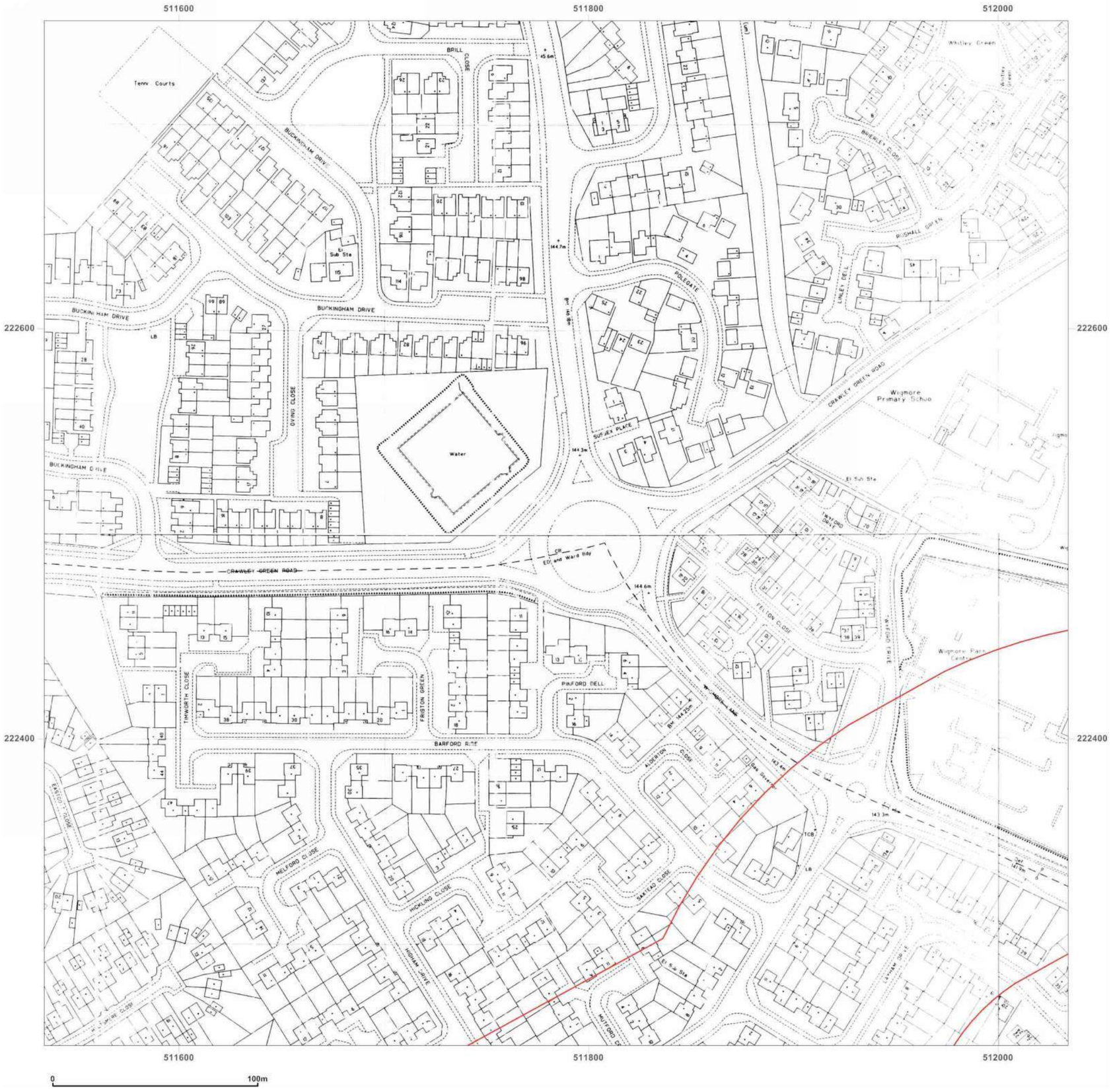

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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Surveyed N/A
Revised N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: National Grid
Map date: **1993-1994**
Scale: 1:1,250
Printed at: 1:2,000

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

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
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Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_3_6
Grid Ref: 511784, 222500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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Production date: 20 November 2020

Map legend available at:
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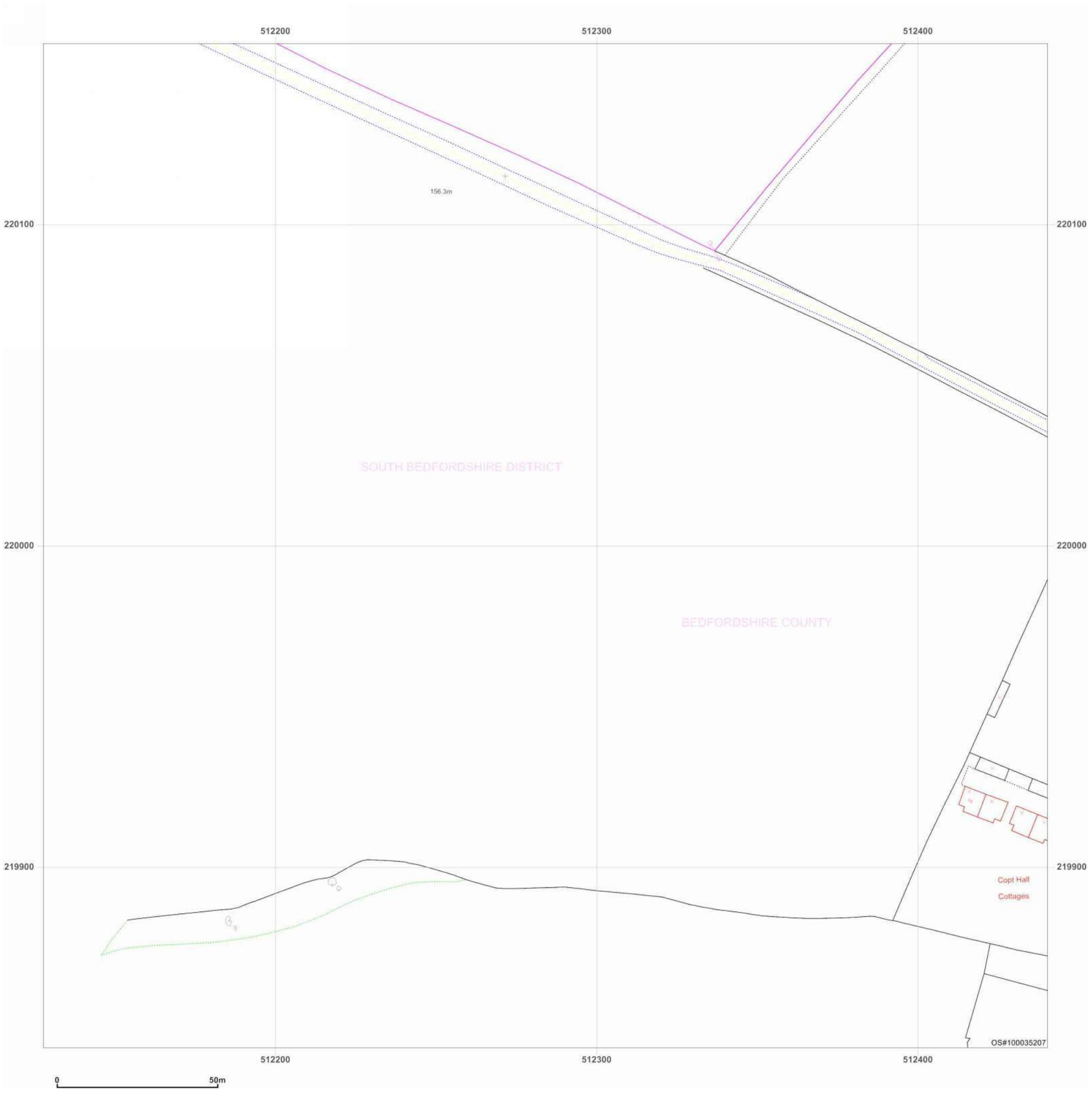

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_1
Grid Ref: 512284, 220000

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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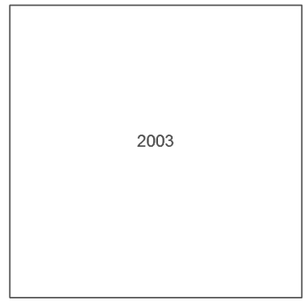

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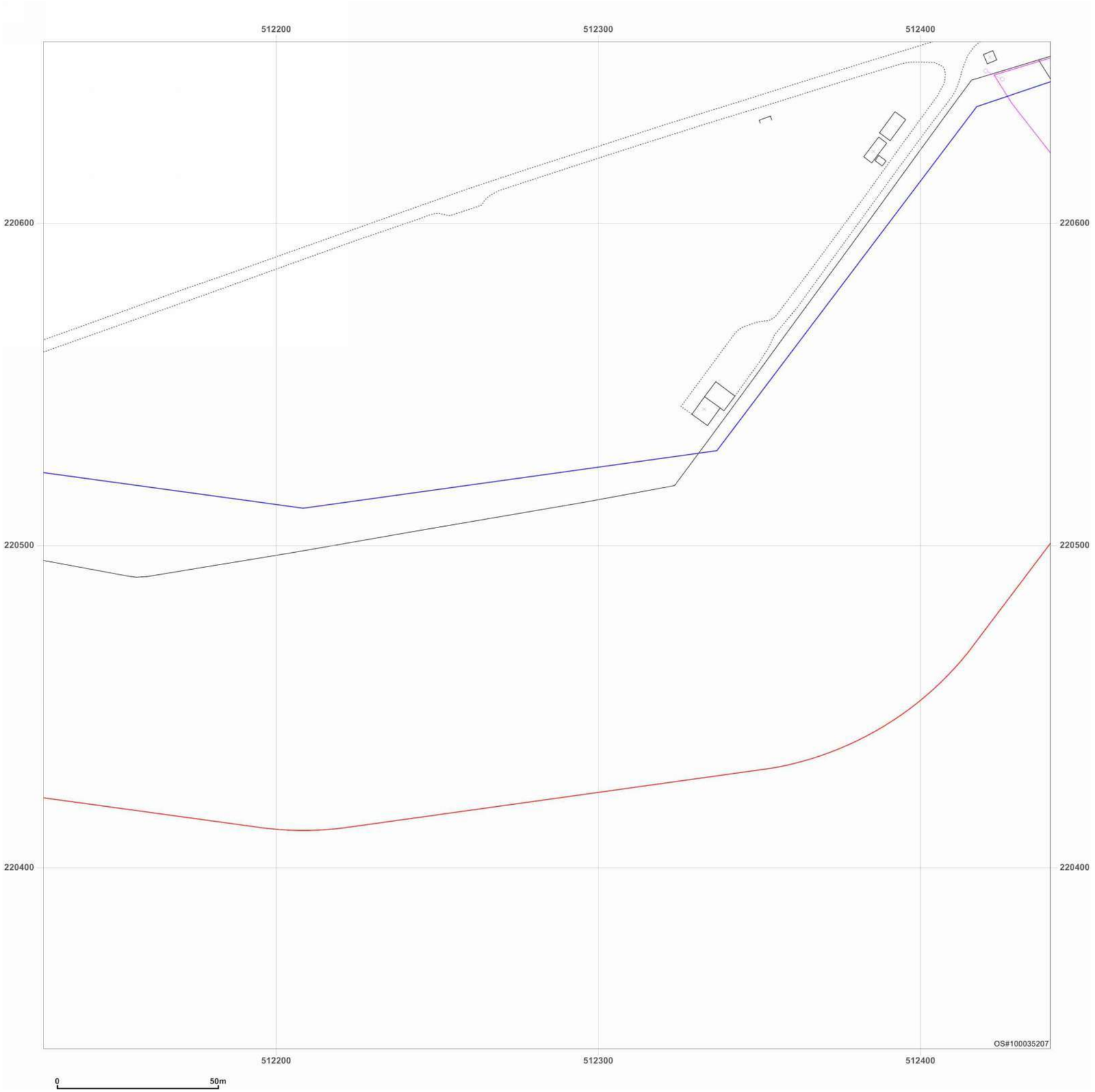

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_2
Grid Ref: 512284, 220500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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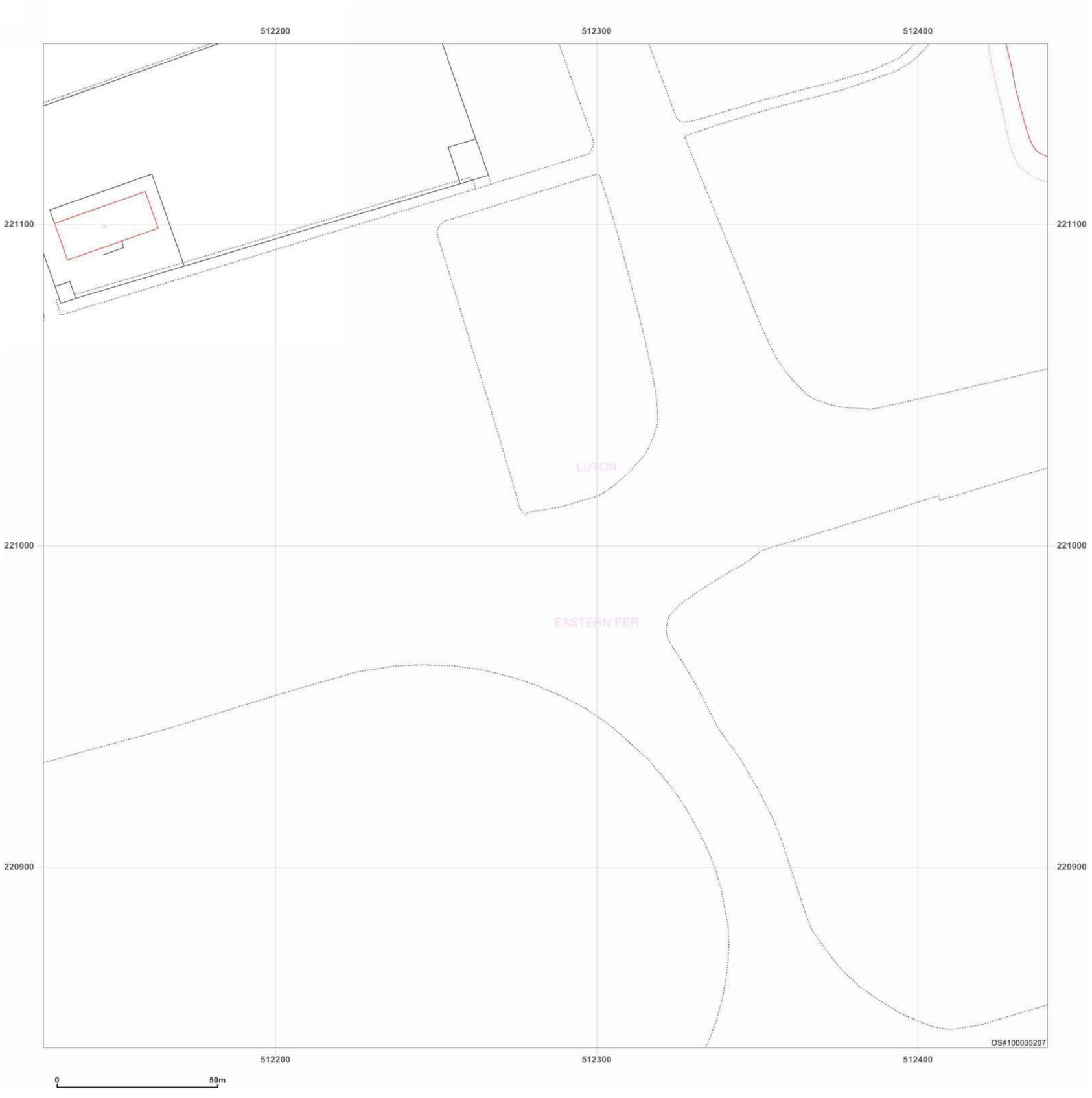

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_3
Grid Ref: 512284, 221000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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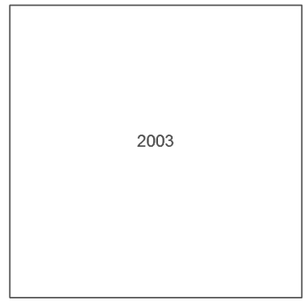

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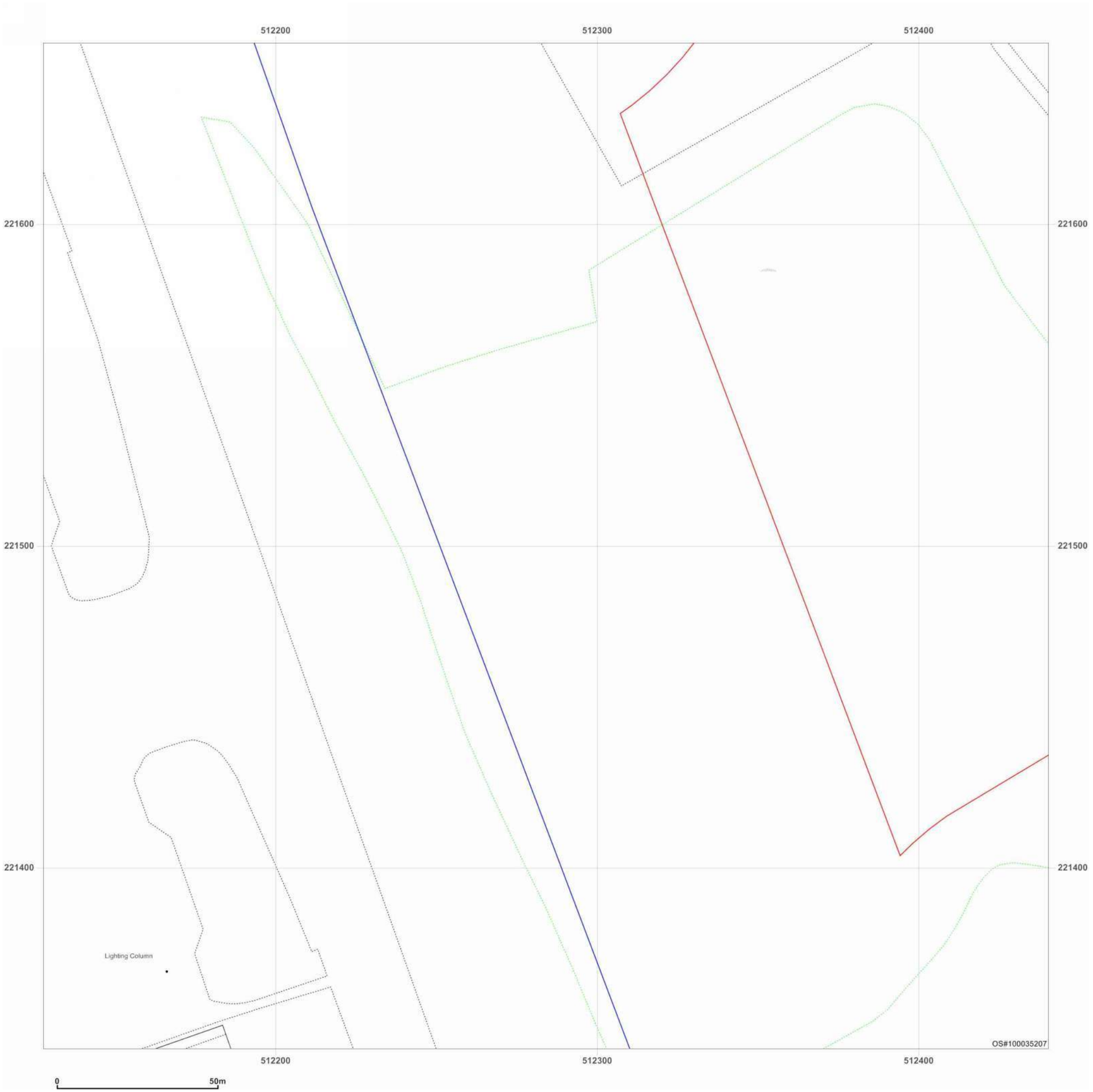

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_4
Grid Ref: 512284, 221500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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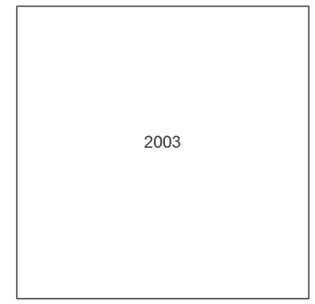

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_5
Grid Ref: 512284, 222000

Map Name: National Grid

Map date: **1989-1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1988	Surveyed N/A
Revised 1988	Revised N/A
Edition N/A	Edition N/A
Copyright 1989	Copyright 1993
Levelled N/A	Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_5
Grid Ref: 512284, 222000

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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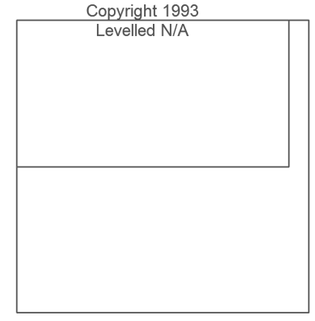
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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Map legend available at:
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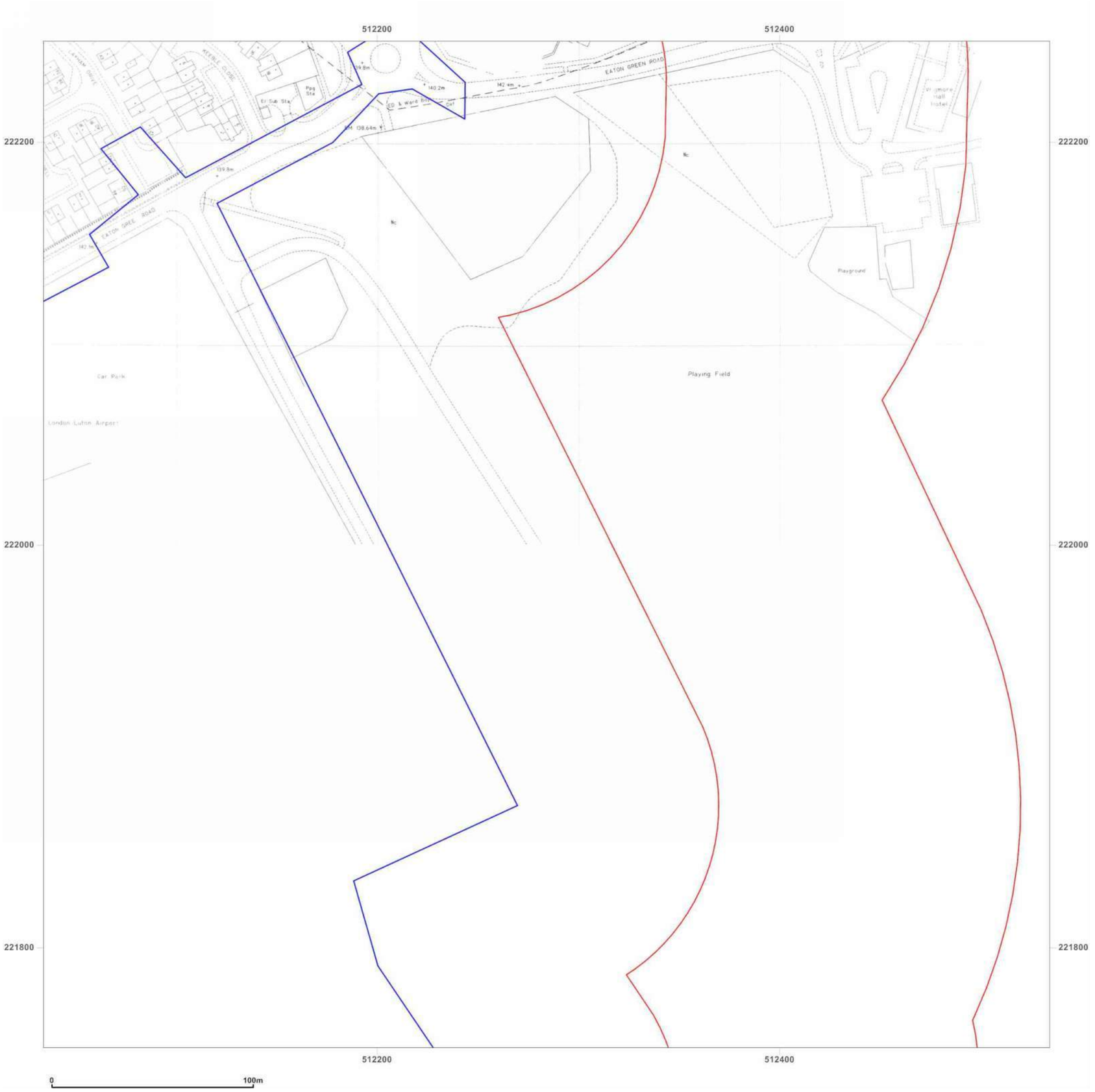

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_5
Grid Ref: 512284, 222000

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1993
Revised 1993
Edition N/A
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Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_5
Grid Ref: 512284, 222000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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Map legend available at:
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_6
Grid Ref: 512284, 222500

Map Name: National Grid
Map date: **1989-1993**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A
Surveyed 1988 Revised 1988 Edition N/A Copyright 1989 Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A

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Production date: 20 November 2020

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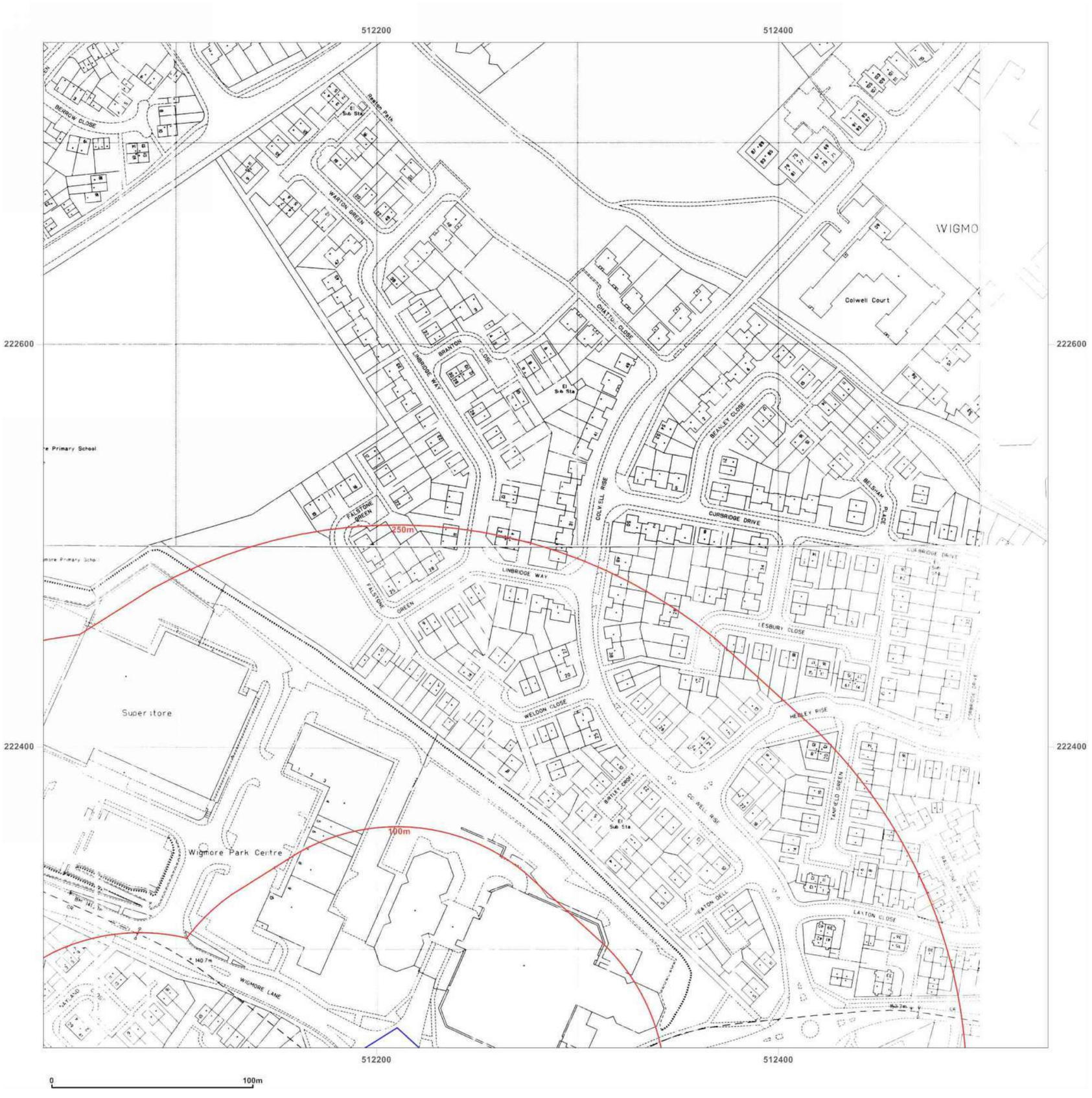

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_6
Grid Ref: 512284, 222500

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

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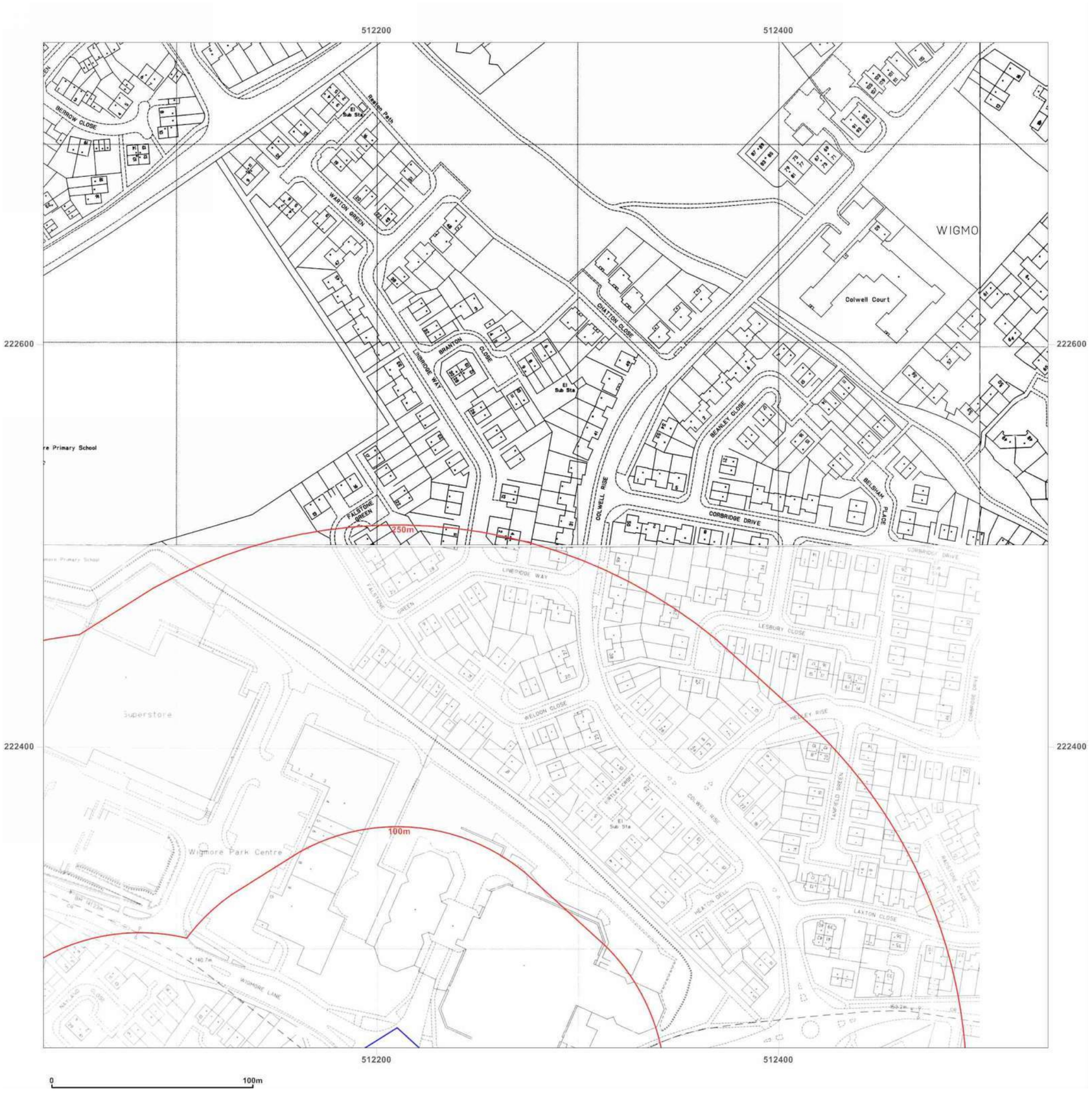

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_6
Grid Ref: 512284, 222500

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1993
Revised 1993
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_4_6
Grid Ref: 512284, 222500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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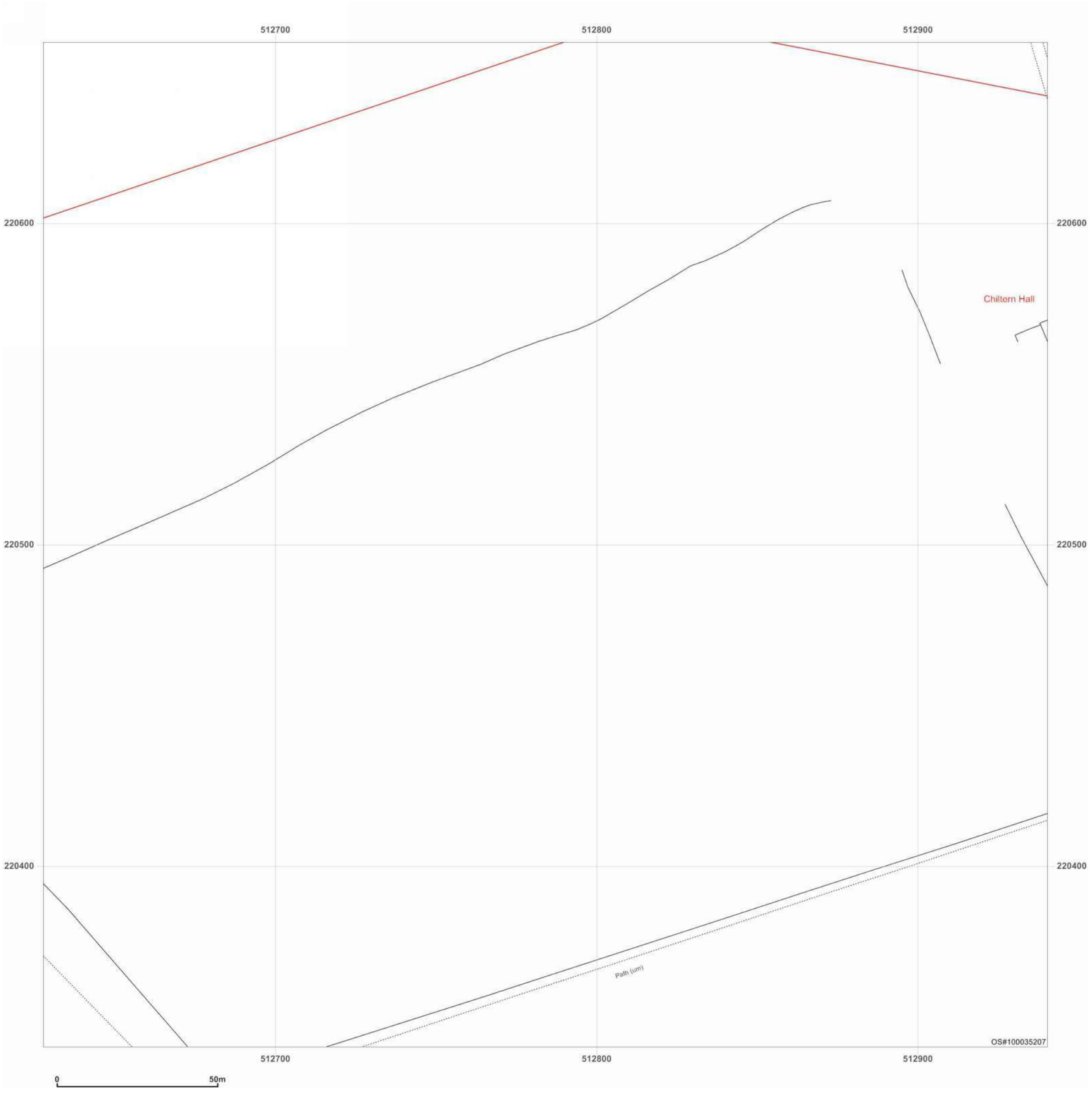

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_5_2
Grid Ref: 512784, 220500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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2003

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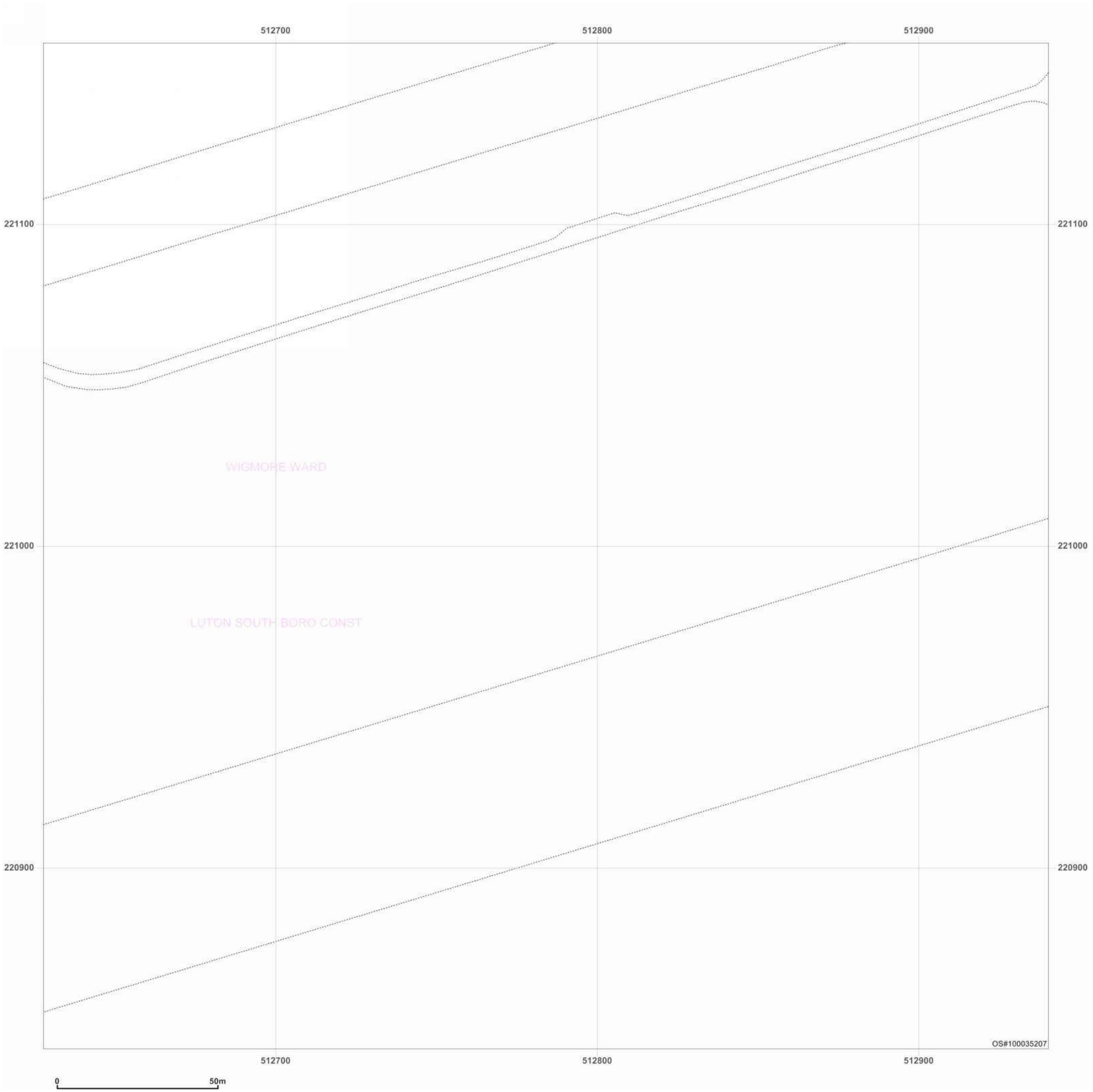

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_5_3
Grid Ref: 512784, 221000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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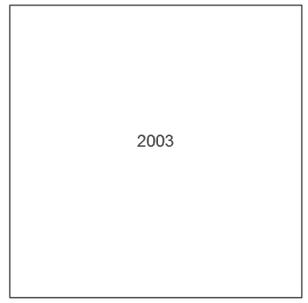

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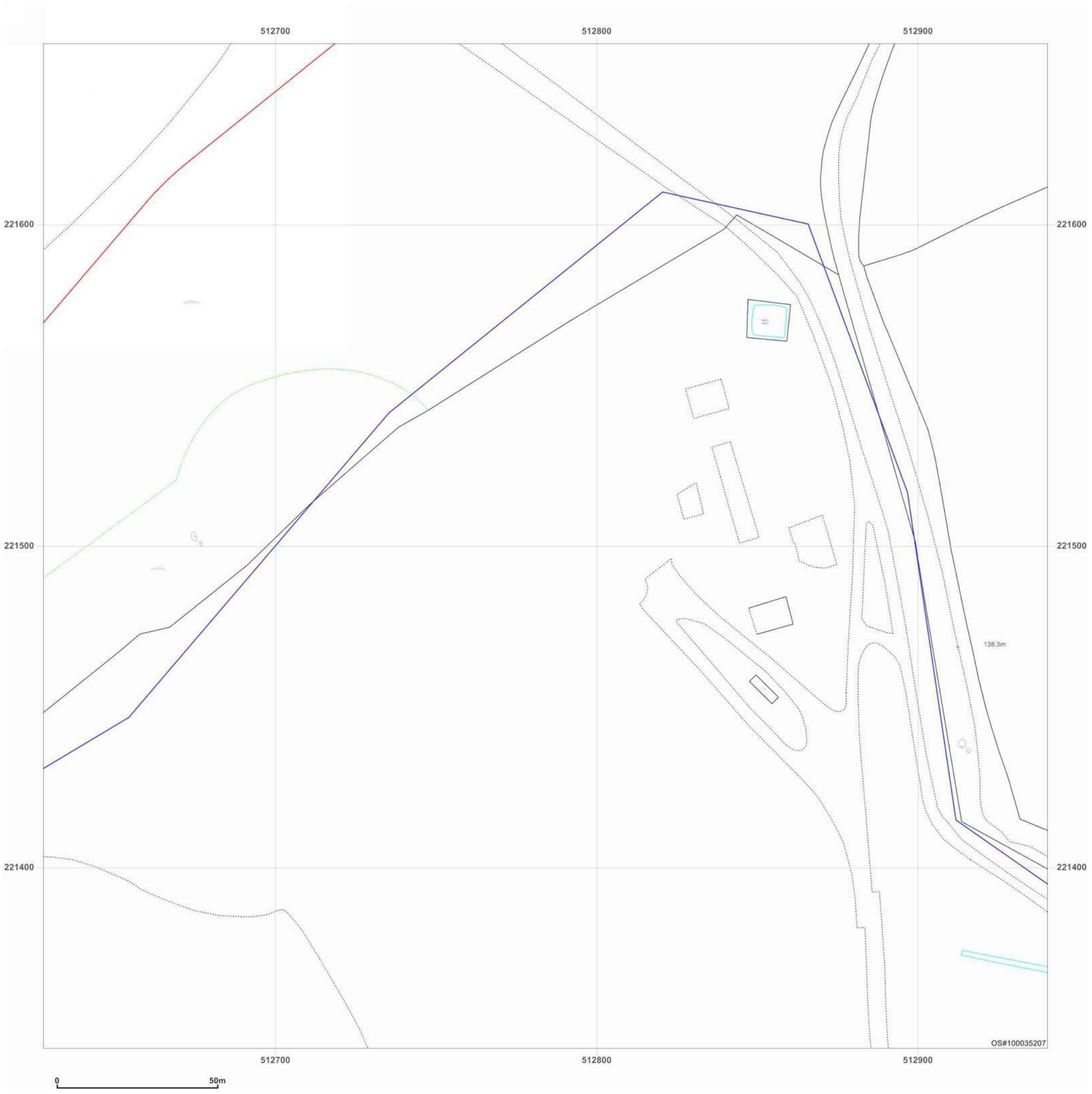

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_5_4
Grid Ref: 512784, 221500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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2003

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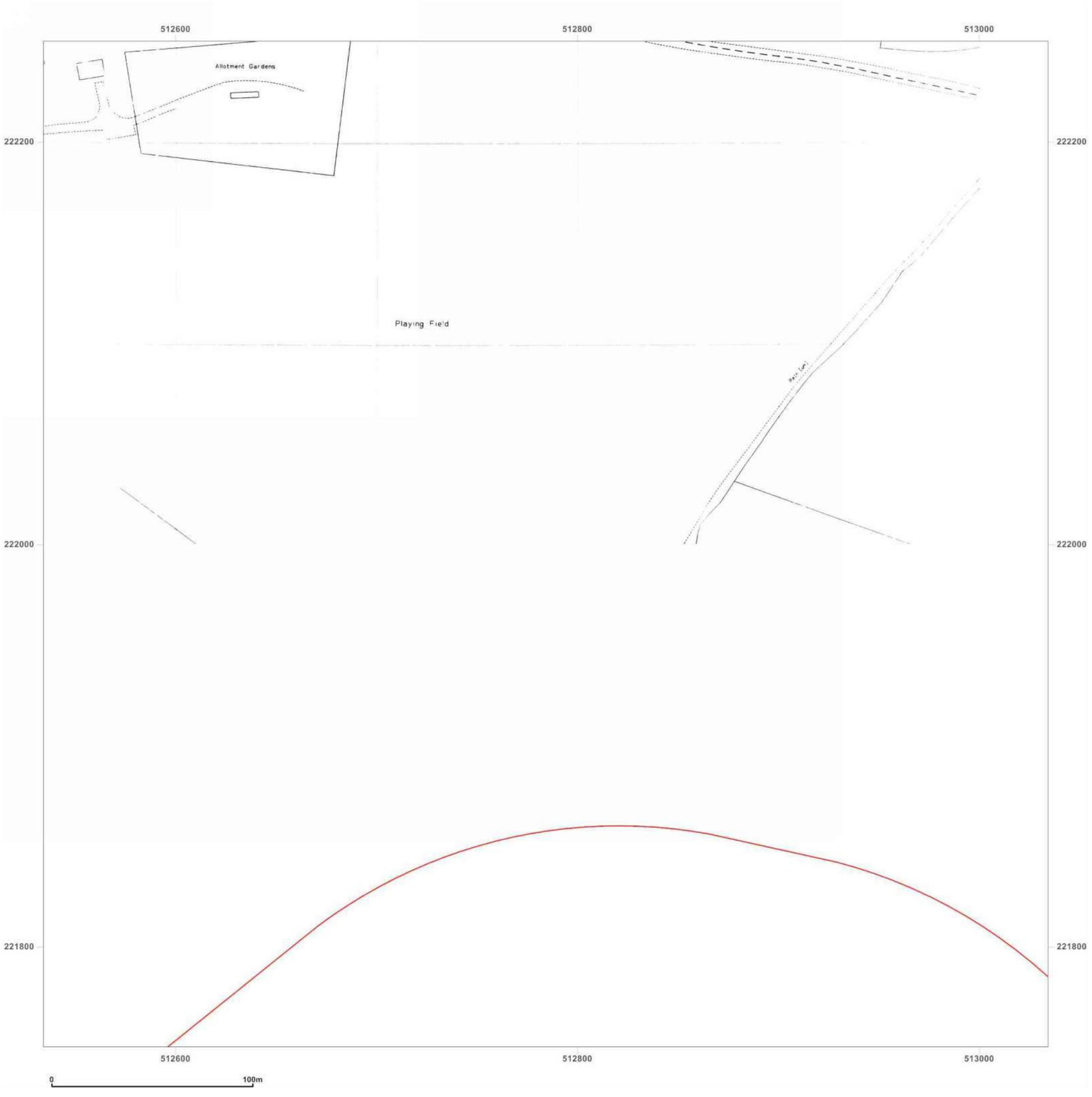

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_5_5
Grid Ref: 512784, 222000

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
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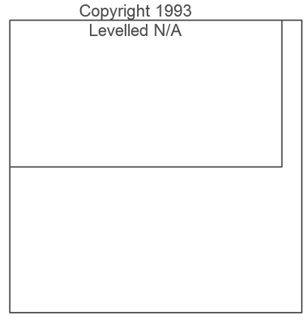
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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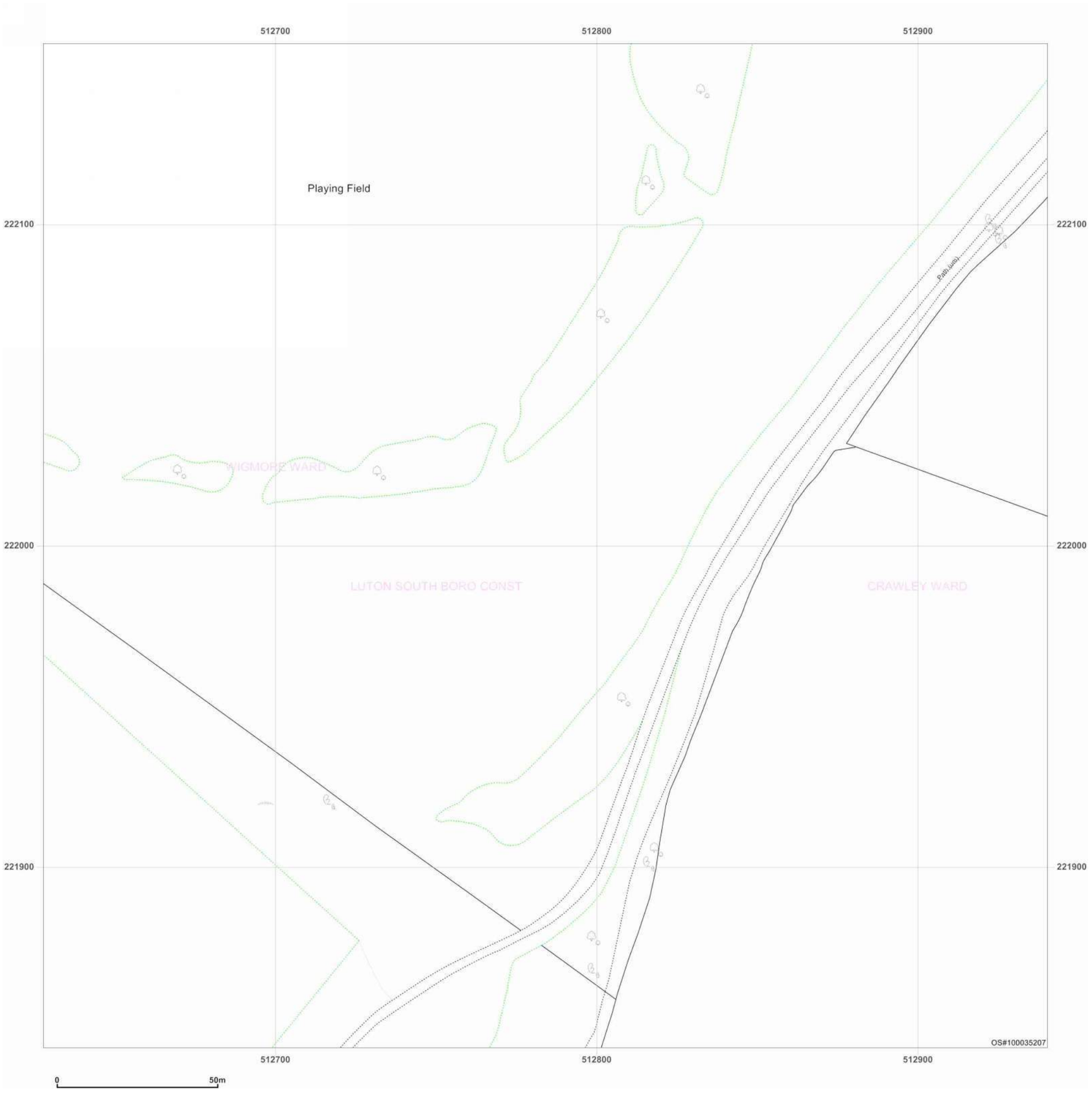

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_5_5
Grid Ref: 512784, 222000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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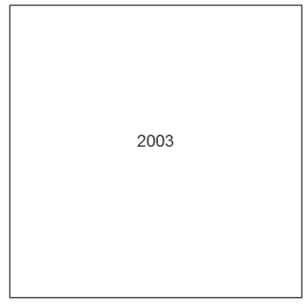

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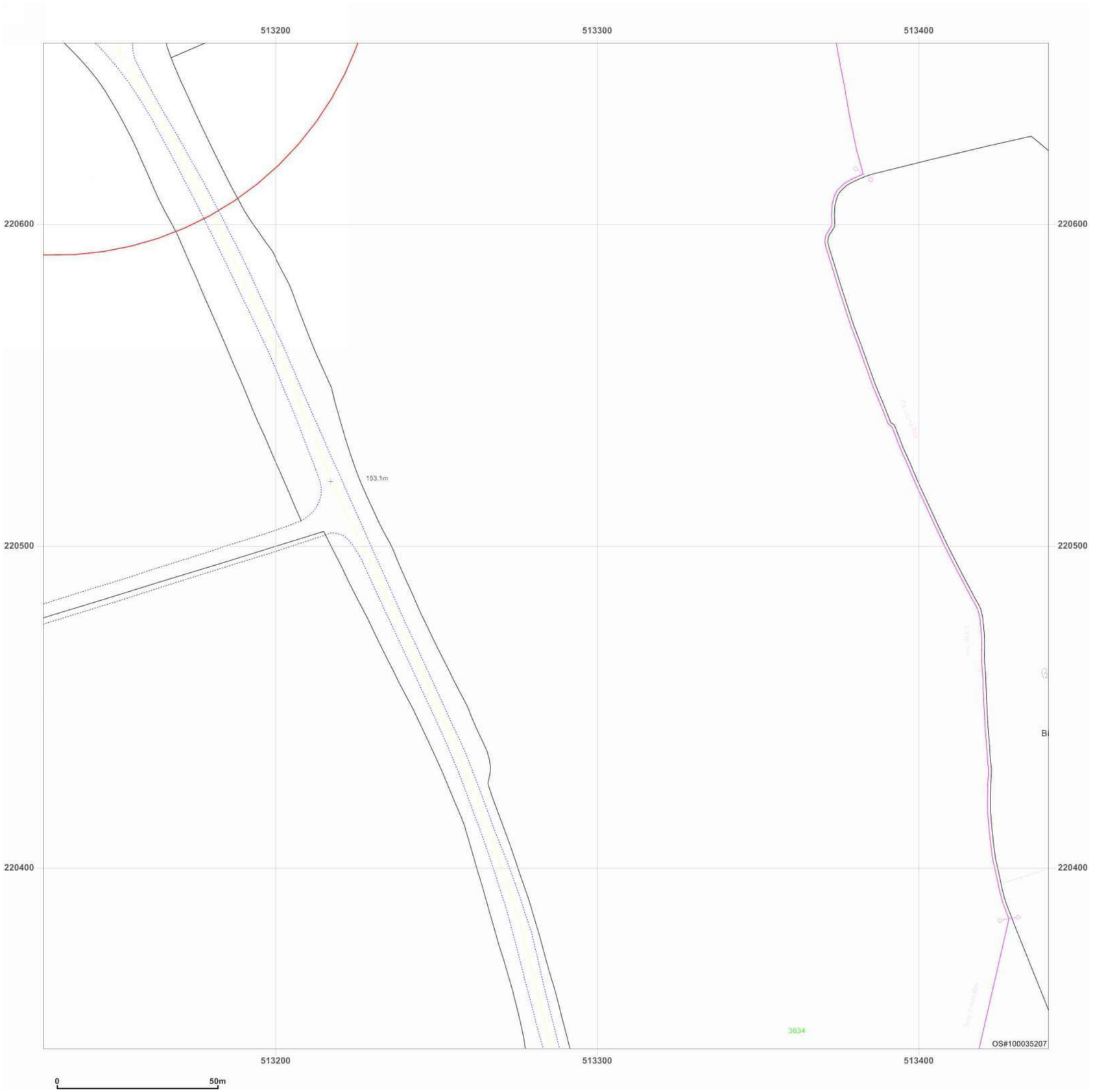

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_6_2
Grid Ref: 513284, 220500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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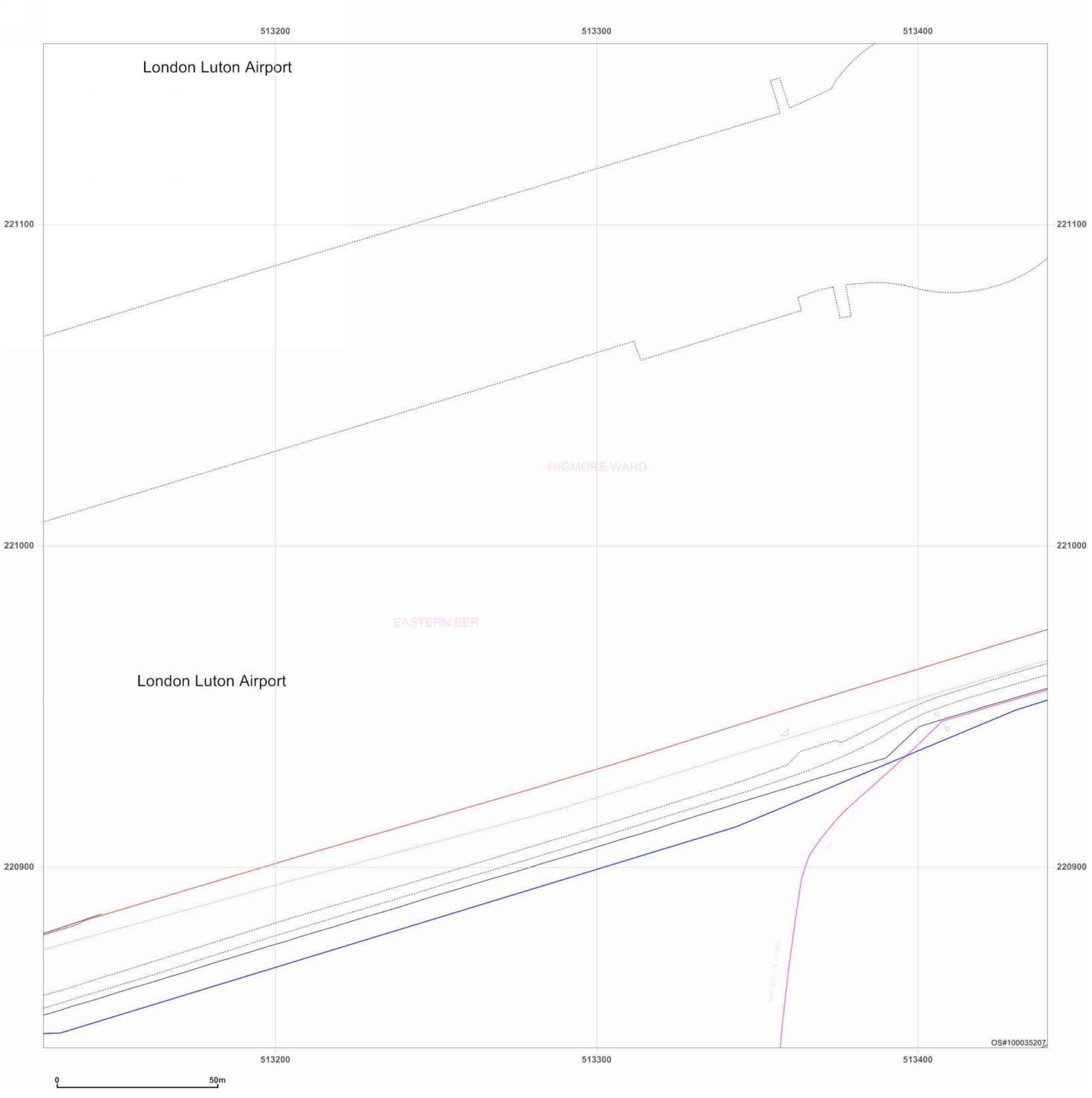

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_6_3
Grid Ref: 513284, 221000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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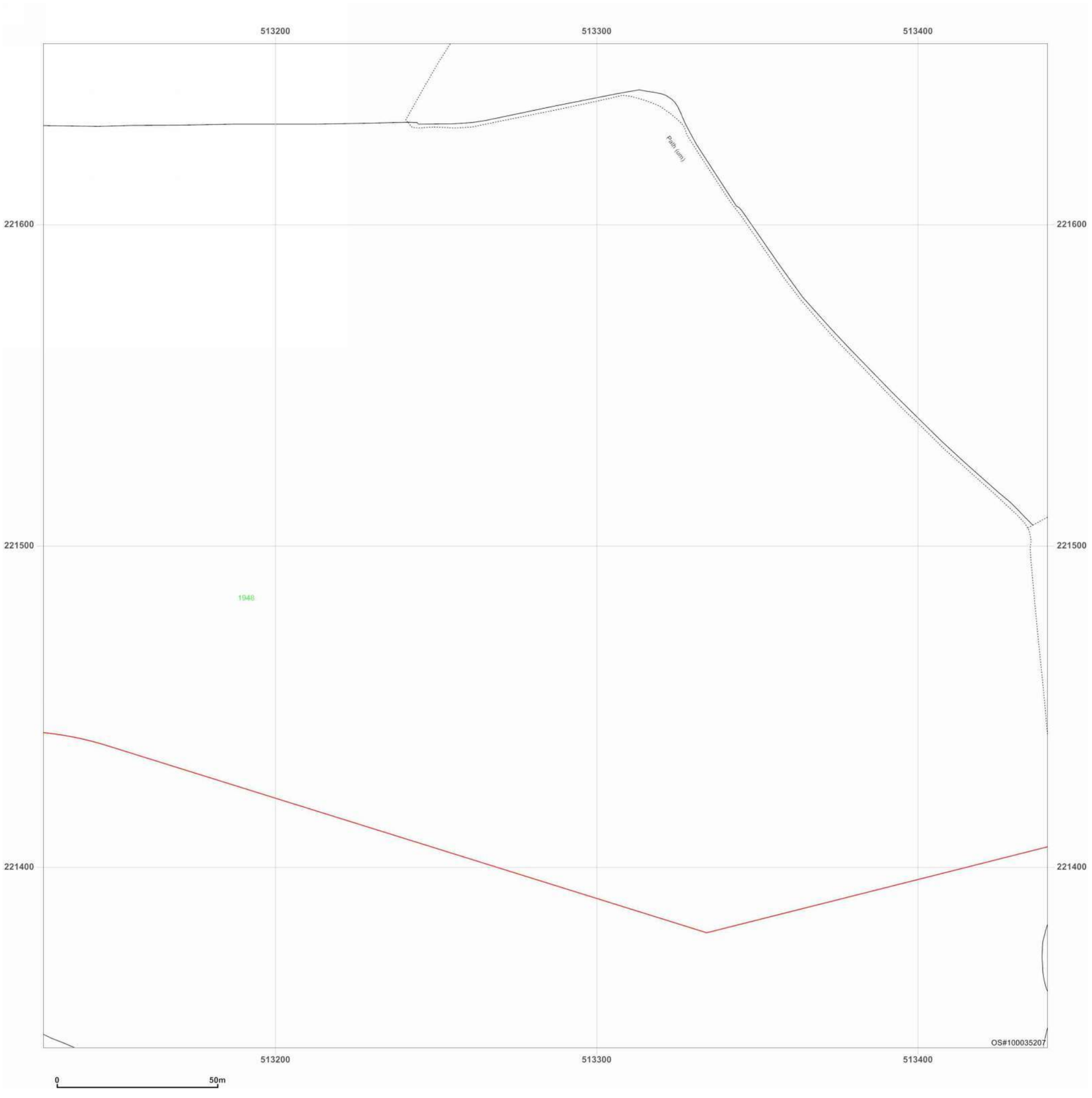

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_6_4
Grid Ref: 513284, 221500

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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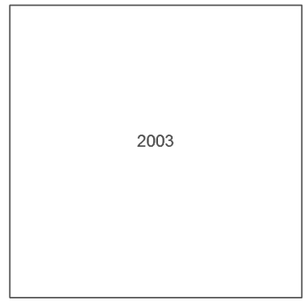

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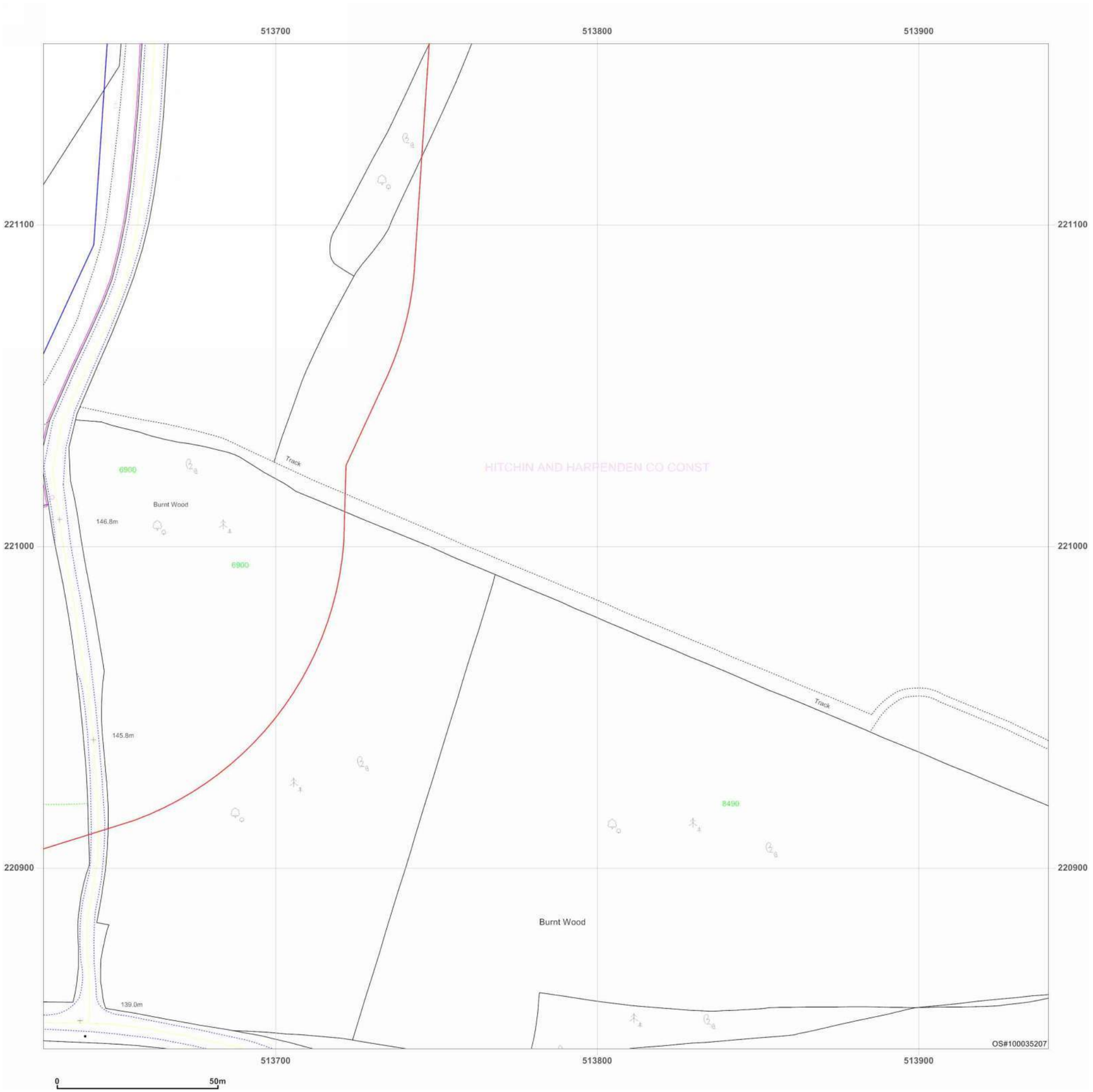

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_7_3
Grid Ref: 513784, 221000

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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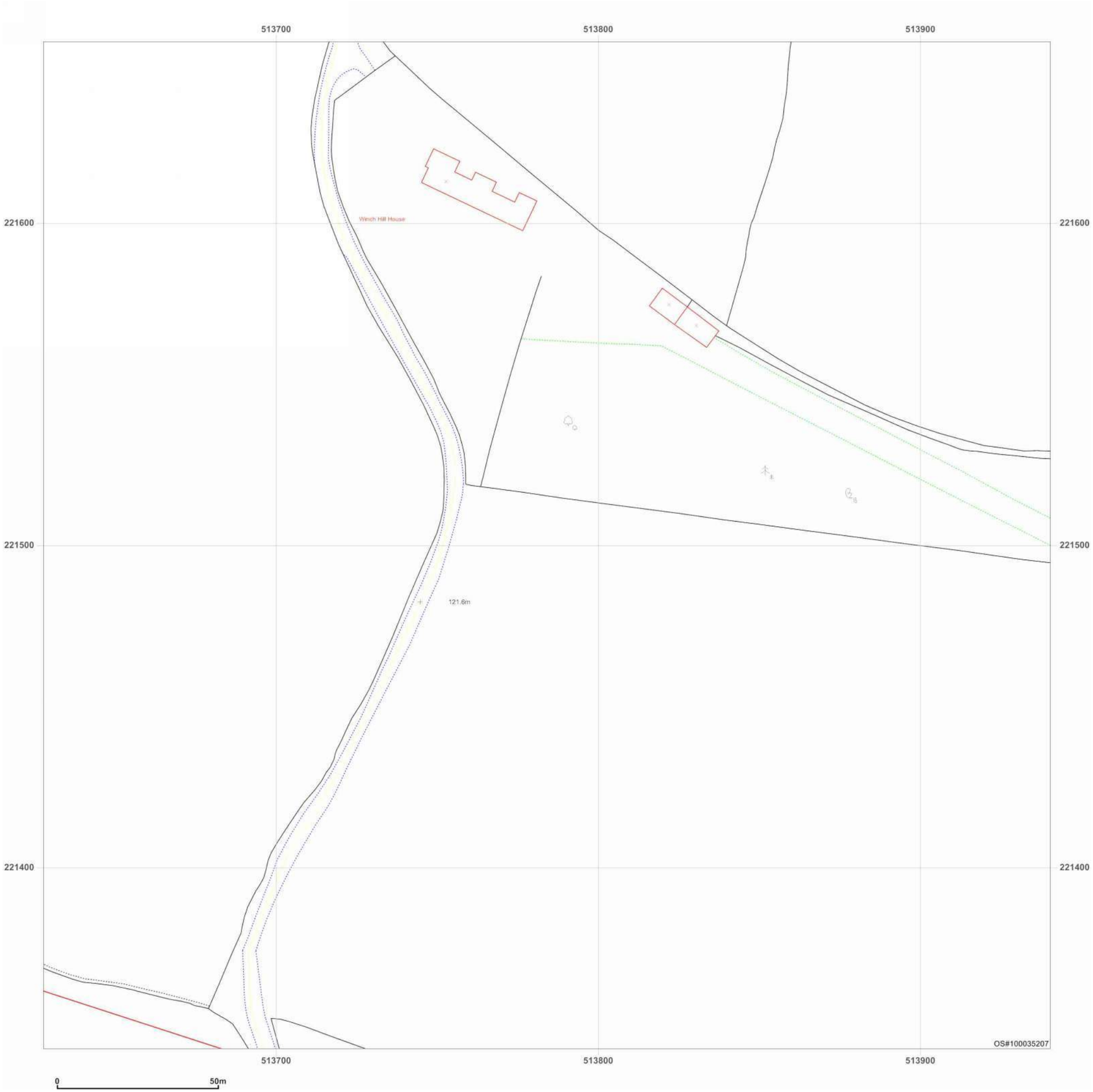

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_1250scale_7_4
Grid Ref: 513784, 221500

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

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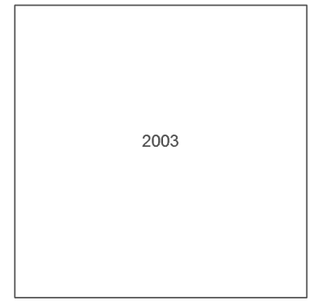

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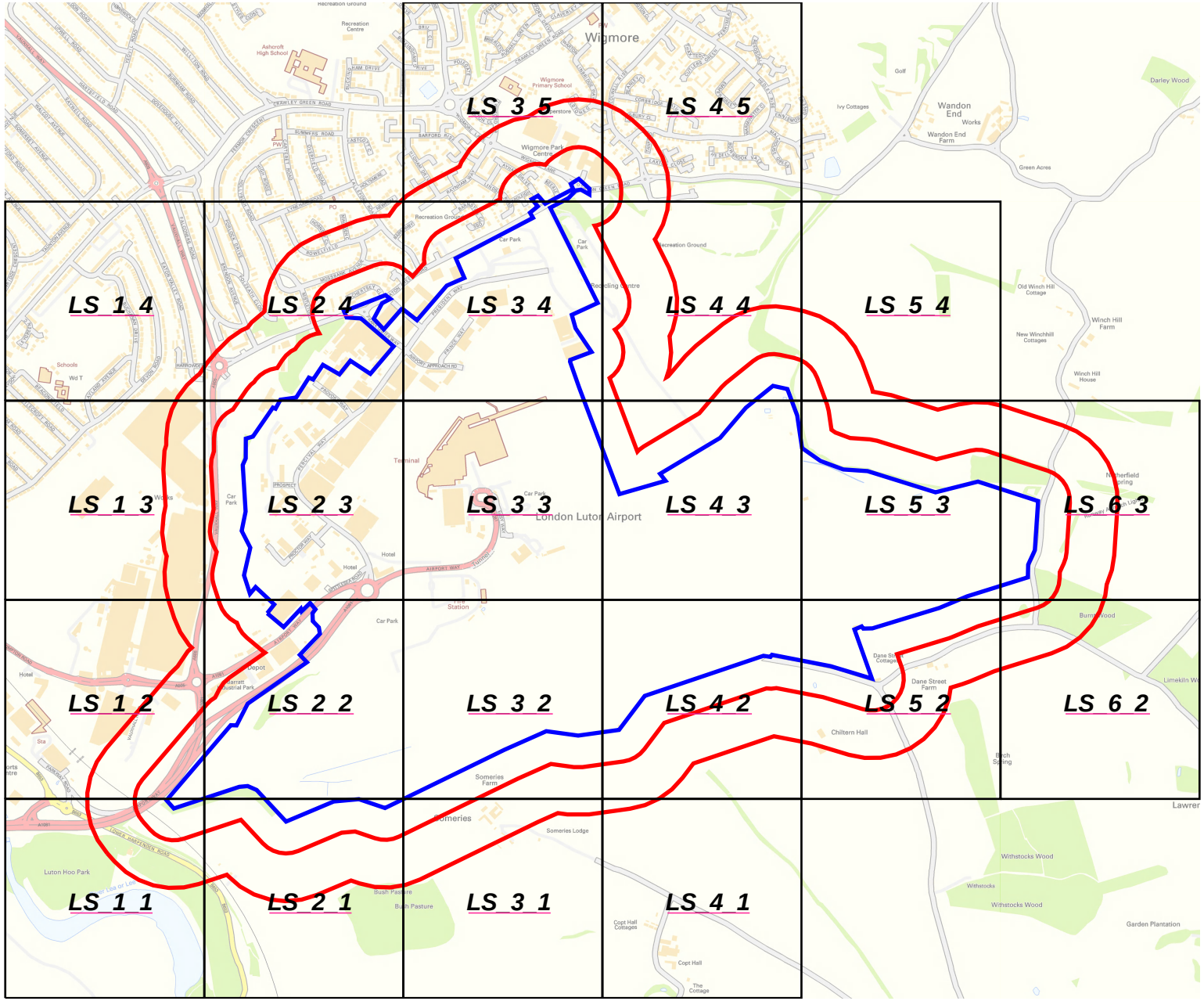

Groundsure INSIGHTS

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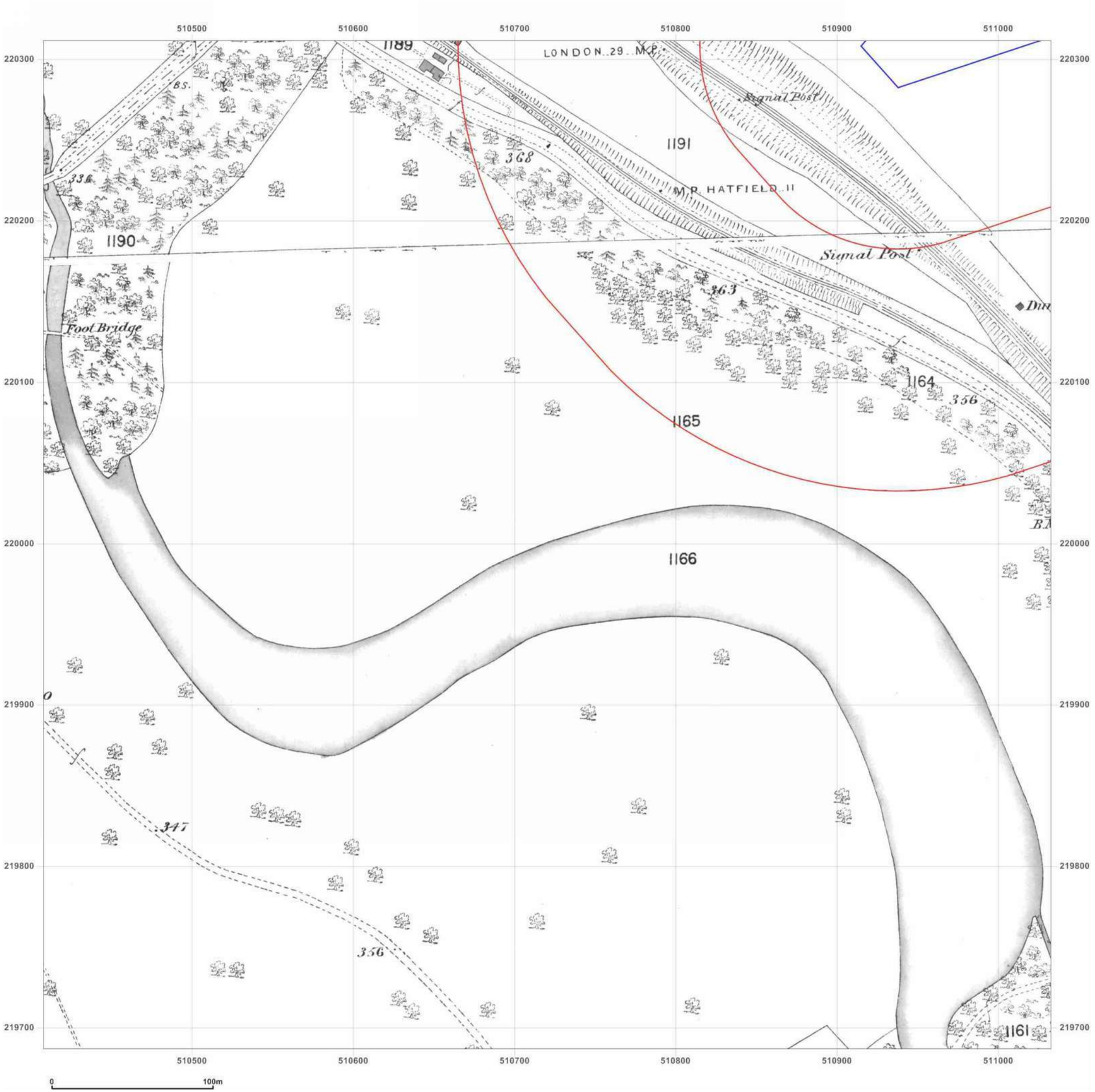
1:2500 Scale Grid Index



Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_1
Grid Ref: 510720, 219999

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

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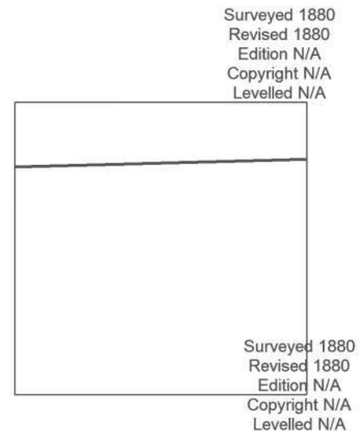

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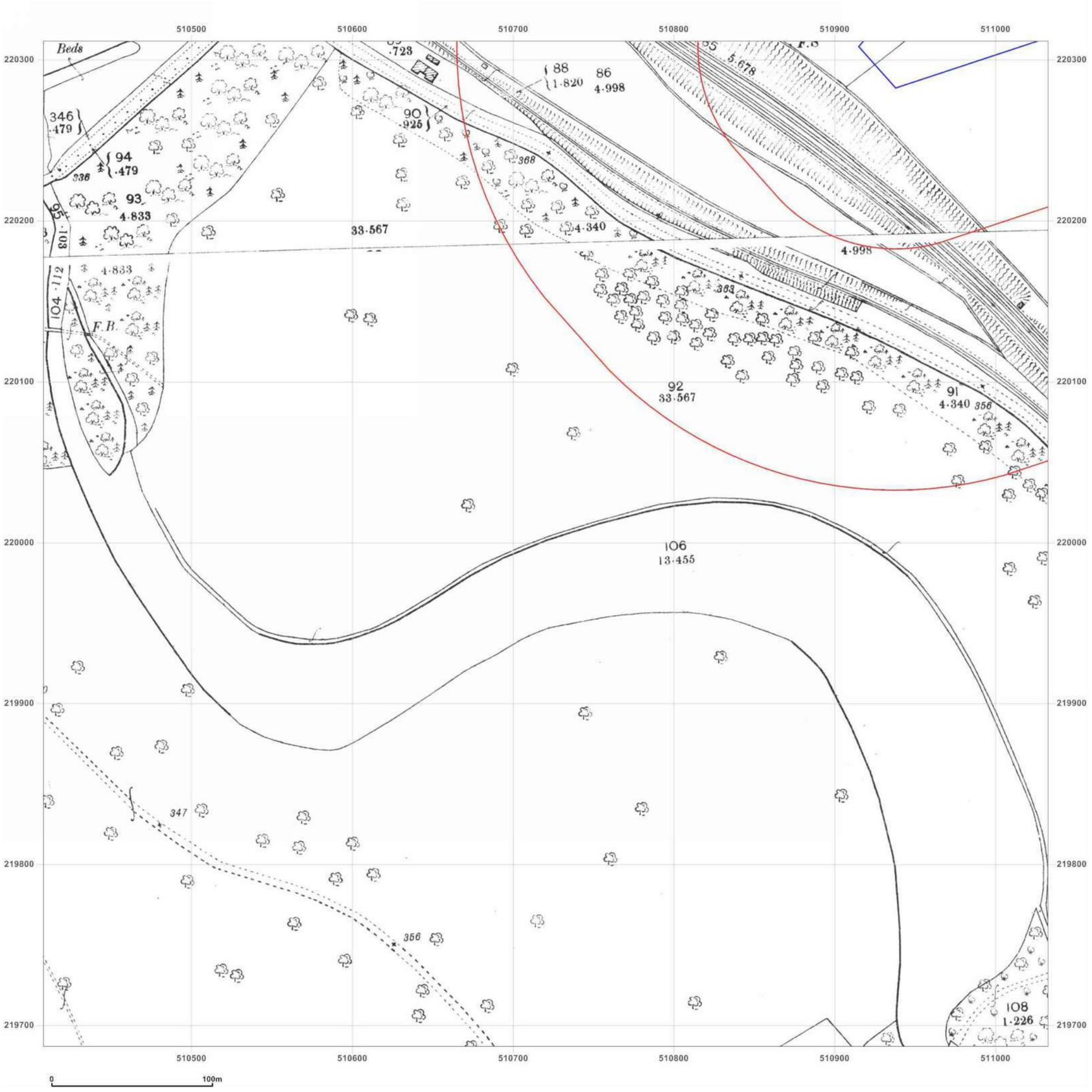

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_1
Grid Ref: 510720, 219999

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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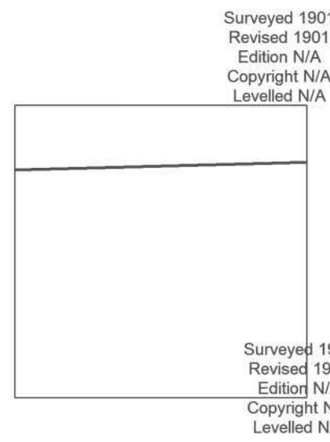

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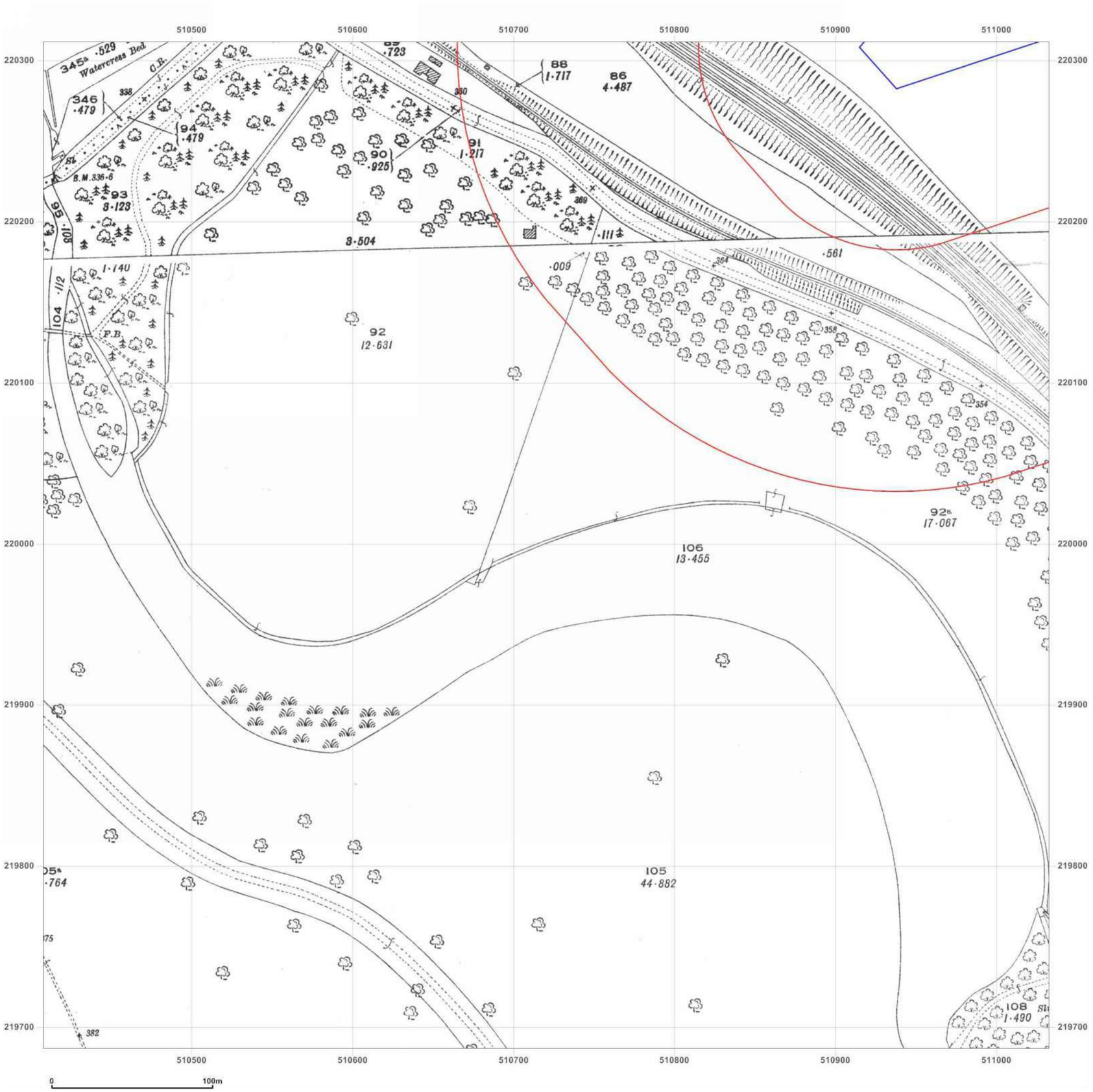

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_1
Grid Ref: 510720, 219999

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

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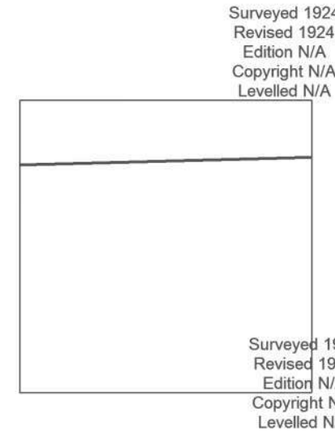

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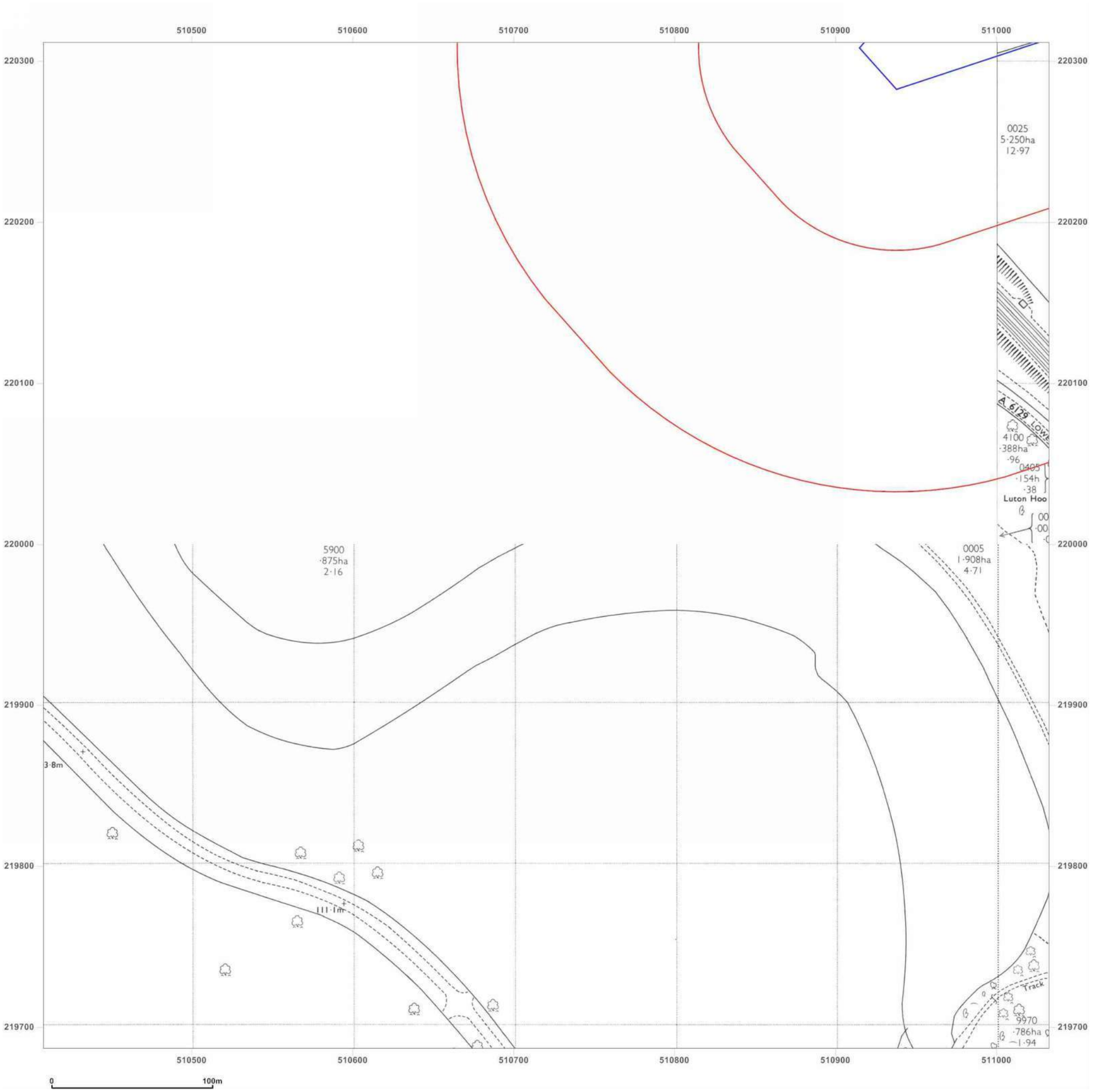

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_1
Grid Ref: 510720, 219999

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

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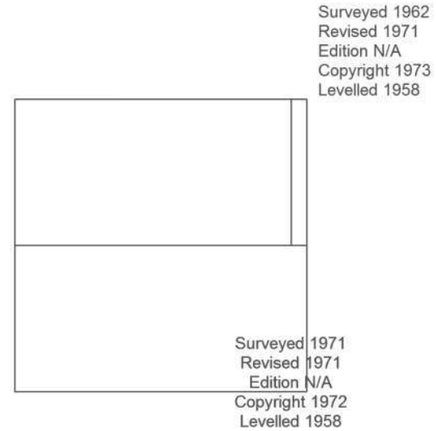

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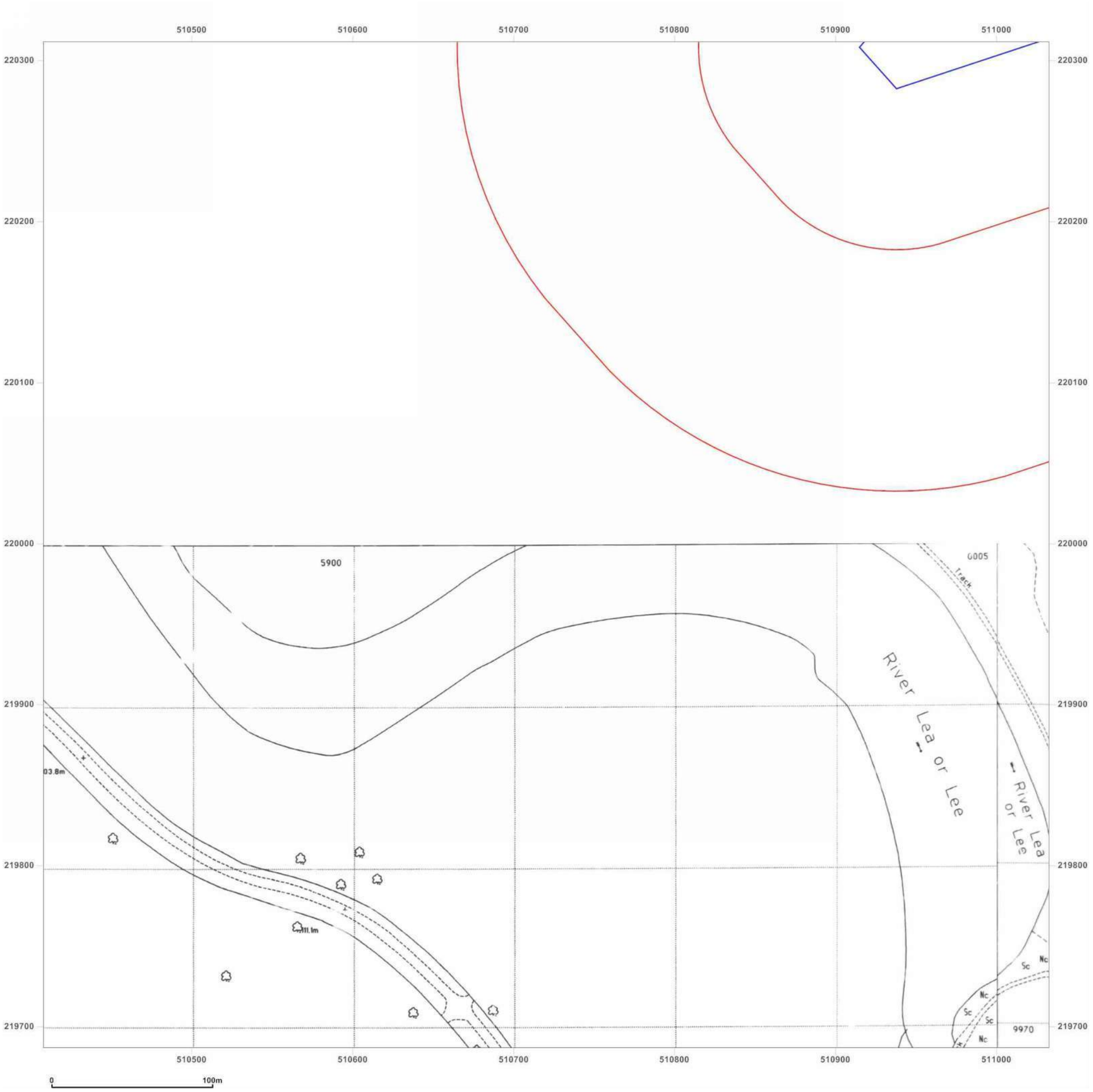

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_1
Grid Ref: 510720, 219999

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

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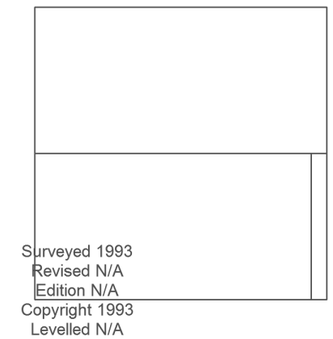

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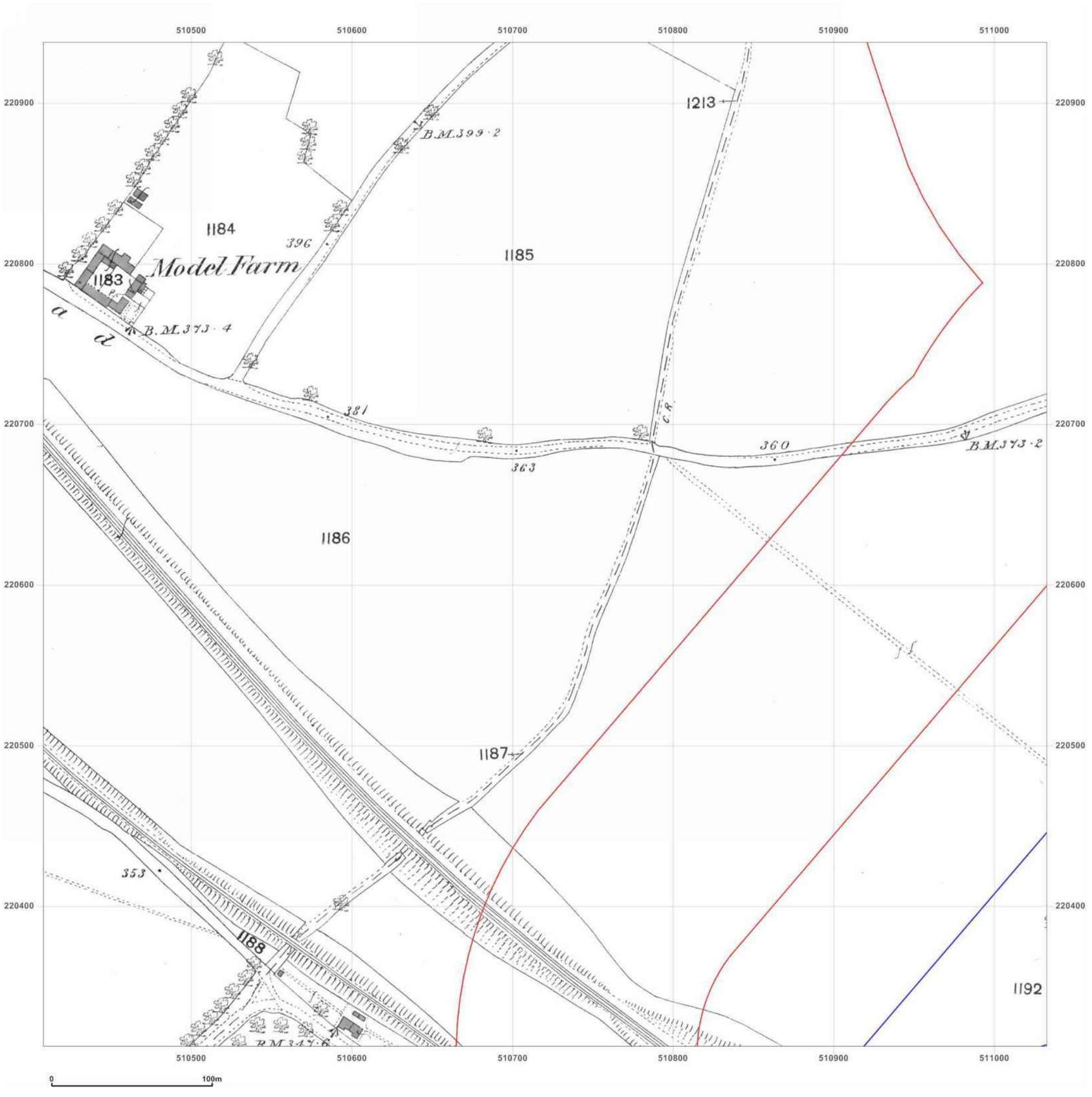

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_2
Grid Ref: 510720, 220625

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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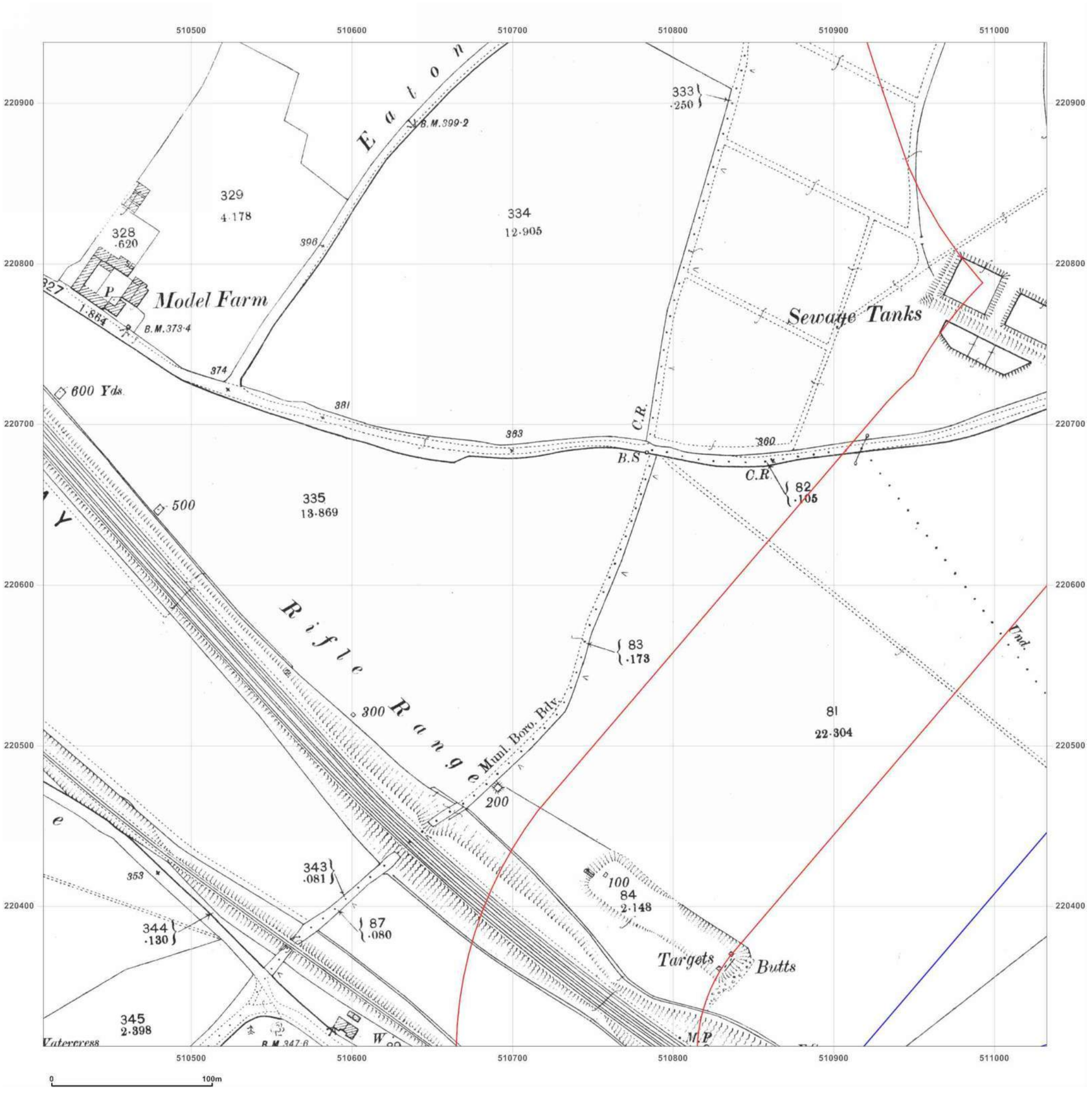

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_2
Grid Ref: 510720, 220625

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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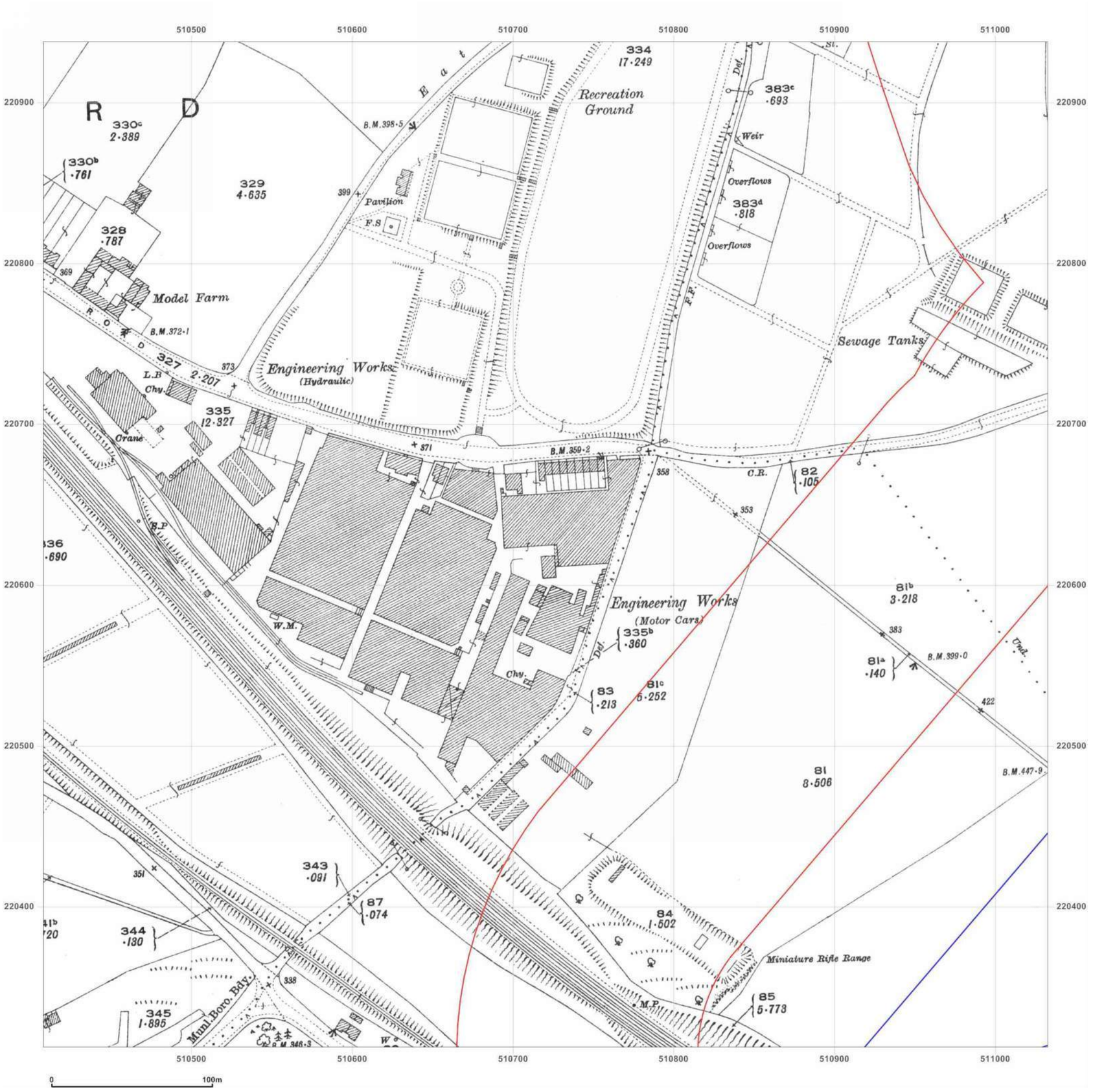

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_2
Grid Ref: 510720, 220625

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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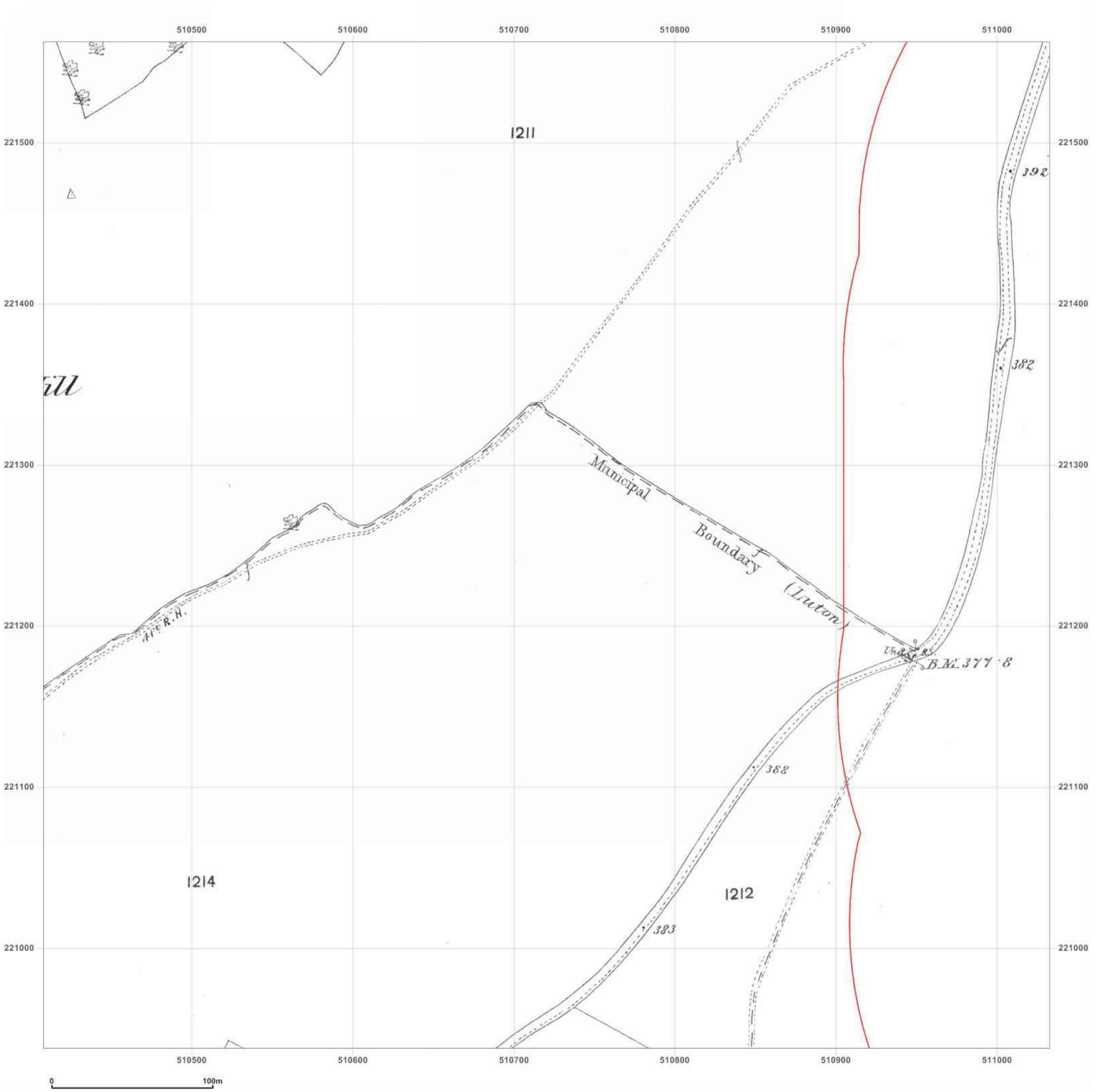

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_3
Grid Ref: 510720, 221250

Map Name: County Series
Map date: **1880**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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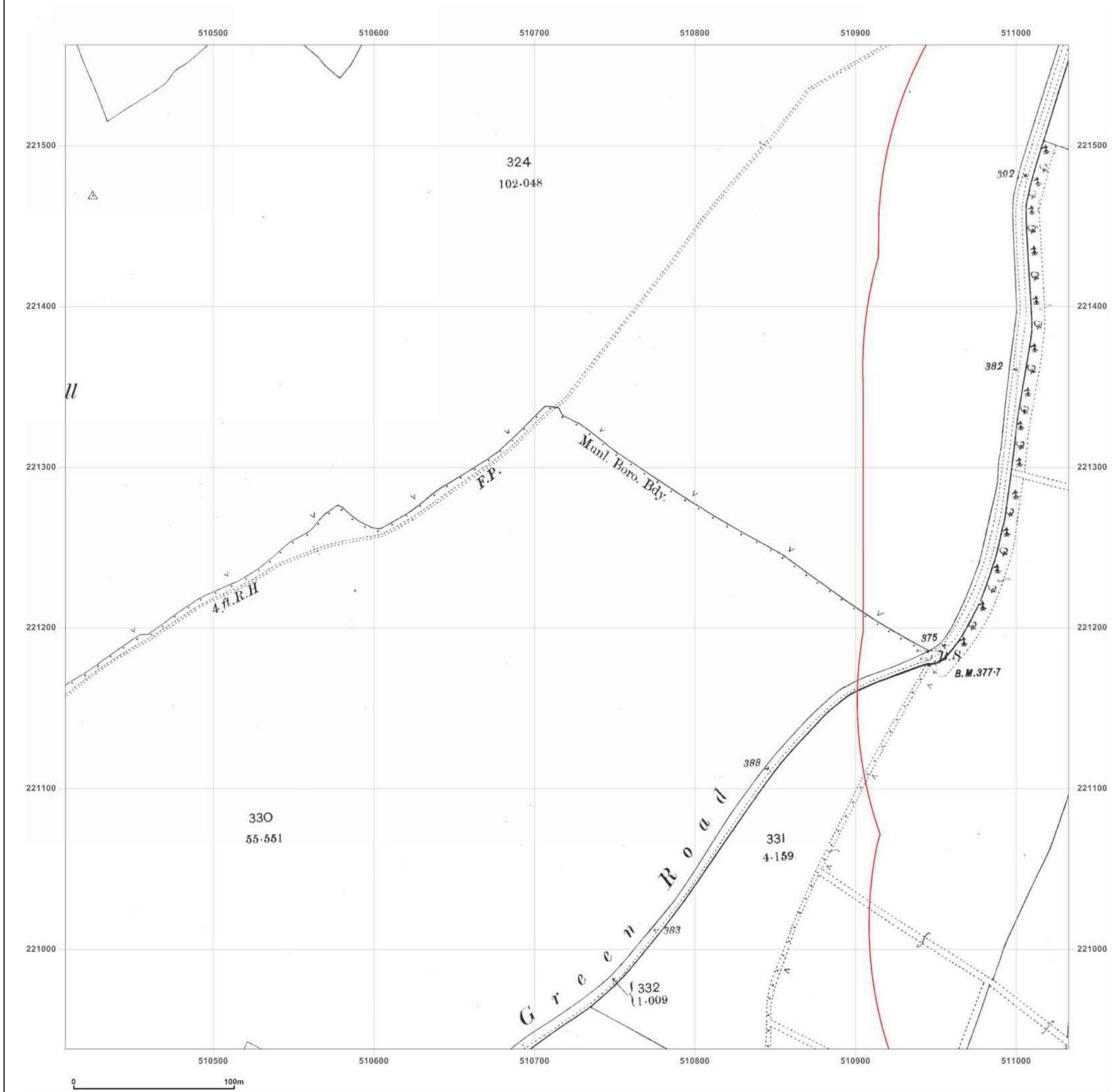

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_3
Grid Ref: 510720, 221250

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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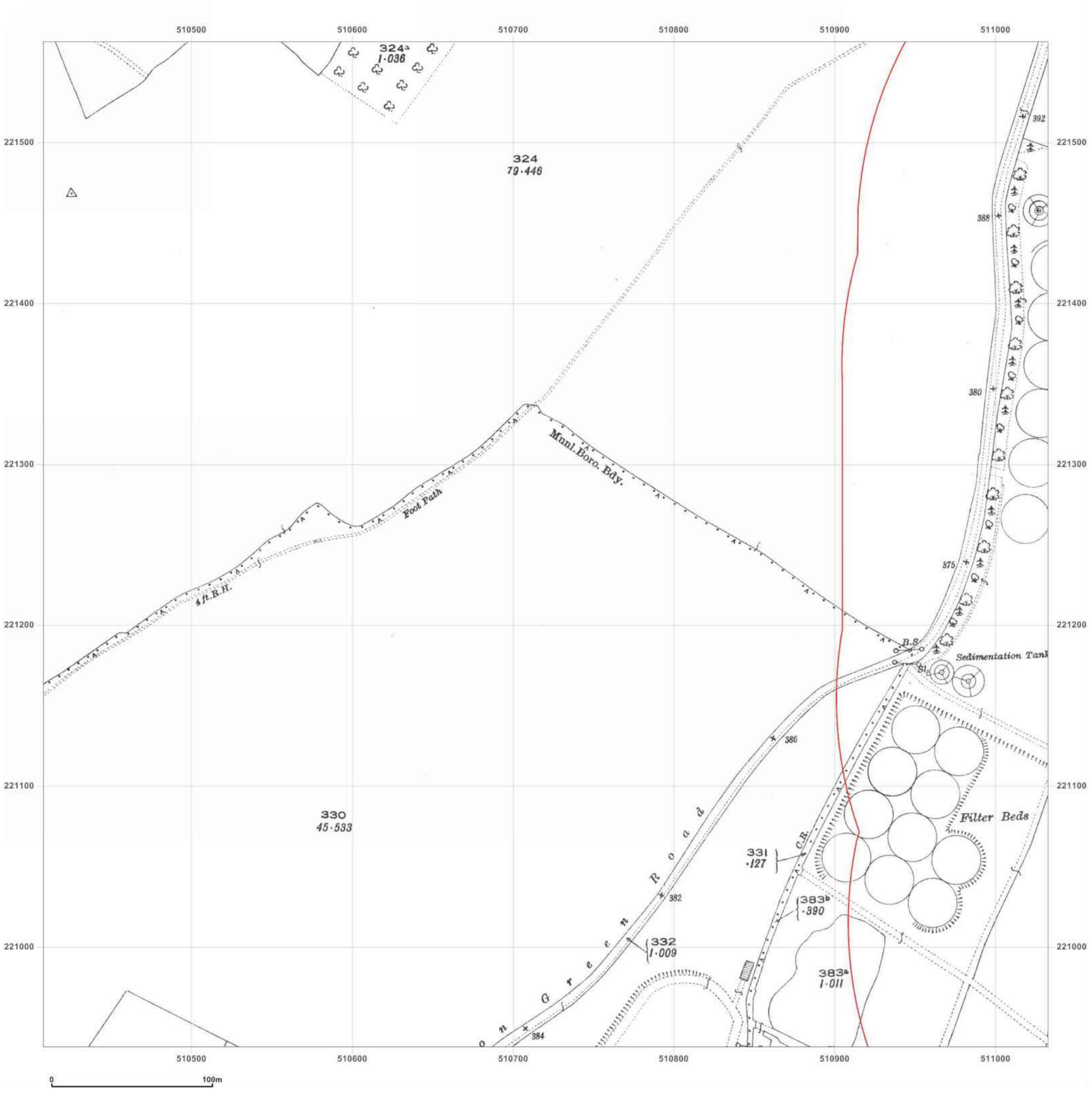

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_3
Grid Ref: 510720, 221250

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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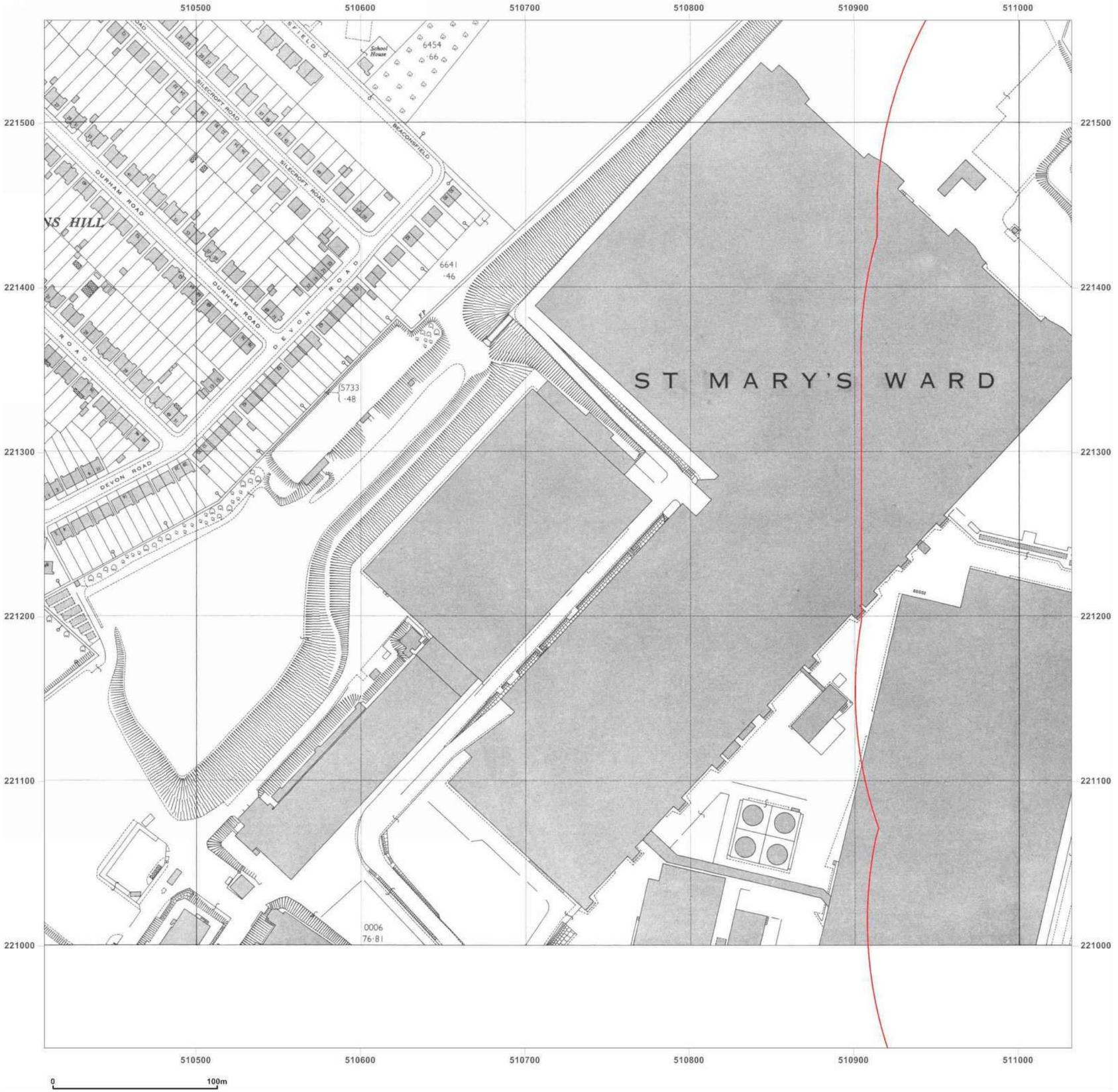

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_3
Grid Ref: 510720, 221250

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958

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Production date: 20 November 2020

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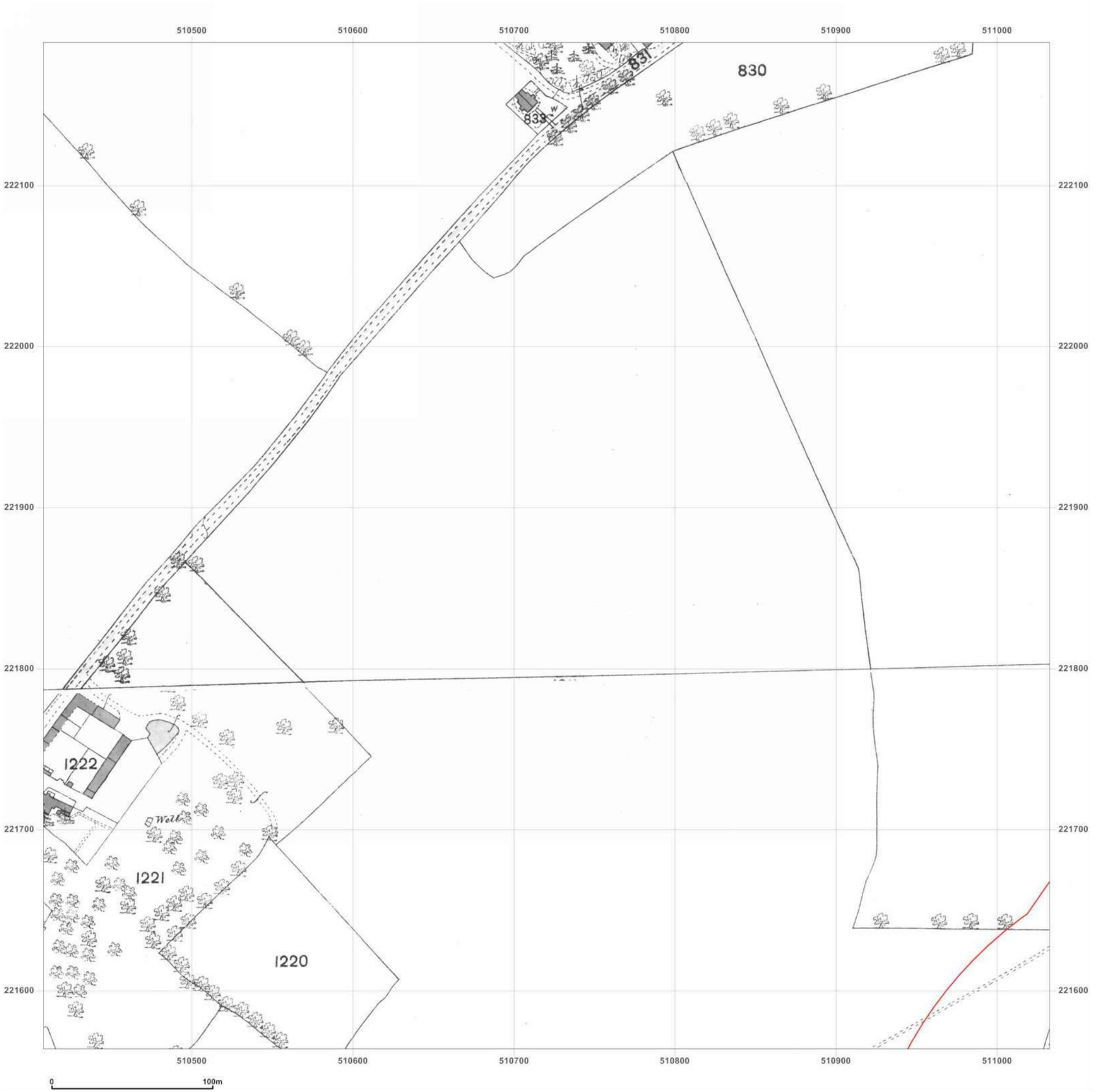

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_4
Grid Ref: 510720, 221876

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
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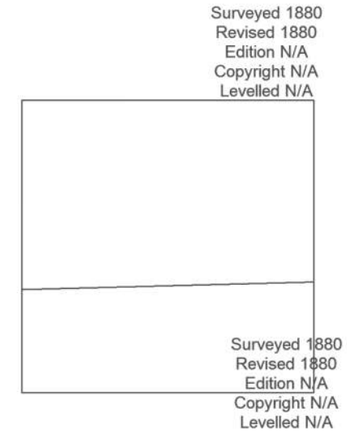

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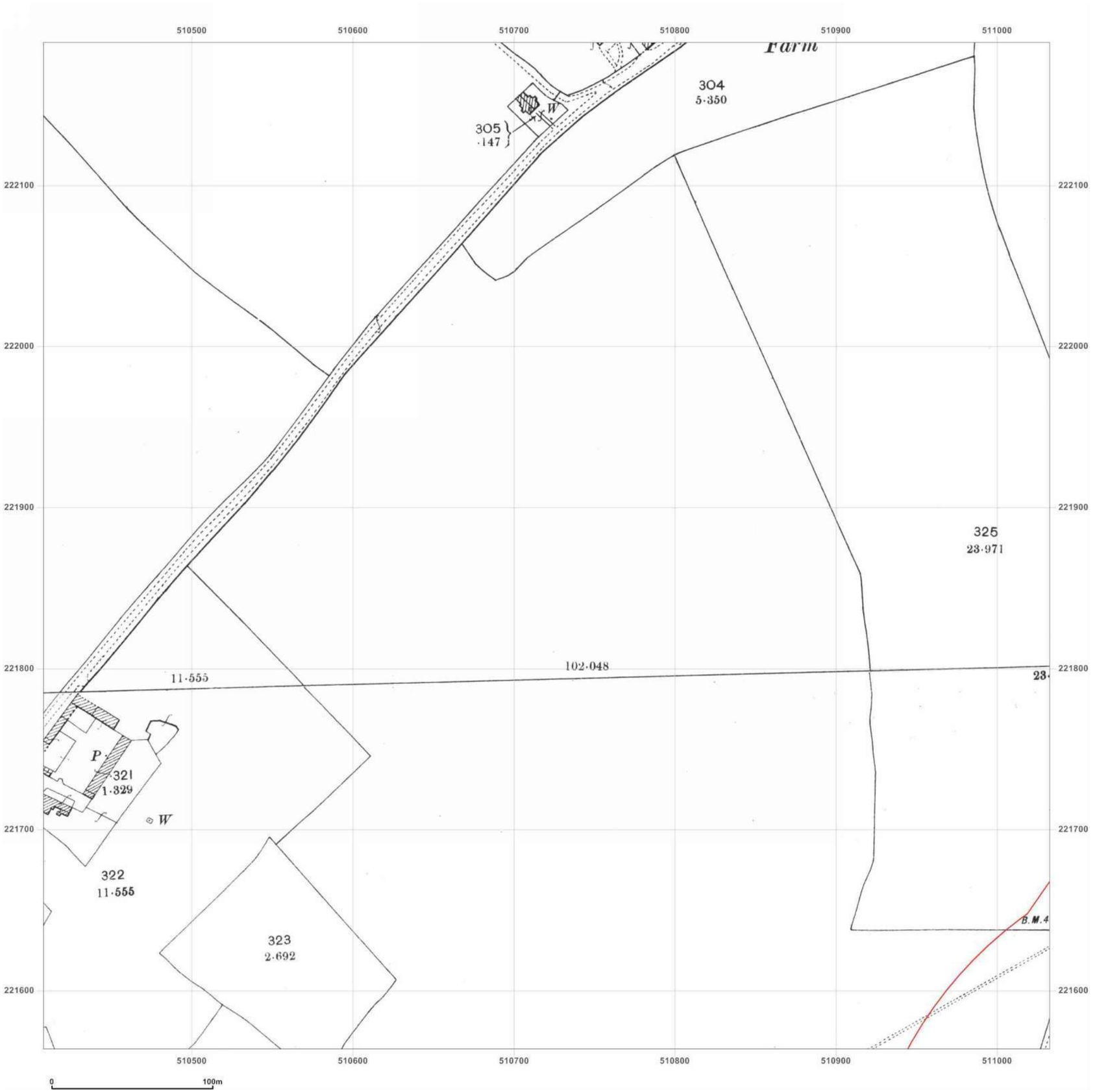

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_4
Grid Ref: 510720, 221876

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
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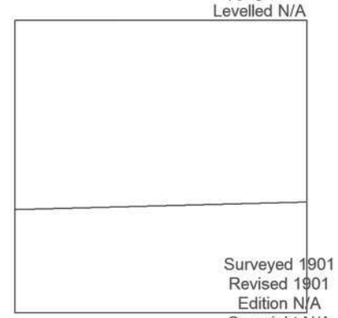
Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



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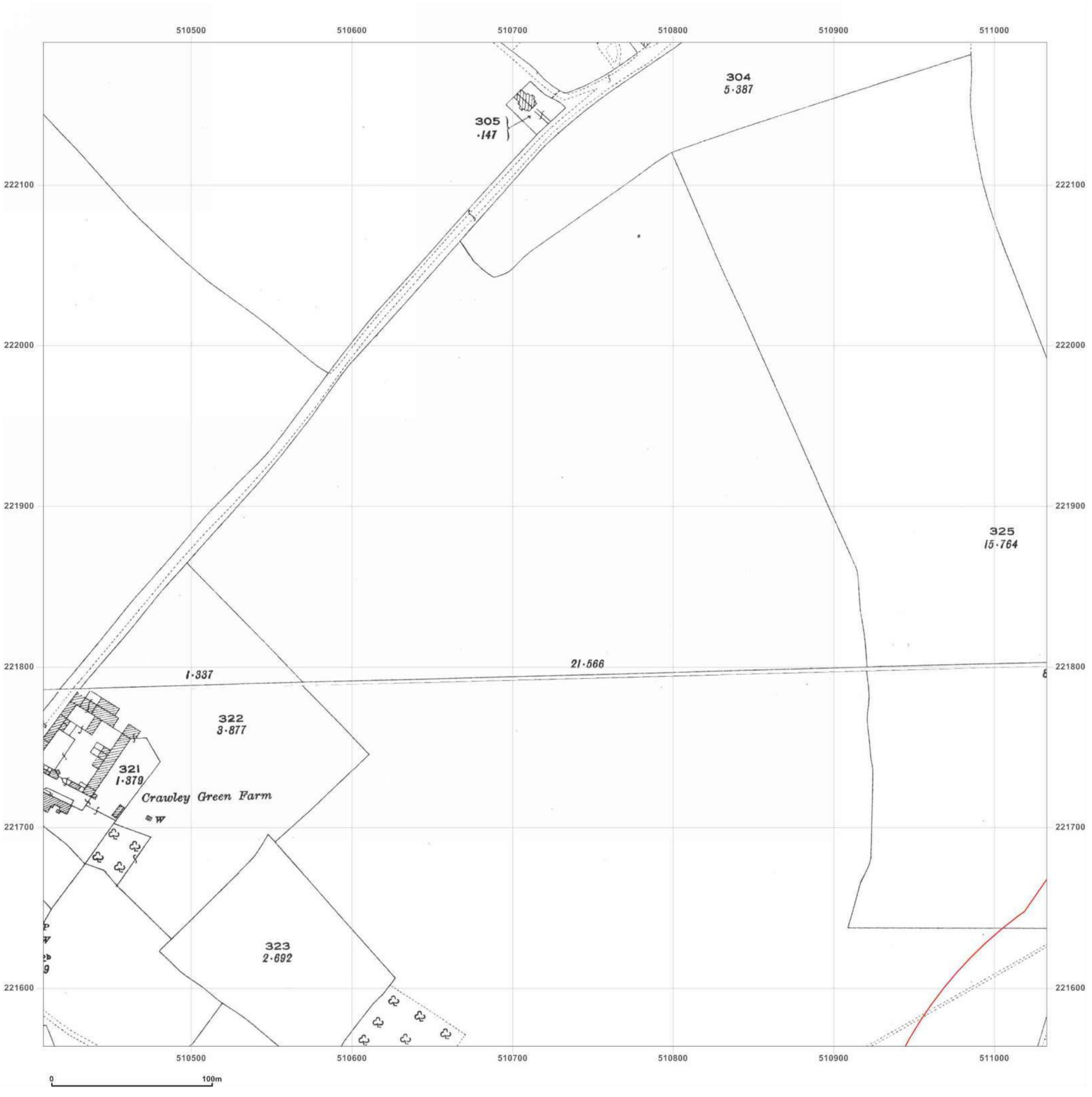


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_4
Grid Ref: 510720, 221876

Map Name: County Series

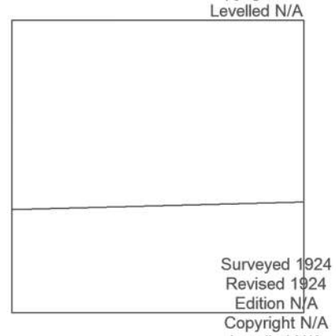
Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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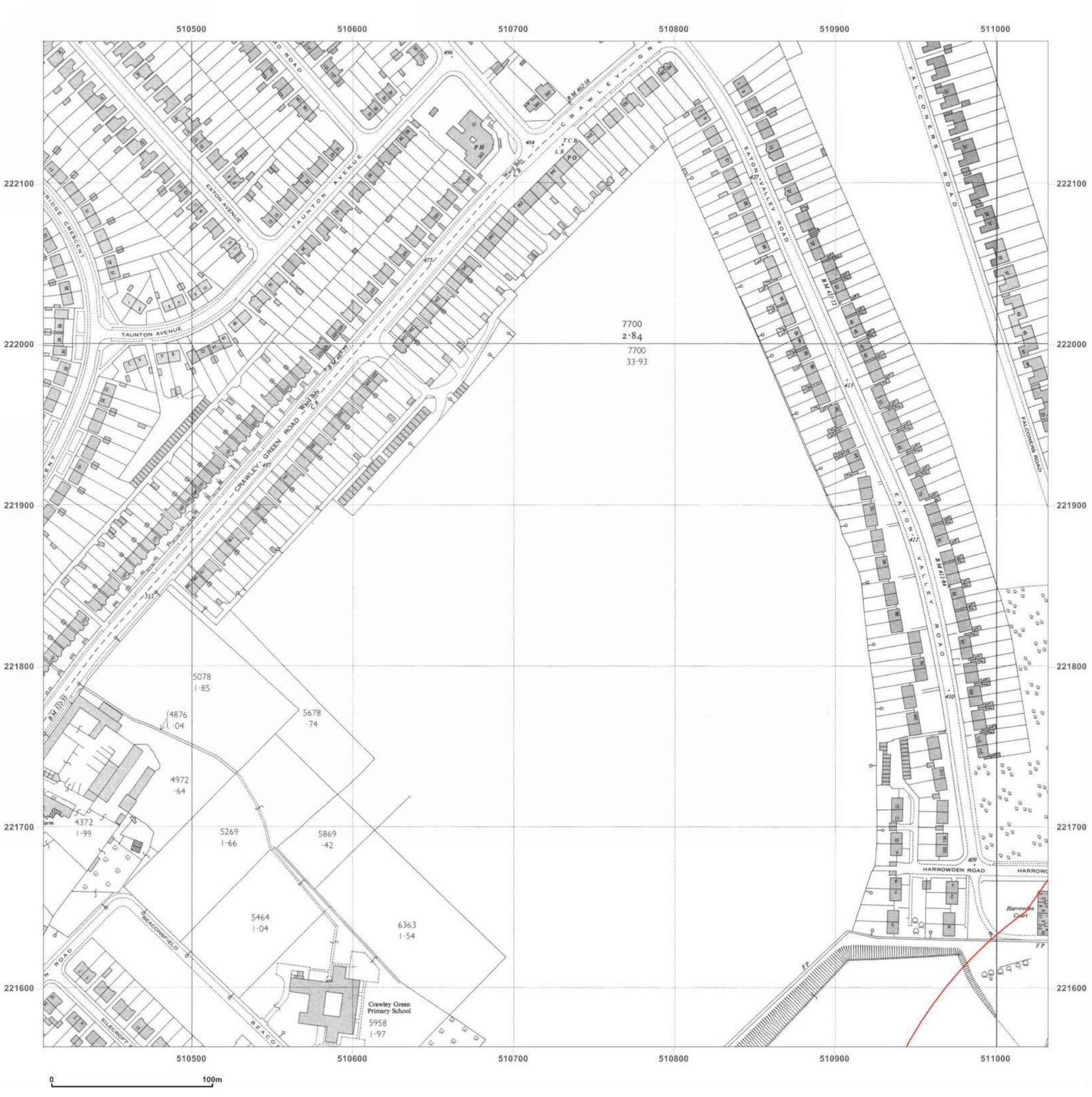

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_1_4
Grid Ref: 510720, 221876

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1958

Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958

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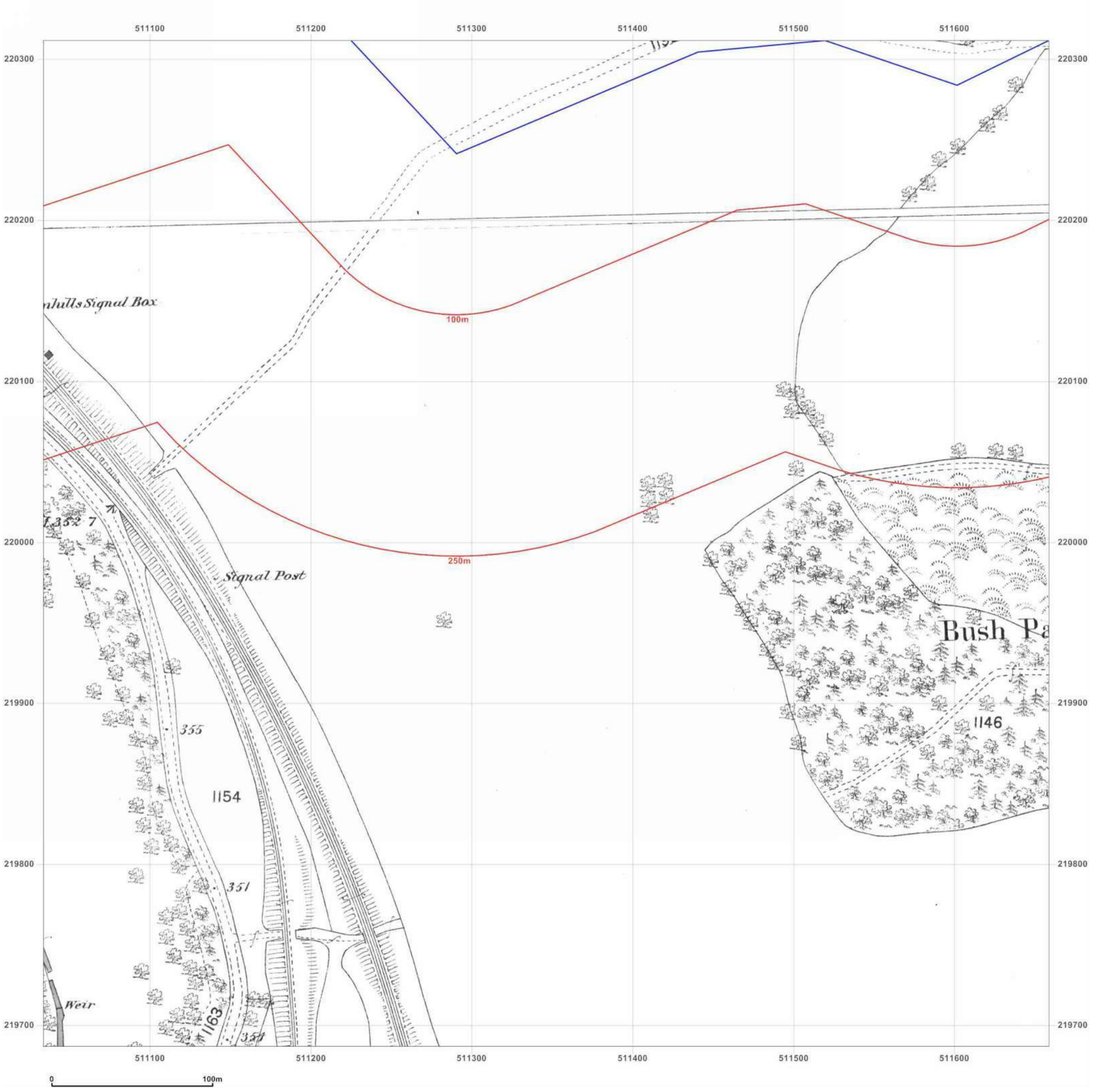

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_1
Grid Ref: 511346, 219999

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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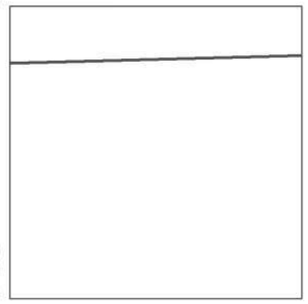
Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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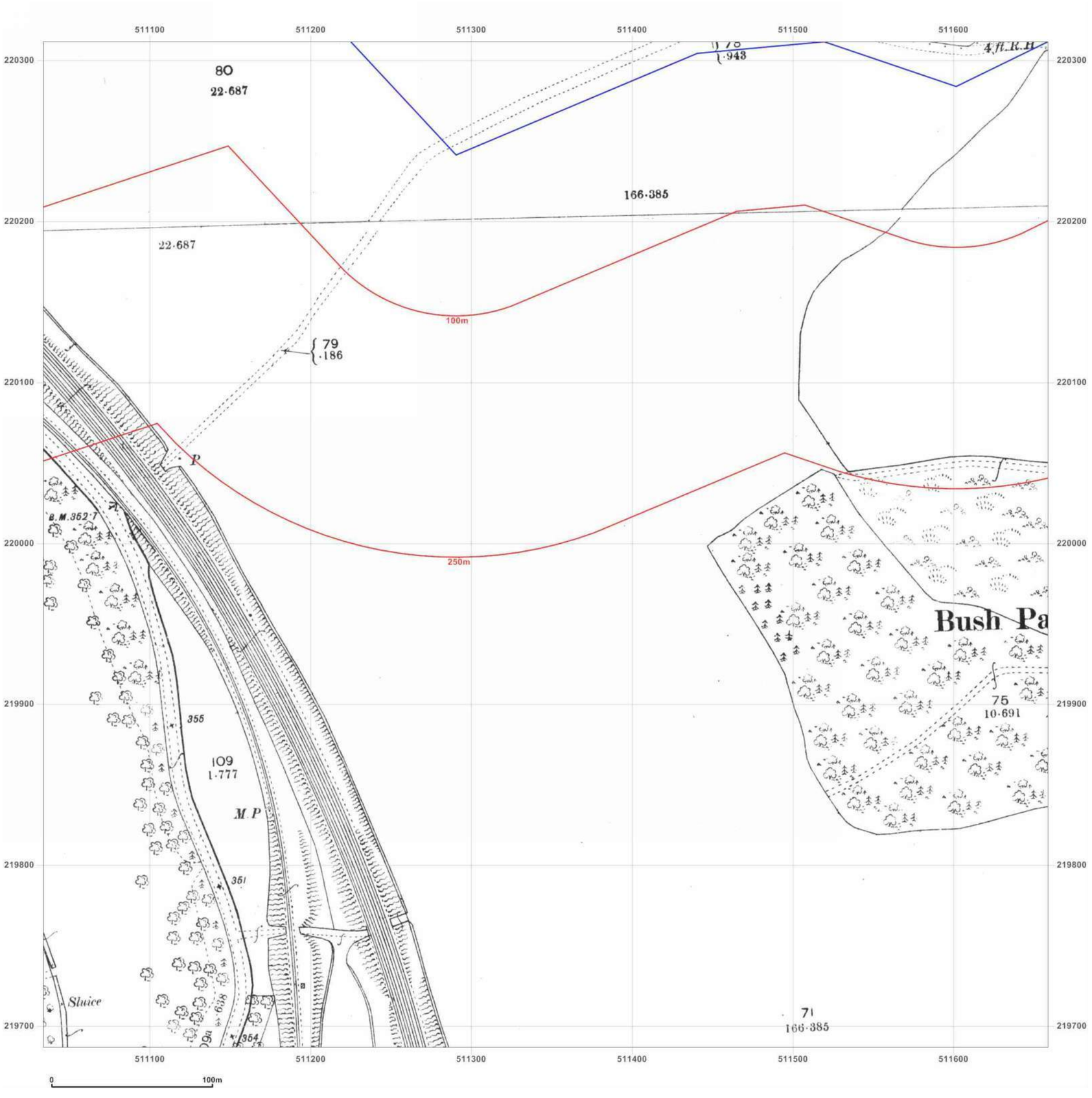


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_1
Grid Ref: 511346, 219999

Map Name: County Series

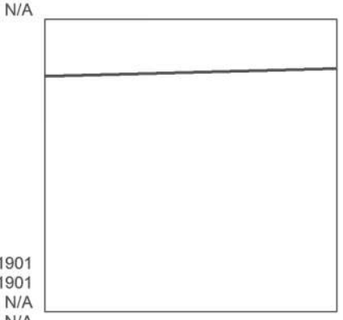
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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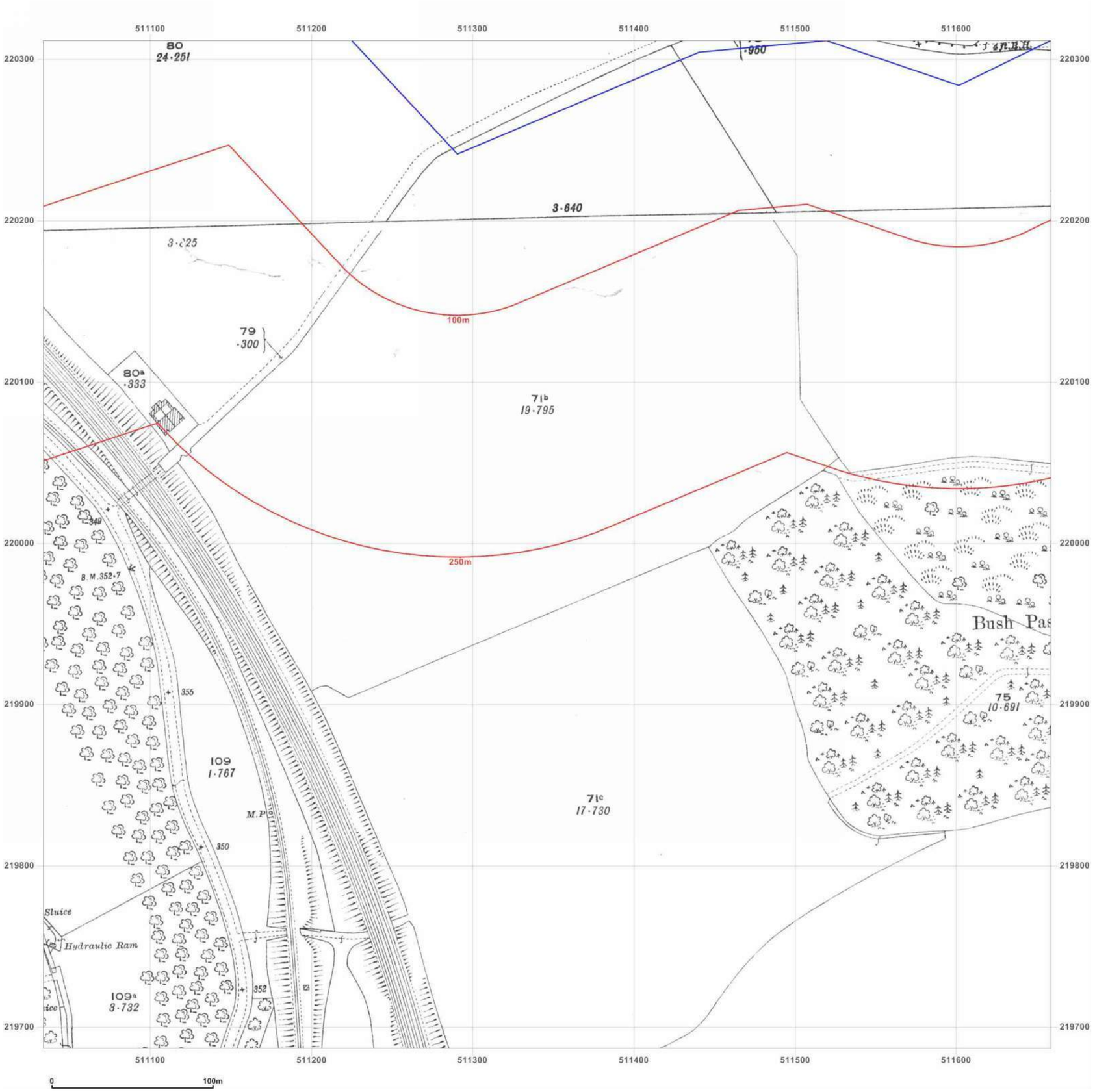

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_1
Grid Ref: 511346, 219999

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
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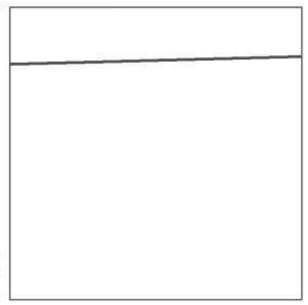
Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
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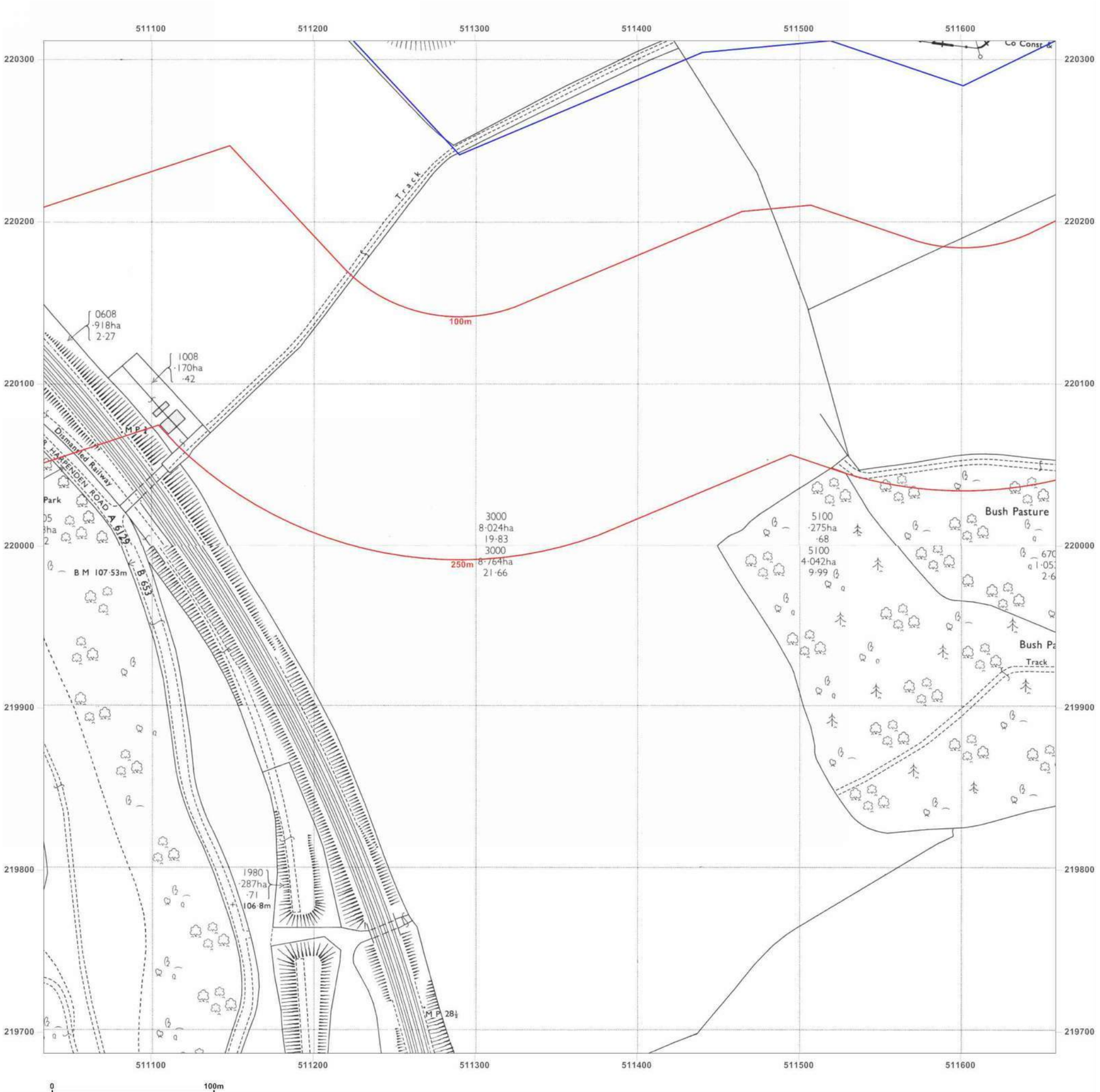

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_1
Grid Ref: 511346, 219999

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1962
Revised 1971
Edition N/A
Copyright 1973
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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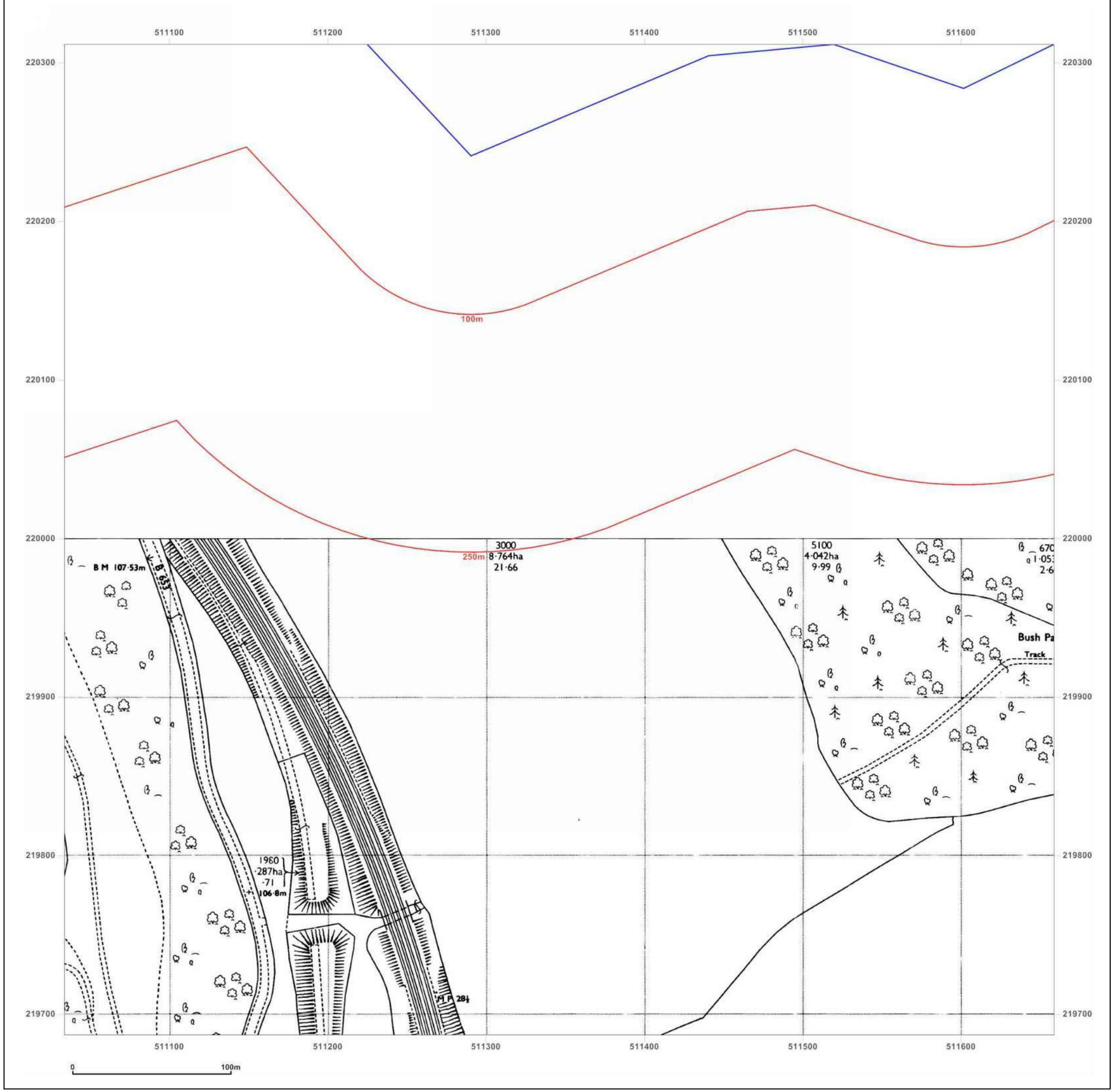

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_1
Grid Ref: 511346, 219999

Map Name: National Grid
Map date: **1972**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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

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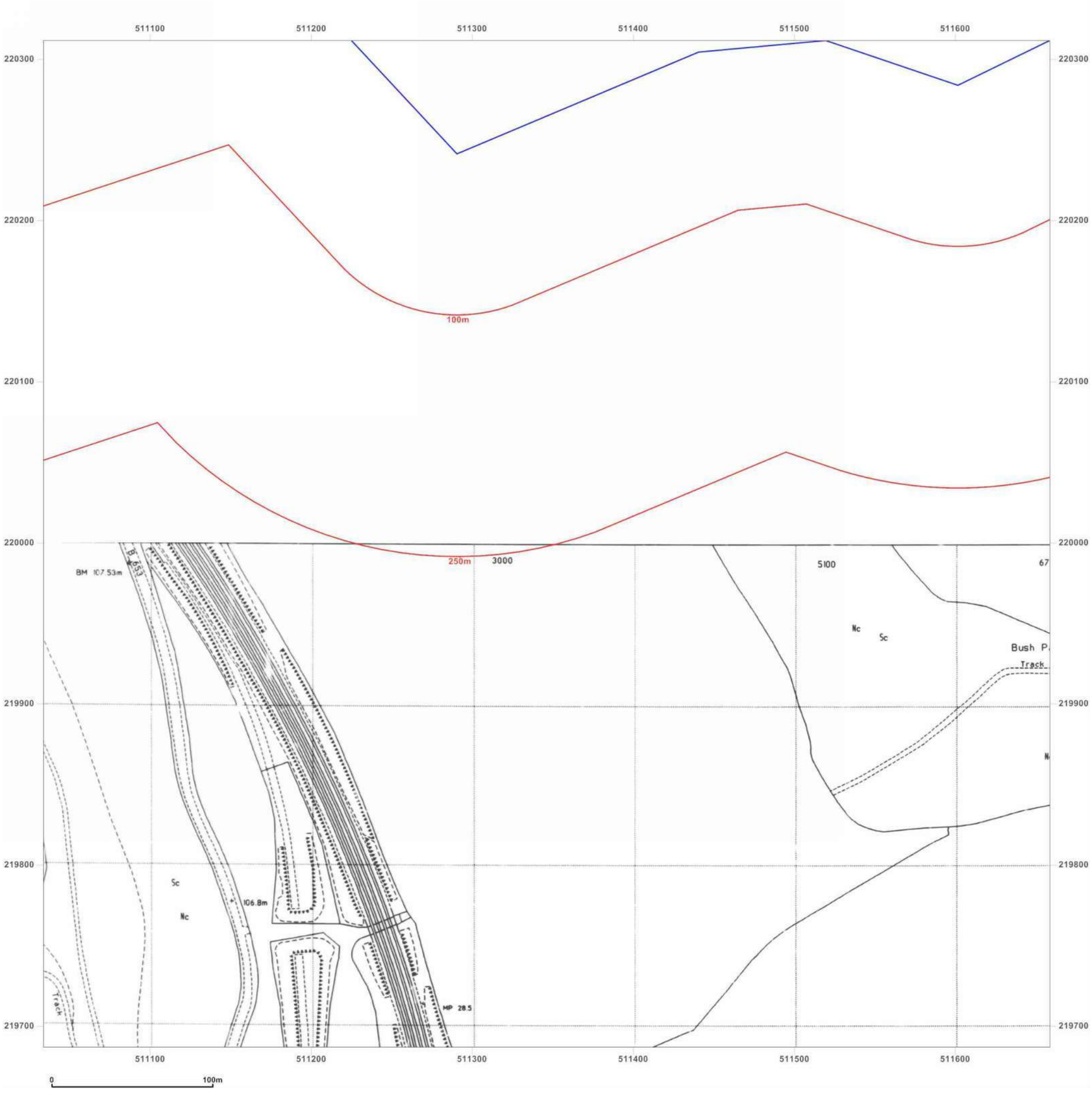

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_1
Grid Ref: 511346, 219999

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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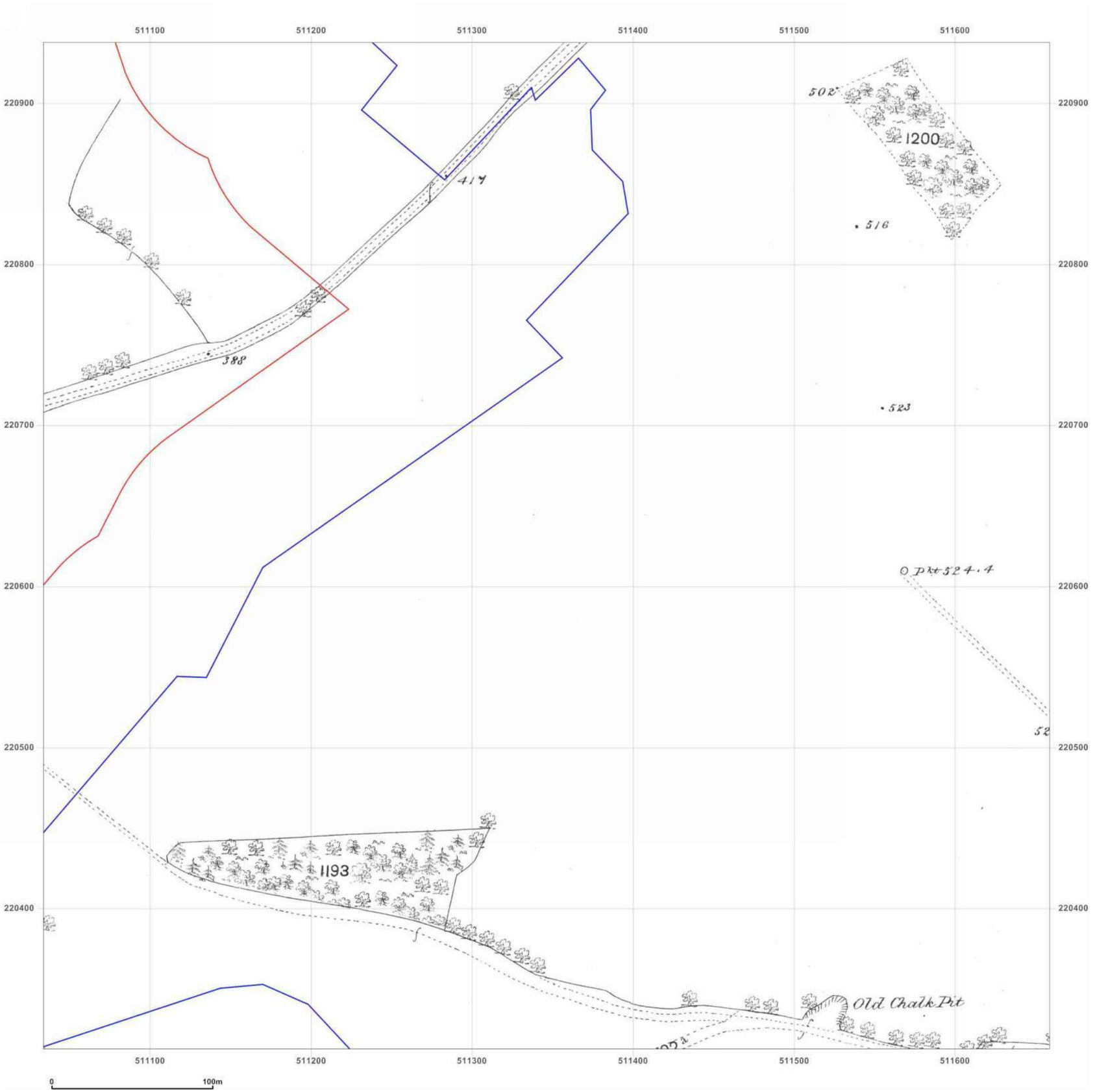

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_2
Grid Ref: 511346, 220625

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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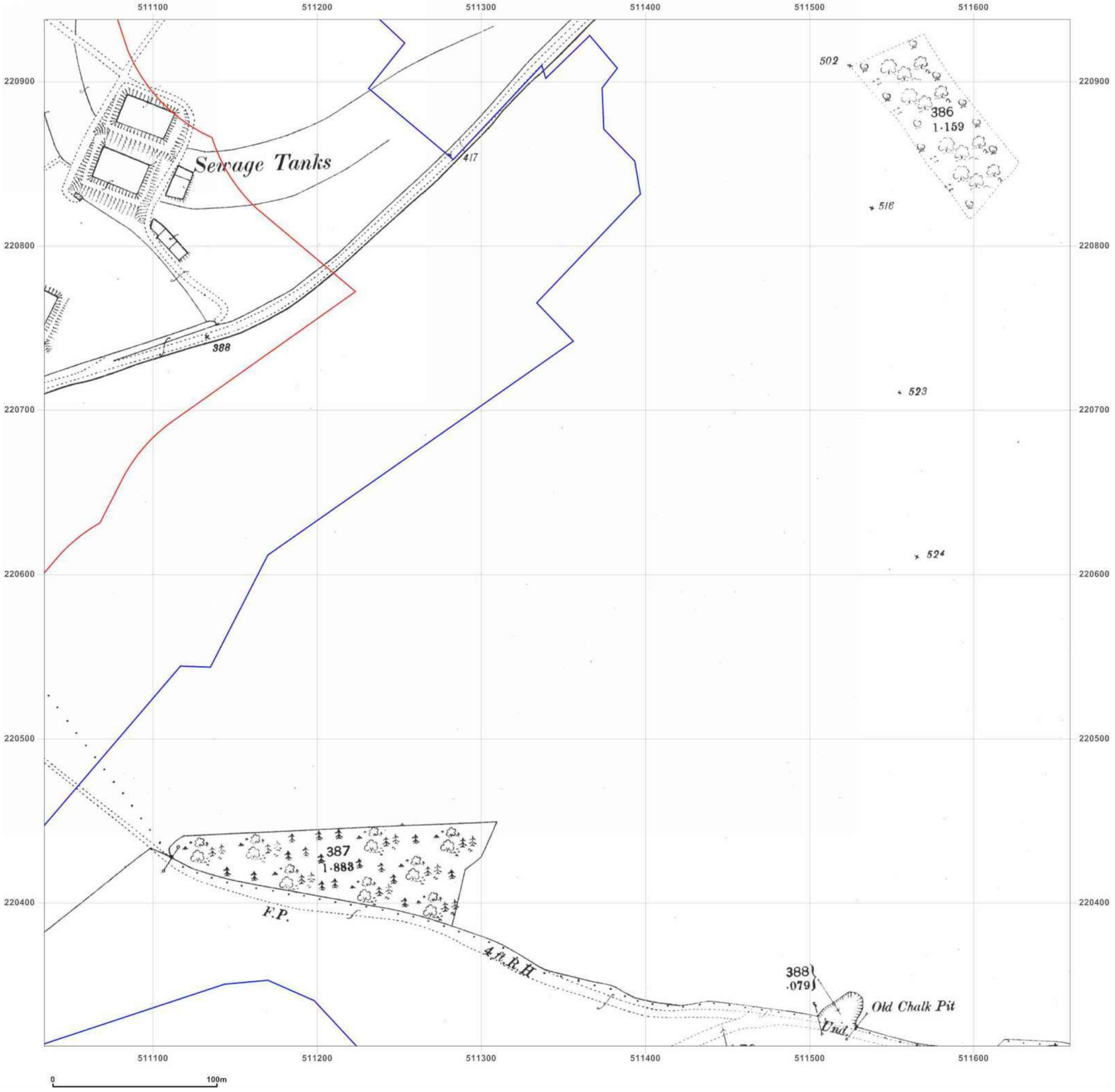

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_2
Grid Ref: 511346, 220625

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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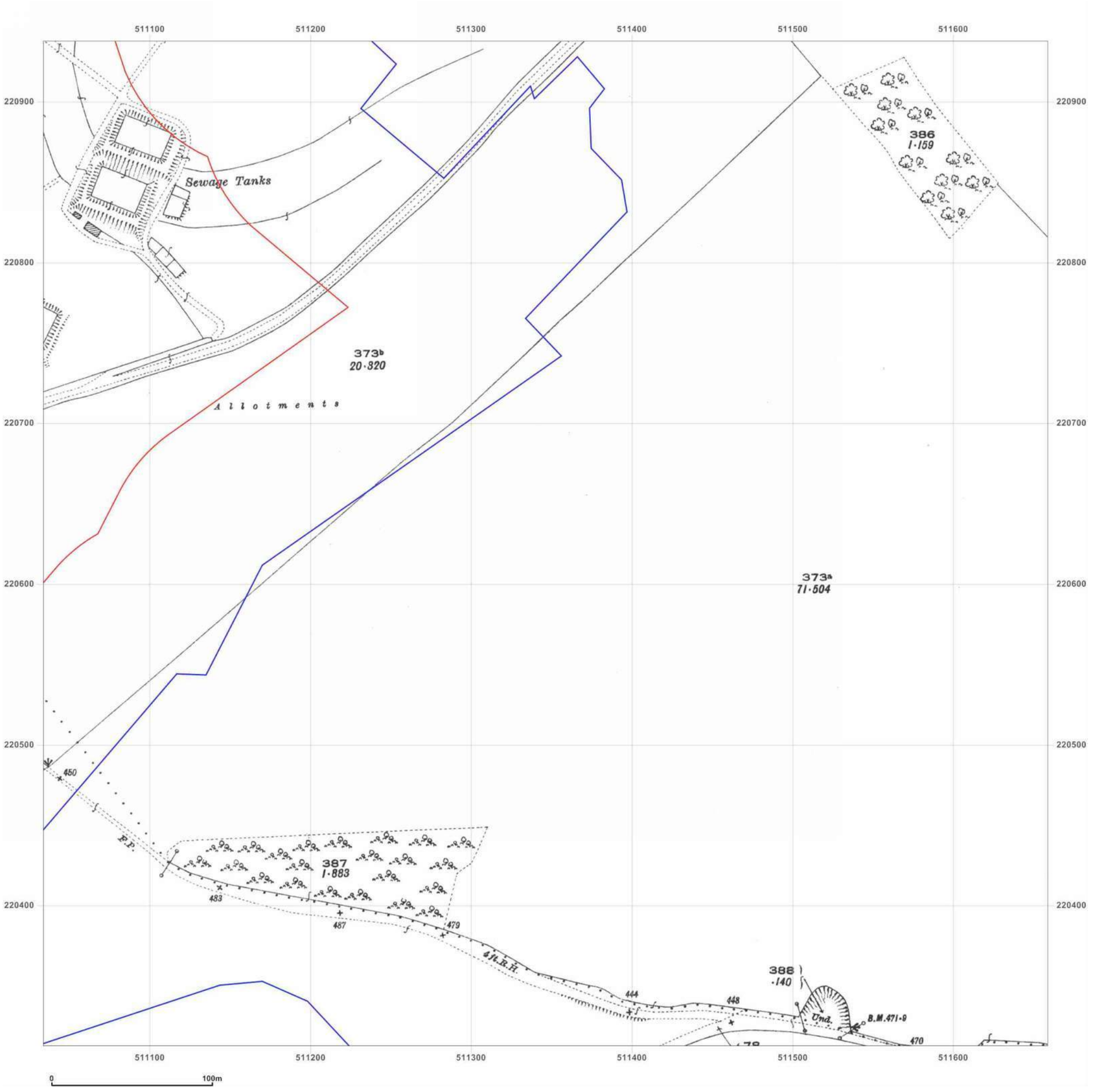

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_2
Grid Ref: 511346, 220625

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_2
Grid Ref: 511346, 220625

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1971
Edition N/A
Copyright 1973
Levelled 1958

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Production date: 20 November 2020

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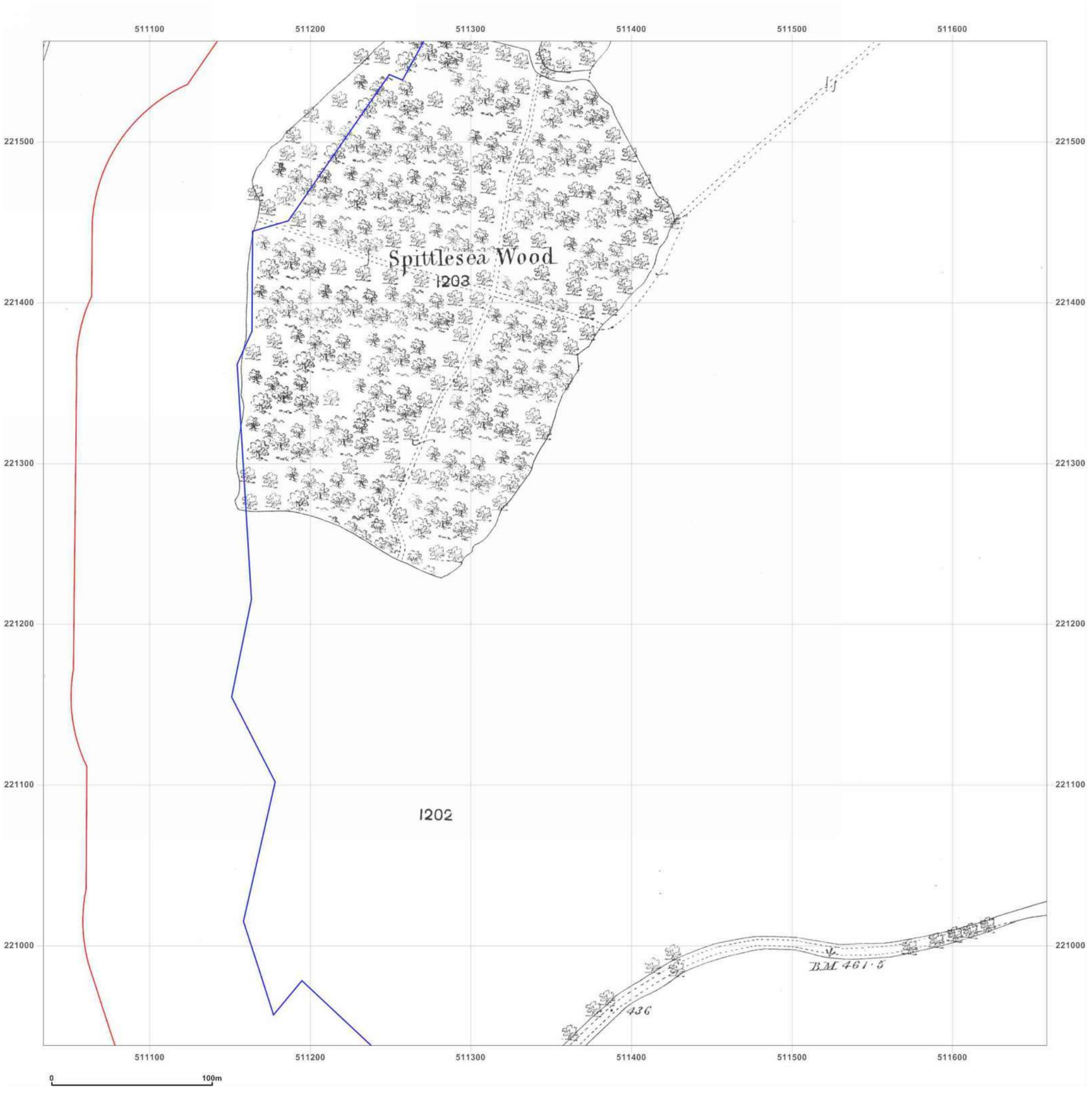

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_3
Grid Ref: 511346, 221250

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_3
Grid Ref: 511346, 221250

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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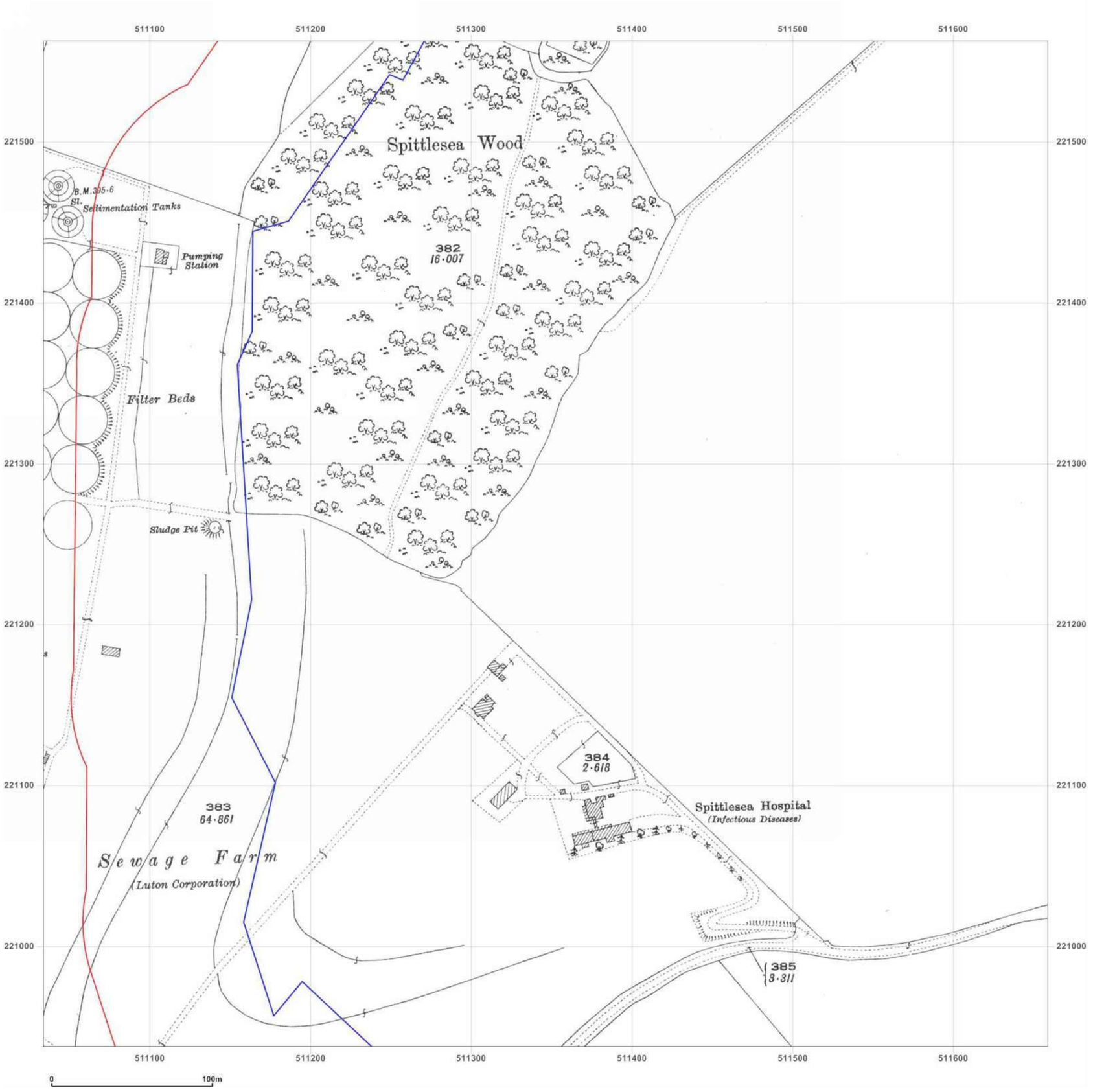

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_3
Grid Ref: 511346, 221250

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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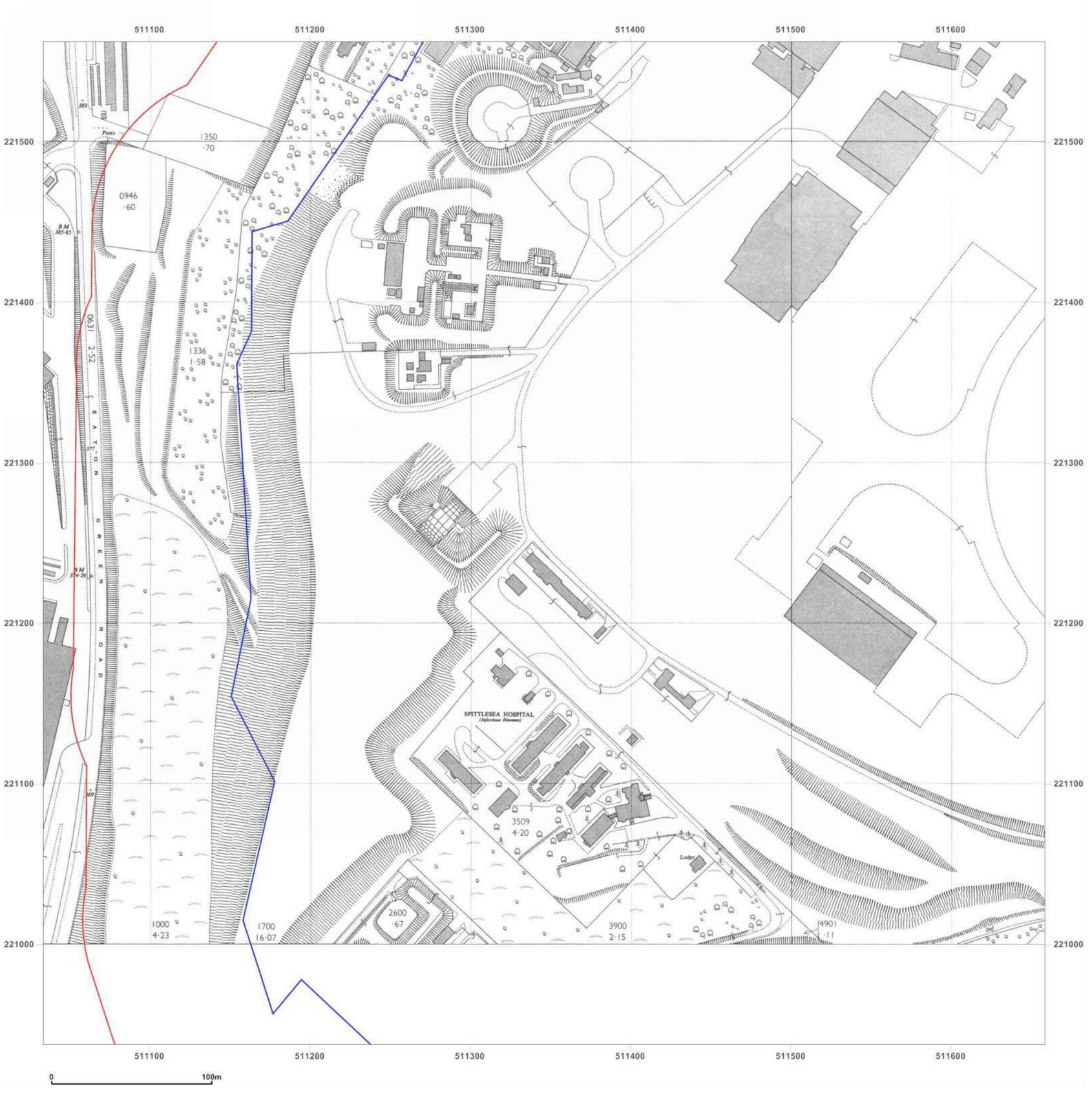

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_3
Grid Ref: 511346, 221250

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958

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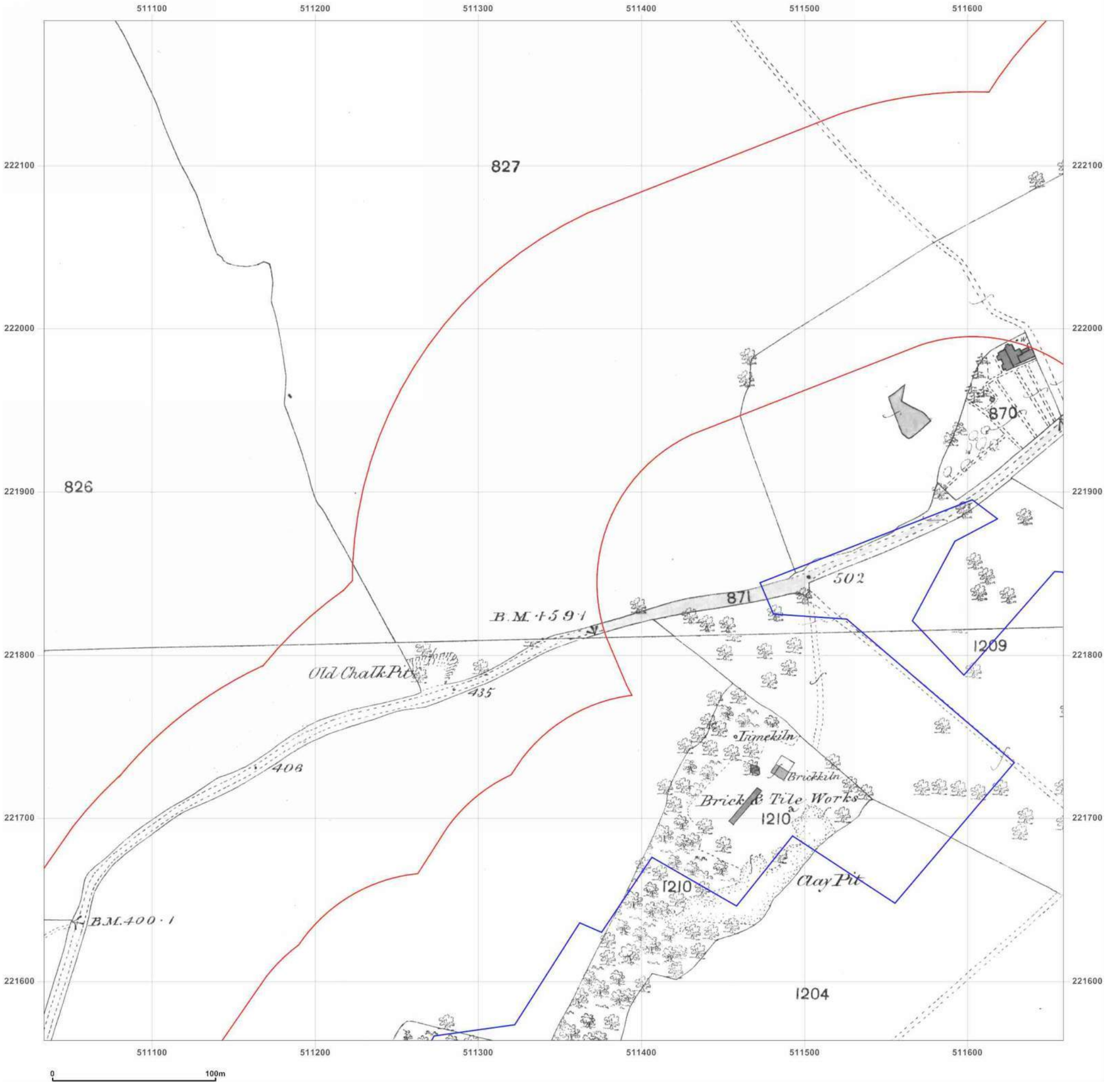


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_4
Grid Ref: 511346, 221876

Map Name: County Series

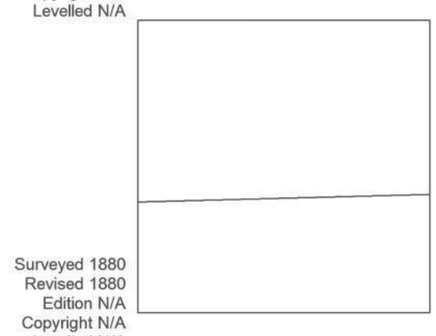
Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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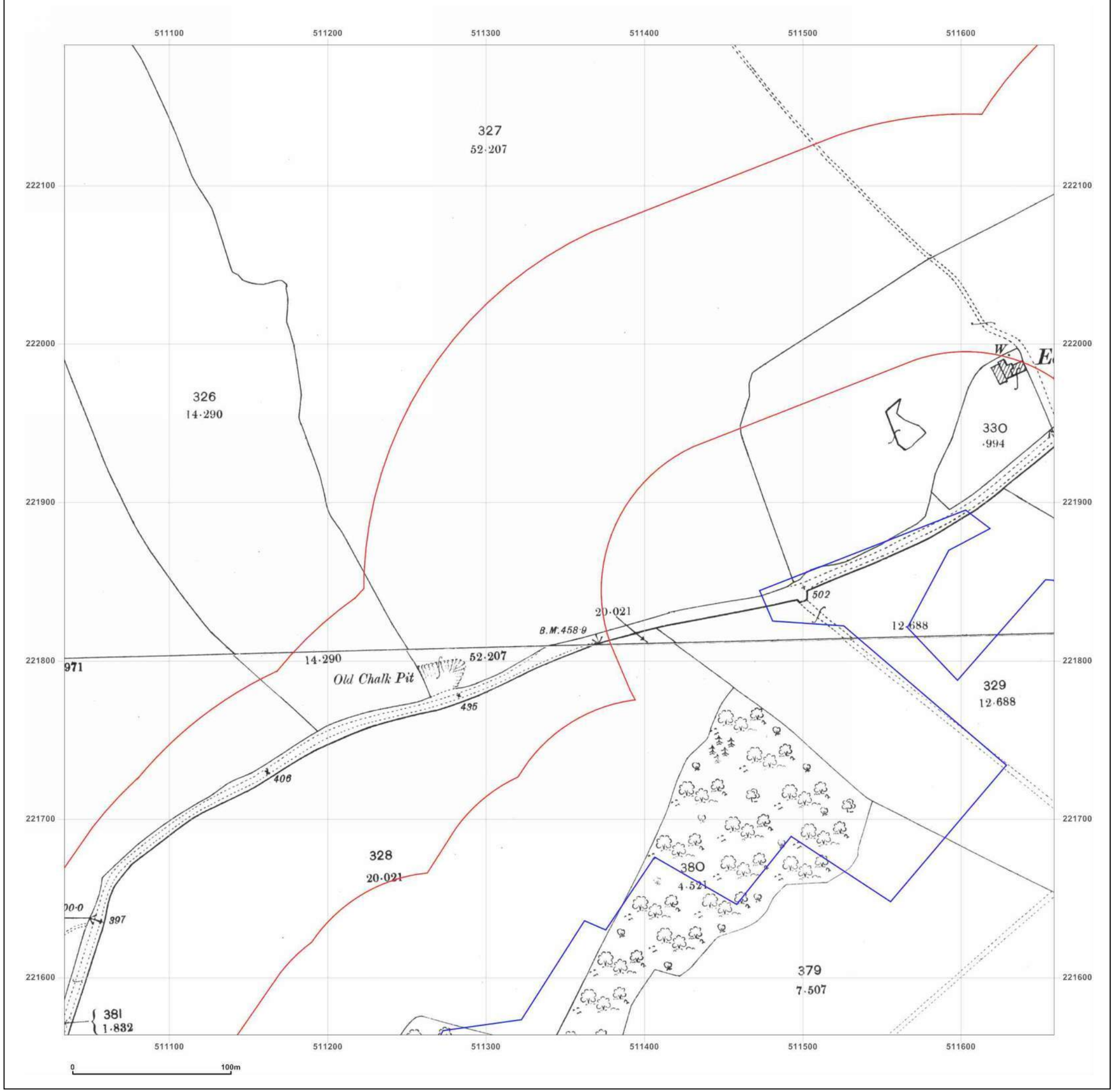


Groundsure INSIGHTS

Site Details:

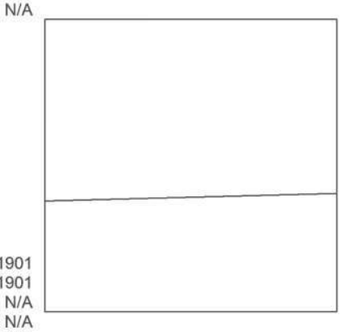
Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_4
Grid Ref: 511346, 221876

Map Name: County Series
Map date: **1901**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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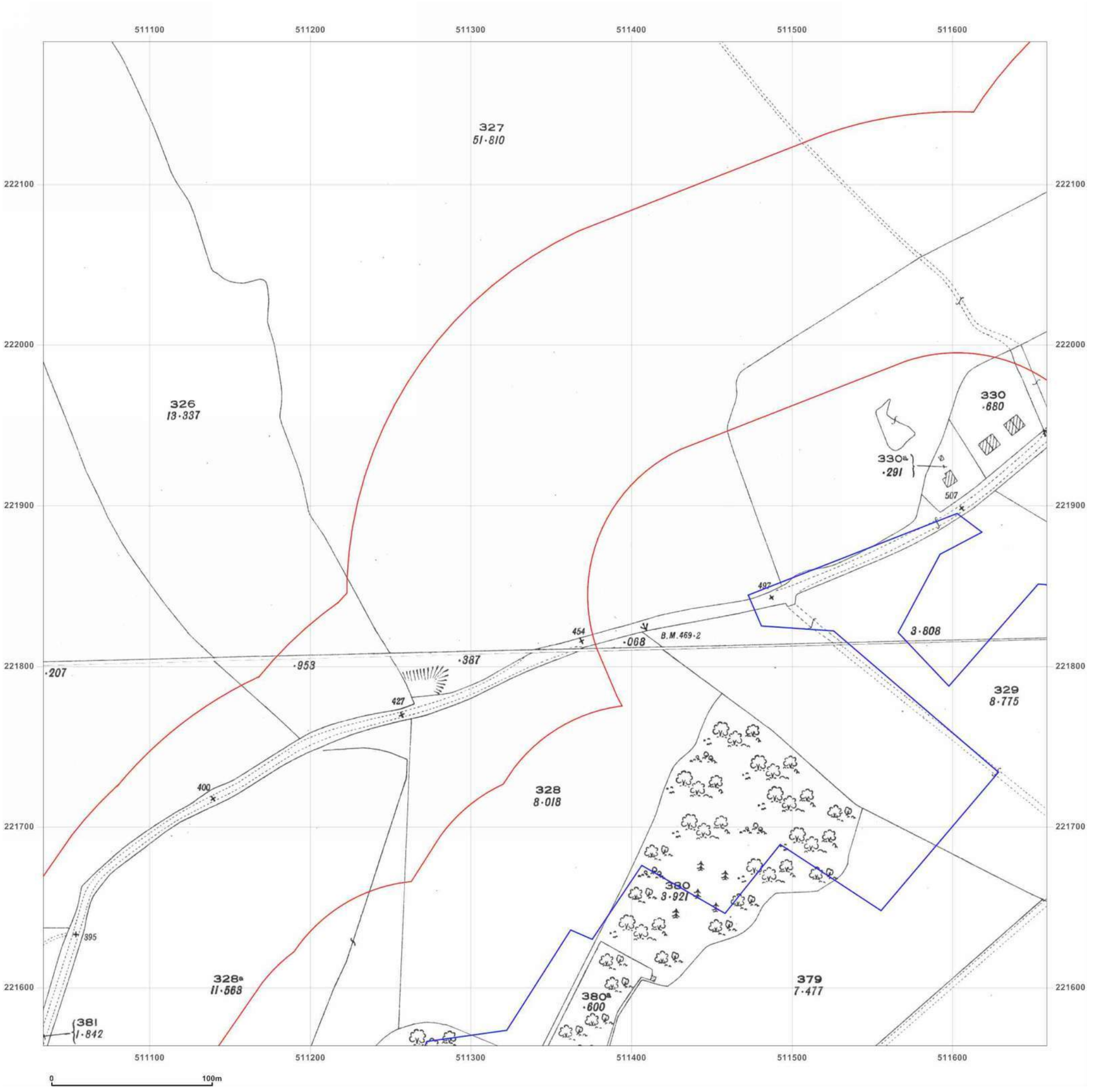


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_4
Grid Ref: 511346, 221876

Map Name: County Series

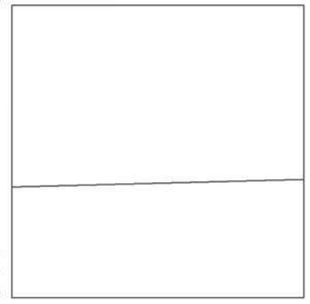
Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_2_4
Grid Ref: 511346, 221876

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1958

Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958

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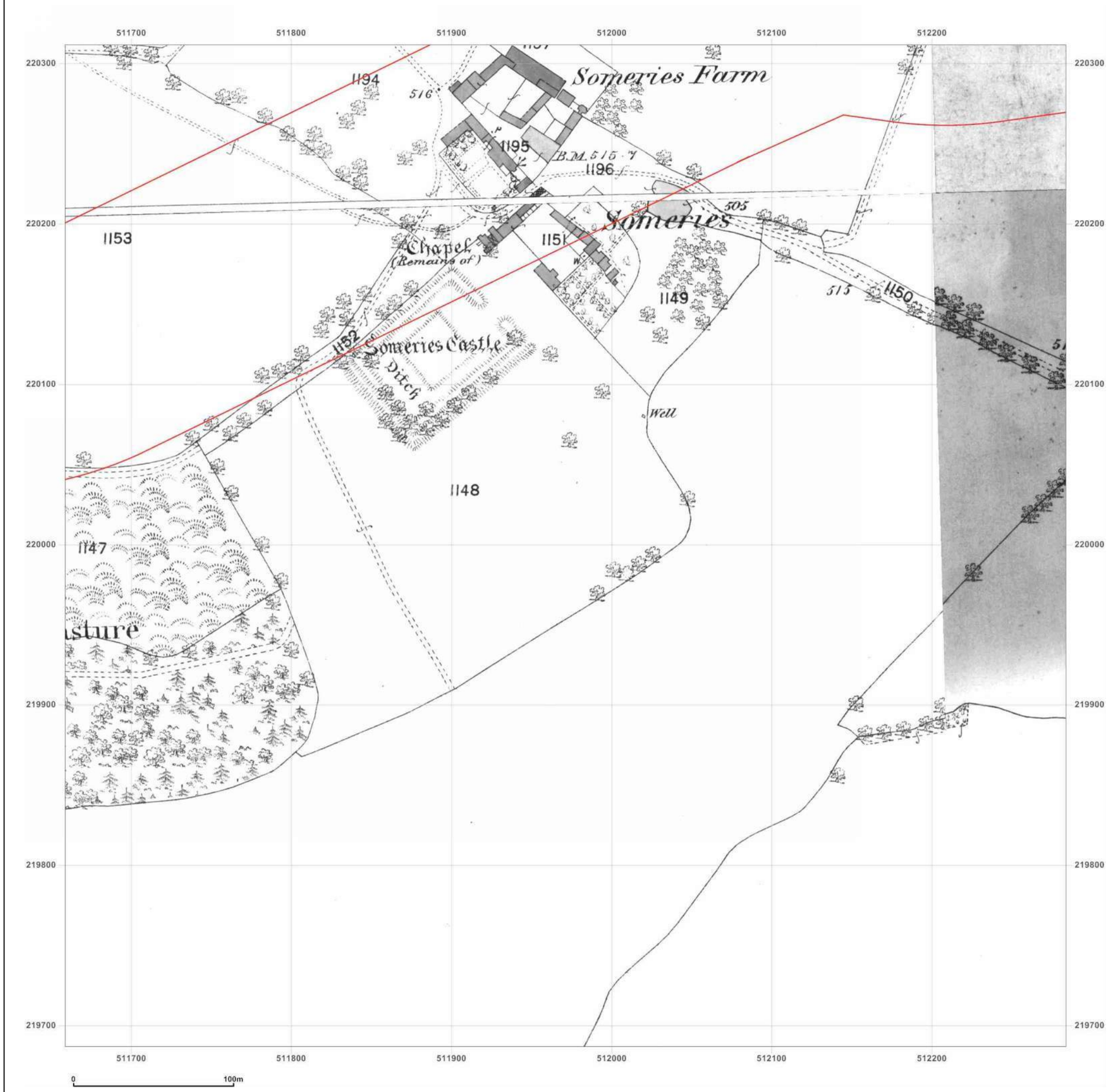


Groundsure INSIGHTS

Site Details:

Luton Airport

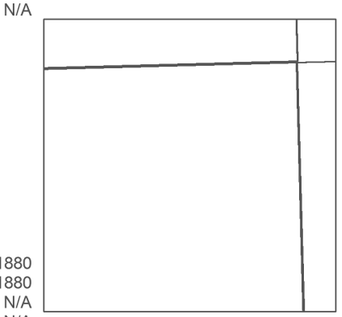
Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_1
Grid Ref: 511971, 219999

Map Name: County Series
Map date: **1880-1881**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
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Levelled N/A

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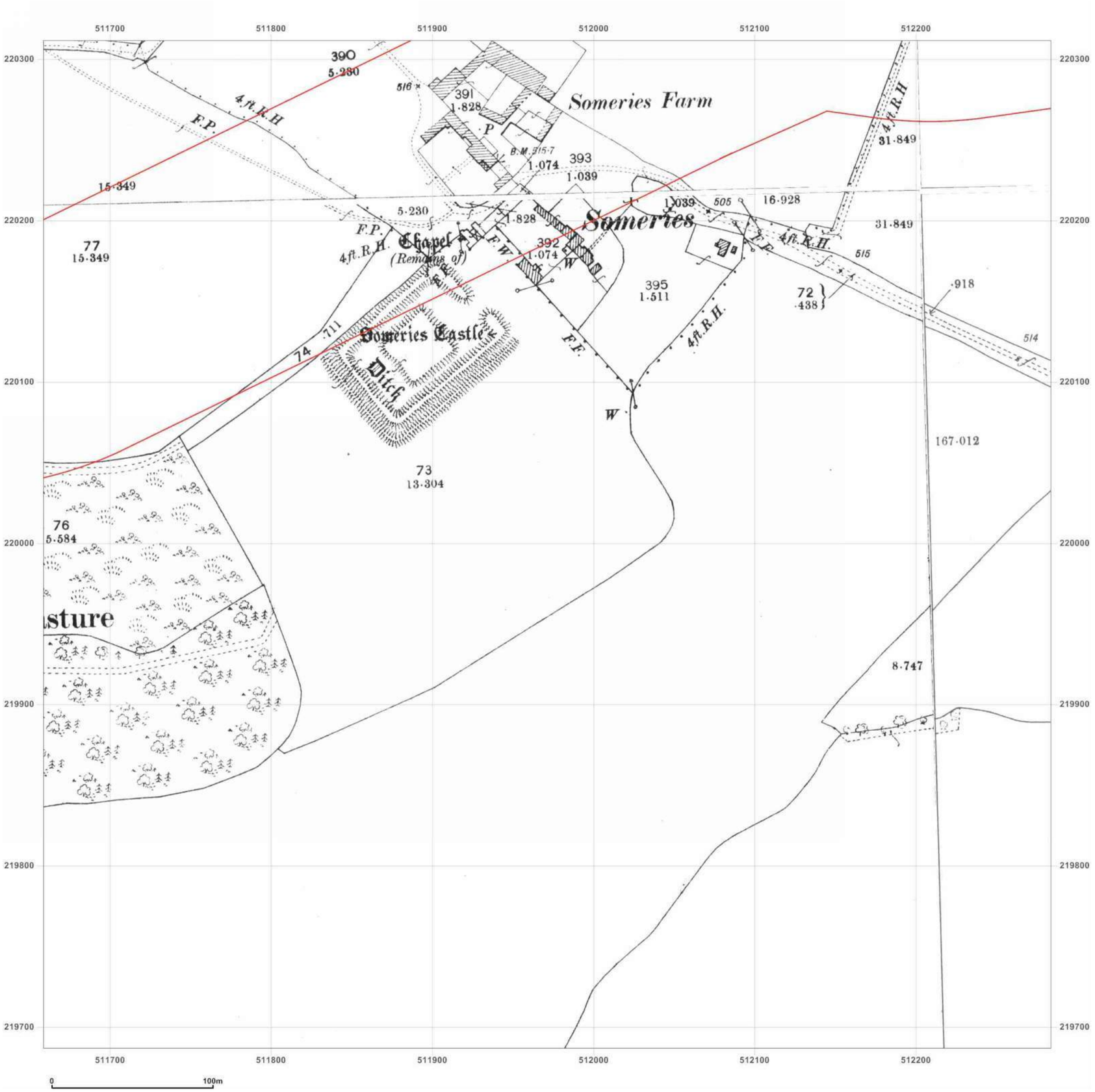


Groundsure INSIGHTS

Site Details:

Luton Airport

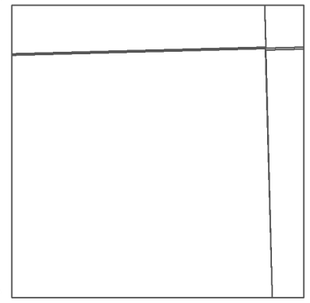
Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_1
Grid Ref: 511971, 219999

Map Name: County Series
Map date: **1898-1901**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

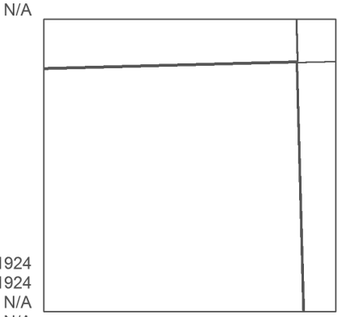
Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_1
Grid Ref: 511971, 219999

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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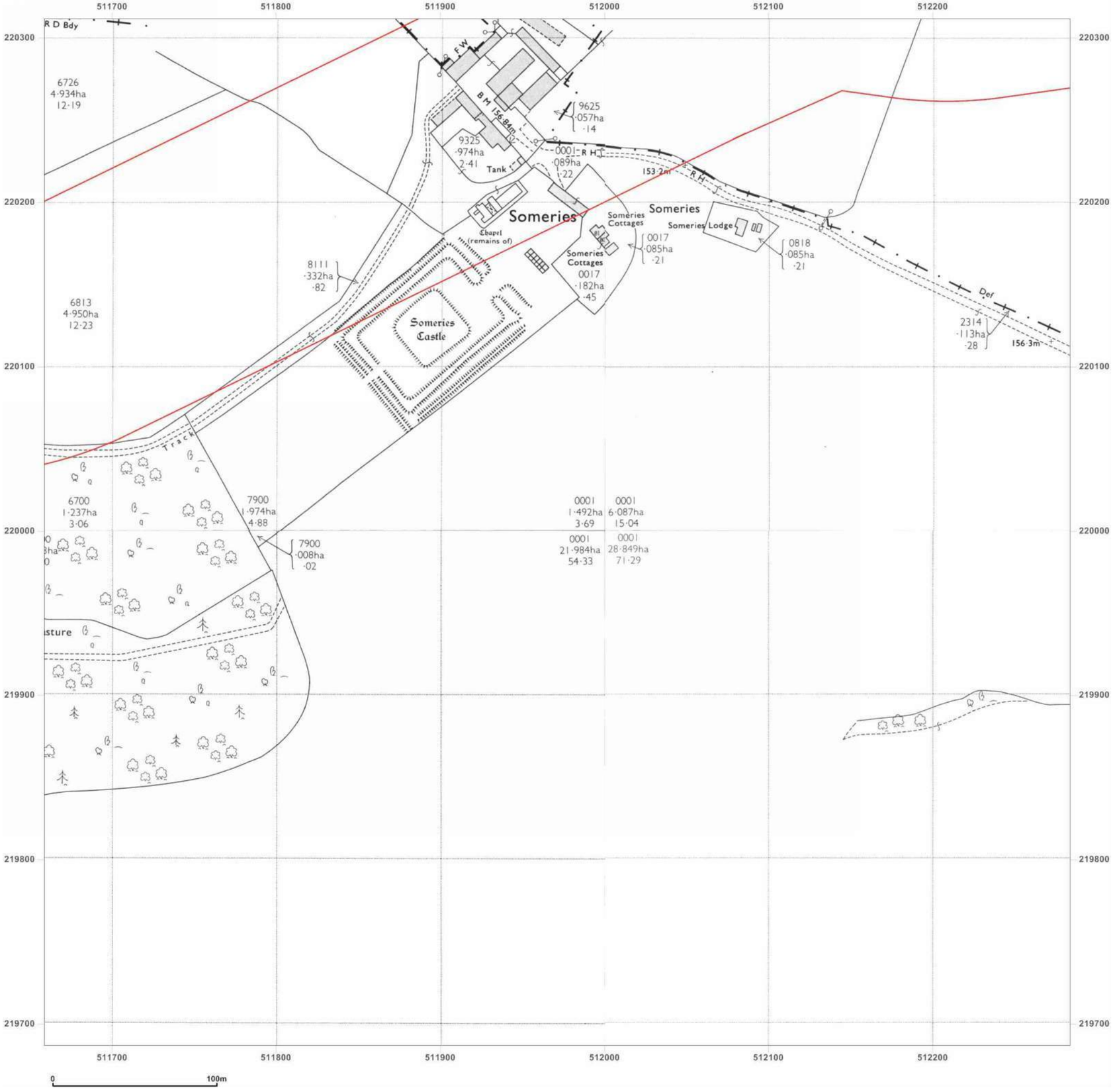

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_1
Grid Ref: 511971, 219999

Map Name: National Grid
Map date: **1971**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1971
Edition N/A
Copyright 1973
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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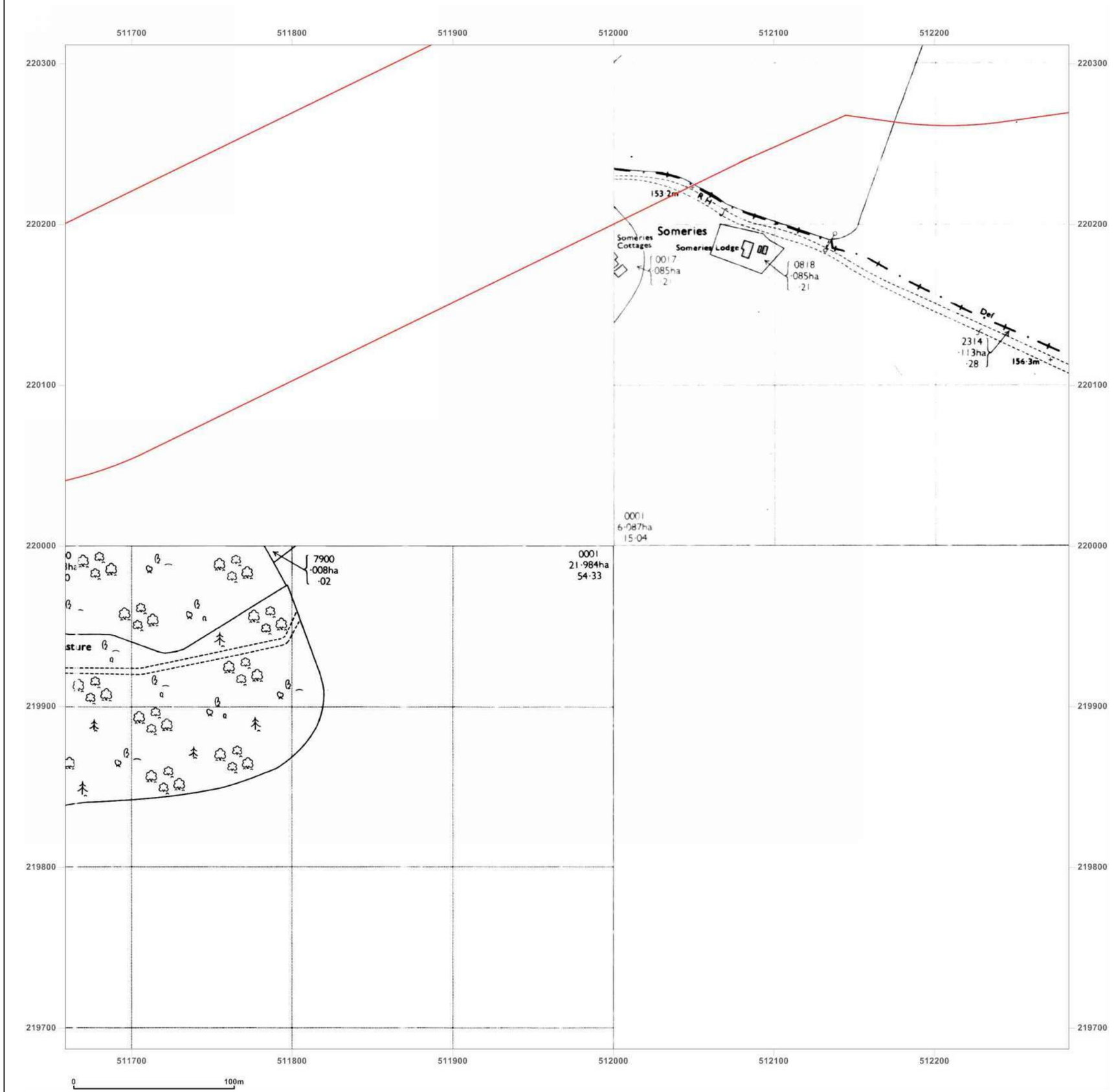


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_1
Grid Ref: 511971, 219999

Map Name: National Grid

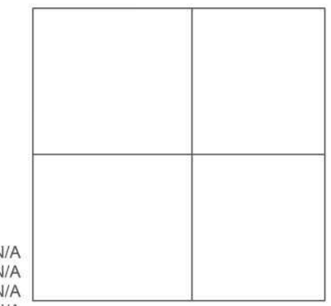
Map date: **1972-1973**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



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

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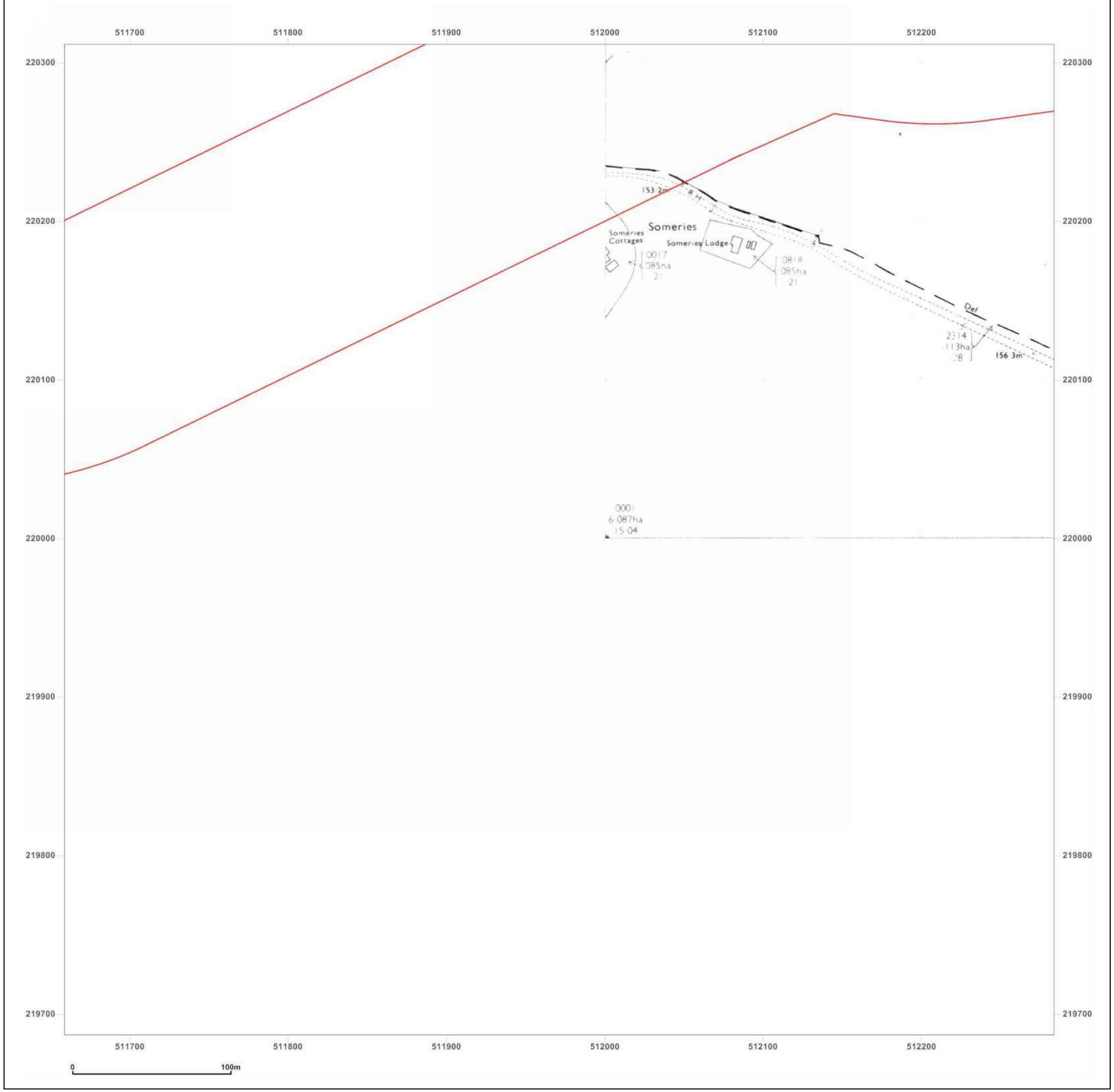


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_1
Grid Ref: 511971, 219999

Map Name: National Grid

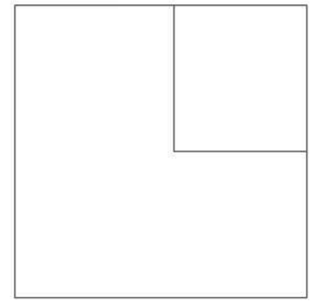
Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958



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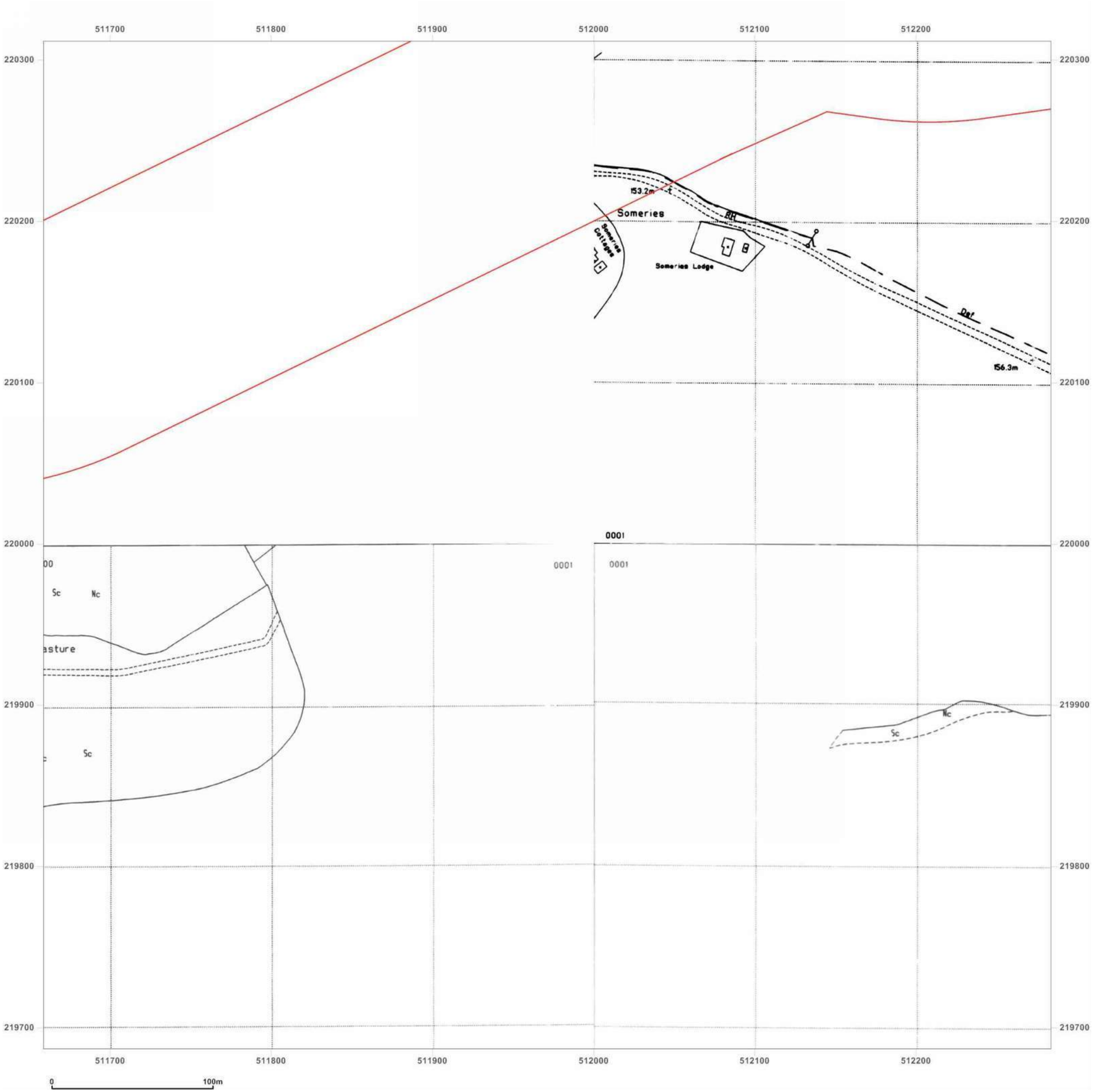

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_1
Grid Ref: 511971, 219999

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Production date: 20 November 2020

Map legend available at:
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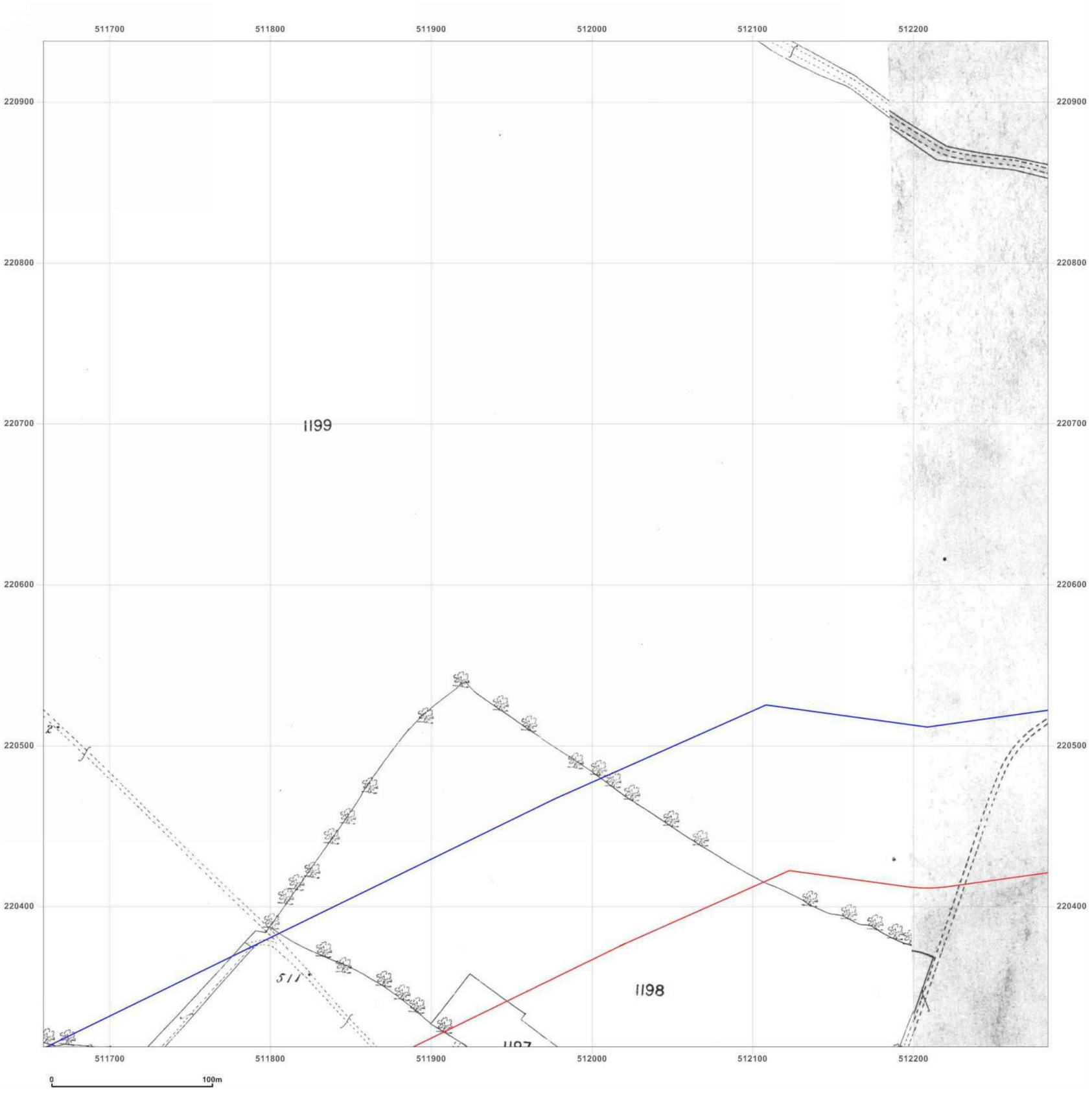


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_2
Grid Ref: 511971, 220625

Map Name: County Series

Map date: **1880-1881**

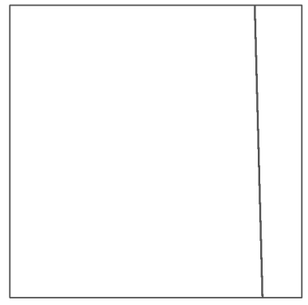
Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



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Production date: 20 November 2020

Map legend available at:
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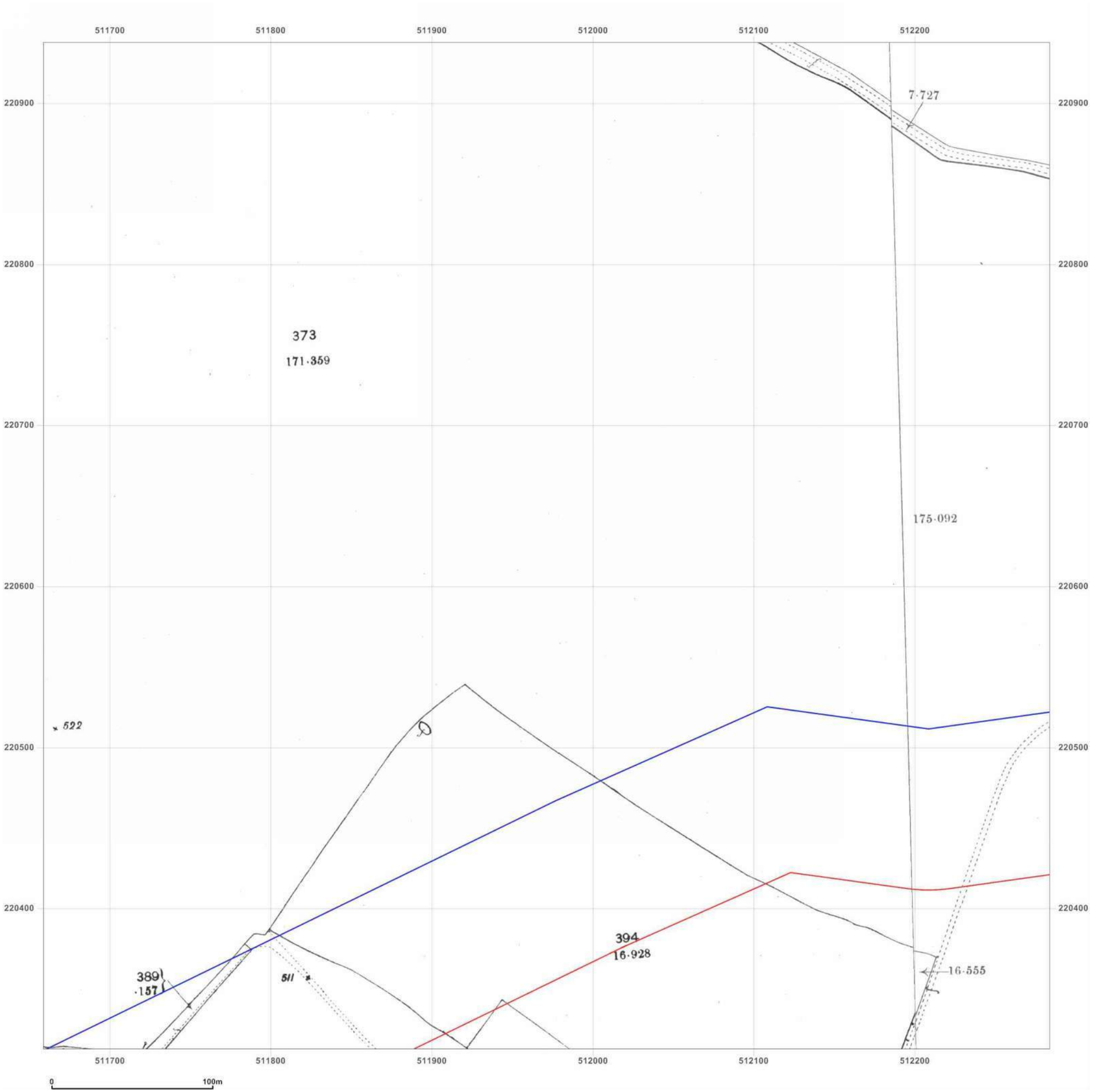

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_2
Grid Ref: 511971, 220625

Map Name: County Series

Map date: **1898-1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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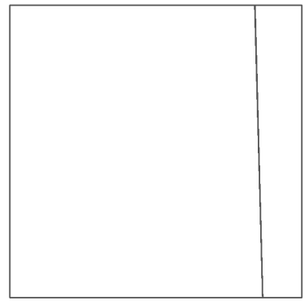
Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A



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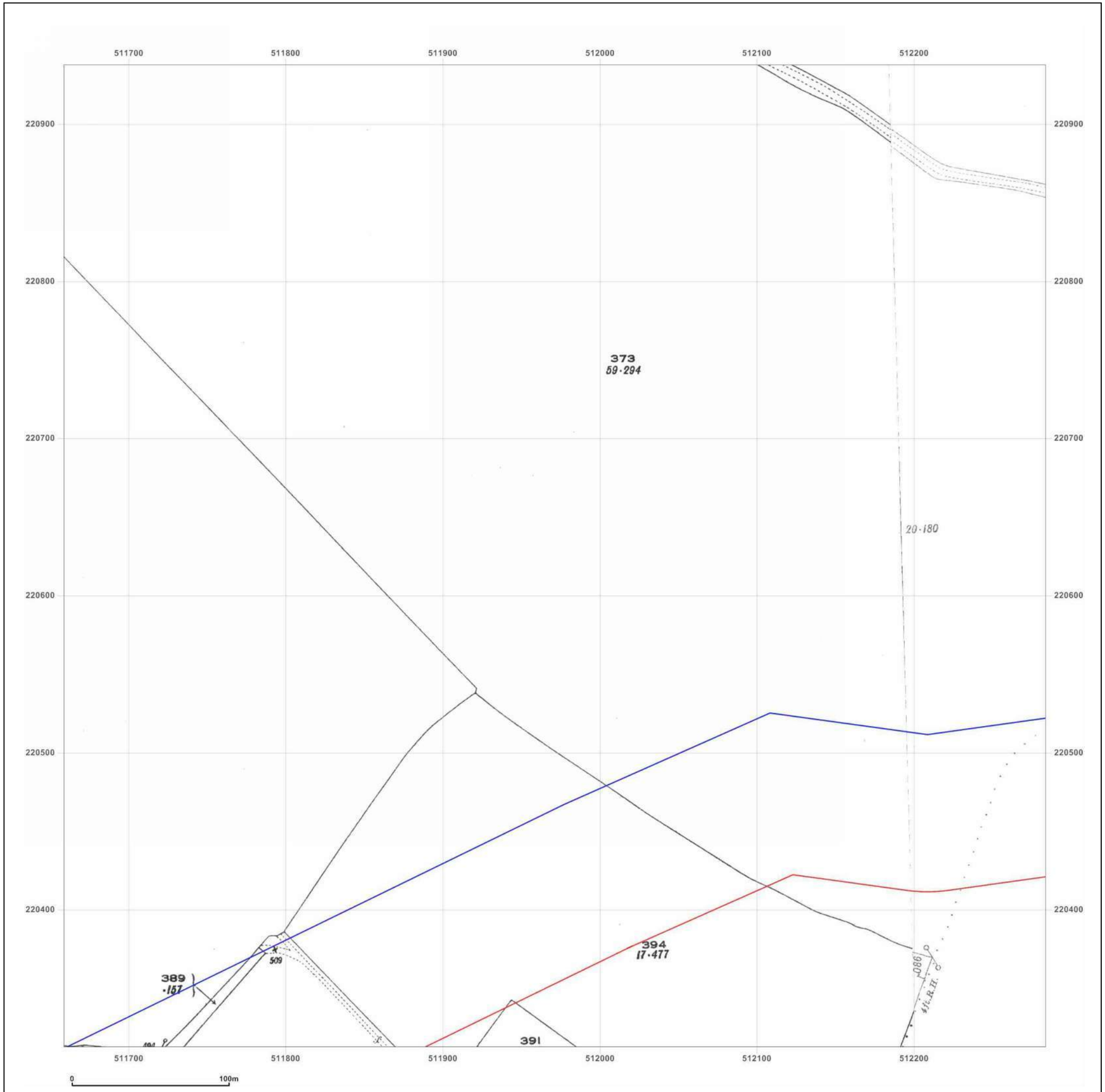


Groundsure INSIGHTS

Site Details:

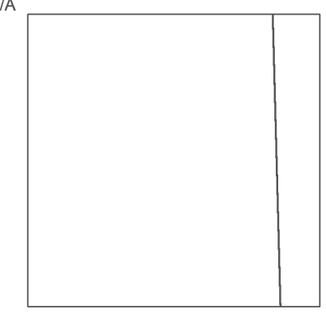
Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_2
Grid Ref: 511971, 220625

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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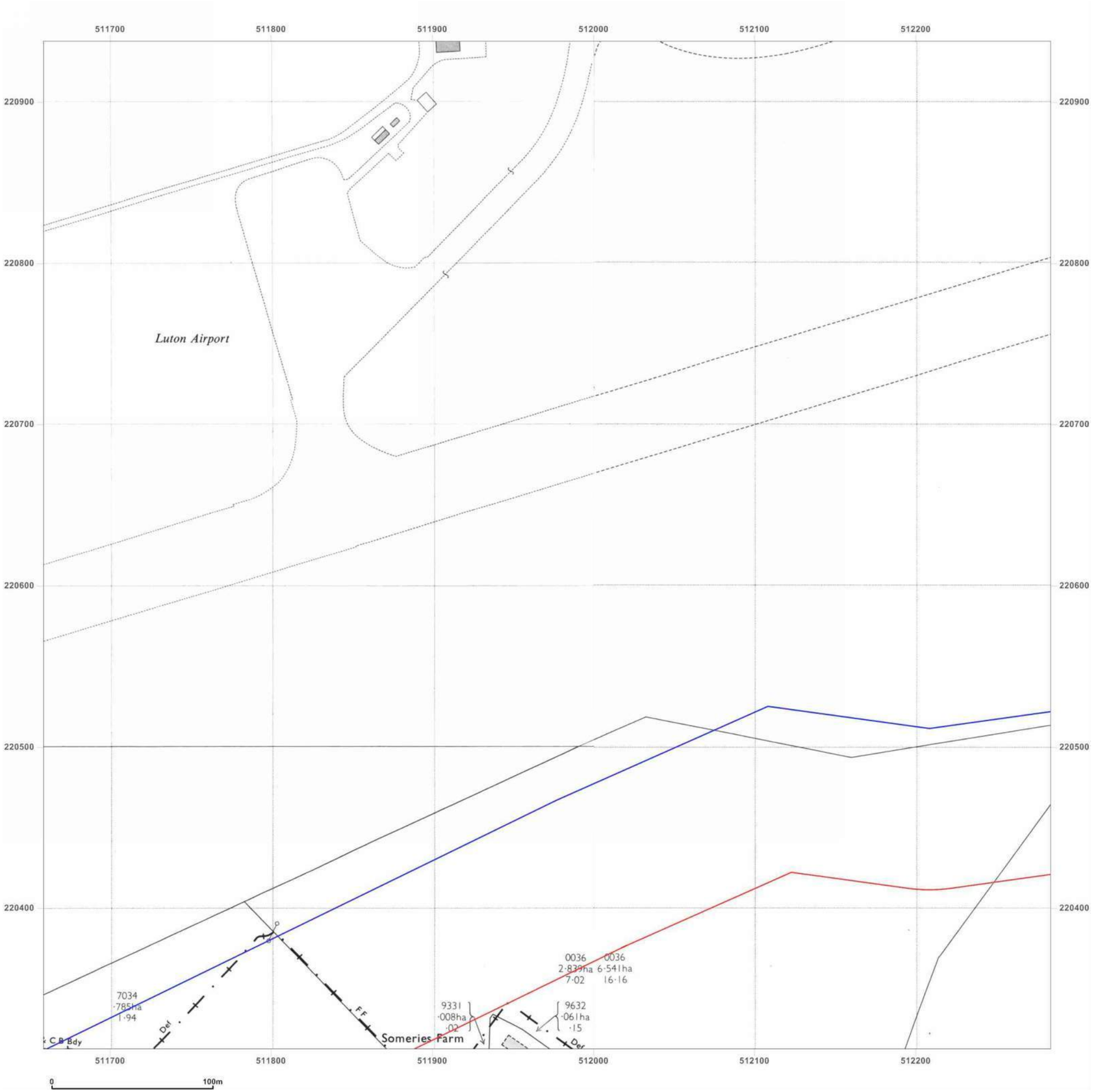

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_2
Grid Ref: 511971, 220625

Map Name: National Grid
Map date: **1971**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1962
Revised 1971
Edition N/A
Copyright 1973
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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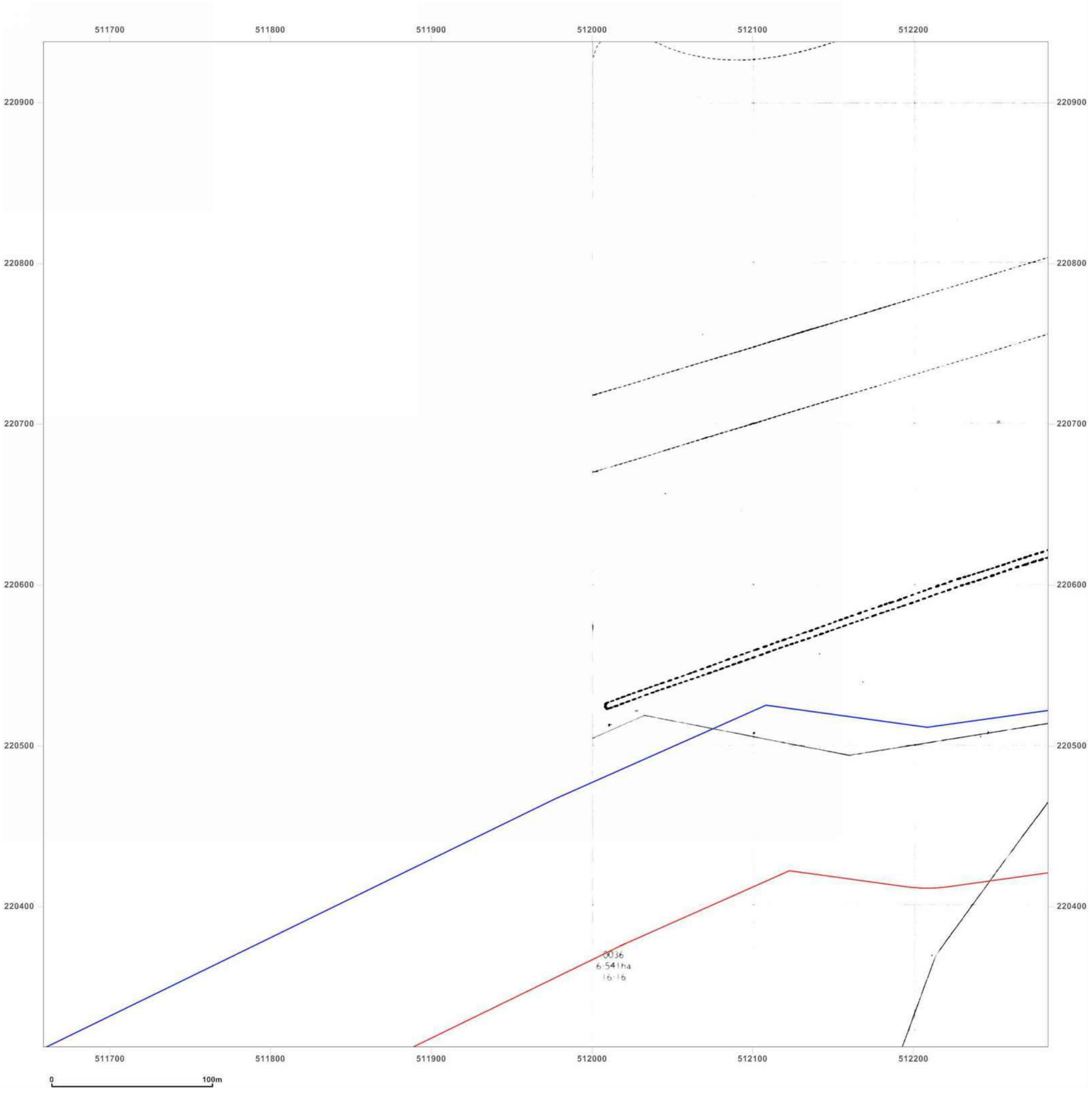

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_2
Grid Ref: 511971, 220625

Map Name: National Grid

Map date: **1973**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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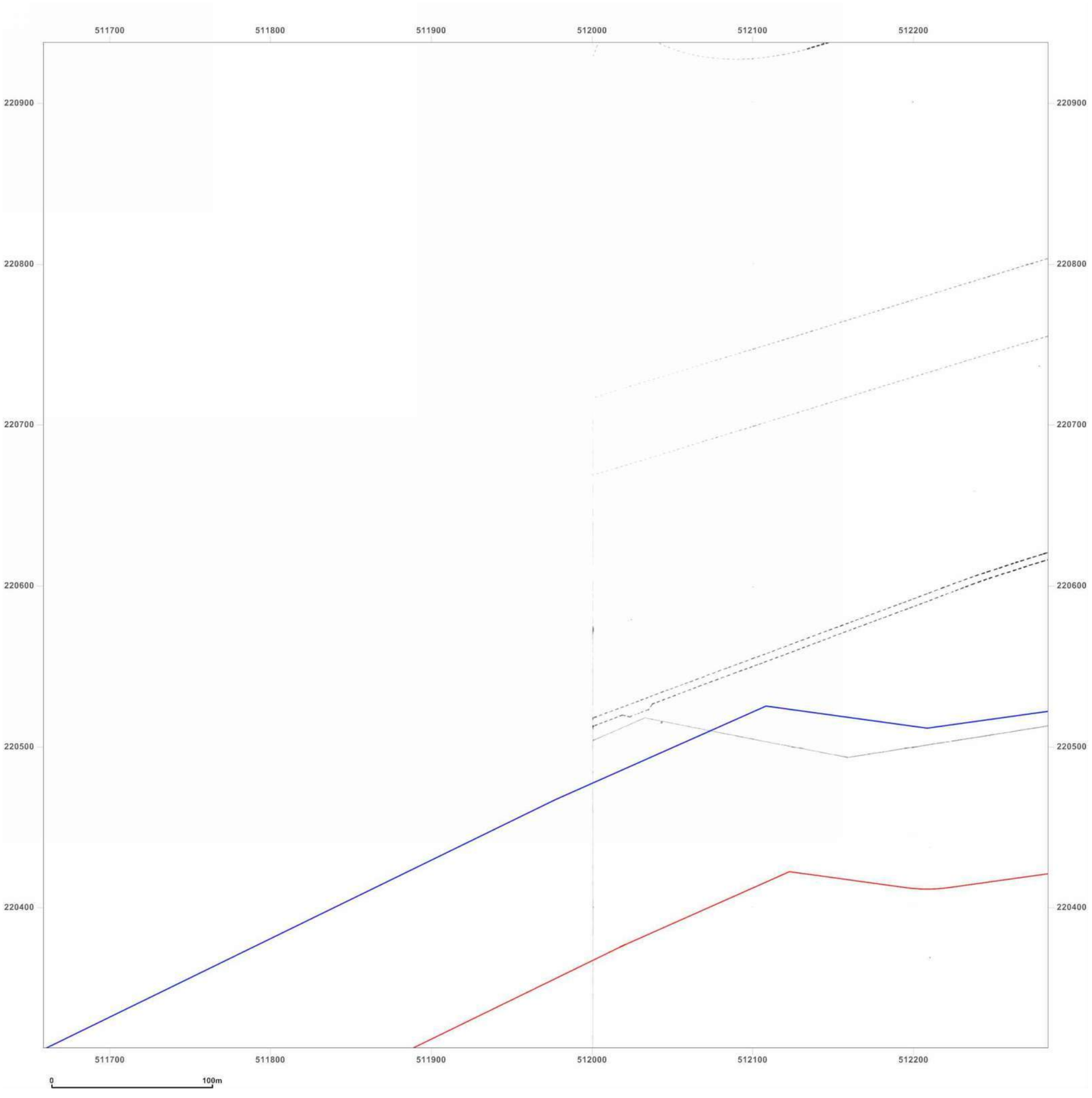

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_2
Grid Ref: 511971, 220625

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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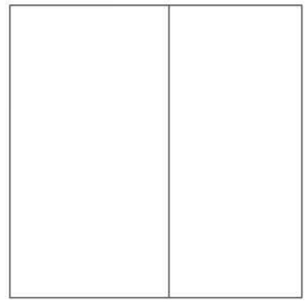

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

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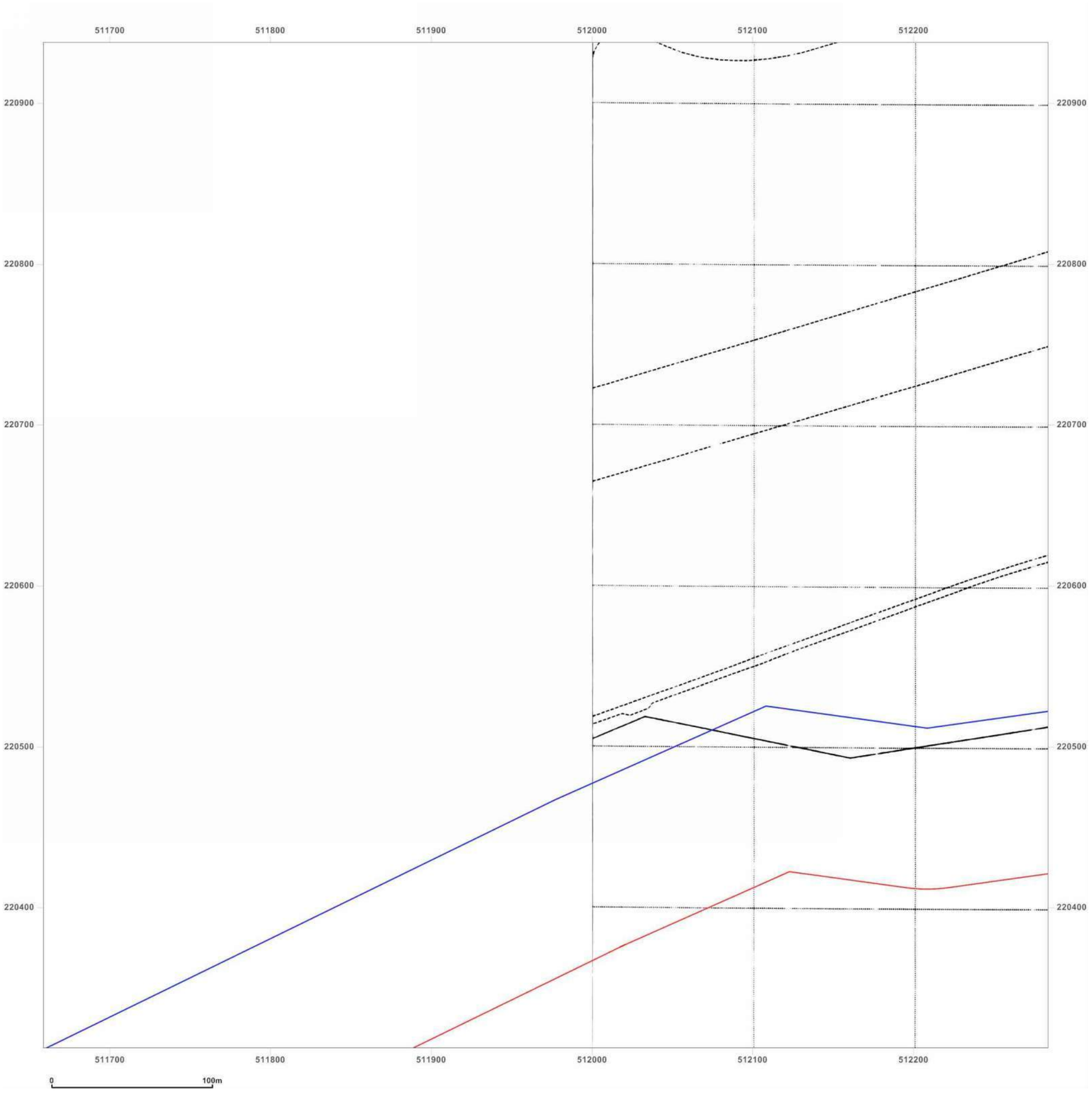

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_2
Grid Ref: 511971, 220625

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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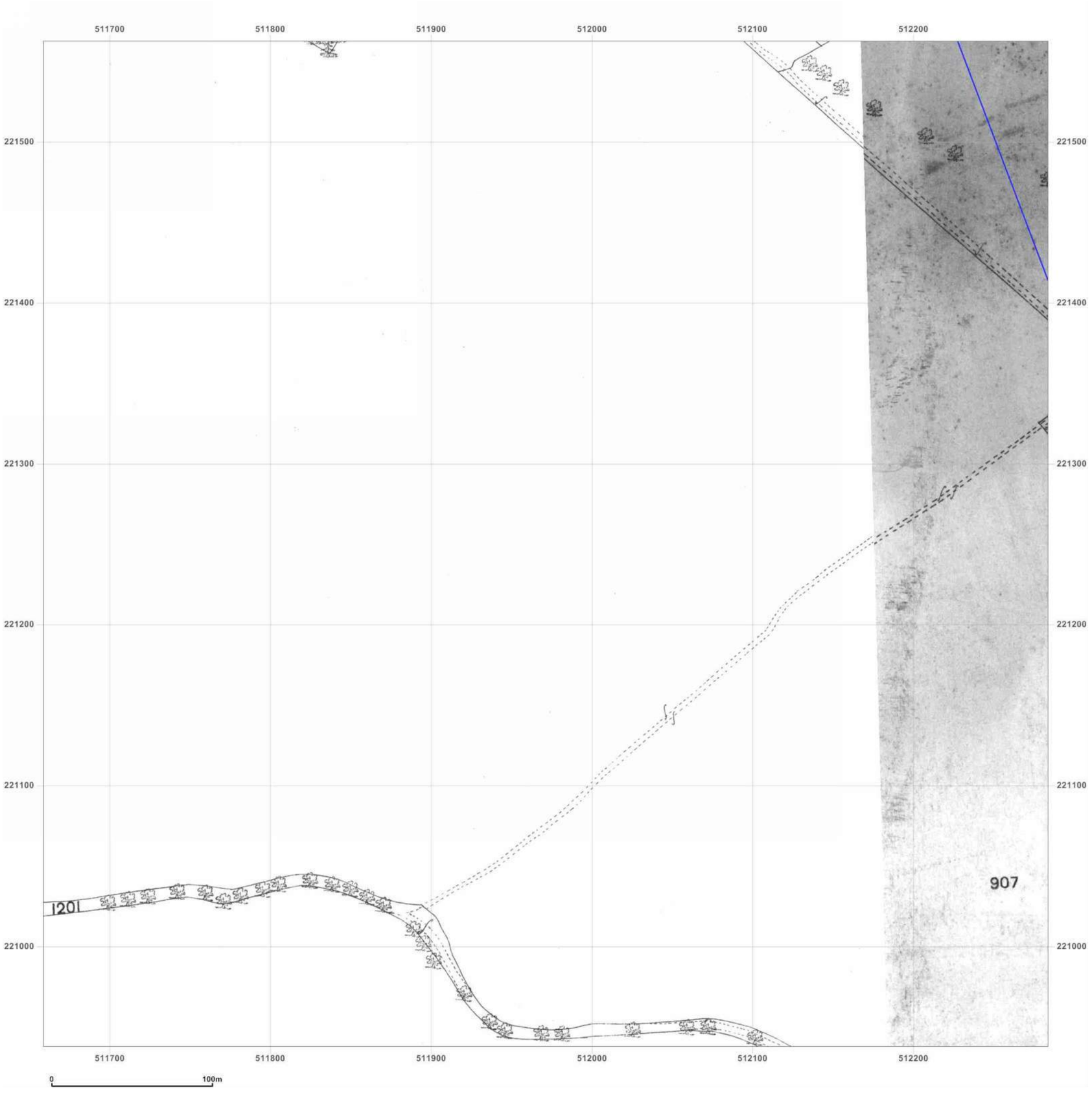

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_3
Grid Ref: 511971, 221250

Map Name: County Series

Map date: **1880-1881**

Scale: 1:2,500

Printed at: 1:2,500

N
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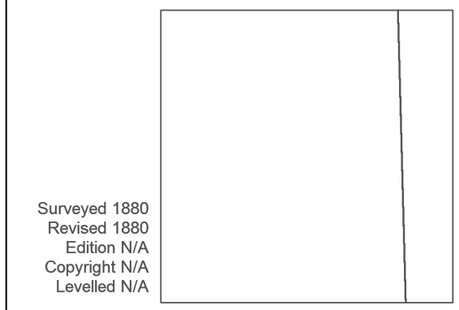

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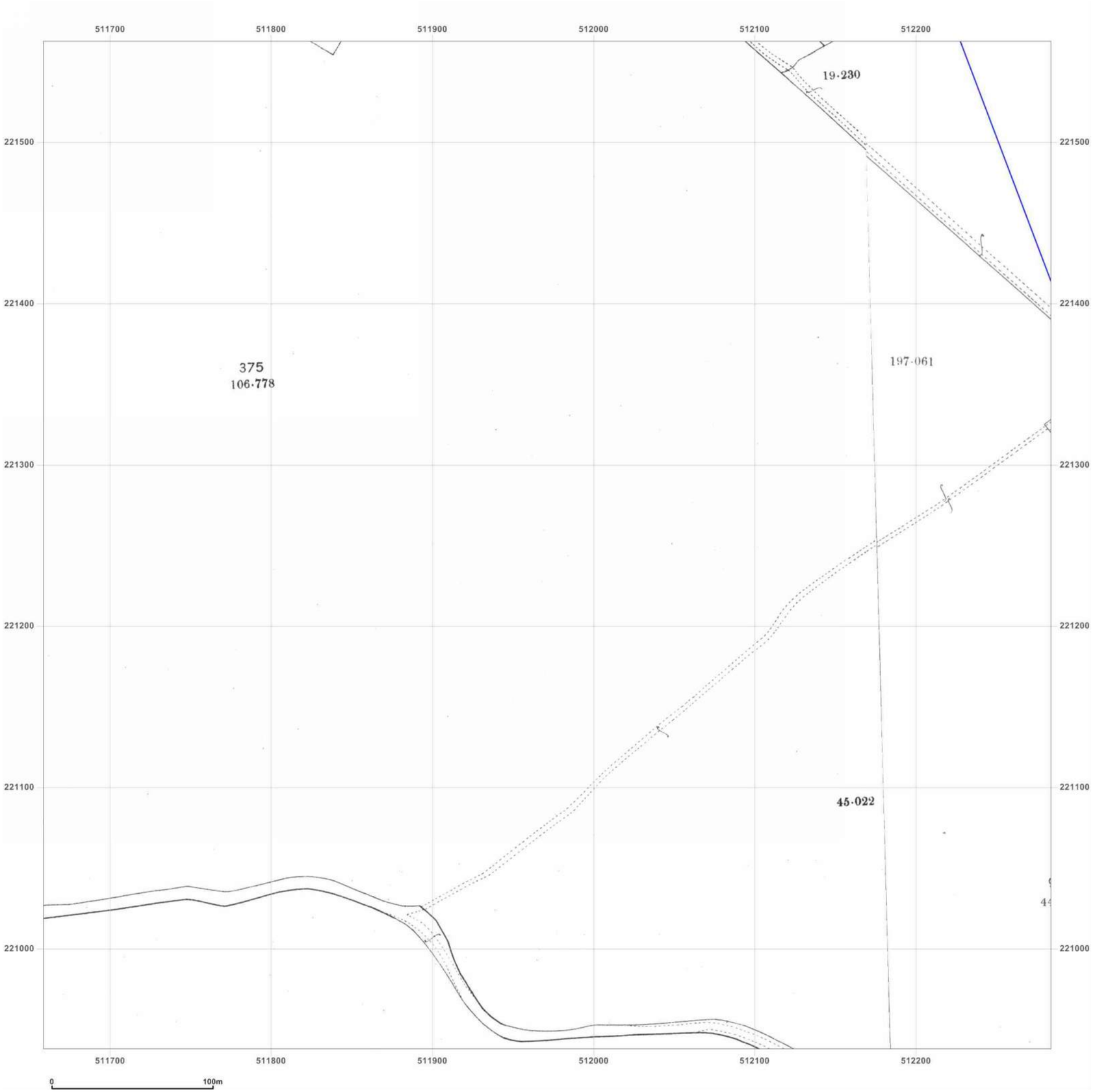

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_3
Grid Ref: 511971, 221250

Map Name: County Series

Map date: **1898-1901**

Scale: 1:2,500

Printed at: 1:2,500

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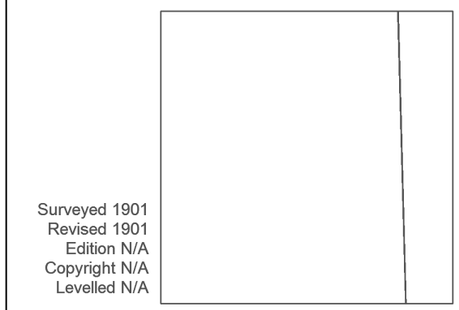

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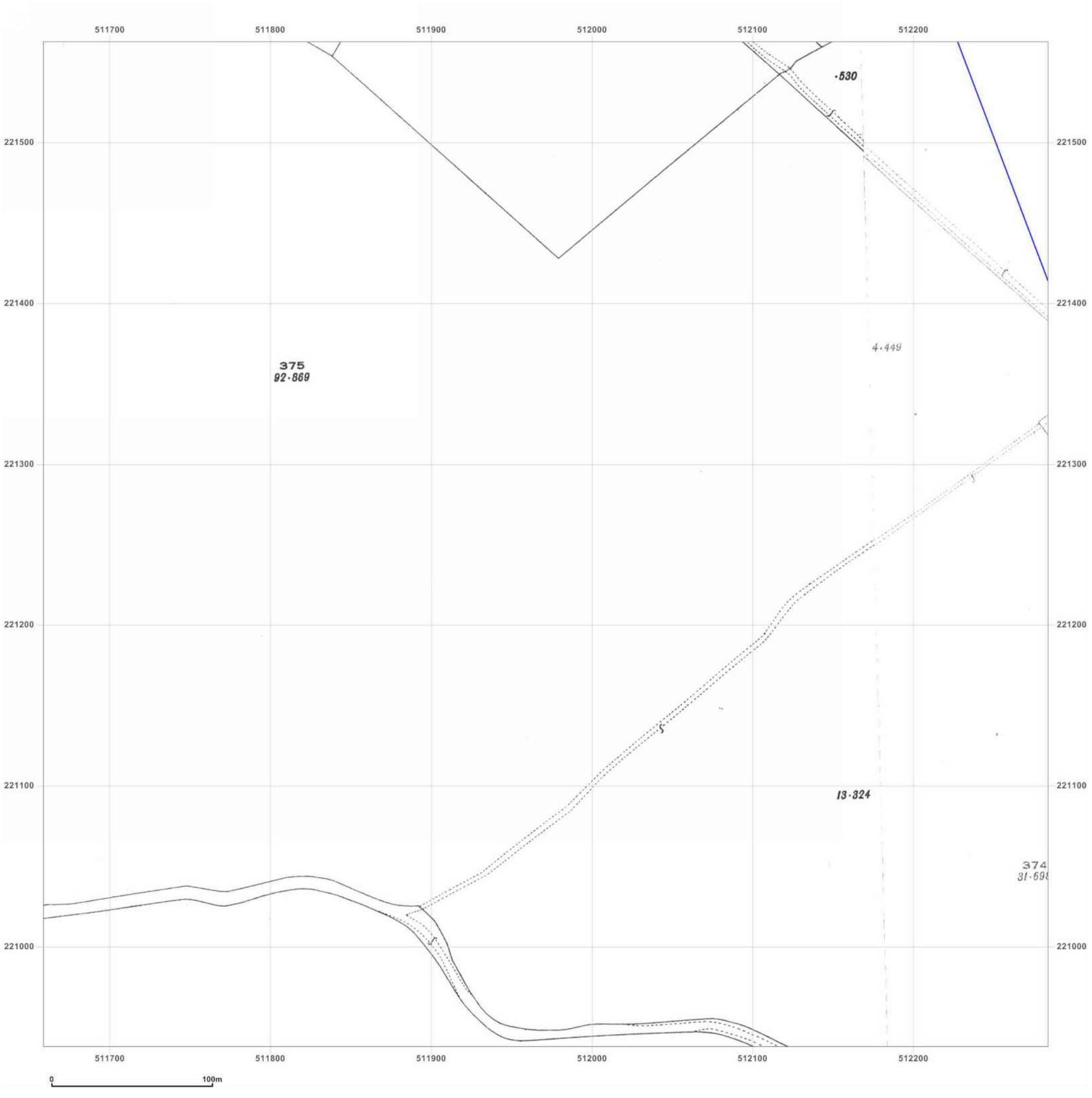

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_3
Grid Ref: 511971, 221250

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

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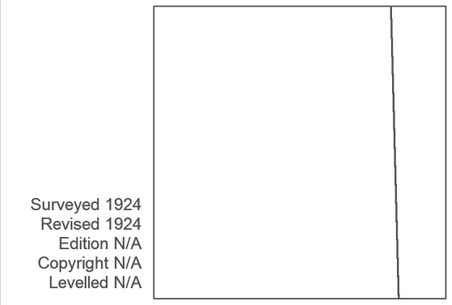

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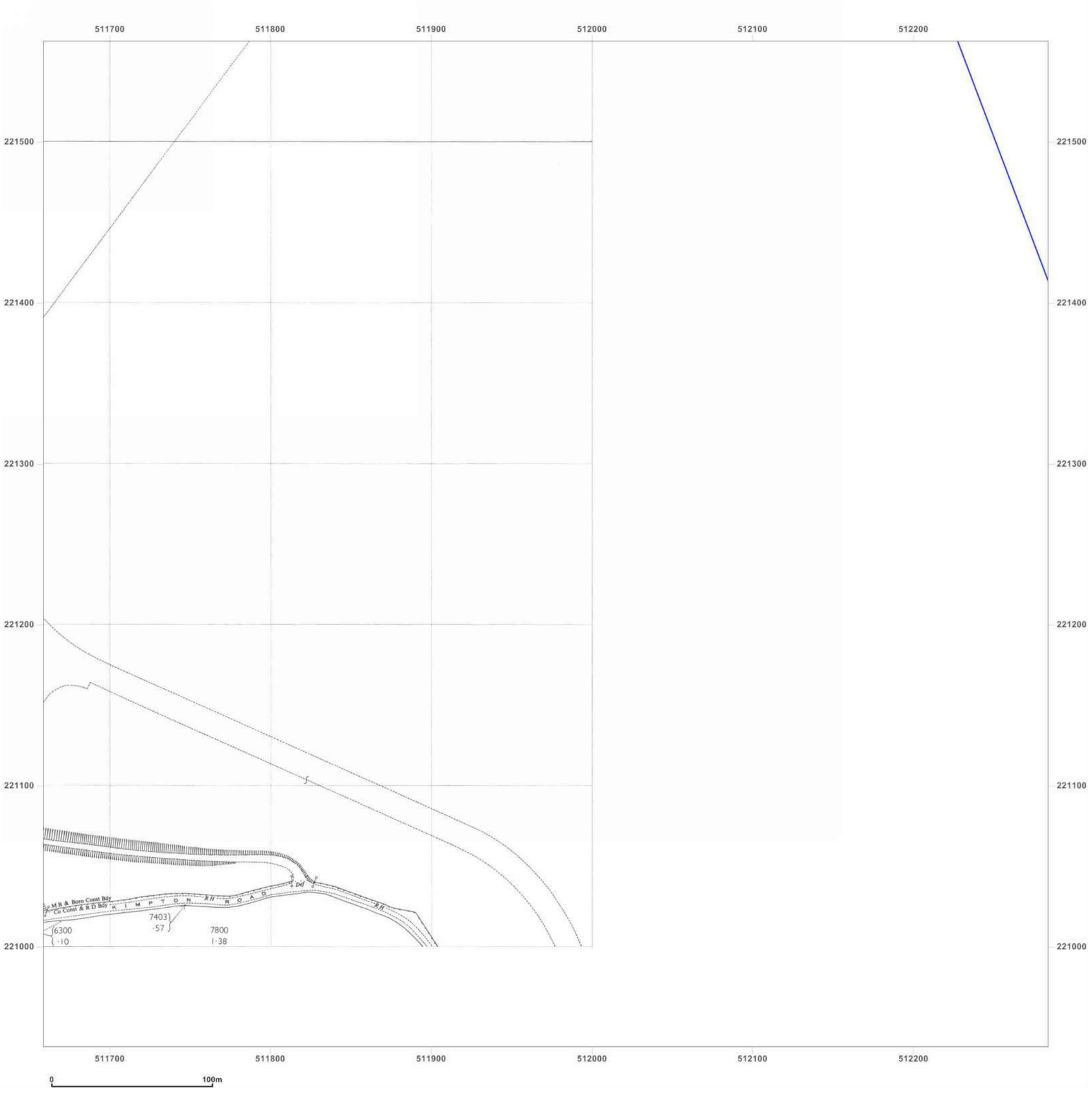

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_3
Grid Ref: 511971, 221250

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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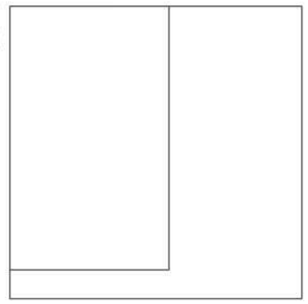
Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958



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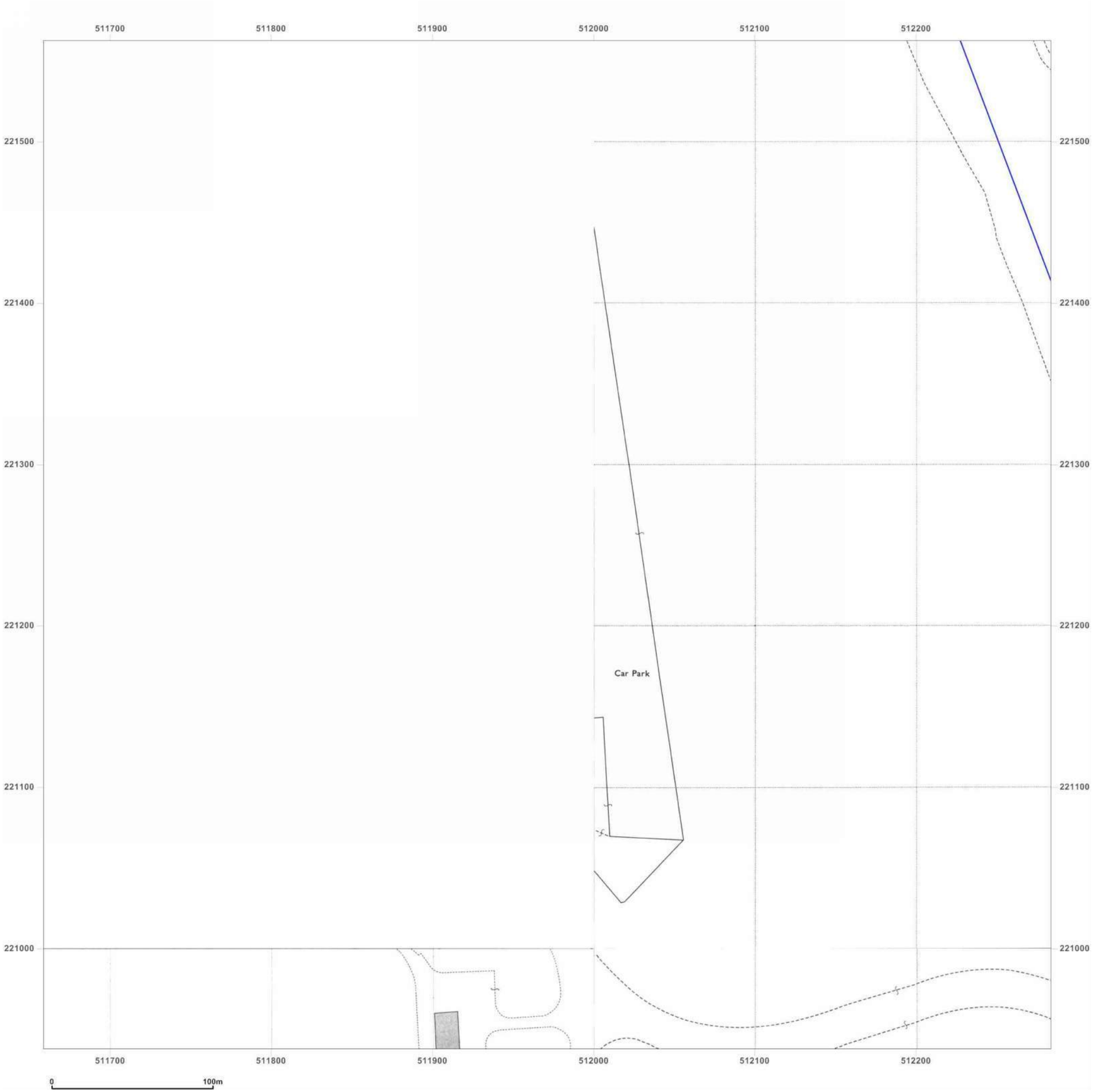

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_3
Grid Ref: 511971, 221250

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

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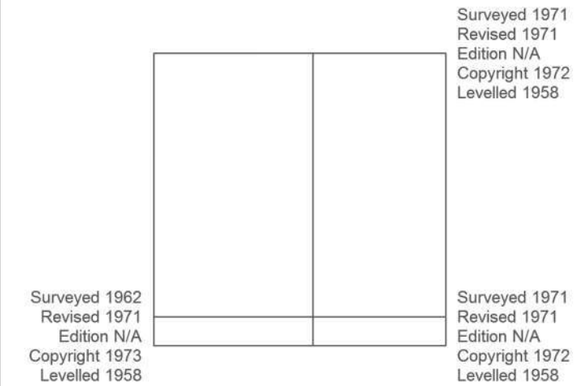

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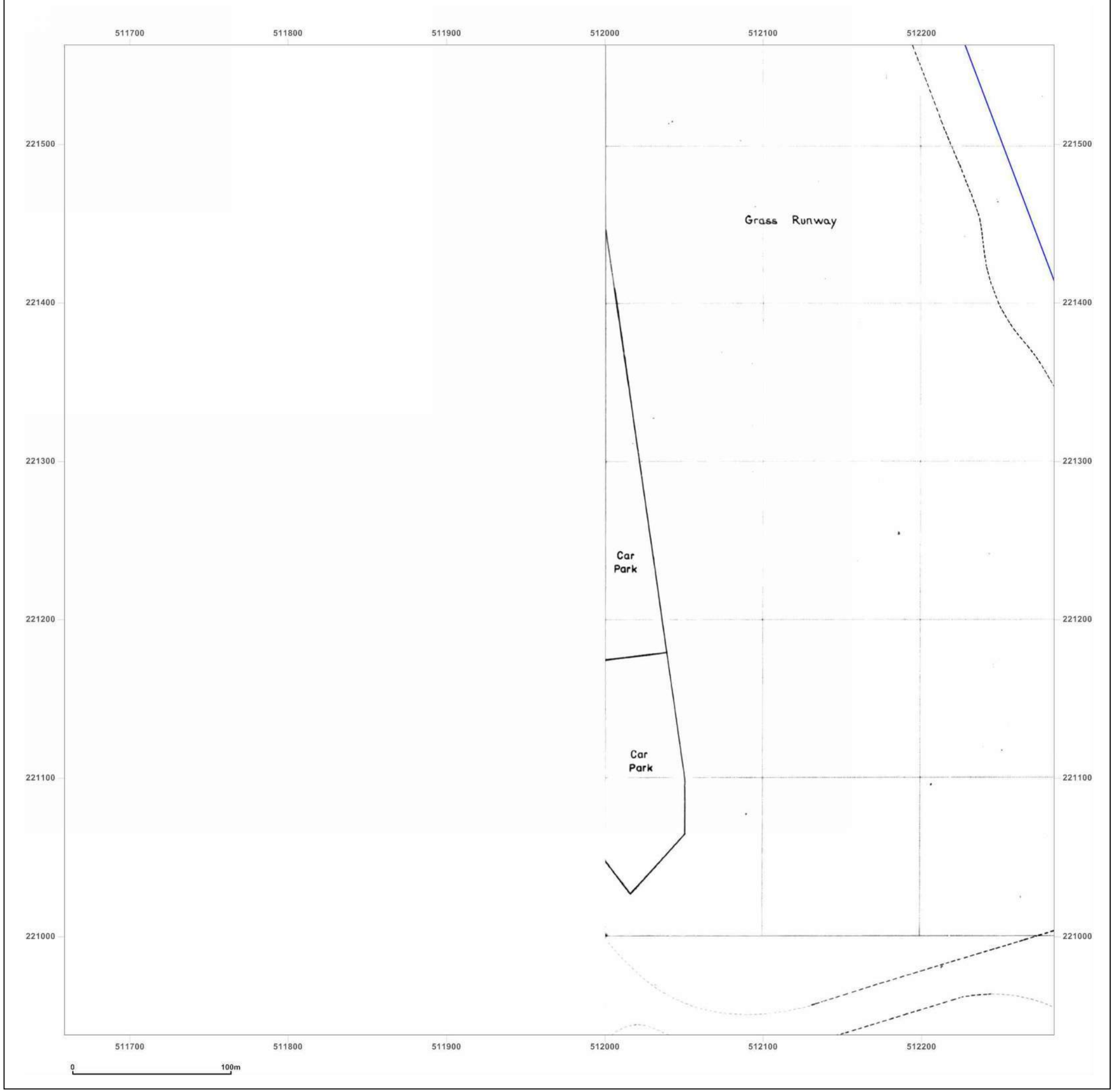


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_3
Grid Ref: 511971, 221250

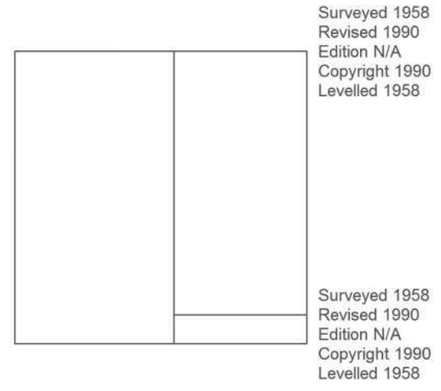
Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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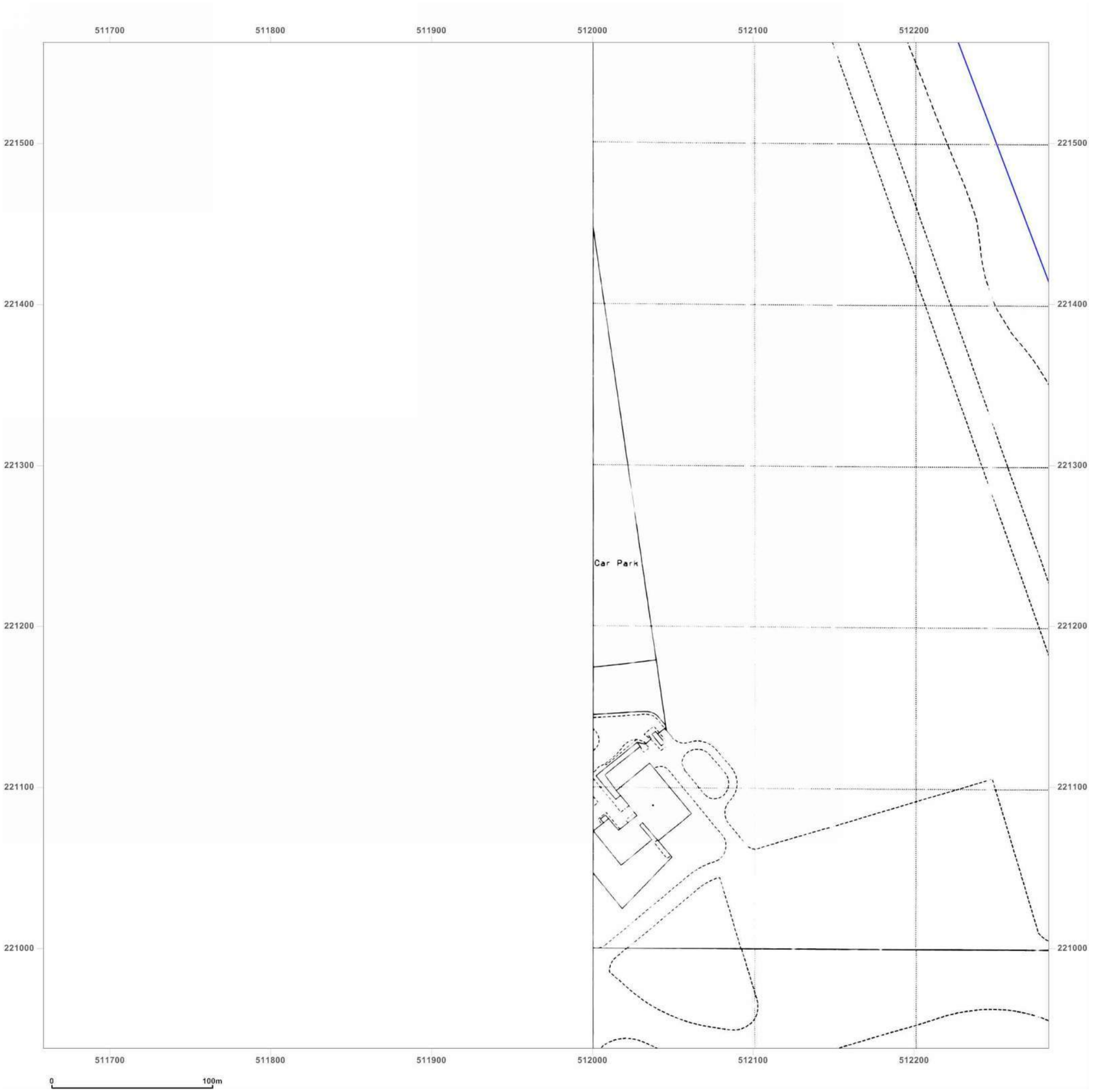

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_3
Grid Ref: 511971, 221250

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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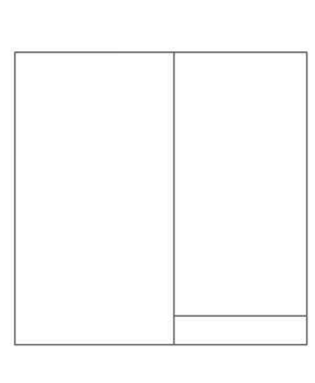
S



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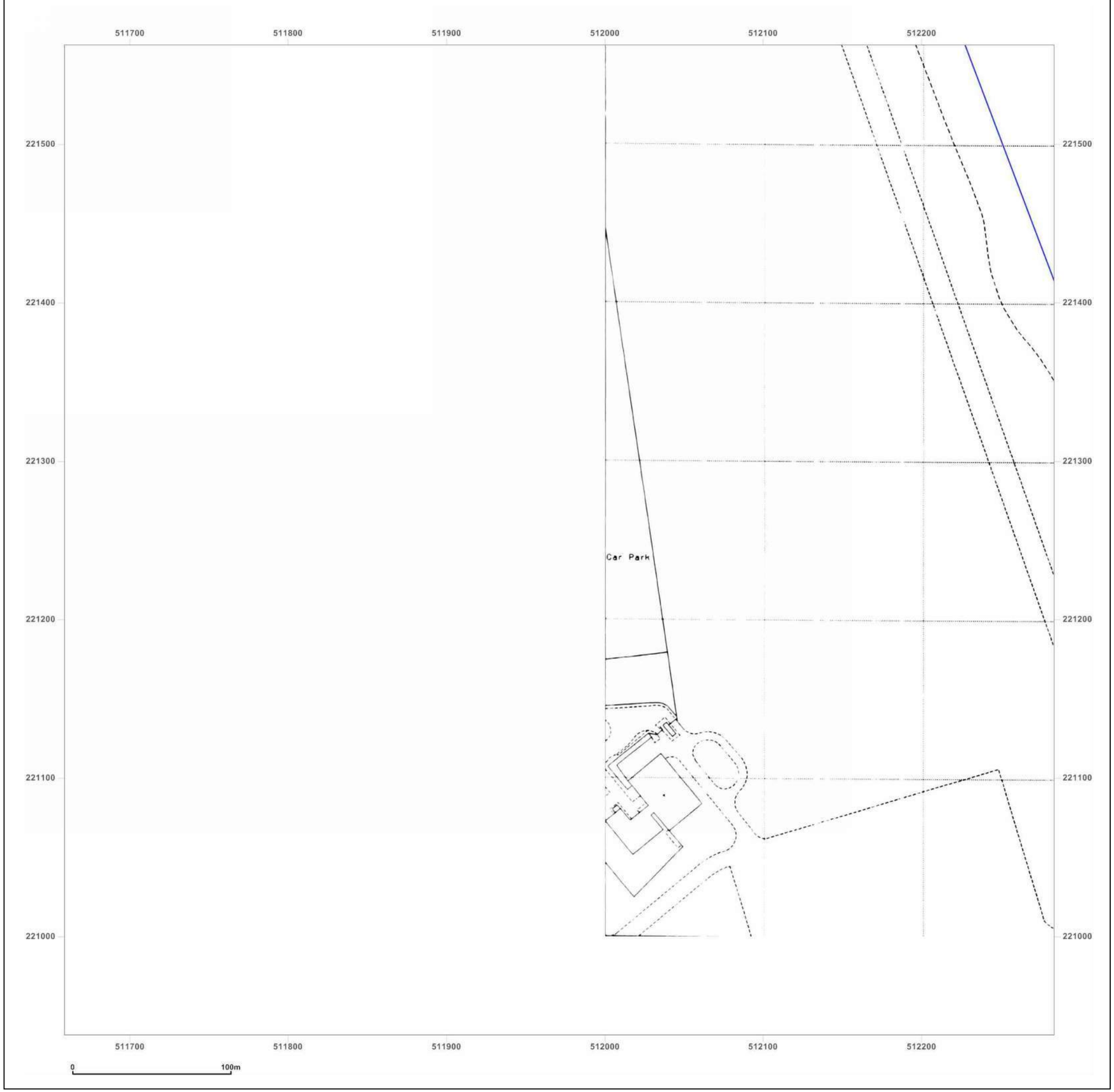


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_3
Grid Ref: 511971, 221250

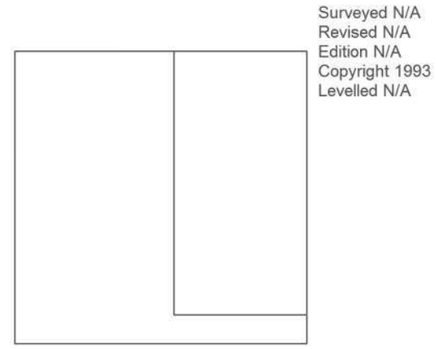
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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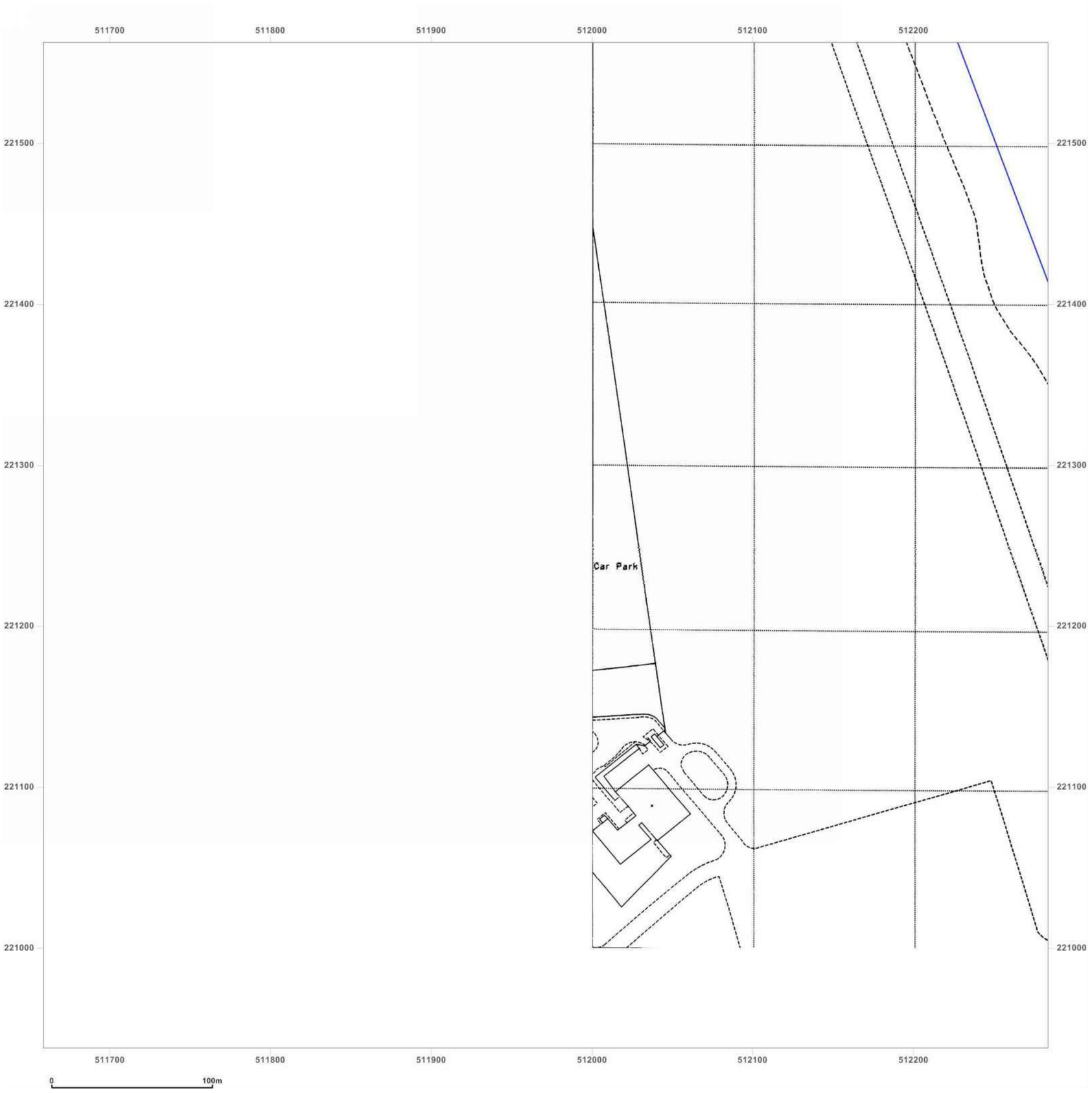


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_3
Grid Ref: 511971, 221250

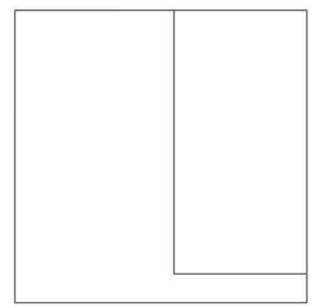
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Production date: 20 November 2020

Map legend available at:
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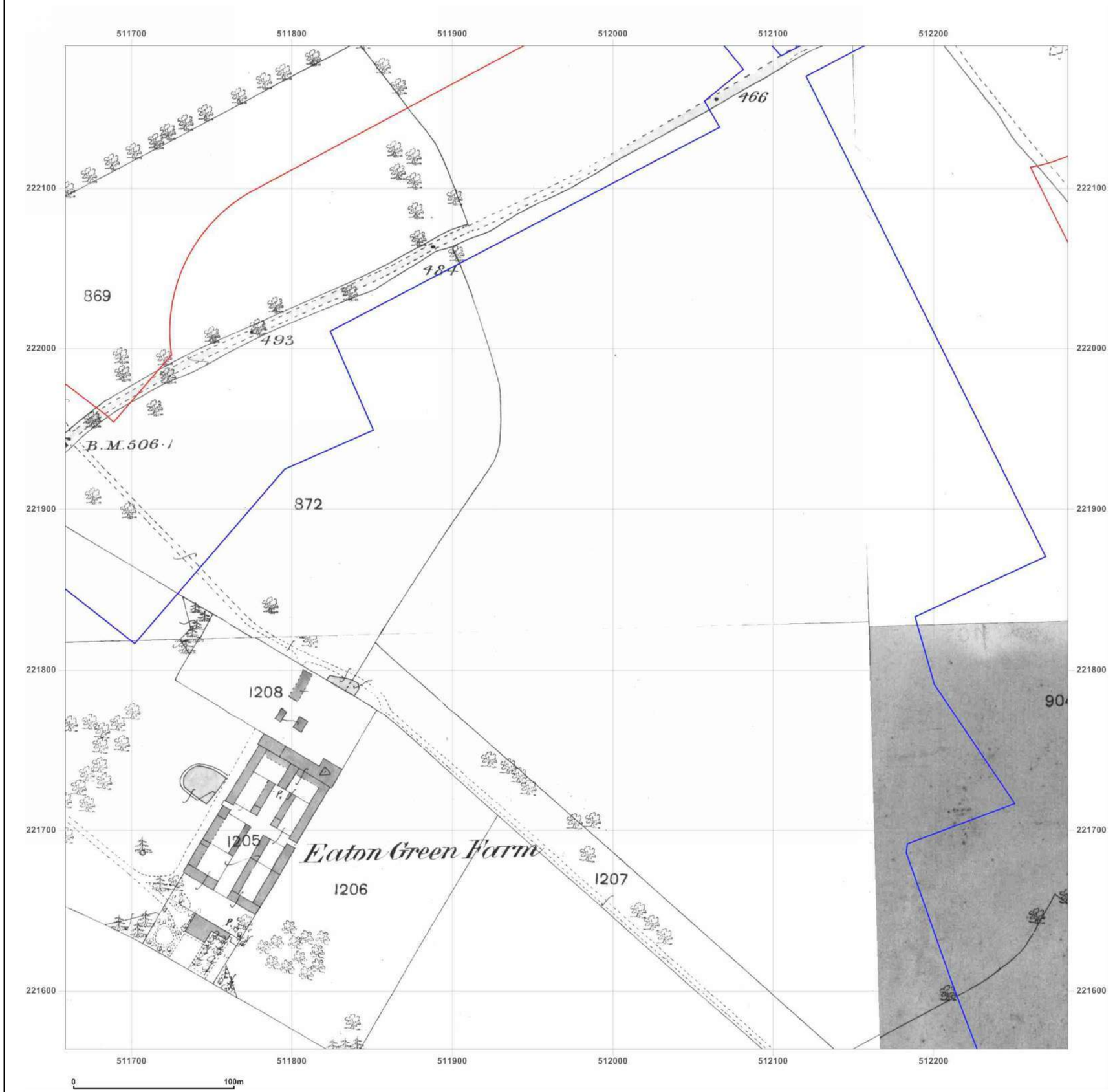

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_4
Grid Ref: 511971, 221876

Map Name: County Series

Map date: **1880-1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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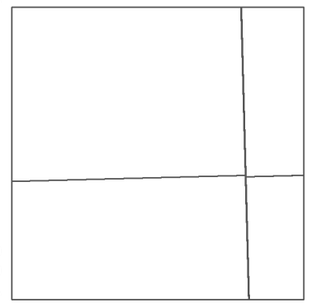
Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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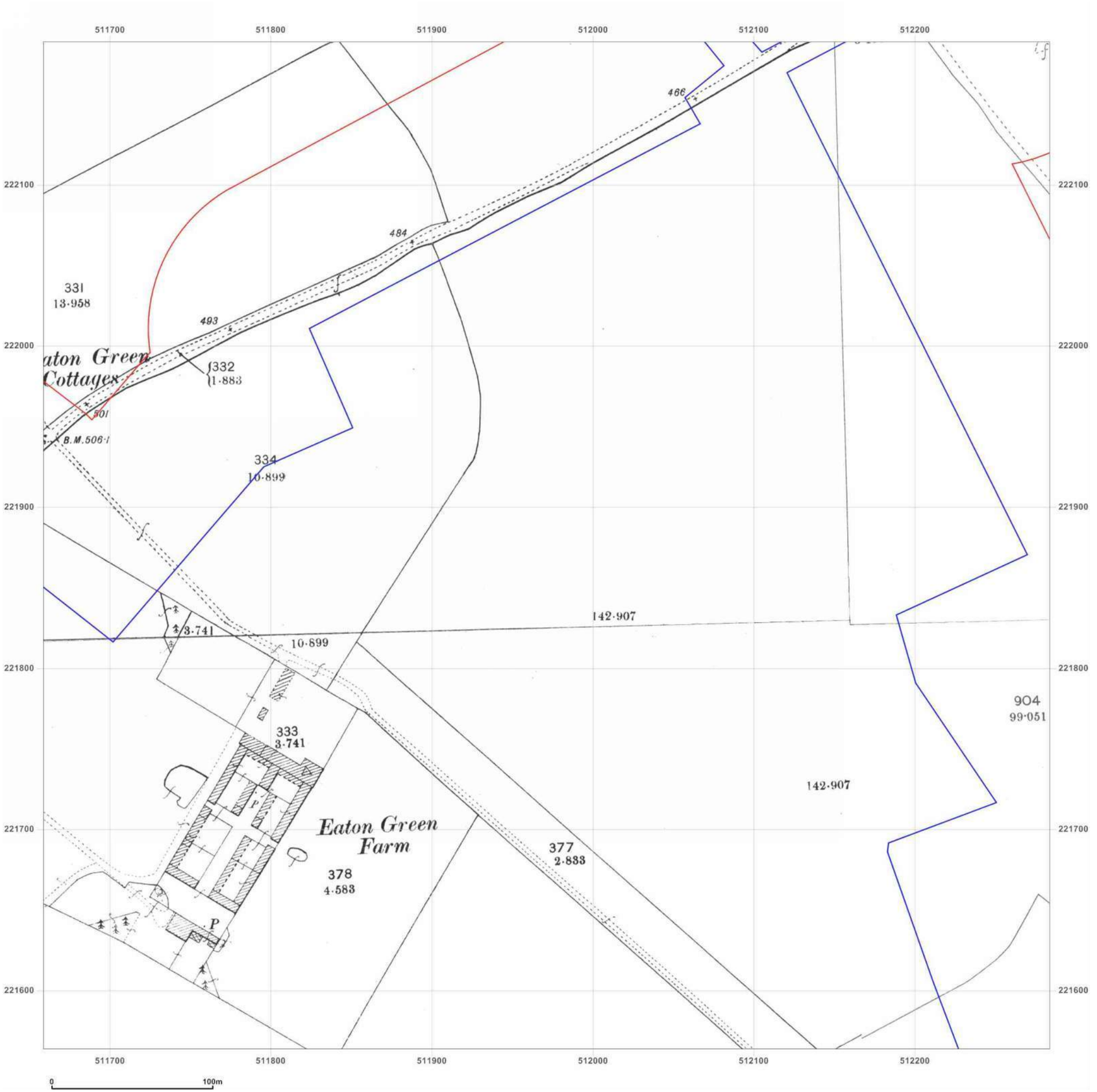

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_4
Grid Ref: 511971, 221876

Map Name: County Series

Map date: **1898-1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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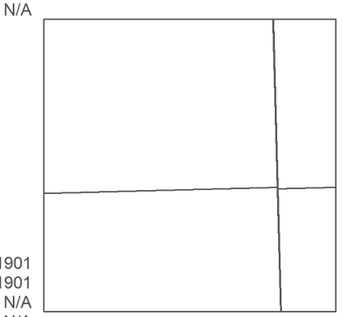
Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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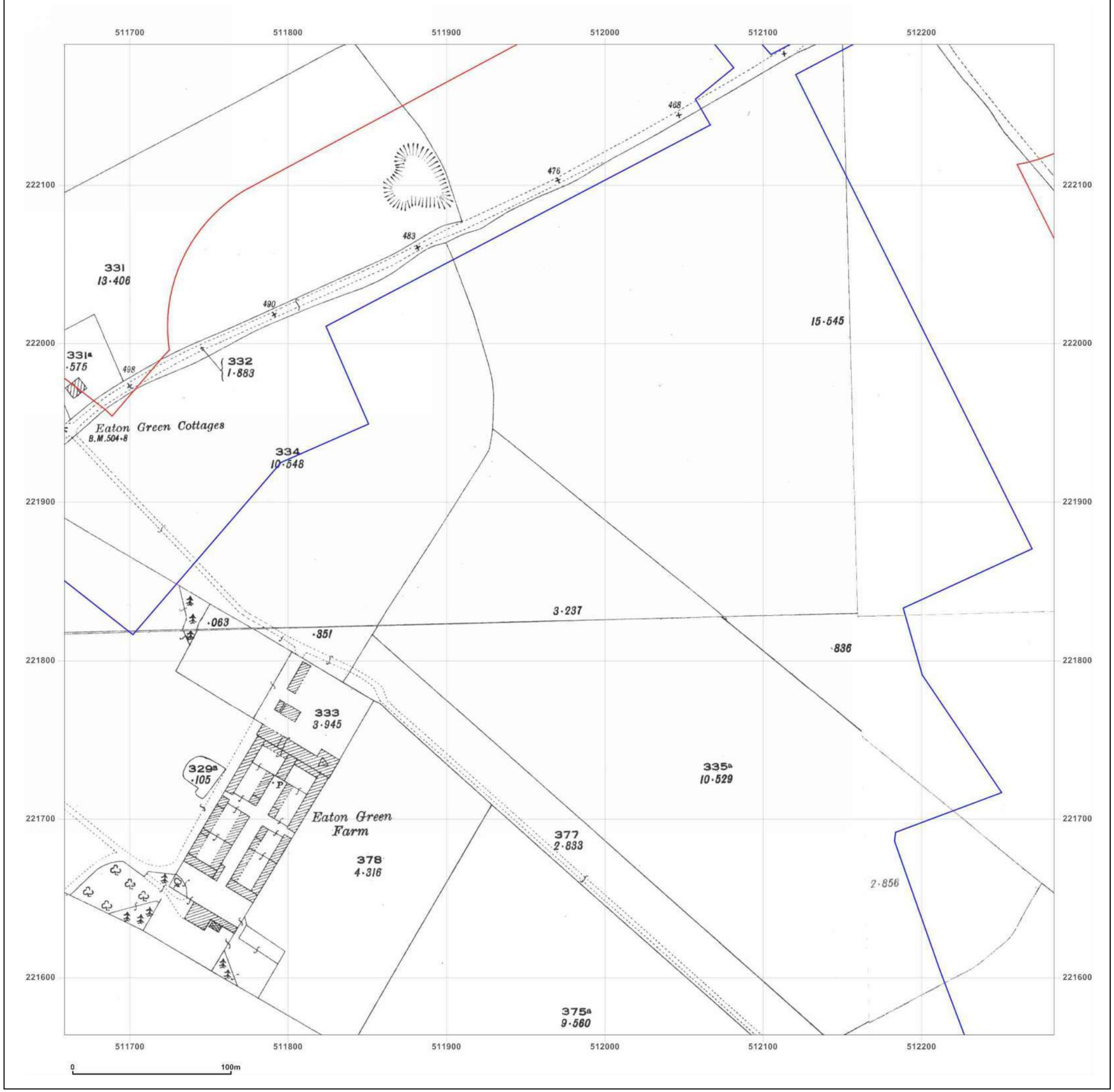


Groundsure INSIGHTS

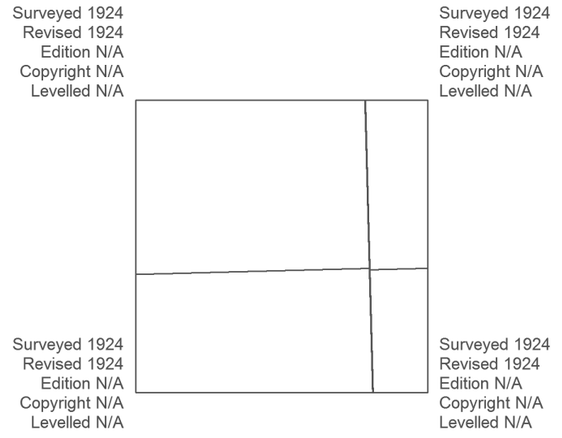
Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_4
Grid Ref: 511971, 221876

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



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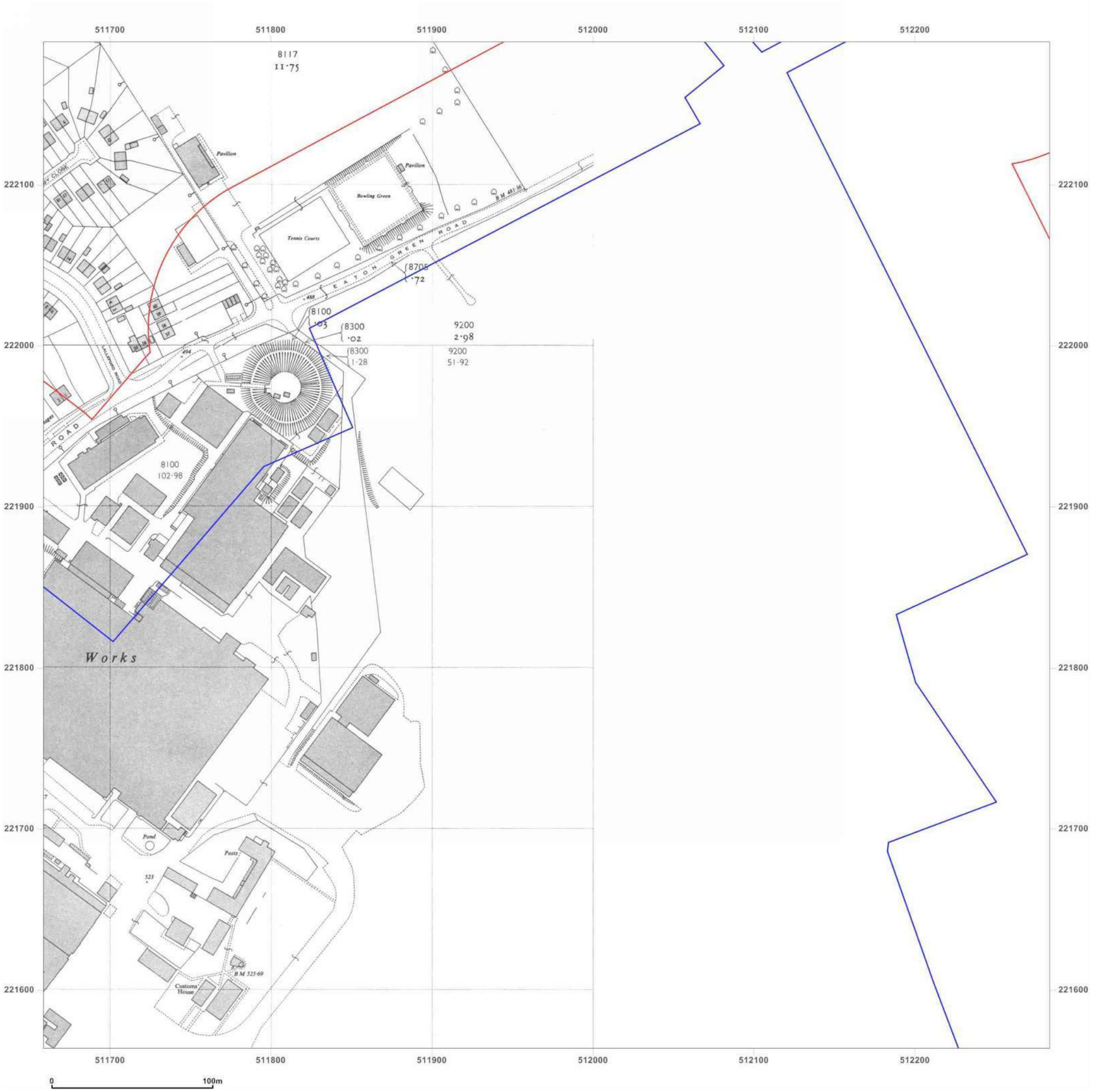


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_4
Grid Ref: 511971, 221876

Map Name: National Grid

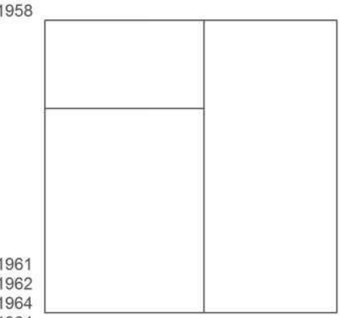
Map date: **1961-1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1958



Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958

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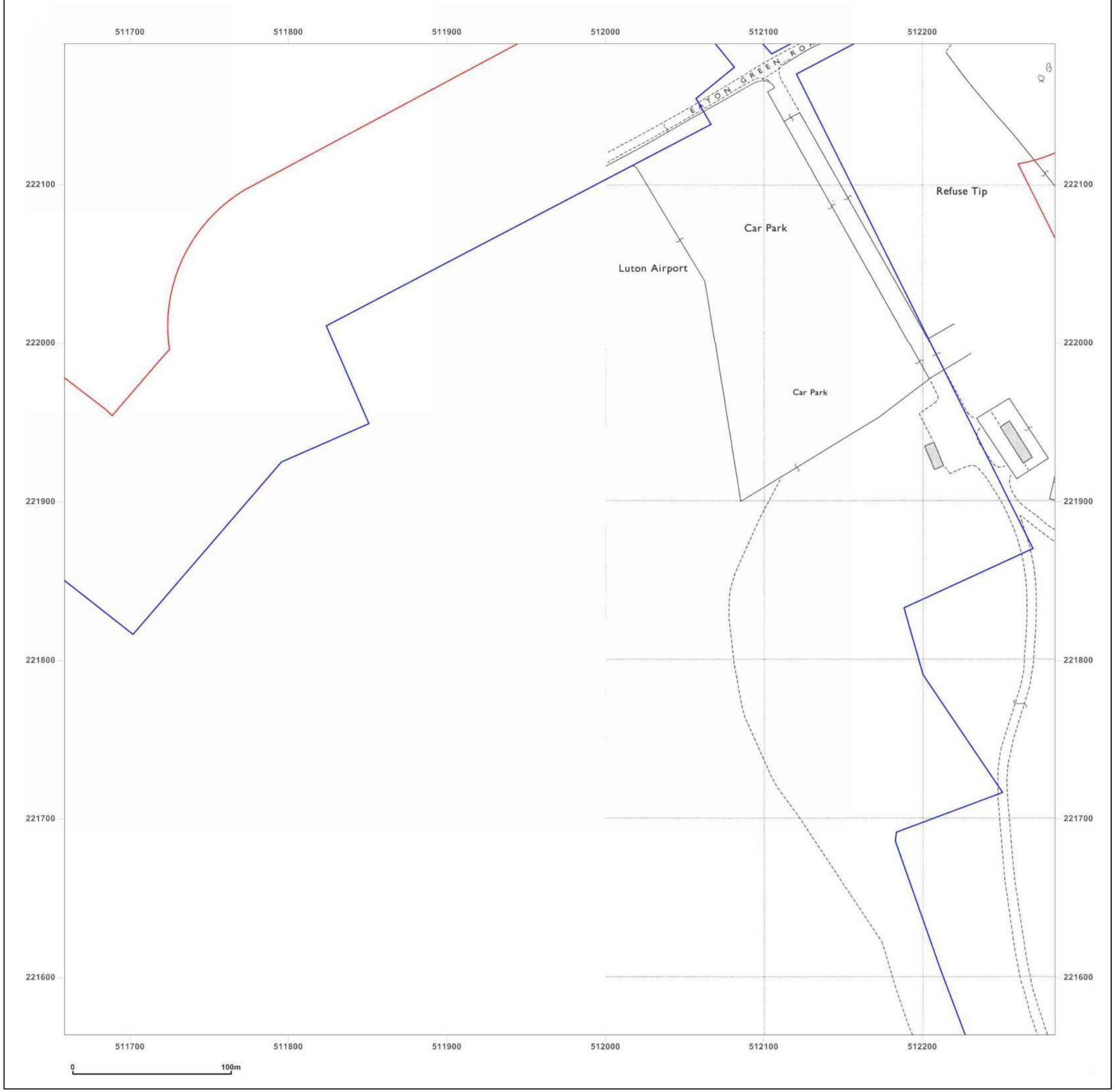


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_4
Grid Ref: 511971, 221876

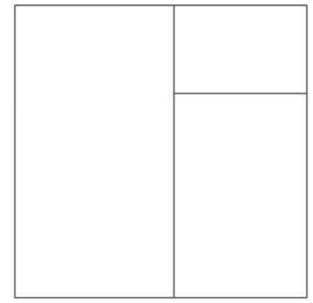
Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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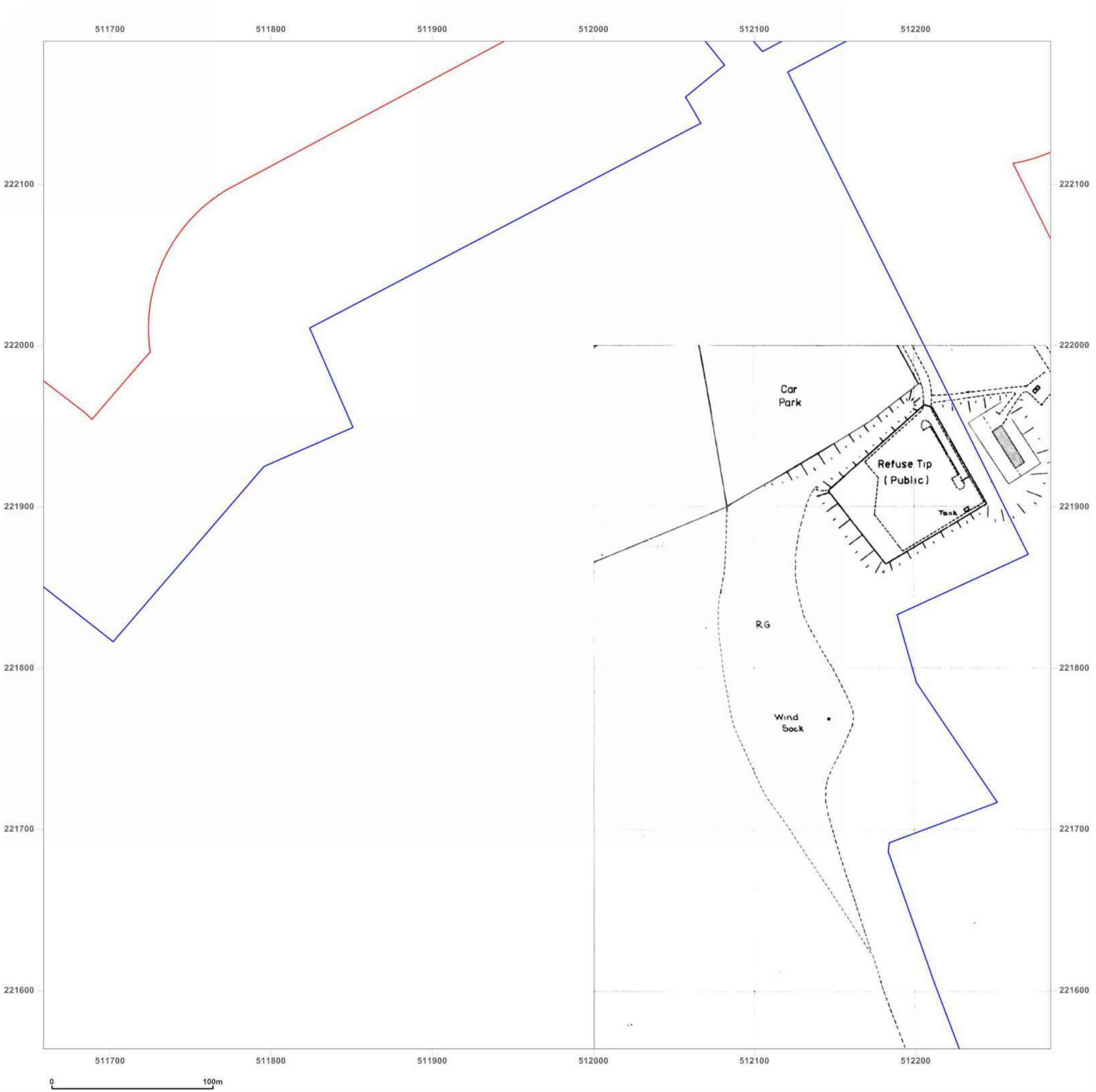


Groundsure INSIGHTS

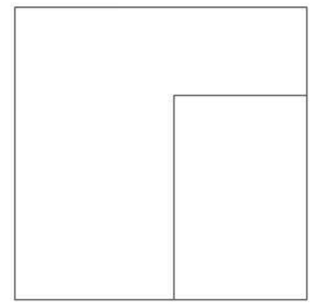
Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_4
Grid Ref: 511971, 221876

Map Name: National Grid
Map date: **1990**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_4
Grid Ref: 511971, 221876

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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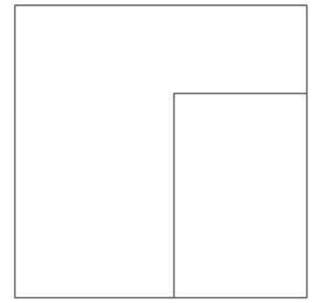

Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_4
Grid Ref: 511971, 221876

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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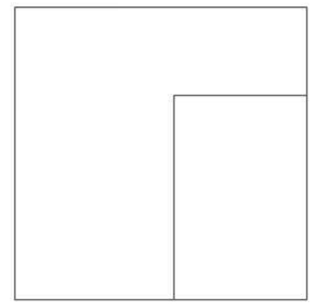

Surveyed N/A
Revised N/A
Edition N/A
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Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_4
Grid Ref: 511971, 221876

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
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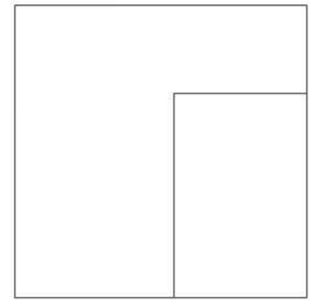

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

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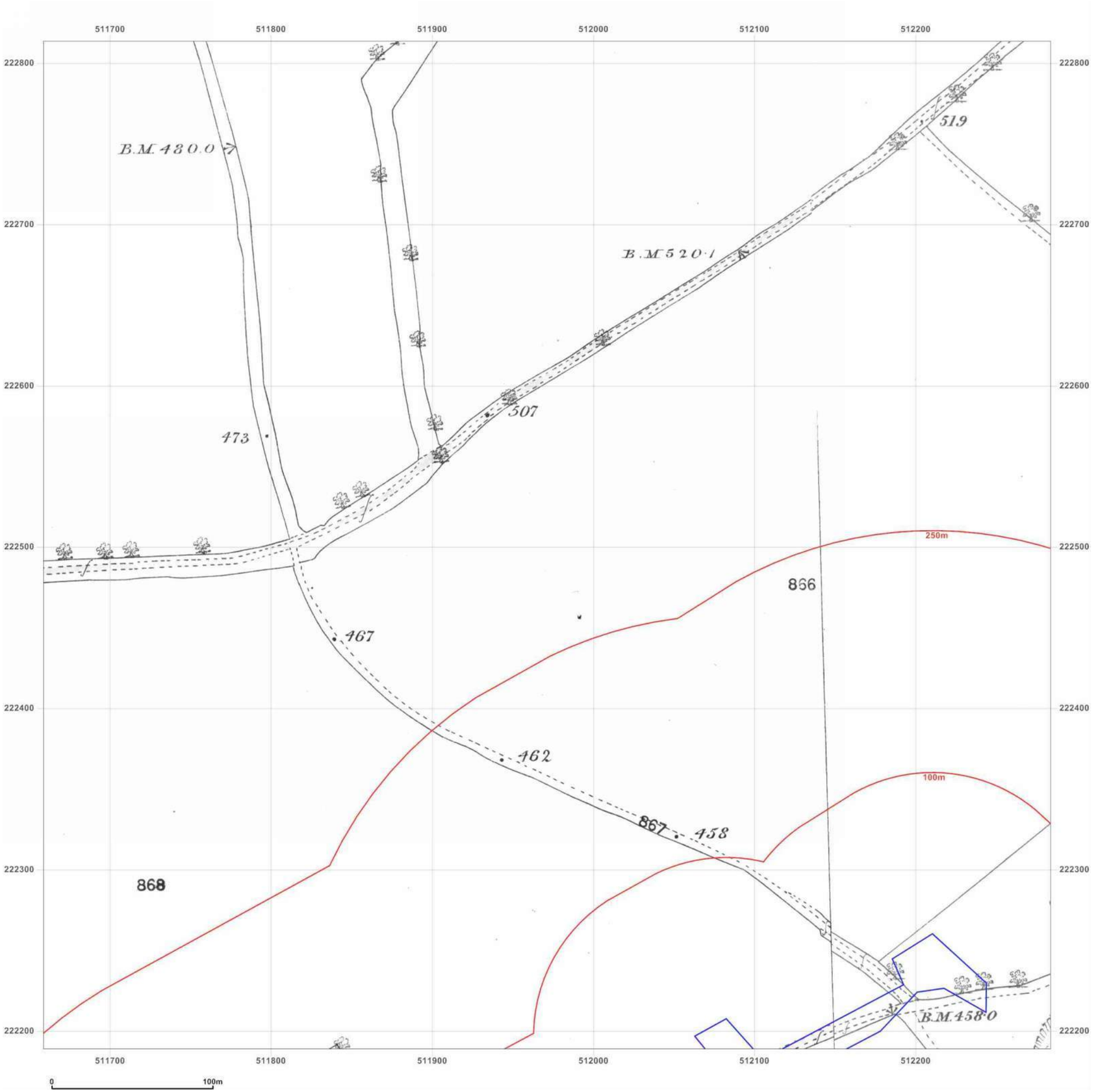

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_5
Grid Ref: 511971, 222501

Map Name: County Series

Map date: **1880-1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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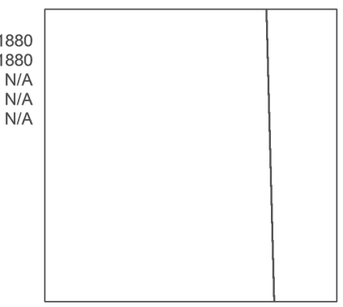
Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



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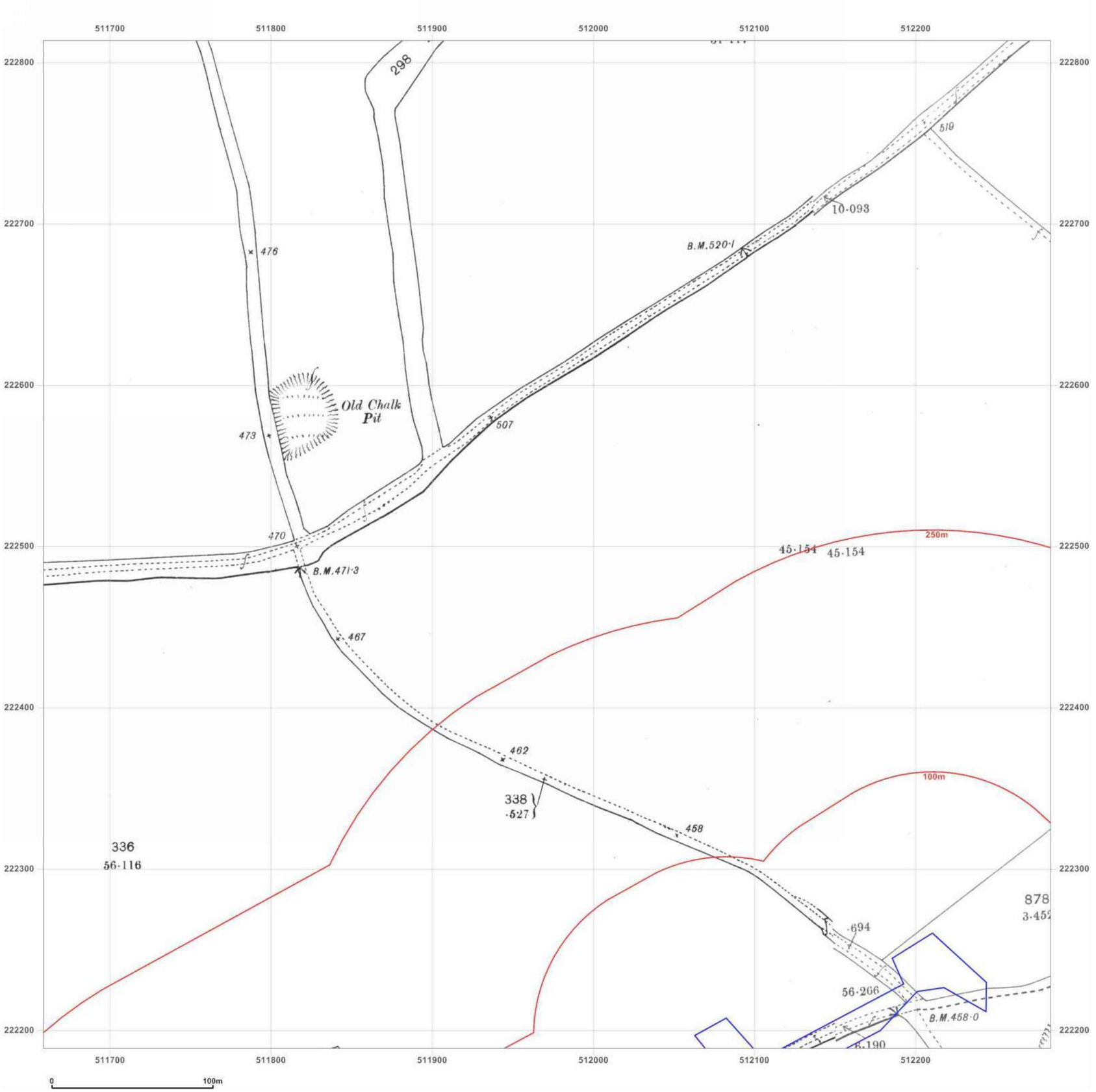

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_5
Grid Ref: 511971, 222501

Map Name: County Series

Map date: **1898-1901**

Scale: 1:2,500

Printed at: 1:2,500

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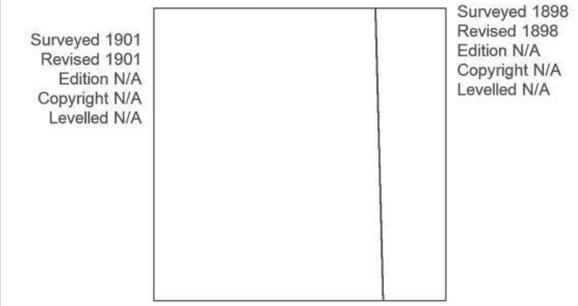

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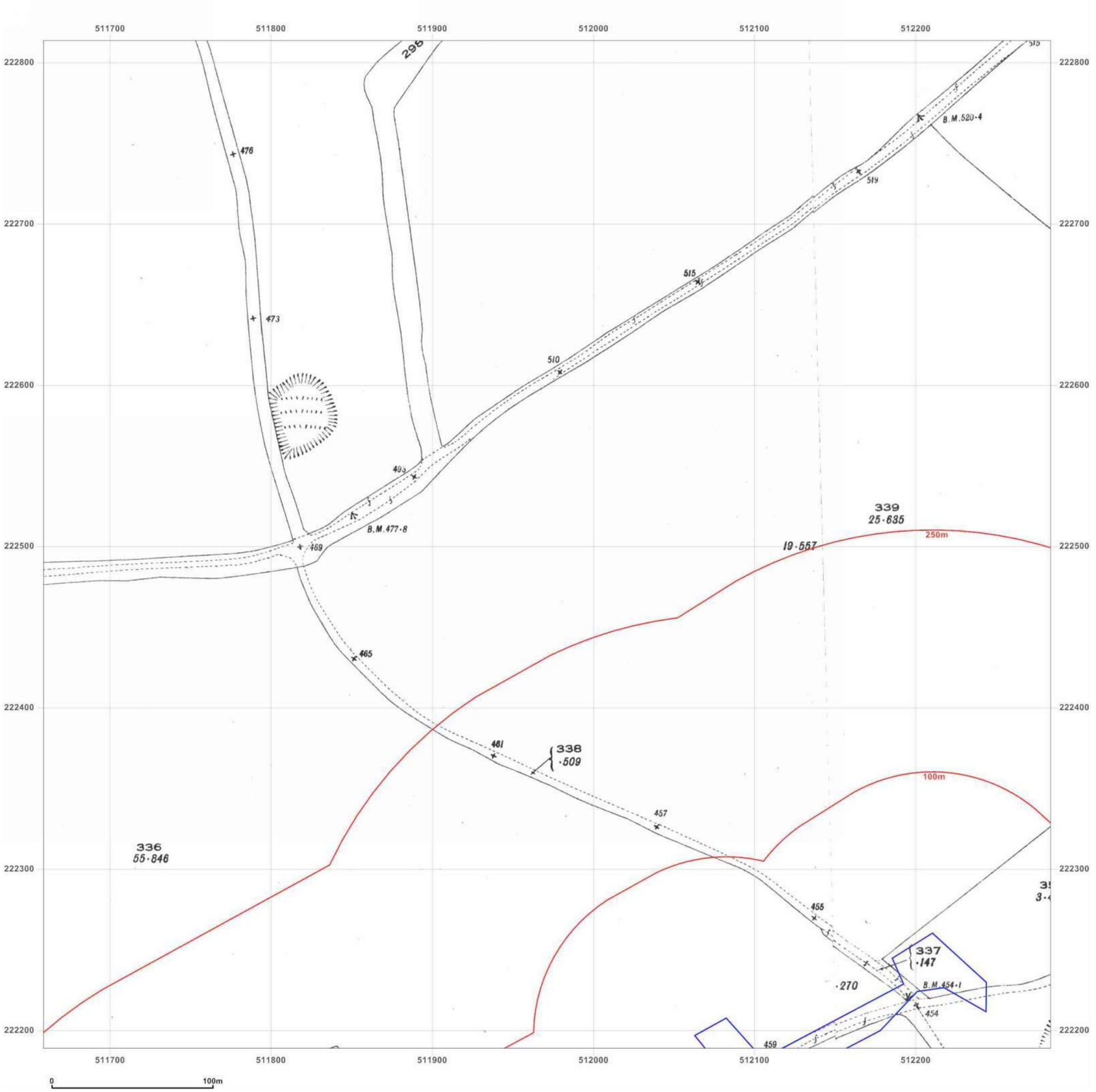

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_5
Grid Ref: 511971, 222501

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

N
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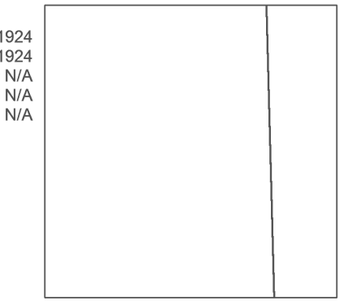
Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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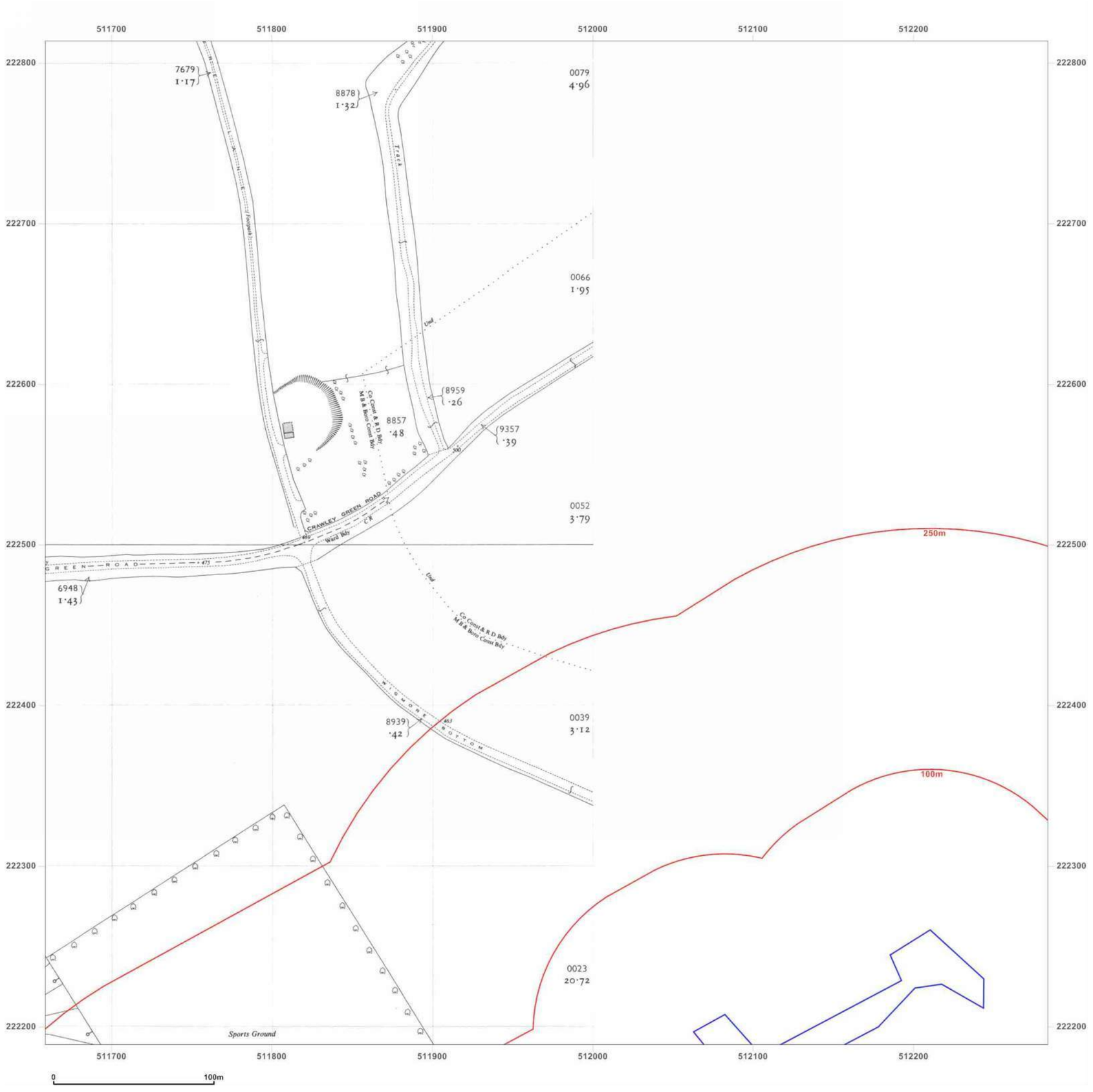

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_5
Grid Ref: 511971, 222501

Map Name: National Grid

Map date: **1961**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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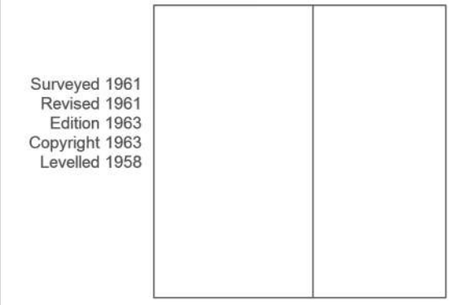

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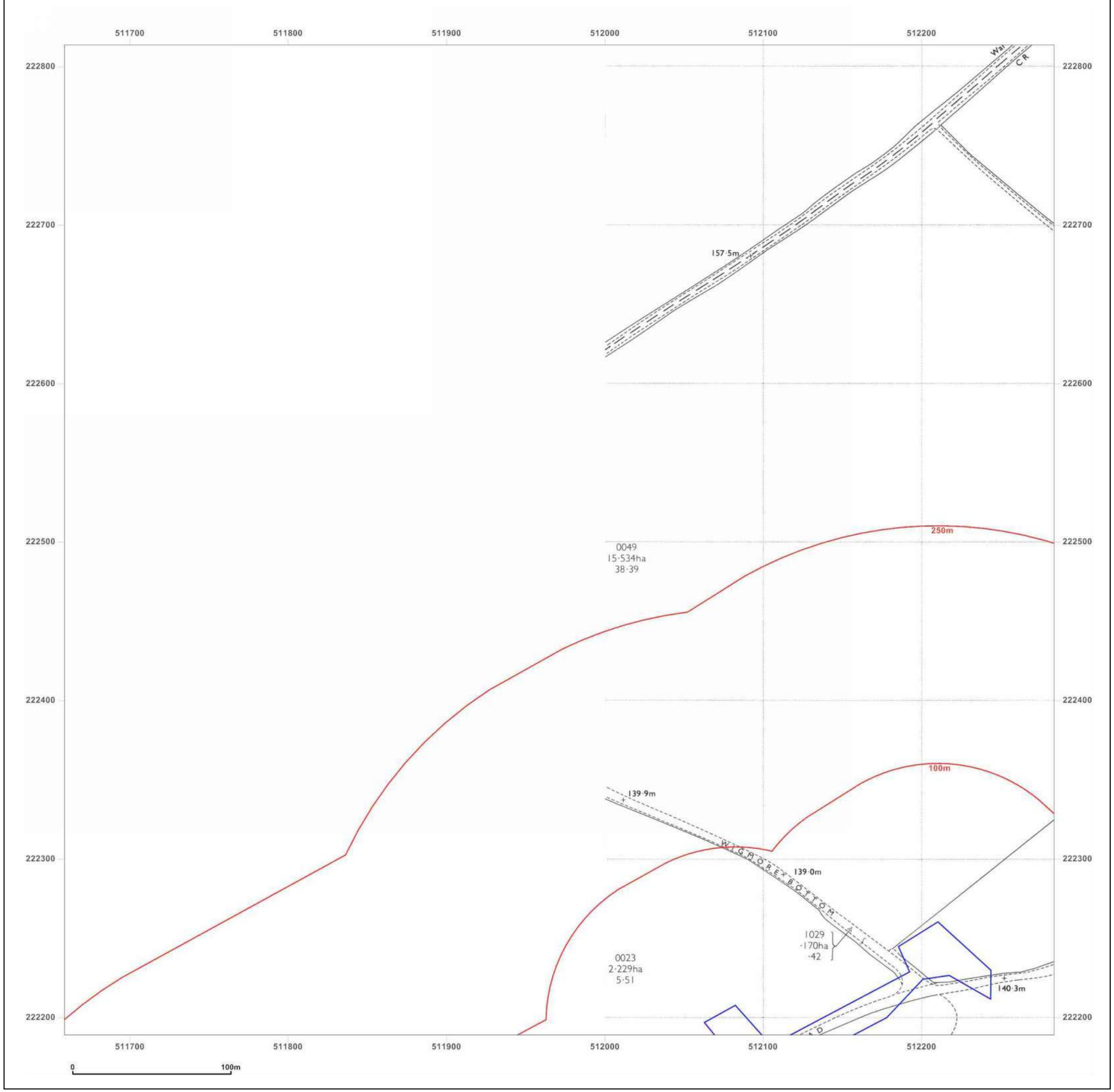

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_3_5
Grid Ref: 511971, 222501

Map Name: National Grid
Map date: **1971**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_1
Grid Ref: 512597, 219999

Map Name: County Series

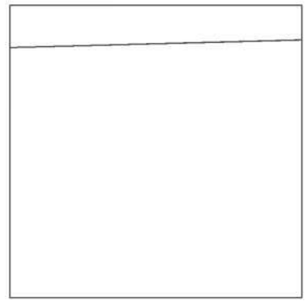
Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1881
Revised 1881
Edition N/A
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Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_1
Grid Ref: 512597, 219999

Map Name: County Series
Map date: **1898**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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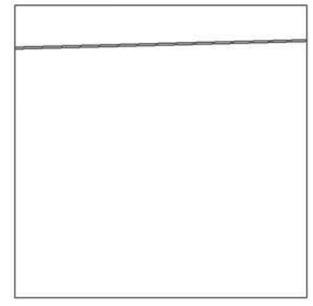

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

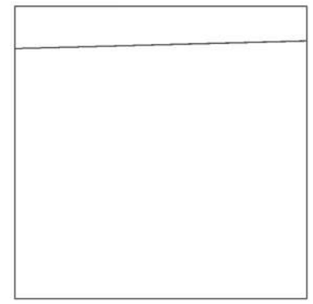
Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_1
Grid Ref: 512597, 219999

Map Name: County Series
Map date: **1901**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_1
Grid Ref: 512597, 219999

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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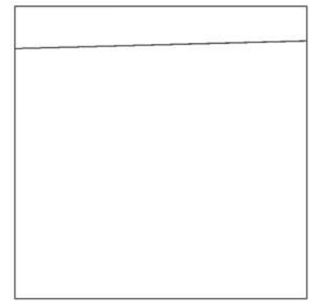
Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_1
Grid Ref: 512597, 219999

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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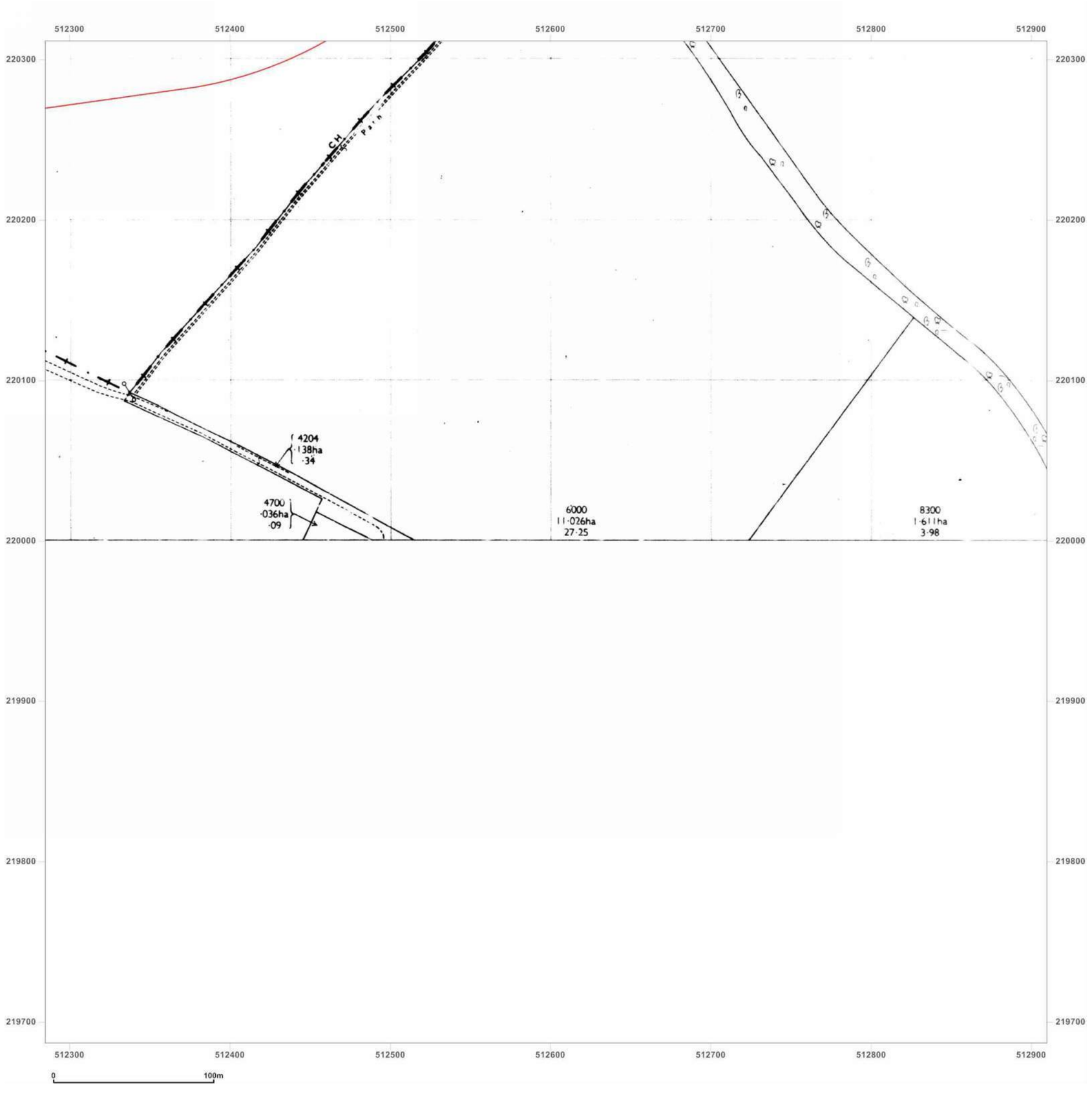

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_1
Grid Ref: 512597, 219999

Map Name: National Grid

Map date: **1973**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

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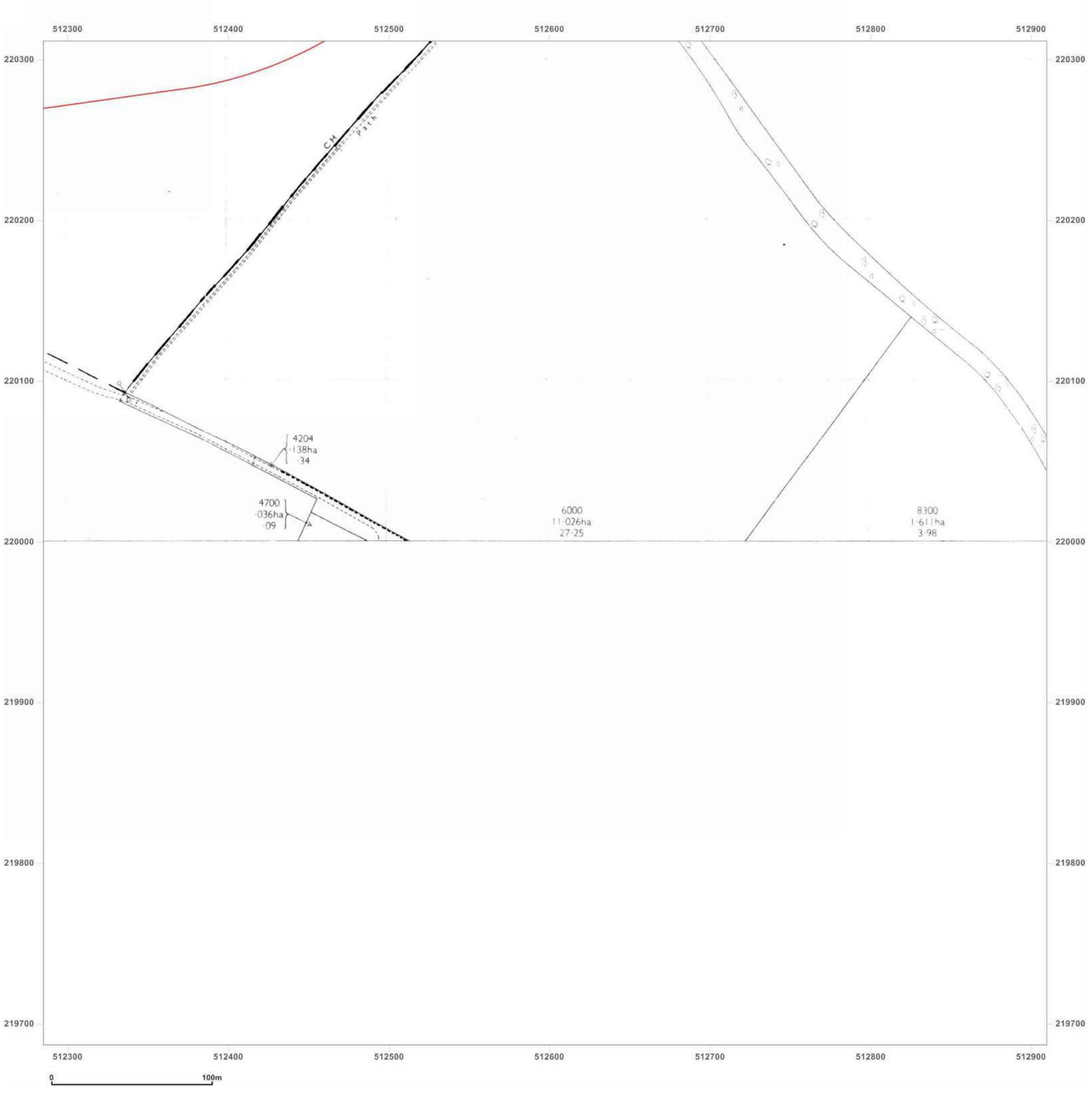

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_1
Grid Ref: 512597, 219999

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
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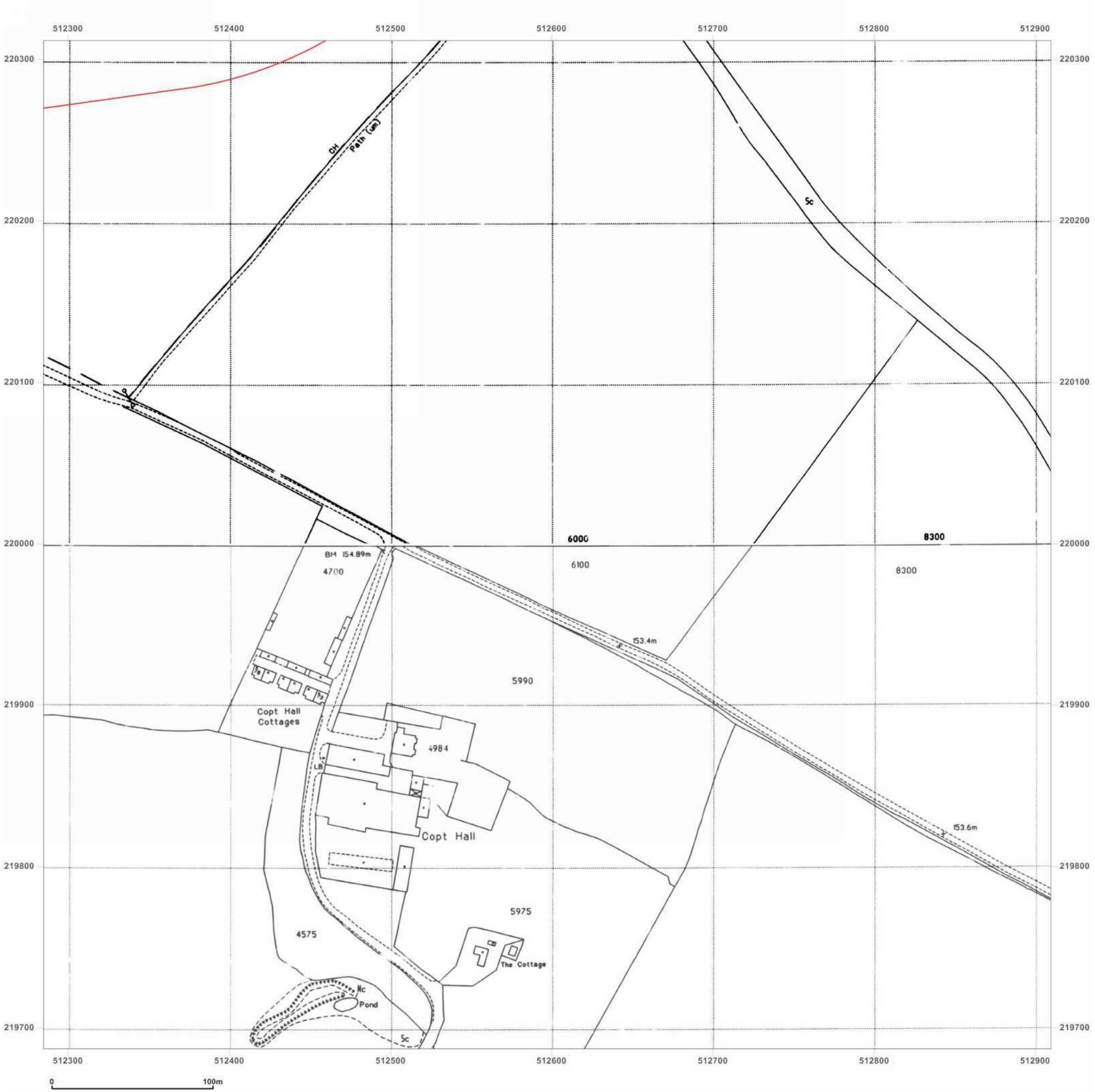

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_1
Grid Ref: 512597, 219999

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
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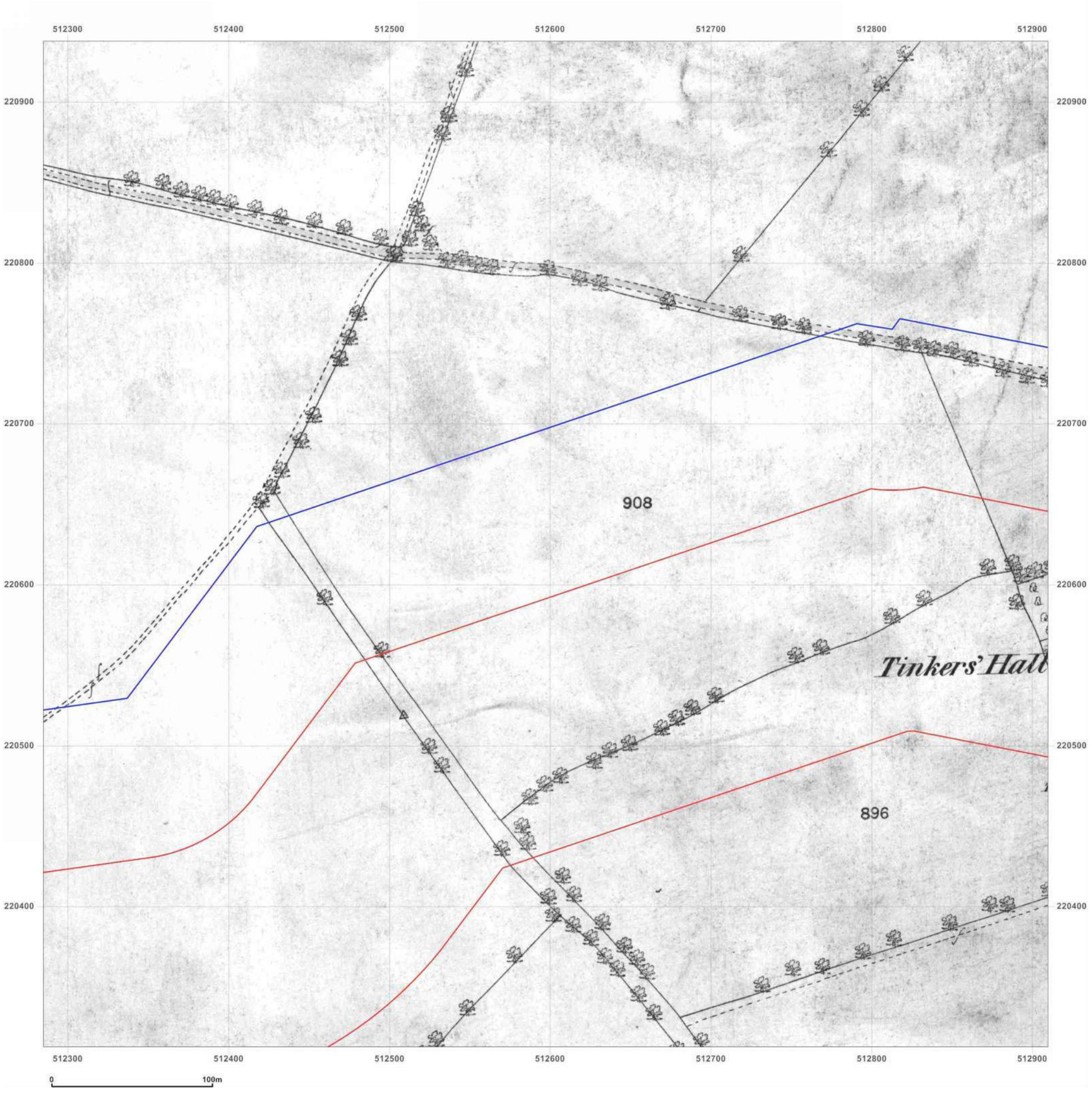

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_2
Grid Ref: 512597, 220625

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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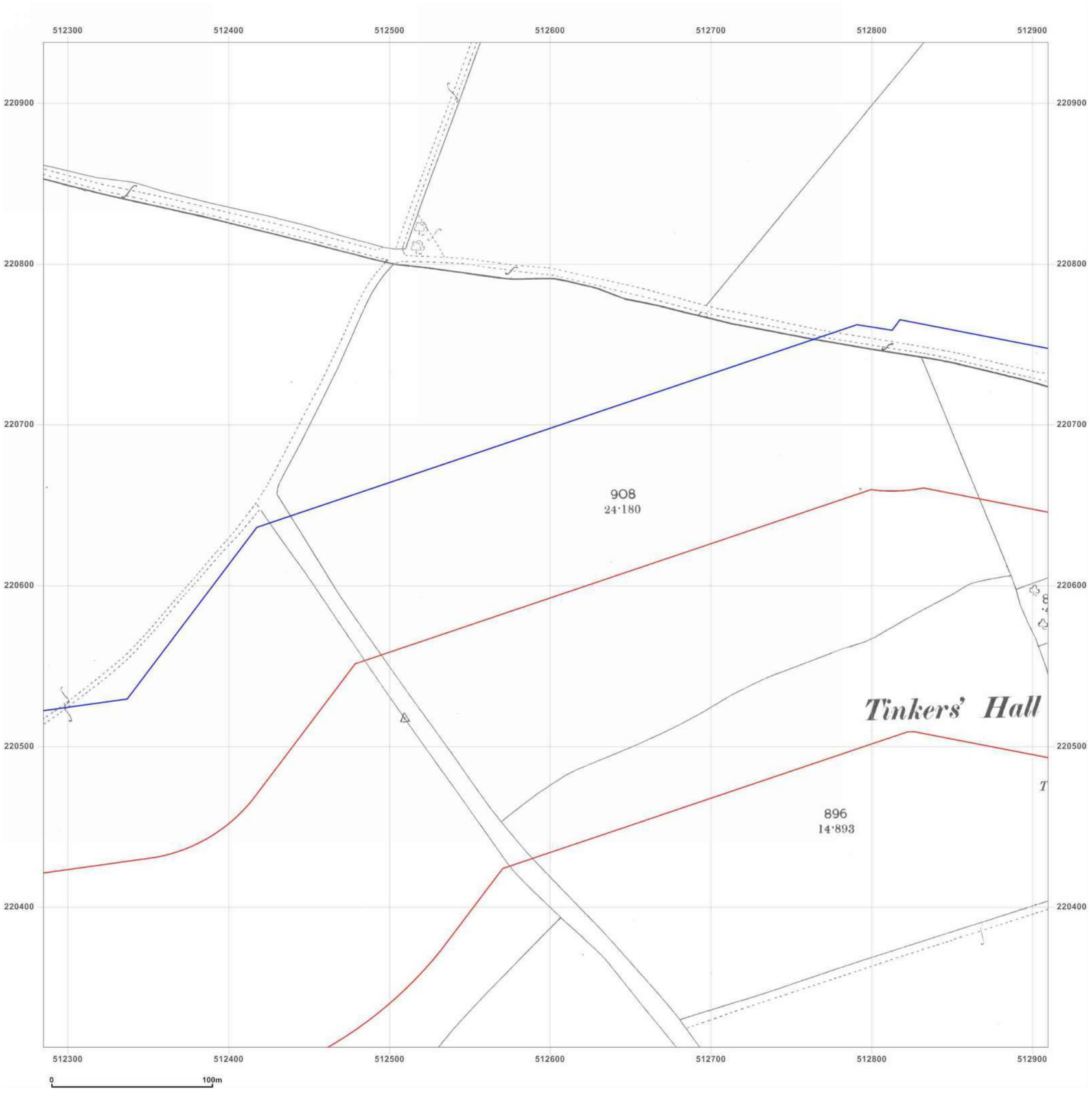

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_2
Grid Ref: 512597, 220625

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
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Levelled N/A

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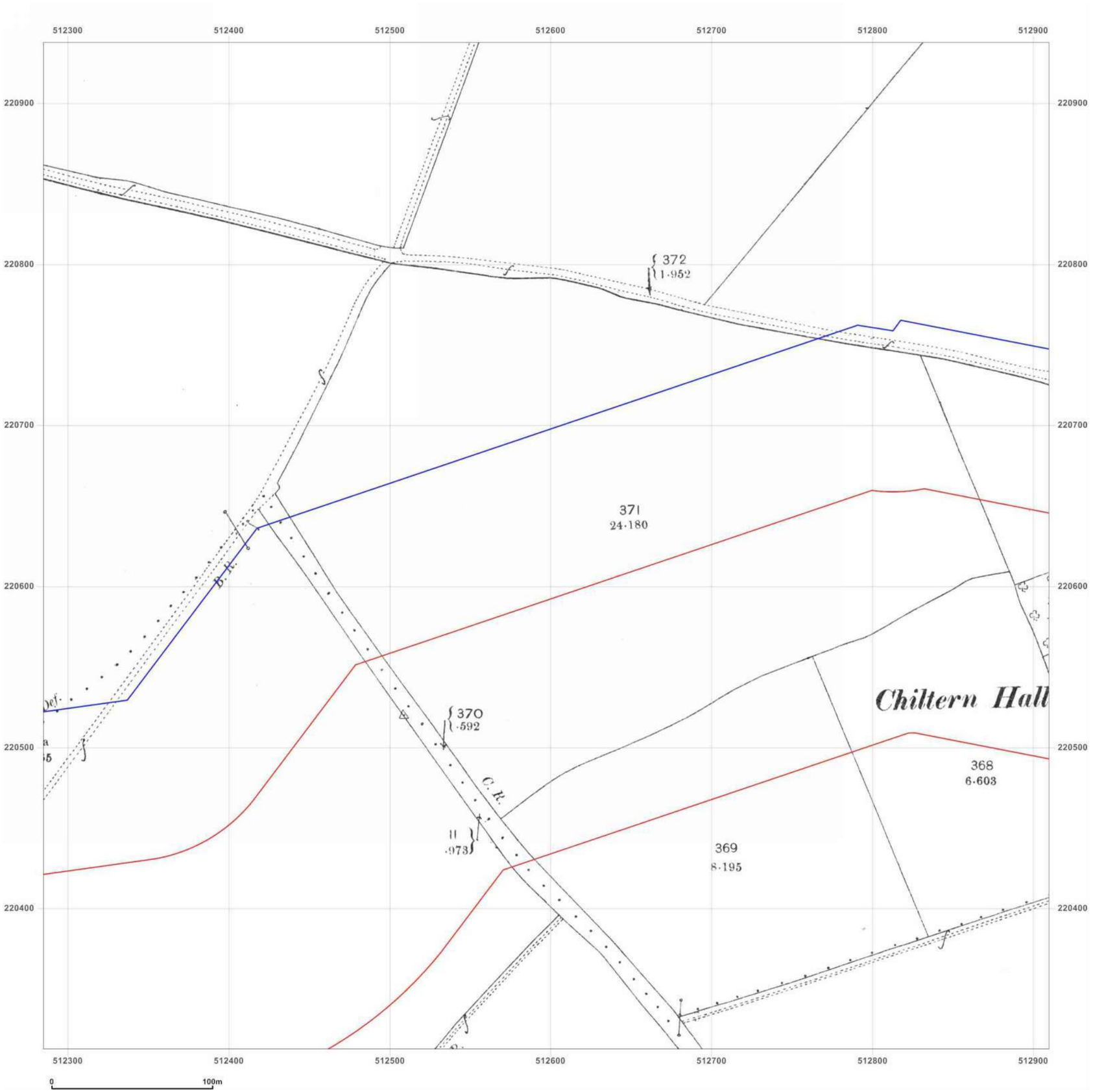

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_2
Grid Ref: 512597, 220625

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
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Levelled N/A

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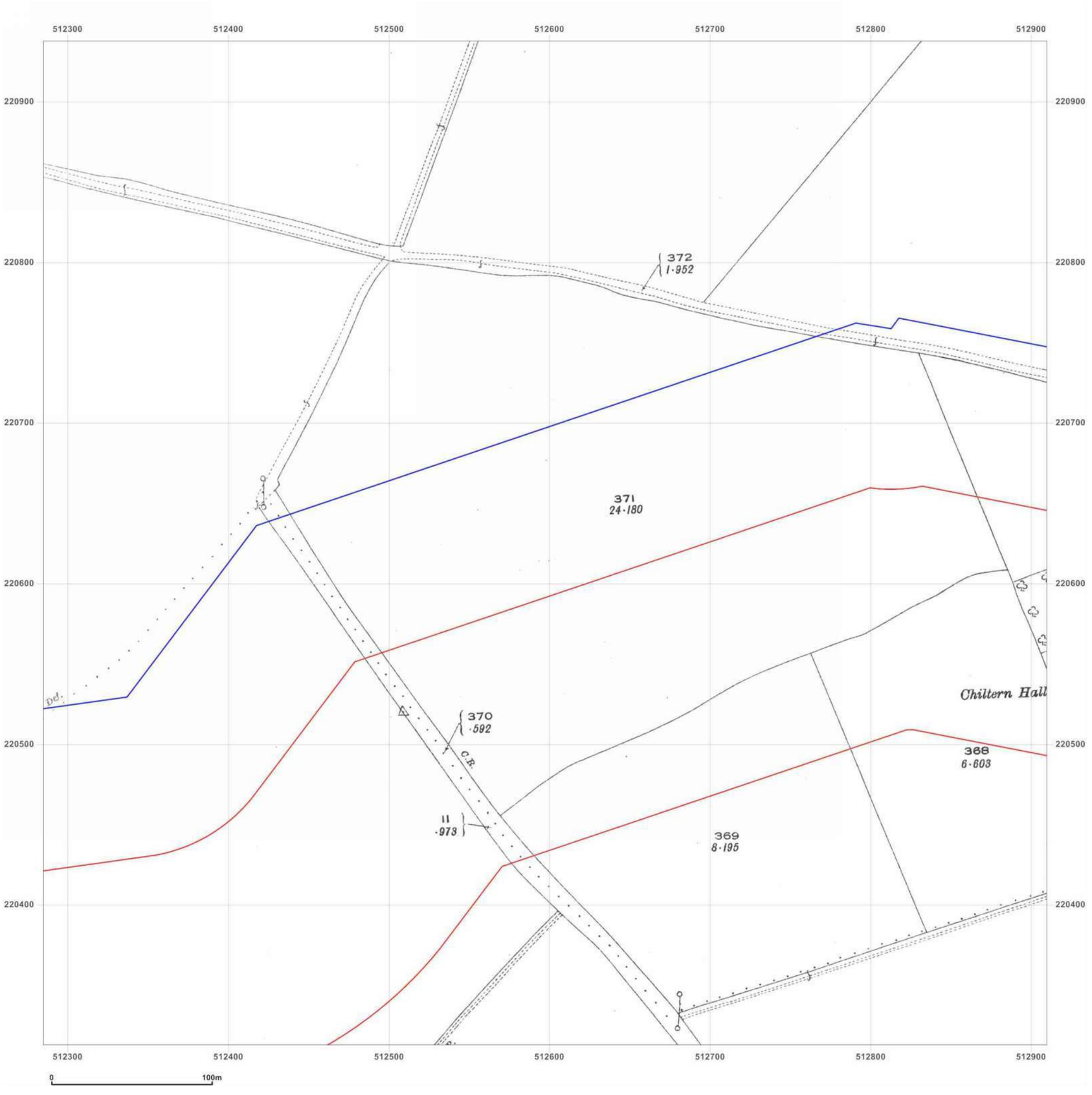

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_2
Grid Ref: 512597, 220625

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
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S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
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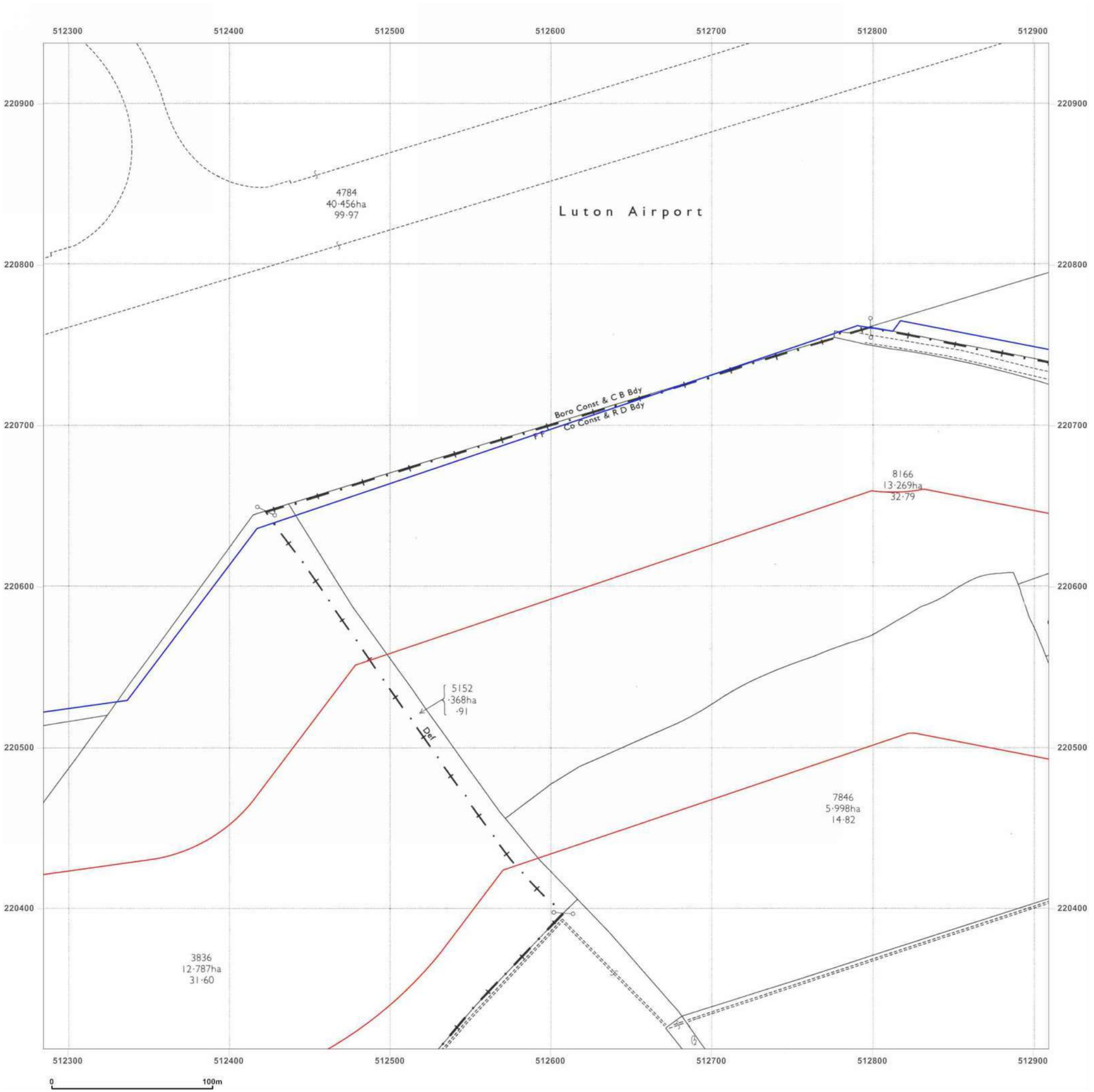

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_2
Grid Ref: 512597, 220625

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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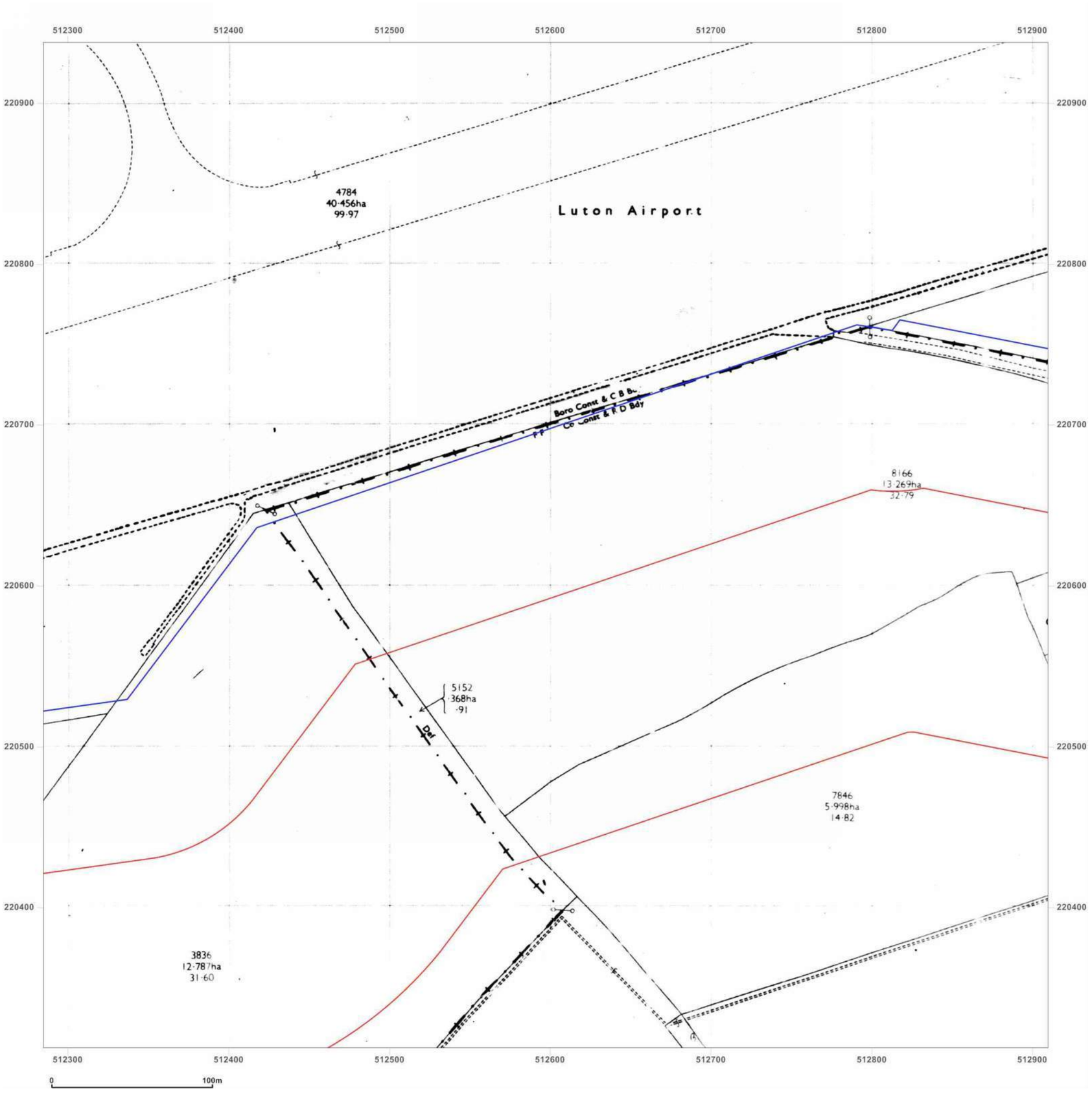

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_2
Grid Ref: 512597, 220625

Map Name: National Grid

Map date: **1973**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
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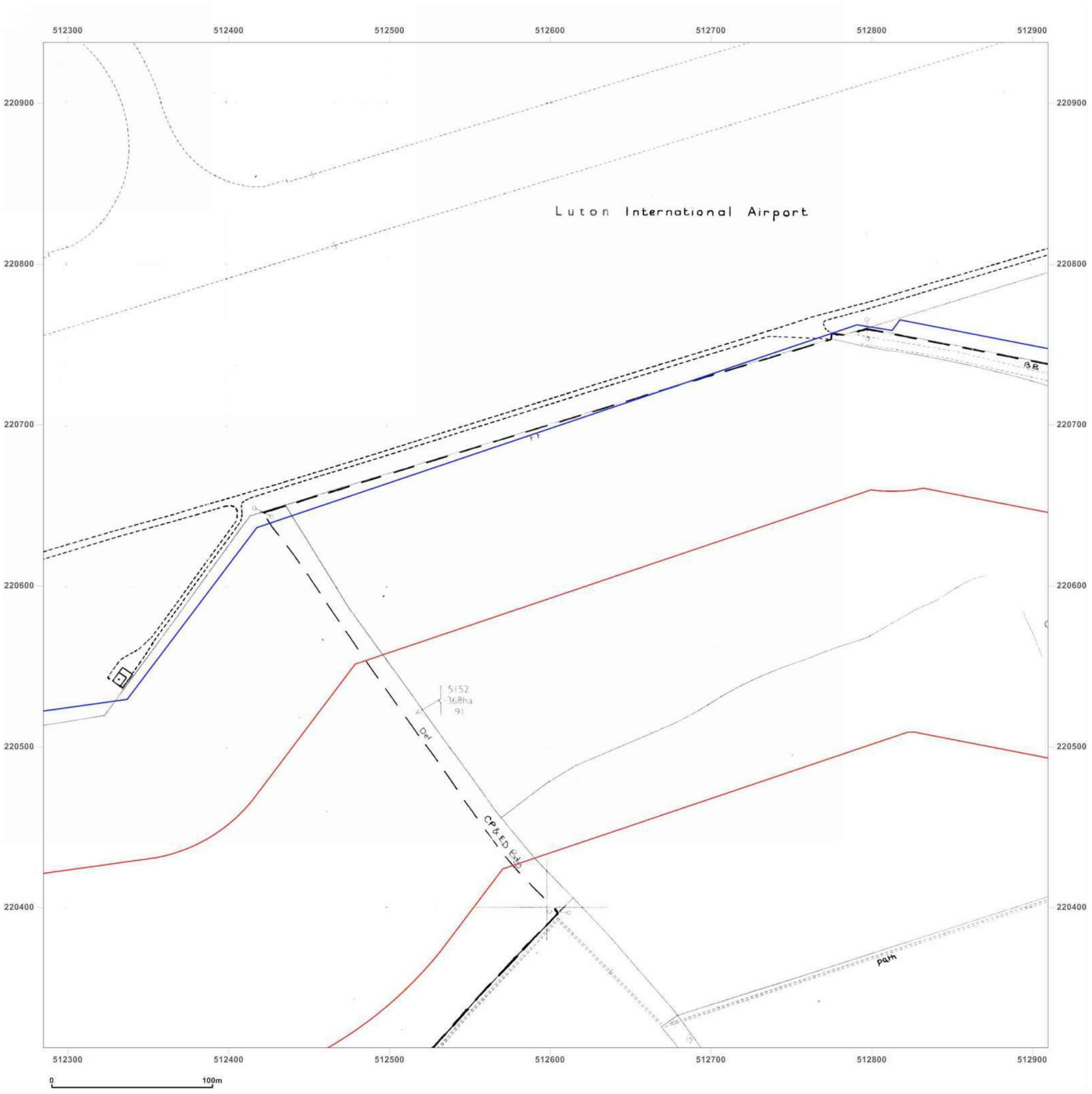

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_2
Grid Ref: 512597, 220625

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

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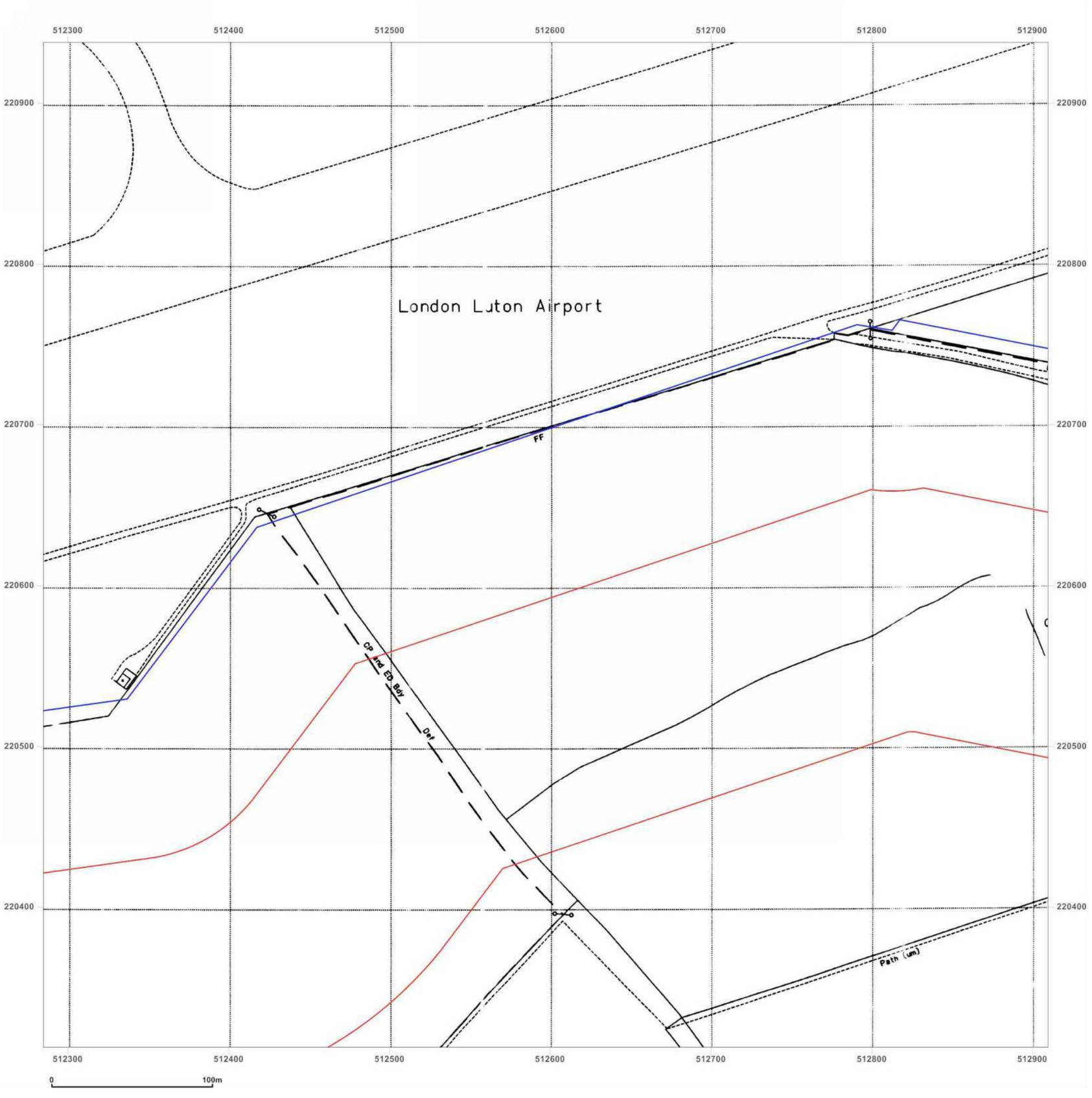

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_2
Grid Ref: 512597, 220625

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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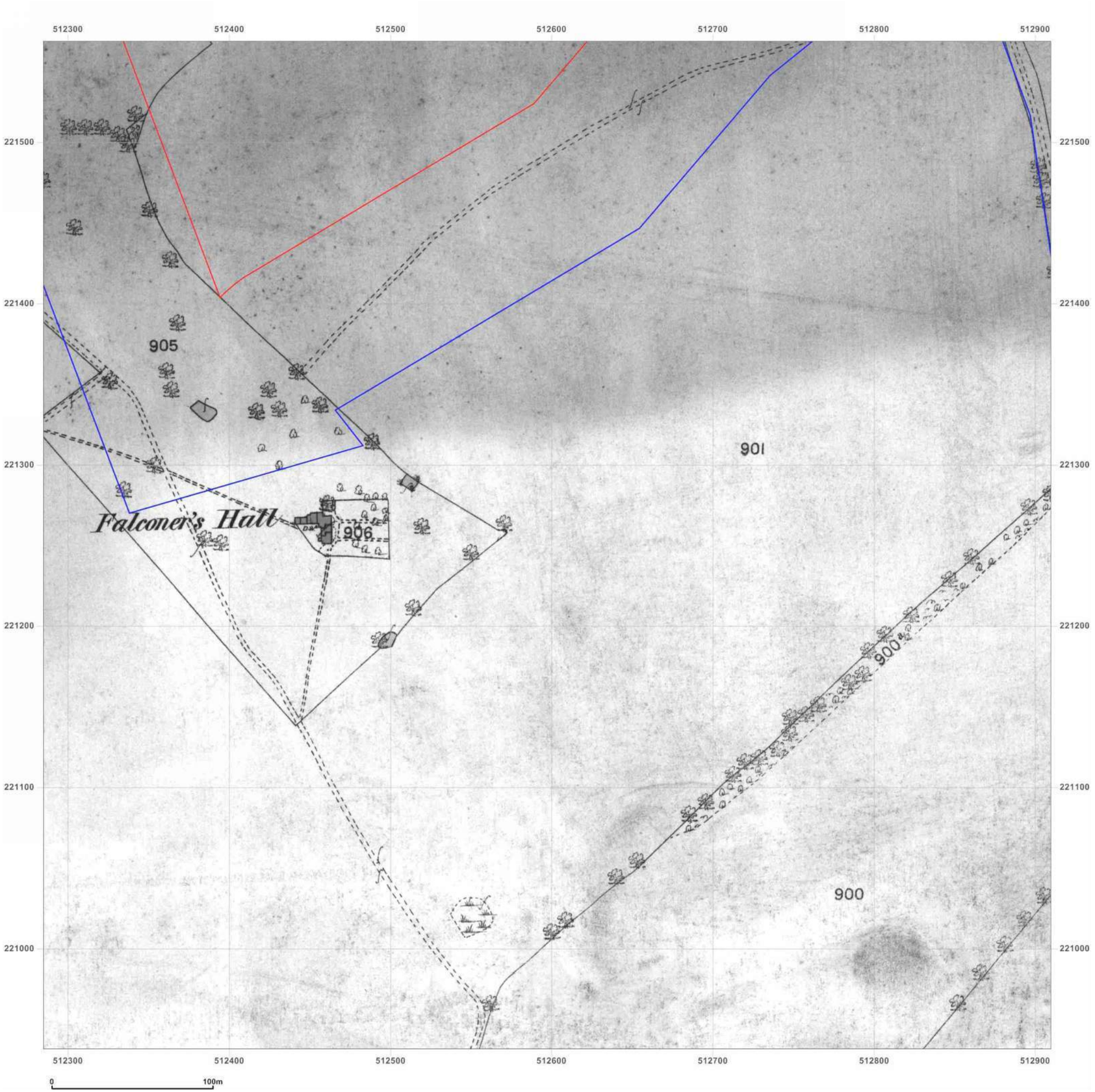

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_3
Grid Ref: 512597, 221250

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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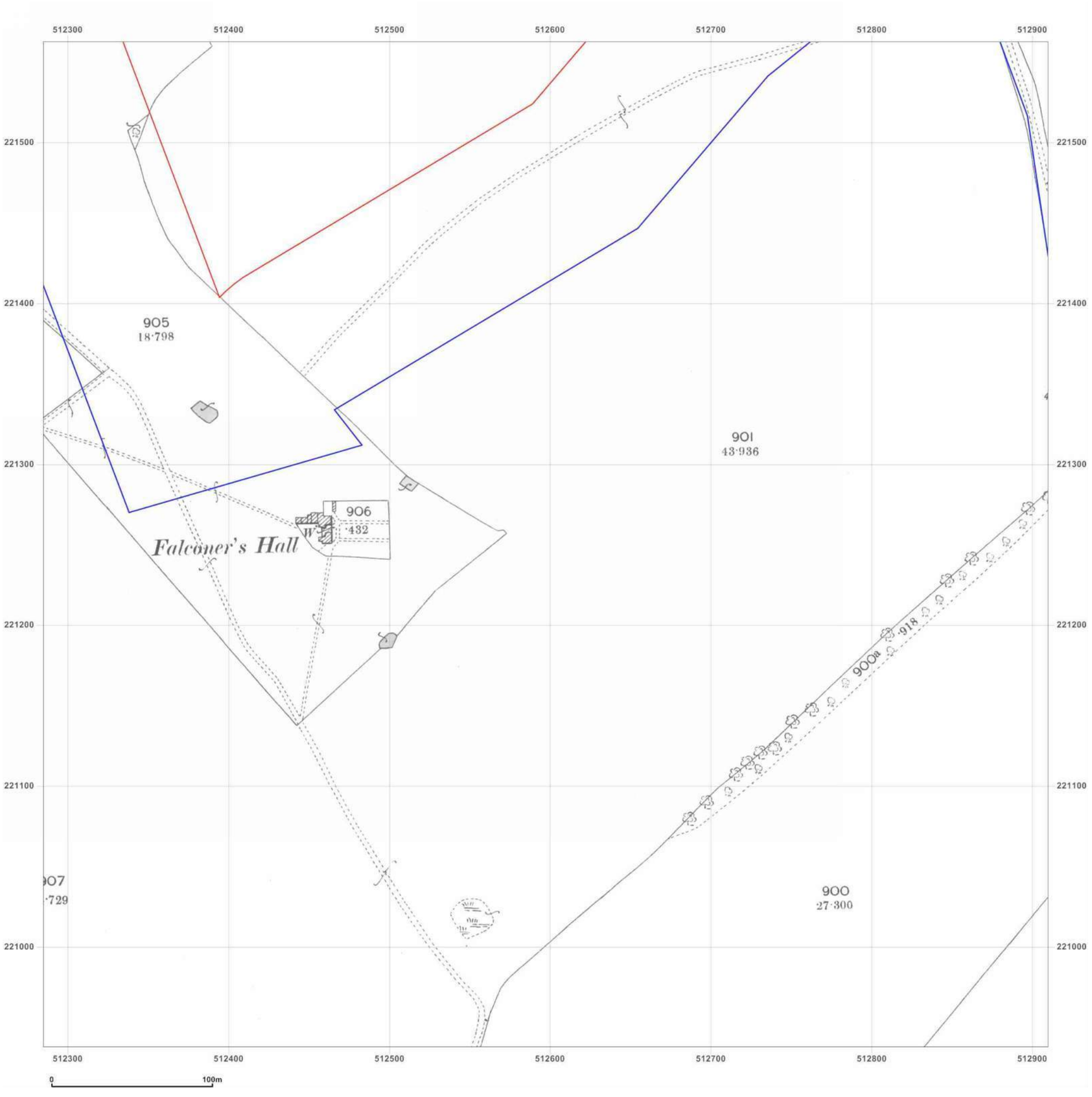

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_3
Grid Ref: 512597, 221250

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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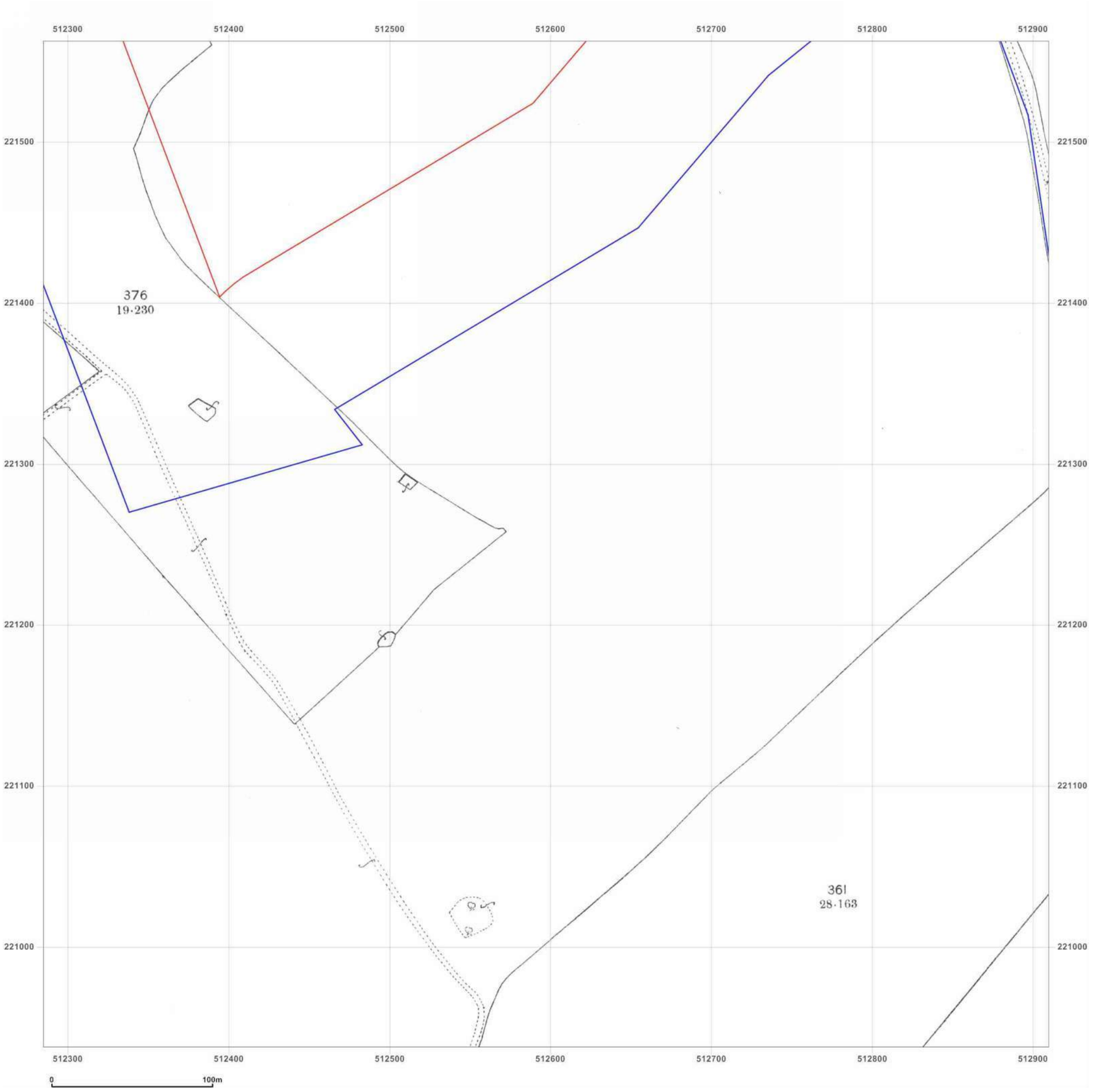

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_3
Grid Ref: 512597, 221250

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
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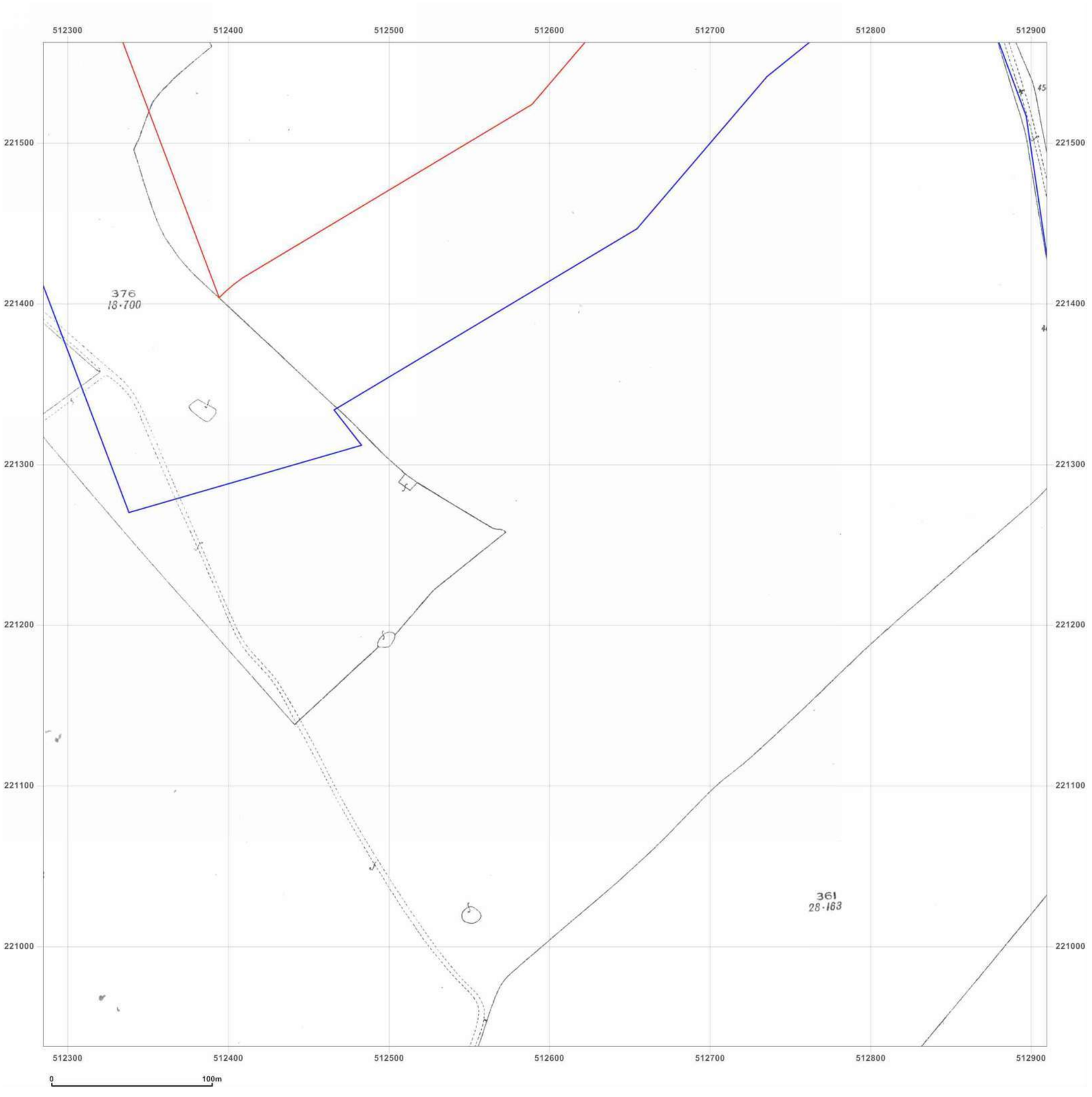

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_3
Grid Ref: 512597, 221250

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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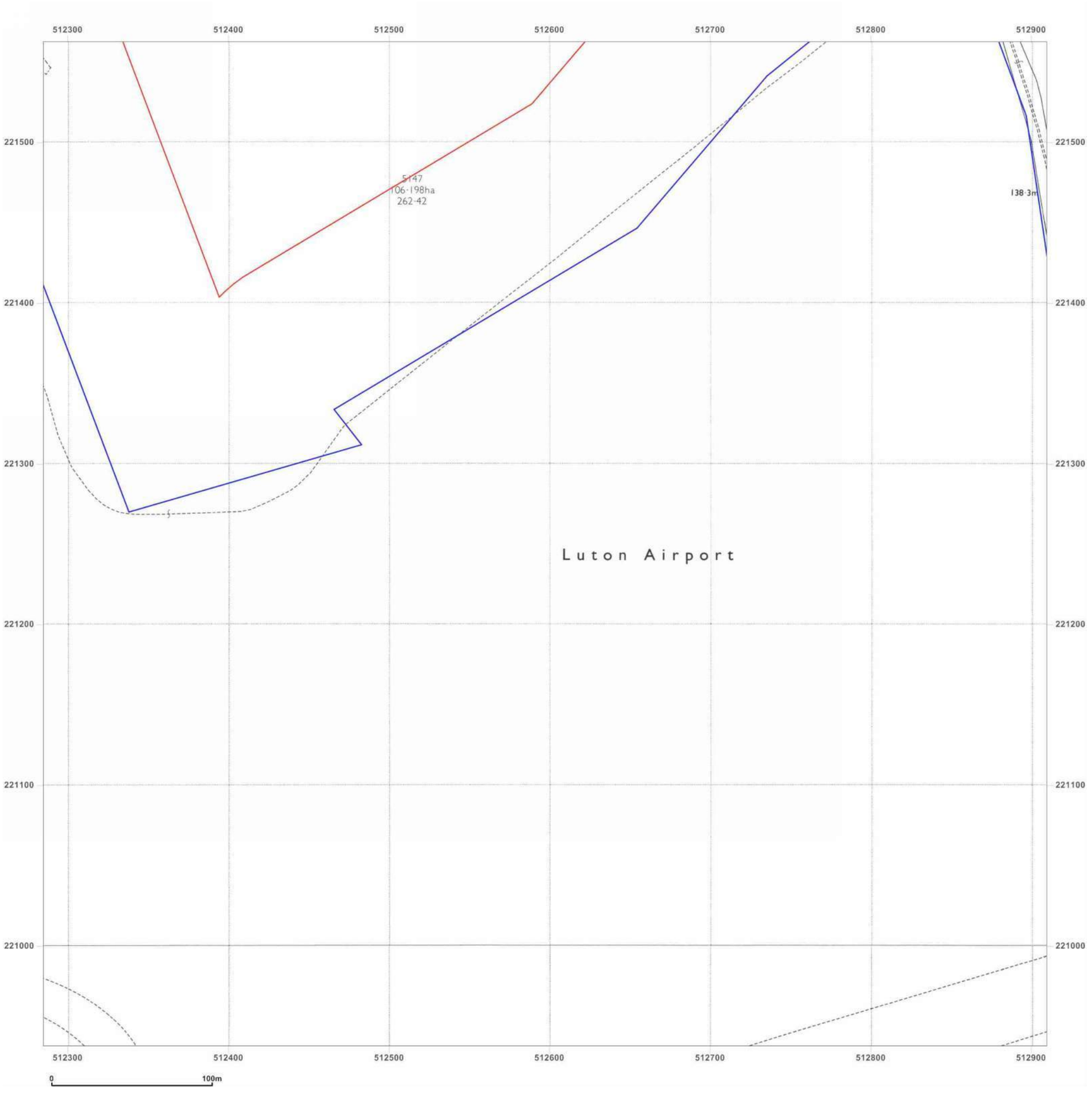

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_3
Grid Ref: 512597, 221250

Map Name: National Grid
Map date: **1971**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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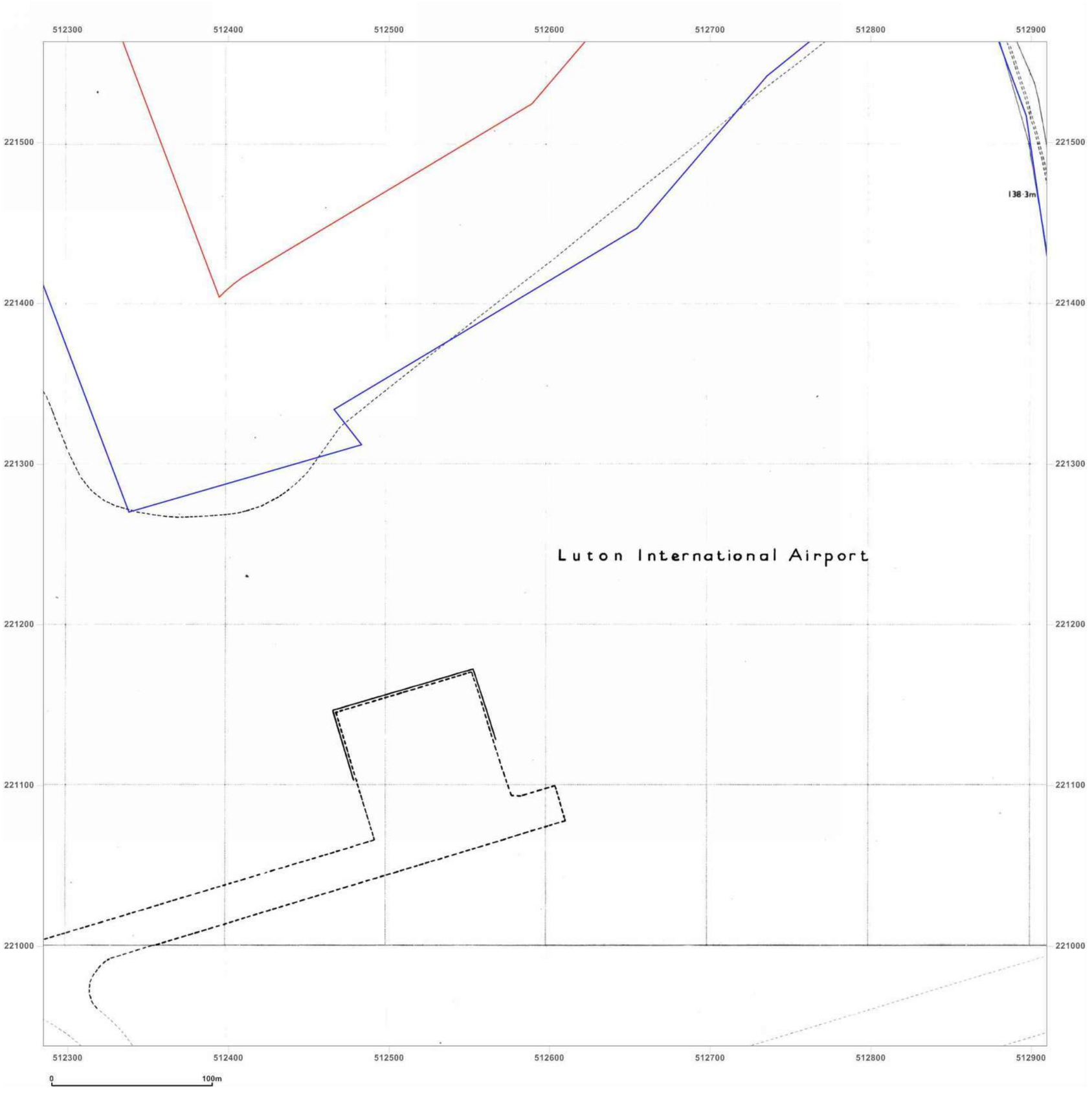

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_3
Grid Ref: 512597, 221250

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

Surveyed 1958
Revised 1990
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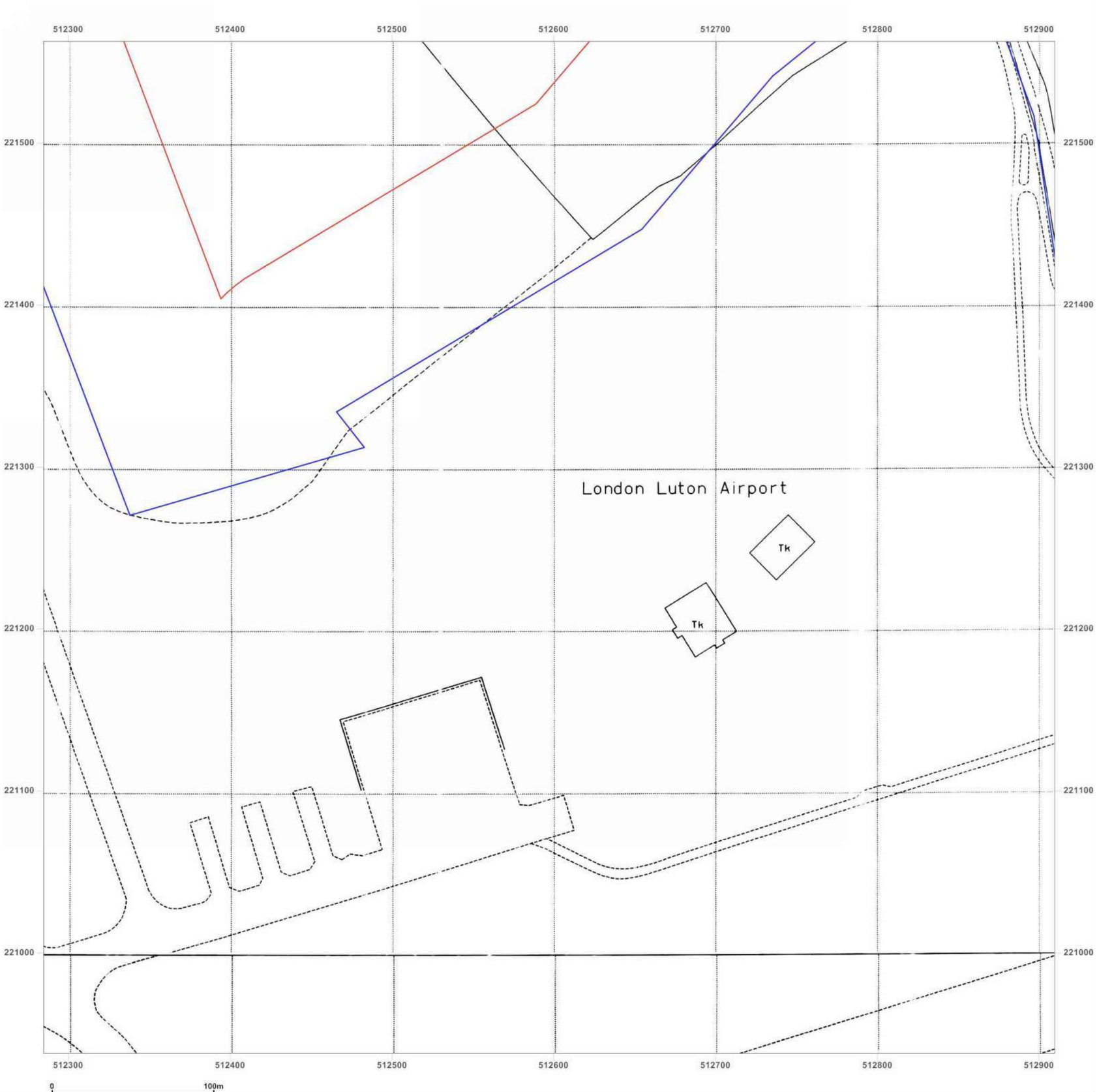

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_3
Grid Ref: 512597, 221250

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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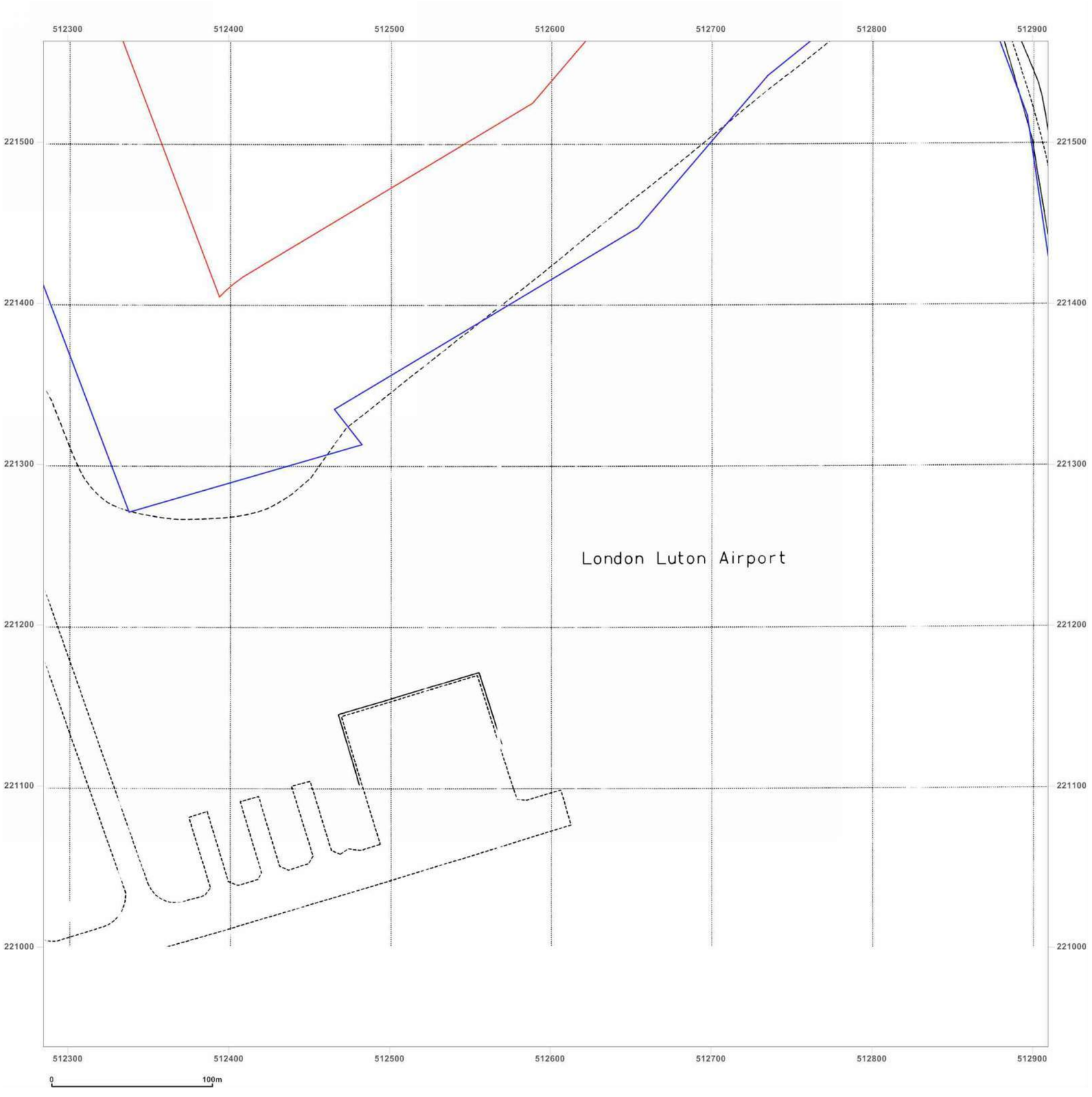

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_3
Grid Ref: 512597, 221250

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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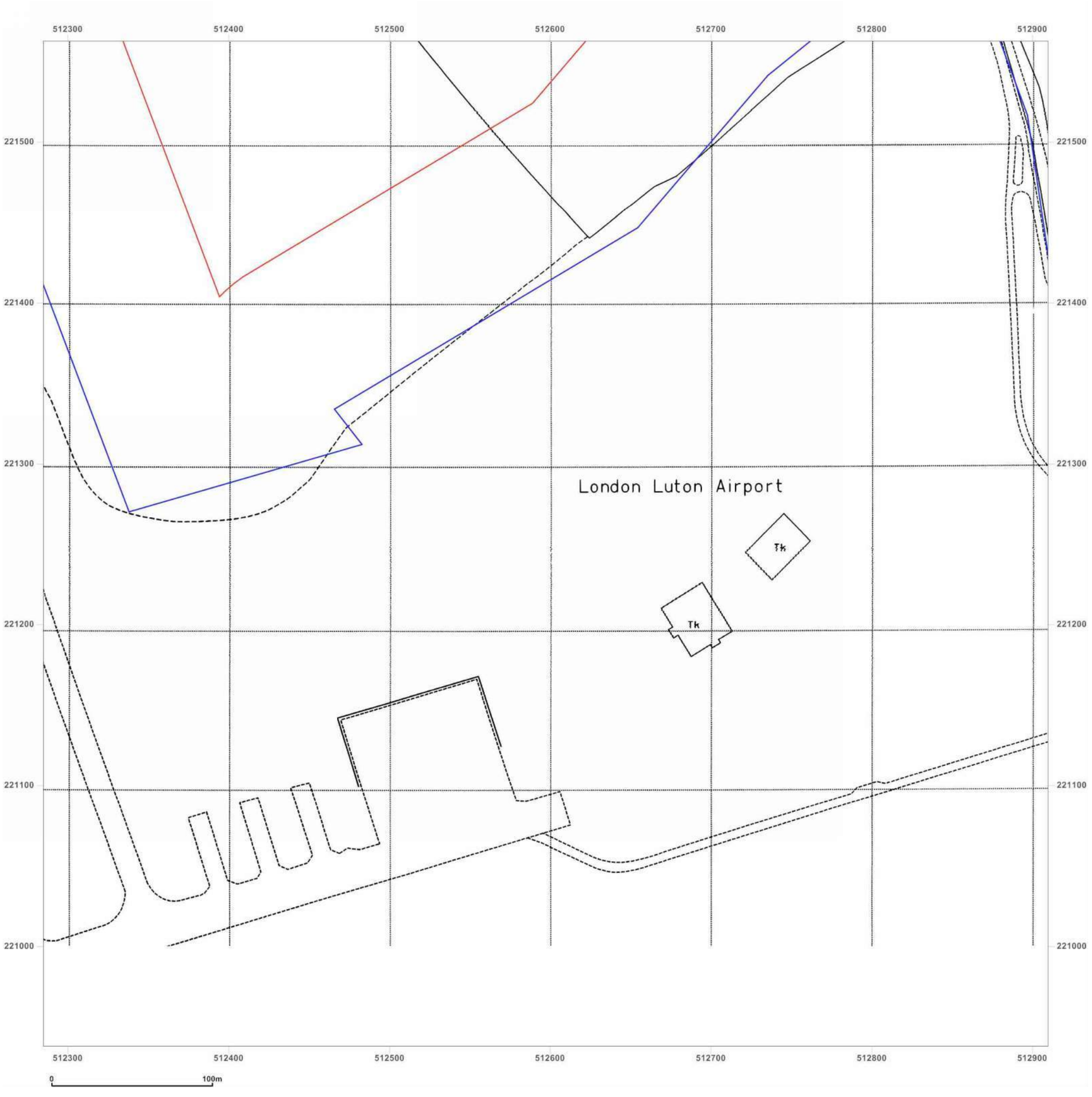

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_3
Grid Ref: 512597, 221250

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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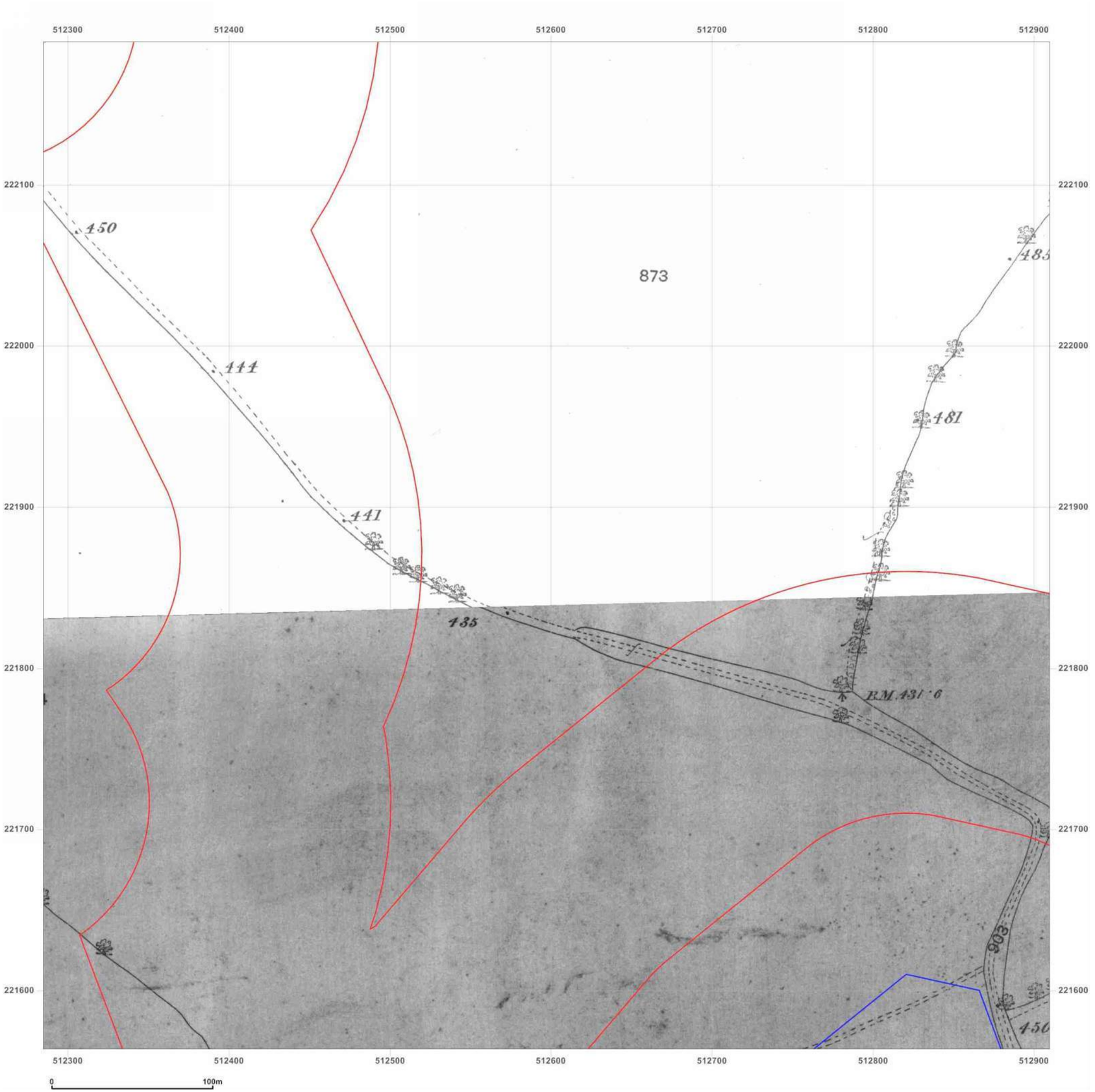

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_4
Grid Ref: 512597, 221876

Map Name: County Series
Map date: 1881
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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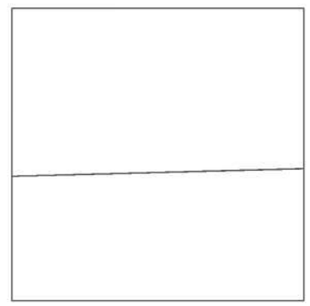
Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
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Production date: 20 November 2020

Map legend available at:
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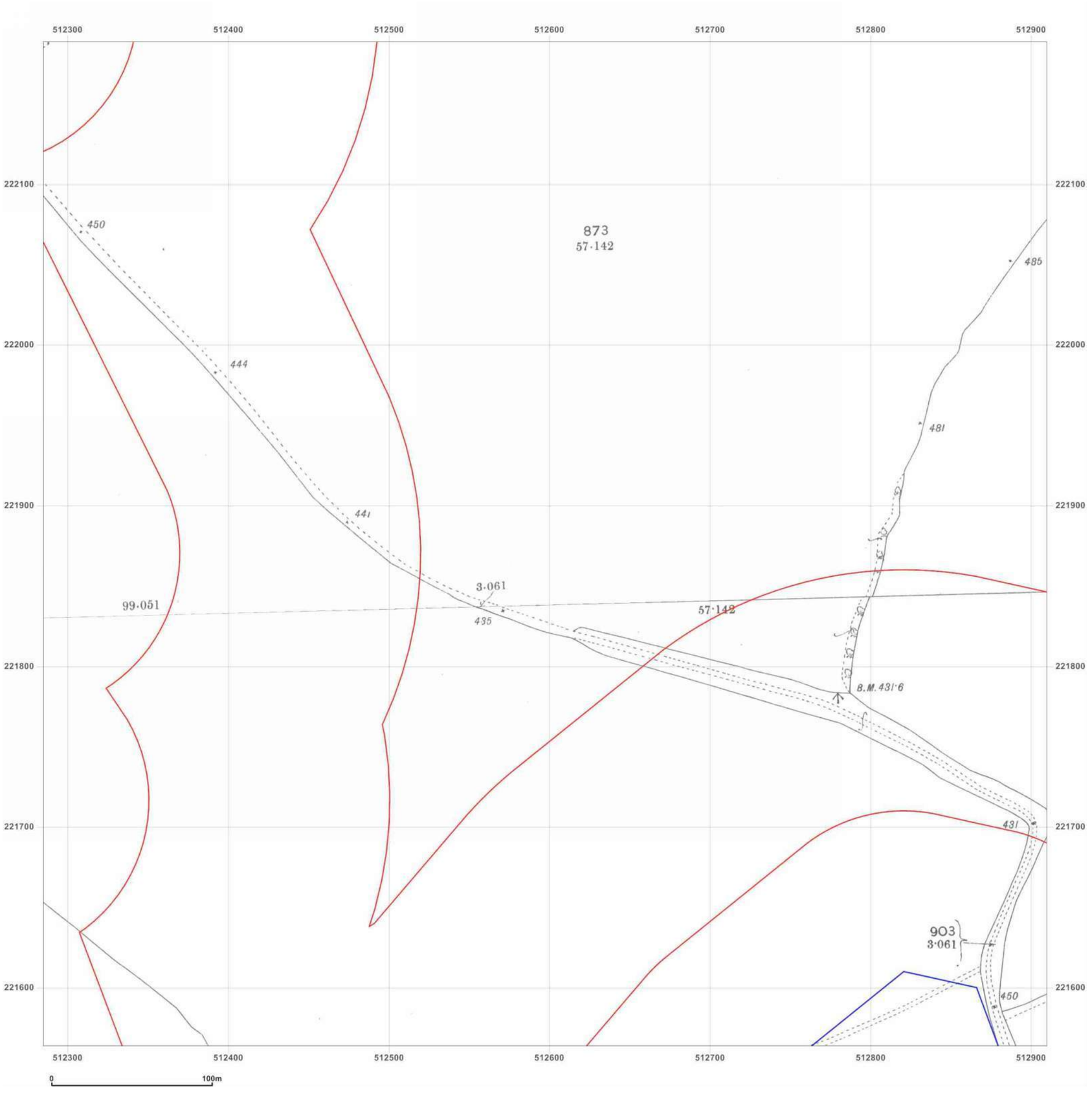

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_4
Grid Ref: 512597, 221876

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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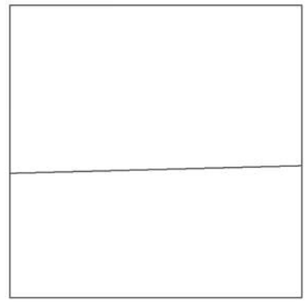
Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
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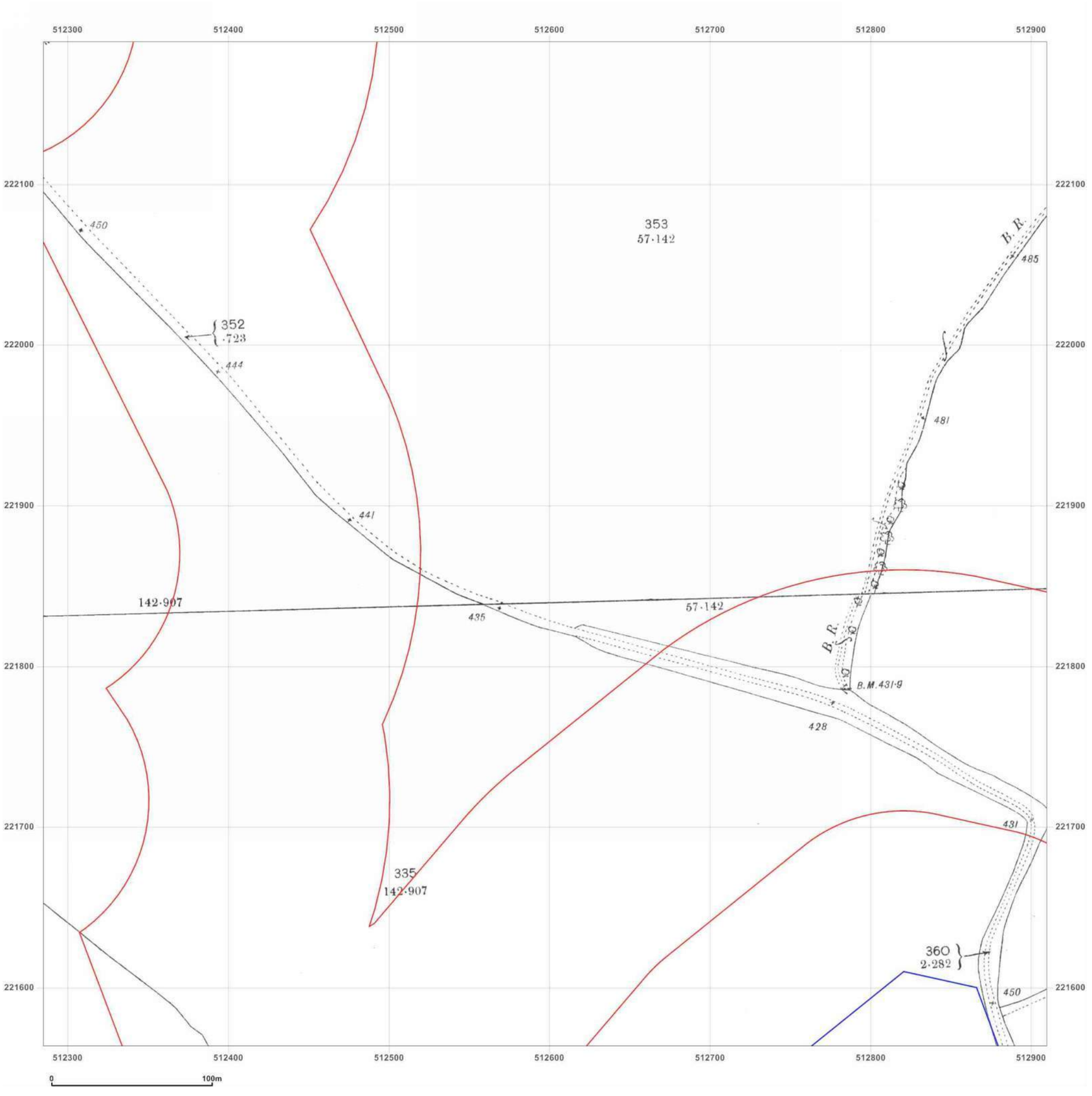

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_4
Grid Ref: 512597, 221876

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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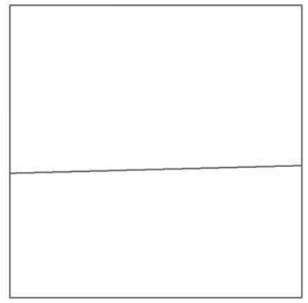
Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



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Revised 1901
Edition N/A
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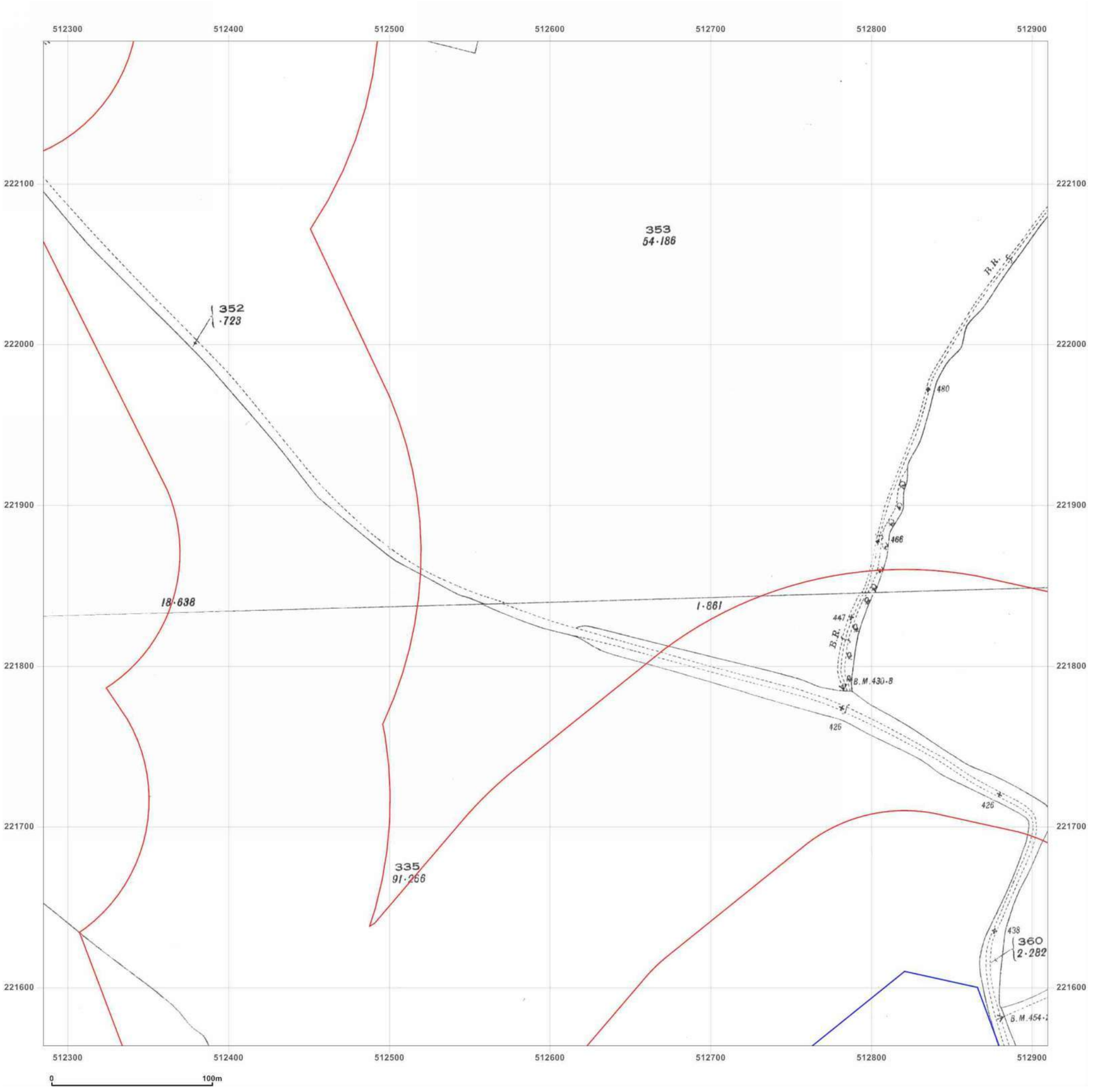


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_4
Grid Ref: 512597, 221876

Map Name: County Series

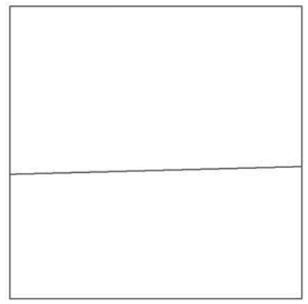
Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
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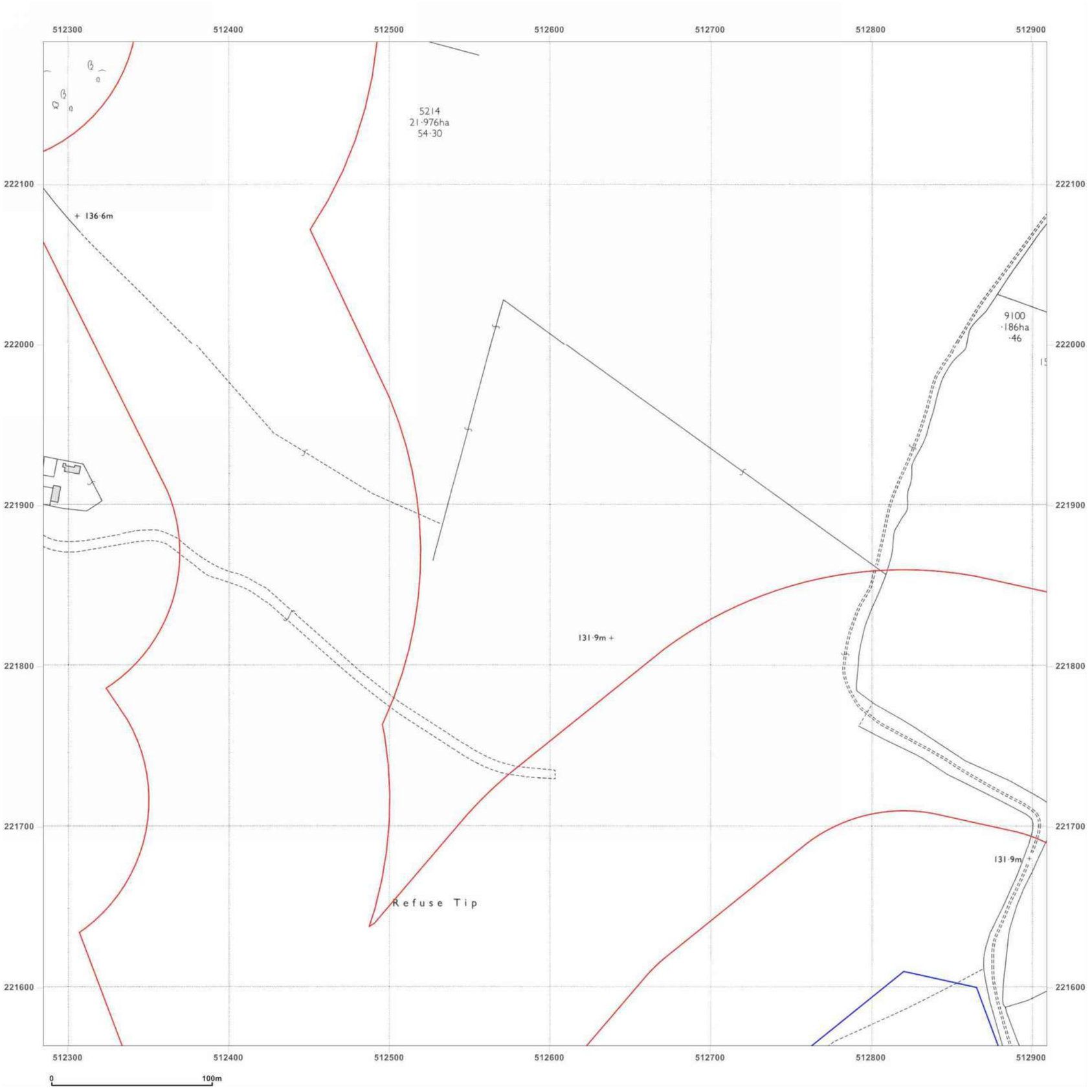

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_4
Grid Ref: 512597, 221876

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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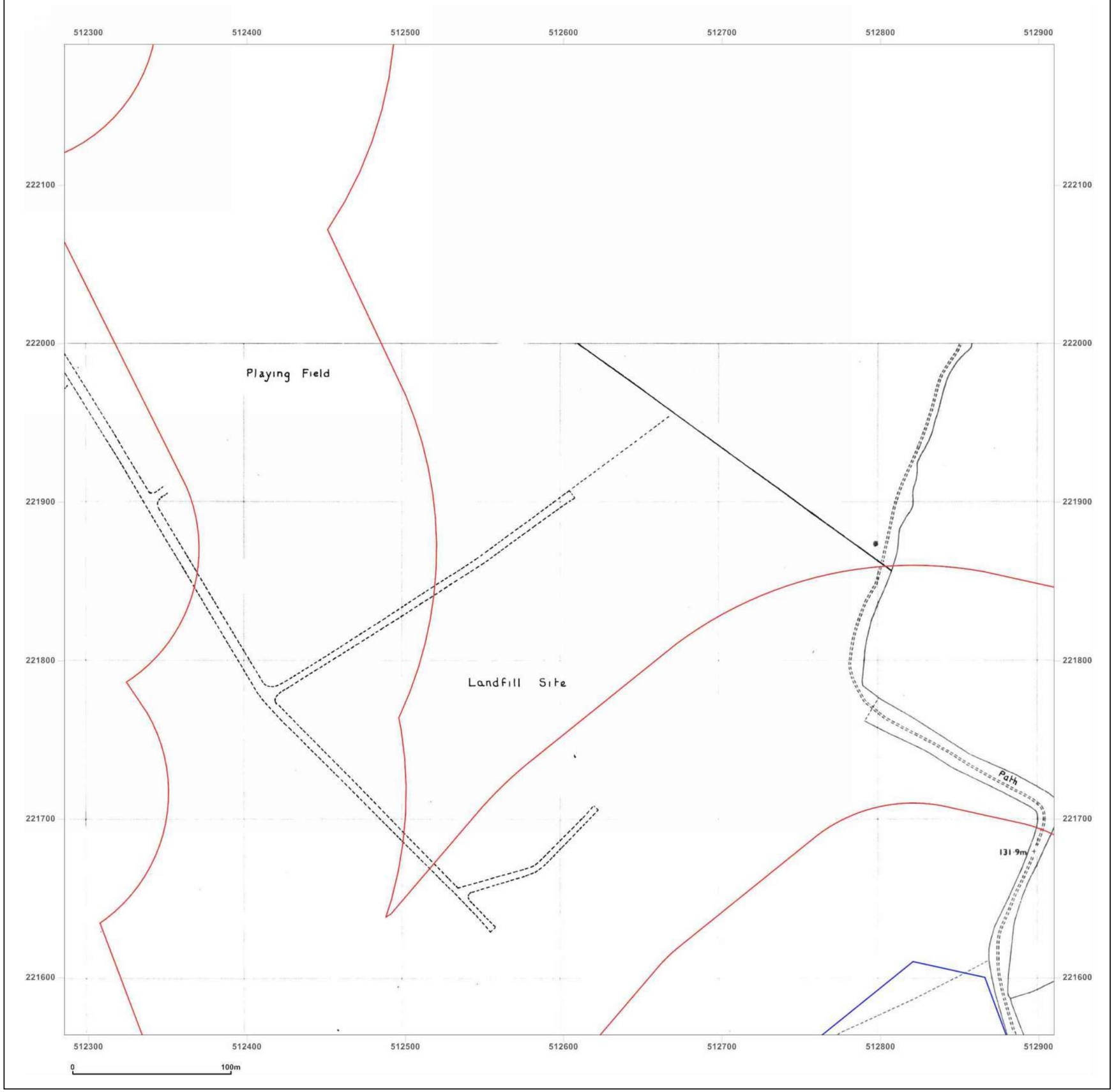

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_4
Grid Ref: 512597, 221876

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
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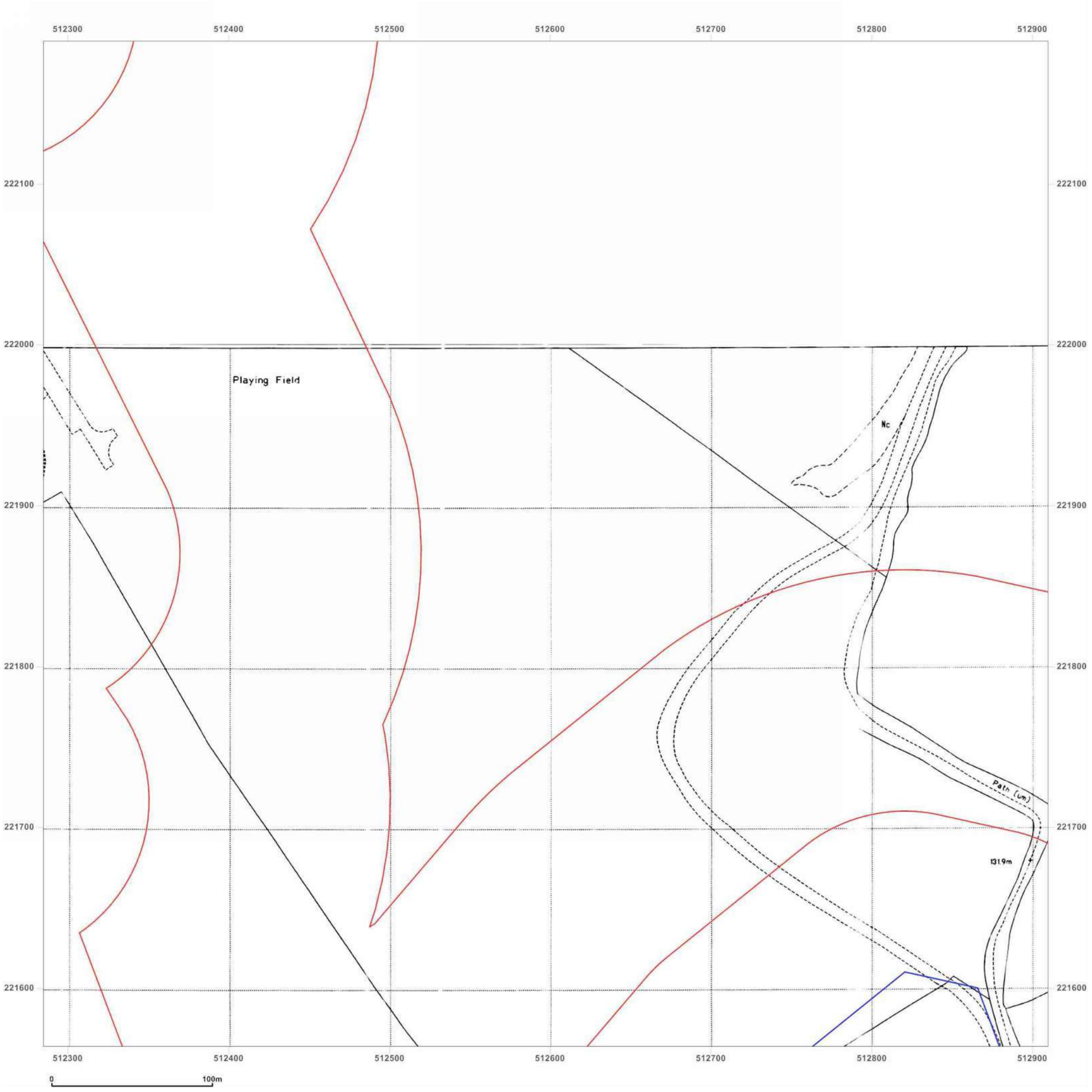

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_4
Grid Ref: 512597, 221876

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
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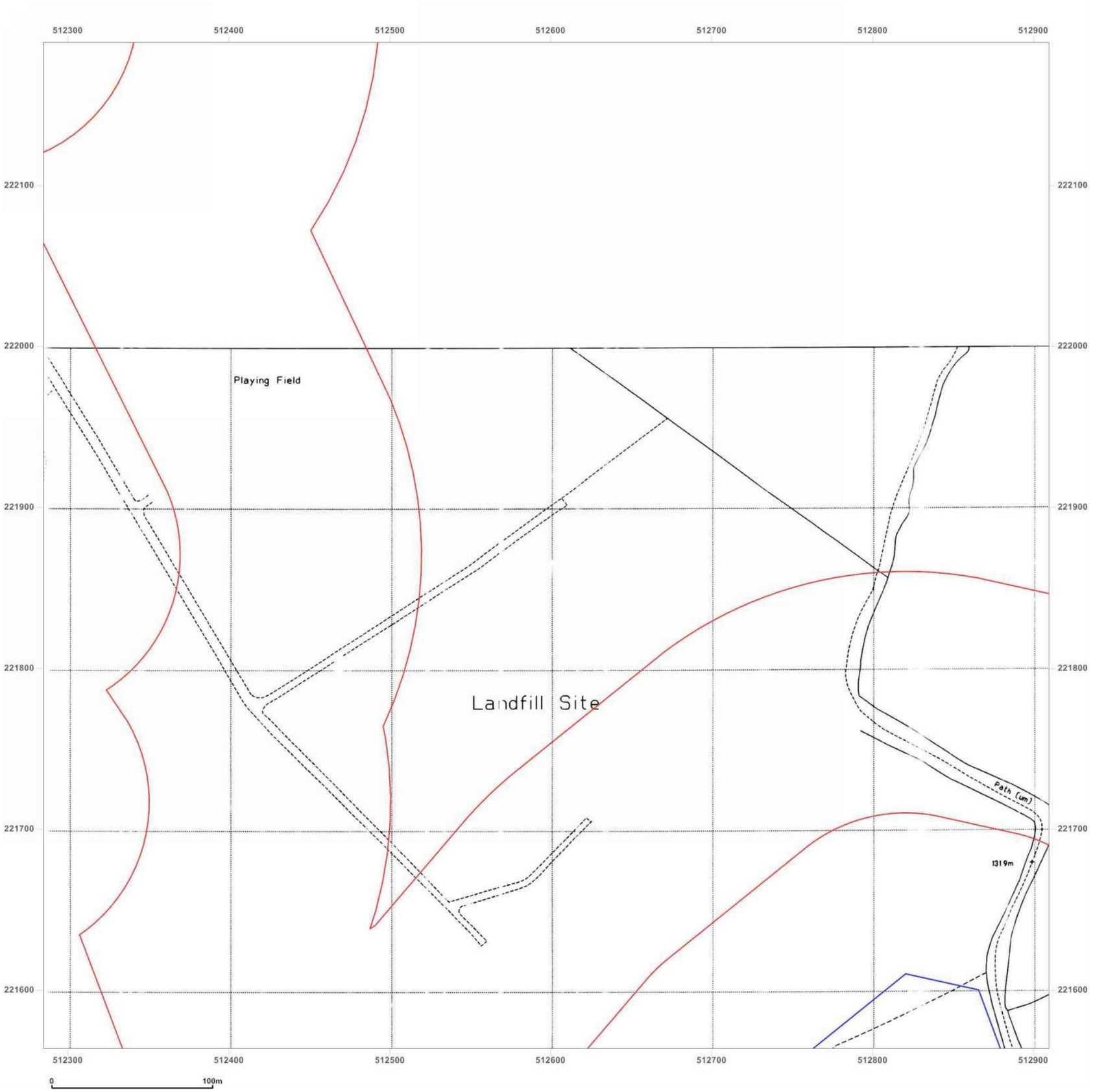

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_4
Grid Ref: 512597, 221876

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
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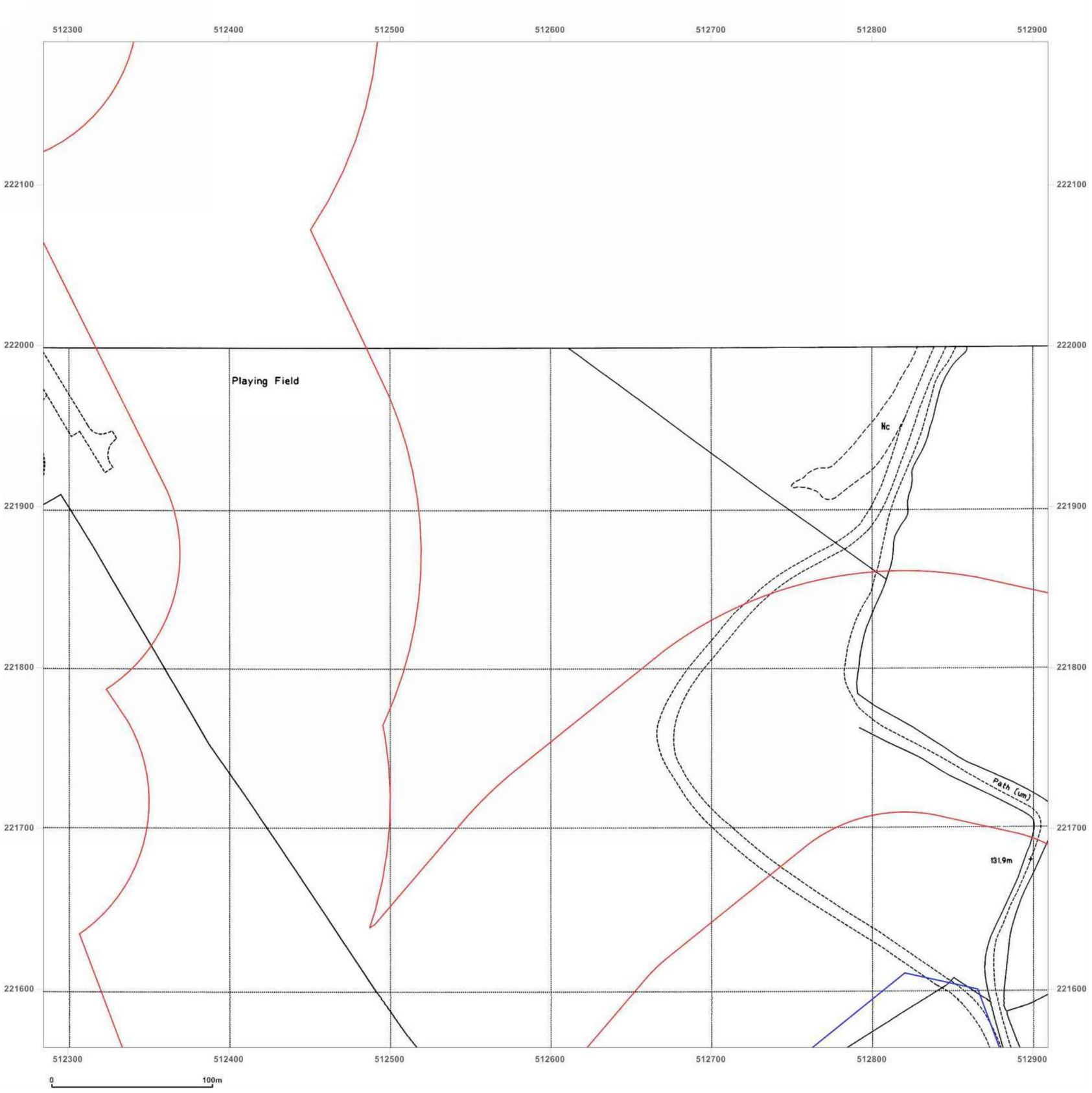

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_4
Grid Ref: 512597, 221876

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
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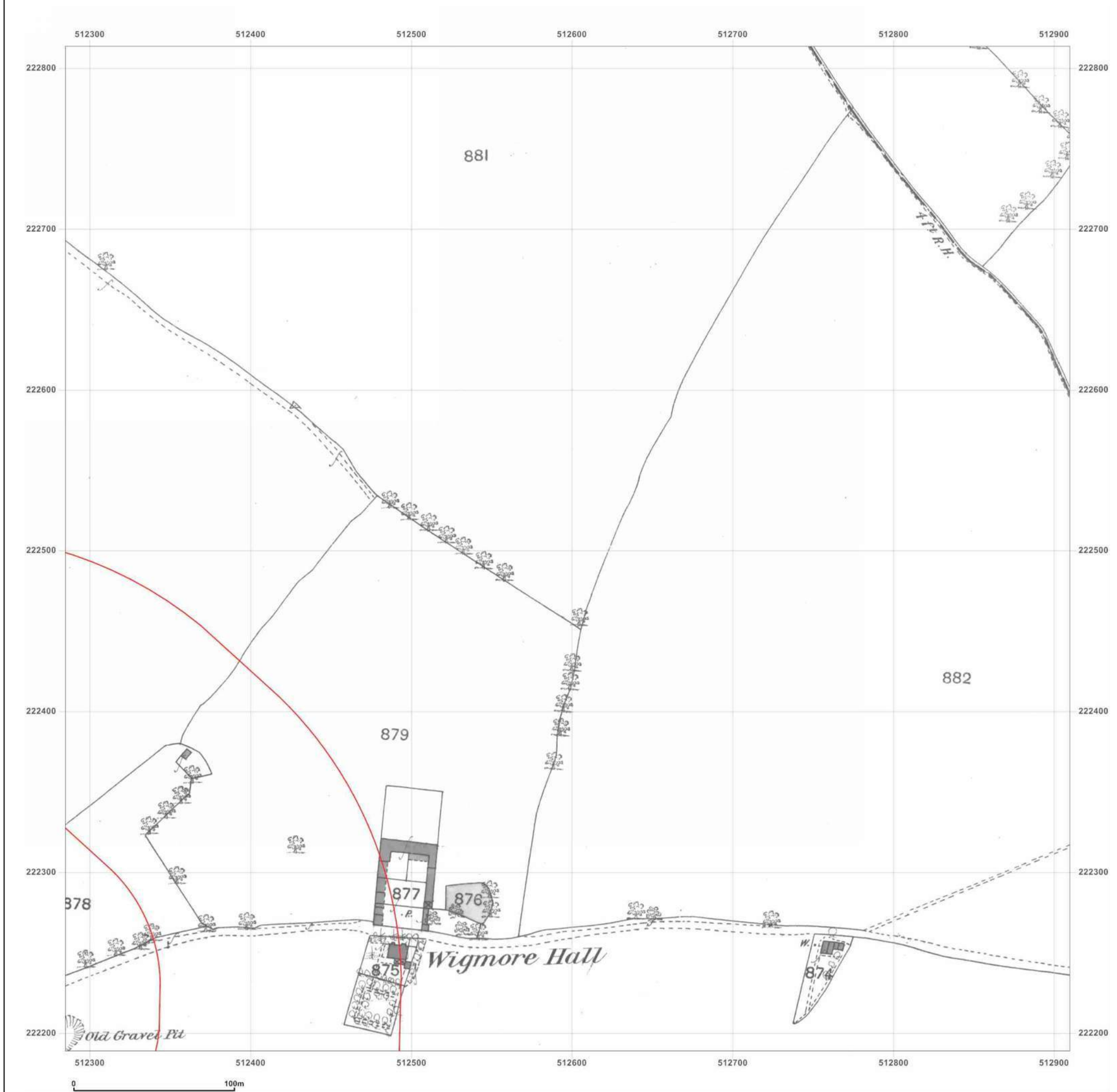

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_5
Grid Ref: 512597, 222501

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
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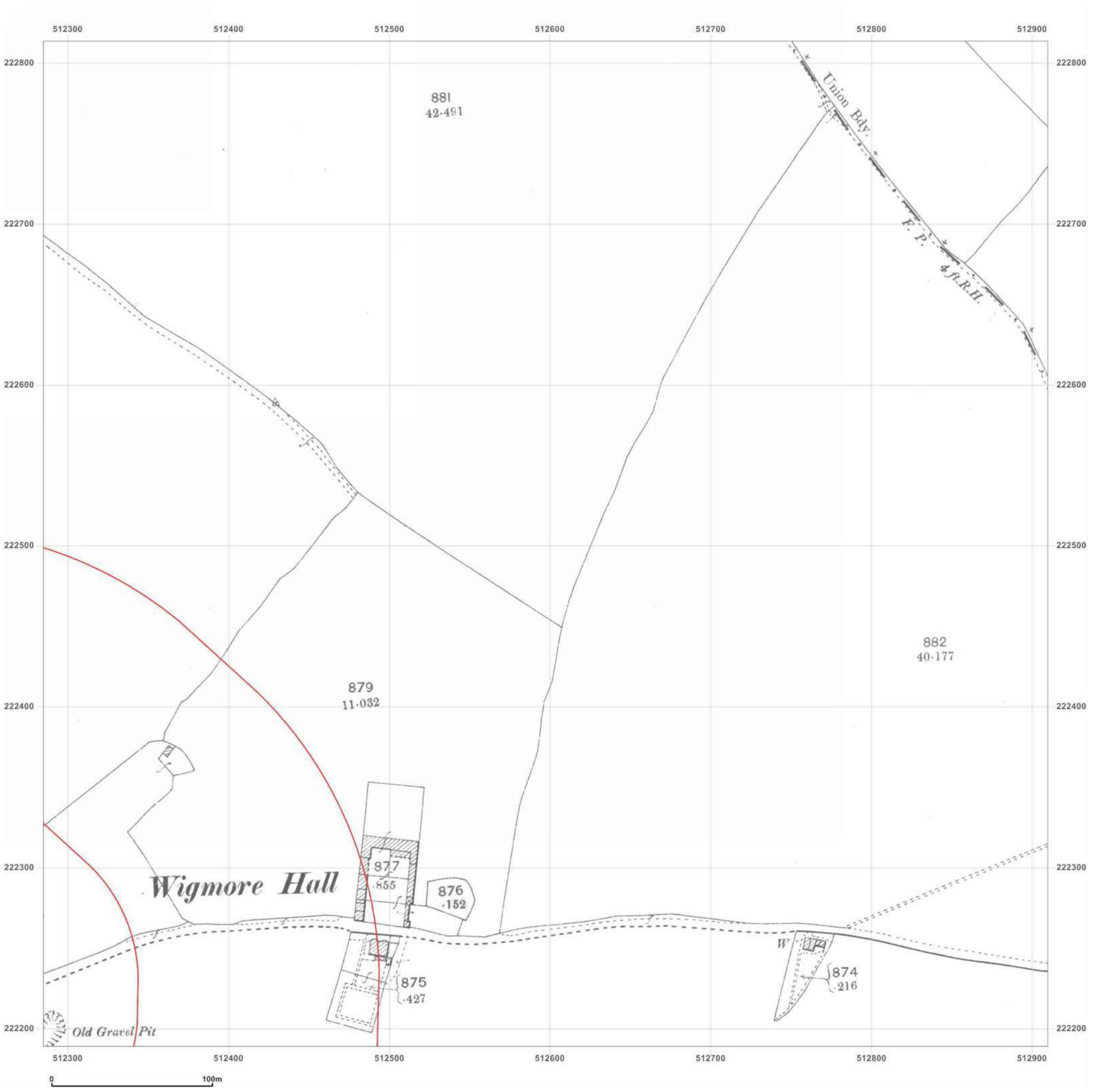

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_5
Grid Ref: 512597, 222501

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
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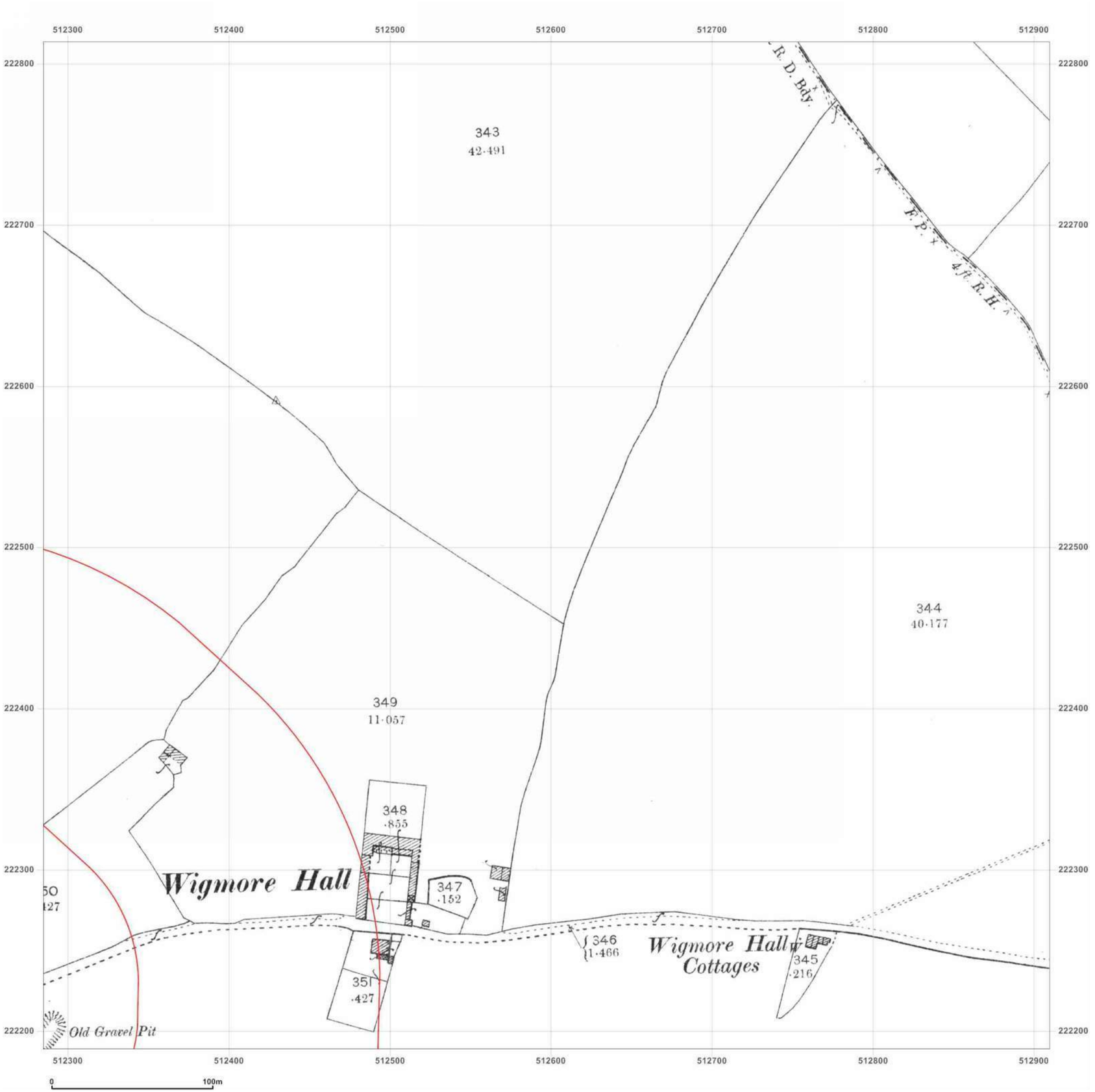

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_5
Grid Ref: 512597, 222501

Map Name: County Series
Map date: **1901**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
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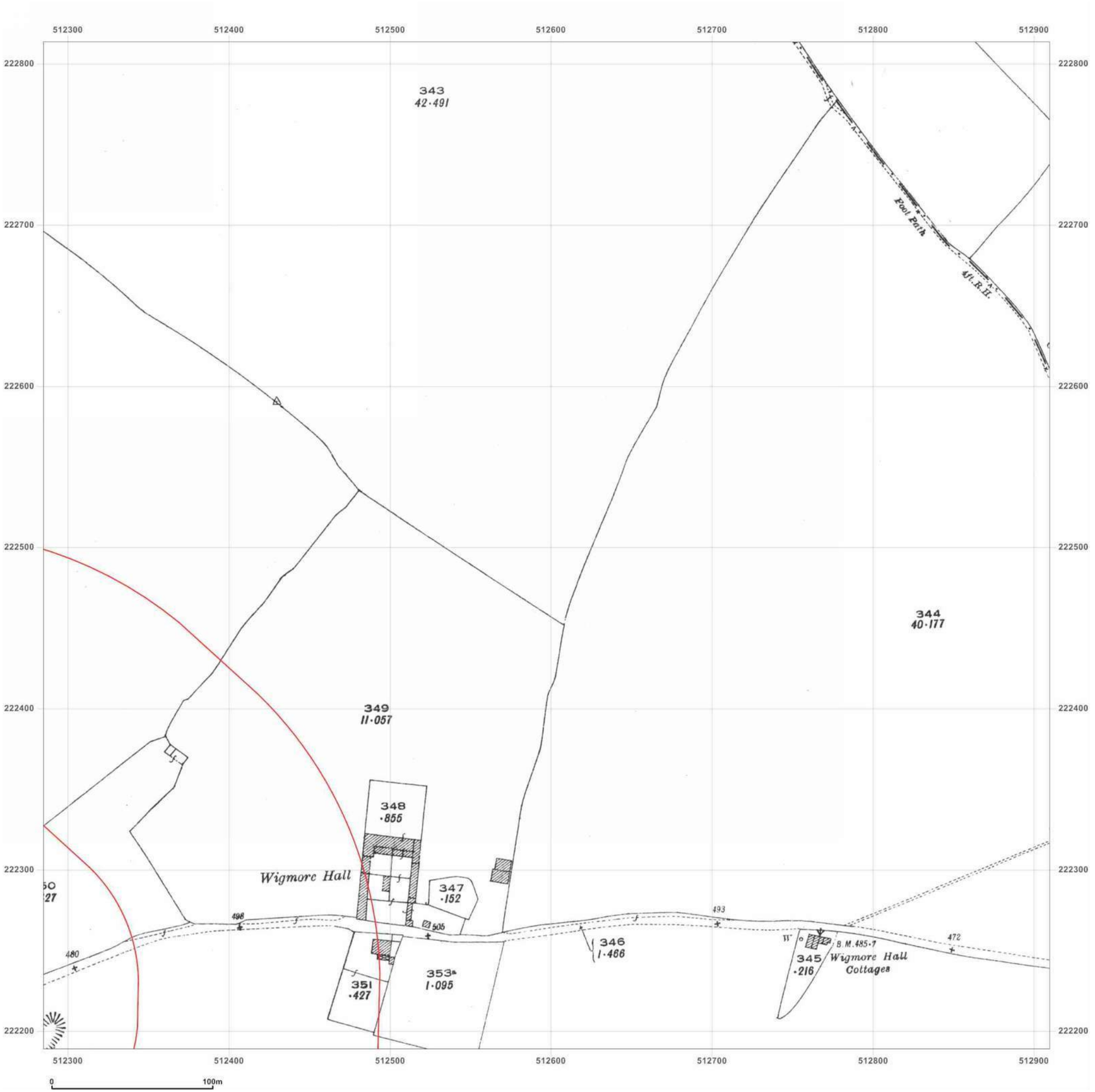

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_5
Grid Ref: 512597, 222501

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
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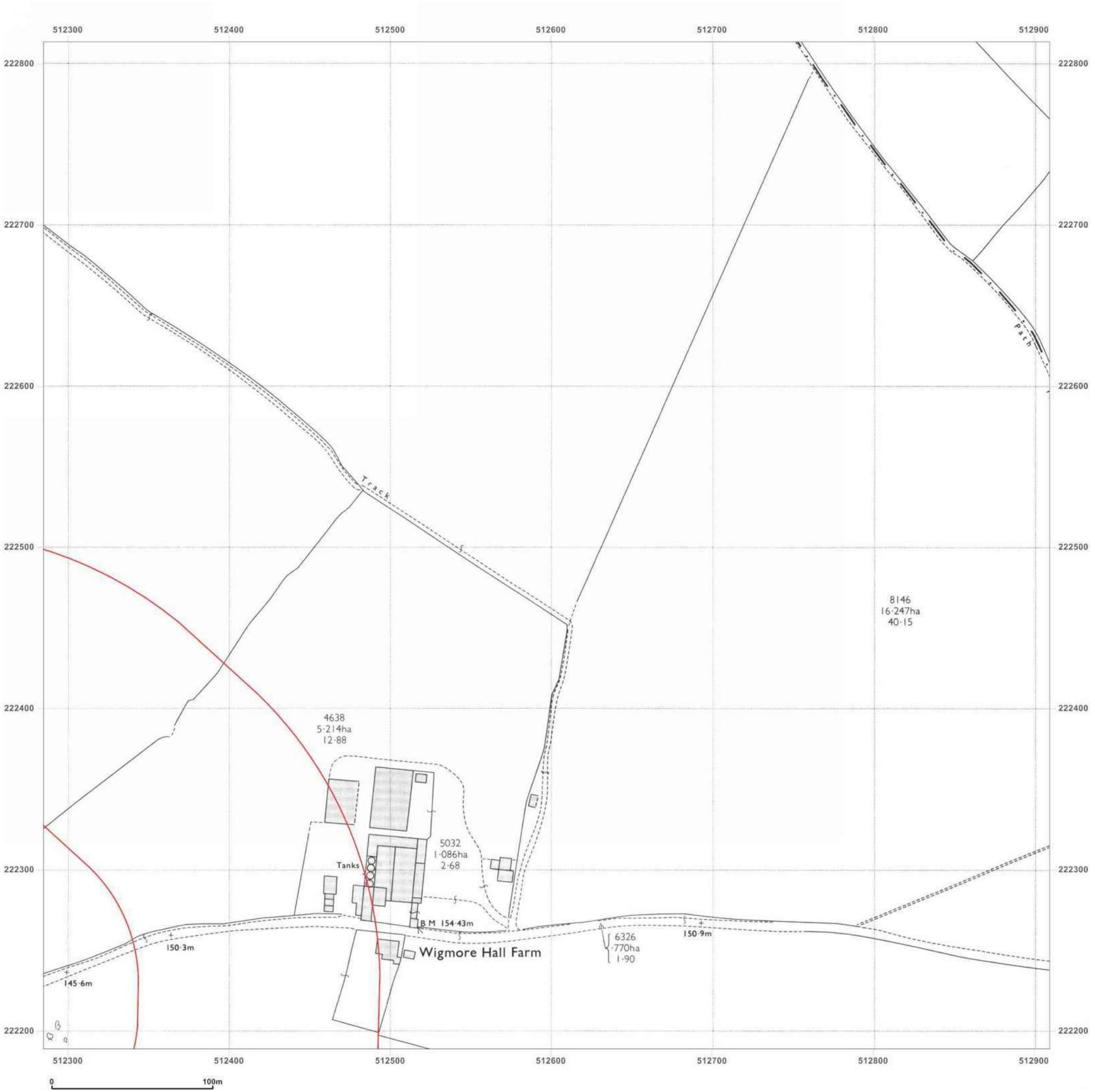

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_4_5
Grid Ref: 512597, 222501

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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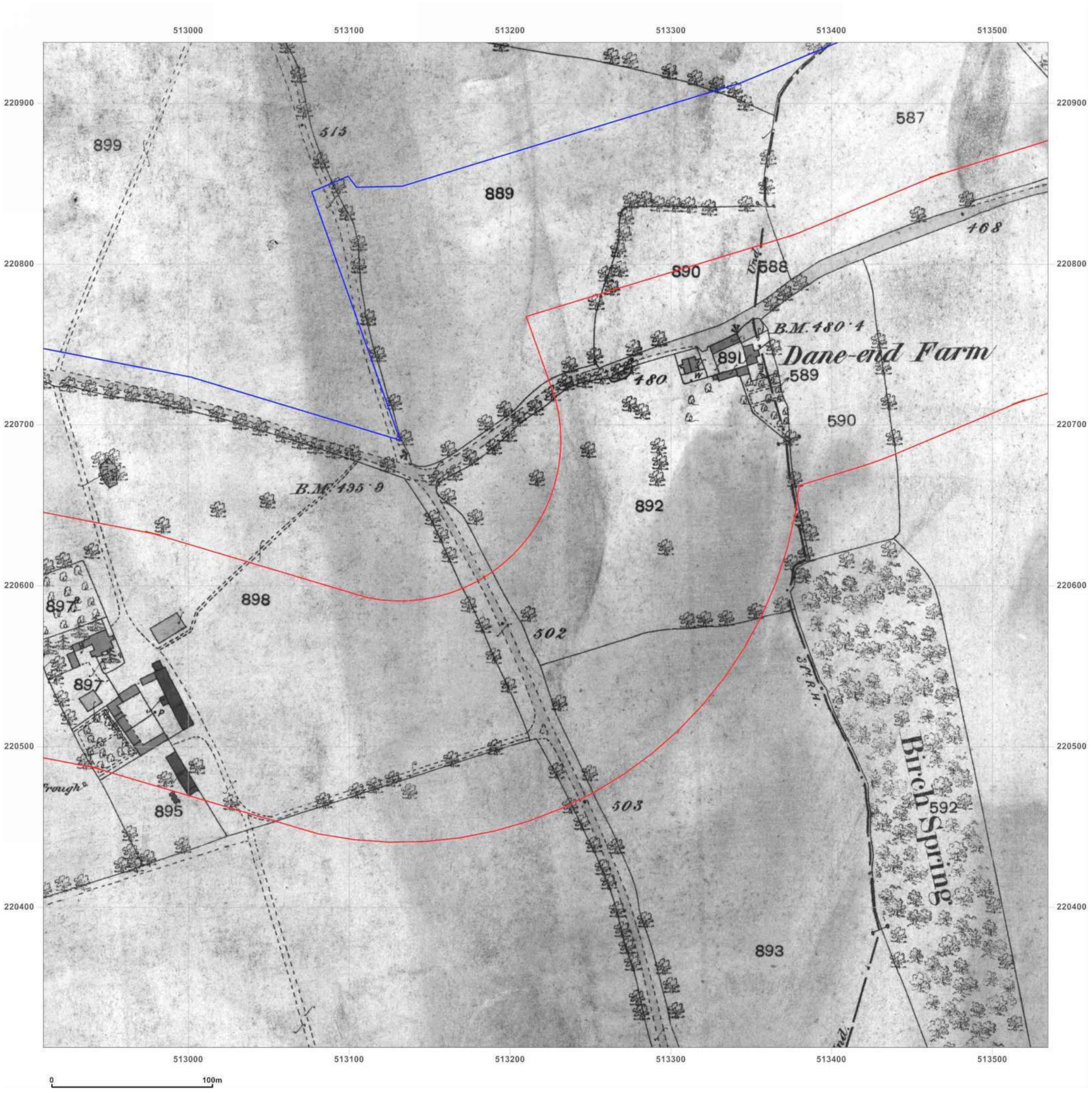

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_2
Grid Ref: 513222, 220625

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
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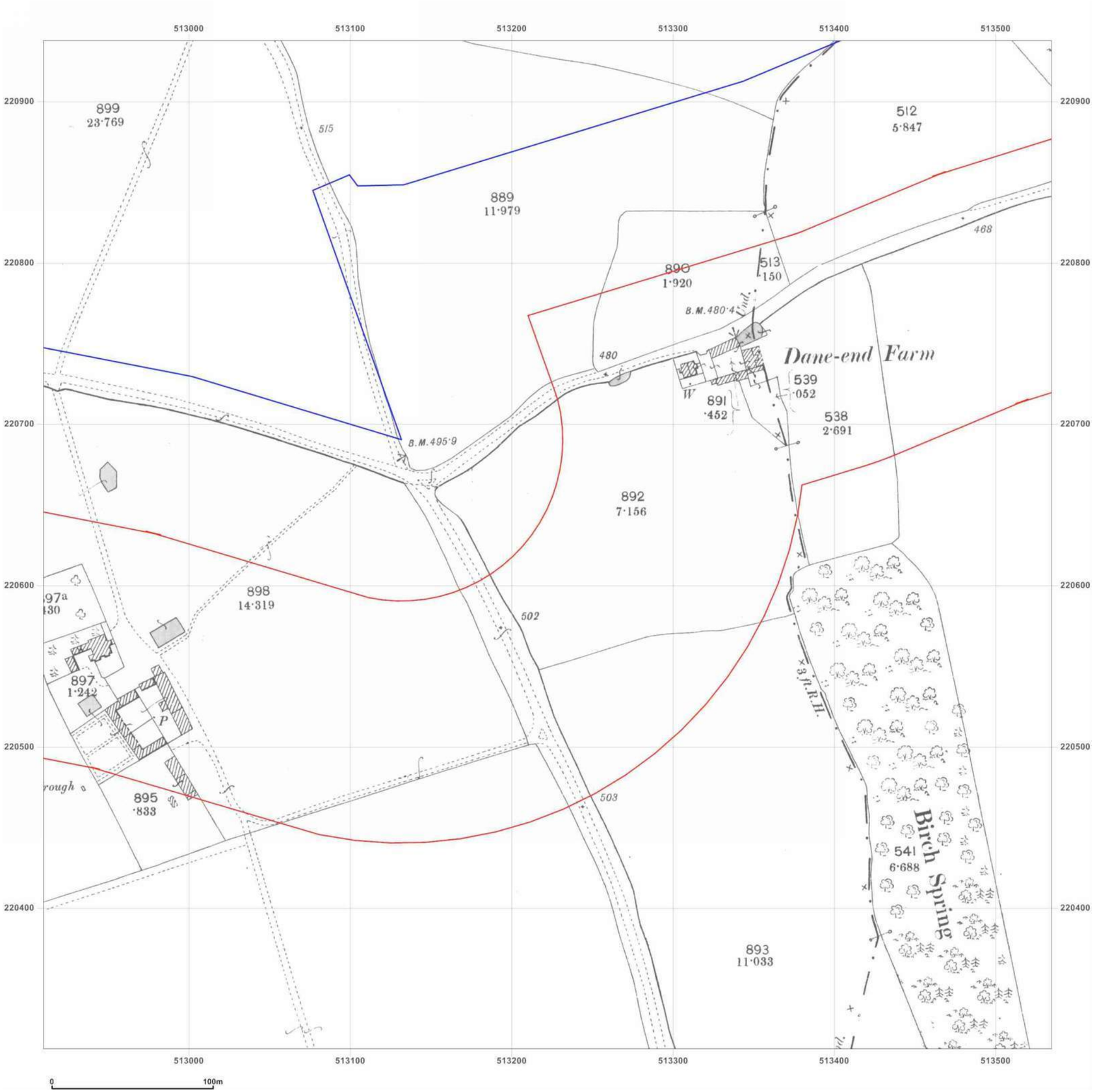

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_2
Grid Ref: 513222, 220625

Map Name: County Series
Map date: **1898**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
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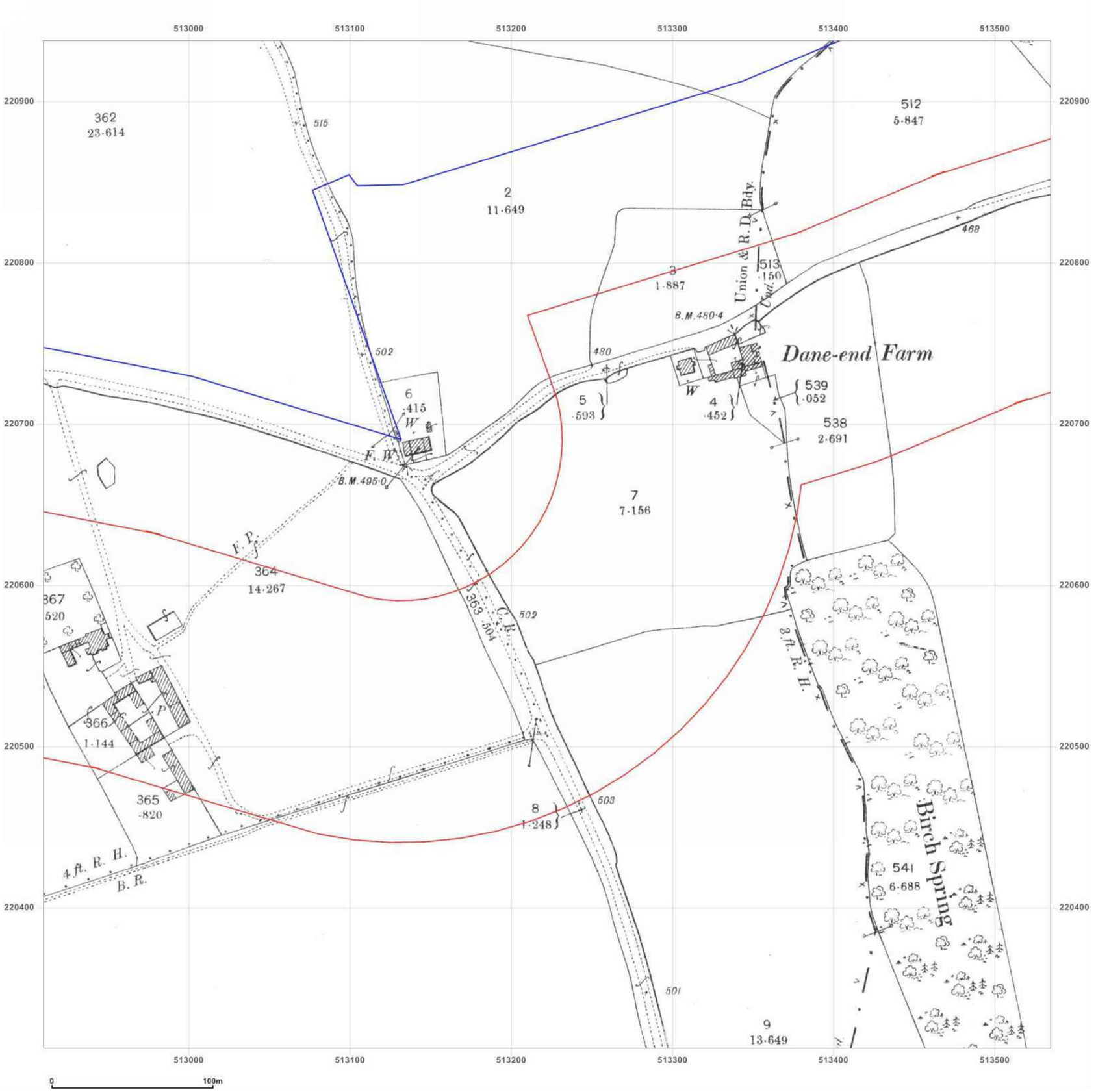


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_2
Grid Ref: 513222, 220625

Map Name: County Series

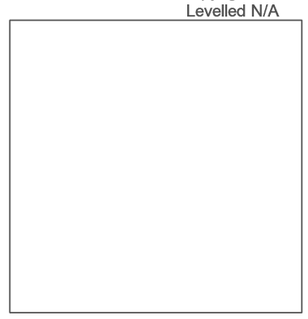
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



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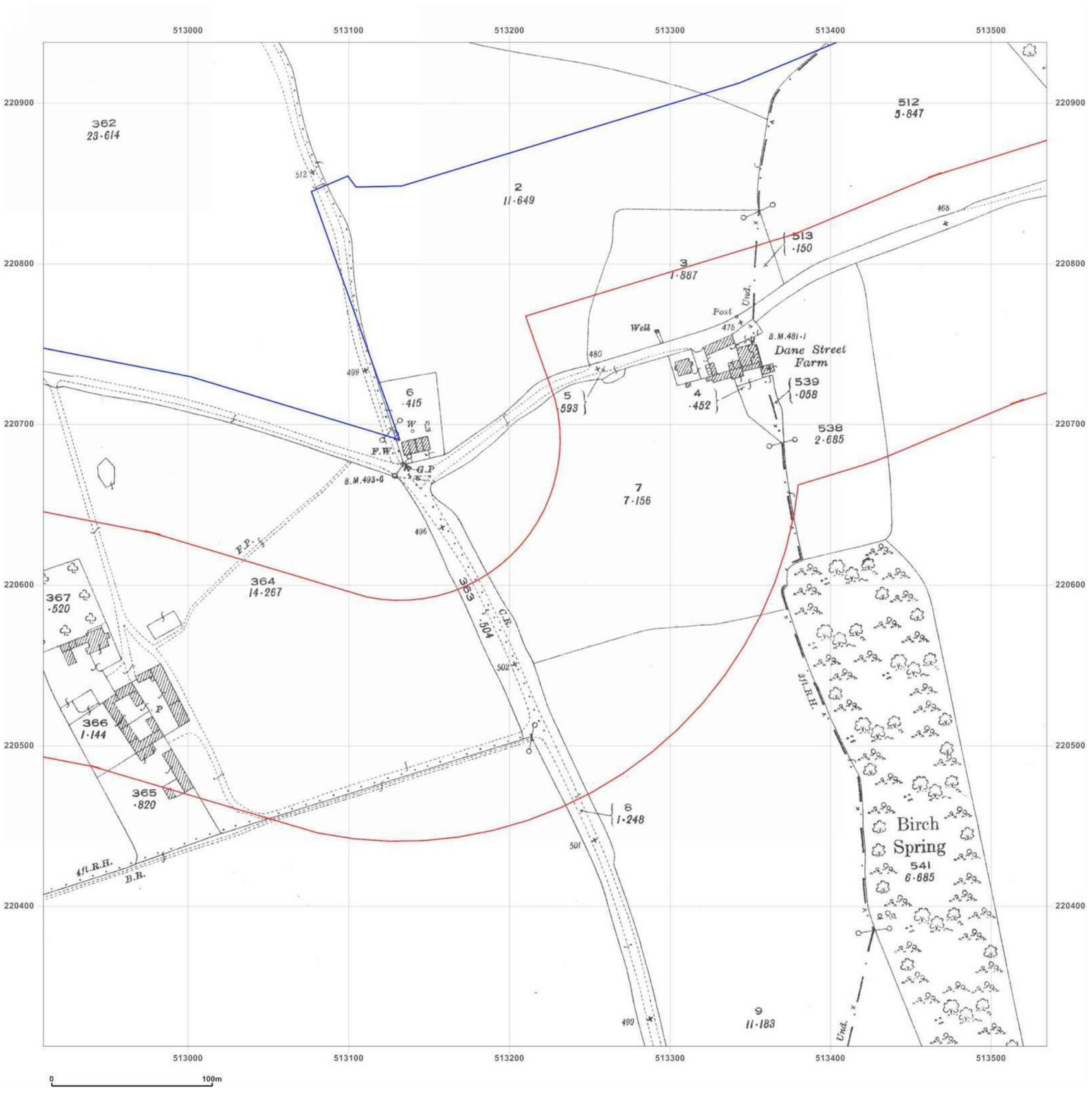

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_2
Grid Ref: 513222, 220625

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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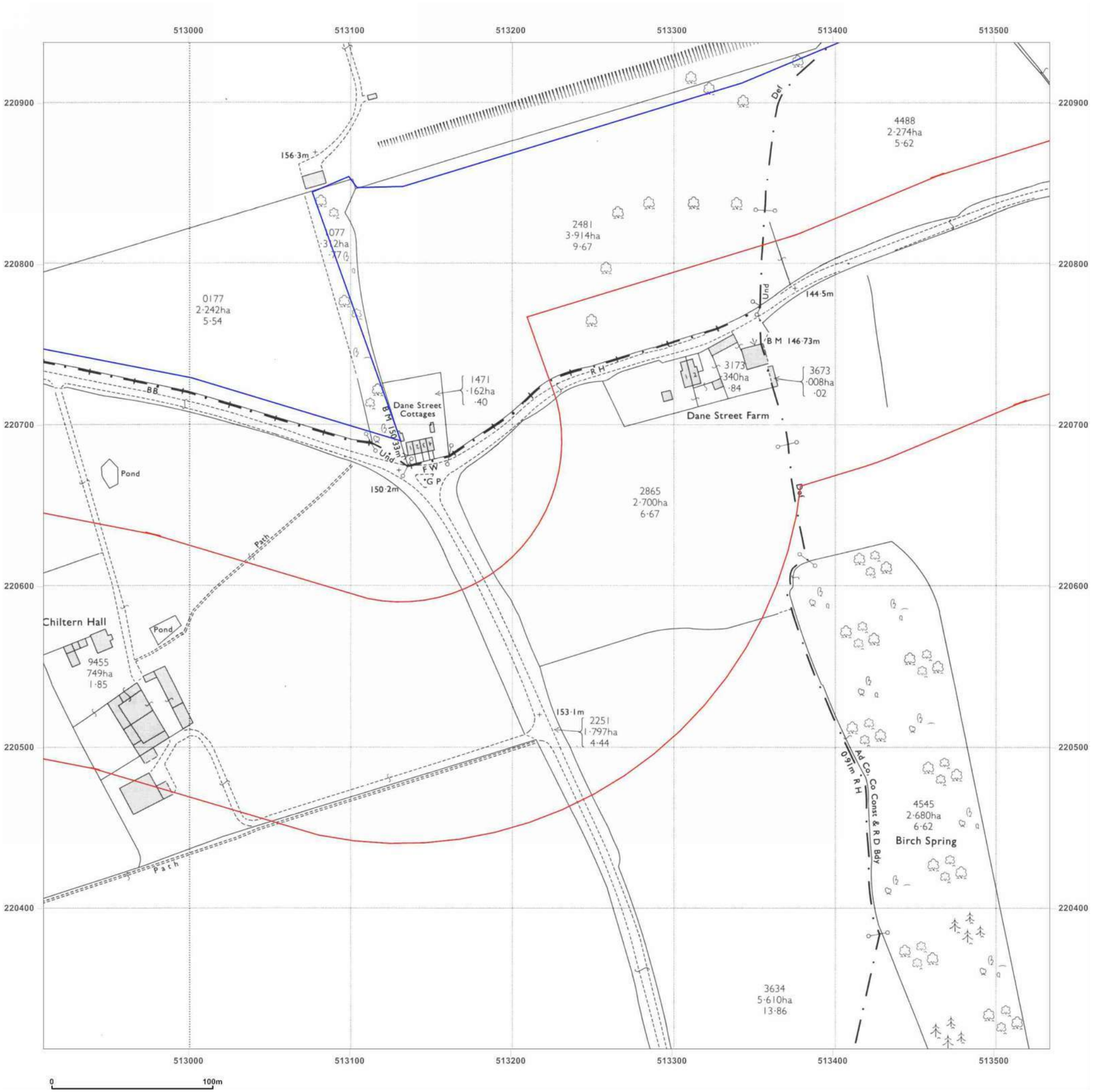

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_2
Grid Ref: 513222, 220625

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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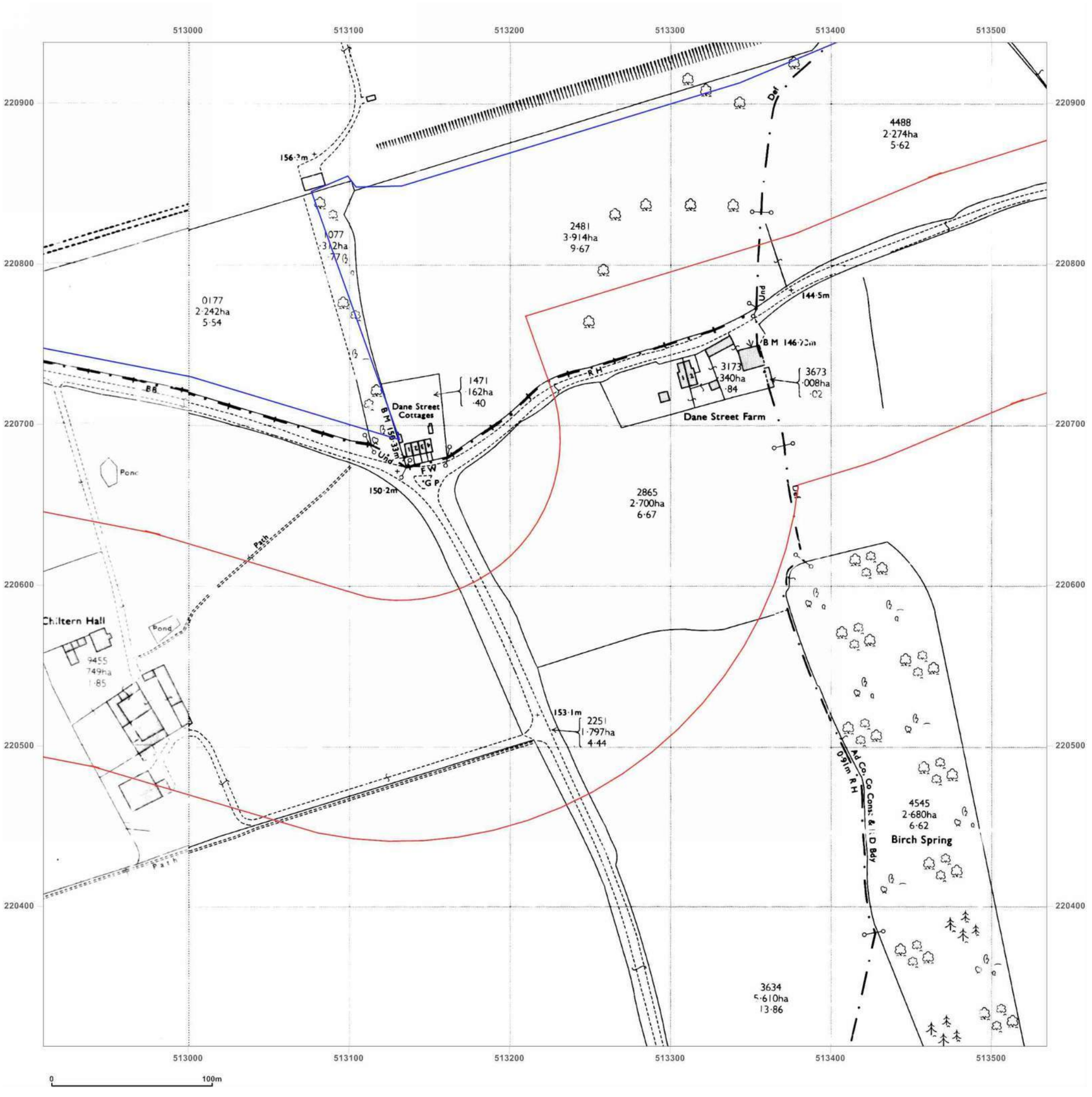

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_2
Grid Ref: 513222, 220625

Map Name: National Grid

Map date: **1972-1973**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

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Revised N/A
Edition N/A
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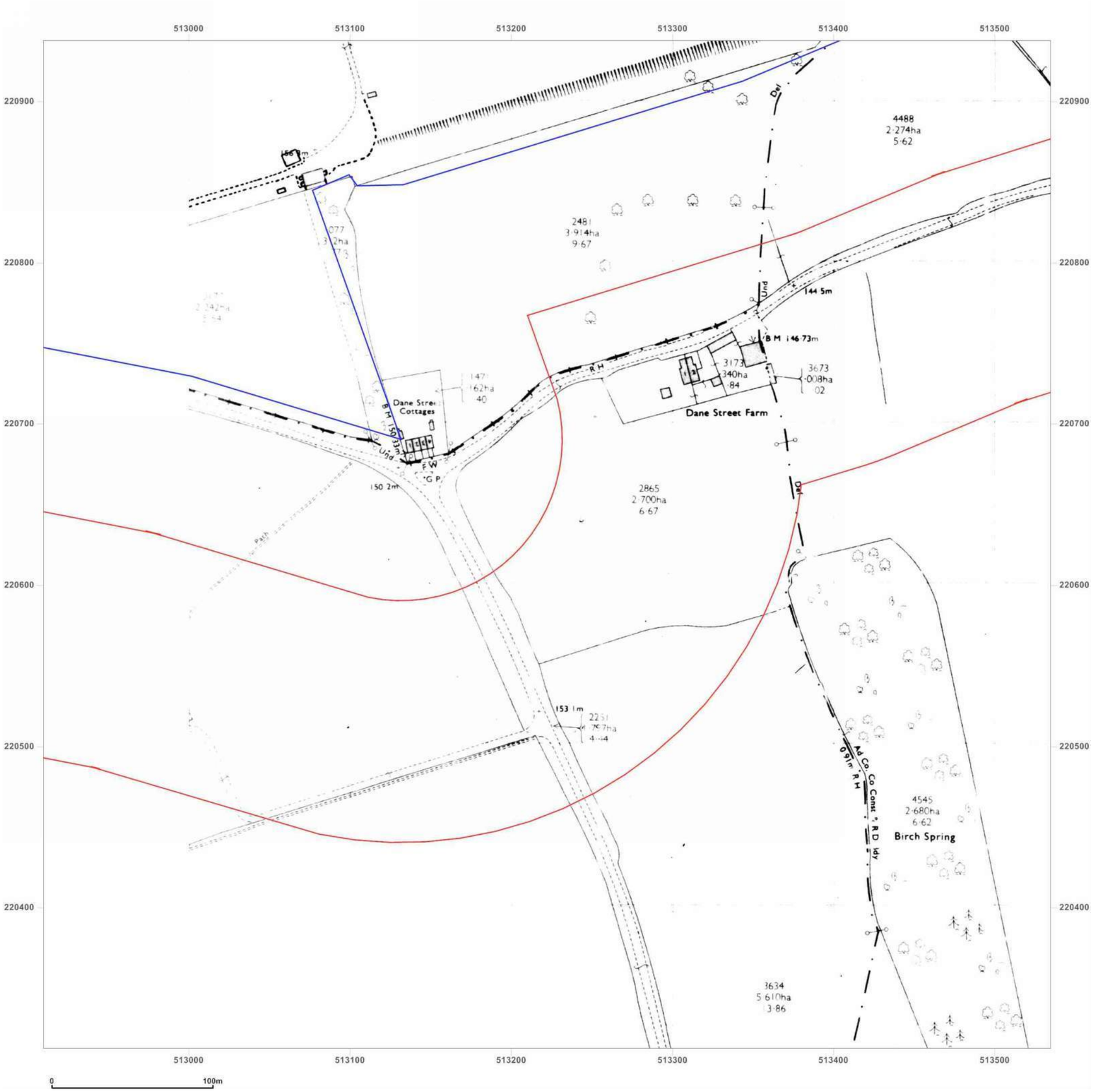

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_2
Grid Ref: 513222, 220625

Map Name: National Grid

Map date: **1973**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
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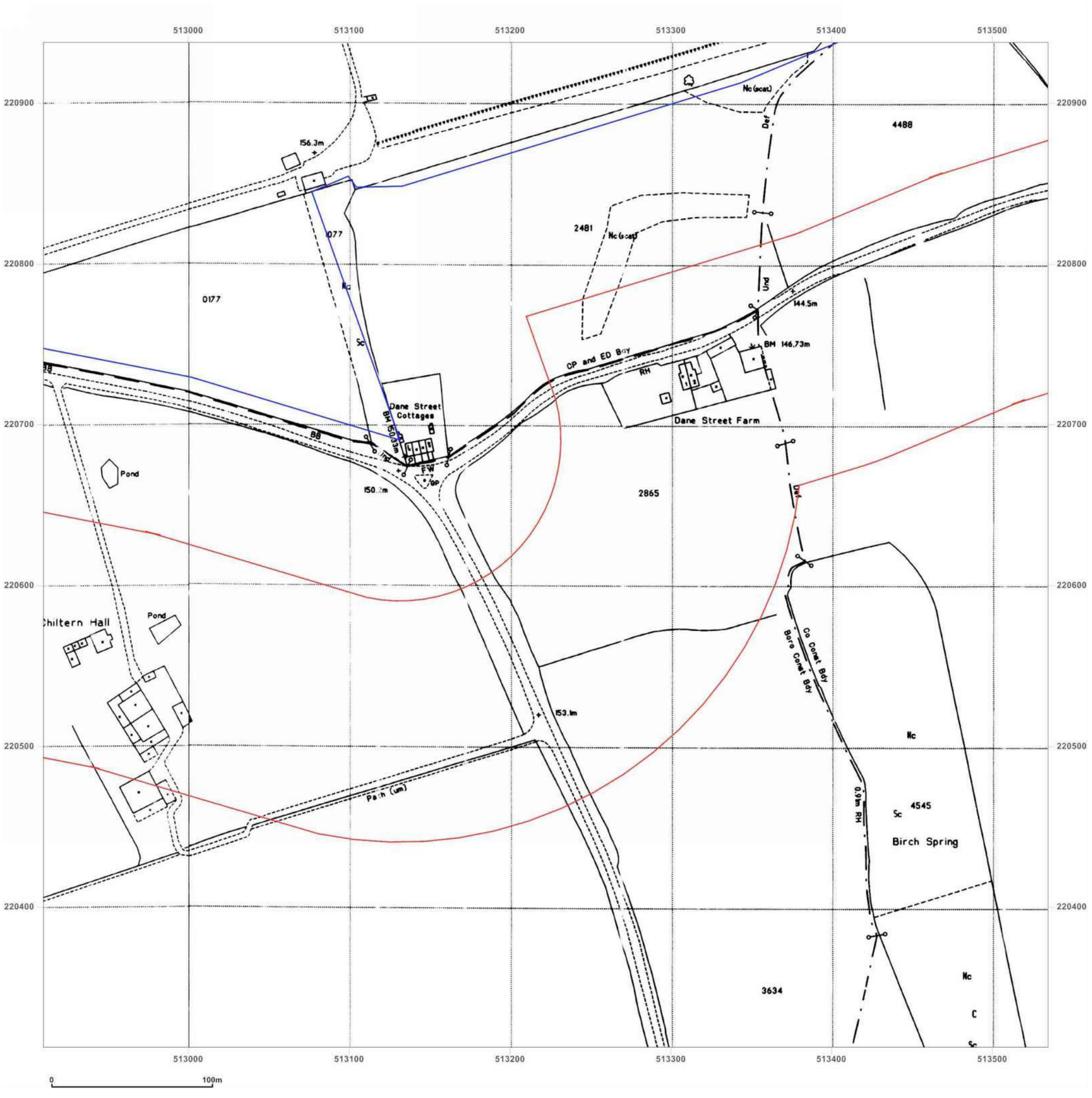

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_2
Grid Ref: 513222, 220625

Map Name: National Grid
Map date: **1992-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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

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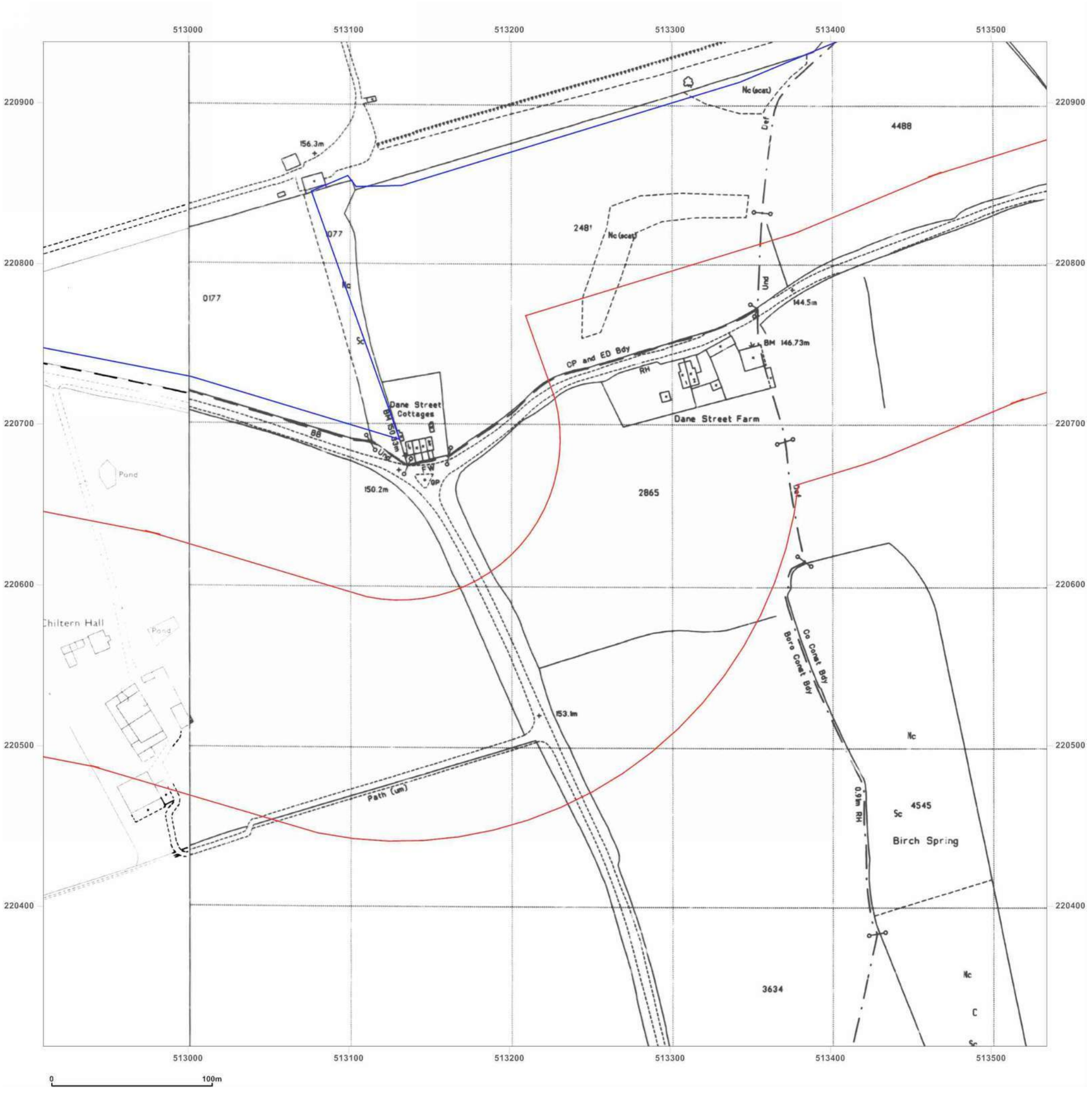

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_2
Grid Ref: 513222, 220625

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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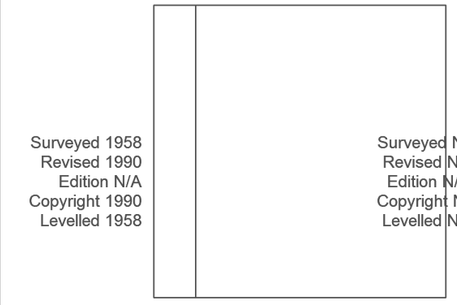

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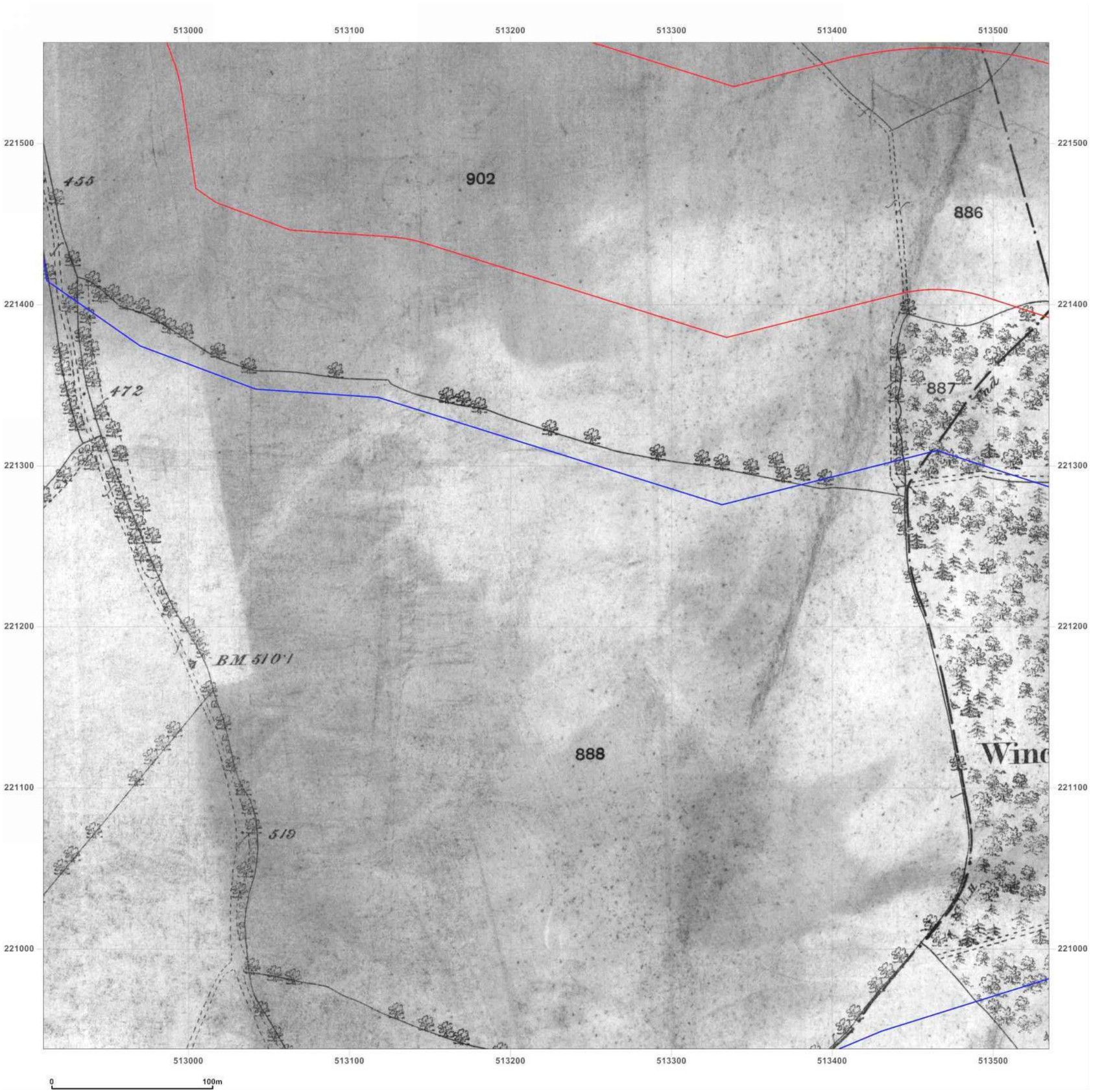

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_3
Grid Ref: 513222, 221250

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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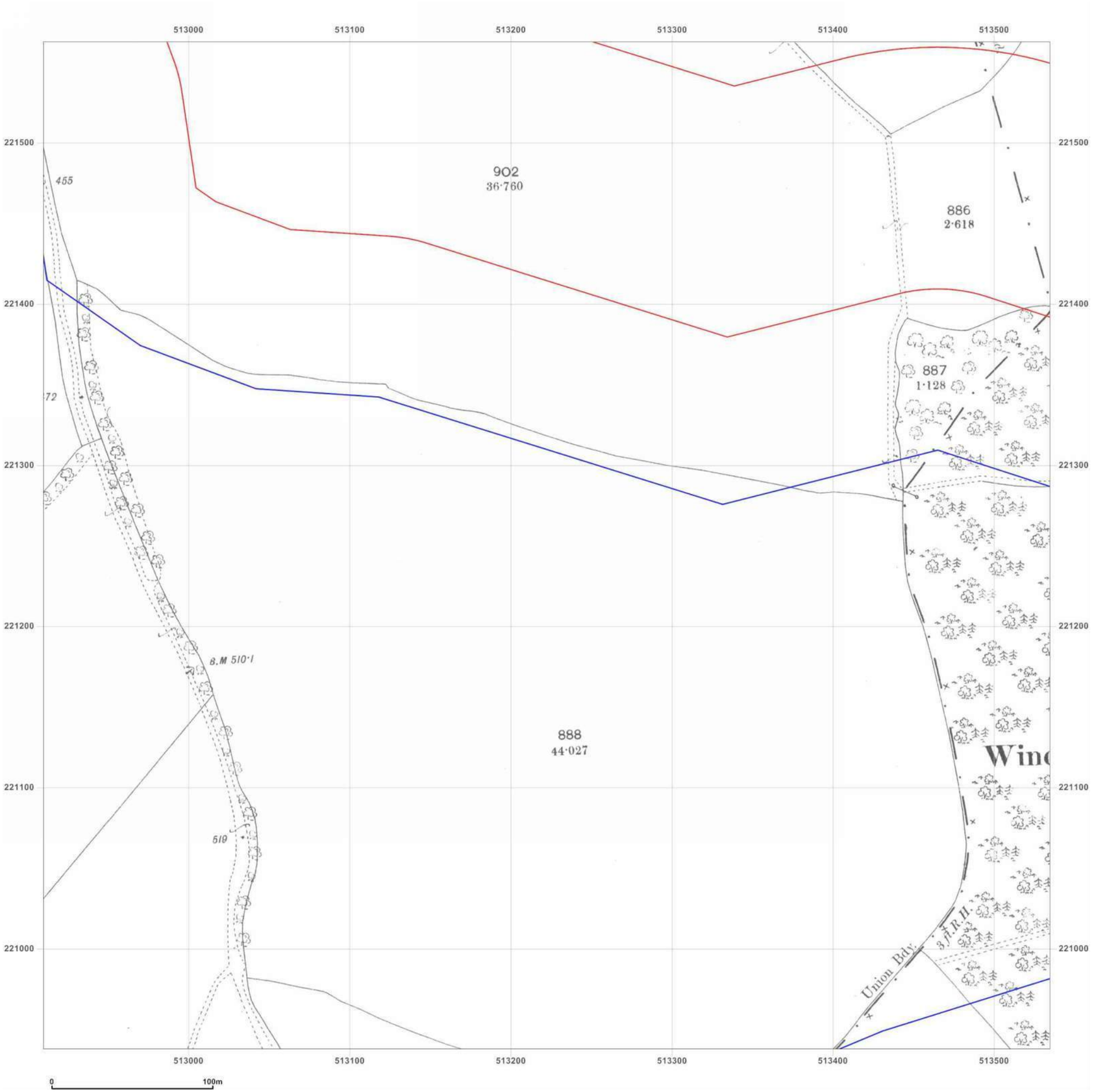

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_3
Grid Ref: 513222, 221250

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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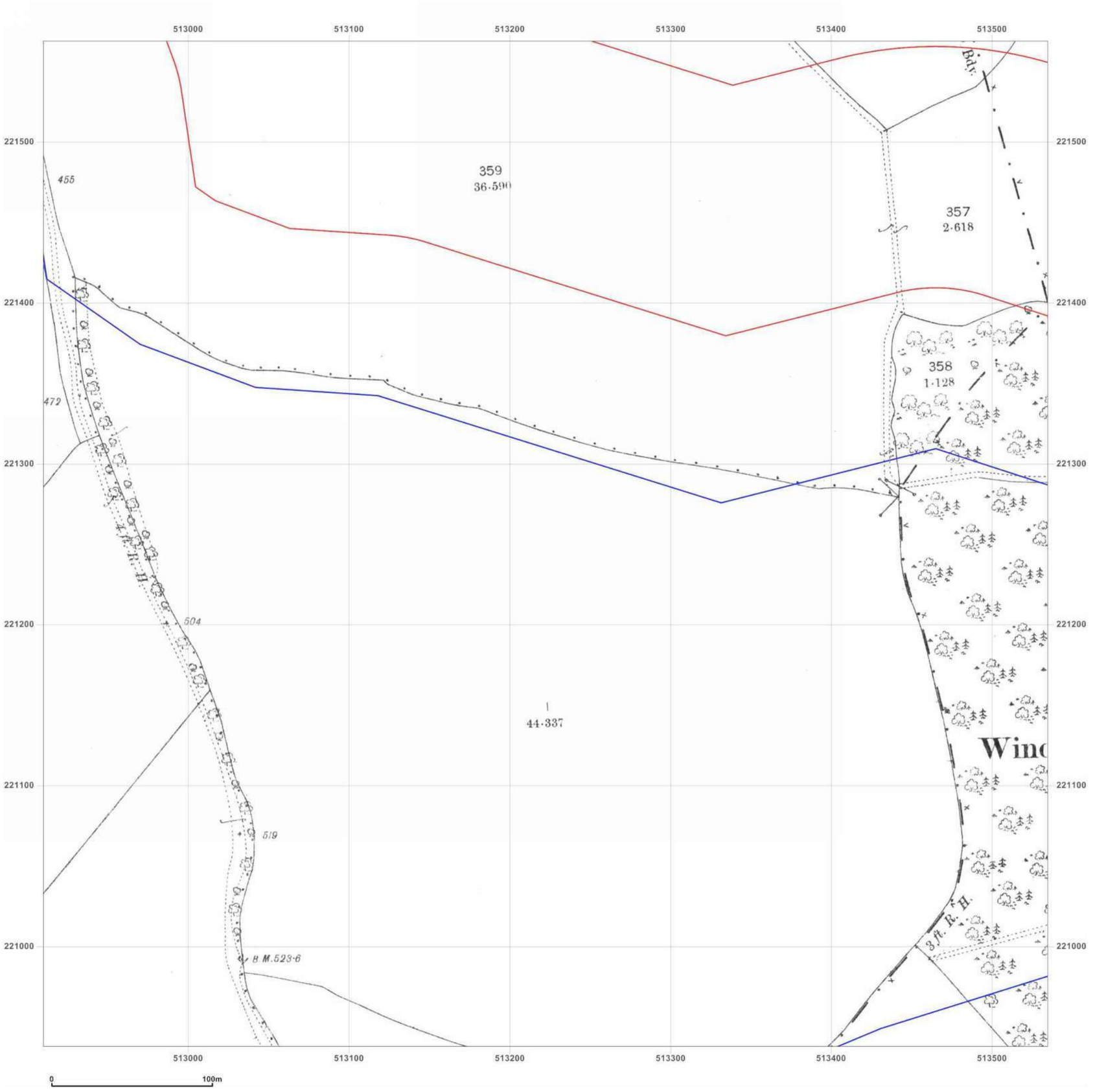

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_3
Grid Ref: 513222, 221250

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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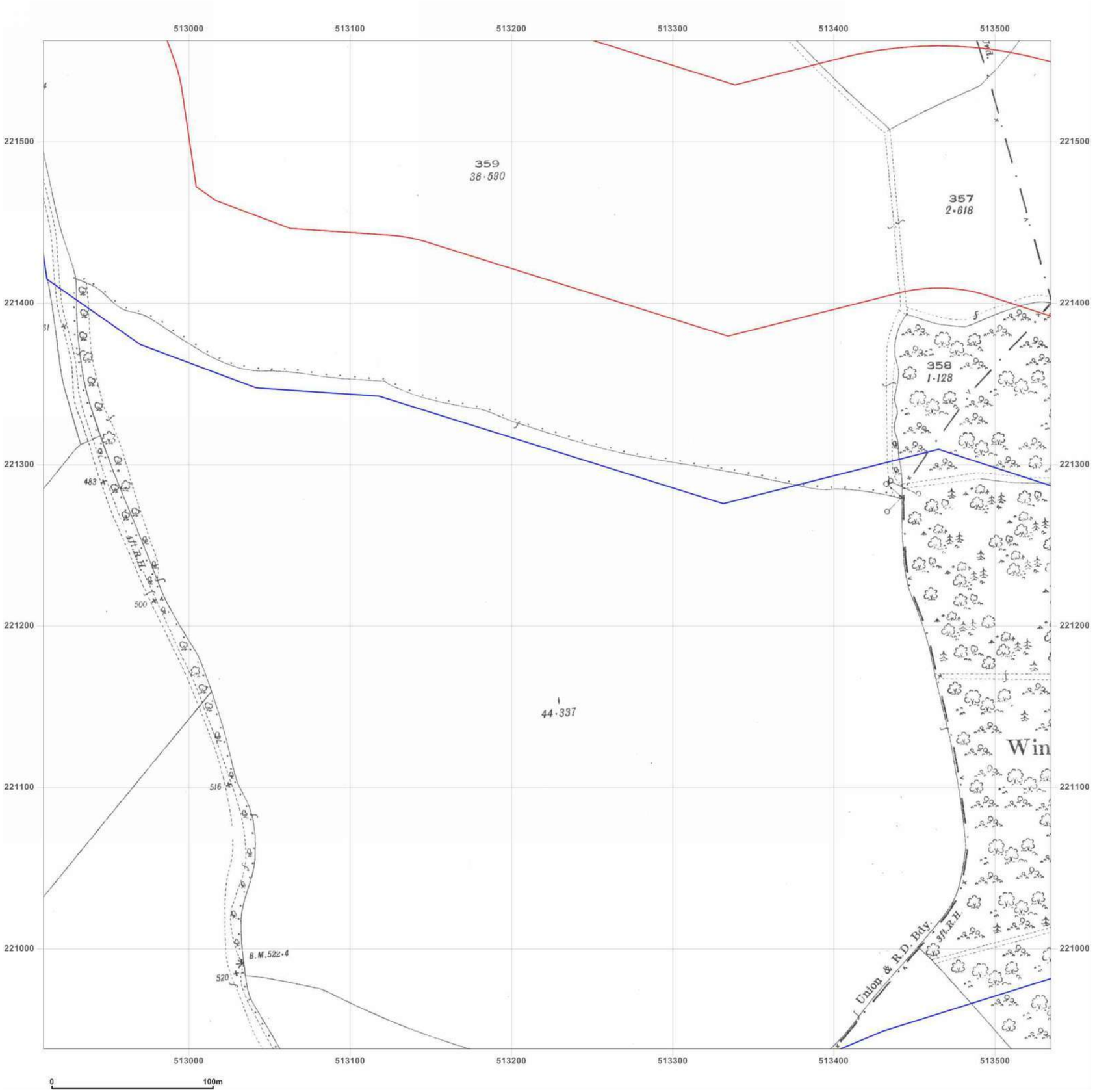

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_3
Grid Ref: 513222, 221250

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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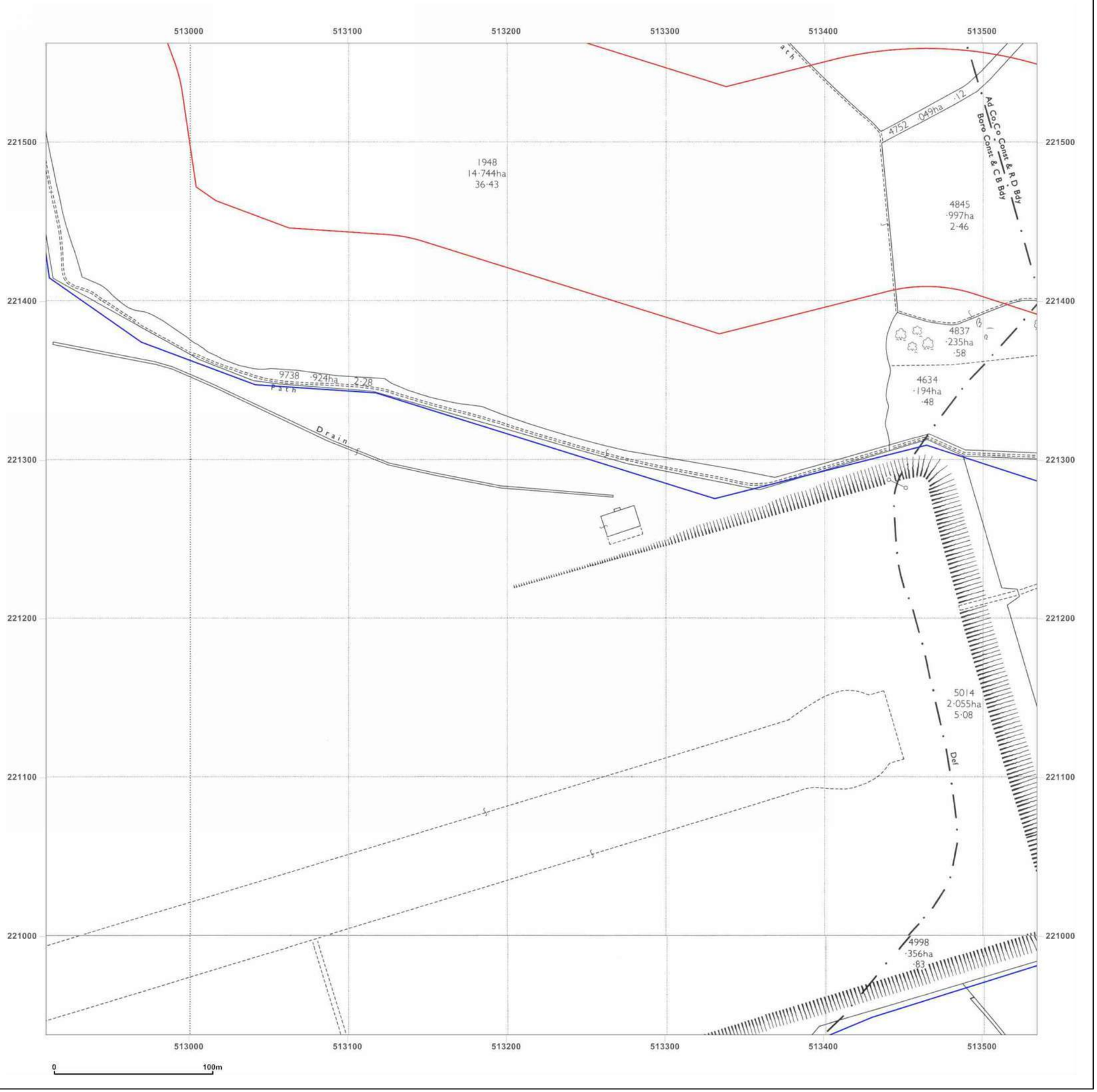

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_3
Grid Ref: 513222, 221250

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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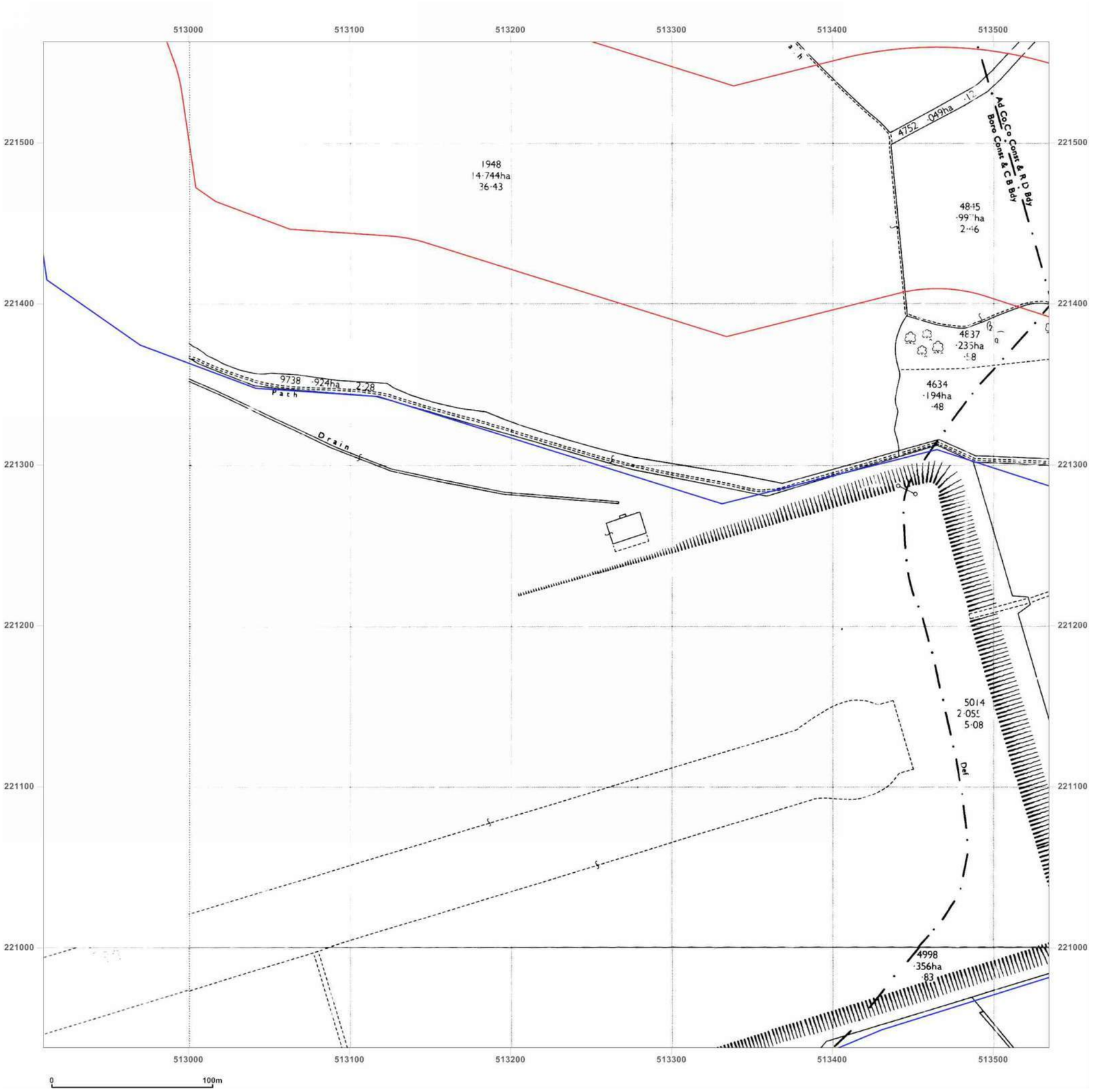

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_3
Grid Ref: 513222, 221250

Map Name: National Grid

Map date: **1972-1973**

Scale: 1:2,500

Printed at: 1:2,500

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

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

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Revised N/A
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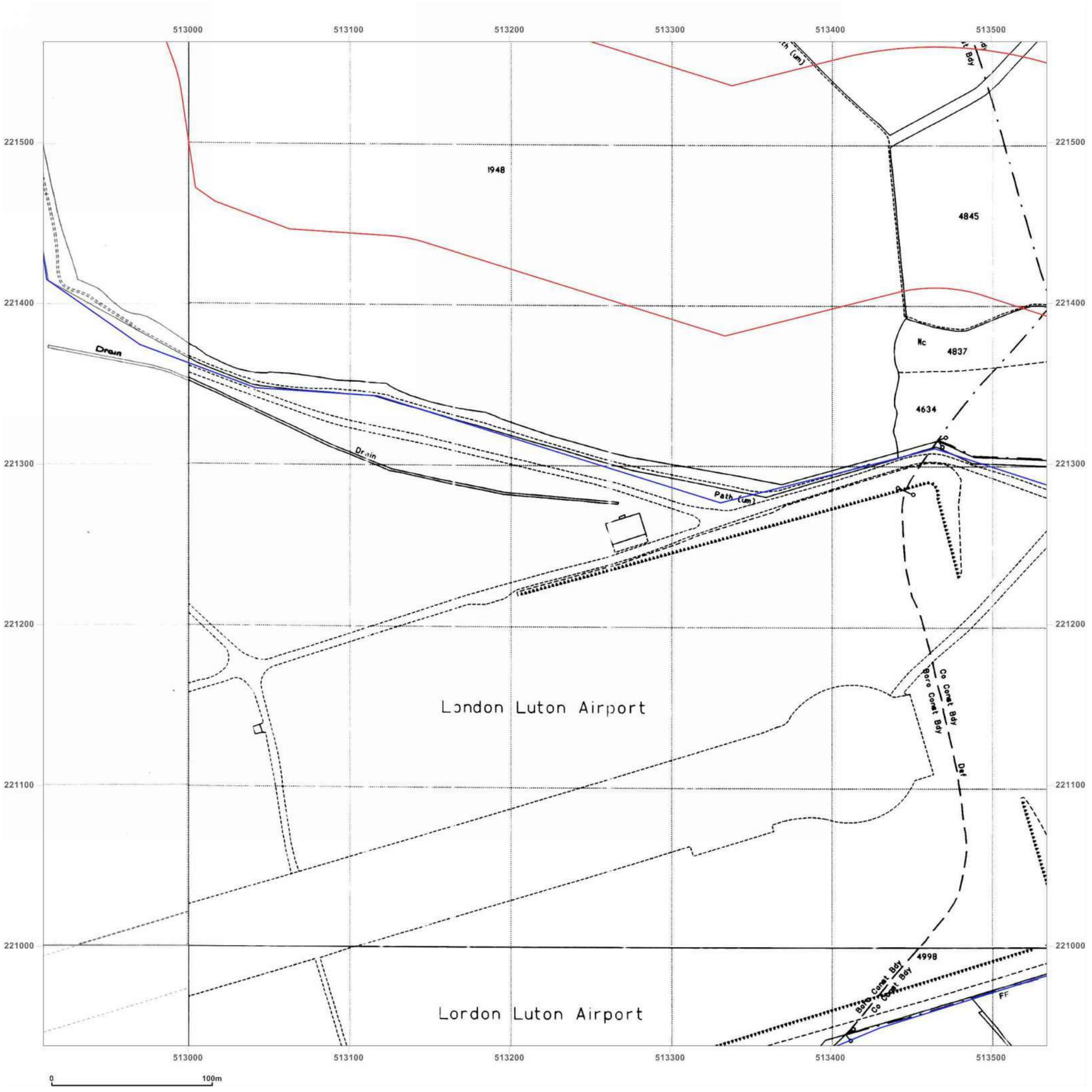

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_3
Grid Ref: 513222, 221250

Map Name: National Grid
Map date: **1990-1993**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

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Revised N/A
Edition N/A
Copyright 1992
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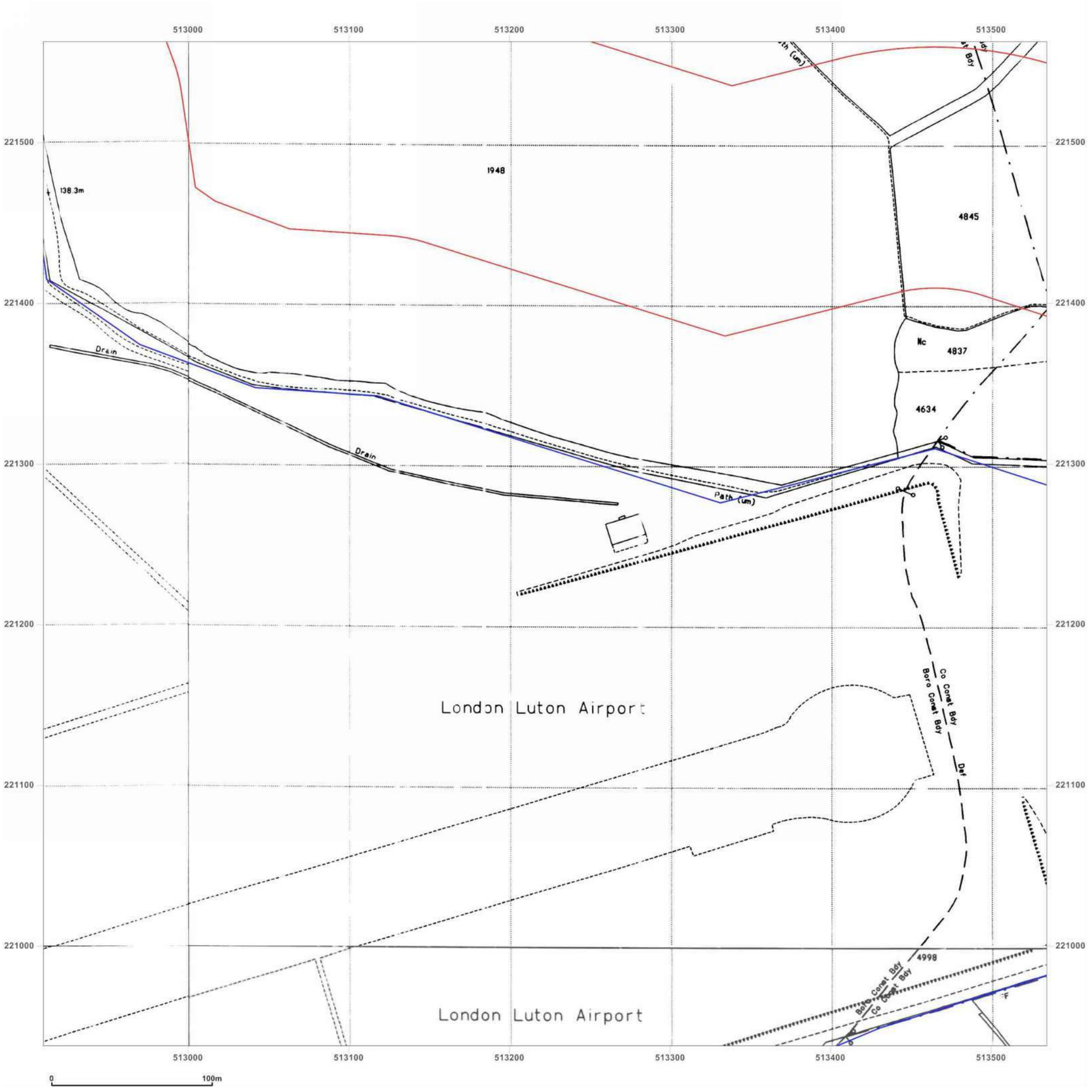

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_3
Grid Ref: 513222, 221250

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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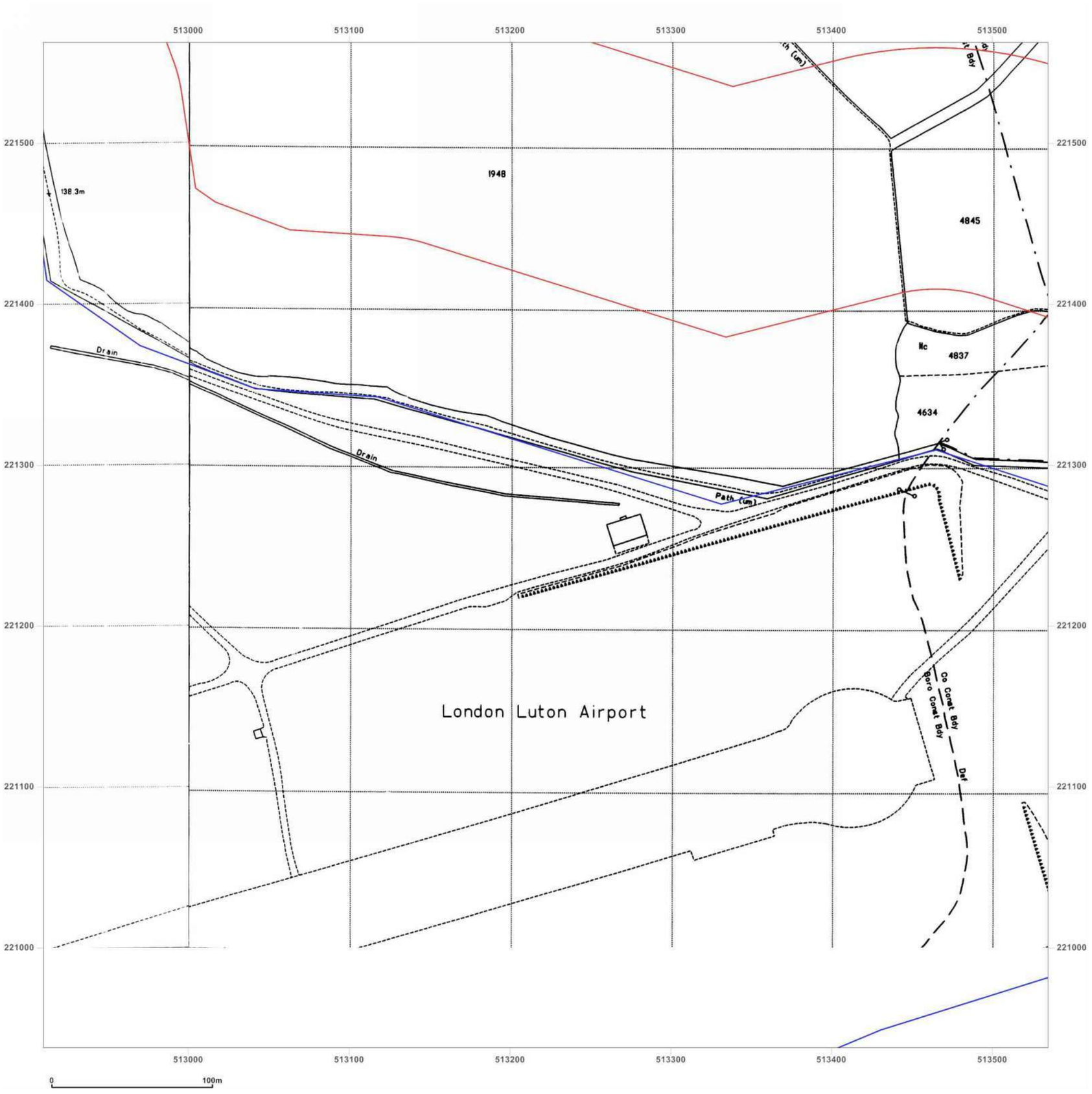

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_3
Grid Ref: 513222, 221250

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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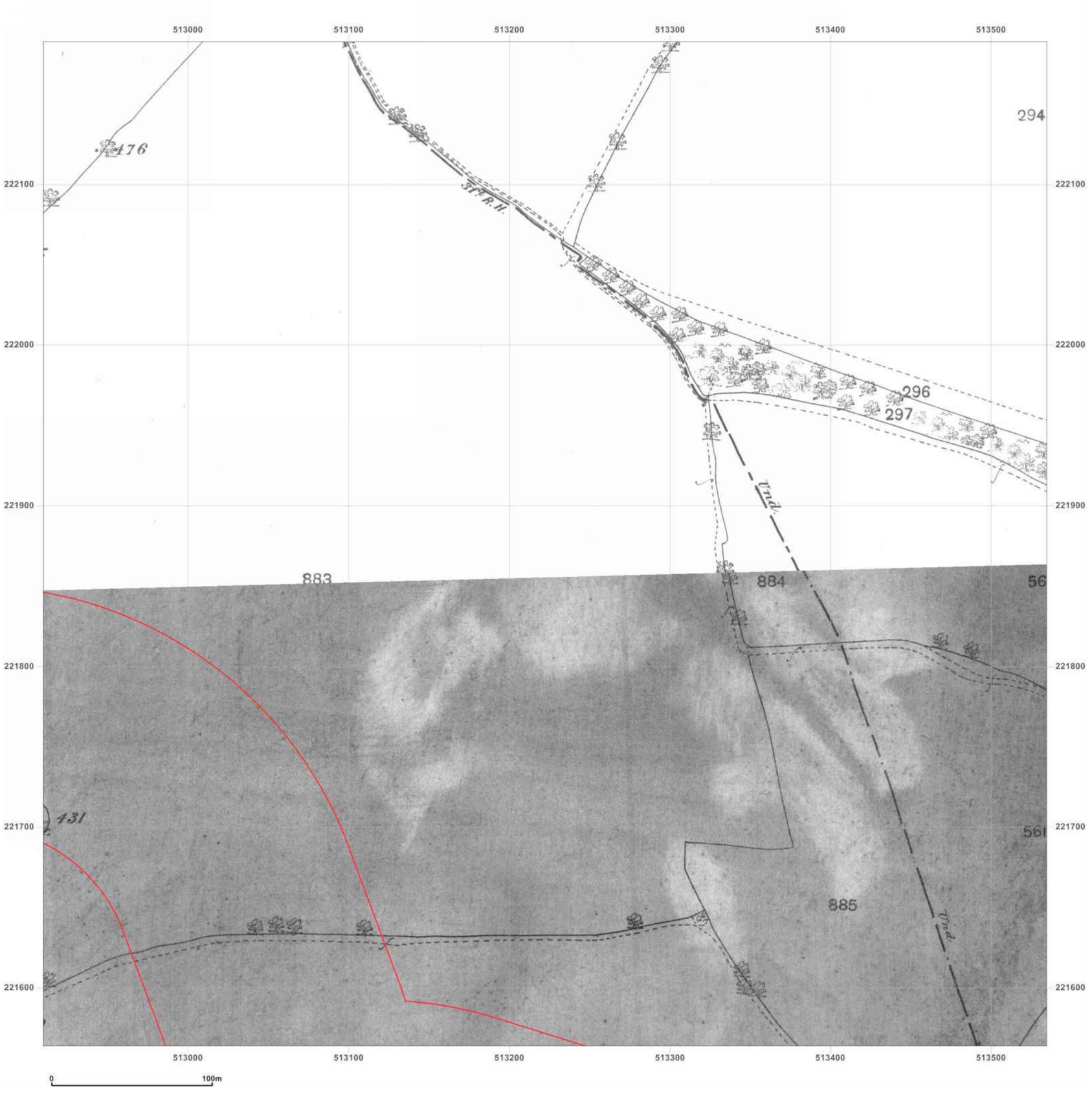

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_4
Grid Ref: 513222, 221876

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
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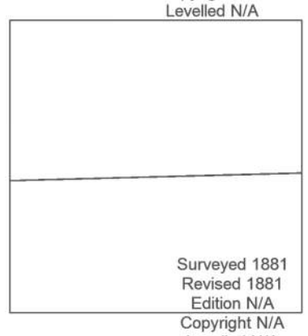
Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



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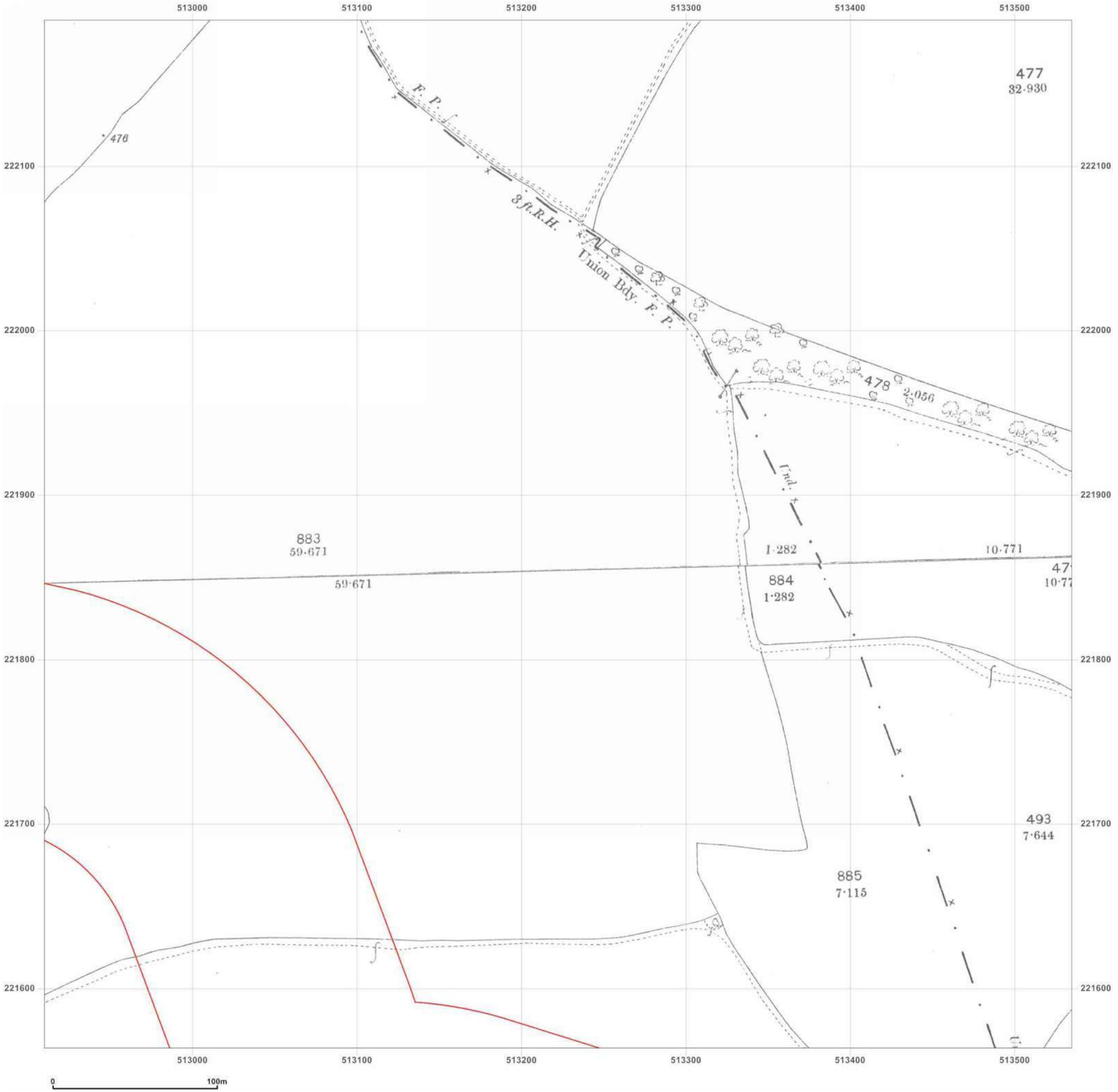

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_4
Grid Ref: 513222, 221876

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

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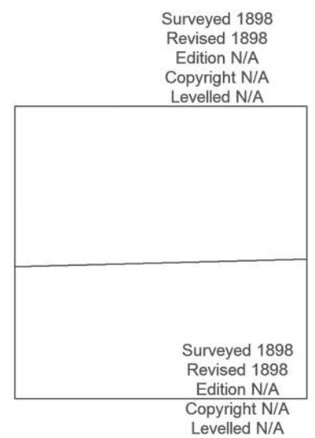

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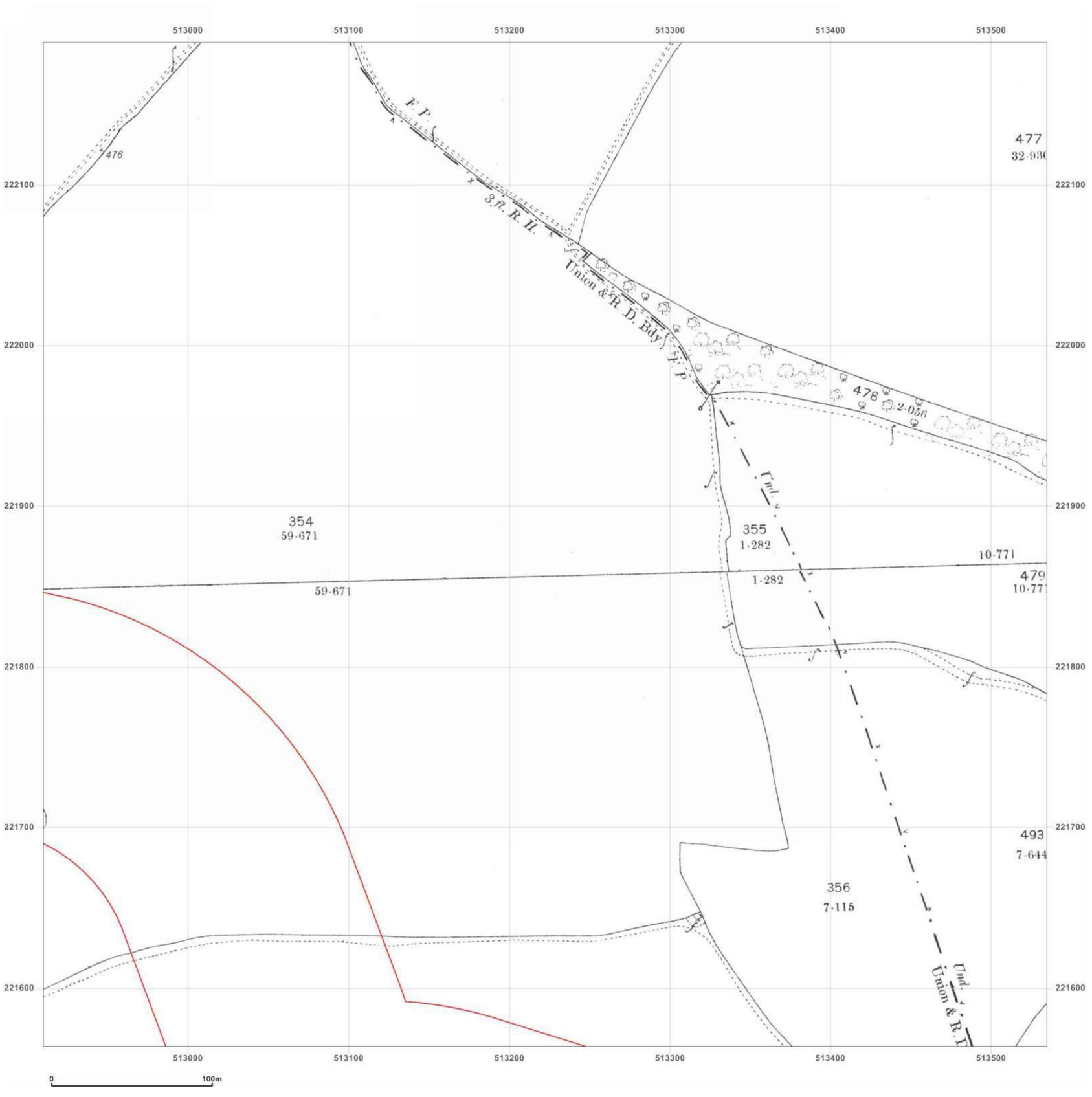

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_4
Grid Ref: 513222, 221876

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
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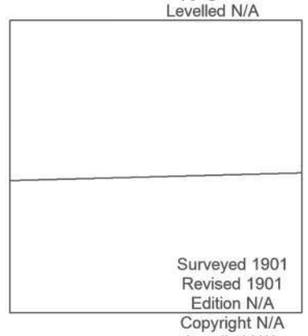
Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



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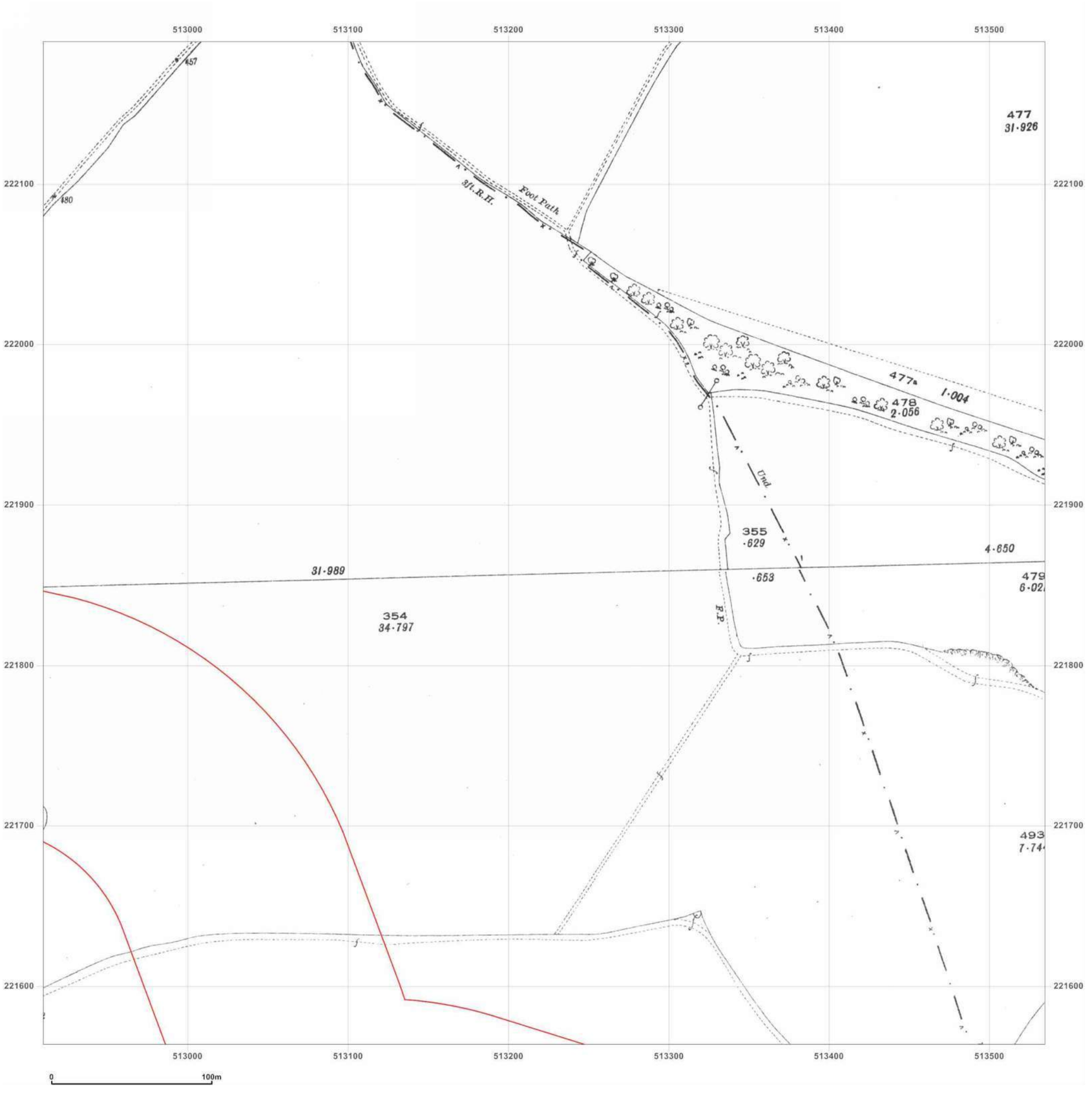

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_4
Grid Ref: 513222, 221876

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
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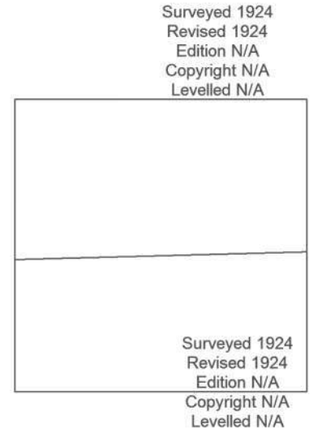

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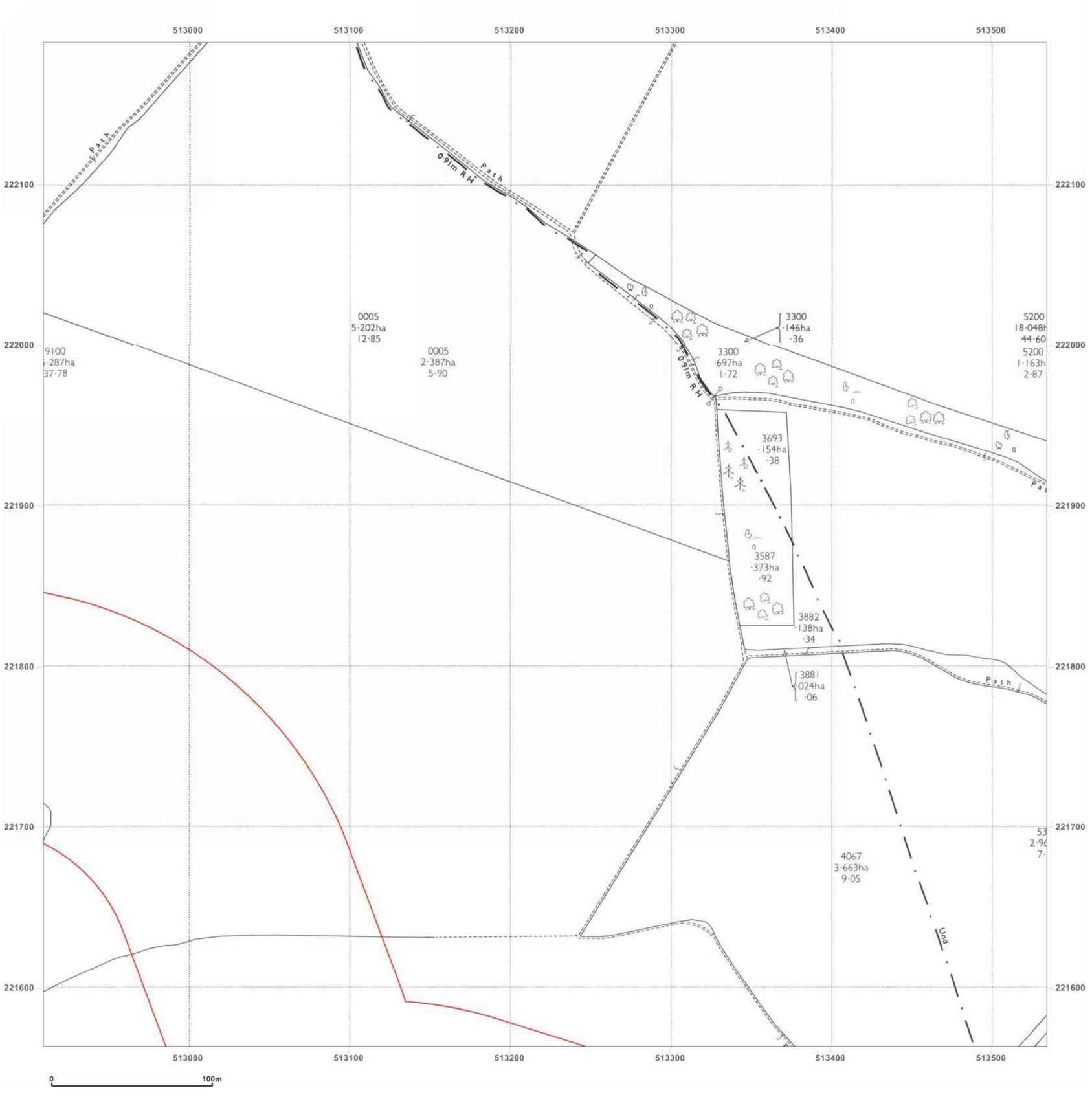

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_4
Grid Ref: 513222, 221876

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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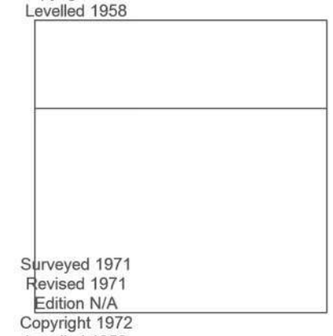
Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958



Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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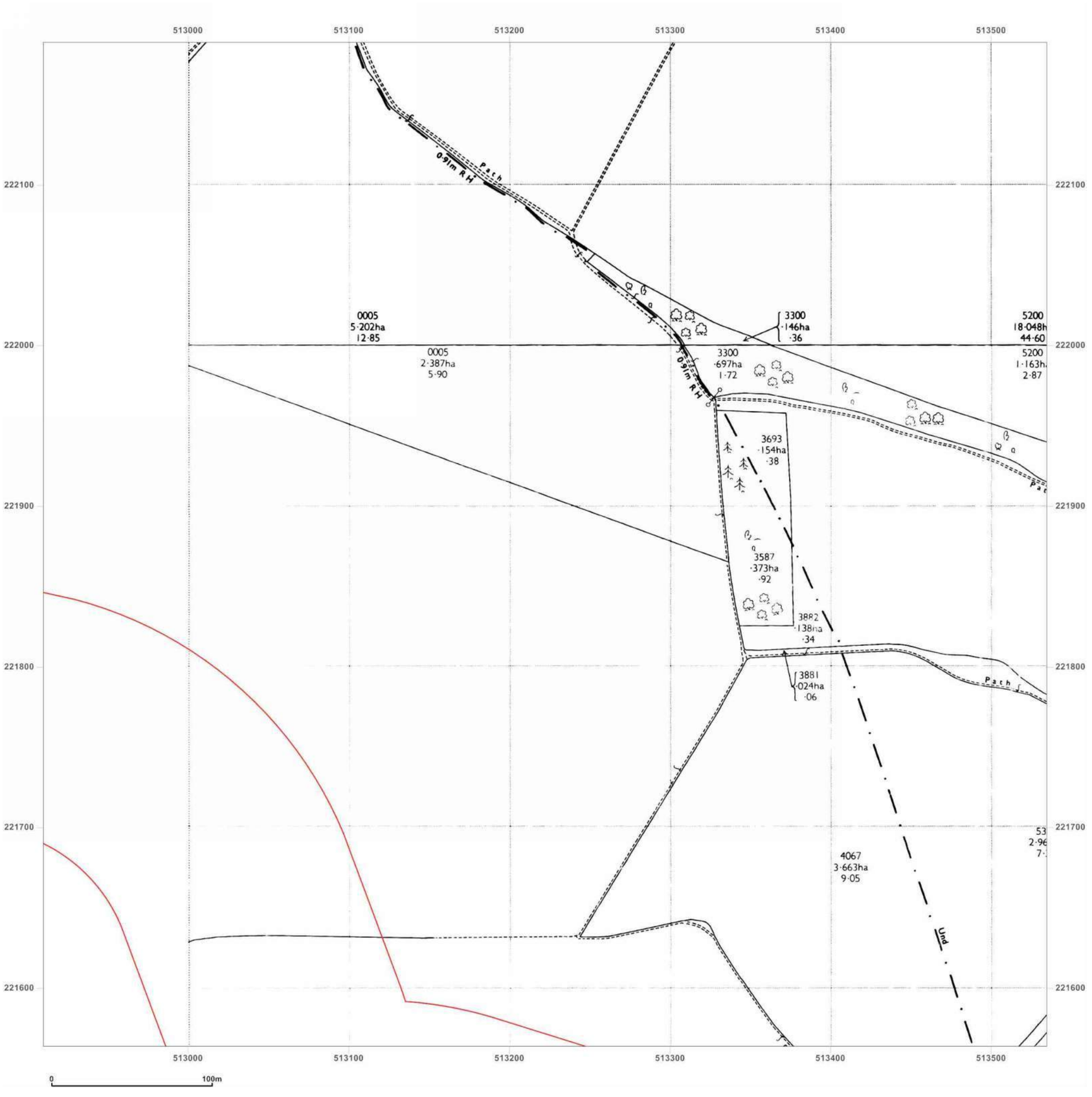

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_4
Grid Ref: 513222, 221876

Map Name: National Grid

Map date: **1972**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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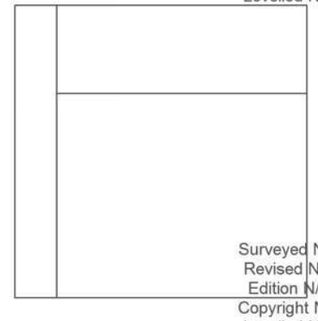
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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

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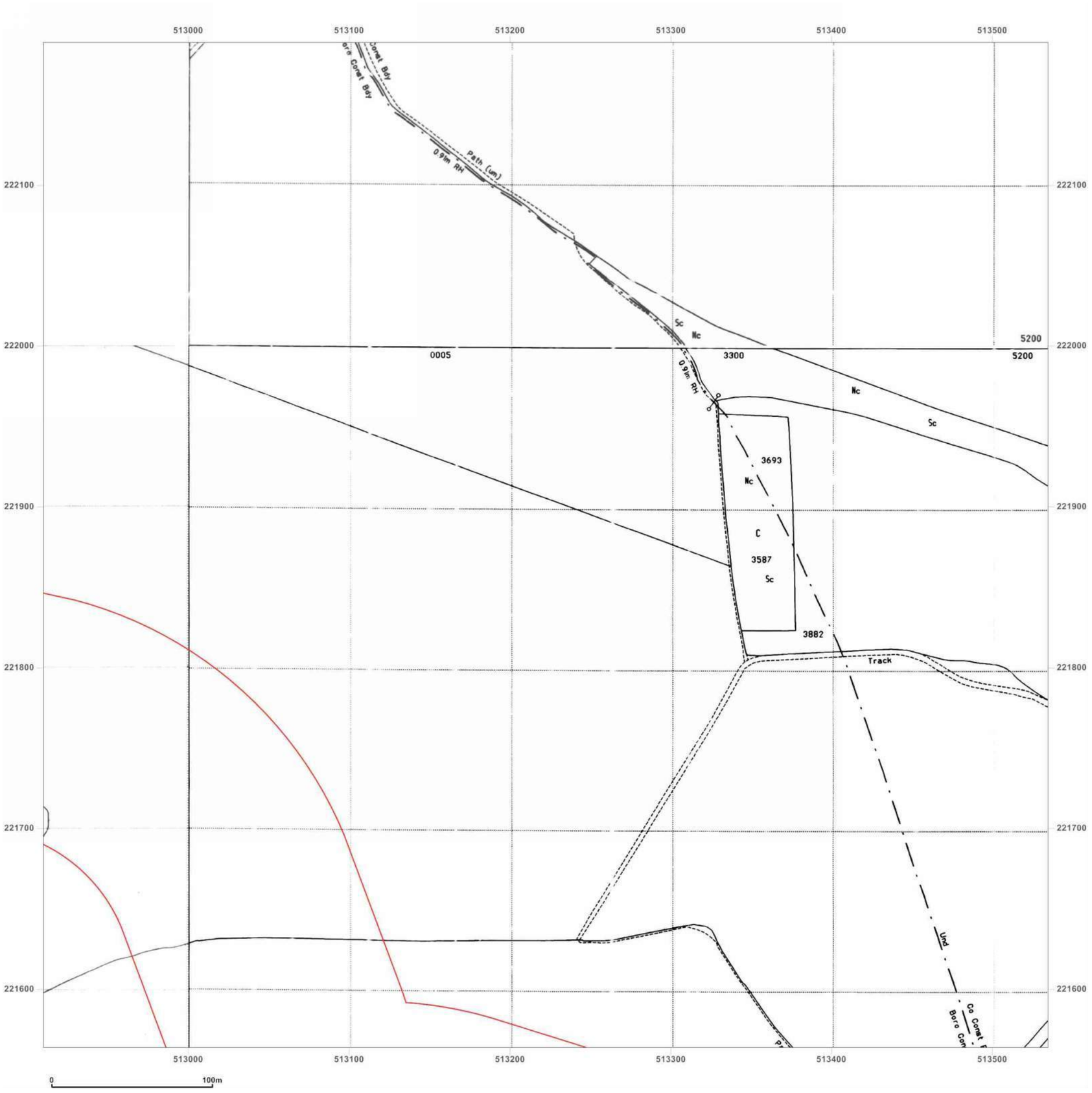

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_4
Grid Ref: 513222, 221876

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised 1992
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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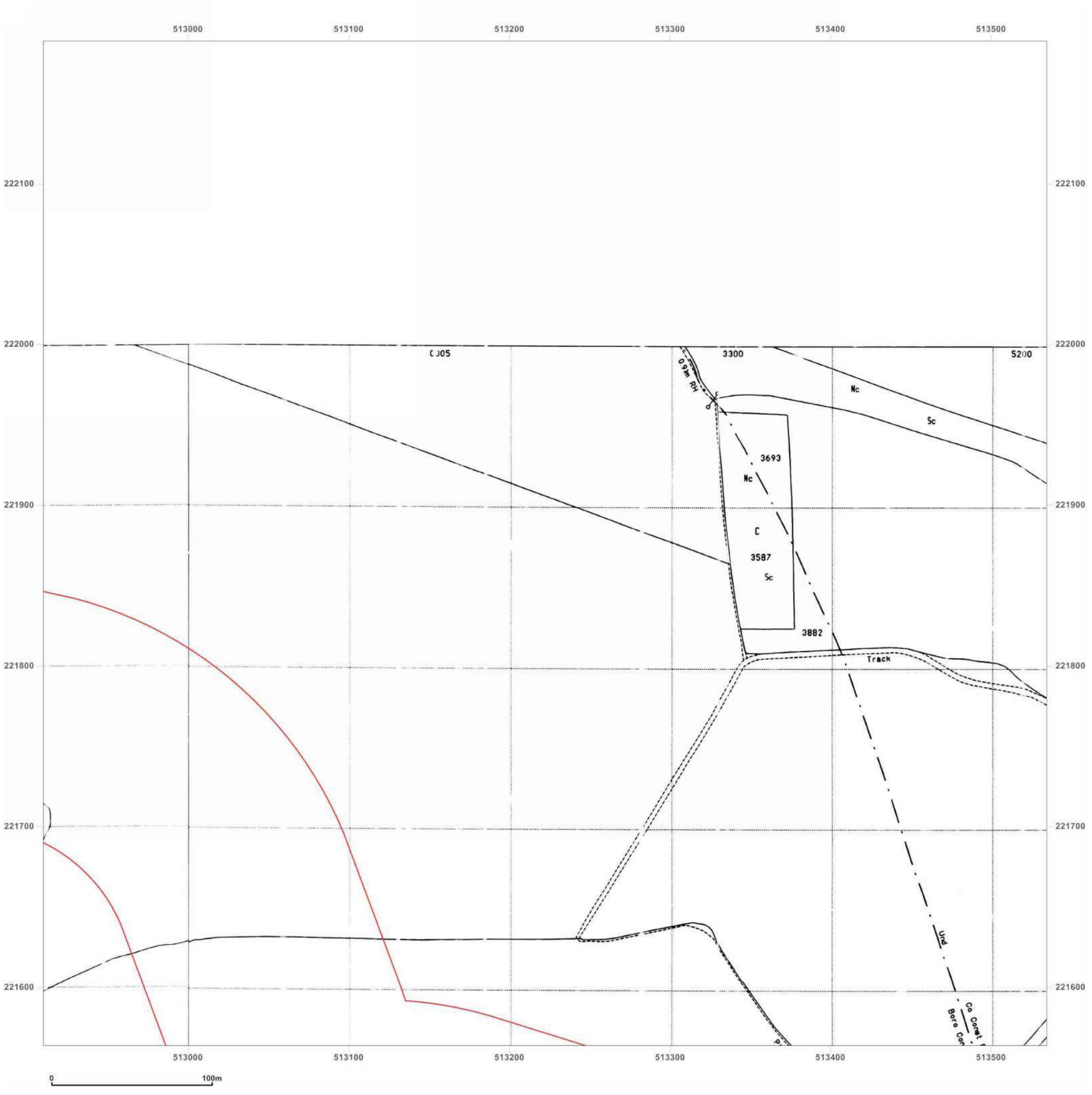


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_4
Grid Ref: 513222, 221876

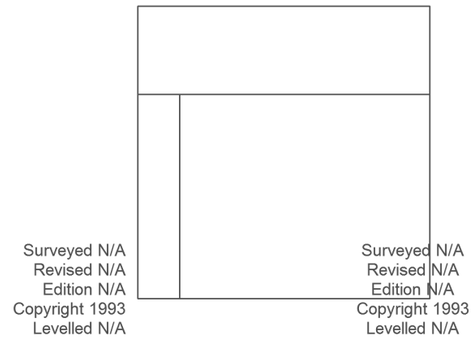
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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Production date: 20 November 2020

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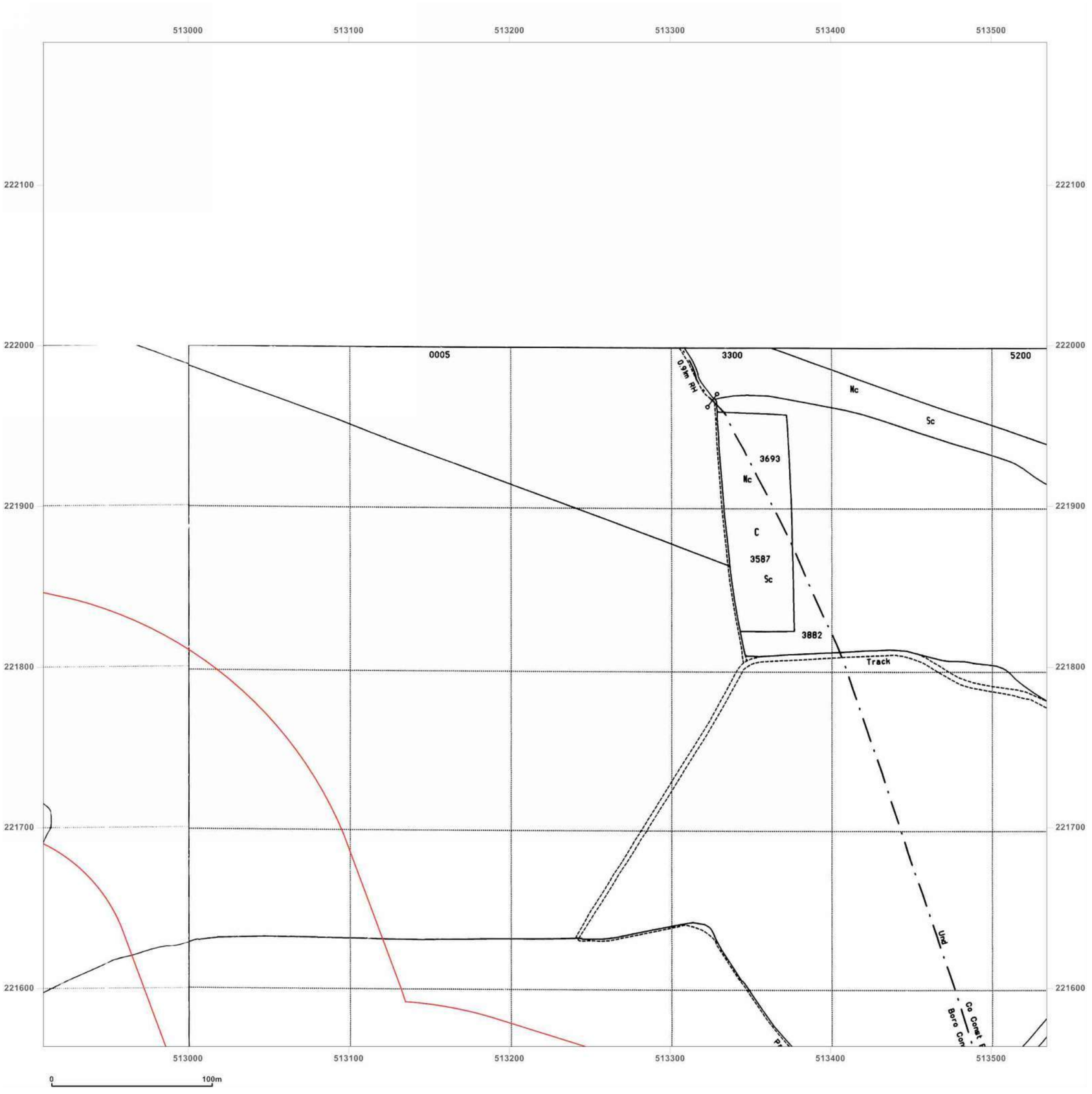


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_5_4
Grid Ref: 513222, 221876

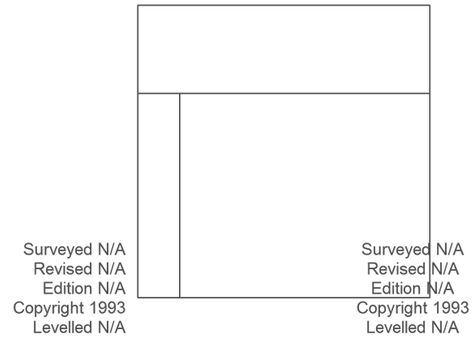
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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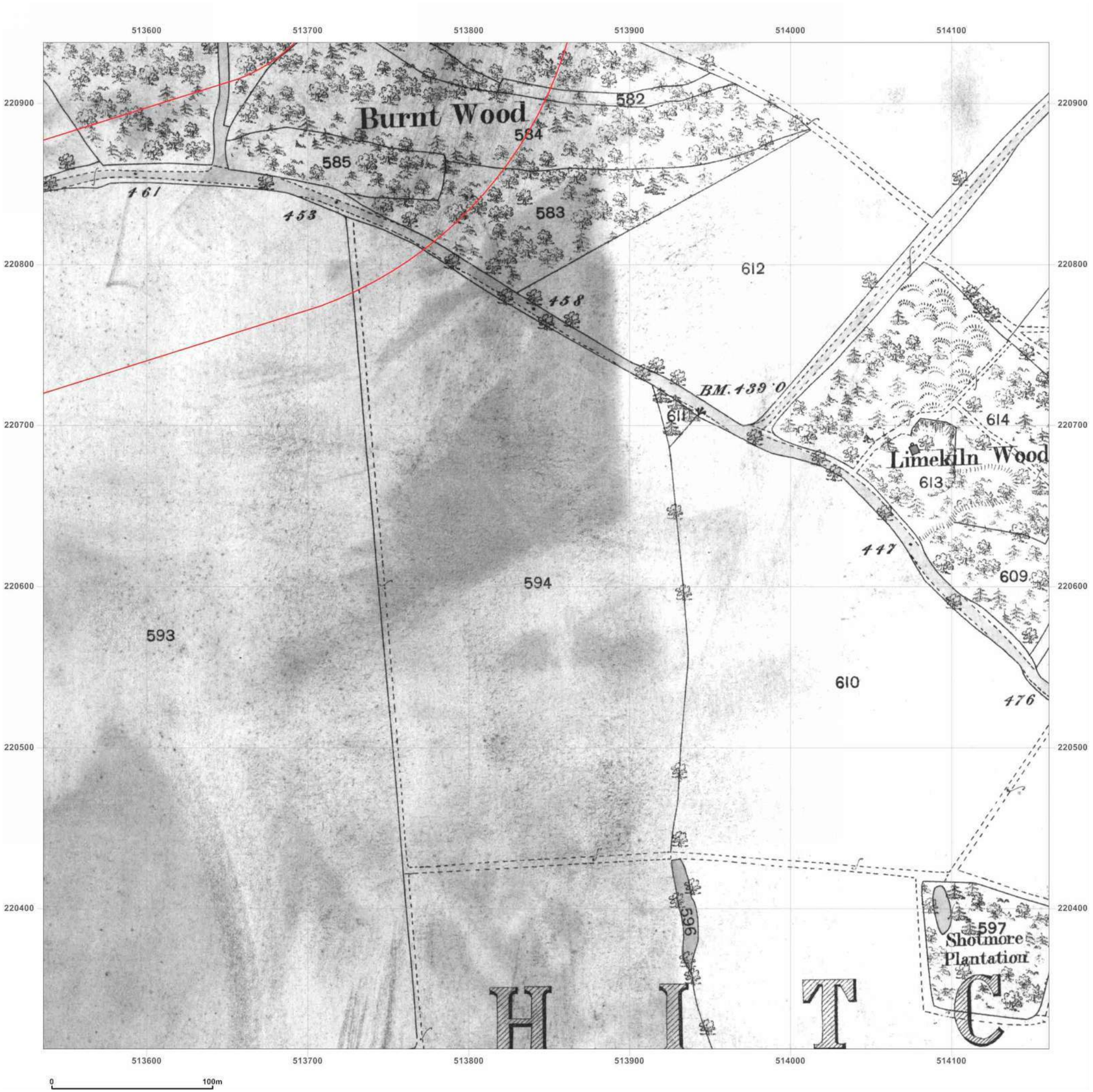


Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_2
Grid Ref: 513848, 220625

Map Name: County Series

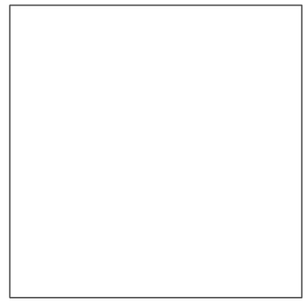
Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



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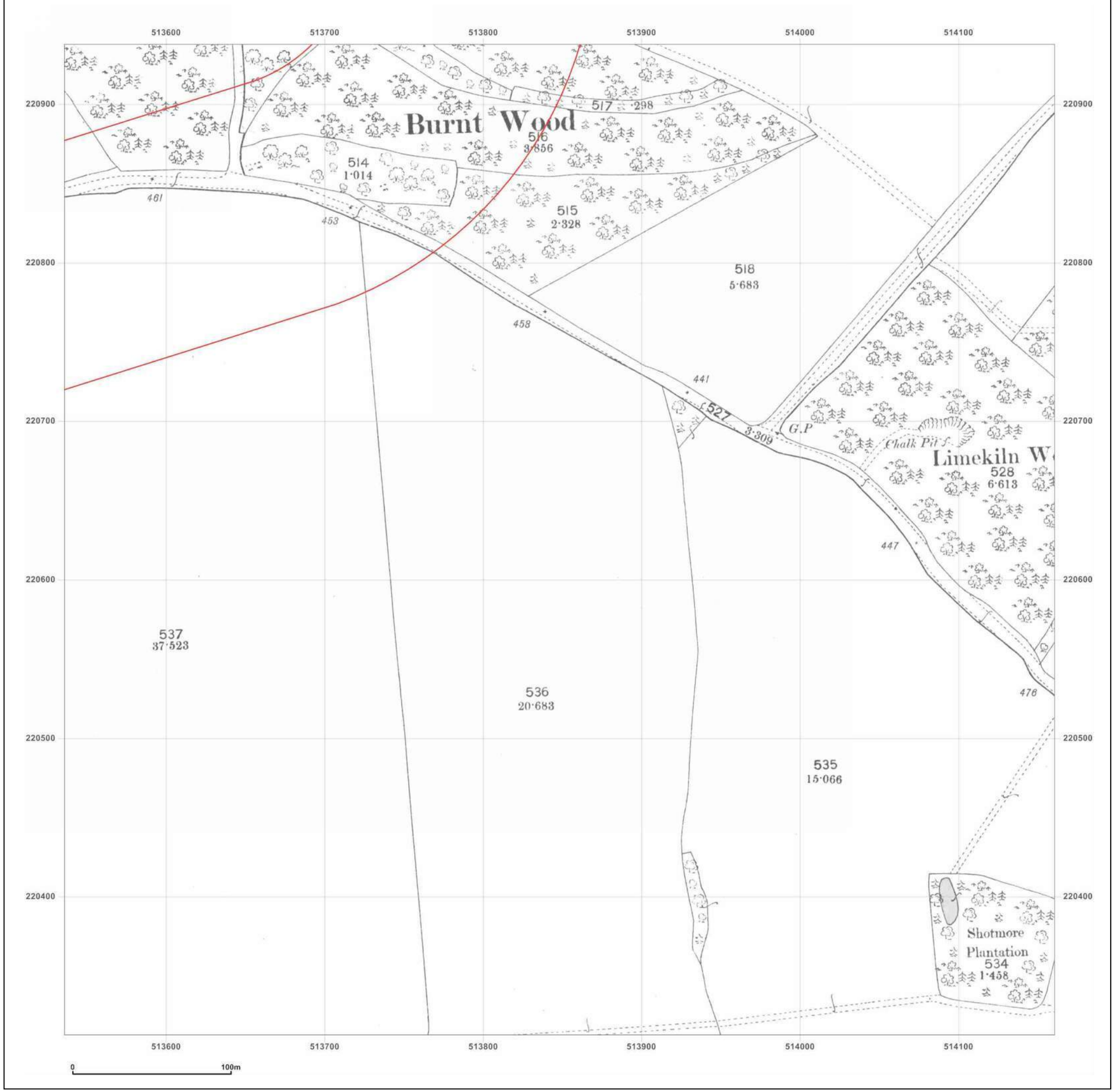

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_2
Grid Ref: 513848, 220625

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_2
Grid Ref: 513848, 220625

Map Name: County Series

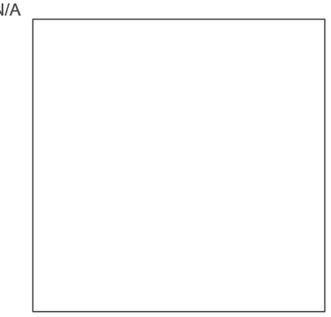
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



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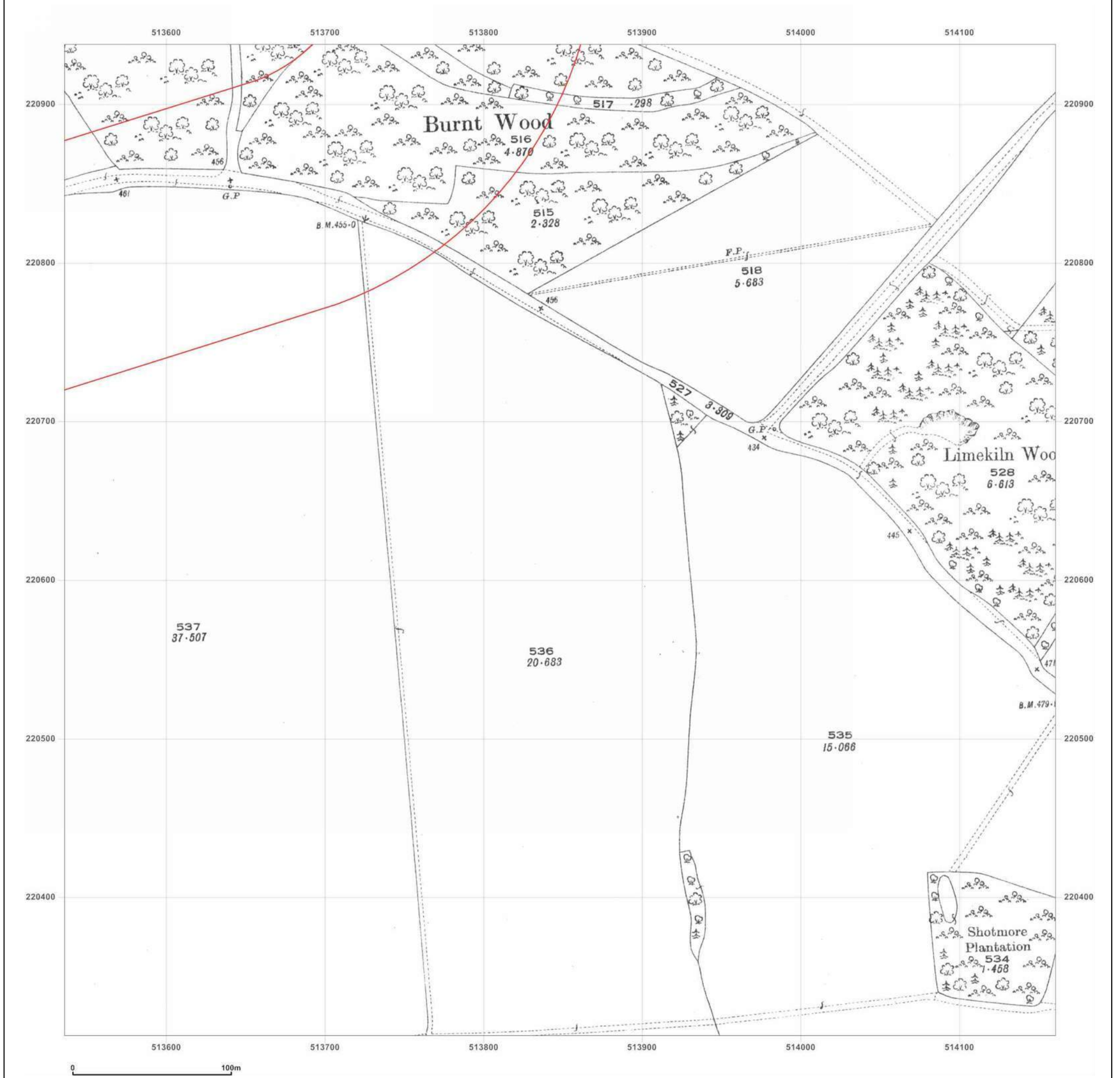

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_2
Grid Ref: 513848, 220625

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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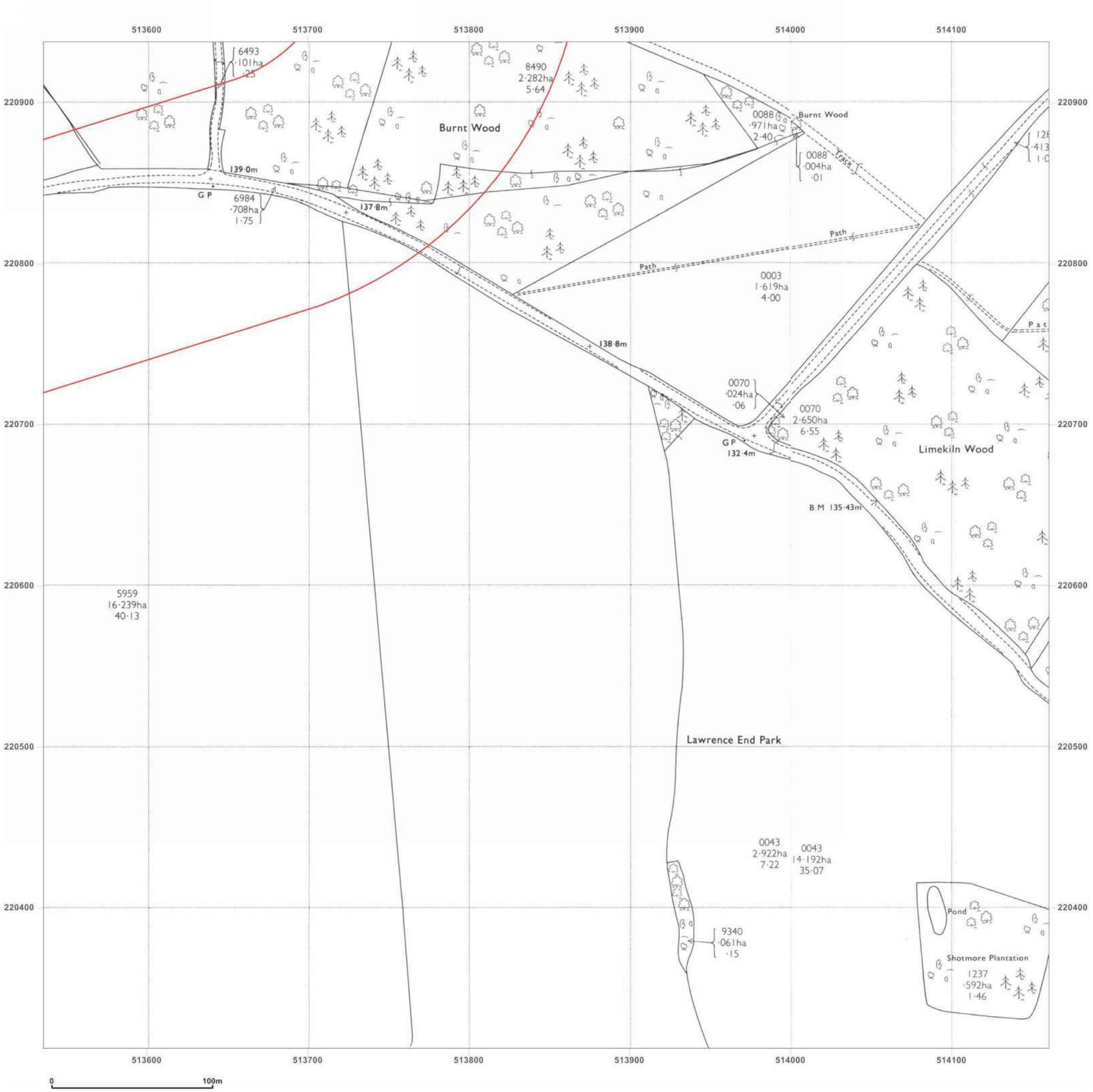

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_2
Grid Ref: 513848, 220625

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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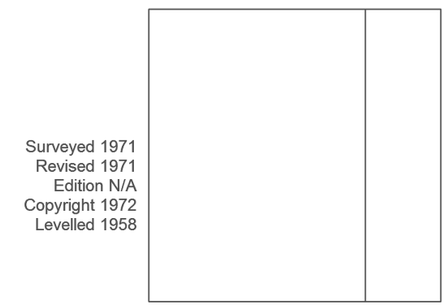

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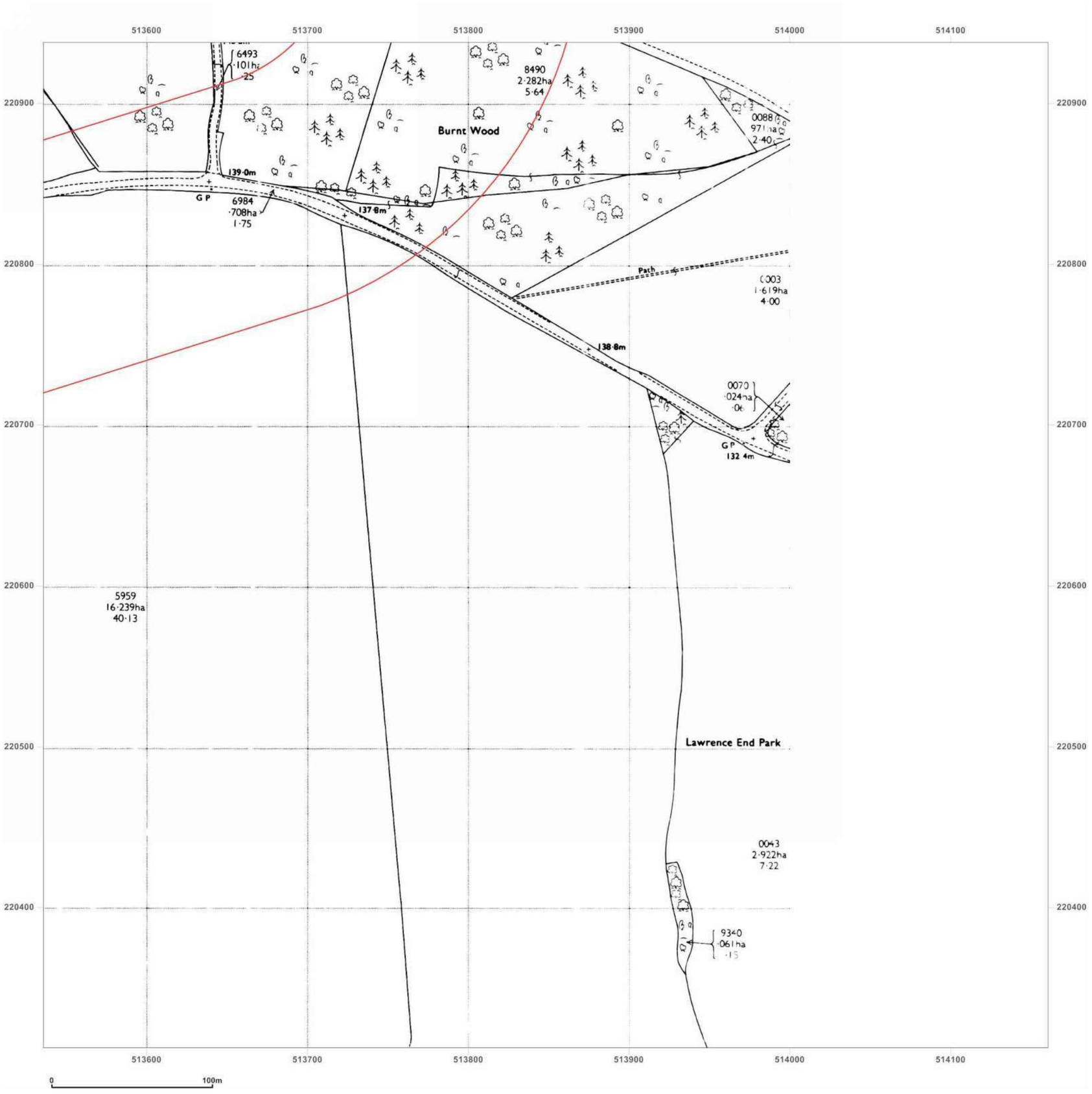

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_2
Grid Ref: 513848, 220625

Map Name: National Grid
Map date: **1972**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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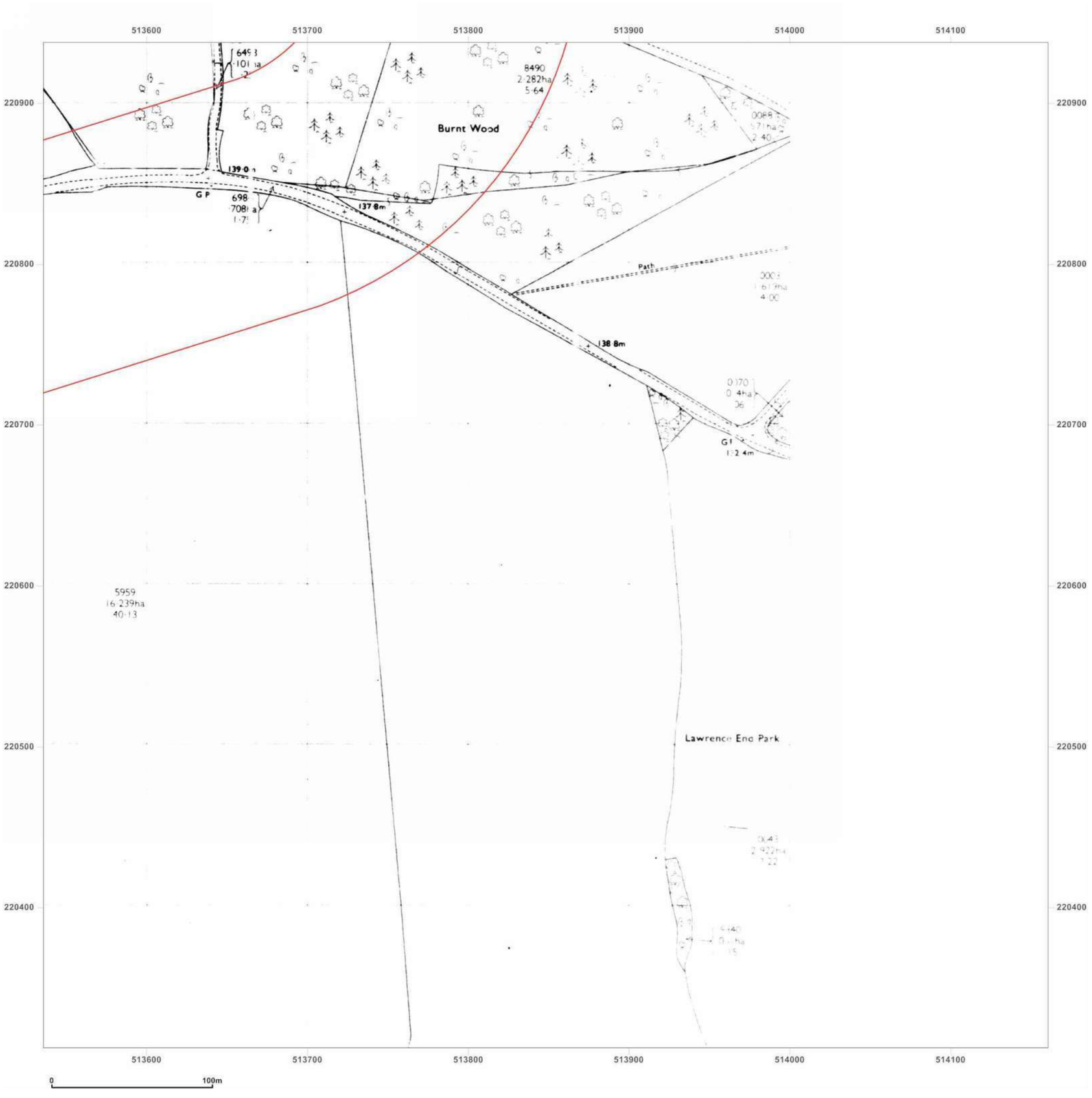

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_2
Grid Ref: 513848, 220625

Map Name: National Grid

Map date: **1973**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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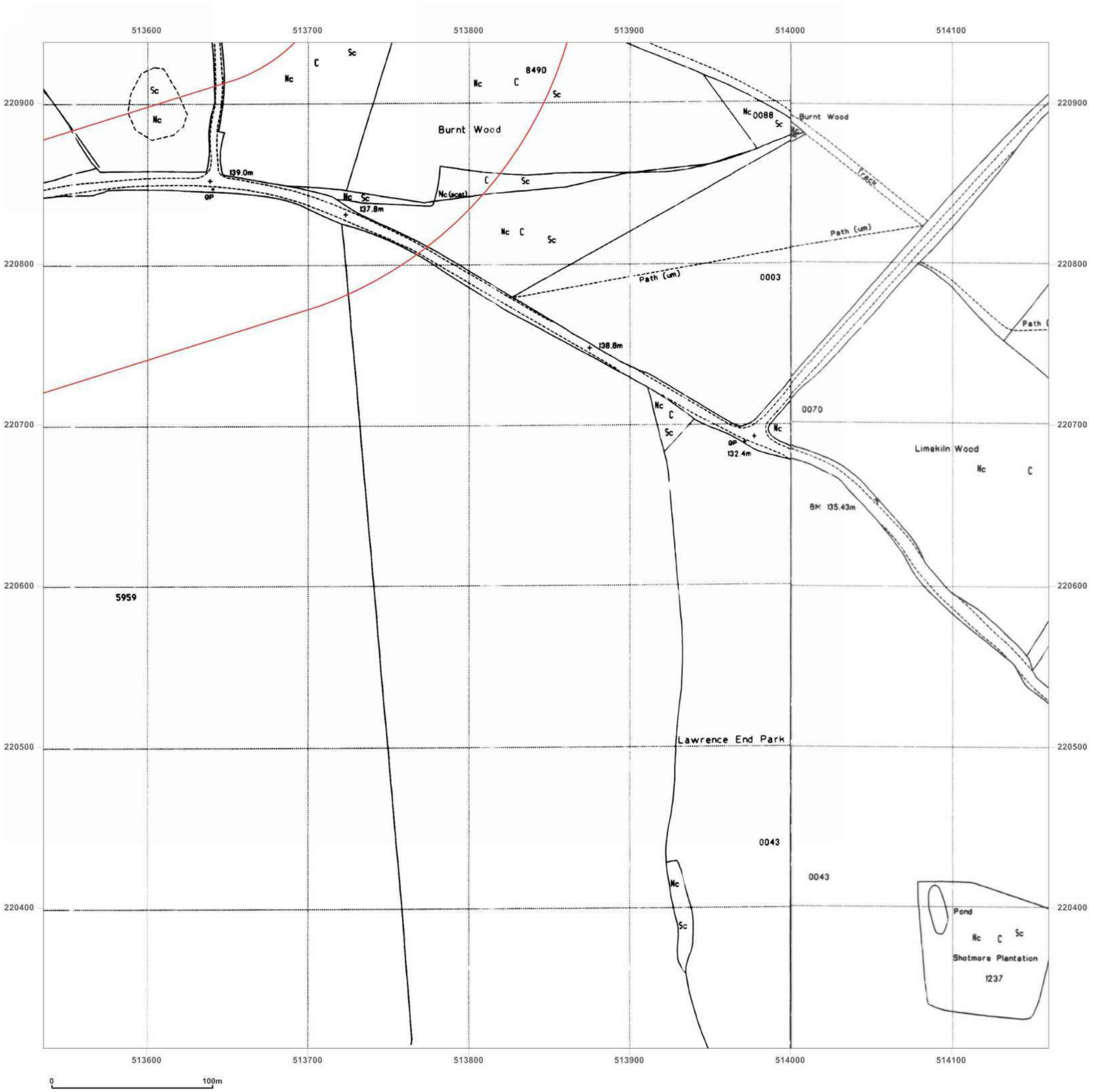

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_2
Grid Ref: 513848, 220625

Map Name: National Grid

Map date: **1992-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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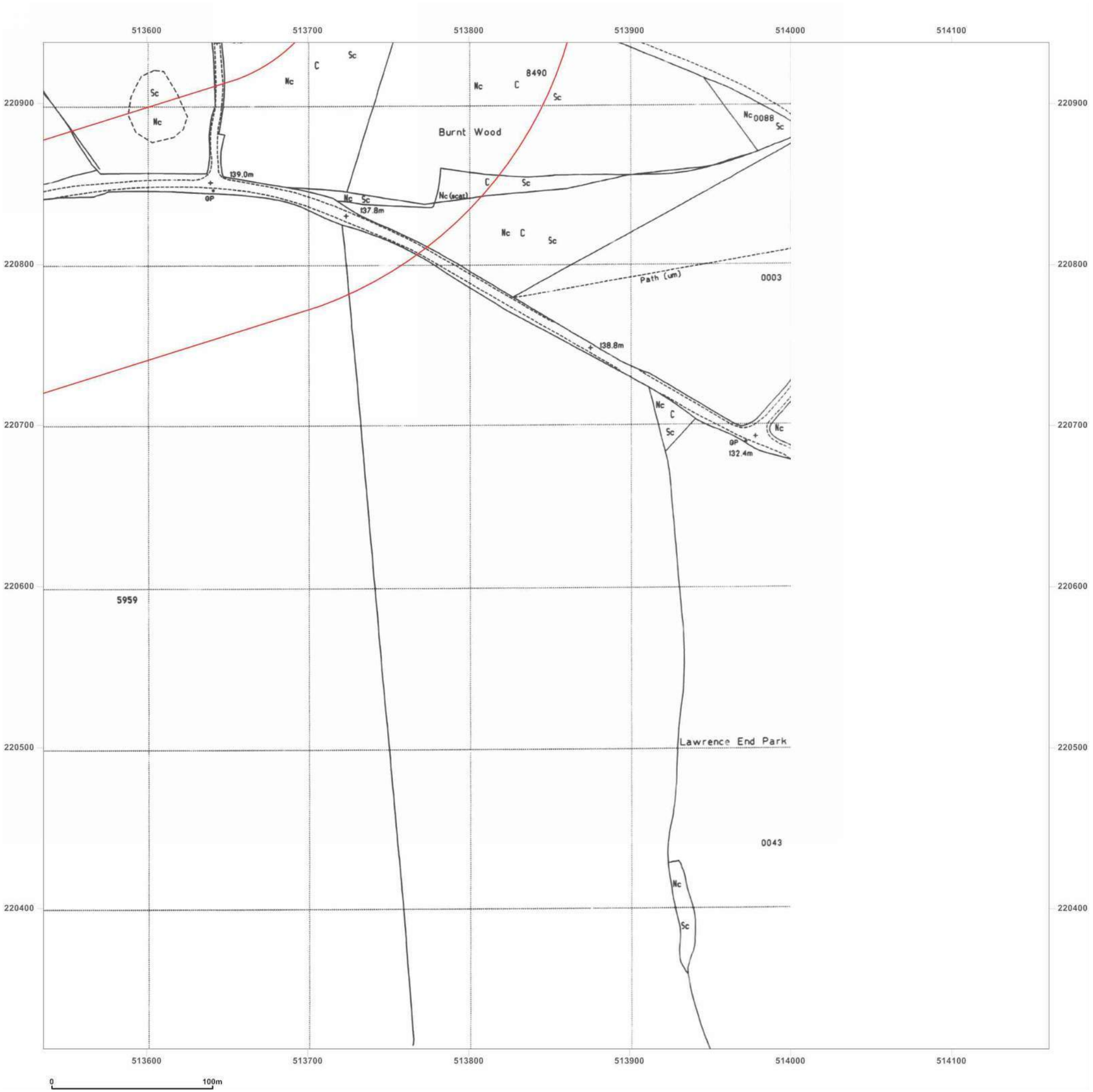

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_2
Grid Ref: 513848, 220625

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

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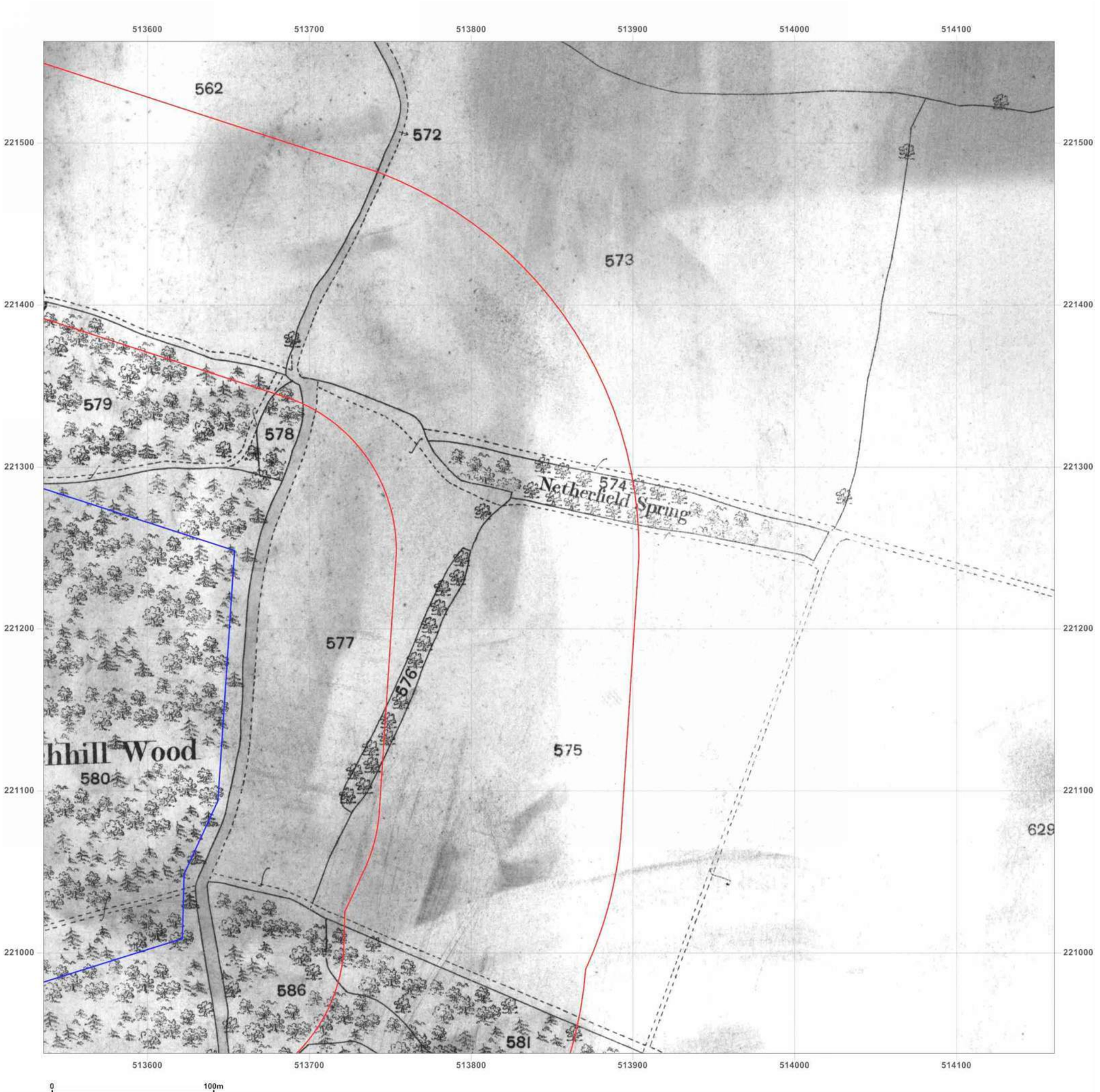

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_3
Grid Ref: 513848, 221250

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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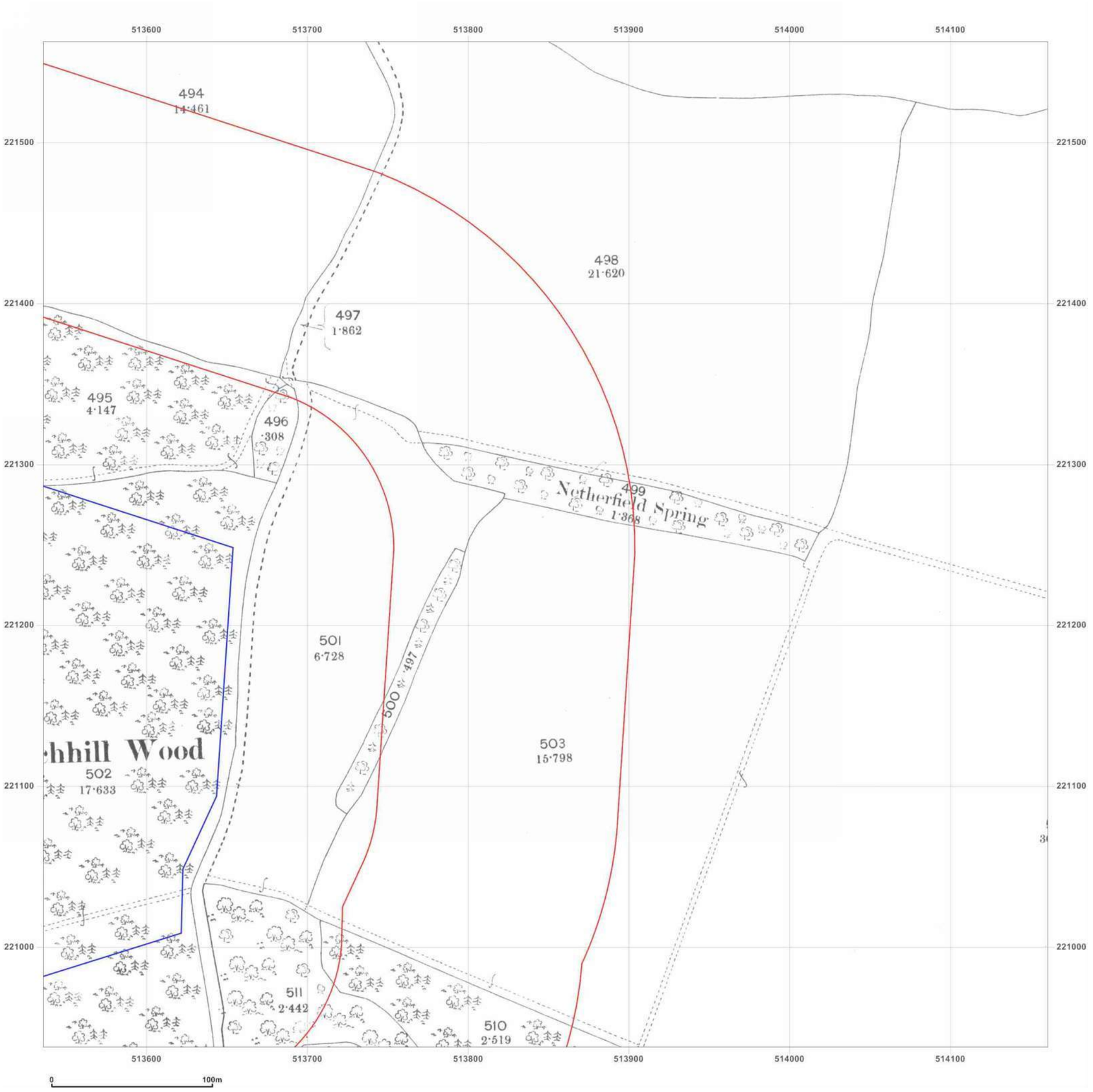

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_3
Grid Ref: 513848, 221250

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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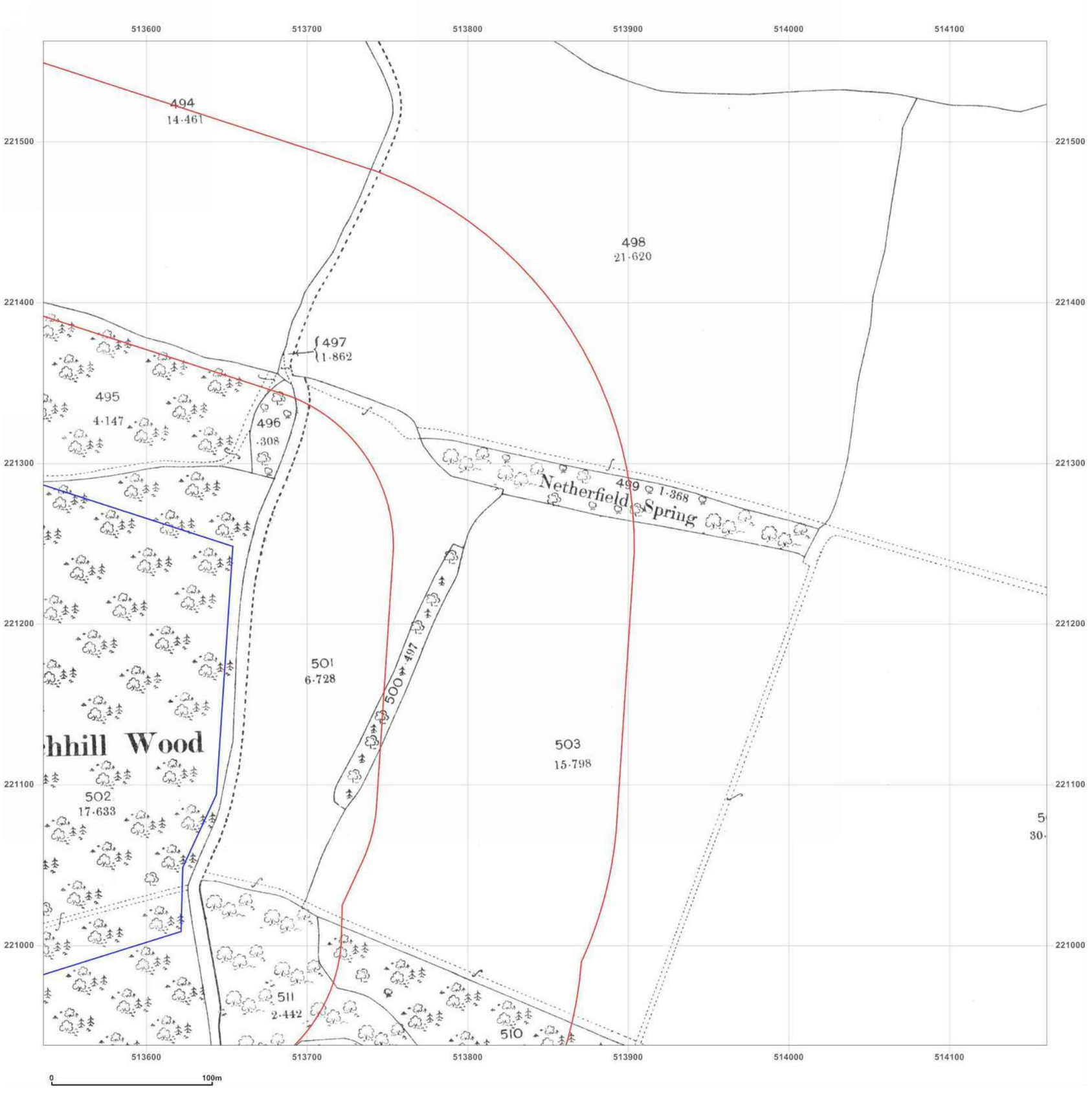

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_3
Grid Ref: 513848, 221250

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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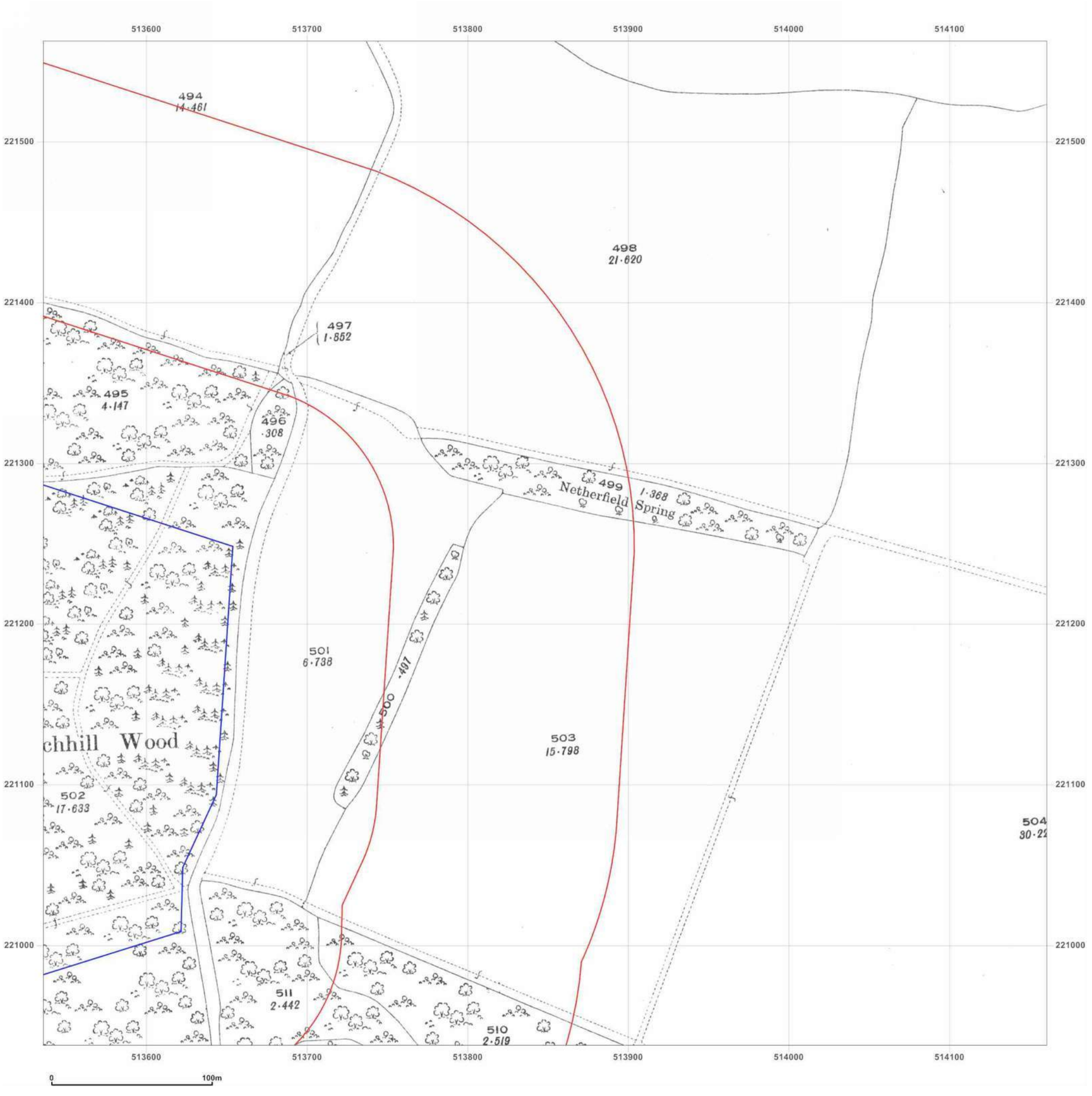

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_3
Grid Ref: 513848, 221250

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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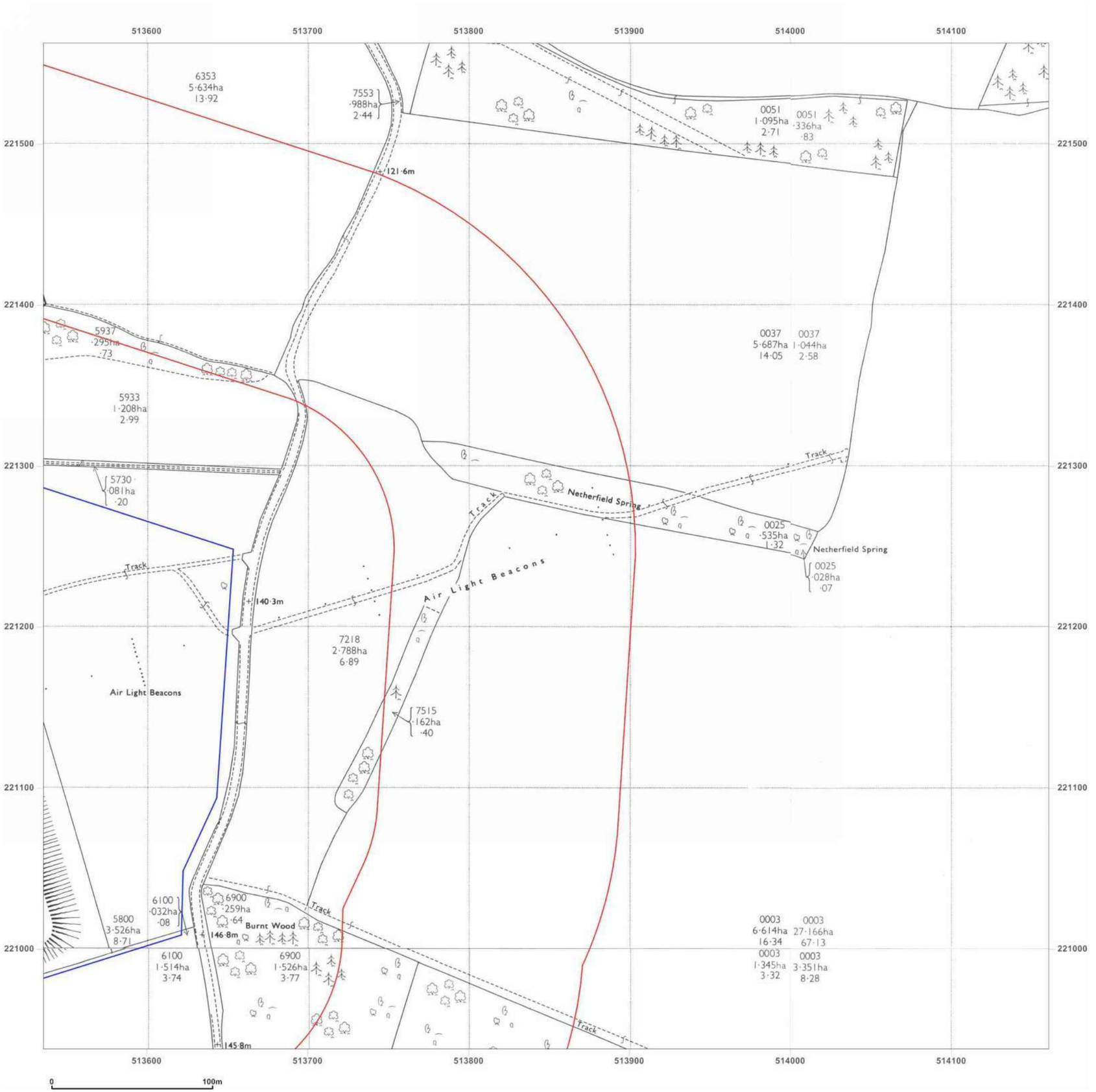

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_3
Grid Ref: 513848, 221250

Map Name: National Grid
Map date: **1971**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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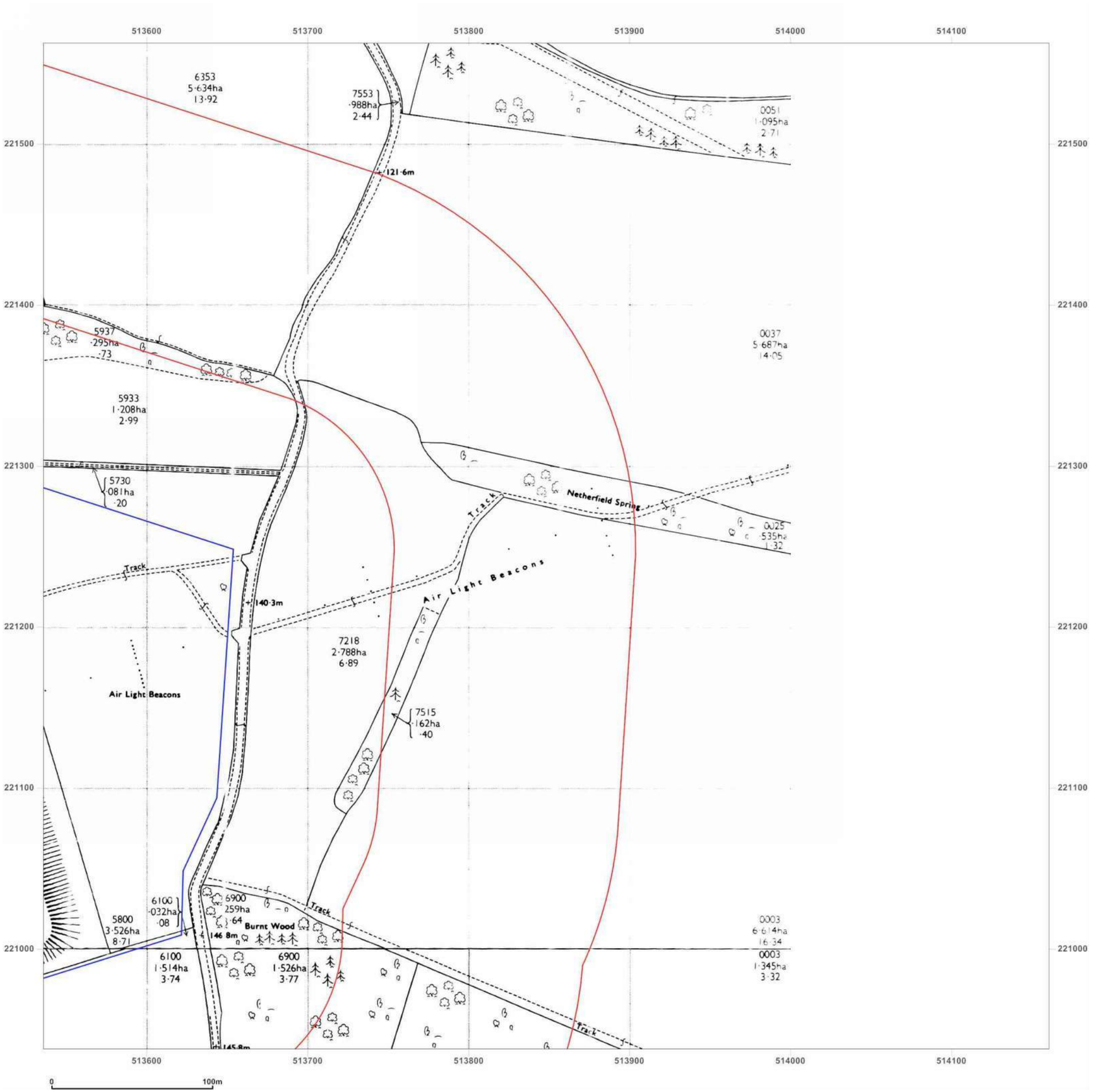


Groundsure INSIGHTS

Site Details:

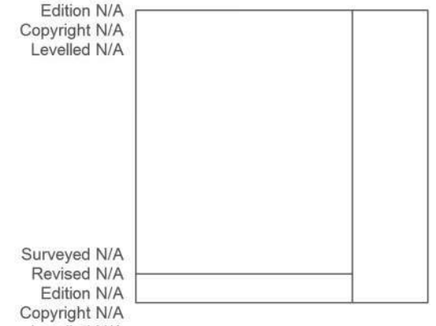
Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_3
Grid Ref: 513848, 221250

Map Name: National Grid
Map date: **1972**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
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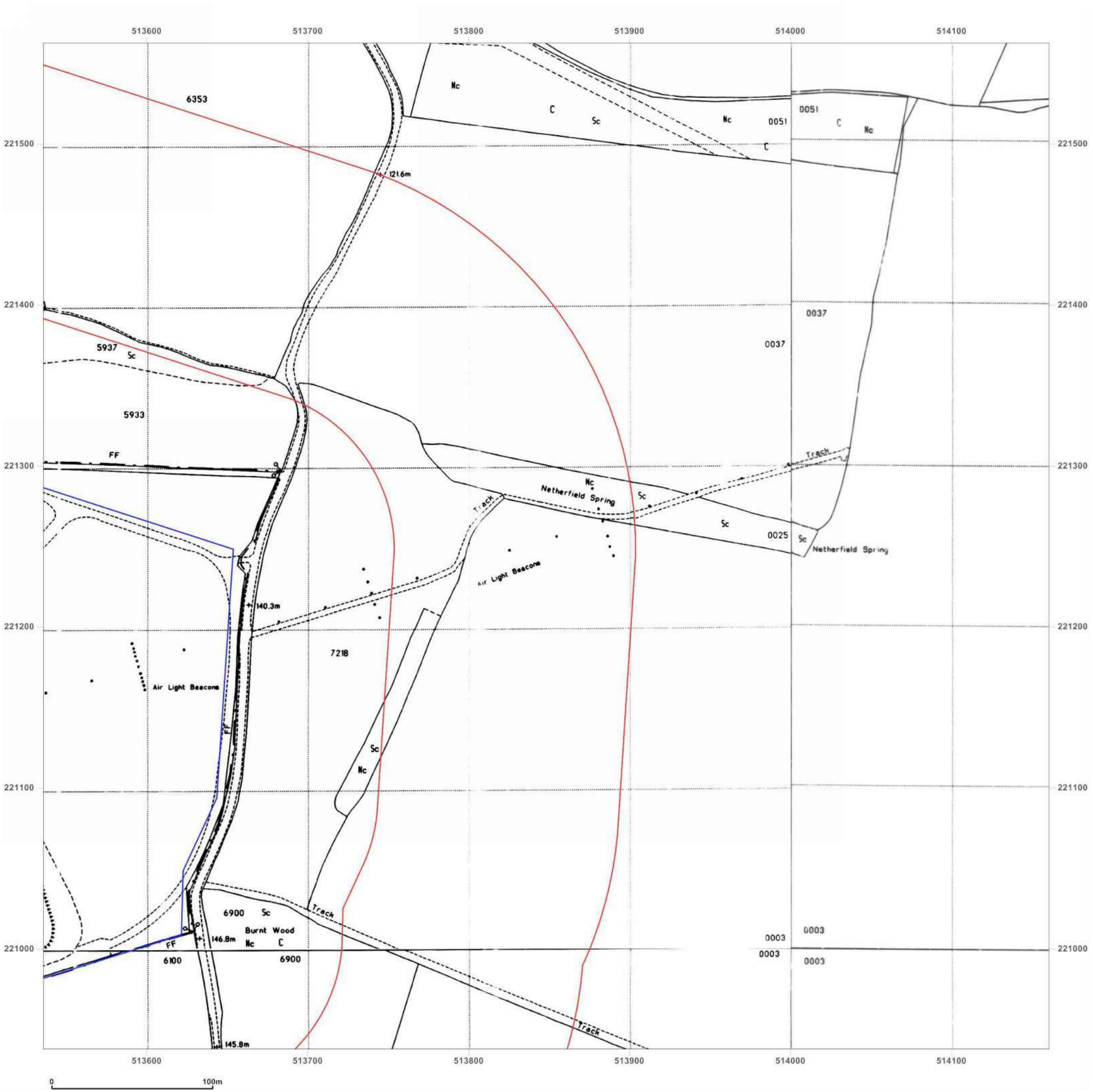

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_3
Grid Ref: 513848, 221250

Map Name: National Grid

Map date: **1992-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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

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

Surveyed N/A
Revised N/A
Edition N/A
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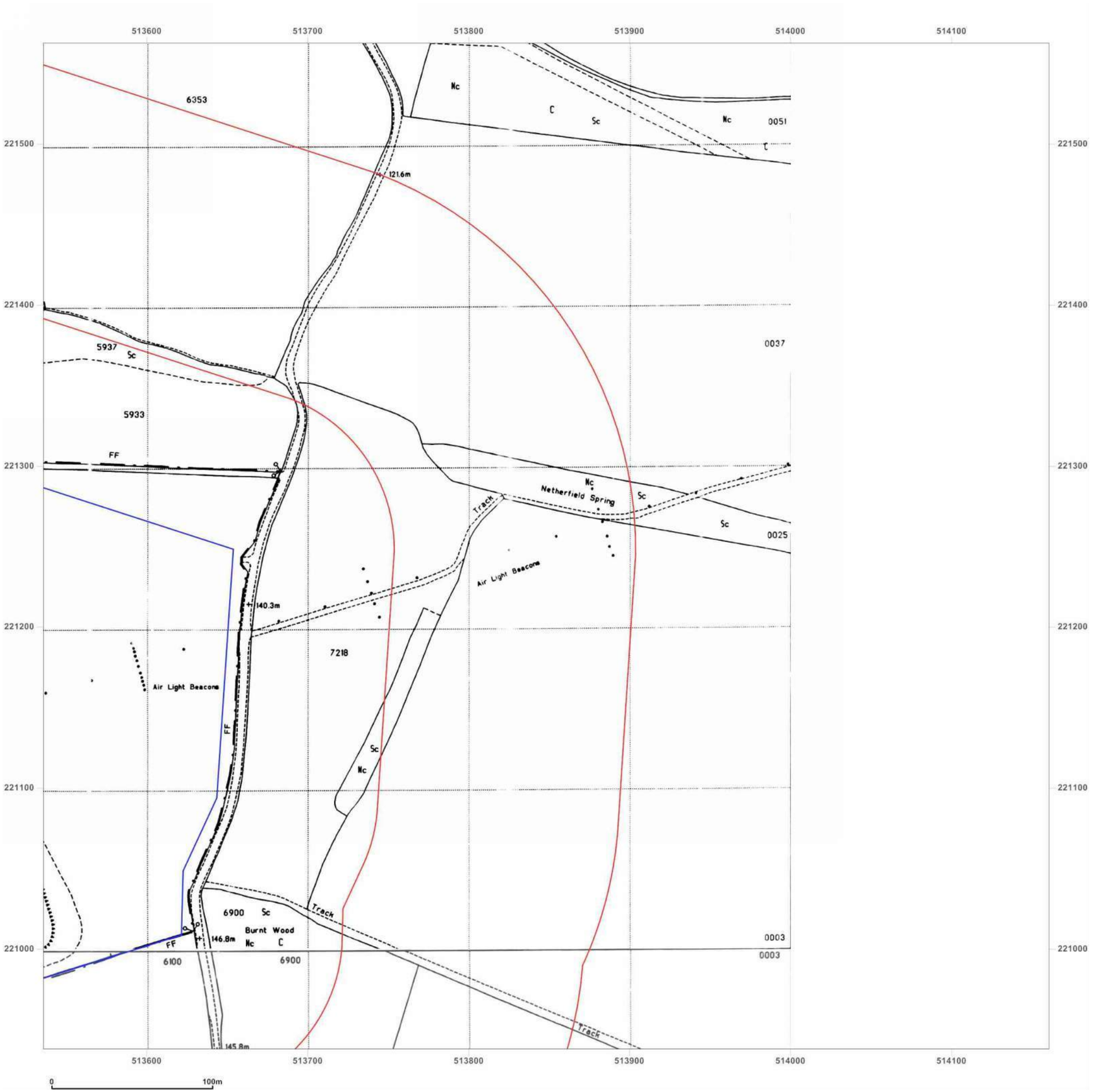

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_3
Grid Ref: 513848, 221250

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

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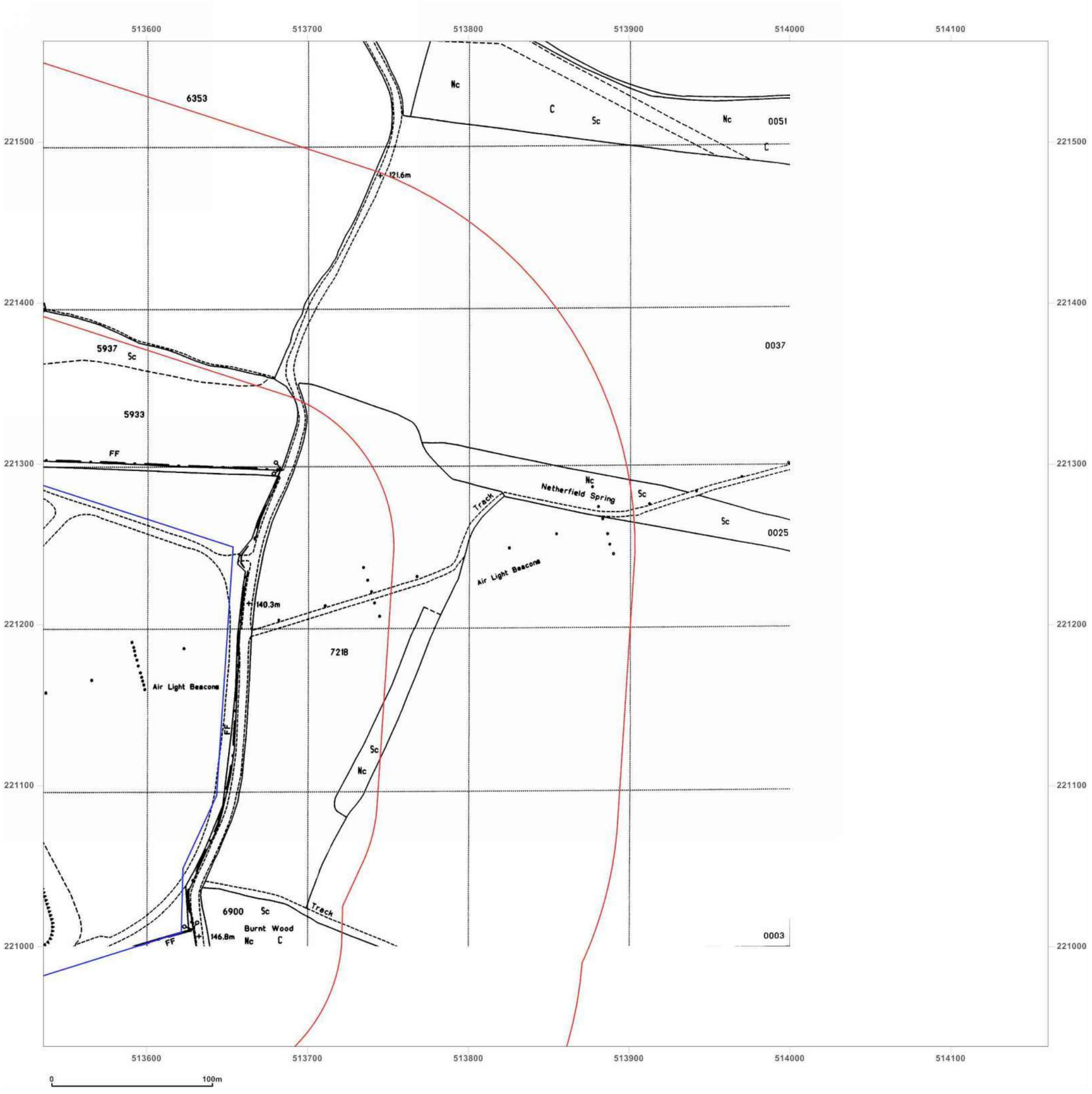

Groundsure INSIGHTS

Site Details:

Luton Airport

Client Ref: Luton Aiport Expansion
Report Ref: GSIP-2020-10588-3211_LS_6_3
Grid Ref: 513848, 221250

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed N/A
Revised N/A
Edition N/A
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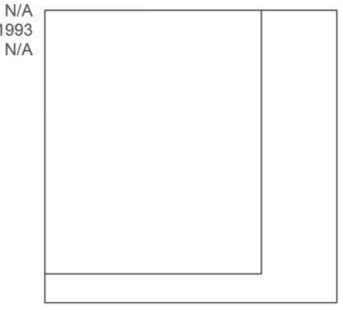

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A3 Airport Access Road

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Proposed Link Road - CPAR

Order Details

Date: 23/11/2020

Your ref: Proposed Link Road - CPAR

Our Ref: GSIP-2020-10588-3215

Client: Ove Arup & Partners International Ltd

Site Details

Location: 511757 221628

Area: 64.97 ha

Authority: Luton Borough Council

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Summary of findings p. 2

OS MasterMap site plan N/A: >10ha

Aerial image p. 8

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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	39	27	58	28	-
19	1.2	Historical tanks	14	11	21	6	-
21	1.3	Historical energy features	8	4	11	12	-
23	1.4	Historical petrol stations	0	0	3	0	-
23	1.5	Historical garages	0	0	4	0	-
24	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
25	2.1	Historical industrial land uses	68	49	108	44	-
35	2.2	Historical tanks	23	16	35	10	-
38	2.3	Historical energy features	18	7	30	25	-
42	2.4	Historical petrol stations	0	0	5	0	-
42	2.5	Historical garages	0	0	5	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
43	3.1	Active or recent landfill	0	0	0	0	-
43	3.2	Historical landfill (BGS records)	0	0	1	0	-
44	3.3	Historical landfill (LA/mapping records)	4	1	0	0	-
44	3.4	Historical landfill (EA/NRW records)	1	0	0	0	-
45	3.5	Historical waste sites	0	0	1	0	-
45	3.6	Licensed waste sites	5	1	0	0	-
47	3.7	Waste exemptions	0	0	2	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
48	4.1	Recent industrial land uses	38	29	53	-	-
55	4.2	Current or recent petrol stations	0	2	1	0	-
56	4.3	Electricity cables	0	0	0	0	-
56	4.4	Gas pipelines	0	0	0	0	-
56	4.5	Sites determined as Contaminated Land	0	0	0	0	-

56	4.6	Control of Major Accident Hazards (COMAH)	1	0	0	0	-
57	4.7	Regulated explosive sites	1	0	0	0	-
57	4.8	Hazardous substance storage/usage	0	1	2	0	-
58	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
58	4.10	Licensed industrial activities (Part A(1))	0	0	1	0	-
58	4.11	Licensed pollutant release (Part A(2)/B)	3	1	4	2	-
60	4.12	Radioactive Substance Authorisations	0	0	0	0	-
60	4.13	Licensed Discharges to controlled waters	3	0	0	9	-
62	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
62	4.15	Pollutant release to public sewer	0	0	0	0	-
62	4.16	List 1 Dangerous Substances	0	3	0	0	-
62	4.17	List 2 Dangerous Substances	0	0	0	0	-
63	4.18	Pollution Incidents (EA/NRW)	0	2	4	3	-
64	4.19	Pollution inventory substances	0	0	0	0	-
64	4.20	Pollution inventory waste transfers	0	0	0	0	-
64	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
65	5.1	Superficial aquifer	Identified (within 500m)				
67	5.2	Bedrock aquifer	Identified (within 500m)				
68	5.3	Groundwater vulnerability	Identified (within 50m)				
72	5.4	Groundwater vulnerability- soluble rock risk	Identified (within 0m)				
72	5.5	Groundwater vulnerability- local information	None (within 0m)				
73	5.6	Groundwater abstractions	0	0	3	1	11
77	5.7	Surface water abstractions	0	0	0	0	0
77	5.8	Potable abstractions	0	0	0	0	2
78	5.9	Source Protection Zones	1	1	0	0	-
78	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
79	6.1	Water Network (OS MasterMap)	0	0	6	-	-

80	**6.2**	**Surface water features**	1	0	3	-	-
80	**6.3**	**WFD Surface water body catchments**	2	-	-	-	-
81	**6.4**	**WFD Surface water bodies**	0	0	0	-	-
81	**6.5**	**WFD Groundwater bodies**	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
82	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
82	7.2	Historical Flood Events	0	0	0	-	-
82	7.3	Flood Defences	0	0	0	-	-
82	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
83	7.5	Flood Storage Areas	0	0	0	-	-
84	7.6	Flood Zone 2	None (within 50m)				
84	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
85	**8.1**	**Surface water flooding**	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
87	**9.1**	**Groundwater flooding**	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
88	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
89	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
89	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
89	10.4	Special Protection Areas (SPA)	0	0	0	0	0
89	10.5	National Nature Reserves (NNR)	0	0	0	0	0
90	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
90	**10.7**	**Designated Ancient Woodland**	0	0	0	0	12
91	10.8	Biosphere Reserves	0	0	0	0	0
91	10.9	Forest Parks	0	0	0	0	0
91	10.10	Marine Conservation Zones	0	0	0	0	0
91	**10.11**	**Green Belt**	0	0	1	1	3
92	10.12	Proposed Ramsar sites	0	0	0	0	0

92	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
92	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
92	10.15	Nitrate Sensitive Areas	0	0	0	0	0
93	**10.16**	**Nitrate Vulnerable Zones**	1	0	0	1	2
94	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
95	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
96	11.1	World Heritage Sites	0	0	0	-	-
97	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
97	11.3	National Parks	0	0	0	-	-
97	**11.4**	**Listed Buildings**	0	0	1	-	-
98	11.5	Conservation Areas	0	0	0	-	-
98	11.6	Scheduled Ancient Monuments	0	0	0	-	-
98	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
99	**12.1**	**Agricultural Land Classification**	Grade 3 (within 250m)				
100	12.2	Open Access Land	0	0	0	-	-
100	12.3	Tree Felling Licences	0	0	0	-	-
100	12.4	Environmental Stewardship Schemes	0	0	0	-	-
101	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
102	**13.1**	**Priority Habitat Inventory**	6	0	2	-	-
103	**13.2**	**Habitat Networks**	6	0	0	-	-
103	13.3	Open Mosaic Habitat	0	0	0	-	-
104	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
105	**14.1**	**10k Availability**	Identified (within 500m)				
106	**14.2**	**Artificial and made ground (10k)**	3	1	0	2	-
108	**14.3**	**Superficial geology (10k)**	5	0	1	2	-

109	14.4	Landslip (10k)	0	0	0	0	-
110	**14.5**	**Bedrock geology (10k)**	5	0	0	0	-
111	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
112	**15.1**	**50k Availability**	Identified (within 500m)				
113	**15.2**	**Artificial and made ground (50k)**	1	1	2	0	-
114	**15.3**	**Artificial ground permeability (50k)**	1	1	-	-	-
115	**15.4**	**Superficial geology (50k)**	2	2	0	2	-
116	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
116	15.6	Landslip (50k)	0	0	0	0	-
116	15.7	Landslip permeability (50k)	None (within 50m)				
117	**15.8**	**Bedrock geology (50k)**	7	1	4	6	-
118	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
119	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
120	**16.1**	**BGS Boreholes**	12	3	45	-	-
Page	Section	Natural ground subsidence					
124	**17.1**	**Shrink swell clays**	Low (within 50m)				
126	**17.2**	**Running sands**	Very low (within 50m)				
128	**17.3**	**Compressible deposits**	Very low (within 50m)				
130	**17.4**	**Collapsible deposits**	Very low (within 50m)				
131	**17.5**	**Landslides**	Low (within 50m)				
133	**17.6**	**Ground dissolution of soluble rocks**	Moderate (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
135	**18.1**	**Natural cavities**	1	0	1	1	-
136	**18.2**	**BritPits**	2	0	2	2	-
137	**18.3**	**Surface ground workings**	37	39	89	-	-
144	**18.4**	**Underground workings**	2	0	0	0	0
144	18.5	Historical Mineral Planning Areas	0	0	0	0	-

144	**18.6**	**Non-coal mining**	1	0	0	0	3
145	18.7	Mining cavities	0	0	0	0	0
145	18.8	JPB mining areas	None (within 0m)				
145	18.9	Coal mining	None (within 0m)				
145	18.10	Brine areas	None (within 0m)				
146	18.11	Gypsum areas	None (within 0m)				
146	18.12	Tin mining	None (within 0m)				
146	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
147	**19.1**	**Radon**	Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
148	**20.1**	**BGS Estimated Background Soil Chemistry**	49	14	-	-	-
152	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
152	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

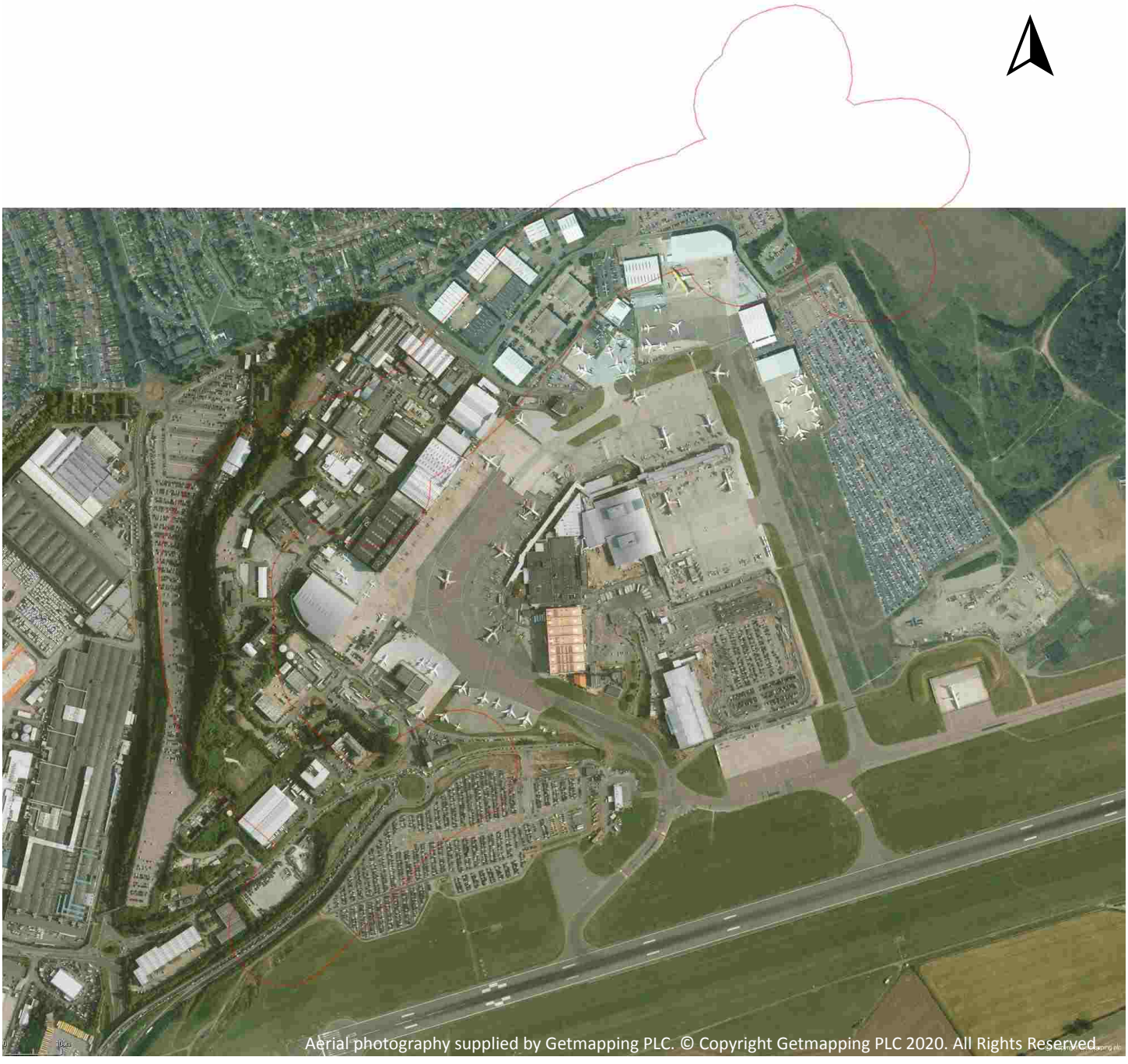
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
153	21.1	Underground railways (London)	0	0	0	-	-
153	21.2	Underground railways (Non-London)	0	0	0	-	-
154	21.3	Railway tunnels	0	0	0	-	-
154	**21.4**	**Historical railway and tunnel features**	0	0	1	-	-
154	21.5	Royal Mail tunnels	0	0	0	-	-
154	21.6	Historical railways	0	0	0	-	-
155	21.7	Railways	0	0	0	-	-
155	21.8	Crossrail 1	0	0	0	0	-
155	21.9	Crossrail 2	0	0	0	0	-
155	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 14/09/2019

Site Area: 64.97ha

Recent site history - 2016 aerial photograph



Capture Date: 23/07/2016

Site Area: 64.97ha

Recent site history - 2014 aerial photograph

Capture Date: 01/06/2014

Site Area: 64.97ha

Recent site history - 2010 aerial photograph

Capture Date: 27/04/2010

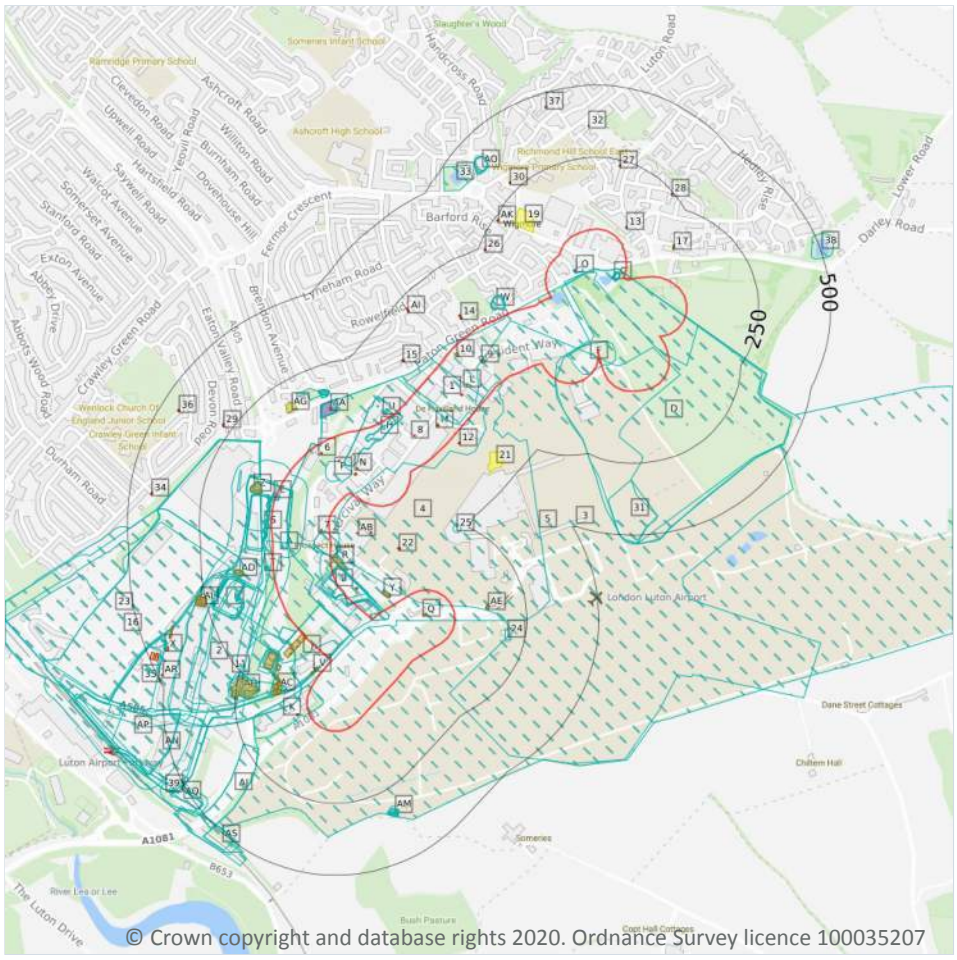
Site Area: 64.97ha

Recent site history - 1999 aerial photograph

Capture Date: 27/05/1999

Site Area: 64.97ha

1 Past land use



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Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

1.1 Historical industrial land uses

Records within 500m	152

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 13**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Engineering Works**	**1973**	**2059803**

ID	Location	Land use	Dates present	Group ID
2	On site	Abandoned Airfield	1938	2064746
3	On site	Airport	1985 - 1991	2075273
4	On site	Airport	1973	2080536
5	On site	Airport	1951	2088346
A	On site	Unspecified Tank	1951	2043968
A	On site	Sludge Pit	1922 - 1947	2108290
B	On site	Infectious Disease Hospital	1938	2062131
B	On site	Infectious Diseases Hospital	1947 - 1951	2068392
B	On site	Infectious Diseases Hospital	1938	2075790
B	On site	Infectious Diseases Hospital	1900	2078238
B	On site	Infectious Diseases Hospital	1922 - 1938	2097497
B	On site	Infectious Diseases Hospital	1922	2101615
C	On site	Old Gravel Pit	1899	2067460
C	On site	Unspecified Pit	1925 - 1947	2080471
C	On site	Old Gravel Pit	1879	2090210
C	On site	Unspecified Pit	1951	2095864
C	On site	Unspecified Pit	1925	2101612
C	On site	Old Gravel Pit	1888 - 1899	2113794
D	On site	Unspecified Workings	1985 - 1991	2068404
D	On site	Refuse Heap	1973	2110727
E	On site	Pumping Station	1938	2069073
E	On site	Pumping Station	1922 - 1947	2075017
E	On site	Pumping Station	1922 - 1938	2101396
F	On site	Unspecified Pit	1985 - 1991	2070559
G	On site	Unspecified Ground Workings	1985	2071001
G	On site	Unspecified Ground Workings	1973	2111956
H	On site	Clay Pit	1888	2083056
H	On site	Brick and Tile Works	1879	2088412

ID	Location	Land use	Dates present	Group ID
H	**On site**	**Brick and Tile Works**	**1888**	**2094653**
H	**On site**	**Clay Pit**	**1879**	**2114431**
I	**On site**	**Sewage Farm**	**1938 - 1947**	**2084233**
I	**On site**	**Sewage Farm**	**1922**	**2093019**
I	**On site**	**Sewage Farm**	**1922**	**2109430**
J	**On site**	**Unspecified Works**	**1985 - 1991**	**2089492**
J	**On site**	**Unspecified Works**	**1973**	**2118614**
K	**On site**	**Unspecified Depot**	**1985 - 1991**	**2094910**
O	**On site**	**Police Station**	**1985**	**2059684**
P	**On site**	**Unspecified Ground Workings**	**1973**	**2060168**
I	4m W	Corporation Sewage Farm	1938	2045690
R	4m E	Unspecified Tanks	1991	2106818
S	7m W	Unspecified Ground Workings	1938	2088042
R	9m E	Unspecified Tanks	1985	2064063
R	9m E	Unspecified Tanks	1973	2098903
S	10m W	Unspecified Ground Workings	1922 - 1938	2088787
S	10m W	Filter Beds	1922 - 1938	2080653
S	11m W	Filter Beds	1947	2078230
J	13m SW	Unspecified Heap	1973	2066098
J	13m SW	Unspecified Heap	1985 - 1991	2067363
S	14m W	Filter Beds	1938	2099566
S	15m W	Filter Beds	1922 - 1938	2082499
T	15m W	Sedimentation Tanks	1922 - 1947	2084558
T	15m W	Sedimentation Tanks	1938	2065981
T	15m W	Sedimentation Tanks	1922 - 1938	2085977
U	16m NW	Brick Kiln	1879	2071652
U	18m NW	Brick Kiln	1888	2084142
W	22m NW	Unspecified Pit	1938	2096741

ID	Location	Land use	Dates present	Group ID
X	22m W	Unspecified Works	1985 - 1991	2105491
W	25m NW	Unspecified Pit	1951	2113728
W	25m NW	Unspecified Pit	1922 - 1947	2085982
W	25m NW	Unspecified Pit	1922 - 1938	2113013
U	27m NW	Lime Kiln	1888	2122497
11	27m W	Sewage Farm	1900	2116806
Y	30m NW	Unspecified Tanks	1991	2054886
X	36m W	Unspecified Works	1951	2079517
X	36m W	Unspecified Works	1973	2087247
Z	50m W	Sedimentation Tanks	1922 - 1938	2071843
U	52m NW	Lime Kiln	1879	2058745
Z	55m W	Sedimentation Tanks	1938	2072716
Z	56m W	Sedimentation Tanks	1922	2091535
Z	56m W	Unspecified Tank	1938 - 1947	2103766
Z	70m W	Sedimentation Tanks	1922	2100690
Z	70m W	Unspecified Tank	1938 - 1947	2101497
I	74m W	Unspecified Ground Workings	1938	2065991
I	77m W	Unspecified Ground Workings	1922 - 1938	2102029
AA	78m N	Garage	1973	2070405
AA	78m N	Garage	1985 - 1991	2075234
Z	79m W	Unspecified Tank	1938 - 1947	2077769
Z	79m W	Sedimentation Tanks	1922	2119131
AC	93m W	Unspecified Tanks	1985 - 1991	2105220
AC	93m W	Unspecified Tanks	1973	2116020
I	103m W	Filter Beds	1922 - 1947	2065942
AC	104m SW	Unspecified Ground Workings	1938	2060170
AD	104m W	Sedimentation Tanks	1922 - 1938	2085117
16	105m W	Motor Works	1938	2101981

ID	Location	Land use	Dates present	Group ID
18	106m W	Motor Works	1947	2121998
AC	109m SW	Sewage Tanks	1922 - 1947	2072185
AD	109m W	Sedimentation Tanks	1922 - 1947	2094616
AD	109m W	Unspecified Tanks	1938	2054889
I	110m W	Unspecified Tanks	1938	2100856
AC	110m W	Sewage Tanks	1900	2099425
AC	110m SW	Sewage Tanks	1938	2106808
I	112m W	Unspecified Tanks	1922 - 1938	2066595
AC	112m W	Sewage Tanks	1922	2113279
AC	112m W	Sewage Tanks	1947	2116856
AC	113m W	Sewage Tanks	1938	2079173
AC	115m SW	Unspecified Heap	1973	2053772
AC	119m SW	Sewage Tanks	1922 - 1938	2078192
20	125m W	Sedimentation Tanks	1947	2042551
AC	126m NW	Sewage Tanks	1922 - 1938	2098412
AD	128m W	Sedimentation Tanks	1938	2102060
AD	129m W	Sedimentation Tanks	1922	2065051
AD	129m W	Sedimentation Tanks	1947	2080209
AF	139m N	Old Chalk Pit	1879	2105620
AF	141m N	Old Chalk Pit	1888	2103516
AF	145m N	Unspecified Pit	1938	2068714
AF	146m N	Unspecified Ground Workings	1900 - 1922	2084964
AF	146m N	Unspecified Ground Workings	1947	2104418
AF	147m N	Unspecified Pit	1951	2063847
AF	147m N	Unspecified Ground Workings	1985 - 1991	2066885
23	151m W	Motor Works	1938	2077847
AC	152m SW	Sewage Tanks	1922 - 1938	2078191
AH	170m W	Sewage Tanks	1922 - 1947	2083084

ID	Location	Land use	Dates present	Group ID
AH	171m W	Unspecified Ground Workings	1938	2060169
24	176m E	Fire Station	1985 - 1991	2094223
AH	182m W	Sewage Tanks	1922 - 1938	2069427
AH	183m W	Sewage Tanks	1938	2094555
AH	200m W	Sewage Tanks	1922 - 1938	2120043
25	204m SE	Unspecified Tank	1991	2043969
AJ	214m SW	Cuttings	1991	2073163
AJ	214m SW	Cuttings	1985	2087120
AH	221m W	Sewage Tanks	1922 - 1938	2073187
AL	249m W	Unspecified Tanks	1973	2094486
AL	249m W	Unspecified Tanks	1985 - 1991	2095684
31	308m S	Refuse Heap	1951	2072758
AM	310m SE	Unspecified Heap	1938	2053774
AM	317m SE	Unspecified Pit	1922	2098654
AM	318m SE	Unspecified Pit	1951	2104244
AM	326m SE	Unspecified Pit	1900	2083045
AM	327m SE	Old Chalk Pit	1888	2118934
AM	332m SE	Old Chalk Pit	1879	2080578
AN	363m W	Motor Car Engineering Works	1947	2079413
AO	374m NW	Unspecified Pit	1922 - 1951	2093738
AO	375m NW	Old Chalk Pit	1900	2043486
AO	379m NW	Unspecified Pit	1938	2113035
33	391m NW	Filter Bed	1973	2056049
35	421m SW	Hydraulic Engineering Works	1922	2049650
X	422m W	Unspecified Ground Workings	1938	2070154
X	423m W	Unspecified Ground Workings	1922	2066513
AN	438m W	Motor Cars Engineering Works	1922	2084716
AP	439m W	Unspecified Commercial/Industrial	1938	2058218

ID	Location	Land use	Dates present	Group ID
AP	441m W	Motor Car Engineering Works	1922	2095477
AQ	459m SW	Miniature Rifle Range	1951	2104706
38	463m E	Unspecified Pit	1991	2040772
AQ	476m SW	Miniature Rifle Range	1922 - 1947	2120258
AQ	480m SW	Miniature Rifle Range	1938	2096611
AQ	483m SW	Miniature Rifle Range	1922	2073227
39	483m SW	Rifle Range	1900	2056225
AS	486m SW	Cuttings	1985	2107800
AS	491m SW	Cuttings	1991	2103087
AS	492m SW	Cuttings	1938	2112047
AS	492m SW	Cuttings	1951 - 1973	2084869

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**52**

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 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 13**

ID	Location	Land use	Dates present	Group ID
9	**On site**	**Tanks**	**1967**	**348011**
10	**On site**	**Unspecified Tank**	**1967 - 1981**	**356617**
F	**On site**	**Unspecified Tank**	**1993**	**350223**
J	**On site**	**Tanks**	**1993**	**351704**
L	**On site**	**Unspecified Tank**	**1981**	**343024**
L	**On site**	**Tanks**	**1967**	**348012**
N	**On site**	**Unspecified Tank**	**1993**	**351686**

ID	Location	Land use	Dates present	Group ID
N	**On site**	**Unspecified Tank**	**1979**	**358270**
N	**On site**	**Unspecified Tank**	**1979 - 1993**	**358483**
N	**On site**	**Unspecified Tank**	**1979 - 1990**	**358503**
N	**On site**	**Unspecified Tank**	**1990**	**358737**
P	**On site**	**Unspecified Tank**	**1979 - 1993**	**356973**
Q	**On site**	**Tanks**	**1993**	**348040**
Q	**On site**	**Septic Tanks**	**1968 - 1981**	**356668**
F	2m W	Unspecified Tank	1990	343023
J	3m SW	Tanks	1984	355530
R	7m E	Tanks	1976 - 1993	351231
V	16m NW	Tanks	1974 - 1984	353951
V	17m NW	Unspecified Tank	1993	343088
V	20m NW	Tanks	1974 - 1993	355198
Y	28m NW	Tanks	1993	348041
J	29m SW	Tanks	1993	356552
Y	30m NW	Unspecified Tank	1993	355400
Y	30m NW	Unspecified Tank	1996	357020
J	38m SW	Tanks	1984	355756
Z	50m W	Sedimentation Tanks	1924	347538
J	64m SW	Tanks	1993	354382
J	73m SW	Tanks	1984	357672
AB	92m E	Unspecified Tank	1993	343081
AC	93m W	Tanks	1962 - 1993	357771
AC	93m W	Unspecified Tank	1971	343084
AA	93m N	Unspecified Tank	1979	343079
AC	98m W	Tanks	1962 - 1993	351946
AC	99m W	Unspecified Tank	1971	343085
AD	105m W	Sedimentation Tanks	1924	347537

ID	Location	Land use	Dates present	Group ID
17	106m N	Tanks	1971	348010
AC	108m W	Unspecified Tank	1971	343082
AE	109m E	Septic Tanks	1968 - 1981	353741
AE	110m E	Tanks	1993	348039
AC	110m W	Unspecified Tank	1971	343083
AC	110m W	Sewage Tanks	1901 - 1924	349772
AC	113m SW	Sewage Tanks	1901 - 1924	349675
AC	126m NW	Sewage Tanks	1901 - 1924	349905
AH	176m W	Sewage Tanks	1901 - 1924	354602
AL	247m W	Unspecified Tank	1962 - 1993	354394
AL	248m W	Tanks	1961 - 1975	355038
AL	257m W	Unspecified Tank	1962 - 1993	352116
AL	265m W	Unspecified Tank	1962 - 1993	351014
AL	274m W	Unspecified Tank	1962 - 1993	356365
X	382m W	Unspecified Tank	1986 - 1996	353962
AR	481m SW	Unspecified Tank	1996	343067
AR	491m SW	Unspecified Tank	1996	343066

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**35**

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 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 13**

ID	Location	Land use	Dates present	Group ID
6	**On site**	**Electricity Substation**	**1979 - 1993**	**232053**

ID	Location	Land use	Dates present	Group ID
7	**On site**	**Electricity Substation**	**1993**	**224990**
8	**On site**	**Electricity Substation**	**1994**	**224982**
L	**On site**	**Electricity Substation**	**1987 - 1994**	**238613**
M	**On site**	**Electricity Substation**	**1967 - 1994**	**232755**
M	**On site**	**Electricity Substation**	**1981 - 1991**	**238501**
N	**On site**	**Electricity Substation**	**1979 - 1993**	**238313**
O	**On site**	**Electricity Substation**	**1989 - 1993**	**232399**
12	28m SE	Electricity Substation	1967	224981
K	35m W	Electricity Substation	1984 - 1993	238409
B	41m NE	Electricity Substation	1976 - 1993	232415
13	46m NE	Electricity Substation	1989 - 1993	237673
14	59m NW	Electricity Substation	1985 - 1993	233982
AB	92m S	Electricity Substation	1993	224991
15	101m NW	Electricity Substation	1967 - 1994	231580
22	150m S	Electricity Substation	1973 - 1996	230295
AI	196m NW	Electricity Substation	1993	236391
AI	206m NW	Electricity Substation	1985	224979
26	224m W	Electricity Substation	1982 - 1993	233395
27	227m N	Electricity Substation	1994 - 1996	231601
AK	233m NW	Gas Governor	1985	239621
AK	235m NW	Gas Governor	1993	233437
28	240m NE	Electricity Substation	1989	224980
29	278m NW	Electricity Substation	1974 - 1993	239862
30	280m NW	Electricity Substation	1984 - 1990	234081
32	357m N	Electricity Substation	1994 - 1996	231356
X	398m W	Electricity Substation	1986 - 1996	236886
34	419m W	Electricity Substation	1975 - 1993	239690
X	424m SW	Electricity Substation	1986 - 1996	239344

ID	Location	Land use	Dates present	Group ID
36	435m NW	Electricity Substation	1974 - 1993	235381
37	449m N	Electricity Substation	1994 - 1996	229347
X	464m SW	Electricity Substation	1996	238963
X	465m SW	Electricity Substation	1986 - 1996	229123
X	478m SW	Electricity Substation	1986 - 1996	230952
AR	496m SW	Electricity Substation	1996	224992

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m **3**

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 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 13**

ID	Location	Land use	Dates present	Group ID
19	114m NW	Filling Station	1984	3829
21	132m SE	Filling Station	1981 - 1991	4034
AG	149m NW	Filling Station	1979	3831

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m **4**

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 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 13**

ID	Location	Land use	Dates present	Group ID
AA	78m N	Garage	1979	70067
AA	79m N	Garage	1962 - 1967	72251
AA	79m N	Garage	1962	70324
AG	147m NW	Garage	1967	69243

This data is sourced from Ordnance Survey / Groundsure.

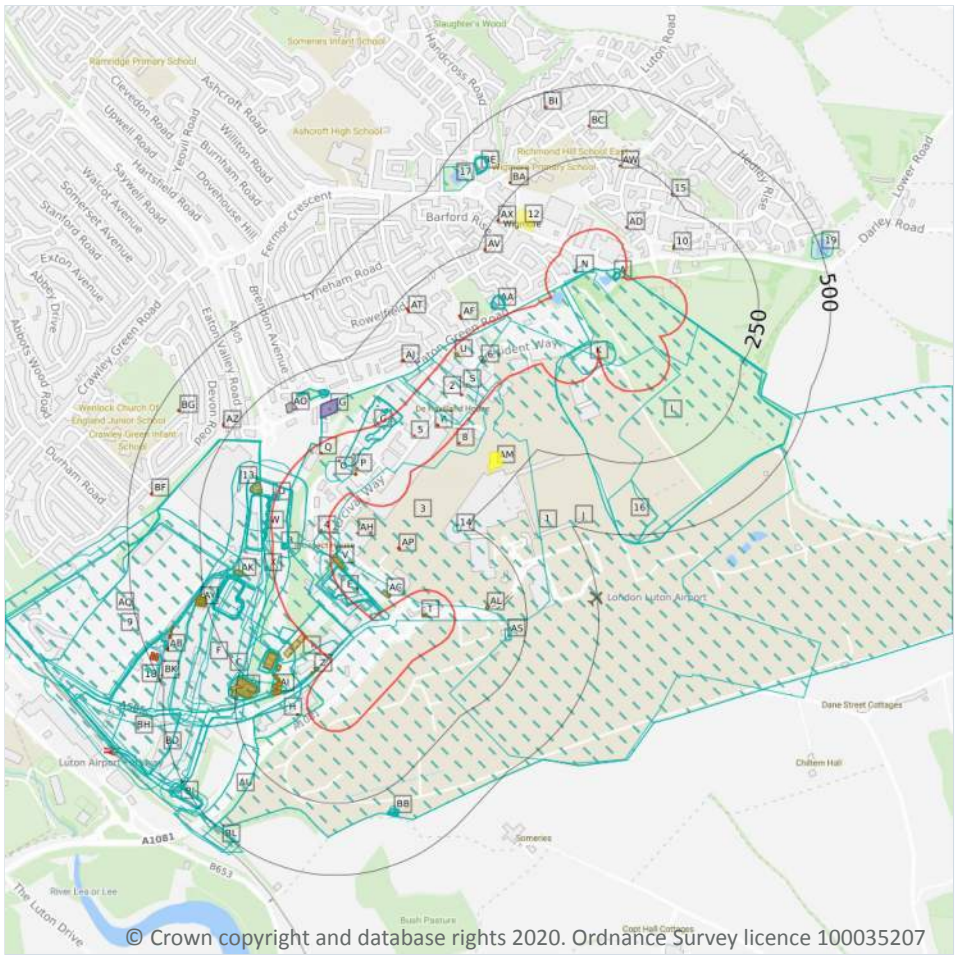
1.6 Historical military land

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



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical petrol stations

Historical garages

2.1 Historical industrial land uses

Records within 500m	269

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 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 25**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Airport**	**1951**	**2088346**
2	**On site**	**Engineering Works**	**1973**	**2059803**
3	**On site**	**Airport**	**1973**	**2080536**

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Pit	1947	2080471
A	On site	Unspecified Pit	1925	2080471
A	On site	Unspecified Pit	1925	2101612
A	On site	Old Gravel Pit	1888	2113794
A	On site	Unspecified Pit	1951	2095864
A	On site	Old Gravel Pit	1899	2113794
A	On site	Old Gravel Pit	1879	2090210
A	On site	Old Gravel Pit	1899	2067460
B	On site	Sludge Pit	1947	2108290
B	On site	Sludge Pit	1922	2108290
B	On site	Sludge Pit	1938	2108290
B	On site	Sludge Pit	1938	2108290
B	On site	Sludge Pit	1922	2108290
B	On site	Sludge Pit	1938	2108290
B	On site	Sludge Pit	1922	2108290
B	On site	Unspecified Tank	1951	2043968
B	On site	Sludge Pit	1938	2108290
C	On site	Sewage Farm	1922	2109430
C	On site	Sewage Farm	1947	2084233
C	On site	Sewage Farm	1938	2084233
C	On site	Sewage Farm	1922	2093019
C	On site	Sewage Farm	1922	2093019
D	On site	Pumping Station	1947	2075017
D	On site	Pumping Station	1922	2075017
D	On site	Pumping Station	1938	2069073
D	On site	Pumping Station	1938	2101396
D	On site	Pumping Station	1922	2101396
D	On site	Pumping Station	1938	2101396

ID	Location	Land Use	Date	Group ID
D	On site	Pumping Station	1922	2101396
D	On site	Pumping Station	1938	2075017
E	On site	Infectious Diseases Hospital	1947	2068392
E	On site	Infectious Diseases Hospital	1922	2101615
E	On site	Infectious Diseases Hospital	1900	2078238
E	On site	Infectious Disease Hospital	1938	2062131
E	On site	Infectious Diseases Hospital	1938	2075790
E	On site	Infectious Diseases Hospital	1922	2097497
E	On site	Infectious Diseases Hospital	1938	2075790
E	On site	Infectious Diseases Hospital	1922	2097497
E	On site	Infectious Diseases Hospital	1951	2068392
E	On site	Infectious Diseases Hospital	1938	2097497
F	On site	Abandoned Airfield	1938	2064746
F	On site	Abandoned Airfield	1938	2064746
G	On site	Brick and Tile Works	1888	2094653
G	On site	Clay Pit	1888	2083056
G	On site	Brick and Tile Works	1888	2094653
G	On site	Clay Pit	1888	2083056
G	On site	Brick and Tile Works	1879	2088412
G	On site	Clay Pit	1879	2114431
G	On site	Brick and Tile Works	1879	2088412
H	On site	Unspecified Depot	1991	2094910
H	On site	Unspecified Depot	1985	2094910
I	On site	Unspecified Works	1991	2089492
I	On site	Unspecified Works	1985	2089492
I	On site	Unspecified Works	1973	2118614
J	On site	Airport	1991	2075273
J	On site	Airport	1985	2075273

ID	Location	Land Use	Date	Group ID
K	**On site**	**Unspecified Pit**	**1991**	**2070559**
K	**On site**	**Unspecified Pit**	**1985**	**2070559**
L	**On site**	**Unspecified Workings**	**1991**	**2068404**
L	**On site**	**Unspecified Workings**	**1985**	**2068404**
L	**On site**	**Refuse Heap**	**1973**	**2110727**
M	**On site**	**Unspecified Ground Workings**	**1985**	**2071001**
M	**On site**	**Unspecified Ground Workings**	**1973**	**2111956**
N	**On site**	**Police Station**	**1985**	**2059684**
O	**On site**	**Unspecified Ground Workings**	**1973**	**2060168**
C	4m W	Corporation Sewage Farm	1938	2045690
V	4m E	Unspecified Tanks	1991	2106818
W	7m W	Unspecified Ground Workings	1938	2088042
V	9m E	Unspecified Tanks	1985	2064063
V	9m E	Unspecified Tanks	1973	2098903
W	10m W	Unspecified Ground Workings	1938	2088787
W	10m W	Unspecified Ground Workings	1922	2088787
W	10m W	Unspecified Ground Workings	1938	2088787
W	10m W	Unspecified Ground Workings	1922	2088787
W	10m W	Filter Beds	1938	2080653
W	11m W	Filter Beds	1947	2078230
W	11m W	Filter Beds	1922	2080653
I	13m SW	Unspecified Heap	1991	2067363
I	13m SW	Unspecified Heap	1985	2067363
I	13m SW	Unspecified Heap	1973	2066098
W	14m W	Filter Beds	1938	2099566
W	15m W	Filter Beds	1938	2082499
W	15m W	Filter Beds	1922	2082499
W	15m W	Filter Beds	1938	2082499

ID	Location	Land Use	Date	Group ID
W	15m W	Filter Beds	1922	2082499
X	15m W	Sedimentation Tanks	1938	2084558
X	15m W	Sedimentation Tanks	1938	2065981
X	15m W	Sedimentation Tanks	1938	2085977
X	15m W	Sedimentation Tanks	1922	2085977
X	15m W	Sedimentation Tanks	1938	2085977
X	15m W	Sedimentation Tanks	1922	2085977
X	16m W	Sedimentation Tanks	1947	2084558
X	16m W	Sedimentation Tanks	1922	2084558
Y	16m NW	Brick Kiln	1879	2071652
Y	16m NW	Brick Kiln	1879	2071652
Y	18m NW	Brick Kiln	1888	2084142
Y	18m NW	Brick Kiln	1888	2084142
AA	22m NW	Unspecified Pit	1938	2096741
AB	22m W	Unspecified Works	1991	2105491
AB	22m W	Unspecified Works	1985	2105491
AA	25m NW	Unspecified Pit	1951	2113728
AA	25m NW	Unspecified Pit	1947	2085982
AA	25m NW	Unspecified Pit	1922	2085982
AA	25m NW	Unspecified Pit	1938	2085982
AA	25m NW	Unspecified Pit	1938	2113013
AA	25m NW	Unspecified Pit	1922	2113013
AA	25m NW	Unspecified Pit	1938	2113013
AA	25m NW	Unspecified Pit	1922	2113013
Y	27m NW	Lime Kiln	1888	2122497
Y	27m NW	Lime Kiln	1888	2122497
7	27m W	Sewage Farm	1900	2116806
AC	30m NW	Unspecified Tanks	1991	2054886

ID	Location	Land Use	Date	Group ID
AB	36m W	Unspecified Works	1951	2079517
AB	36m W	Unspecified Works	1973	2087247
AE	50m W	Sedimentation Tanks	1938	2071843
AE	50m W	Sedimentation Tanks	1922	2071843
AE	50m W	Sedimentation Tanks	1938	2071843
AE	50m W	Sedimentation Tanks	1922	2071843
Y	52m NW	Lime Kiln	1879	2058745
AE	55m W	Sedimentation Tanks	1938	2072716
AE	56m W	Sedimentation Tanks	1922	2091535
AE	56m W	Unspecified Tank	1947	2103766
AE	56m W	Unspecified Tank	1938	2103766
AE	70m W	Sedimentation Tanks	1922	2100690
AE	70m W	Unspecified Tank	1947	2101497
AE	70m W	Unspecified Tank	1938	2101497
C	74m W	Unspecified Ground Workings	1938	2065991
C	77m W	Unspecified Ground Workings	1938	2102029
C	77m W	Unspecified Ground Workings	1922	2102029
C	77m W	Unspecified Ground Workings	1938	2102029
C	77m W	Unspecified Ground Workings	1922	2102029
AG	78m N	Garage	1991	2075234
AG	78m N	Garage	1985	2075234
AG	78m N	Garage	1973	2070405
AE	79m W	Sedimentation Tanks	1922	2119131
AE	79m W	Unspecified Tank	1947	2077769
AE	79m W	Unspecified Tank	1938	2077769
AI	93m W	Unspecified Tanks	1991	2105220
AI	93m W	Unspecified Tanks	1985	2105220
AI	93m W	Unspecified Tanks	1973	2116020

ID	Location	Land Use	Date	Group ID
C	103m W	Filter Beds	1938	2065942
AI	104m SW	Unspecified Ground Workings	1938	2060170
C	104m W	Filter Beds	1947	2065942
C	104m W	Filter Beds	1922	2065942
AK	104m W	Sedimentation Tanks	1938	2085117
AK	104m W	Sedimentation Tanks	1922	2085117
AK	104m W	Sedimentation Tanks	1938	2085117
AK	104m W	Sedimentation Tanks	1922	2085117
9	105m W	Motor Works	1938	2101981
11	106m W	Motor Works	1947	2121998
AI	109m SW	Sewage Tanks	1947	2072185
AI	109m SW	Sewage Tanks	1922	2072185
AK	109m W	Sedimentation Tanks	1938	2094616
AK	109m W	Unspecified Tanks	1938	2054889
C	110m W	Unspecified Tanks	1938	2100856
AK	110m W	Sedimentation Tanks	1947	2094616
AK	110m W	Sedimentation Tanks	1922	2094616
AI	110m W	Sewage Tanks	1900	2099425
AI	110m SW	Sewage Tanks	1938	2106808
C	112m W	Unspecified Tanks	1938	2066595
C	112m W	Unspecified Tanks	1922	2066595
C	112m W	Unspecified Tanks	1938	2066595
C	112m W	Unspecified Tanks	1922	2066595
AI	112m W	Sewage Tanks	1947	2116856
AI	112m W	Sewage Tanks	1922	2113279
AI	113m SW	Sewage Tanks	1938	2072185
AI	113m W	Sewage Tanks	1938	2079173
AI	115m SW	Unspecified Heap	1973	2053772

ID	Location	Land Use	Date	Group ID
AI	119m SW	Sewage Tanks	1938	2078192
AI	119m SW	Sewage Tanks	1922	2078192
AI	119m SW	Sewage Tanks	1938	2078192
AI	119m SW	Sewage Tanks	1922	2078192
13	125m W	Sedimentation Tanks	1947	2042551
AI	126m NW	Sewage Tanks	1938	2098412
AI	126m NW	Sewage Tanks	1922	2098412
AI	126m NW	Sewage Tanks	1938	2098412
AI	126m NW	Sewage Tanks	1922	2098412
AK	128m W	Sedimentation Tanks	1938	2102060
AK	129m W	Sedimentation Tanks	1947	2080209
AK	129m W	Sedimentation Tanks	1922	2065051
AN	139m N	Old Chalk Pit	1879	2105620
AN	141m N	Old Chalk Pit	1888	2103516
AN	141m N	Old Chalk Pit	1888	2103516
AN	145m N	Unspecified Pit	1938	2068714
AN	146m N	Unspecified Ground Workings	1947	2104418
AN	146m N	Unspecified Ground Workings	1922	2084964
AN	146m N	Unspecified Ground Workings	1900	2084964
AN	147m N	Unspecified Pit	1951	2063847
AN	147m N	Unspecified Ground Workings	1985	2066885
AN	150m N	Unspecified Ground Workings	1991	2066885
AQ	151m W	Motor Works	1938	2077847
AQ	151m W	Motor Works	1938	2077847
AQ	151m W	Motor Works	1938	2077847
AI	152m SW	Sewage Tanks	1938	2078191
AI	152m SW	Sewage Tanks	1922	2078191
AI	152m SW	Sewage Tanks	1938	2078191

ID	Location	Land Use	Date	Group ID
AI	152m SW	Sewage Tanks	1922	2078191
AR	170m W	Sewage Tanks	1938	2083084
AR	171m W	Sewage Tanks	1947	2083084
AR	171m W	Sewage Tanks	1922	2083084
AR	171m W	Unspecified Ground Workings	1938	2060169
AS	176m E	Fire Station	1991	2094223
AS	176m E	Fire Station	1985	2094223
AR	182m W	Sewage Tanks	1938	2069427
AR	182m W	Sewage Tanks	1922	2069427
AR	182m W	Sewage Tanks	1938	2069427
AR	182m W	Sewage Tanks	1922	2069427
AR	183m W	Sewage Tanks	1938	2094555
AR	200m W	Sewage Tanks	1938	2120043
AR	200m W	Sewage Tanks	1922	2120043
AR	200m W	Sewage Tanks	1938	2120043
AR	200m W	Sewage Tanks	1922	2120043
14	204m SE	Unspecified Tank	1991	2043969
AU	214m SW	Cuttings	1991	2073163
AU	214m SW	Cuttings	1985	2087120
AR	221m W	Sewage Tanks	1938	2073187
AR	221m W	Sewage Tanks	1922	2073187
AR	221m W	Sewage Tanks	1938	2073187
AR	221m W	Sewage Tanks	1922	2073187
AY	249m W	Unspecified Tanks	1991	2095684
AY	249m W	Unspecified Tanks	1985	2095684
AY	249m W	Unspecified Tanks	1973	2094486
16	308m S	Refuse Heap	1951	2072758
BB	310m SE	Unspecified Heap	1938	2053774

ID	Location	Land Use	Date	Group ID
BB	317m SE	Unspecified Pit	1922	2098654
BB	317m SE	Unspecified Pit	1922	2098654
BB	318m SE	Unspecified Pit	1951	2104244
BB	326m SE	Unspecified Pit	1900	2083045
BB	327m SE	Old Chalk Pit	1888	2118934
BB	327m SE	Old Chalk Pit	1888	2118934
BB	332m SE	Old Chalk Pit	1879	2080578
BD	363m W	Motor Car Engineering Works	1947	2079413
BE	374m NW	Unspecified Pit	1951	2093738
BE	375m NW	Old Chalk Pit	1900	2043486
BE	375m NW	Unspecified Pit	1938	2093738
BE	375m NW	Unspecified Pit	1938	2093738
BE	375m NW	Unspecified Pit	1922	2093738
BE	375m NW	Unspecified Pit	1938	2093738
BE	375m NW	Unspecified Pit	1922	2093738
BE	376m NW	Unspecified Pit	1947	2093738
BE	376m NW	Unspecified Pit	1922	2093738
BE	379m NW	Unspecified Pit	1938	2113035
17	391m NW	Filter Bed	1973	2056049
18	421m SW	Hydraulic Engineering Works	1922	2049650
AB	422m W	Unspecified Ground Workings	1938	2070154
AB	423m W	Unspecified Ground Workings	1922	2066513
AB	423m W	Unspecified Ground Workings	1922	2066513
BD	438m W	Motor Cars Engineering Works	1922	2084716
BD	438m W	Motor Cars Engineering Works	1922	2084716
BH	439m W	Unspecified Commercial/Industrial	1938	2058218
BH	441m W	Motor Car Engineering Works	1922	2095477
BJ	459m SW	Miniature Rifle Range	1951	2104706

ID	Location	Land Use	Date	Group ID
19	463m E	Unspecified Pit	1991	2040772
BJ	476m SW	Miniature Rifle Range	1938	2120258
BJ	480m SW	Miniature Rifle Range	1938	2096611
BJ	481m SW	Miniature Rifle Range	1947	2120258
BJ	481m SW	Miniature Rifle Range	1922	2120258
BJ	483m SW	Miniature Rifle Range	1938	2120258
BJ	483m SW	Miniature Rifle Range	1922	2073227
BJ	483m SW	Miniature Rifle Range	1938	2120258
BJ	483m SW	Miniature Rifle Range	1922	2073227
20	483m SW	Rifle Range	1900	2056225
BL	486m SW	Cuttings	1985	2107800
BL	491m SW	Cuttings	1991	2103087
BM	492m SW	Cuttings	1938	2112047
BM	492m SW	Cuttings	1973	2084869

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m **84**

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 25**

ID	Location	Land Use	Date	Group ID
6	**On site**	**Tanks**	**1967**	**348011**
I	**On site**	**Tanks**	**1993**	**351704**
K	**On site**	**Unspecified Tank**	**1993**	**350223**
K	**On site**	**Unspecified Tank**	**1993**	**350223**
O	**On site**	**Unspecified Tank**	**1979**	**356973**
O	**On site**	**Unspecified Tank**	**1990**	**356973**

ID	Location	Land Use	Date	Group ID
O	**On site**	**Unspecified Tank**	**1993**	**356973**
P	**On site**	**Unspecified Tank**	**1979**	**358483**
P	**On site**	**Unspecified Tank**	**1979**	**358270**
P	**On site**	**Unspecified Tank**	**1979**	**358503**
P	**On site**	**Unspecified Tank**	**1990**	**358503**
P	**On site**	**Unspecified Tank**	**1990**	**358483**
P	**On site**	**Unspecified Tank**	**1990**	**358737**
P	**On site**	**Unspecified Tank**	**1993**	**351686**
P	**On site**	**Unspecified Tank**	**1993**	**358483**
S	**On site**	**Tanks**	**1967**	**348012**
S	**On site**	**Unspecified Tank**	**1981**	**343024**
T	**On site**	**Tanks**	**1993**	**348040**
T	**On site**	**Septic Tanks**	**1968**	**356668**
T	**On site**	**Septic Tanks**	**1973**	**356668**
T	**On site**	**Septic Tanks**	**1981**	**356668**
U	**On site**	**Unspecified Tank**	**1967**	**356617**
U	**On site**	**Unspecified Tank**	**1981**	**356617**
K	2m W	Unspecified Tank	1990	343023
I	3m SW	Tanks	1984	355530
V	7m E	Tanks	1993	351231
V	8m E	Tanks	1976	351231
Z	16m NW	Tanks	1984	353951
Z	16m NW	Tanks	1974	353951
Z	17m NW	Unspecified Tank	1993	343088
Z	20m NW	Tanks	1984	355198
Z	20m NW	Tanks	1993	355198
Z	20m NW	Tanks	1974	355198
AC	28m NW	Tanks	1993	348041

ID	Location	Land Use	Date	Group ID
I	29m SW	Tanks	1993	356552
AC	30m NW	Unspecified Tank	1996	357020
AC	30m NW	Unspecified Tank	1993	355400
AC	30m NW	Unspecified Tank	1996	357020
I	38m SW	Tanks	1984	355756
AE	50m W	Sedimentation Tanks	1924	347538
I	64m SW	Tanks	1993	354382
I	73m SW	Tanks	1984	357672
AH	92m E	Unspecified Tank	1993	343081
AI	93m W	Tanks	1984	357771
AI	93m W	Tanks	1993	357771
AI	93m W	Unspecified Tank	1971	343084
AG	93m N	Unspecified Tank	1979	343079
AI	94m W	Tanks	1962	357771
AI	94m W	Tanks	1974	357771
AI	98m W	Tanks	1984	351946
AI	98m W	Tanks	1993	351946
AI	99m W	Unspecified Tank	1971	343085
AI	99m W	Tanks	1962	351946
AI	99m W	Tanks	1974	351946
AK	105m W	Sedimentation Tanks	1924	347537
10	106m N	Tanks	1971	348010
AI	108m W	Unspecified Tank	1971	343082
AL	109m E	Septic Tanks	1981	353741
AL	110m E	Tanks	1993	348039
AL	110m E	Septic Tanks	1968	353741
AL	110m E	Septic Tanks	1973	353741
AI	110m W	Unspecified Tank	1971	343083

ID	Location	Land Use	Date	Group ID
AI	110m W	Sewage Tanks	1901	349772
AI	110m W	Sewage Tanks	1924	349772
AI	113m SW	Sewage Tanks	1901	349675
AI	113m SW	Sewage Tanks	1924	349675
AI	126m NW	Sewage Tanks	1901	349905
AI	126m NW	Sewage Tanks	1924	349905
AR	176m W	Sewage Tanks	1924	354602
AR	177m W	Sewage Tanks	1901	354602
AY	247m W	Unspecified Tank	1962	354394
AY	248m W	Tanks	1975	355038
AY	248m W	Tanks	1961	355038
AY	248m W	Unspecified Tank	1993	354394
AY	257m W	Unspecified Tank	1962	352116
AY	258m W	Unspecified Tank	1993	352116
AY	265m W	Unspecified Tank	1962	351014
AY	265m W	Unspecified Tank	1993	351014
AY	274m W	Unspecified Tank	1962	356365
AY	275m W	Unspecified Tank	1993	356365
AB	382m W	Unspecified Tank	1996	353962
AB	383m W	Unspecified Tank	1986	353962
BK	481m SW	Unspecified Tank	1996	343067
BK	491m SW	Unspecified Tank	1996	343066

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**80**

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 25**

ID	Location	Land Use	Date	Group ID
4	**On site**	**Electricity Substation**	**1993**	**224990**
5	**On site**	**Electricity Substation**	**1994**	**224982**
N	**On site**	**Electricity Substation**	**1989**	**232399**
N	**On site**	**Electricity Substation**	**1993**	**232399**
P	**On site**	**Electricity Substation**	**1979**	**238313**
P	**On site**	**Electricity Substation**	**1990**	**238313**
P	**On site**	**Electricity Substation**	**1993**	**238313**
Q	**On site**	**Electricity Substation**	**1979**	**232053**
Q	**On site**	**Electricity Substation**	**1990**	**232053**
Q	**On site**	**Electricity Substation**	**1993**	**232053**
R	**On site**	**Electricity Substation**	**1967**	**232755**
R	**On site**	**Electricity Substation**	**1981**	**238501**
R	**On site**	**Electricity Substation**	**1987**	**238501**
R	**On site**	**Electricity Substation**	**1991**	**238501**
R	**On site**	**Electricity Substation**	**1994**	**232755**
S	**On site**	**Electricity Substation**	**1987**	**238613**
S	**On site**	**Electricity Substation**	**1991**	**238613**
S	**On site**	**Electricity Substation**	**1994**	**238613**
8	28m SE	Electricity Substation	1967	224981
H	35m W	Electricity Substation	1984	238409
H	36m W	Electricity Substation	1993	238409
E	41m NE	Electricity Substation	1993	232415
E	42m NE	Electricity Substation	1976	232415
AD	46m NE	Electricity Substation	1993	237673
AD	46m NE	Electricity Substation	1989	237673
AF	59m NW	Electricity Substation	1993	233982
AF	59m NW	Electricity Substation	1993	233982

ID	Location	Land Use	Date	Group ID
AF	60m NW	Electricity Substation	1985	233982
AH	92m S	Electricity Substation	1993	224991
AJ	101m NW	Electricity Substation	1981	231580
AJ	101m NW	Electricity Substation	1987	231580
AJ	101m NW	Electricity Substation	1991	231580
AJ	101m NW	Electricity Substation	1987	231580
AJ	101m NW	Electricity Substation	1967	231580
AJ	103m NW	Electricity Substation	1994	231580
AP	150m S	Electricity Substation	1996	230295
AP	150m S	Electricity Substation	1993	230295
AP	150m S	Electricity Substation	1996	230295
AP	152m S	Electricity Substation	1981	230295
AP	152m S	Electricity Substation	1973	230295
AT	196m NW	Electricity Substation	1993	236391
AT	196m NW	Electricity Substation	1993	236391
AT	206m NW	Electricity Substation	1985	224979
AV	224m W	Electricity Substation	1985	233395
AV	224m W	Electricity Substation	1993	233395
AV	224m W	Electricity Substation	1993	233395
AV	225m W	Electricity Substation	1984	233395
AV	225m W	Electricity Substation	1982	233395
AV	225m W	Electricity Substation	1982	233395
AW	227m N	Electricity Substation	1996	231601
AW	227m N	Electricity Substation	1994	231601
AX	233m NW	Gas Governor	1985	239621
AX	235m NW	Gas Governor	1993	233437
AX	235m NW	Gas Governor	1993	233437
15	240m NE	Electricity Substation	1989	224980

ID	Location	Land Use	Date	Group ID
AZ	278m NW	Electricity Substation	1974	239862
AZ	278m NW	Electricity Substation	1993	239862
BA	280m NW	Electricity Substation	1990	234081
BA	281m NW	Electricity Substation	1984	234081
BC	357m N	Electricity Substation	1996	231356
BC	357m N	Electricity Substation	1994	231356
AB	398m W	Electricity Substation	1996	236886
AB	399m W	Electricity Substation	1986	236886
BF	419m W	Electricity Substation	1993	239690
BF	419m W	Electricity Substation	1975	239690
AB	424m SW	Electricity Substation	1996	239344
AB	424m SW	Electricity Substation	1986	239344
BG	435m NW	Electricity Substation	1993	235381
BG	435m NW	Electricity Substation	1974	235381
BI	449m N	Electricity Substation	1996	229347
BI	449m N	Electricity Substation	1994	229347
AB	464m SW	Electricity Substation	1996	238963
AB	465m SW	Electricity Substation	1986	229123
AB	471m SW	Electricity Substation	1996	229123
AB	472m SW	Electricity Substation	1986	229123
AB	478m SW	Electricity Substation	1996	230952
AB	479m SW	Electricity Substation	1986	230952
AB	484m SW	Electricity Substation	1996	230952
AB	484m SW	Electricity Substation	1986	230952
BK	496m SW	Electricity Substation	1996	224992

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	5

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'.

Features are displayed on the Past land use - un-grouped map on **page 25**

ID	Location	Land Use	Date	Group ID
12	114m NW	Filling Station	1984	3829
AM	132m SE	Filling Station	1981	4034
AM	132m SE	Filling Station	1987	4034
AM	132m SE	Filling Station	1991	4034
AO	149m NW	Filling Station	1979	3831

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	5

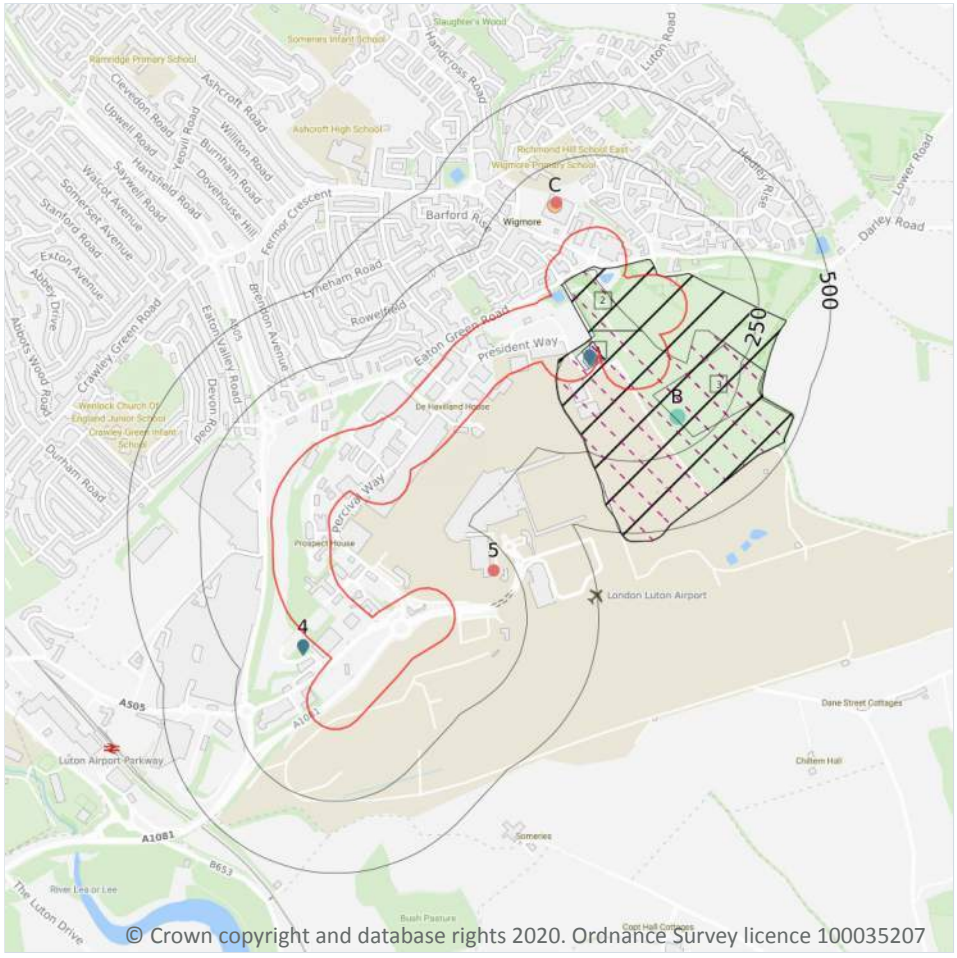
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 25**

ID	Location	Land Use	Date	Group ID
AG	78m N	Garage	1979	70067
AG	79m N	Garage	1967	72251
AG	79m N	Garage	1962	72251
AG	79m N	Garage	1962	70324
AO	147m NW	Garage	1967	69243

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Historical landfill (BGS)

Historical landfill (LA/OS)

Historical waste sites

Licensed waste sites

Waste exemptions

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	1

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.

Features are displayed on the Waste and landfill map on **page 43**

ID	Location	Address	BGS Number	Risk	Waste Type
B	138m SE	Town Refuse Tip, Eaton Grn Rd, Luton, Beds	1251	Risk to major aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	**5**

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

Features are displayed on the Waste and landfill map on **page 43**

ID	Location	Site address	Source	Data type
2	**On site**	**Refuse Tip**	**1971 mapping**	**Polygon**
A	**On site**	**Public Refuse Tip**	**1990 mapping**	**Polygon**
A	**On site**	**Public Refuse Tip**	**1993 mapping**	**Polygon**
B	**On site**	**Refuse Tip**	**1971 mapping**	**Polygon**
3	29m SE	Landfill Site	1990 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	**1**

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 43**

ID	Location	Details		
1	**On site**	**Site Address: Luton Airport, Eaton Green Road, Luton, Bedfordshire** **Licence Holder Address: -**	**Waste Licence: -** **Site Reference: 7/1976, 32/1993** **Waste Type: Inert, Industrial, Commercial, Household, Liquid sludge** **Environmental Permitting Regulations (Waste) Reference: -** **Licence Issue: -** **Licence Surrender: -**	**Operator: Luton County Borough Council** **Licence Holder: Luton Borough Council** **First Recorded 01/01/1937** **Last Recorded: 01/01/1978**

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

3.5 Historical waste sites

Records within 500m	**1**

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

Features are displayed on the Waste and landfill map on **page 43**

ID	Location	Address	Further Details	Date
C	91m NW	Site Address: Asda Stores Ltd,Wigmore Lane, Wigmore Park Centre, LUTON, Bedfordshire, LU2 9TA	Type of Site: Recycling Area Planning application reference: 09/00213/FUL Description: Scheme comprises installation of 2 security barriers and relocation of recycling area and trolley bay. An application (ref: 09/00213/FUL) for detailed planning permission was granted by Luton B.C. A detailed planning application has been granted. Data source: Historic Planning Application Data Type: Point	02/09/2009

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

3.6 Licensed waste sites

Records within 500m	**6**

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

Features are displayed on the Waste and landfill map on **page 43**

ID	Location	Details		
A	**On site**	**Site Name: Luton Tidy Tip, Eaton Green Road Ca Site** **Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB** **Correspondence Address: Waste Recycling Group, Sutton Courtenay Lanfill Site, Appleford Sidings, Abingdon, Oxon, OX14 4PW**	**Type of Site: Household, Commercial & Industrial Waste T Stn** **Size: 25000 tonnes** **Environmental Permitting Regulations (Waste) Licence Number: WAS009** **EPR reference: -** **Operator: Waste Recycling Limited** **Waste Management licence No: 80489** **Annual Tonnage: 0**	**Issue Date: 01/04/1993** **Effective Date: 30/04/2004** **Modified:: 31/05/2001** **Surrendered Date: -** **Expiry Date: -** **Cancelled Date: -** **Status: Transferred**

ID	Location	Details		
A	On site	Site Name: Luton Tidy Tip, Eaton Green Road Ca Site Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Correspondence Address: Waste Recycling Group, Sutton Courtenay Lanfill Site, Appleford Sidings, Abingdon, Oxon, OX14 4PW	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: - Operator: Waste Recycling Ltd Waste Management licence No: 80489 Annual Tonnage: 0	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified:: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
A	On site	Site Name: Luton Tidy Tip, Eaton Green Road Ca Site Site Address: Luton Tidy Tip, CA Site, Eaton Green Road, Luton, Beds, LU2 9JB Correspondence Address: Mr R Taafe T/A C A Management Services, Waste Management Div, Central Depot, Kingsway, Luton, Beds, LU4 8AU	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LUT006 EPR reference: - Operator: Luton Borough Council Waste Management licence No: 80489 Annual Tonnage: 0	Issue Date: 01/04/1993 Effective Date: 31/05/2001 Modified:: 31/05/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	On site	Site Name: Eaton Green Civic Amenity Site Site Address: Land/ Premises At, Eaton Green Road, Luton, Bedfordshire, LU2 9NW Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: EA/EPR/XP3597NS/V002 Operator: Waste Recycling Ltd Waste Management licence No: 80489 Annual Tonnage: 24999	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified:: 07/12/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	On site	Site Name: Eaton Green Household Waste Recycling Centre Site Address: Eaton Green H W R C, Eaton Green Road, Luton, Bedfordshire, LU2 9HB Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WAS009 EPR reference: EA/EPR/XP3597NS/V004 Operator: F C C Recycling (U K) Limited Waste Management licence No: 80489 Annual Tonnage: 24999	Issue Date: 01/04/1993 Effective Date: 30/04/2004 Modified:: 27/09/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

ID	Location	Details		
4	36m SW	Site Name: Vauxhall Airport Way (Kimpton Lane) Site Address: Andy Ronald, Central Services, Kimpton Road, Luton, Bedfordshire, LU2 0TY Correspondence Address: -	Type of Site: In-House Storage Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VAU001 EPR reference: EA/EPR/LP3197NX/V003 Operator: Vauxhall Motors Ltd Waste Management licence No: 80459 Annual Tonnage: 75000	Issue Date: 22/04/1981 Effective Date: - Modified:: 30/06/1997 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC

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

3.7 Waste exemptions

Records within 500m	**2**

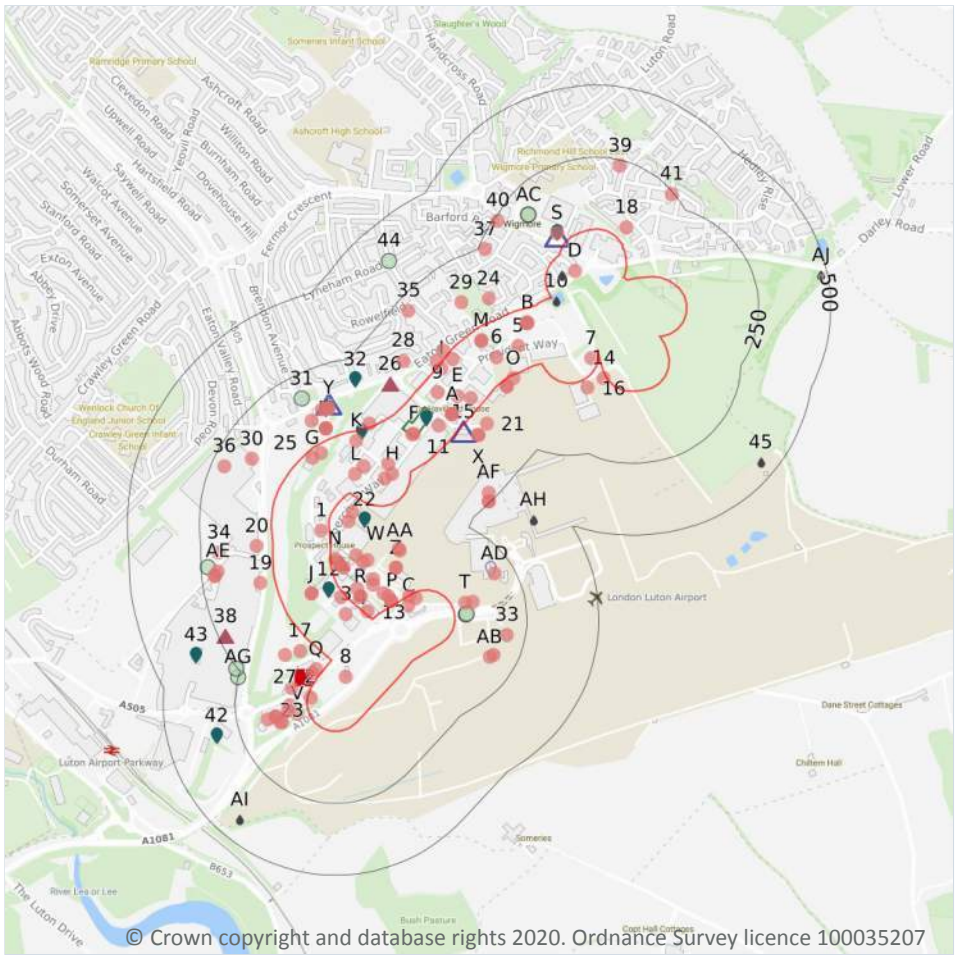
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 43**

ID	Location	Site	Reference	Category	Sub-Category	Description
C	122m NW	Asda Luton Wigmore Lane LUTON LU2 9TA	EPR/JE5856JC/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
5	183m NE	London Luton Airport Hanger 24 Luton LU2 9LY	EPR/WF0602GS/A001	Treating waste exemption	Non-Agricultural Waste Only	Crushing waste fluorescent tubes

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

- Recent industrial land uses
- Current or recent petrol stations
- Control of Major Accident Hazards
- Regulated explosive sites
- Hazardous substance storage/usage
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 1 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	120

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 48**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Electricity Sub Station**	**Bedfordshire, LU2**	**Electrical Features**	**Infrastructure and Facilities**
2	**On site**	**Depot**	**Bedfordshire, LU2**	**Container and Storage**	**Transport, Storage and Delivery**
3	**On site**	**Electricity Sub Station**	**Bedfordshire, LU2**	**Electrical Features**	**Infrastructure and Facilities**

ID	Location	Company	Address	Activity	Category
4	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
5	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
6	On site	Mast	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
7	On site	Recycling Centre	Bedfordshire, LU2	Recycling Centres	Infrastructure and Facilities
8	On site	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
9	On site	David Berryman	Unit B Airport Executive Park, President Way, Luton, Bedfordshire, LU2 9NY	Non Alcoholic Drinks	Foodstuffs
11	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
A	On site	First Class Cars	Kensal House, President Way, Luton, Bedfordshire, LU2 9NL	Vehicle Hire and Rental	Hire Services
A	On site	A E M	De Havilland House, President Way, Luton, Bedfordshire, LU2 9NL	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
A	On site	Kensal Handling System Ltd	Kensal House, President Way, Luton, Bedfordshire, LU2 9NR	Lifting and Handling Equipment	Industrial Products
B	On site	Europcar	Car Hire Centre Building 250, Luton Airport President Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY	Vehicle Hire and Rental	Hire Services
B	On site	Enterprise Rent-A-Car	Car Rental Airport, President Way, Luton, Bedfordshire, LU2 9NL	Vehicle Hire and Rental	Hire Services
B	On site	Hertz Car Hire	Airport Building 250 President Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY	Vehicle Hire and Rental	Hire Services
C	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
C	On site	Pylon	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
C	On site	Mast (Telecommunication)	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
D	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
E	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
E	On site	Dot Group International	Unit 2, Prince Way, Luton, Bedfordshire, LU2 9PD	Office and Shop Equipment	Industrial Products
F	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
F	On site	G K N Aerospace	Percival Way, London Luton Airport, Luton, Bedfordshire, LU2 9PQ	Aeroplanes	Industrial Products
G	On site	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features
G	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
H	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
H	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
H	On site	Applus UK Ltd	Building 27, Percival Way, London Luton Airport, Luton, Bedfordshire, LU2 9PA	Aviation Engineers	Engineering Services
I	On site	Airport	Bedfordshire, LU2	Airports and Landing Strips	Air
I	On site	Air Cargo & Container Services Ltd	Unit H, President Way, Luton, Bedfordshire, LU2 9NL	Distribution and Haulage	Transport, Storage and Delivery
J	On site	The Charter Company	Essex House, Proctor Way, Luton, Bedfordshire, LU2 9PE	Aircraft Charters	Contract Services
J	On site	Ambrion Aviation	Essex House, Proctor Way, Luton, Bedfordshire, LU2 9PE	Airlines and Airline Services	Transport, Storage and Delivery
K	On site	Menzies Aviation	Provost Way, London Luton Airport, Luton, Bedfordshire, LU2 9PB	Aeroplanes	Industrial Products
L	On site	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
L	On site	Alpha LSG	Provost Way, London Luton Airport, Luton, Bedfordshire, LU2 9PB	Aeroplanes	Industrial Products
M	On site	T C R	Unit M Airport Executive Park, President Way, Luton, Bedfordshire, LU2 9NY	Aviation Engineers	Engineering Services

ID	Location	Company	Address	Activity	Category
M	**On site**	**Ssangyong UK Motor Ltd**	**Unit D-E Airport Executive Park, President Way, Luton, Bedfordshire, LU2 9NY**	**New Vehicles**	**Motoring**
13	10m NE	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
14	10m SW	Mast (Telecommunication)	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
O	11m S	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
K	13m NW	Chimney	Bedfordshire, LU2	Chimneys	Industrial Features
N	15m E	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
I	16m NW	Moog Fernau Ltd	Unit C Airport Executive Park, President Way, Luton, Bedfordshire, LU2 9NY	Aviation Engineers	Engineering Services
P	16m NW	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
P	16m NW	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
O	21m SE	Harrods Aviation	Hangar 129, President Way, Luton, Bedfordshire, LU2 9NW	Aeroplanes	Industrial Products
I	21m NW	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
O	22m SE	Pendley Aviation	Hangar 129, President Way, Luton, Bedfordshire, LU2 9NW	Aircraft Charters	Contract Services
Q	23m NW	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
Q	24m NW	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
N	27m E	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
16	30m S	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
R	32m NE	Sky Airport Transfer	Prudence Place, Luton, Bedfordshire, LU2 9PE	Airlines and Airline Services	Transport, Storage and Delivery
N	35m E	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
R	35m NE	Sixt	Prudence Place, Proctor Way, Luton, Bedfordshire, LU2 9PE	Vehicle Hire and Rental	Hire Services
P	35m NW	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
U	39m NW	Land Rover Service Centres	Eaton Green Road, Luton, Bedfordshire, LU2 9LD	Vehicle Repair, Testing and Servicing	Repair and Servicing
U	39m NW	Ford Approved Service Centres	Eaton Green Road, Luton, Bedfordshire, LU2 9LD	Vehicle Repair, Testing and Servicing	Repair and Servicing
U	39m NW	Cougar Accident Repair Centre	Eaton Green Road, Luton, Bedfordshire, LU2 9LD	Vehicle Repair, Testing and Servicing	Repair and Servicing
V	40m W	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
N	41m E	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
S	44m NW	Asda Petrol	Wigmore Hall Shopping Centre, Wigmore Lane, Luton, Bedfordshire, LU2 9TA	Petrol and Fuel Stations	Road and Rail
R	46m NE	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
T	46m E	Radar Tower	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
17	48m SW	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features
18	49m NE	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
W	50m SW	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
19	52m W	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features
P	53m NW	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
20	56m W	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features
21	57m SE	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
V	61m W	Bell Packaging	Unit 8 Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Packaging	Industrial Products
23	62m W	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features

ID	Location	Company	Address	Activity	Category
X	63m SE	Landmark Aviation	Britannia House 135, Frank Lester Way, London Luton Airport, Luton, Bedfordshire, LU2 9NQ	Aircraft Charters	Contract Services
X	63m SE	Signature Flight Support	Britannia House 135, Frank Lester Way, London Luton Airport, Luton, Bedfordshire, LU2 9NQ	Aeroplanes	Industrial Products
W	65m SE	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
V	70m W	Gledhill Building Products	Unit 7 Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
T	74m E	Pylon	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
24	78m NW	A P F Ltd	33, Barnston Close, Luton, Bedfordshire, LU2 9RZ	Distribution and Haulage	Transport, Storage and Delivery
25	85m NW	Just Click 4 Chauffeurs	The Coach Yard, Eaton Green Road, Luton, Bedfordshire, LU2 9HD	Vehicle Hire and Rental	Hire Services
N	87m E	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
P	94m NE	Depot	Bedfordshire, LU2	Container and Storage	Transport, Storage and Delivery
27	96m SW	Travelling Crane	Bedfordshire, LU2	Travelling Cranes and Gantries	Industrial Features
V	99m W	Europcar	Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Vehicle Hire and Rental	Hire Services
Y	101m N	Shell Car Wash	Petrol Filling Station 91, Eaton Green Road, Luton, Bedfordshire, LU2 9HD	Vehicle Cleaning Services	Personal, Consumer and Other Services
Y	101m N	Shell Service Station	Petrol Filling Station 91, Eaton Green Road, Luton, Bedfordshire, LU2 9HD	Petrol and Fuel Stations	Road and Rail
Y	103m N	Shell Luton Airport	Eaton Green Road, Luton, Bedfordshire, LU2 9HD	Petrol and Fuel Stations	Road and Rail
Y	103m N	Shell Luton Airport	Eaton Green Road, Luton, Bedfordshire, LU2 9HD	Vehicle Cleaning Services	Personal, Consumer and Other Services
28	105m NW	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
V	105m W	Barratt Industrial Park	Bedfordshire, LU2	Business Parks and Industrial Estates	Industrial Features

ID	Location	Company	Address	Activity	Category
29	106m NW	Mast (Telecommunication)	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
Z	106m NW	Speedbird Air Ltd	Signature Flight Support Terminal 1, Percival Way, London Luton Airport, Luton, Bedfordshire, LU2 9PA	Aircraft Charters	Contract Services
Z	106m NW	Signature Flight Support	Signature Flight Support Terminal 1, Percival Way, London Luton Airport, Luton, Bedfordshire, LU2 9PA	Airlines and Airline Services	Transport, Storage and Delivery
P	109m NE	World Fuel Services	Percival Way, London Luton Airport, Luton, Bedfordshire, LU2 9PA	Aeroplanes	Industrial Products
N	112m E	Pylon	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
V	115m W	Agility Logistics	Unit 3 Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Distribution and Haulage	Transport, Storage and Delivery
V	115m W	I C W Powermode	Unit 2 Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Electrical Production and Manipulation Equipment	Industrial Products
N	129m E	Mast (Telecommunication)	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
30	135m NW	Mast (Telecommunication)	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
V	145m W	I C W Powermode	Unit 2 Barratt Industrial Park, Airport Way, Luton, Bedfordshire, LU2 9NH	Electrical Production and Manipulation Equipment	Industrial Products
AA	155m N	Pylon	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
AA	158m S	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
AB	158m SE	Masts	Bedfordshire, LU2	Telecommunications Features	Infrastructure and Facilities
AB	167m SE	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
AD	183m NE	Luton Airport Taxis Ltd	Navigation House, Airport Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY	Airlines and Airline Services	Transport, Storage and Delivery
33	187m E	Luton Airport Fire Station	Luton Airport, Airport Way, Luton, Bedfordshire, LU2	Fire Brigade Stations	Central and Local Government

ID	Location	Company	Address	Activity	Category
34	187m W	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features
AE	192m W	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
35	202m NW	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
AE	203m W	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
AE	205m W	Tank	Bedfordshire, LU2	Tanks (Generic)	Industrial Features
36	206m NW	Works	Bedfordshire, LU2	Unspecified Works Or Factories	Industrial Features
AF	222m SE	Avis Rent A Car	Presidents Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY	Vehicle Hire and Rental	Hire Services
37	227m W	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
39	231m N	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
40	237m NW	Gas Governor Station	Bedfordshire, LU2	Gas Features	Infrastructure and Facilities
41	244m NE	Electricity Sub Station	Bedfordshire, LU2	Electrical Features	Infrastructure and Facilities
AF	247m SE	Left Luggage - Baggage Storage (Lockers)	London Luton Airport Pre Security, Airport Way, Luton Airport, Luton, Bedfordshire, LU2 9LY	Container and Storage	Transport, Storage and Delivery
AF	247m SE	London Luton Airport	Navigation House, Airport Way, London Luton Airport, Luton, Bedfordshire, LU2 9LY	Airports and Landing Strips	Air

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**3**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 48**

ID	Location	Company	Address	LPG	Status
15	17m SE	OBSOLETE	Airport Approach Road, Luton, Luton, LU2 9PF	Not Applicable	Obsolete
S	36m NW	ASDA	Wigmore Lane, Wigmore, Luton, Luton, LU2 9TA	No	Open
Y	113m N	SHELL	Eaton Green Road, Luton, Luton, LU2 9HD	Yes	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	0

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	1

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.

Features are displayed on the Current industrial land use map on **page 48**

ID	Location	Company	Address	Operational status	Tier
N	**On site**	**Shell UK Oil Products Limited**	**Shell UK Oil Products Limited, Luton Airport, Terminal Building, Percival Way, Luton, Bedfordshire, LU2 9LU**	**Current COMAH Site**	**COMAH Lower Tier Operator**

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	**1**

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.

Features are displayed on the Current industrial land use map on **page 48**

ID	Location	Company	Operational Address
F	**On site**	**Gkn Aerospace Transparency Systems (Kings Norton)**	**Percival Way, London Luton Airport, Luton, LU2 9PQ**

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	**3**

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.

Features are displayed on the Current industrial land use map on **page 48**

ID	Location	Details	
N	34m E	Application reference number: 05/01110/HAZ Application status: Approved Application date: 12/07/2005 Address: Shell UK Oil Products Ltd, Airport Fuel Storage Depot, Percival Way, Luton, Beds, England, LU2 9LU	Details: Storage of Jet A-1 fuel within 4 storage tanks. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
26	85m NW	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: GKN Aerospace Transparency SystemsS(LUTON) LTD, Percival Way, Luton Airport, Luton, Bedfordshire, England	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details

ID	Location	Details	
38	228m SW	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: IBC Vehicles Ltd, PO Box 163, Kimpton Road, Luton, Bedfordshire, LU2 0TY	Details: No details. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

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	**1**

Records of Part A(1) 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 48**

ID	Location	Details	
AD	181m NE	Operator: LONDON LUTON AIRPORT OPERATIONS LIMITED Installation Name: LONDON LUTON AIRPORT Process: NEW MEDIUM COMBUSTION PLANT Permit Number: BP3603PE Original Permit Number: BP3603PE	EPR Reference: - Issue Date: 18/12/2019 Effective Date: 18/12/2019 Last date noted as effective: 26/10/2020 Status: EFFECTIVE

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

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

Records within 500m	**10**

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 48**

ID	Location	Address	Details	
12	**On site**	**T & D Automotive, Airport Way**	**Process: Coating Processes Status: Historical Permit Permit Type: Part B**	**Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices**
F	**On site**	**GKN Aerospace, Percival Way, LU2 9LU**	**Process: Coating Processes Status: Current Permit Permit Type: Part B**	**Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices**
K	**On site**	**Airline Services, Building 160, Provost Way, Luton, LU2 9PB**	**Process: Dry Cleaning Status: Current Permit Permit Type: Part B**	**Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices**
S	45m NW	Asda, Wigmore Lane, Stopsley, Luton, LU2 9TA	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices
22	58m S	Aerospace Composites, Luton Airport, LU2 9PQ	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices
Y	101m N	Airport Service Station, 3 Eaton Green Road, LU2 9HD	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices
Y	106m N	Shell Luton Airport, Eaton Green Road, LU2 9HD	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices
32	172m NW	Kez's Dry Cleaners, 13 Eaton Green Road, LU2 9HE	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices
42	331m W	Ibc Vehicles, Kimpton Rd, Luton, Bedfordshire, LU2 0TY	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices
43	347m SW	IBC Vehicles, Kimpton Rd, Luton, Bedfordshire, LU2 0TY	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of enforcement: No Enforcement Notices Comment: No Enforcement Notices

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 48**

ID	Location	Address	Details	
10	**On site**	**LUTON AIRPORT NORTHERN SOAKAWAY, PRESIDENT WAY, LONDON LUTON AIRPORT, LUTON, BEDFORDSHIRE, LU2 9PD**	**Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRRP3221GC Permit Version: 1 Receiving Water: TO GROUND**	**Status: NEW ISSUED UNDER EPR 2010 Issue date: 11/04/2012 Effective Date: 11/04/2012 Revocation Date: -**
D	**On site**	**Wigmore Bottom, Luton, Wigmore Bottom, Luton**	**Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2256 Permit Version: 1 Receiving Water: LEE**	**Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010**
D	**On site**	**Wigmore Bottom, Luton, Wigmore Bottom, Luton**	**Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2256 Permit Version: 2 Receiving Water: Lee**	**Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 19/08/2014**
AH	400m SE	THE PAY STATION AT CAR PARK A, LOND, THE PAY STATION AT CAR PARK A L, ONDON LUTON AIRPORT LUTON BEDF, ORDSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1315 Permit Version: 1 Receiving Water: GRAVEL	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 04/03/1994 Effective Date: 04/03/1994 Revocation Date: 18/01/2006
AH	400m SE	THE PAY STATION AT CAR PARK A, LOND, THE PAY STATION AT CAR PARK A L, ONDON LUTON AIRPORT LUTON BEDF, ORDSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1315 Permit Version: 2 Receiving Water: GRAVEL	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 19/01/2006 Effective Date: 19/01/2006 Revocation Date: 19/01/2018

ID	Location	Address	Details	
AI	427m SW	VFK SITE OFFICES, SITE 1, KIMPTON ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3497AD Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/06/2019 Effective Date: 27/06/2019 Revocation Date: -
AI	427m SW	VFK SITE OFFICES, SITE 1, KIMPTON ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3497AD Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/06/2019 Effective Date: 27/06/2019 Revocation Date: -
AI	427m SW	VFK SITE OFFICES, SITE 1, KIMPTON ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3497AD Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/06/2019 Effective Date: 27/06/2019 Revocation Date: -
AI	427m SW	VFK SITE OFFICES, SITE 1, KIMPTON ROAD	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3497AD Permit Version: 1 Receiving Water: GROUNDWATER	Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/06/2019 Effective Date: 27/06/2019 Revocation Date: -
45	445m SE	LONDON LUTON AIRPORT OPERATIONS LTD, NAVIGATION HOUSE, LONDON LUTON AIRPORT, LUTON, LU2 9LY	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CANM.0448 Permit Version: 1 Receiving Water: LAND VIA SUB-IRRIGATION	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/09/2002 Effective Date: 27/09/2002 Revocation Date: -
AJ	477m E	Wanden End, Luton, Wanden End, Luton, LU2 8SN	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2175 Permit Version: 1 Receiving Water: LEE	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
AJ	477m E	Wanden End, Luton, Wanden End, Luton, LU2 8SN	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2175 Permit Version: 2 Receiving Water: Lee	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 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	0

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	3

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.

Features are displayed on the Current industrial land use map on **page 48**

ID	Location	Name	Status	Receiving Water	Authorised Substances
Q	41m NW	Vauxhall Motors Kimpton Road Luton	Not Active	-	-
Q	41m NW	Vauxhall Motors Kimpton Road Luton	Not Active	-	-
Q	41m NW	Vauxhall Motors Ltd, Kimpton Road, Luton	Not Active	Lee	Mercury (other), Cadmium

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	**9**

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 **page 48**

ID	Location	Details	
T	37m E	Incident Date: 13/10/2001 Incident Identification: 36419 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
T	41m E	Incident Date: 16/01/2002 Incident Identification: 52824 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AC	159m NW	Incident Date: 22/08/2002 Incident Identification: 102538 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
AC	159m NW	Incident Date: 22/08/2002 Incident Identification: 102538 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
31	168m NW	Incident Date: 07/07/2001 Incident Identification: 14602 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
AE	227m W	Incident Date: 20/01/2006 Incident Identification: 373127 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 2 (Significant) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
AG	251m W	Incident Date: 13/08/2012 Incident Identification: 1025254 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
AG	254m SW	Incident Date: 22/07/2013 Incident Identification: 1137214 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)

ID	Location	Details	
44	373m NW	Incident Date: 24/02/2014 Incident Identification: 1211679 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)

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.

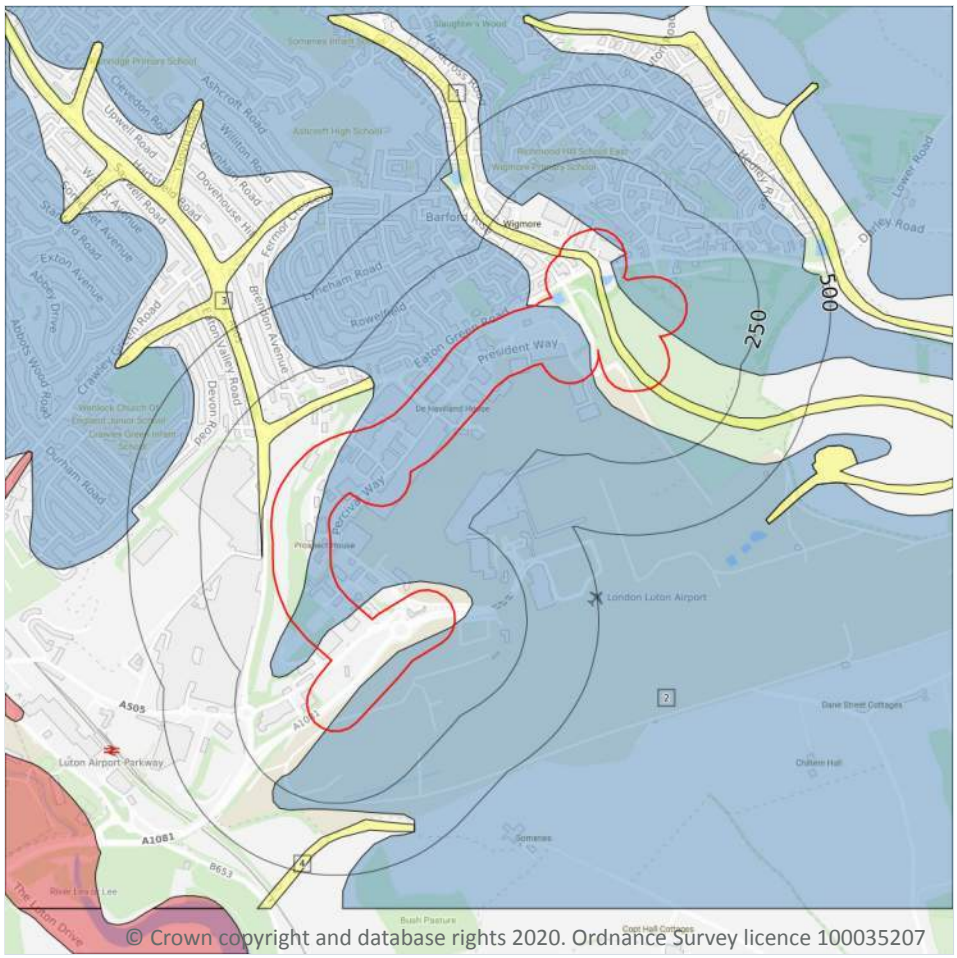
4.21 Pollution inventory radioactive waste

Records within 500m	**0**

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



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Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	4

Aquifer status of groundwater held within superficial geology.

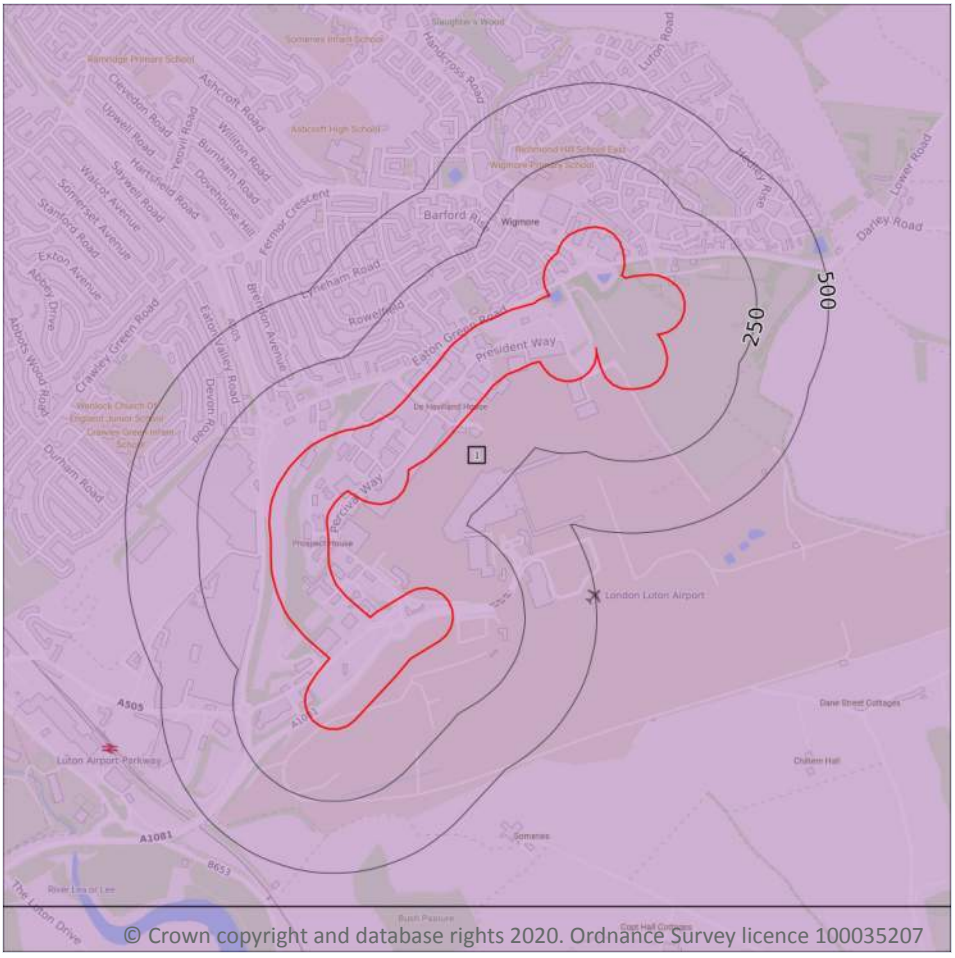
Features are displayed on the Hydrogeology map on **page 65**

ID	Location	Designation	Description
1	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
2	On site	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
3	31m 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
4	319m S	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



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	1

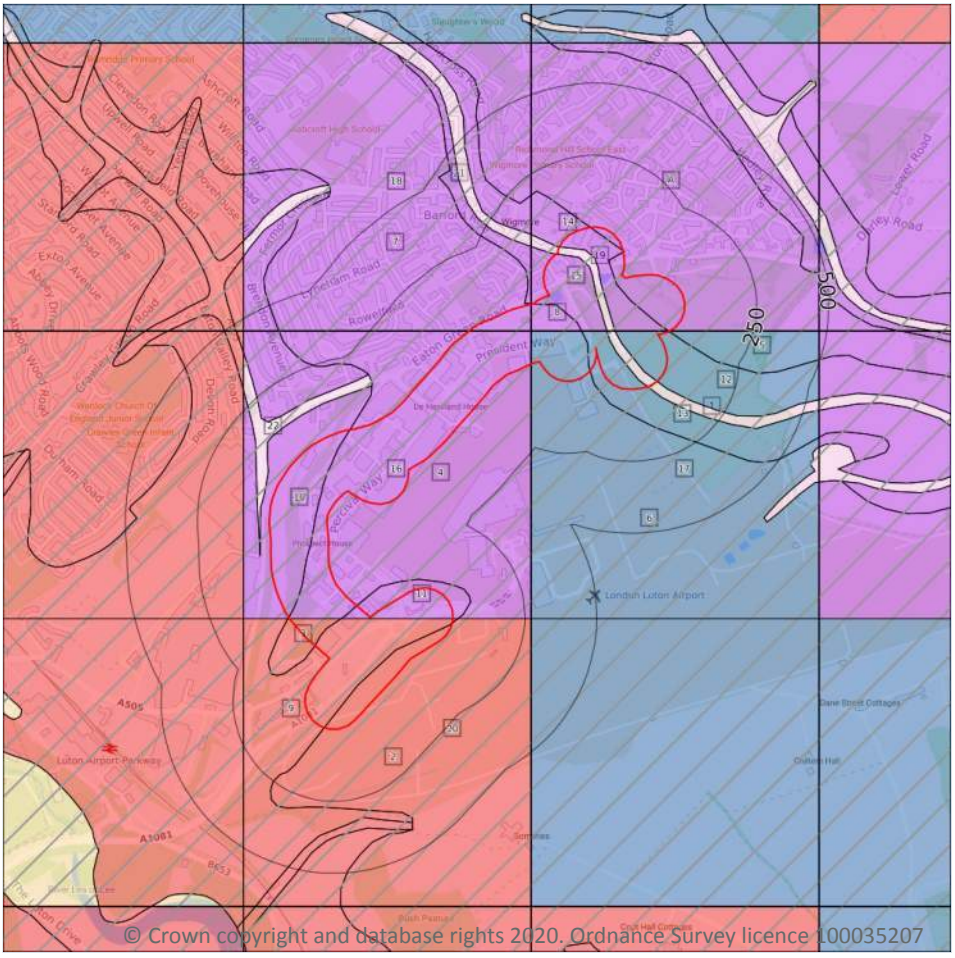
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 67**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	19

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 68**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
4	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
5	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
6	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
7	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
9	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
10	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
11	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
12	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
13	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
14	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
15	**On site**	**Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low**	**Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures**
19	**On site**	**Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low**	**Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures**
20	**On site**	**Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures**
A	**On site**	**Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low**	**Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures**
21	1m N	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
22	30m W	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal 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	5

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**4.0%**
16	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**3.0%**
17	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**4.0%**
18	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**24.0%**
A	**Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.**	**25.0%**

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

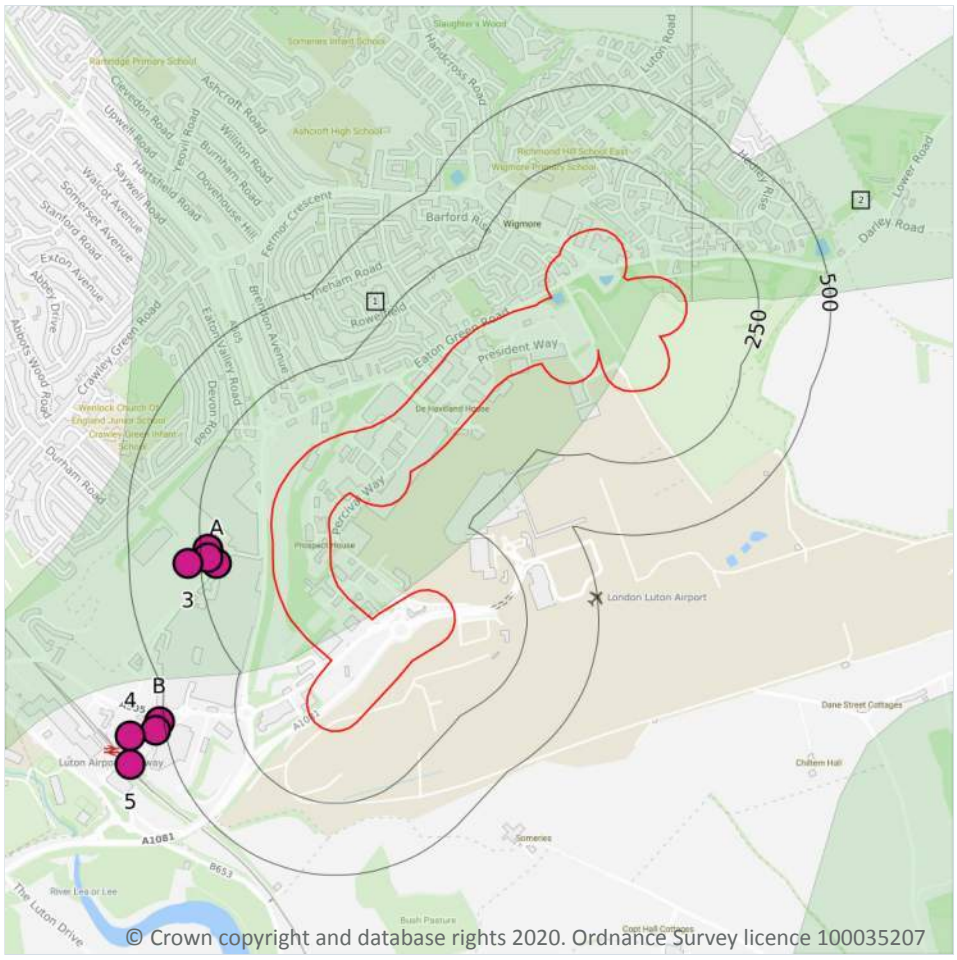
5.5 Groundwater vulnerability- local information

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 enquiries@environment-agency.gov.uk.

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	15

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 73**

ID	Location	Details	
A	196m W	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON, BOREHOLE 'D' Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510900 Northing: 221200	Annual Volume (m^3): 2,636,738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2005 Version End Date: -
A	225m W	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON - BOREHOLE D Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510870 Northing: 221250	Annual Volume (m^3): 1,000,000 Max Daily Volume (m^3): 11,724 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 01/12/2017 Version End Date: -
A	225m W	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON - BOREHOLE C Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510870 Northing: 221220	Annual Volume (m^3): 1,000,000 Max Daily Volume (m^3): 11,724 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 01/12/2017 Version End Date: -
3	296m W	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON, BOREHOLE 'C' Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510800 Northing: 221200	Annual Volume (m^3): 2,636,738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2005 Version End Date: -

ID	Location	Details	
B	517m W	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON - BOREHOLE B Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510700 Northing: 220650	Annual Volume (m^3): 1,000,000 Max Daily Volume (m^3): 11,724 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 01/12/2017 Version End Date: -
B	531m W	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON - BOREHOLE A Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510690 Northing: 220620	Annual Volume (m^3): 1,000,000 Max Daily Volume (m^3): 11,724 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 01/12/2017 Version End Date: -
4	623m W	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON, BOREHOLE 'B' Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510600 Northing: 220600	Annual Volume (m^3): 2,636,738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2005 Version End Date: -
5	646m W	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: KIMPTON ROAD, LUTON, BOREHOLE 'A' Data Type: Point Name: IBC VEHICLES LIMITED Easting: 510600 Northing: 220500	Annual Volume (m^3): 2,636,738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2005 Version End Date: -

ID	Location	Details	
-	1472m W	Status: Historical Licence No: 29/38/01/0106 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: 120 PARK STREET, LUTON, BEDFORDSHIRE - 32 BOREHOLES Data Type: Point Name: URS CORPORATION LIMITED Easting: 509670 Northing: 220800	Annual Volume (m^3): 35040 Max Daily Volume (m^3): 96 Original Application No: - Original Start Date: 10/10/2007 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/10/2007 Version End Date: -
-	1508m W	Status: Active Licence No: 29/38/01/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: CRESCENT ROAD PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 509600 Northing: 221600	Annual Volume (m^3): 10,398,011 Max Daily Volume (m^3): 29,300 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
-	1574m NW	Status: Historical Licence No: 28/39/01/0106 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: 120 PARK STREET, LUTON Data Type: Point Name: URS CORPORATION LIMITED Easting: 509670 Northing: 222080	Annual Volume (m^3): 35040 Max Daily Volume (m^3): 96 Original Application No: - Original Start Date: 10/10/2007 Expiry Date: 31/03/2009 Issue No: 1 Version Start Date: 10/10/2007 Version End Date: -
-	1674m W	Status: Historical Licence No: 29/38/01/0098 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: POINT 'A' AT GUILDFORD STREET SERVICE STATION, LUTON. Data Type: Point Name: BP OIL UK LIMITED Easting: 509420 Northing: 221470	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/04/2002 Expiry Date: 30-Apr-05 Issue No: 1 Version Start Date: 09/04/2002 Version End Date: -
-	1674m W	Status: Historical Licence No: 29/38/01/0098 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: GUILDFORD STREET SERVICE STATION, LUTON-POINT A Data Type: Point Name: BP OIL UK LIMITED Easting: 509420 Northing: 221470	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/04/2002 Expiry Date: 30/04/2005 Issue No: 1 Version Start Date: 09/04/2002 Version End Date: -

ID	Location	Details	
-	1674m W	Status: Historical Licence No: 29/38/01/0100 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: GUILDFORD STREET SERVICE STATION, LUTON-POINT A Data Type: Point Name: BP OIL UK LIMITED Easting: 509420 Northing: 221470	Annual Volume (m^3): 366000 Max Daily Volume (m^3): 1008 Original Application No: - Original Start Date: 22/10/2003 Expiry Date: 31/12/2013 Issue No: 1 Version Start Date: 22/10/2003 Version End Date: -
-	1675m W	Status: Active Licence No: 29/38/01/0067 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: ALBERT ROAD Data Type: Point Name: Affinity Water Limited Easting: 509450 Northing: 220860	Annual Volume (m^3): 1,663,870 Max Daily Volume (m^3): 5,228 Original Application No: - Original Start Date: 20/10/1969 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	0

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.

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

5.8 Potable abstractions

Records within 2000m	2

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 73**

ID	Location	Details	
-	1508m W	Status: Active Licence No: 29/38/01/0008 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: CRESCENT ROAD PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 509600 Northing: 221600	Annual Volume (m^3): 10,398,011 Max Daily Volume (m^3): 29,300 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
-	1675m W	Status: Active Licence No: 29/38/01/0067 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: ALBERT ROAD Data Type: Point Name: Affinity Water Limited Easting: 509450 Northing: 220860	Annual Volume (m^3): 1,663,870 Max Daily Volume (m^3): 5,228 Original Application No: - Original Start Date: 20/10/1969 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	**2**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 73**

ID	Location	Type	Description
1	**On site**	**3**	**Total catchment**
2	20m E	3	Total catchment

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

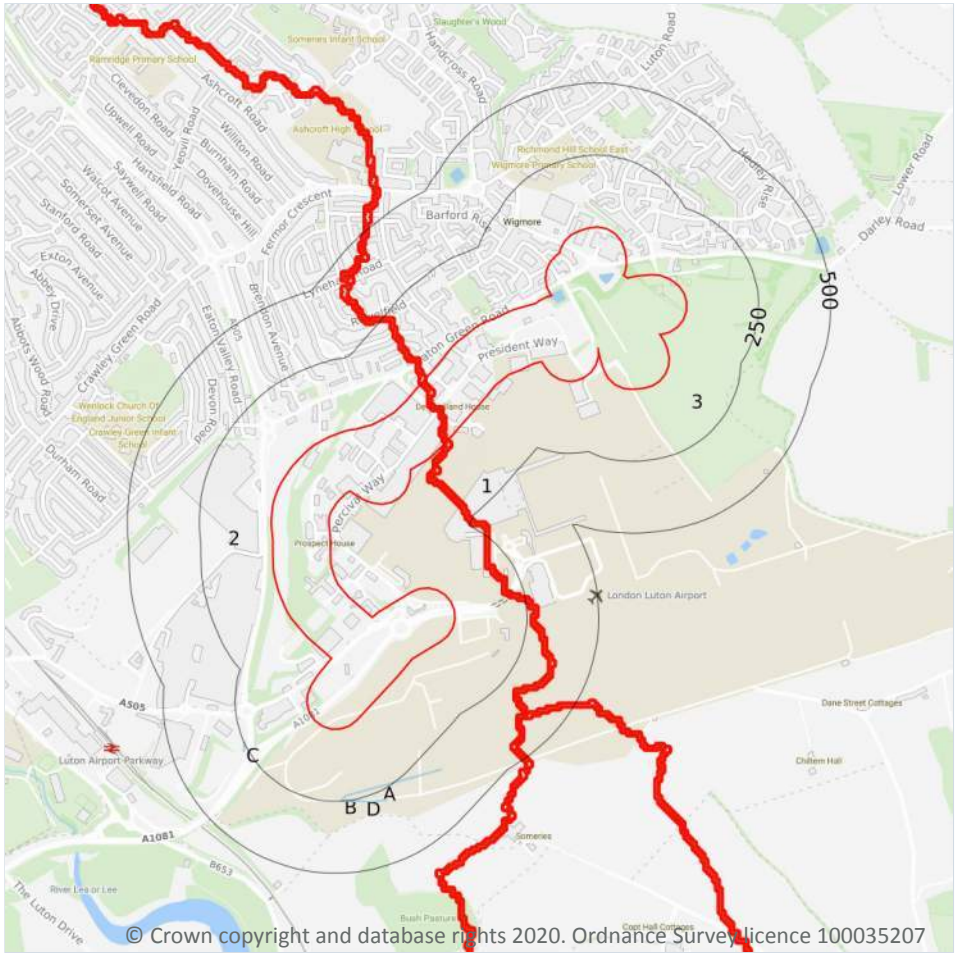
5.10 Source Protection Zones (confined aquifer)

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.

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	**6**

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 79**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	228m S	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
B	240m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	248m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	248m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	248m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	248m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**4**

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 79**

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 79**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	**On site**	**River WB catchment**	**Lee (from Luton to Luton Hoo Lakes)**	**GB106038033391**	**Upper Lee**	**Upper Lee**
3	**On site**	**River WB catchment**	**Mimram (Codicote Bottom to Lee)**	**GB106038033270**	**Upper Lee**	**Upper Lee**

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 79**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	757m SW	River	Lee (from Luton to Luton Hoo Lakes)	GB106038033391	Bad	Good	Bad	2016
-	8057m SE	River	Mimram (Codicote Bottom to Lee)	GB106038033270	Moderate	Good	Moderate	2016

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

6.5 WFD Groundwater bodies

Records on site	**1**

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 79**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	**On site**	**Upper Lee Chalk**	**GB40601G602900**	**Poor**	**Poor**	**Poor**	**2015**

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

7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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), Medium (less than 1 in 30 but greater than or equal to 1 in 100 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.

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

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.

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

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.

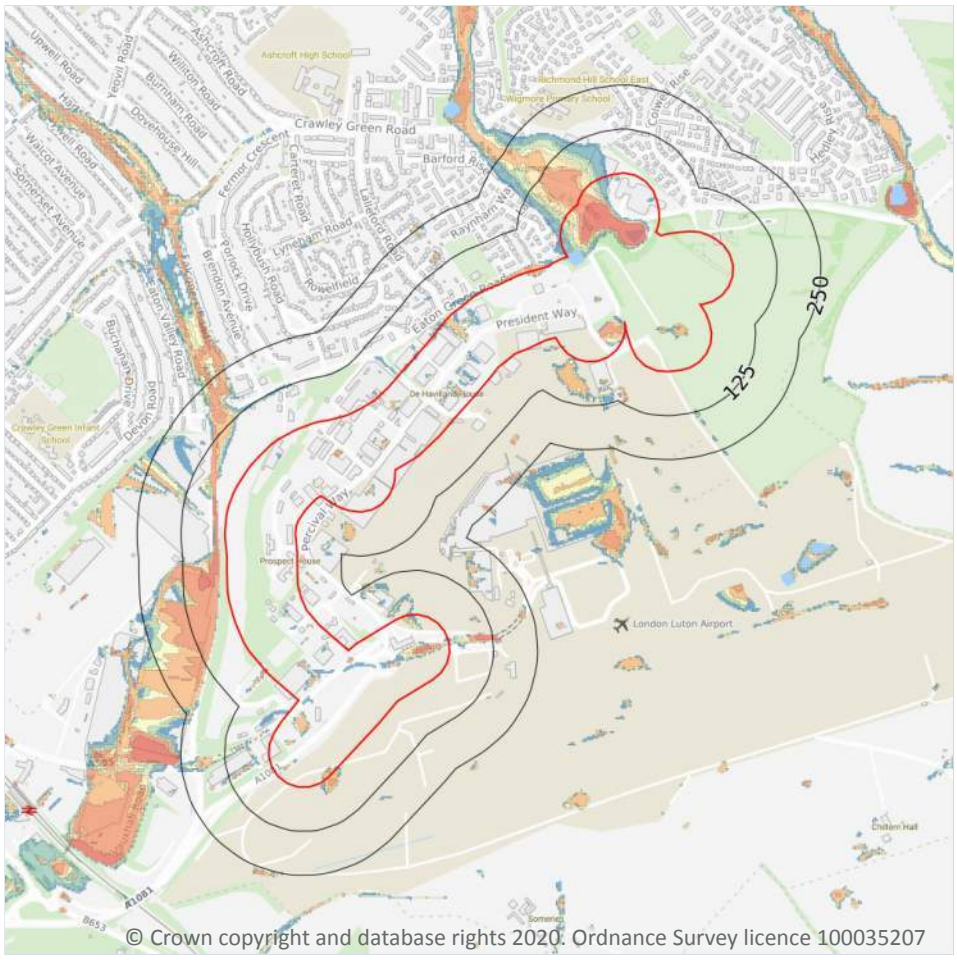
7.7 Flood Zone 3

Records within 50m	0

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.

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

8 Surface water flooding



Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

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 85**

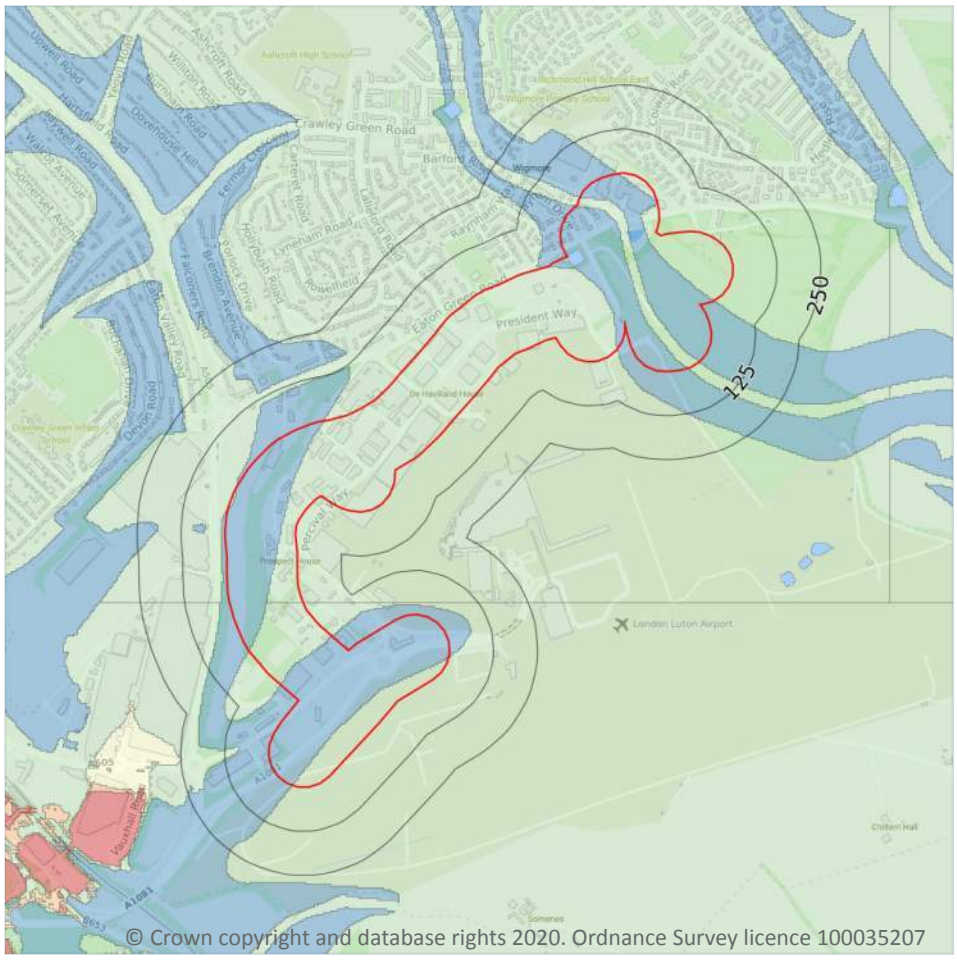
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

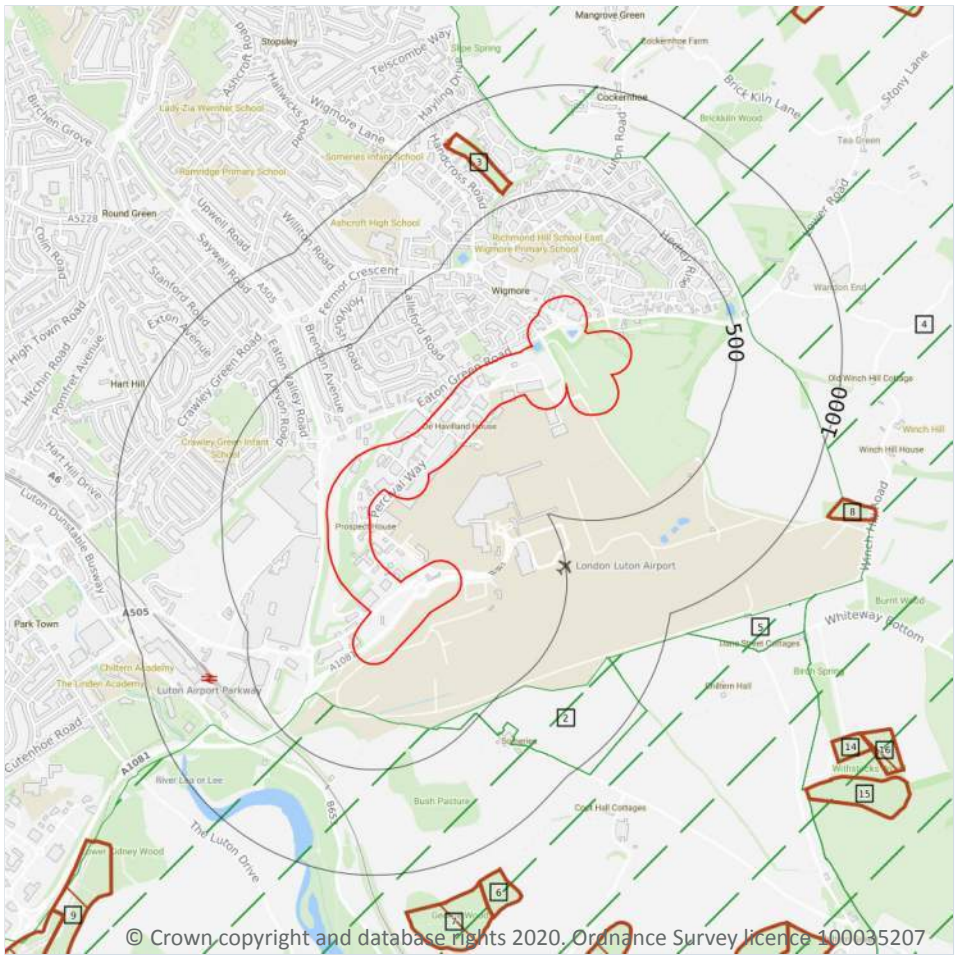
Highest risk on site	**Low**
Highest risk within 50m	**Low**

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 87**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

Green Belt

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 re-notified 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.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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	12

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 88**

ID	Location	Name	Woodland Type
3	552m NW	Slaughters Wood	Ancient & Semi-Natural Woodland
6	1128m SE	George Wood	Ancient Replanted Woodland
7	1139m SE	George Wood	Ancient & Semi-Natural Woodland
8	1139m SE	Winchill Wood	Ancient & Semi-Natural Woodland
9	1477m SW	Kidney/bulls Woods	Ancient & Semi-Natural Woodland
11	1654m SE	Hardingdell Woods	Ancient Replanted Woodland
12	1700m NE	Stubbocks Wood	Ancient Replanted Woodland
13	1860m SW	Kidney/bulls Woods	Ancient Replanted Woodland
14	1893m SE	Withstocks Wood	Ancient Replanted Woodland
15	1893m SE	Withstocks Wood	Ancient & Semi-Natural Woodland
16	1938m SE	Withstocks Wood	Ancient & Semi-Natural Woodland
17	1994m NE	Stubbocks Wood	Ancient Replanted Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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.

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	5

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

Features are displayed on the Environmental designations map on **page 88**

ID	Location	Name	Local Authority name
1	231m S	London area	Central Bedfordshire
2	388m SE	London area	Luton
4	568m E	London area	North Hertfordshire
5	1096m E	London area	Luton
-	1543m N	London area	Luton

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.

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

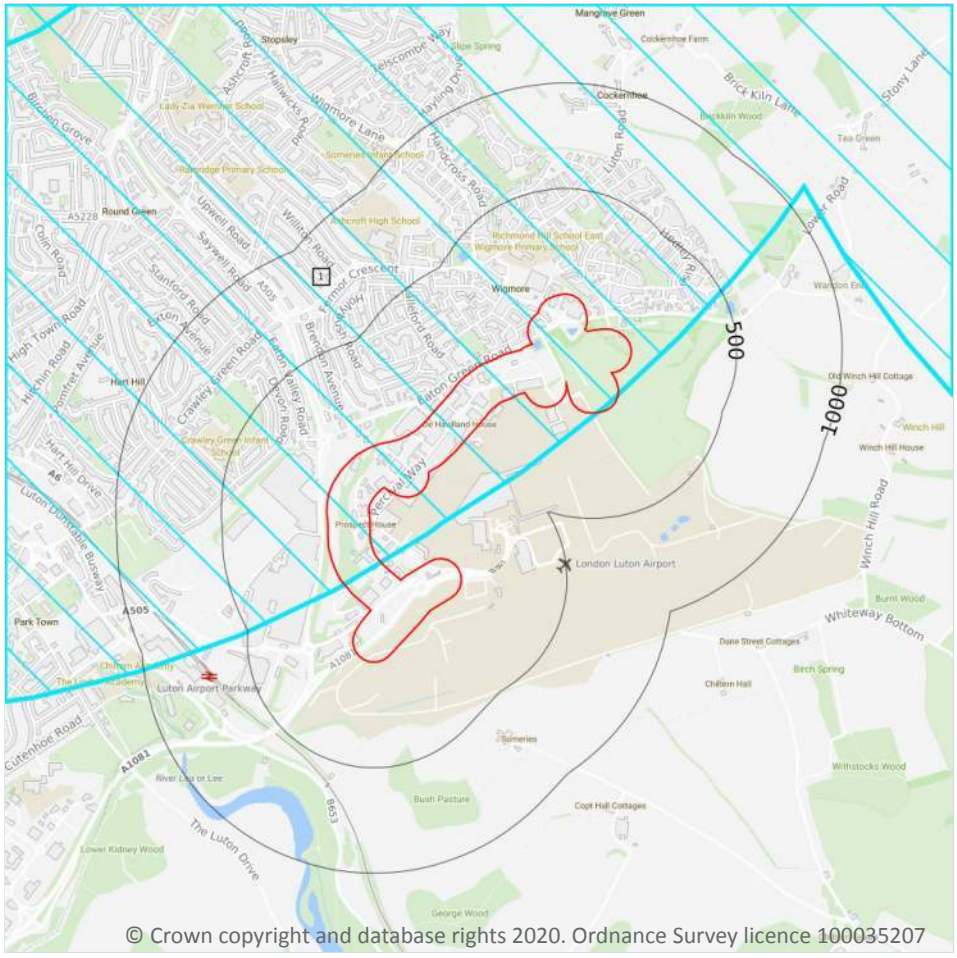
Records within 2000m	**4**

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	Type	NVZ ID	Status
On site	**LEE NVZ**	**Surface Water**	**S443**	**Existing**
350m N	Luton Chalk	Groundwater	G146	Existing
1559m E	Luton Chalk	Groundwater	G146	Existing
1559m E	LEE NVZ	Surface Water	S443	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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 94**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.**

This data is sourced from Natural England.

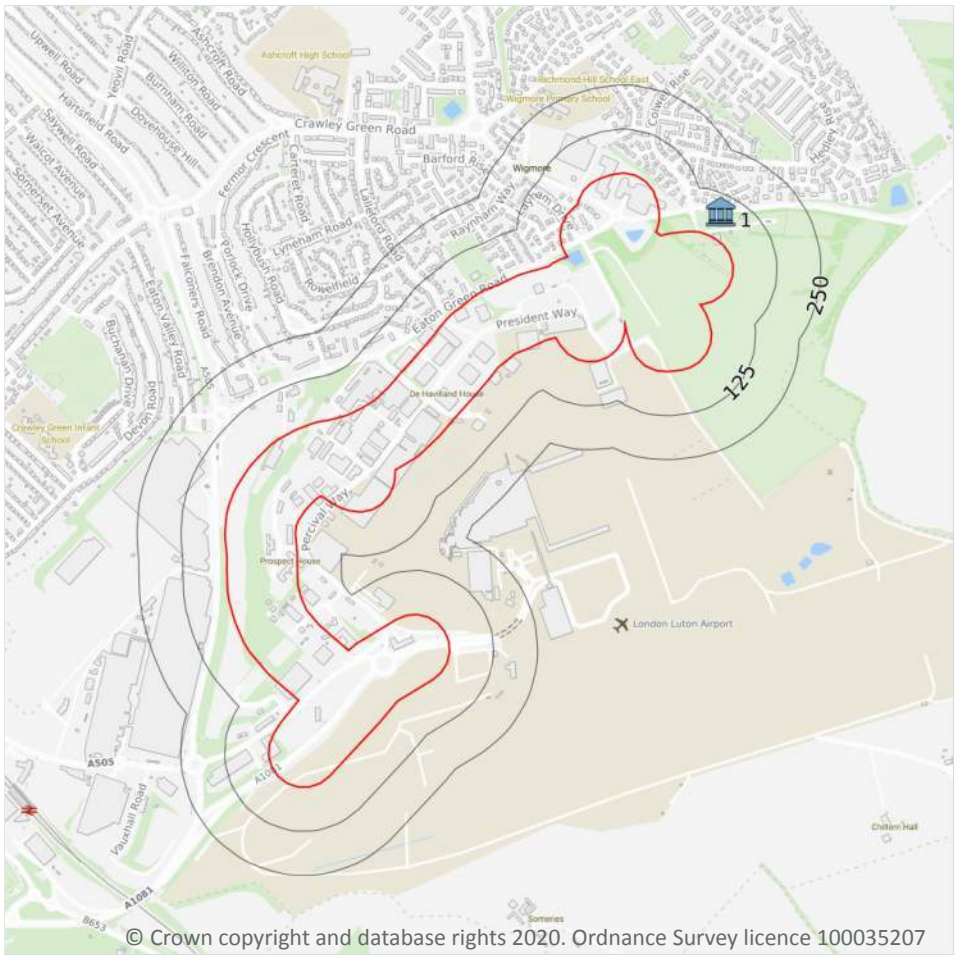
10.18 SSSI Units

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.

11 Visual and cultural designations



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Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

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	1

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 96**

ID	Location	Name	Grade	Reference Number	Listed date
1	74m NE	Wigmore Hall Farmhouse, Luton, LU2	II	1321368	20/02/1981

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

11.5 Conservation Areas

Records within 250m	0

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.

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

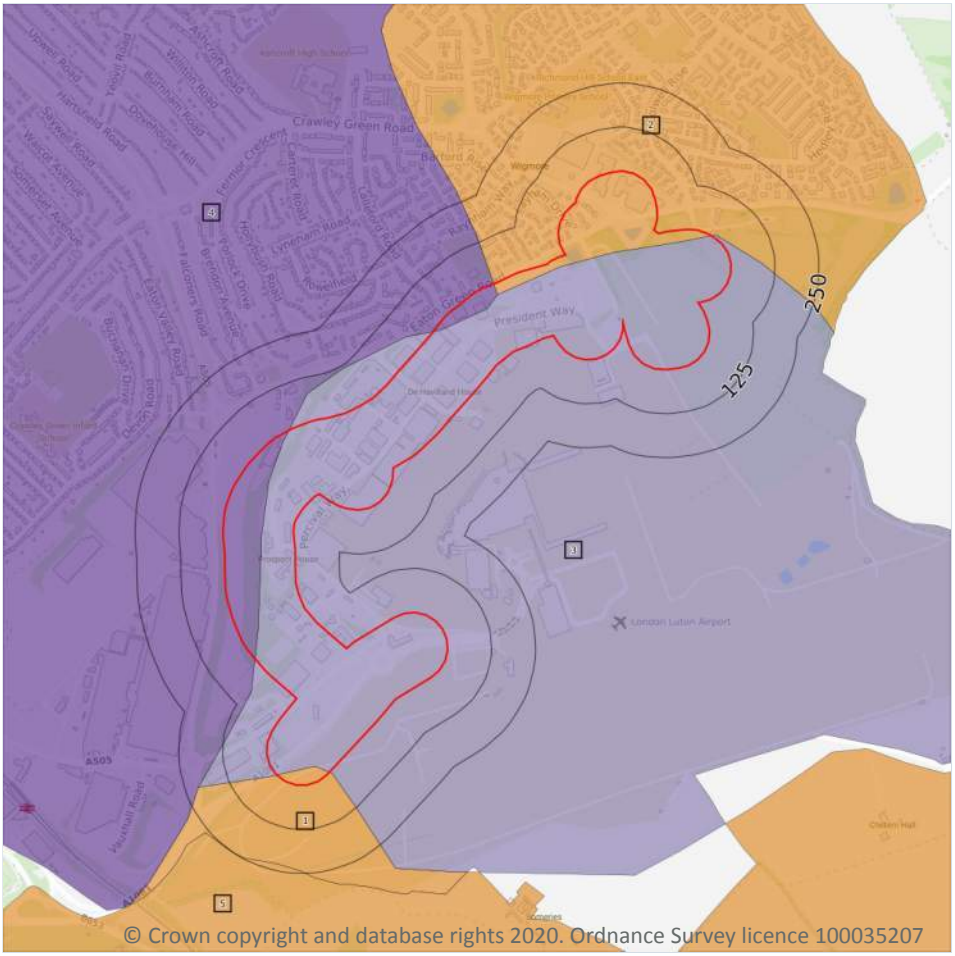
11.7 Registered Parks and Gardens

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 English Heritage, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	5

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 99**

ID	Location	Classification	Description
1	**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.**

ID	Location	Classification	Description
2	**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.**
3	**On site**	**Non Agricultural**	**-**
4	**On site**	**Urban**	**-**
5	231m S	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.

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	**0**

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.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	**0**

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

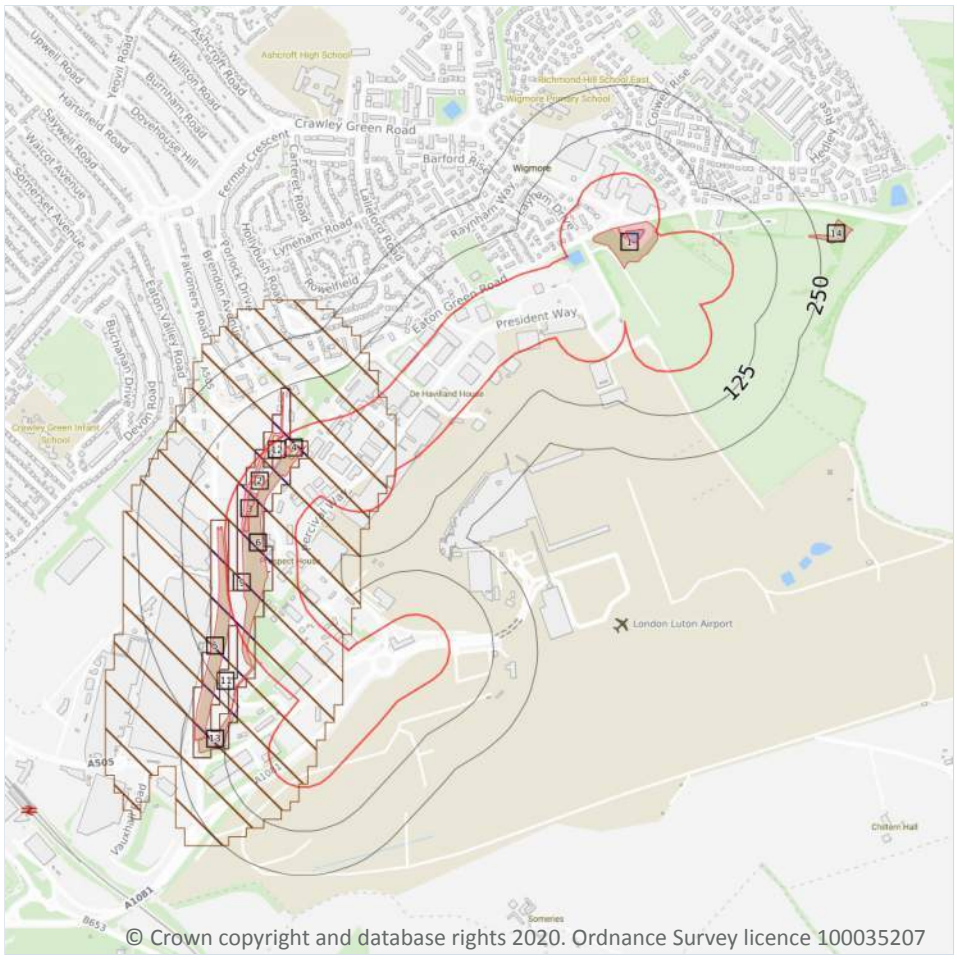
12.5 Countryside Stewardship Schemes

Records within 250m	0

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.

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks
Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	8

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 **page 102**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
3	**On site**	**Lowland calcareous grassland**	**Main habitat: LCGRA (INV > 50%)**
4	**On site**	**Lowland calcareous grassland**	**Main habitat: LCGRA (INV > 50%)**
5	**On site**	**Lowland calcareous grassland**	**Main habitat: LCGRA (INV > 50%)**

ID	Location	Main Habitat	Other habitats
6	**On site**	**Lowland calcareous grassland**	**Main habitat: LCGRA (INV > 50%)**
8	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
13	118m SW	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%)
14	230m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	**6**

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.

Features are displayed on the Habitat designations map on **page 102**

ID	Location	Type	Habitat
2	**On site**	**Network Enhancement Zone 2**	**Not specified**
7	**On site**	**Network Enhancement Zone 2**	**Not specified**
9	**On site**	**Primary Habitat**	**Lowland calcareous grassland**
10	**On site**	**Network Enhancement Zone 2**	**Not specified**
11	**On site**	**Network Enhancement Zone 2**	**Not specified**
12	**On site**	**Network Enhancement Zone 2**	**Not specified**

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.

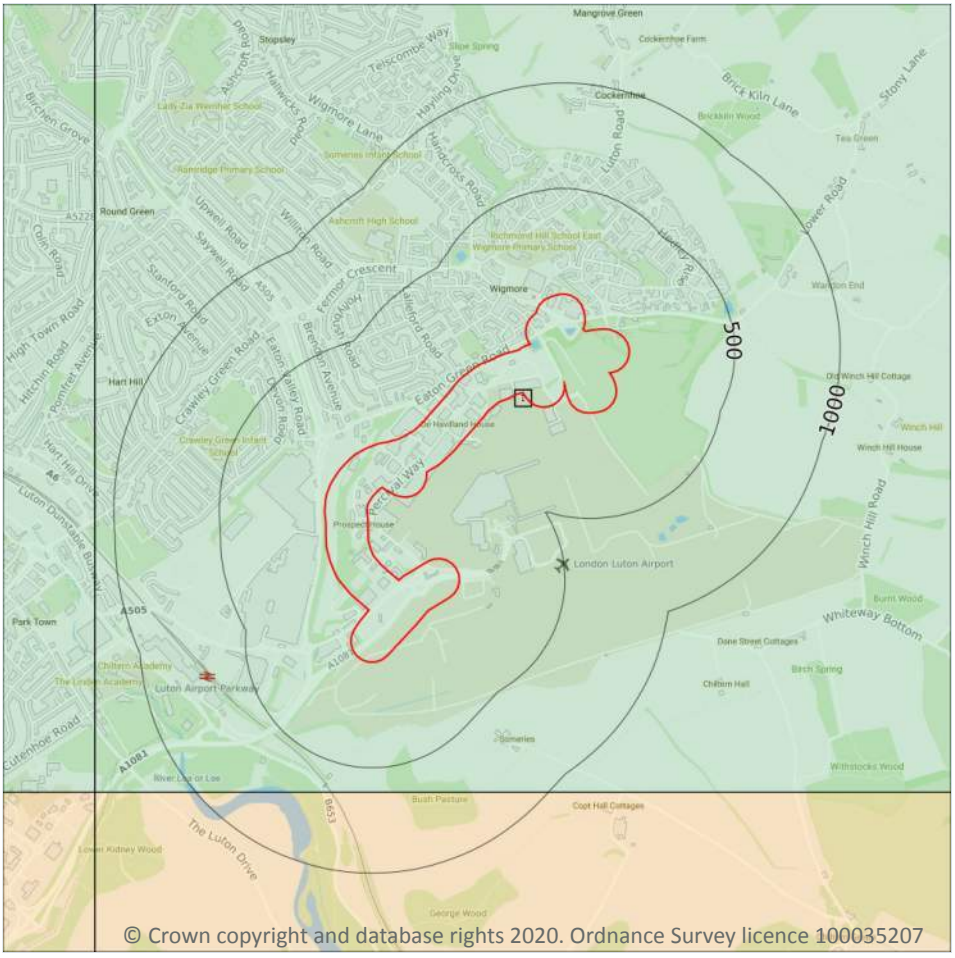
13.4 Limestone Pavement Orders

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



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

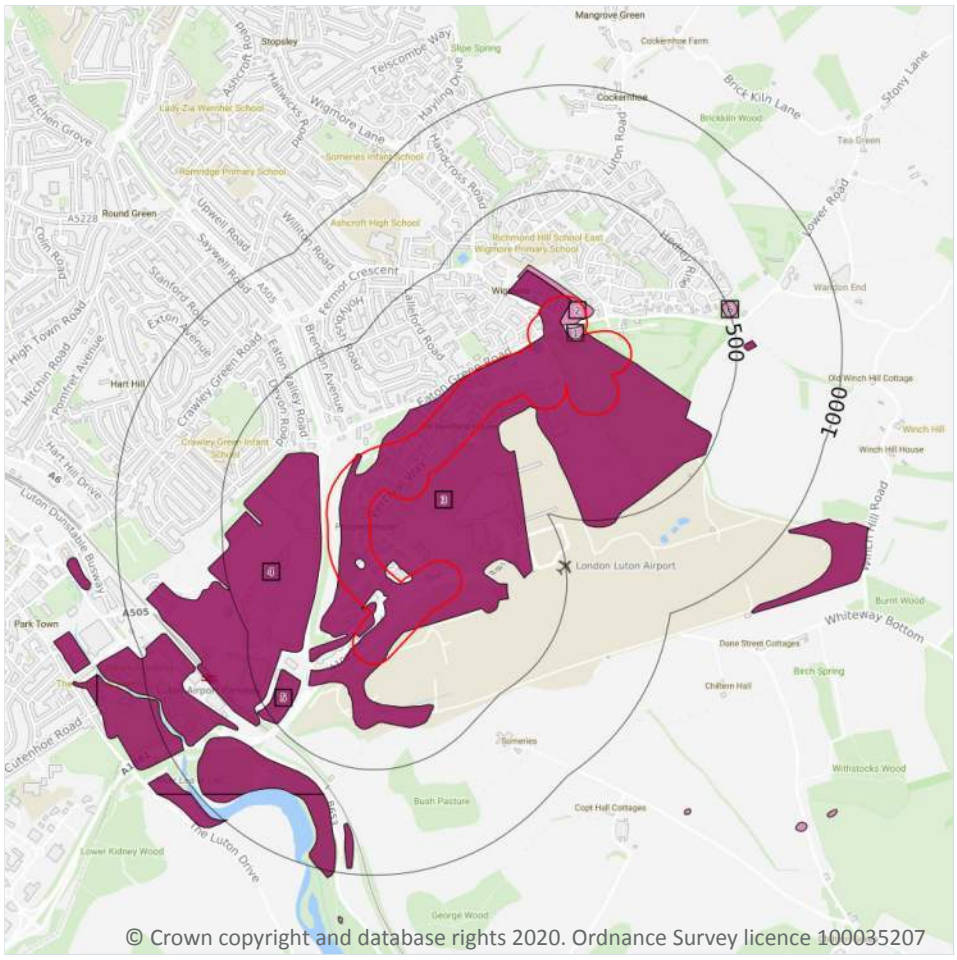
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 105**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**TL12SW**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m	6

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.

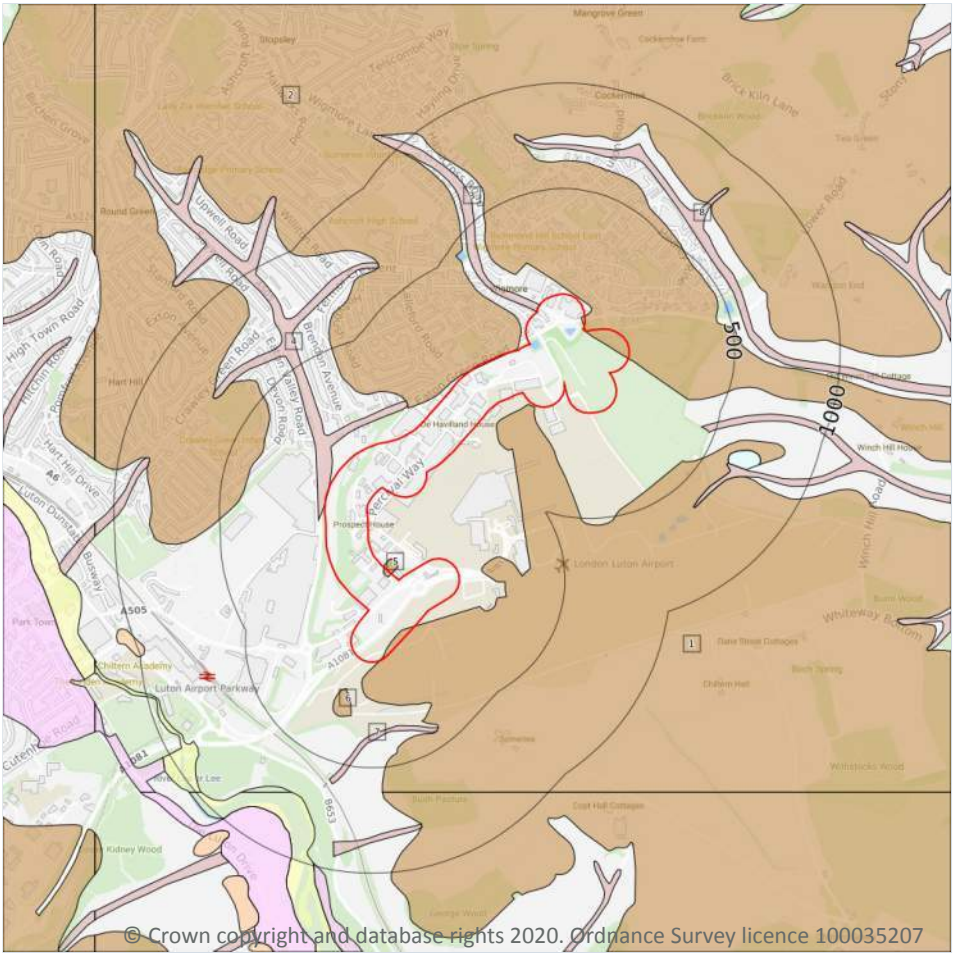
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 106**

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**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
4	31m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	291m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	472m E	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m **8**

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 108**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**CWF-DMTN**	**Clay-with-flints Formation - Diamicton**	**Diamicton**
2	**On site**	**CWF-DMTN**	**Clay-with-flints Formation - Diamicton**	**Diamicton**
3	**On site**	**HEAD-DMTN**	**Head - Diamicton**	**Diamicton**

ID	Location	LEX Code	Description	Rock description
4	**On site**	**HEAD-DMTN**	**Head - Diamicton**	**Diamicton**
5	**On site**	**CWF-DMTN**	**Clay-with-flints Formation - Diamicton**	**Diamicton**
6	155m SW	CWF-DMTN	Clay-with-flints Formation - Diamicton	Diamicton
7	318m S	HEAD-DMTN	Head - Diamicton	Diamicton
8	431m E	HEAD-DMTN	Head - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

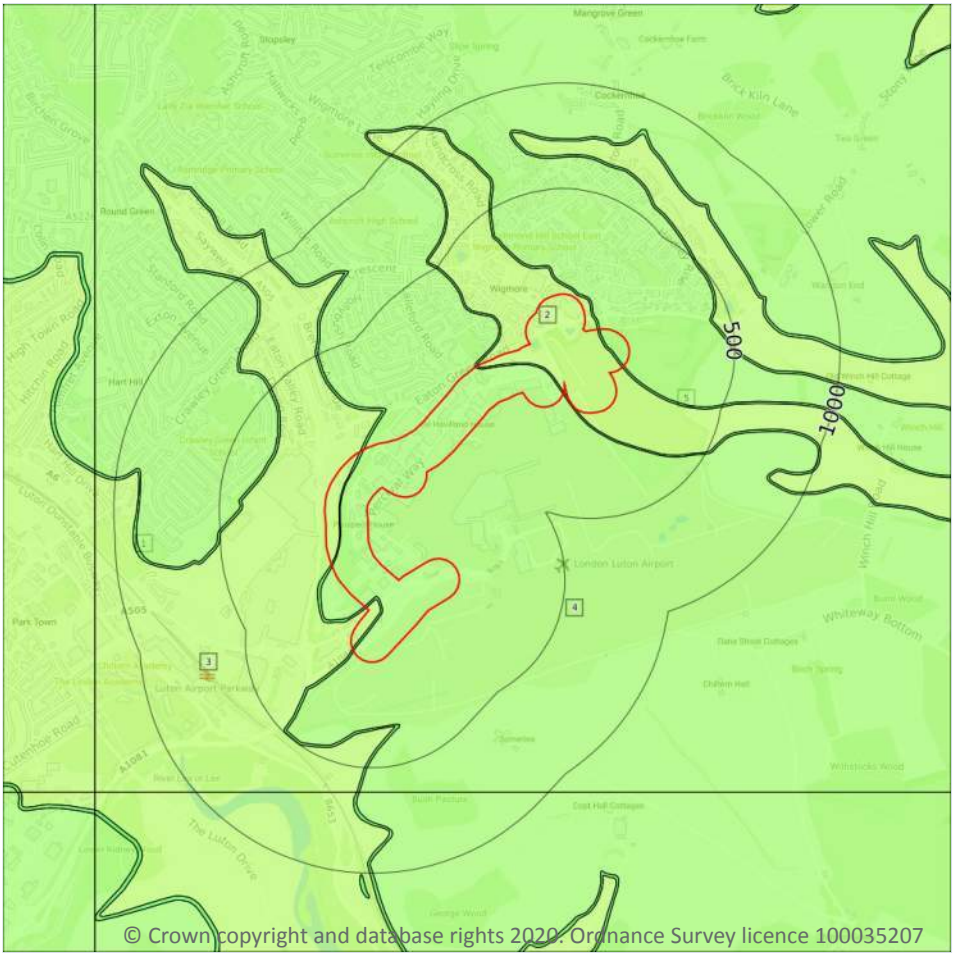
14.4 Landslip (10k)

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.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search 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	5

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 110**

ID	Location	LEX Code	Description	Rock age
1	On site	CKR-CHLK	Chalk Rock Member - Chalk	Turonian Age
2	On site	HNCK-CHLK	Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk	Turonian Age - Cenomanian Age
3	On site	HNCK-CHLK	Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk	Turonian Age - Cenomanian Age

ID	Location	LEX Code	Description	Rock age
4	**On site**	**LECH-CHLK**	**Lewes Nodular Chalk Formation - Chalk**	**Coniacian Age - Turonian Age**
5	**On site**	**CKR-CHLK**	**Chalk Rock Member - Chalk**	**Turonian Age**

This data is sourced from the British Geological Survey.

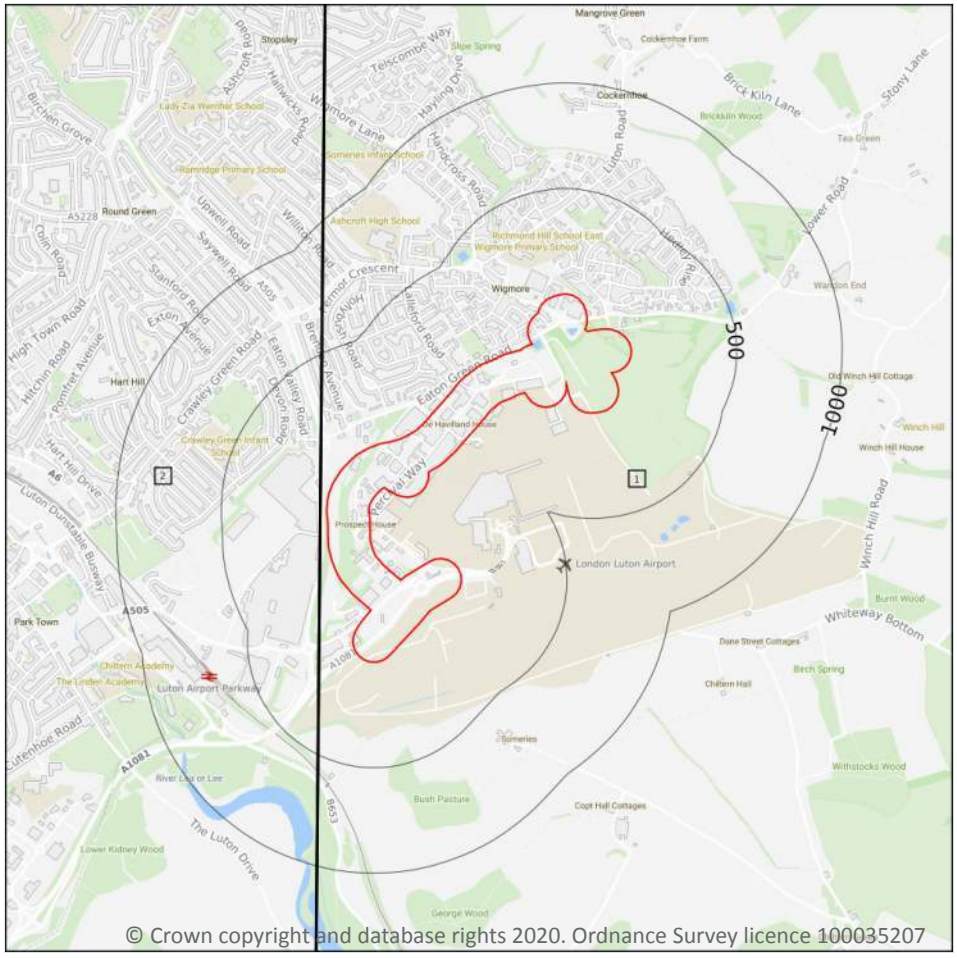
14.6 Bedrock faults and other linear features (10k)

Records within 500m	**0**

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.

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



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Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	2

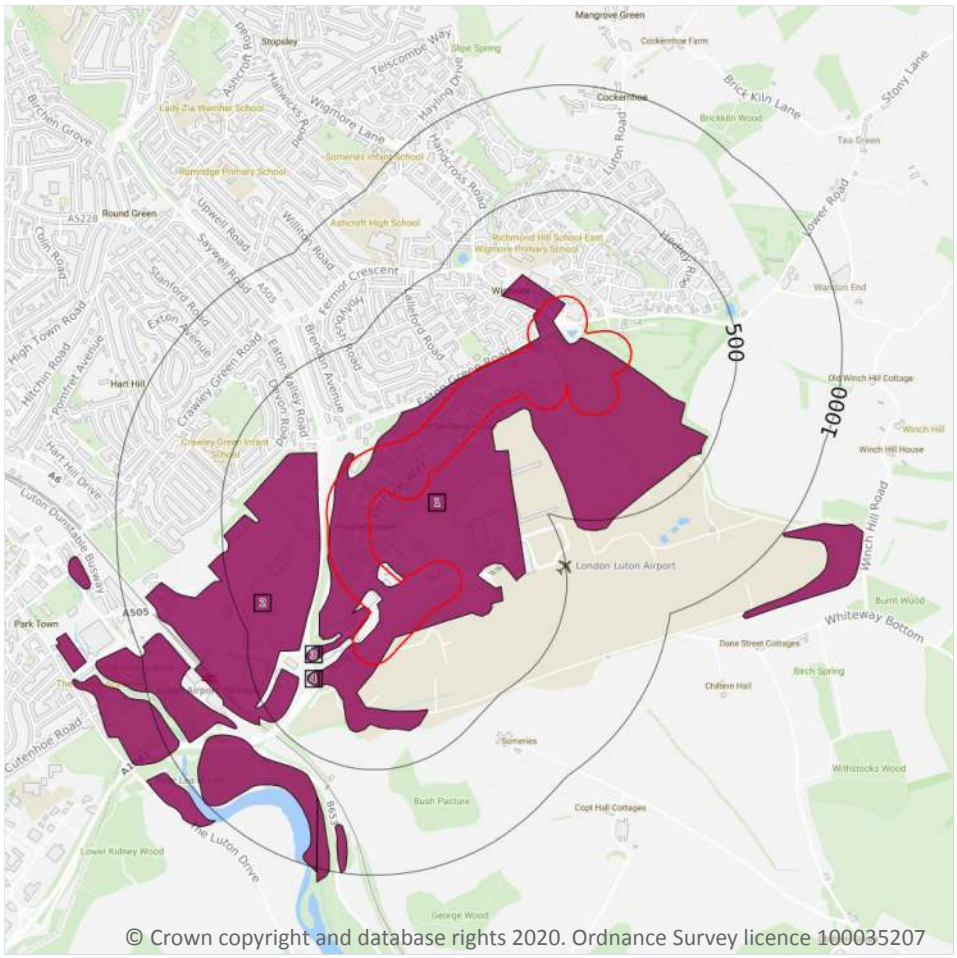
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 112**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW221_hitchin_v4**
2	31m W	Full	Full	Full	Full	EW220_leighton_buzzard_v4

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	4

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 113**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**MGR-ARTDP**	**MADE GROUND (UNDIVIDED)**	**ARTIFICIAL DEPOSIT**
2	38m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	161m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	193m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

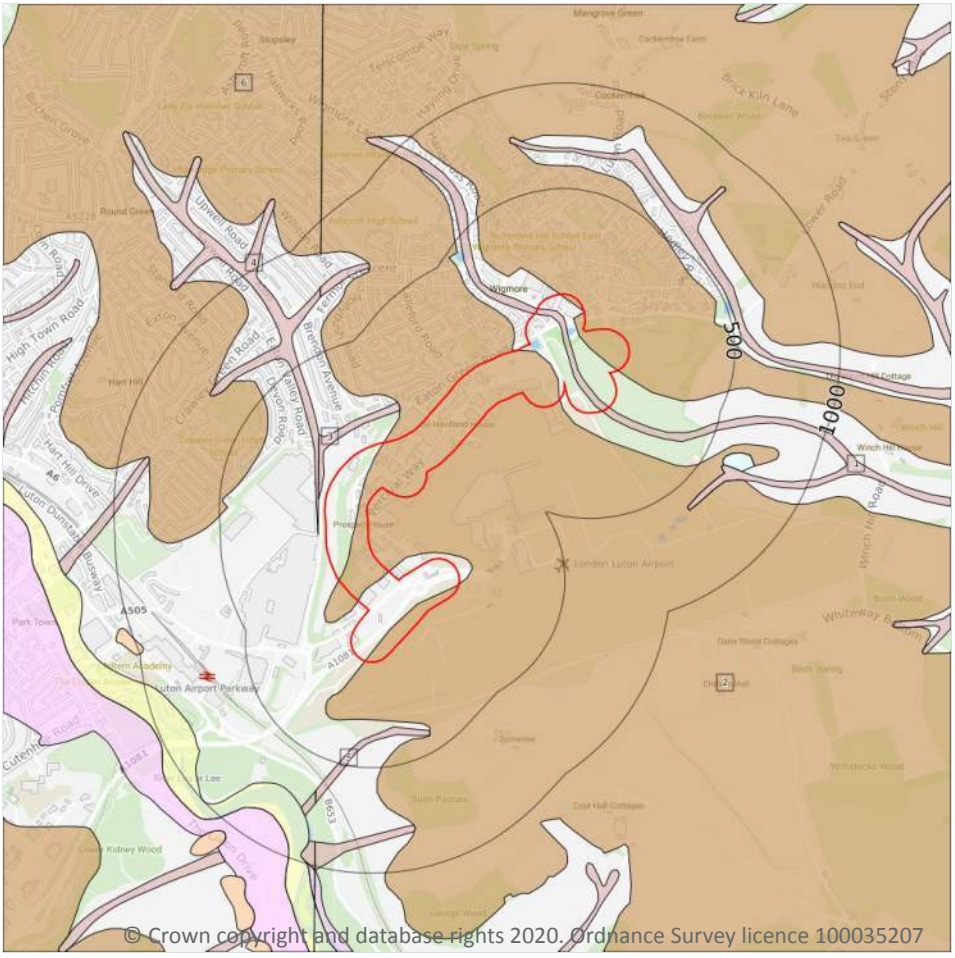
Records within 50m	**2**

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).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**Very High**	**Low**
37m SW	Mixed	Very High	Low

This data is sourced from the British Geological Survey.

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 **6**

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 115**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**HEAD-XCZSV**	**HEAD**	**CLAY, SILT, SAND AND GRAVEL**
2	**On site**	**CWF-XCZSV**	**CLAY-WITH-FLINTS FORMATION**	**CLAY, SILT, SAND AND GRAVEL**
3	31m W	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
4	31m W	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
5	319m S	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
6	366m NW	CWF-XCZSV	CLAY-WITH-FLINTS FORMATION	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	**3**

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	**Mixed**	**High**	**Very Low**
On site	**Mixed**	**High**	**Very Low**
31m NW	Mixed	High	Very 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.

This data is sourced from the British Geological Survey.

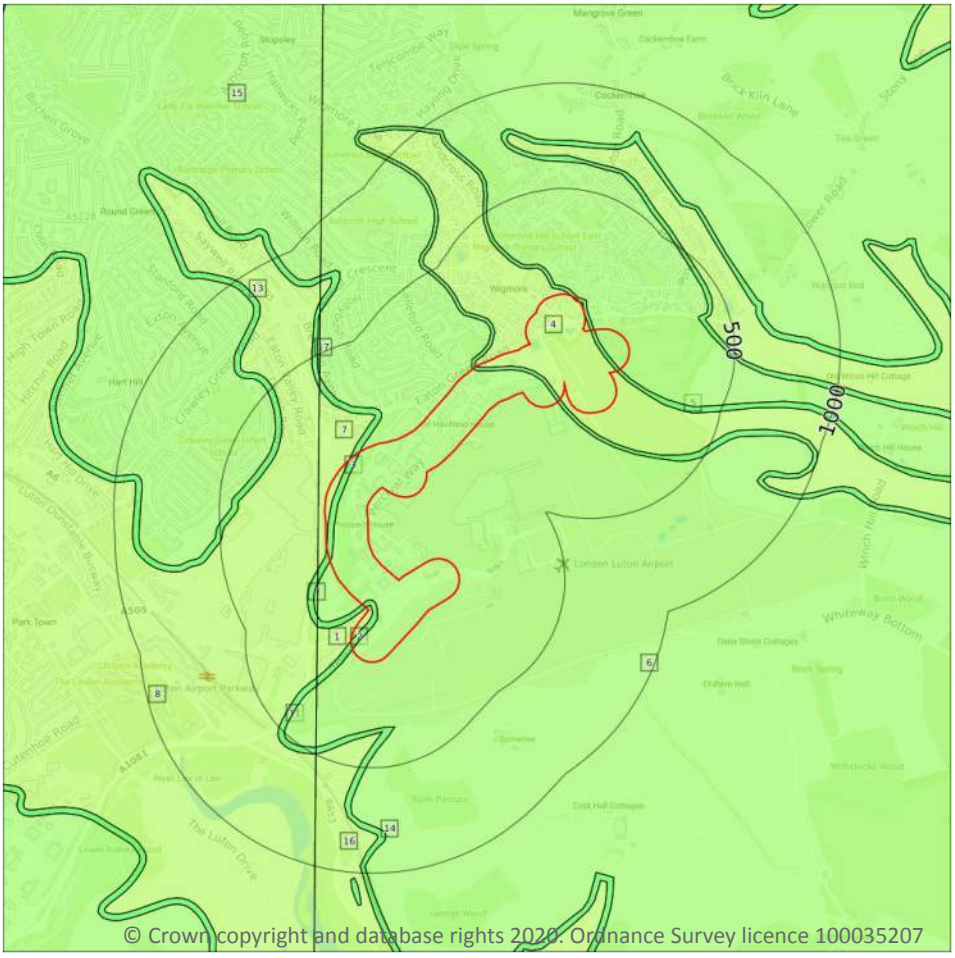
15.7 Landslip permeability (50k)

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).

This data is sourced from the British Geological Survey.

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	18

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 117**

ID	Location	LEX Code	Description	Rock age
1	On site	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN
2	On site	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
3	On site	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN

ID	Location	LEX Code	Description	Rock age
4	**On site**	**HNCK-CHLK**	**HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK**	**CENOMANIAN**
5	**On site**	**CKR-CHLK**	**CHALK ROCK MEMBER - CHALK**	**TURONIAN**
6	**On site**	**LESE-CHLK**	**LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK**	**TURONIAN**
7	**On site**	**HNCK-CHLK**	**HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK**	**CENOMANIAN**
8	31m W	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN
9	69m SW	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
10	96m SW	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
11	215m SW	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
12	238m SW	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
13	296m NW	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
14	312m S	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
15	326m NW	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
16	333m S	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN
17	356m NW	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
18	407m NW	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	**5**

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**	**Very High**	**Very High**

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Very High**	**Very High**
On site	**Fracture**	**Very High**	**Very High**
On site	**Fracture**	**Very High**	**Very High**
On site	**Fracture**	**Very High**	**Very High**

This data is sourced from the British Geological Survey.

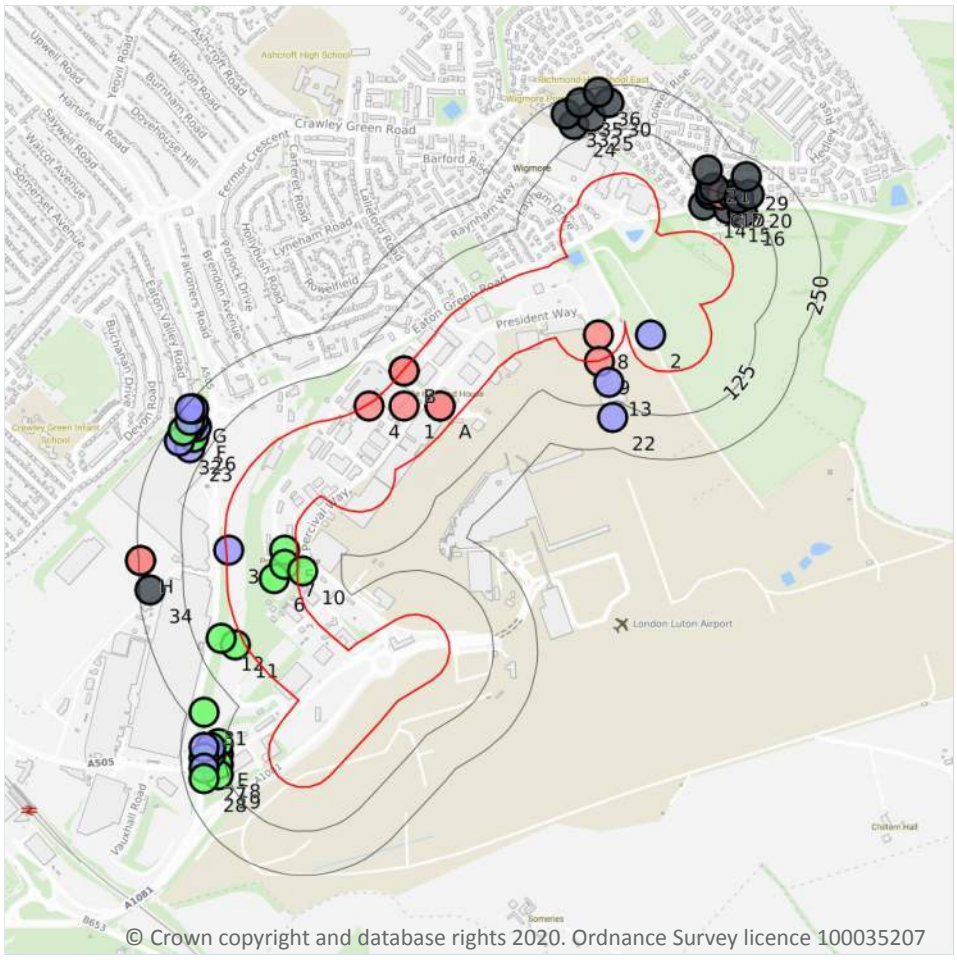
15.10 Bedrock faults and other linear features (50k)

Records within 500m	**0**

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.

This data is sourced from the British Geological Survey.

16 Boreholes



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Site Outline

Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m	60

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 120**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	511600 221700	LUTON AIRPORT	50.9	N	528528
2	On site	512300 221900	WANDON END	-2.0	N	528669
3	On site	511100 221290	LUTON EASTERN BY-PASS 61	10.0	N	528483

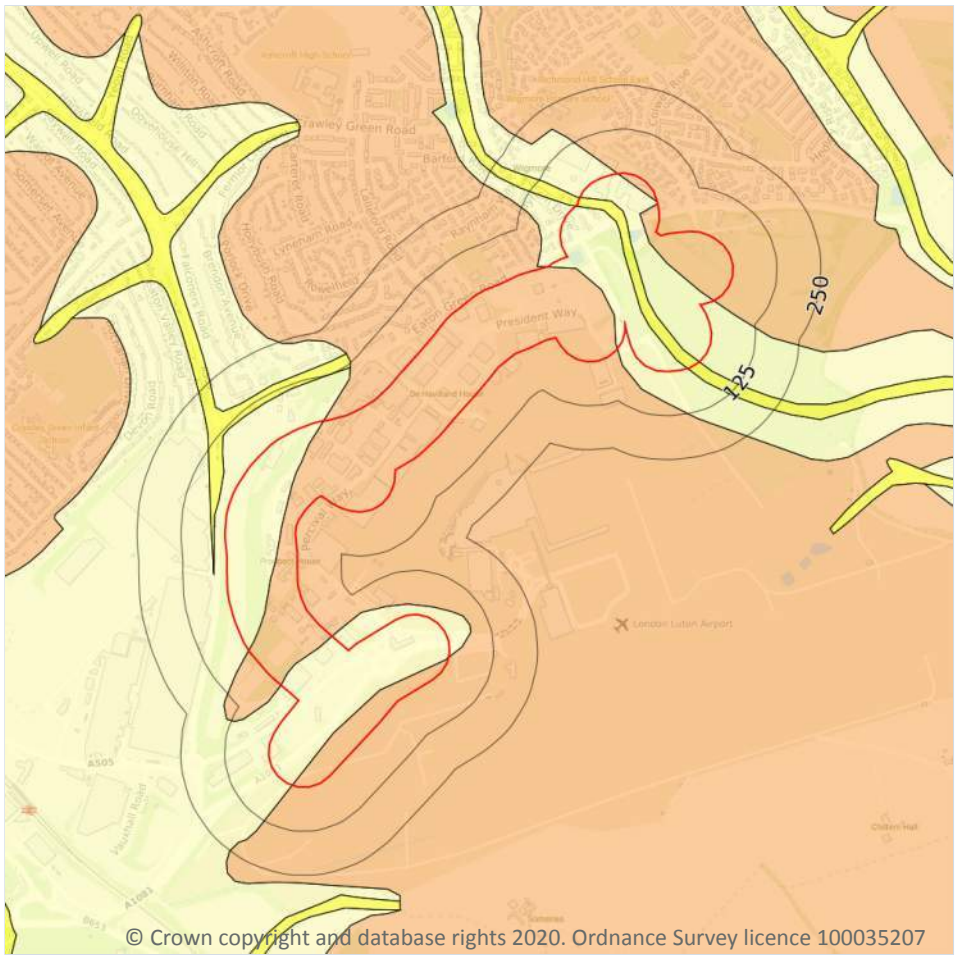
ID	Location	Grid reference	Name	Length	Confidential	Web link
4	**On site**	**511500 221700**	**LUTON AIRPORT**	**35.97**	**N**	**528664**
5	**On site**	**511260 221290**	**LUTON AIRPORT 4**	**14.0**	**N**	**18463005**
6	**On site**	**511230 221210**	**LUTON AIRPORT 1**	**25.0**	**N**	**18463001**
7	**On site**	**511260 221250**	**LUTON AIRPORT 2**	**15.05**	**N**	**18463003**
8	**On site**	**512150 221900**	**LUTON AIRPORT BEDFORDSHIRE**	**67.0**	**N**	**528653**
A	**On site**	**511700 221700**	**LUTON AIRPORT**	**42.67**	**N**	**528665**
A	**On site**	**511700 221700**	**LUTON AIRPORT**	**51.82**	**N**	**528663**
B	**On site**	**511600 221800**	**LUTON AIRPORT**	**54.86**	**N**	**528543**
B	**On site**	**511600 221800**	**LUTON AIRPORT**	**51.82**	**N**	**528660**
9	2m S	512154 221827	LUTON INTERNATIONAL AIR. BH17	87.95	N	528620
10	15m E	511310 221230	LUTON AIRPORT 3	14.0	N	18463004
11	24m SW	511120 221020	LUTON EASTERN BY-PASS 60	26.5	N	528482
12	53m SW	511080 221040	LUTON EASTERN BY-PASS 59	20.0	N	528481
13	68m S	512181 221766	LUTON INTERNATIONAL AIR. BH16	6.85	N	528619
14	77m N	512450 222270	WIGMORE HALL FARM LUTON TH 6	-	Y	N/A
15	93m NE	512520 222260	WIGMORE HALL FARM LUTON TH 5	-	Y	N/A
16	107m NE	512560 222250	WIGMORE HALL FARM LUTON TH 1	-	Y	N/A
C	111m N	512470 222300	WIGMORE HALL FARM LUTON TH 10	-	Y	N/A
C	120m N	512470 222310	WIGMORE HALL FARM LUTON TH 9	-	Y	N/A
17	121m N	512500 222300	WIGMORE HALL NO.1	80.0	N	528662
D	133m NE	512530 222300	WIGMORE HALL FARM LUTON TH 4	-	Y	N/A
C	133m N	512480 222320	WIGMORE HALL FARM LUTON TH 8	-	Y	N/A
D	134m NE	512550 222290	WIGMORE HALL FARM LUTON TH 11	-	Y	N/A
E	144m W	511070 220710	LUTON EASTERN BY-PASS 54	12.5	N	528476
E	146m W	511070 220740	LUTON EASTERN BY-PASS 57	15.0	N	528479
18	146m W	511070 220680	LUTON EASTERN BY-PASS 51	13.0	N	528473
19	154m W	511070 220650	LUTON EASTERN BY-PASS 48	16.0	N	528471
20	159m NE	512580 222300	WIGMORE HALL FARM LUTON TH 2	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
21	164m E	512460 222370	WIGMORE HALL FARM LUTON TH 7	-	Y	N/A
E	164m W	511050 220710	LUTON EASTERN BY-PASS 53	4.2	N	528475
E	165m W	511050 220730	LUTON EASTERN BY-PASS 56	6.8	N	528478
22	167m S	512192 221666	LUTON INTERNATIONAL AIR. BH15	7.95	N	528618
23	171m NW	510990 221580	LUTON EASTERN BY-PASS 63	3.5	N	528485
24	172m NW	512080 222500	WIGMORE LUTON 2	-	Y	N/A
25	174m N	512130 222520	WIGMORE LUTON 4	-	Y	N/A
26	179m NW	511000 221610	LUTON EASTERN BY-PASS 64	11.5	N	528486
E	184m W	511030 220700	LUTON EASTERN BY-PASS 52	12.5	N	528474
E	185m W	511030 220730	LUTON EASTERN BY-PASS 55	6.4	N	528477
27	187m W	511030 220670	LUTON EASTERN BY-PASS 49	4.5	N	528472
F	189m NW	511010 221640	LUTON EASTERN BY-PASS 67	5.5	N	528489
28	195m W	511030 220640	LUTON EASTERN BY-PASS 46	17.0	N	528470
29	196m NE	512570 222350	WIGMORE HALL FARM LUTON TH 3	-	Y	N/A
30	203m N	512180 222560	WIGMORE LUTON 6	-	Y	N/A
F	204m NW	510990 221640	LUTON EASTERN BY-PASS 66	4.0	N	528488
31	207m W	511030 220830	LUTON EASTERN BY-PASS 58	18.5	N	528480
32	207m NW	510960 221600	LUTON EASTERN BY-PASS 62	9.5	N	528484
33	208m NW	512060 222530	WIGMORE LUTON 1	-	Y	N/A
F	209m NW	511000 221660	LUTON EASTERN BY-PASS 70	10.5	N	528491
F	215m NW	510970 221630	LUTON EASTERN BY-PASS 65	10.5	N	528487
F	217m NW	510990 221660	LUTON EASTERN BY-PASS 69	3.5	N	528490
34	221m W	510876 221177	VAUXHALL MOTORS LUTON 4	-	Y	N/A
35	221m N	512100 222560	WIGMORE LUTON 3	-	Y	N/A
G	228m NW	511000 221690	LUTON EASTERN BY-PASS 73	3.5	N	528494
G	236m NW	510990 221690	LUTON EASTERN BY-PASS 72	3.0	N	528493
36	237m N	512150 222590	WIGMORE LUTON 5	-	Y	N/A
H	245m W	510850 221260	VAUXHALL MOTORS LTD LUTON	111.55	N	528525

ID	Location	Grid reference	Name	Length	Confidential	Web link
H	245m W	510850 221260	VAUXHALL MOTORS LTD LUTON	111.55	N	528526

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	4

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).

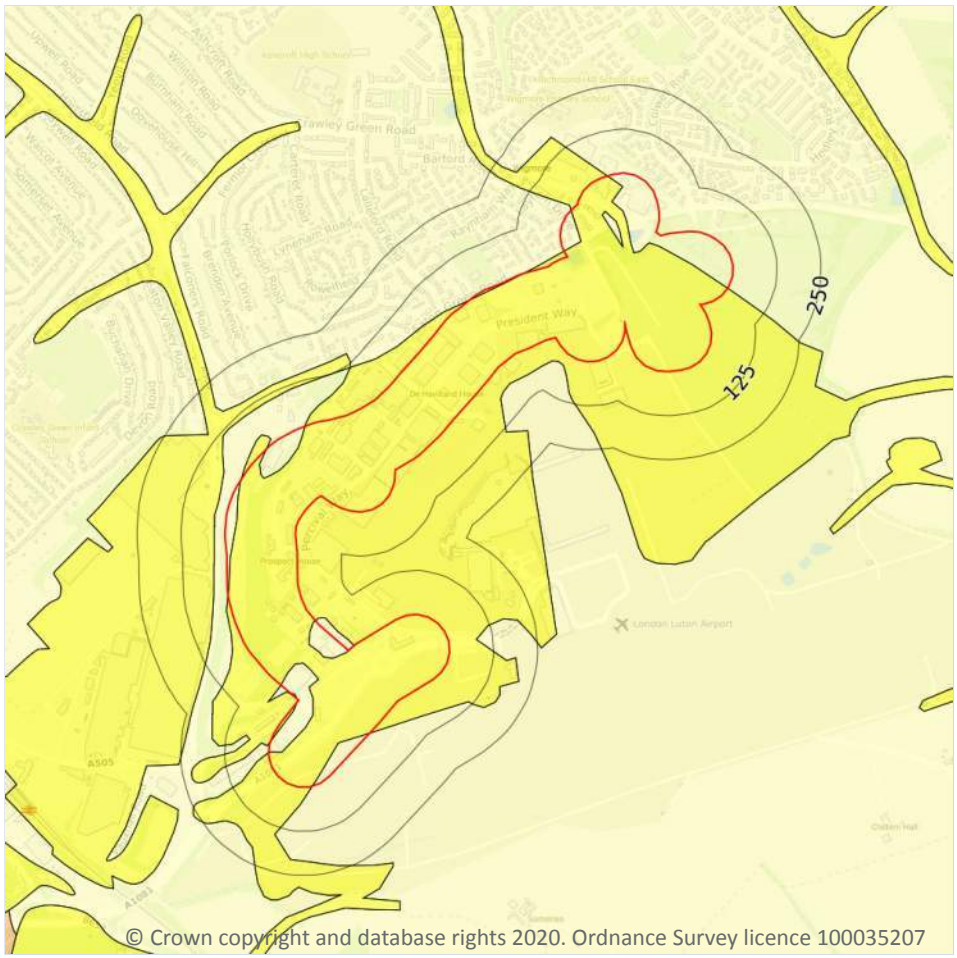
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 124**

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
31m W	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	3

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.

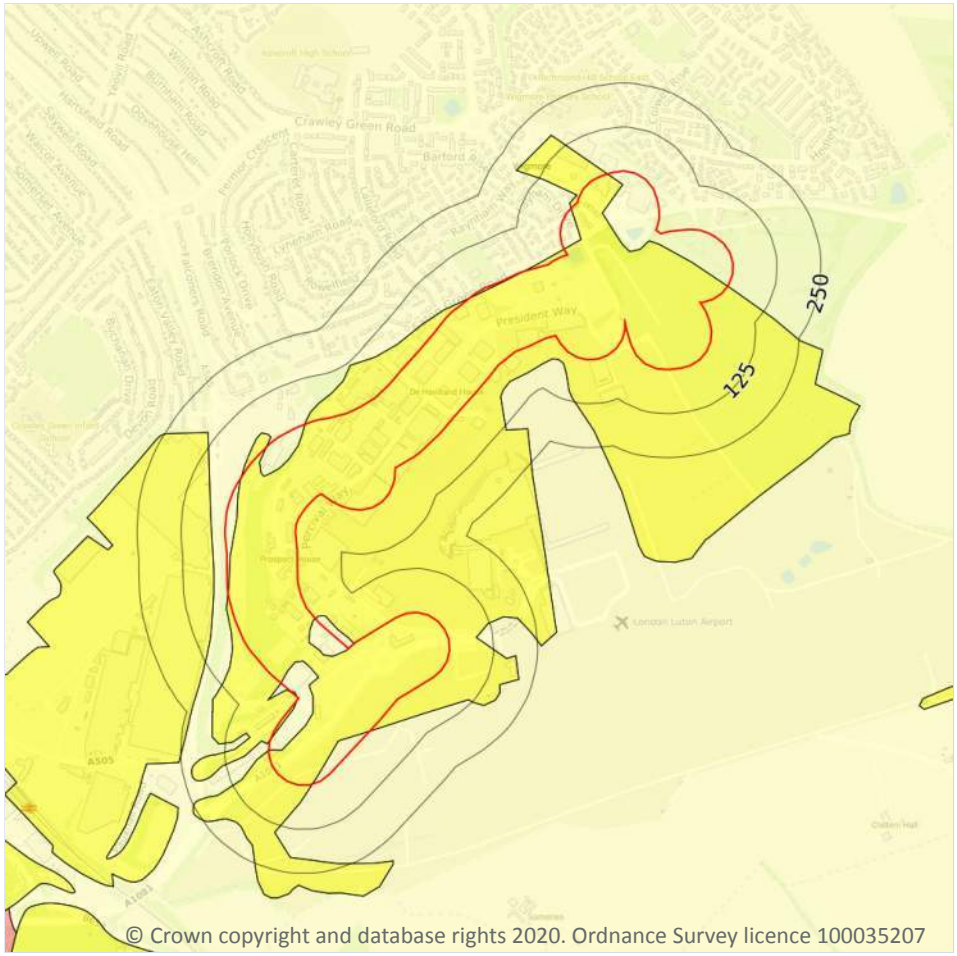
Features are displayed on the Natural ground subsidence - Running sands map on **page 126**

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.**
31m W	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

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.

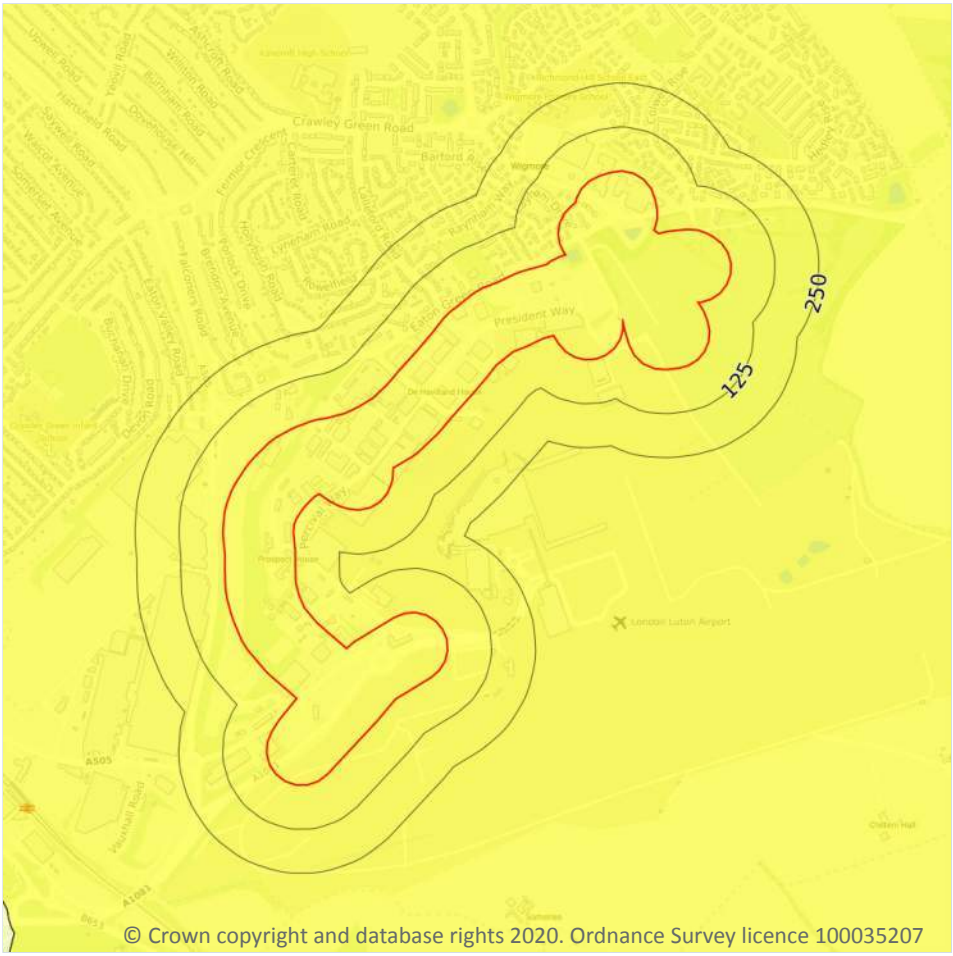
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 128**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
On site	**Very low**	**Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.**

Location	Hazard rating	Details
38m W	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	1

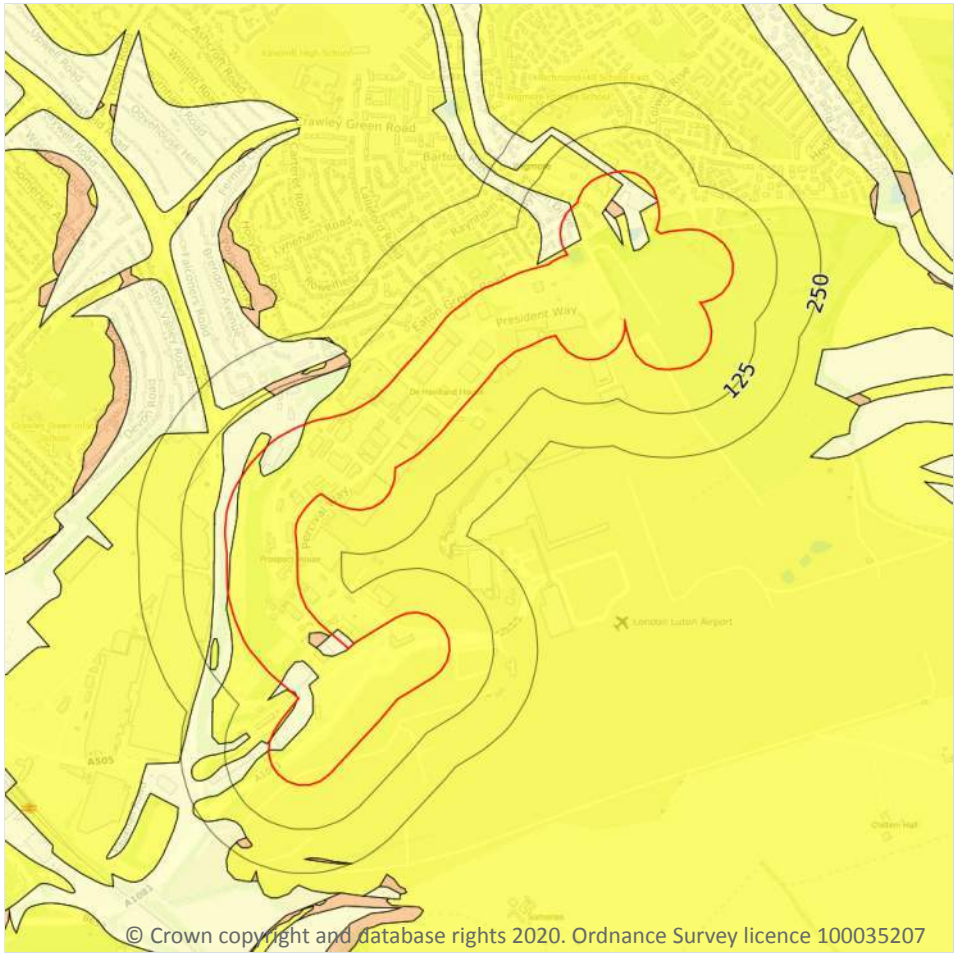
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 130**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	3

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.

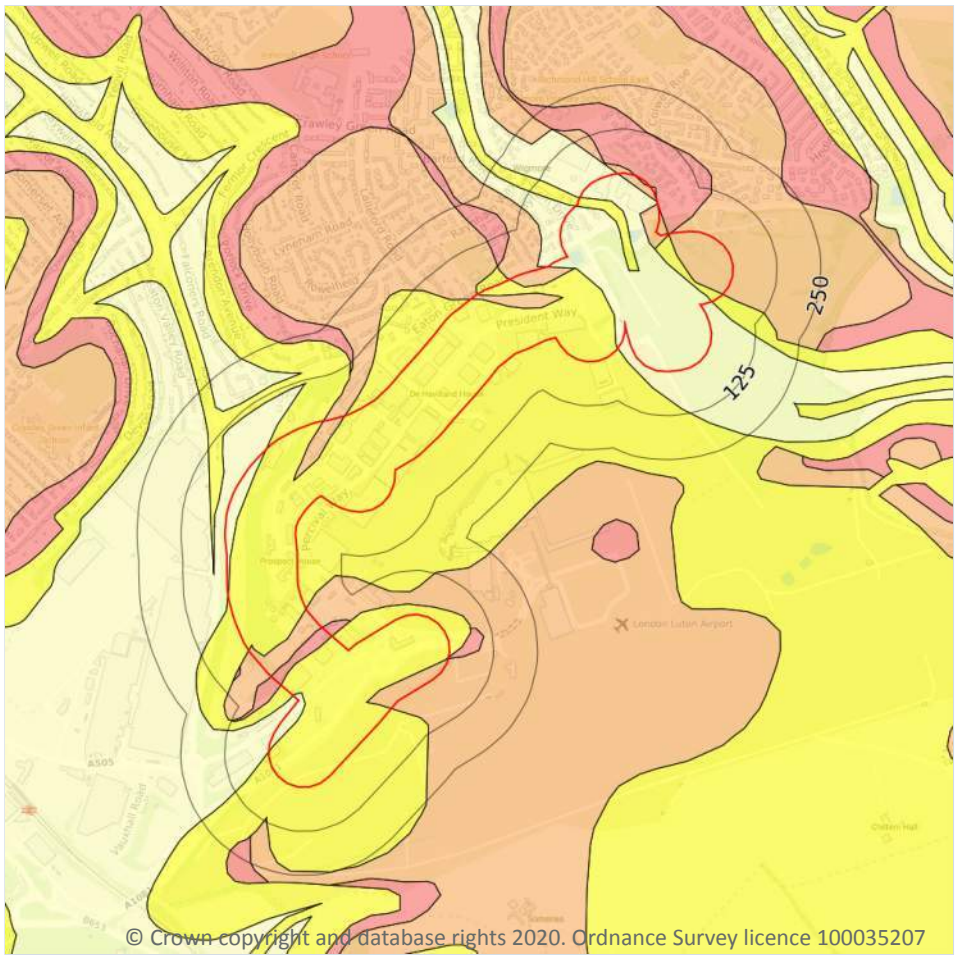
Features are displayed on the Natural ground subsidence - Landslides map on **page 131**

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

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.**
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	6

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.

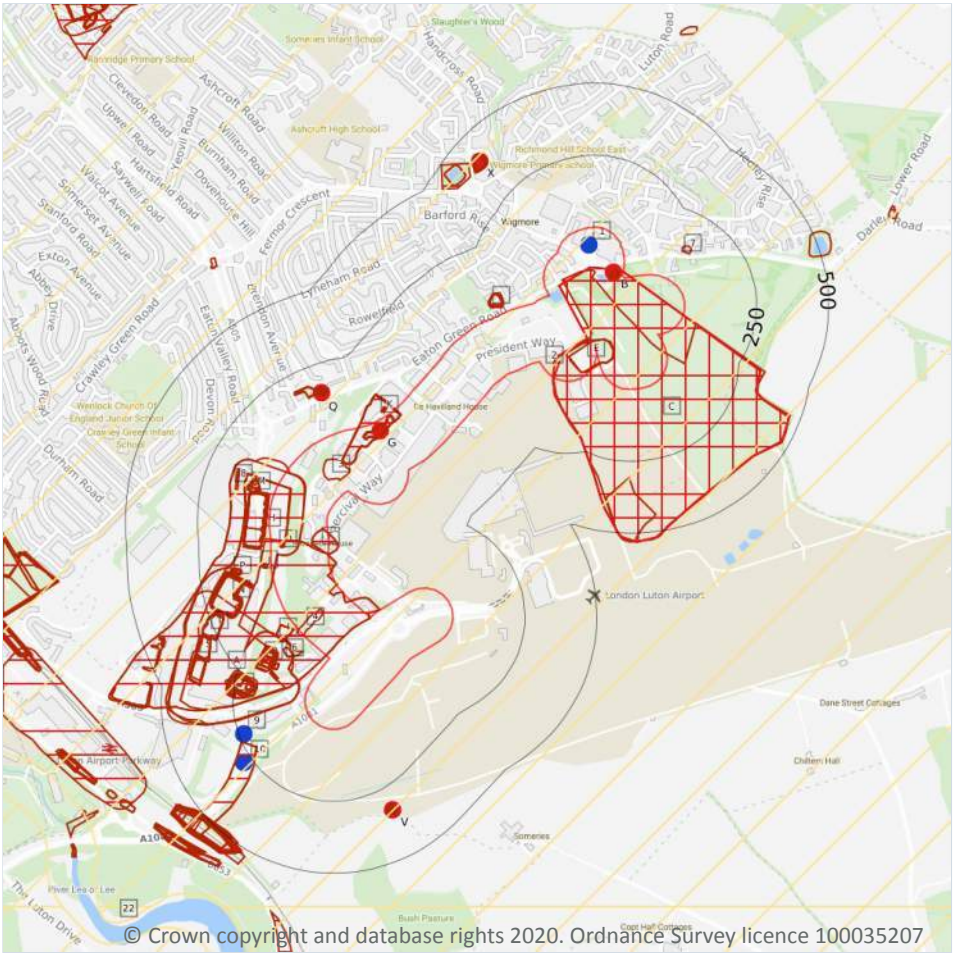
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 133**

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.**

Location	Hazard rating	Details
On site	**Very low**	**Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.**
On site	**Low**	**Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.**
On site	**Moderate**	**Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.**
48m SW	Moderate	Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.
50m NW	Moderate	Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m	3

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 135**

ID	Location	Details	Source
1	**On site**	**Type: Solution Pipe x 15** **Superficial Geology: Clay-with-Flints, Made Ground** **Bedrock Geology: Chalk Group**	**Simple Bibliography: -** **Full Bibliography: EDMONDS, C.N., The engineering geomorphology of karst development and the prediction of subsidence risk upon the chalk outcrop in England. Unpublished PhD thesis, University of London., , 1987;** **Confidentiality: Data source can be revealed, data can be used freely**
9	234m W	Type: Solution Pipe x 3 Superficial Geology: Clay-with-Flints Bedrock Geology: Chalk Group	Simple Bibliography: - Full Bibliography: EDMONDS, C.N., The engineering geomorphology of karst development and the prediction of subsidence risk upon the chalk outcrop in England. Unpublished PhD thesis, University of London., , 1987; Confidentiality: Data source can be revealed, data can be used freely
10	281m SW	Type: Solution Pipe x 3 Superficial Geology: Clay-with-Flints Bedrock Geology: Chalk Group	Simple Bibliography: C.N Edmonds (Personal Correspondence) Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely

This data is sourced from Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m **6**

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, ground workings and natural cavities map on **page 135**

ID	Location	Details	Description
B	**On site**	**Name: Wigmore Hall Gravel Pit** **Address: LUTON, Bedfordshire** **Commodity: Sand & Gravel** **Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site**	**Type: Ceased** **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**

ID	Location	Details	Description
G	**On site**	**Name: Eaton Green Brick & Tile Works** **Address: LUTON, Bedfordshire** **Commodity: Clay & Shale** **Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site**	**Type: Ceased** **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**
Q	150m N	Name: Eaton Green Chalk Pit Address: LUTON, Bedfordshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
Q	150m N	Name: Eaton Green Chalk Pit Address: LUTON, Bedfordshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
V	332m SE	Name: Someries Chalk Pit Address: LUTON, Bedfordshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
X	401m NW	Name: Wigmore Lane Chalk Pit Address: Slaughter's Wood, LUTON, Bedfordshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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.

18.3 Surface ground workings

Records within 250m **165**

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, ground workings and natural cavities map on **page 135**

ID	Location	Land Use	Year of mapping	Mapping scale
3	**On site**	**Unspecified Ground Workings**	**1973**	**1:10000**
4	**On site**	**Ponds**	**1973**	**1:10000**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Sewage Farm	1922	1:10560
A	On site	Sewage Farm	1947	1:10560
A	On site	Sewage Farm	1938	1:10560
A	On site	Sewage Farm	1922	1:10560
A	On site	Sewage Farm	1922	1:10560
B	On site	Unspecified Pit	1947	1:10560
B	On site	Unspecified Pit	1925	1:10560
B	On site	Unspecified Pit	1951	1:10560
B	On site	Old Gravel Pit	1899	1:10560
B	On site	Old Gravel Pit	1879	1:10560
B	On site	Old Gravel Pit	1899	1:10560
B	On site	Unspecified Pit	1925	1:10560
B	On site	Old Gravel Pit	1888	1:10560
C	On site	Unspecified Workings	1991	1:10000
C	On site	Unspecified Workings	1985	1:10000
C	On site	Refuse Heap	1973	1:10000
D	On site	Sludge Pit	1947	1:10560
D	On site	Sludge Pit	1922	1:10560
D	On site	Sludge Pit	1938	1:10560
D	On site	Sludge Pit	1938	1:10560
D	On site	Sludge Pit	1938	1:10560
D	On site	Sludge Pit	1922	1:10560
D	On site	Sludge Pit	1938	1:10560
D	On site	Sludge Pit	1922	1:10560
E	On site	Unspecified Pit	1991	1:10000
E	On site	Unspecified Pit	1985	1:10000
F	On site	Unspecified Ground Workings	1985	1:10000
F	On site	Unspecified Ground Workings	1973	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
G	**On site**	**Brick and Tile Works**	**1879**	**1:10560**
G	**On site**	**Clay Pit**	**1879**	**1:10560**
G	**On site**	**Brick and Tile Works**	**1879**	**1:10560**
G	**On site**	**Brick and Tile Works**	**1888**	**1:10560**
G	**On site**	**Clay Pit**	**1888**	**1:10560**
G	**On site**	**Brick and Tile Works**	**1888**	**1:10560**
G	**On site**	**Clay Pit**	**1888**	**1:10560**
H	7m W	Unspecified Ground Workings	1938	1:10560
H	10m W	Unspecified Ground Workings	1938	1:10560
H	10m W	Unspecified Ground Workings	1922	1:10560
H	10m W	Unspecified Ground Workings	1938	1:10560
H	10m W	Unspecified Ground Workings	1922	1:10560
H	10m W	Filter Beds	1938	1:10560
H	11m W	Filter Beds	1947	1:10560
H	11m W	Filter Beds	1922	1:10560
I	13m SW	Unspecified Heap	1991	1:10000
I	13m SW	Unspecified Heap	1985	1:10000
I	13m SW	Unspecified Heap	1973	1:10000
H	14m W	Filter Beds	1938	1:10560
H	15m W	Filter Beds	1938	1:10560
H	15m W	Filter Beds	1922	1:10560
H	15m W	Filter Beds	1938	1:10560
H	15m W	Filter Beds	1922	1:10560
J	15m W	Sedimentation Tanks	1938	1:10560
J	15m W	Sedimentation Tanks	1938	1:10560
J	15m W	Sedimentation Tanks	1938	1:10560
J	15m W	Sedimentation Tanks	1922	1:10560
J	15m W	Sedimentation Tanks	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
J	15m W	Sedimentation Tanks	1922	1:10560
J	16m W	Sedimentation Tanks	1947	1:10560
J	16m W	Sedimentation Tanks	1922	1:10560
K	16m NW	Brick Kiln	1879	1:10560
K	16m NW	Brick Kiln	1879	1:10560
K	18m NW	Brick Kiln	1888	1:10560
K	18m NW	Brick Kiln	1888	1:10560
L	22m NW	Unspecified Pit	1938	1:10560
L	25m NW	Unspecified Pit	1951	1:10560
L	25m NW	Unspecified Pit	1947	1:10560
L	25m NW	Unspecified Pit	1922	1:10560
L	25m NW	Unspecified Pit	1938	1:10560
L	25m NW	Unspecified Pit	1938	1:10560
L	25m NW	Unspecified Pit	1922	1:10560
L	25m NW	Unspecified Pit	1938	1:10560
L	25m NW	Unspecified Pit	1922	1:10560
5	27m W	Sewage Farm	1900	1:10560
6	44m SW	Ponds	1973	1:10000
M	50m W	Sedimentation Tanks	1938	1:10560
M	50m W	Sedimentation Tanks	1922	1:10560
M	50m W	Sedimentation Tanks	1938	1:10560
M	50m W	Sedimentation Tanks	1922	1:10560
M	55m W	Sedimentation Tanks	1938	1:10560
M	56m W	Sedimentation Tanks	1922	1:10560
M	70m W	Sedimentation Tanks	1922	1:10560
N	74m W	Unspecified Ground Workings	1938	1:10560
N	77m W	Unspecified Ground Workings	1938	1:10560
N	77m W	Unspecified Ground Workings	1922	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
N	77m W	Unspecified Ground Workings	1938	1:10560
N	77m W	Unspecified Ground Workings	1922	1:10560
M	79m W	Sedimentation Tanks	1922	1:10560
N	103m W	Filter Beds	1938	1:10560
O	104m SW	Unspecified Ground Workings	1938	1:10560
N	104m W	Filter Beds	1947	1:10560
N	104m W	Filter Beds	1922	1:10560
P	104m W	Sedimentation Tanks	1938	1:10560
P	104m W	Sedimentation Tanks	1922	1:10560
P	104m W	Sedimentation Tanks	1938	1:10560
P	104m W	Sedimentation Tanks	1922	1:10560
O	109m SW	Sewage Tanks	1947	1:10560
O	109m SW	Sewage Tanks	1922	1:10560
P	109m W	Sedimentation Tanks	1938	1:10560
P	110m W	Sedimentation Tanks	1947	1:10560
P	110m W	Sedimentation Tanks	1922	1:10560
O	110m W	Sewage Tanks	1900	1:10560
O	110m SW	Sewage Tanks	1938	1:10560
7	110m NE	Pond	1879	1:10560
O	112m W	Sewage Tanks	1947	1:10560
O	112m W	Sewage Tanks	1922	1:10560
O	113m SW	Sewage Tanks	1938	1:10560
O	113m W	Sewage Tanks	1938	1:10560
O	115m SW	Unspecified Heap	1973	1:10000
O	115m SW	Ponds	1900	1:10560
O	119m SW	Sewage Tanks	1938	1:10560
O	119m SW	Sewage Tanks	1922	1:10560
O	119m SW	Sewage Tanks	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
O	119m SW	Sewage Tanks	1922	1:10560
8	125m W	Sedimentation Tanks	1947	1:10560
O	126m NW	Sewage Tanks	1938	1:10560
O	126m NW	Sewage Tanks	1922	1:10560
O	126m NW	Sewage Tanks	1938	1:10560
O	126m NW	Sewage Tanks	1922	1:10560
P	128m W	Sedimentation Tanks	1938	1:10560
P	129m W	Sedimentation Tanks	1947	1:10560
P	129m W	Sedimentation Tanks	1922	1:10560
Q	139m N	Old Chalk Pit	1879	1:10560
Q	141m N	Old Chalk Pit	1888	1:10560
Q	141m N	Old Chalk Pit	1888	1:10560
Q	145m N	Unspecified Pit	1938	1:10560
Q	146m N	Unspecified Ground Workings	1947	1:10560
Q	146m N	Unspecified Ground Workings	1922	1:10560
Q	146m N	Unspecified Ground Workings	1900	1:10560
Q	147m N	Unspecified Pit	1951	1:10560
Q	147m N	Unspecified Ground Workings	1985	1:10000
Q	150m N	Unspecified Ground Workings	1991	1:10000
O	152m SW	Sewage Tanks	1938	1:10560
O	152m SW	Sewage Tanks	1922	1:10560
O	152m SW	Sewage Tanks	1938	1:10560
O	152m SW	Sewage Tanks	1922	1:10560
R	170m W	Sewage Tanks	1938	1:10560
R	171m W	Sewage Tanks	1947	1:10560
R	171m W	Sewage Tanks	1922	1:10560
R	171m W	Unspecified Ground Workings	1938	1:10560
R	178m W	Ponds	1900	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
R	182m W	Sewage Tanks	1938	1:10560
R	182m W	Sewage Tanks	1922	1:10560
R	182m W	Sewage Tanks	1938	1:10560
R	182m W	Sewage Tanks	1922	1:10560
R	183m W	Sewage Tanks	1938	1:10560
R	200m W	Sewage Tanks	1938	1:10560
R	200m W	Sewage Tanks	1922	1:10560
R	200m W	Sewage Tanks	1938	1:10560
R	200m W	Sewage Tanks	1922	1:10560
S	203m W	Ponds	1938	1:10560
T	204m SW	Pond	1938	1:10560
T	204m SW	Pond	1947	1:10560
T	204m SW	Pond	1922	1:10560
T	206m SW	Pond	1938	1:10560
T	206m SW	Pond	1922	1:10560
T	206m SW	Pond	1938	1:10560
T	206m SW	Pond	1922	1:10560
U	214m SW	Cuttings	1991	1:10000
U	214m SW	Cuttings	1985	1:10000
R	221m W	Sewage Tanks	1938	1:10560
R	221m W	Sewage Tanks	1922	1:10560
R	221m W	Sewage Tanks	1938	1:10560
R	221m W	Sewage Tanks	1922	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 135**

ID	Location	Land Use	Year of mapping	Mapping scale
C	**On site**	**Unspecified Workings**	**1991**	**1:10000**
C	**On site**	**Unspecified Workings**	**1985**	**1:10000**

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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	4

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).

Features are displayed on the Mining, ground workings and natural cavities map on **page 135**

ID	Location	Name	Commodity	Class	Likelihood
2	**On site**	**Not available**	**Chalk**	**A**	**Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered**
15	617m S	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

ID	Location	Name	Commodity	Class	Likelihood
21	849m SW	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
22	857m SW	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	**0**

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 Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site	**0**

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

This data is sourced from Johnson Poole and Bloomer.

18.9 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.

18.10 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.

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 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 Radon

Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site	1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 147**

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

This data is sourced from the British Geological Survey and Public Health England.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	63

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 km^2. 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 km^2; 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**	**15 - 30 mg/kg**
On site	**15 - 25 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 - 25 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 - 25 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 - 25 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 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 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 - 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**	**15 - 30 mg/kg**
On site	**15 - 25 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 - 25 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 - 25 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 - 25 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 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 25 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 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 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 - 25 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 - 25 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

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	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 - 200 mg/kg	60 - 120 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	45 - 60 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	45 - 60 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	45 - 60 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	45 - 60 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 - 200 mg/kg	60 - 120 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 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
1m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	45 - 60 mg/kg
4m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
4m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
7m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
10m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
14m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
23m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
27m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
31m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
31m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
37m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
45m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
48m W	15 - 25 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.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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 km^2).

This data is sourced from the British Geological Survey.

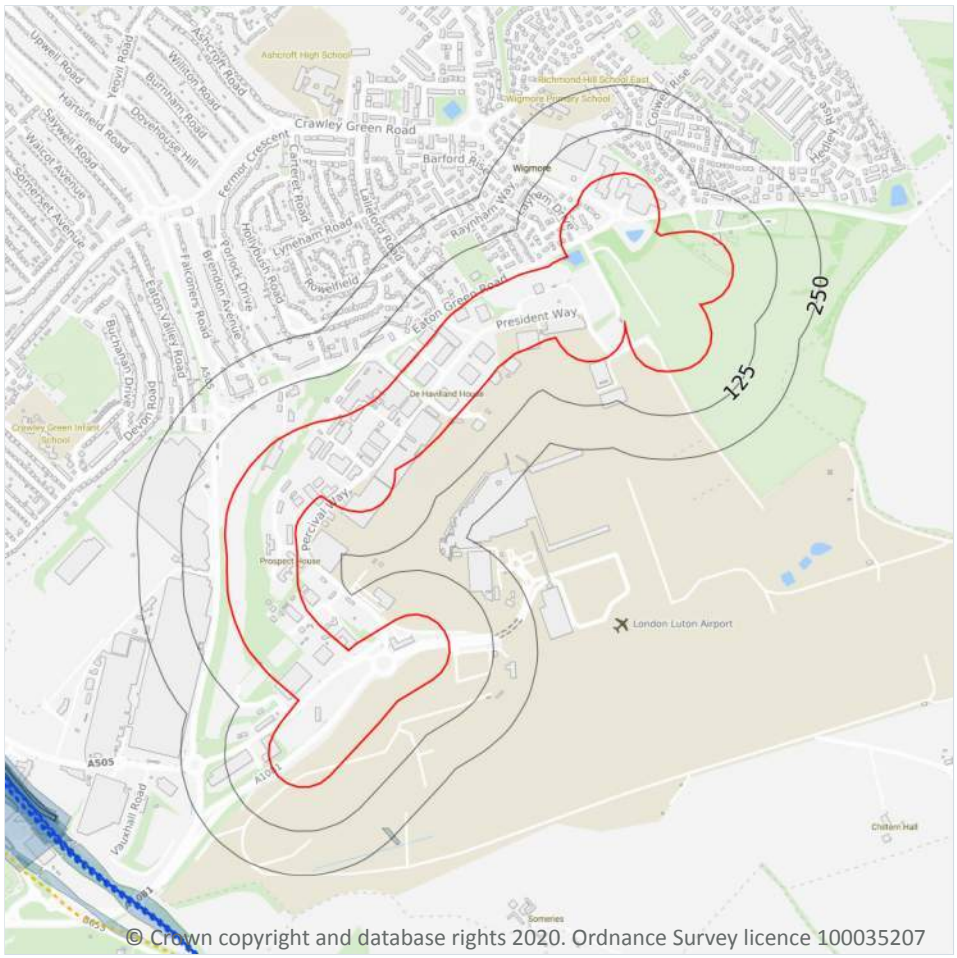
20.3 BGS Measured Urban Soil Chemistry

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^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 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.

21.2 Underground railways (Non-London)

Records within 250m	0

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.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	1

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.

Features are displayed on the Railway infrastructure and projects map on **page 153**

Location	Land Use	Year of mapping	Mapping scale
210m SE	Railway Sidings	1962	1250

This data is sourced from Ordnance Survey/Groundsure.

21.5 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.

21.6 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.

21.7 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.

21.8 Crossrail 1

Records within 500m	0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 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.

21.10 HS2

Records within 500m	0

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.

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 https://www.groundsure.com/sources-reference.

Terms and conditions

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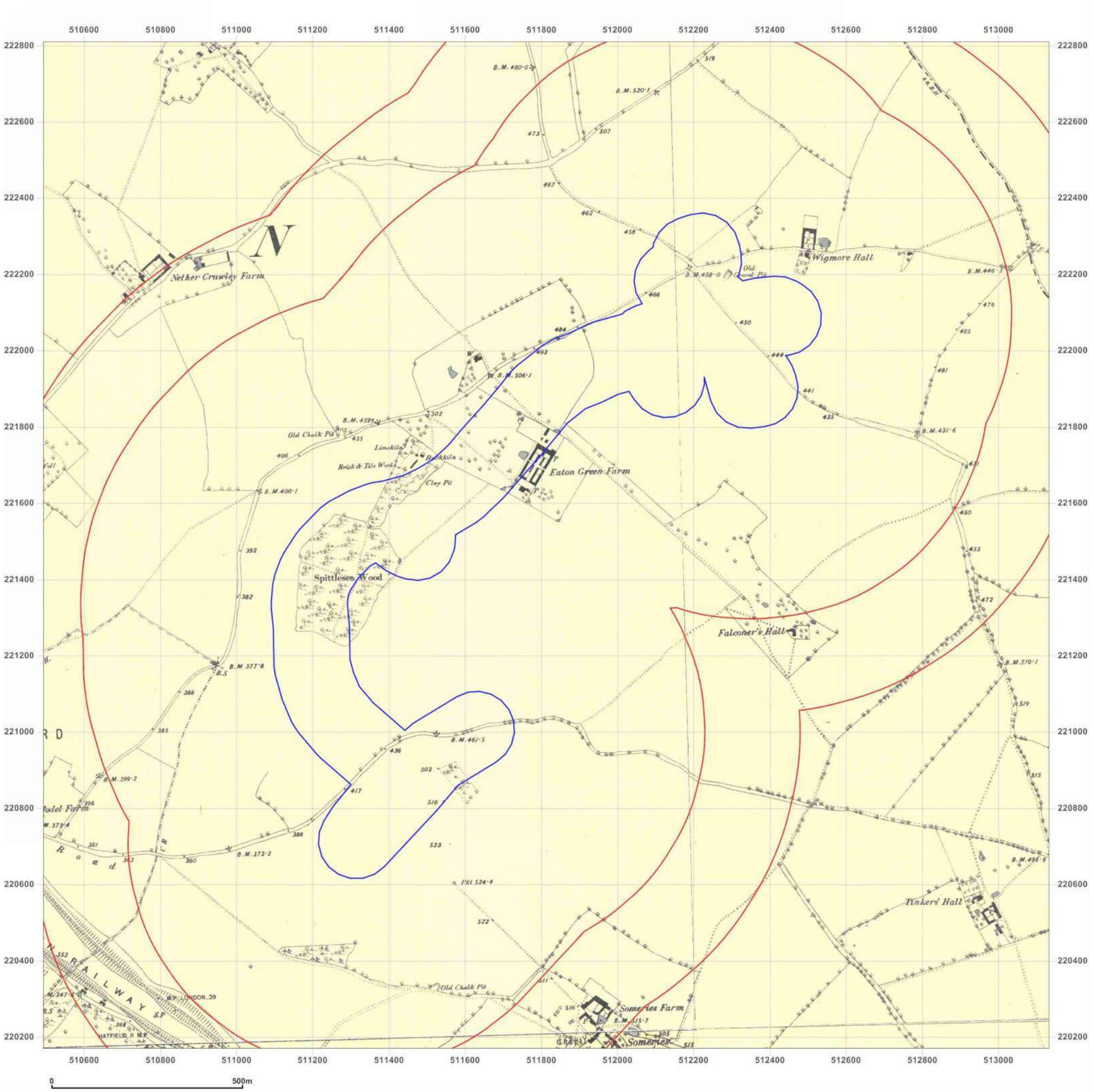

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: County Series

Map date: **1879**

Scale: 1:10,560

Printed at: 1:10,560

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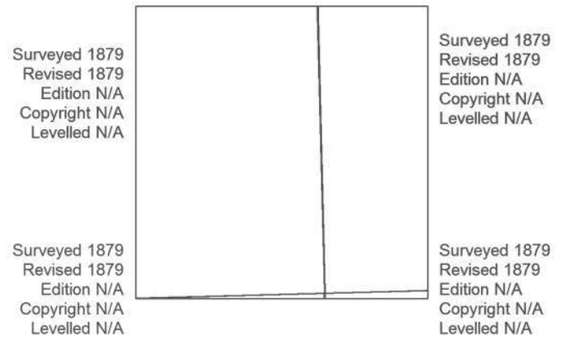

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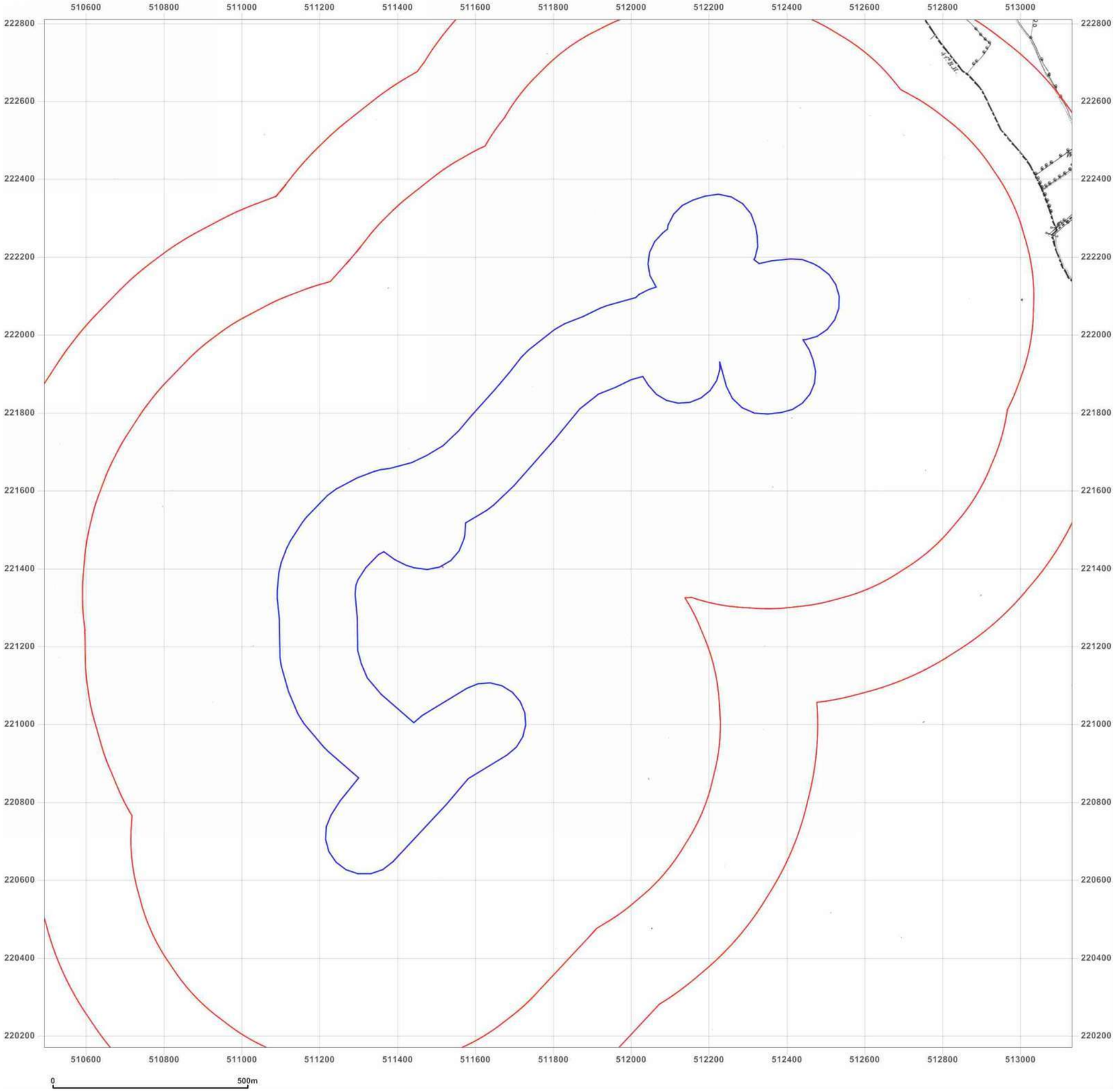
Production date: 23 November 2020

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: County Series

Map date: **1884**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1881
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A

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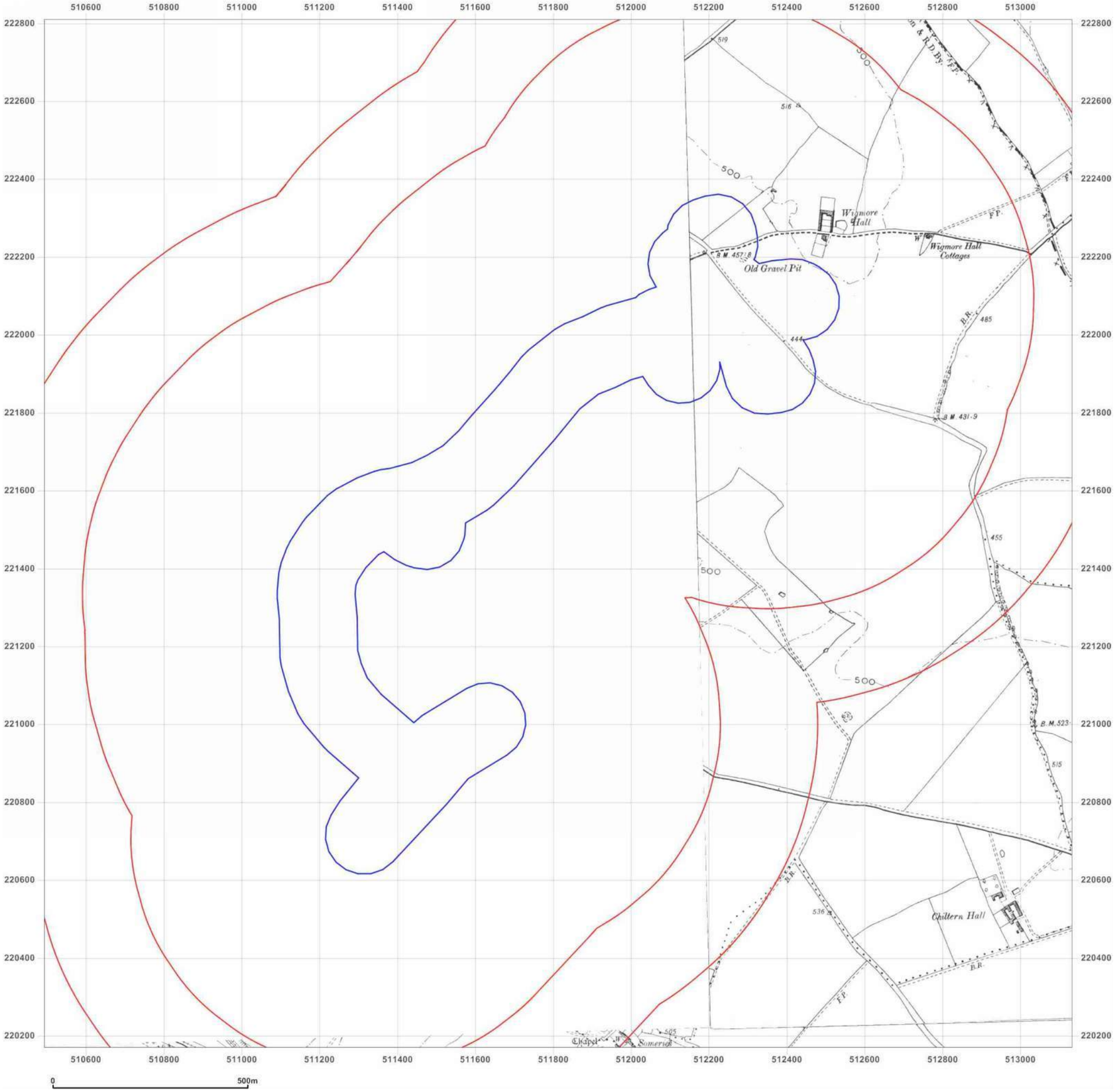
Production date: 23 November 2020

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

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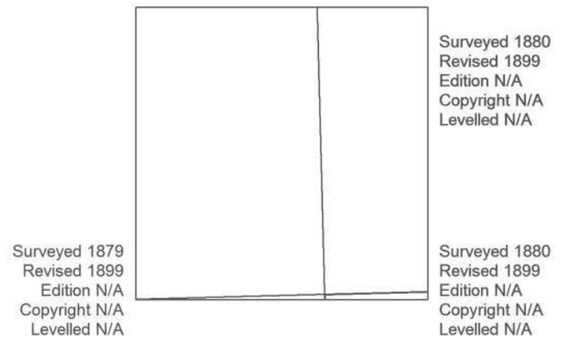

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Production date: 23 November 2020

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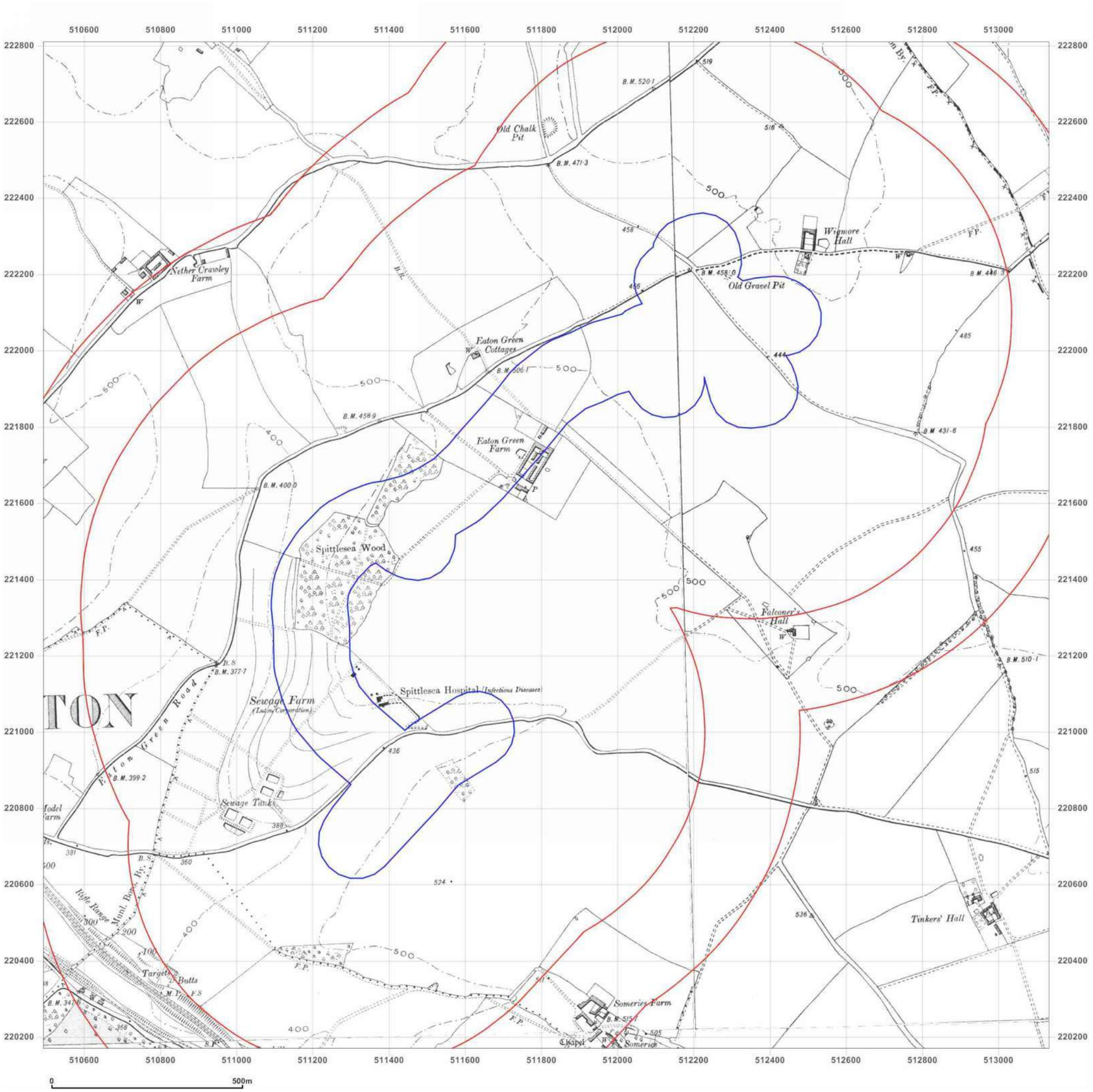

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: County Series

Map date: **1899-1900**

Scale: 1:10,560

Printed at: 1:10,560

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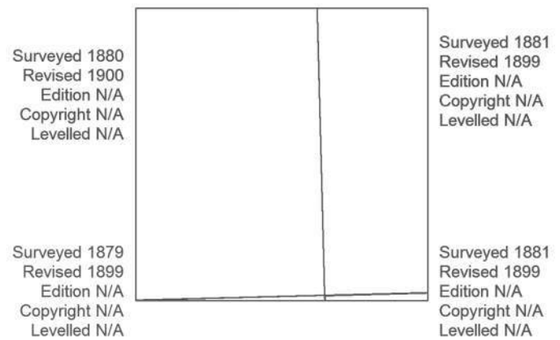

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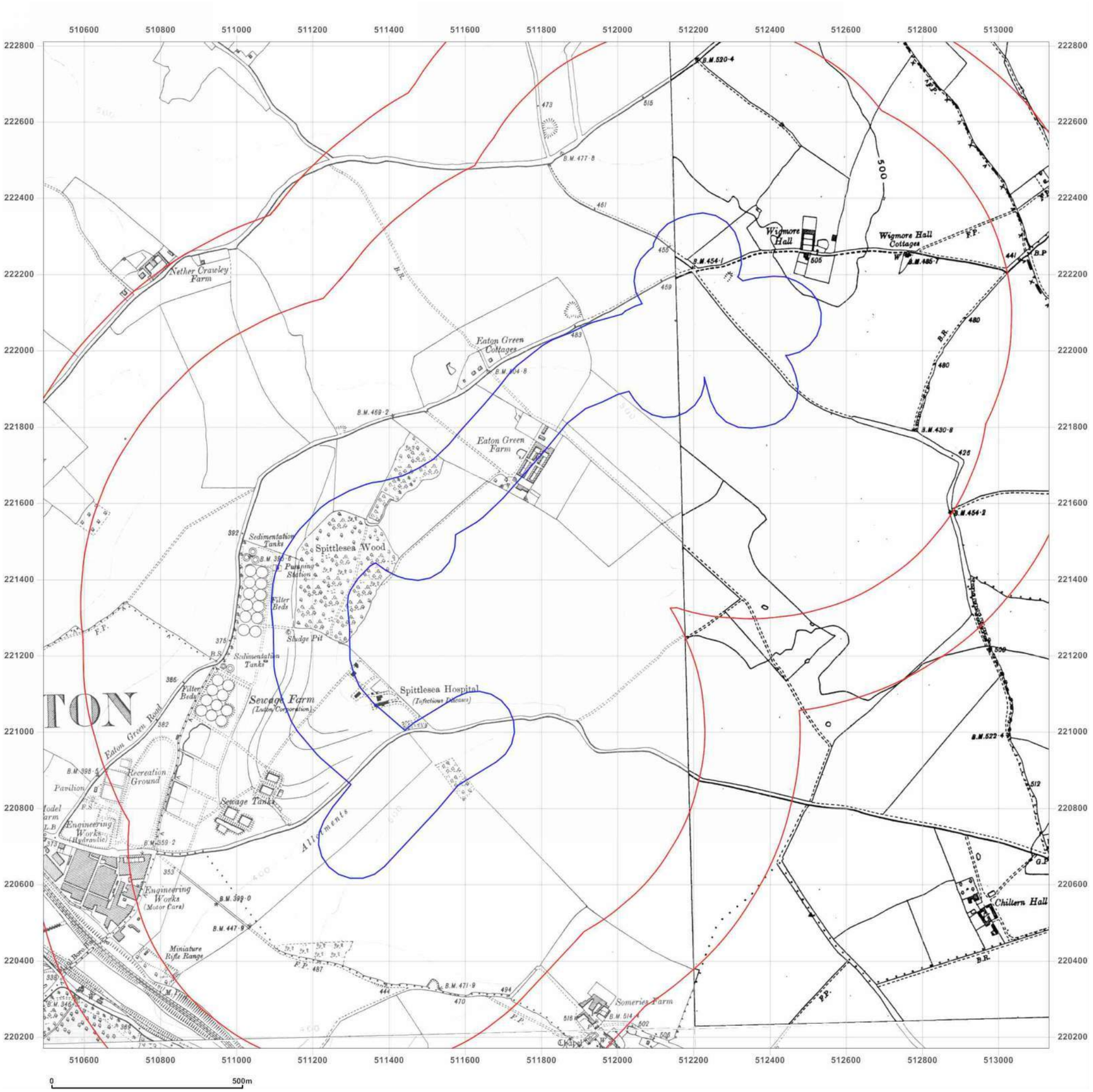
Production date: 23 November 2020

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: County Series

Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

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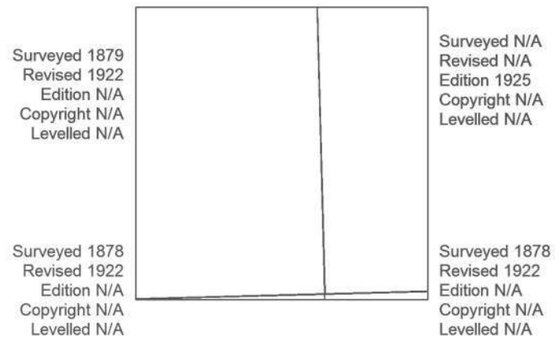

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Production date: 23 November 2020

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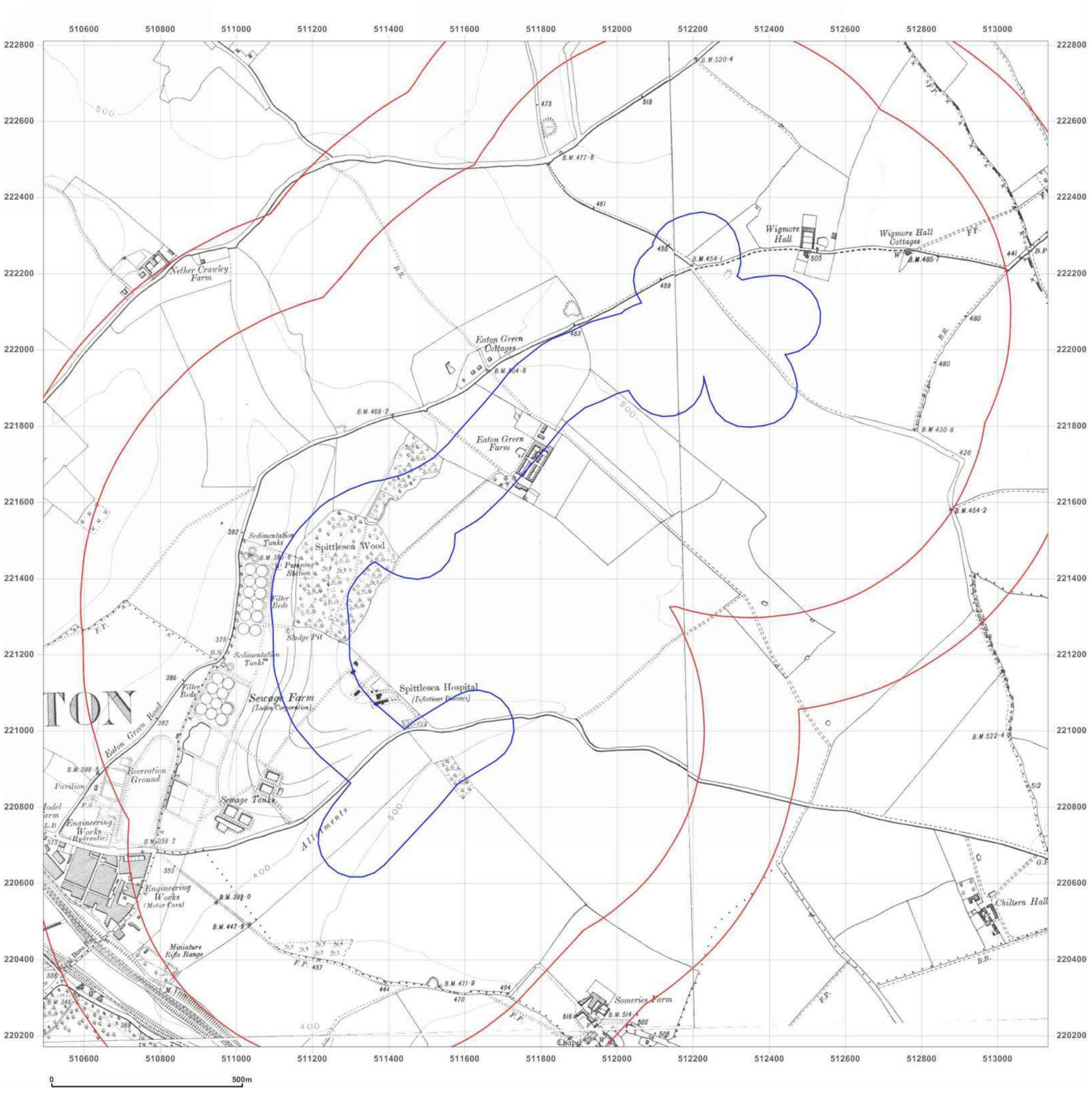

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: County Series

Map date: **1922-1925**

Scale: 1:10,560

Printed at: 1:10,560

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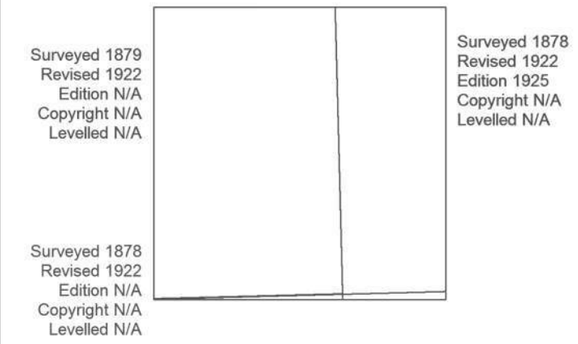

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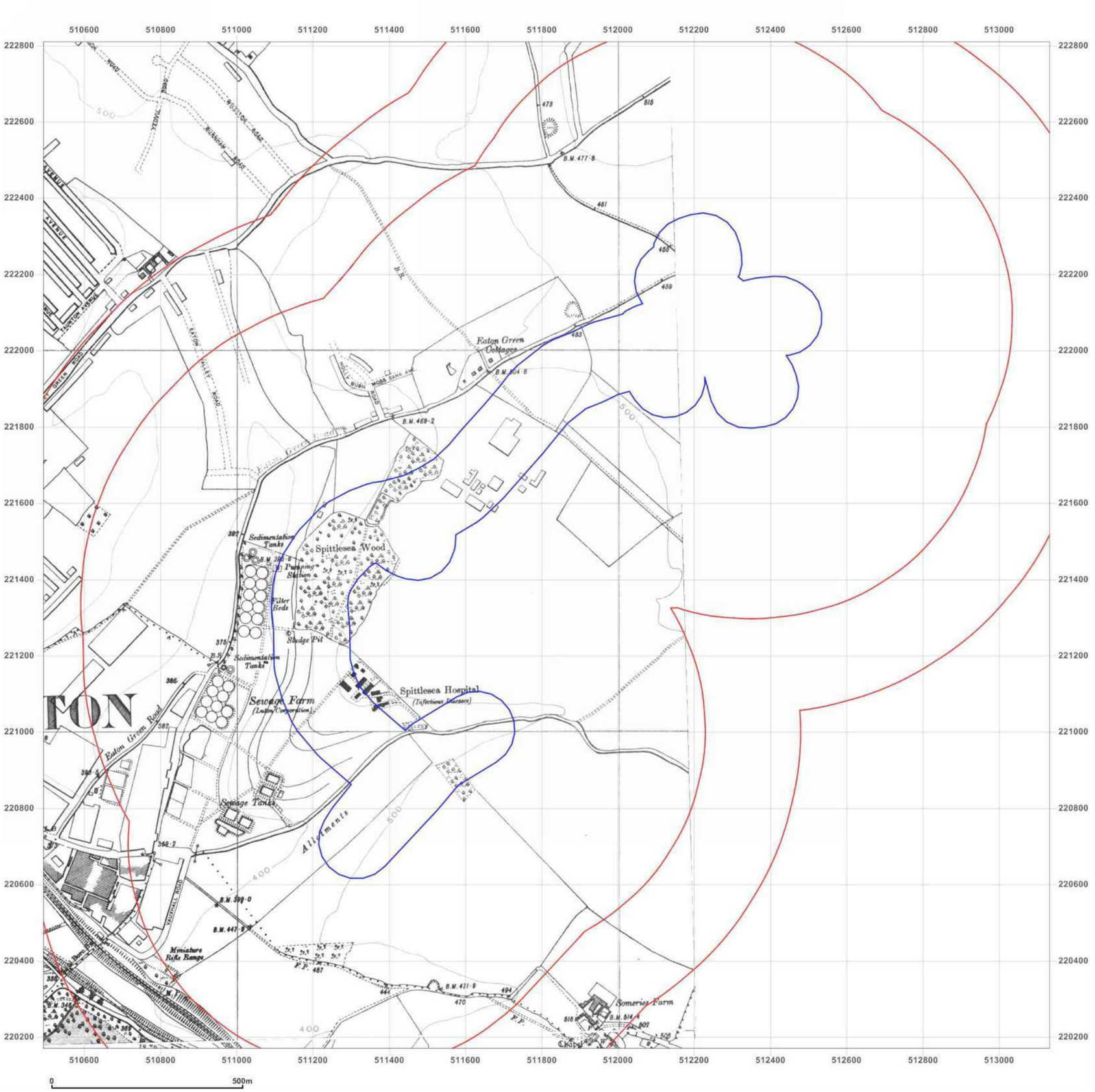

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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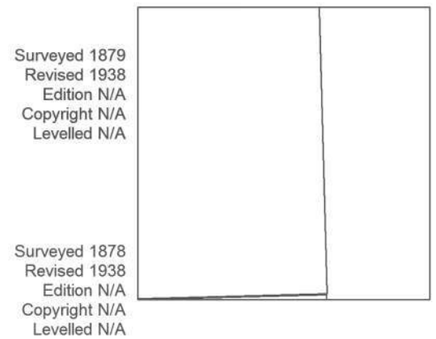

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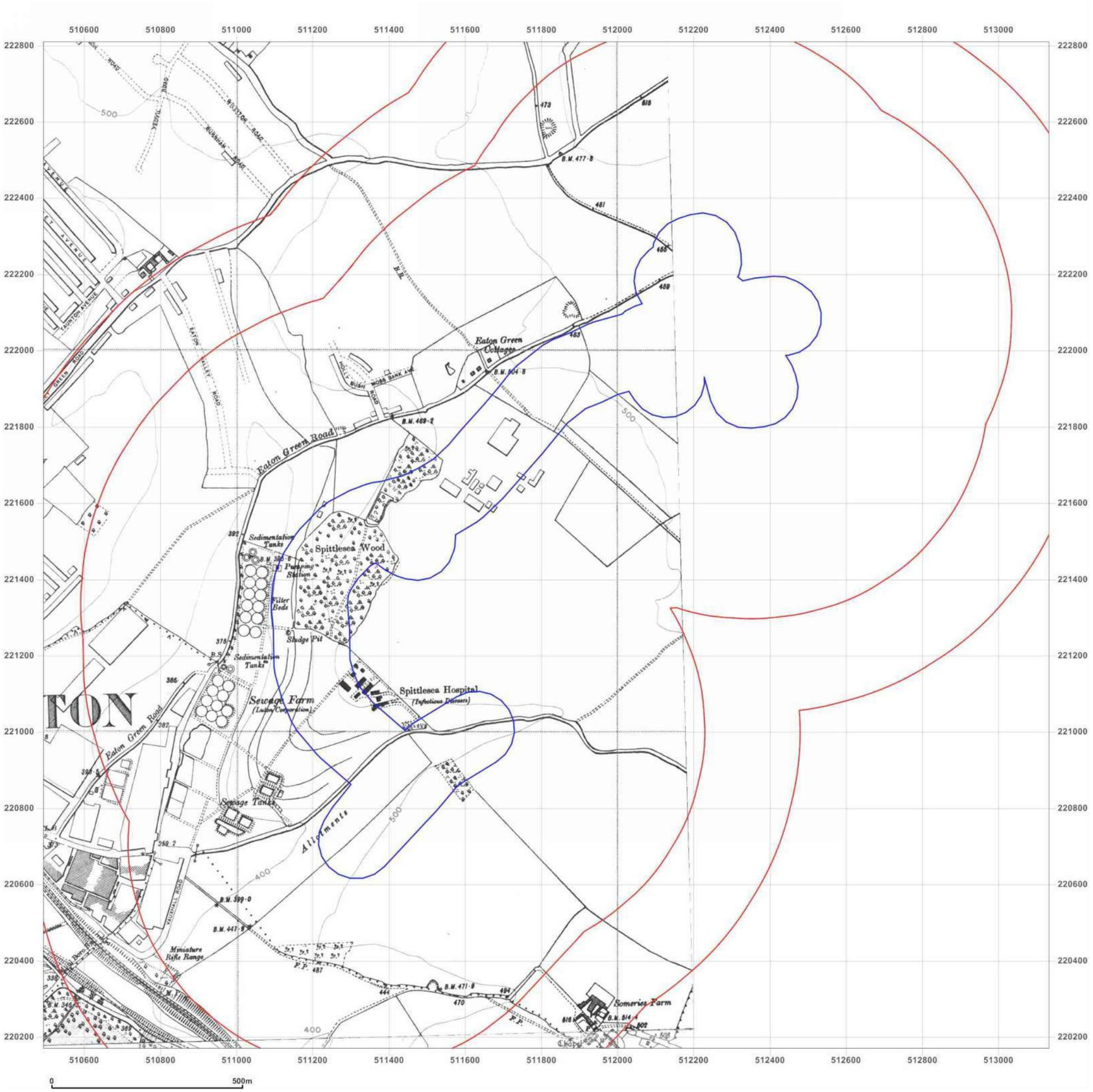

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

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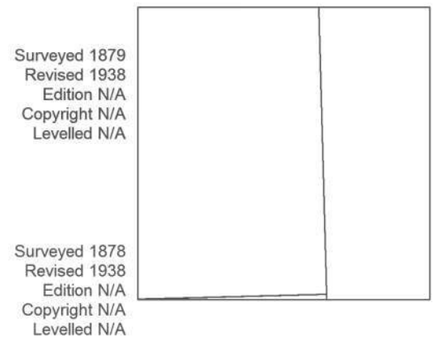

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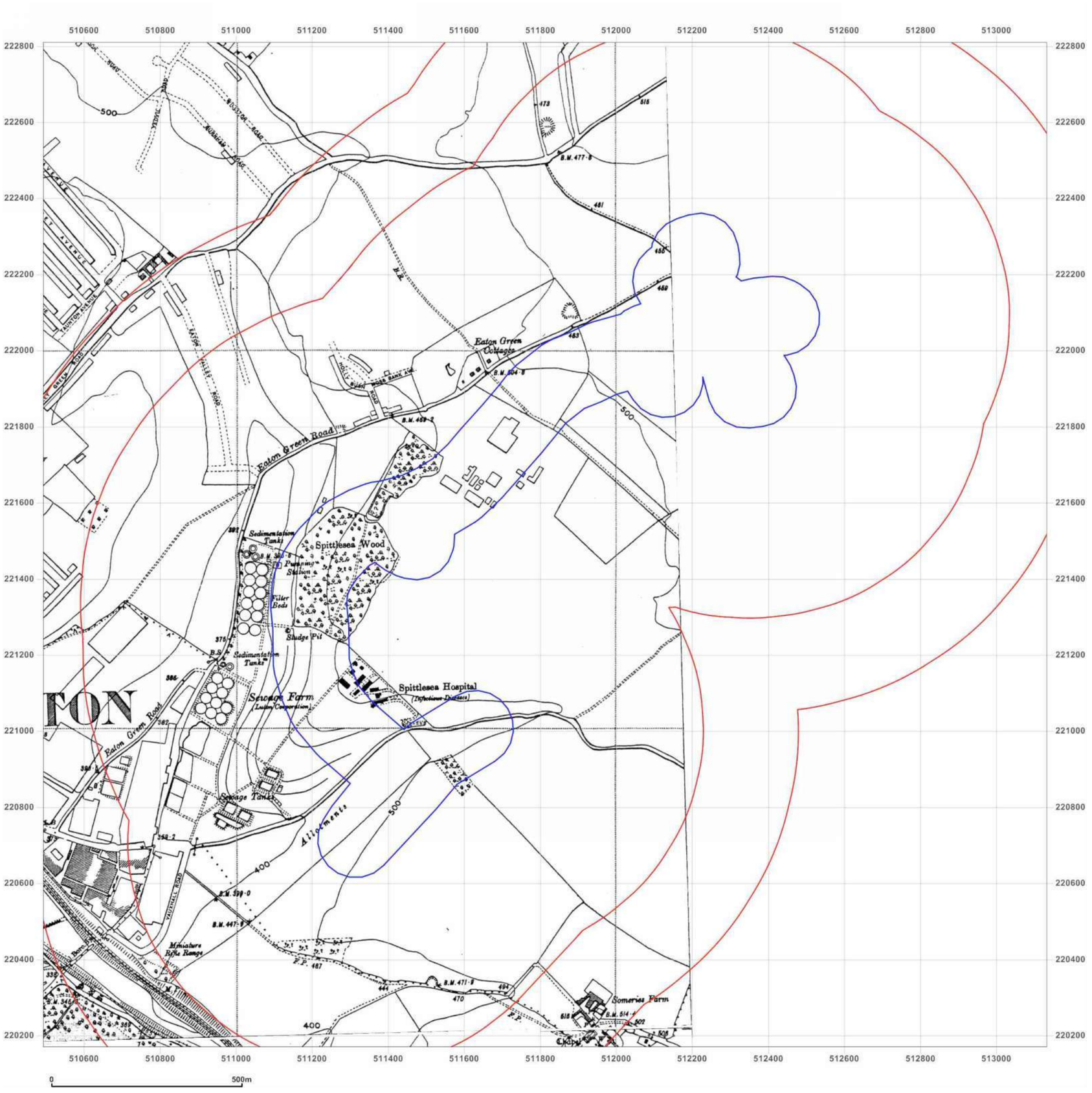

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

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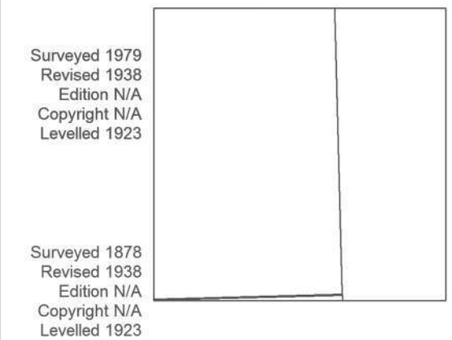

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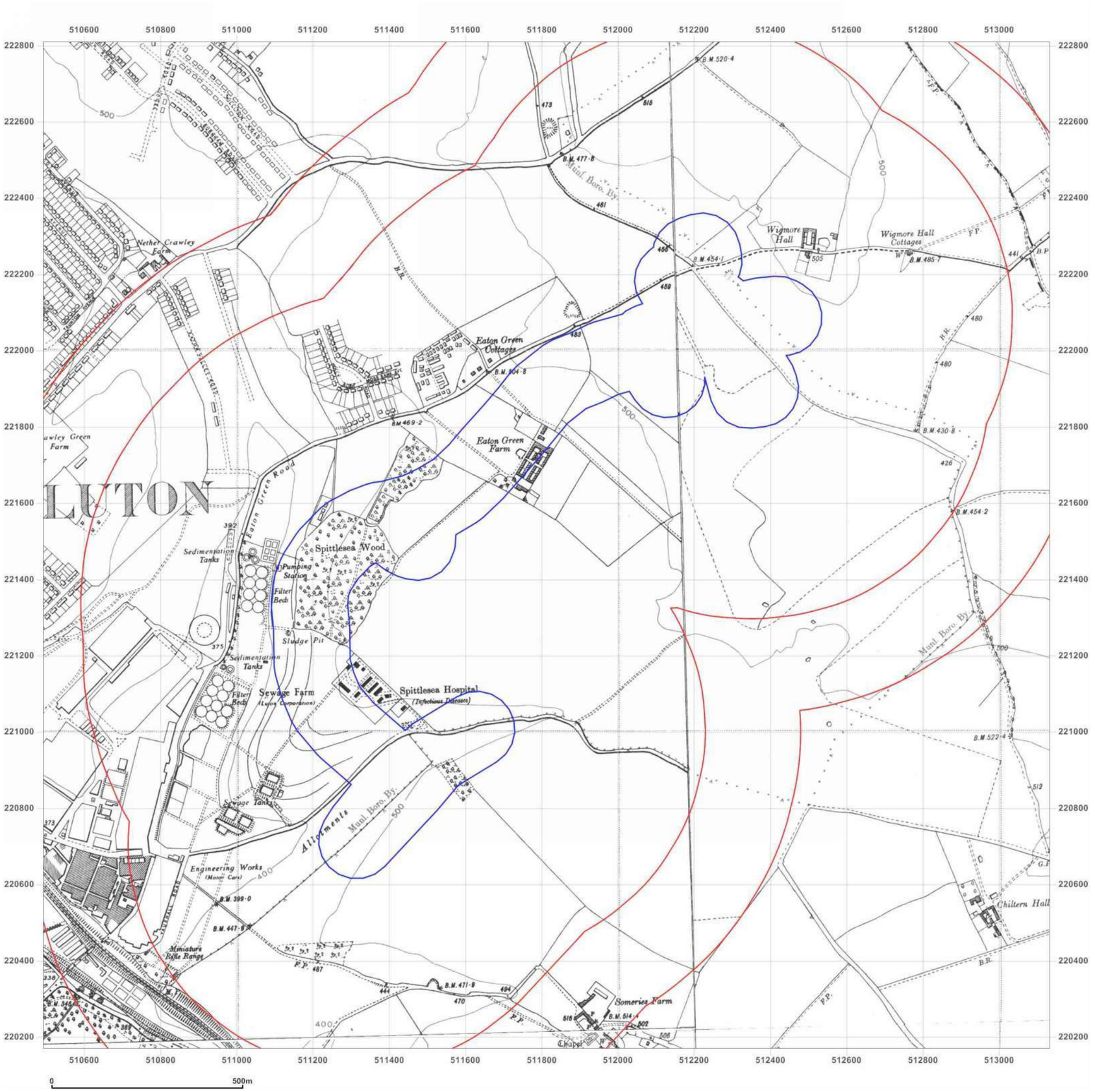

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

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W E
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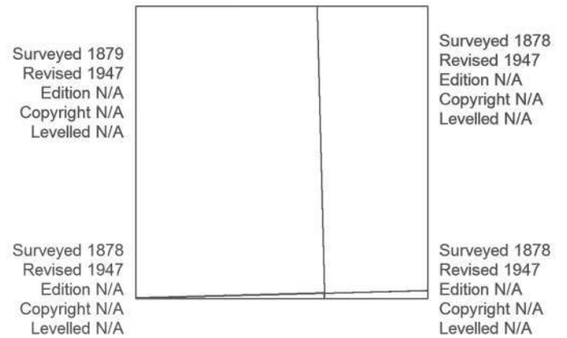

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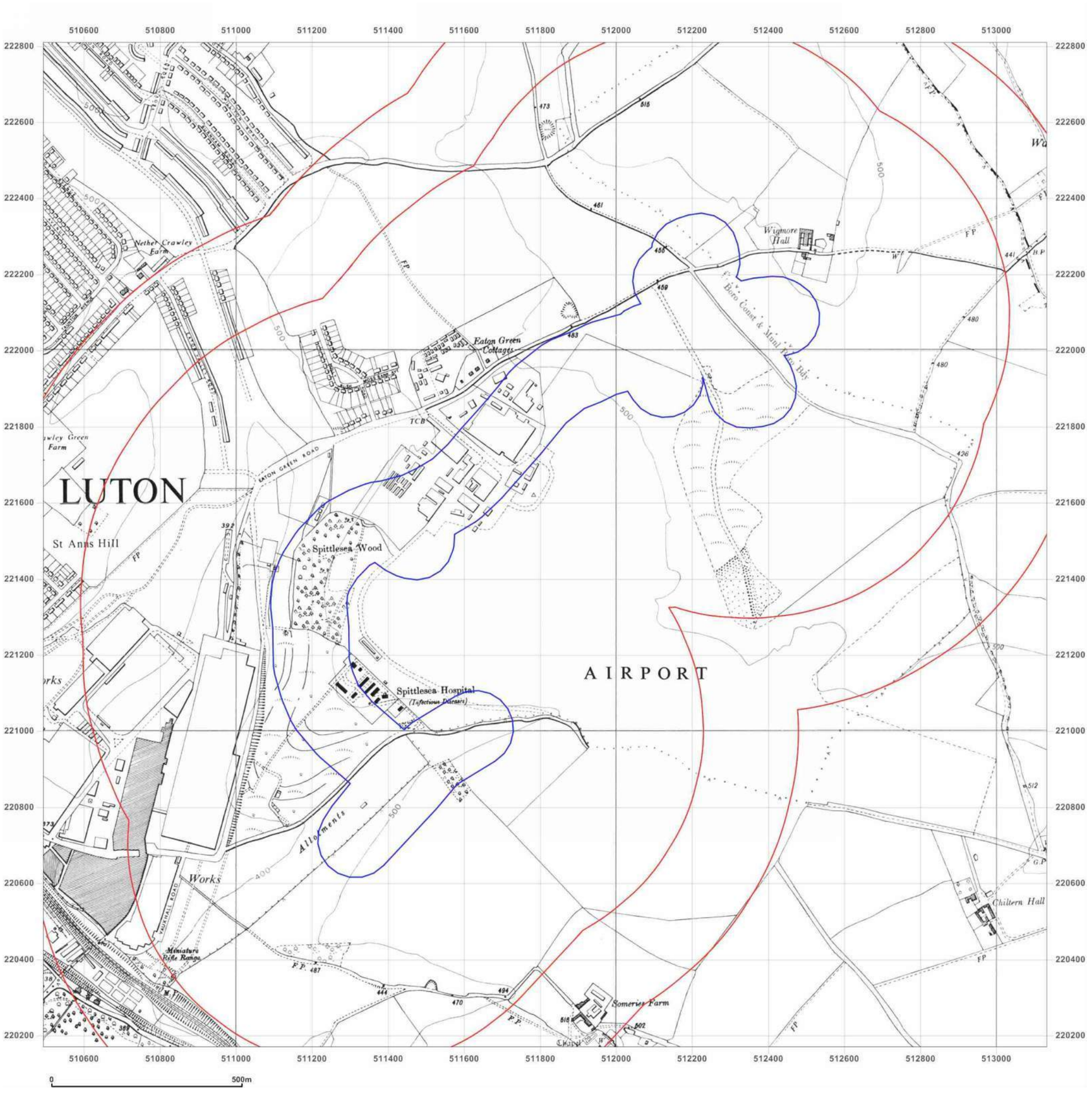

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: Provisional
Map date: **1960**
Scale: 1:10,560
Printed at: 1:10,560

N
W E
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Surveyed N/A
Revised 1959
Edition N/A
Copyright 1960
Levelled N/A

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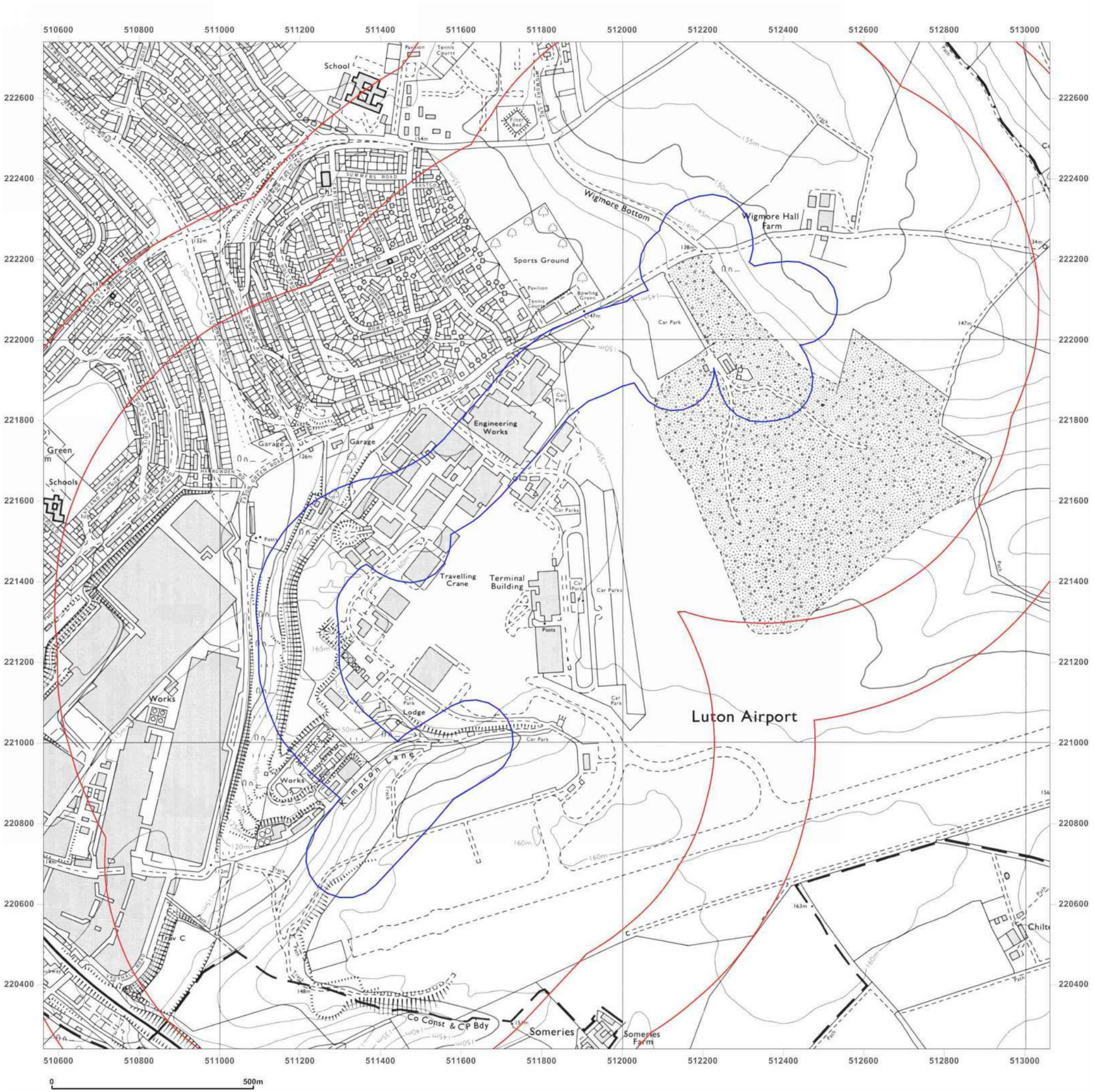

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: National Grid

Map date: **1975**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1973
Revised 1975
~~Edition N/A~~
Copyright 1975
Levelled 1973

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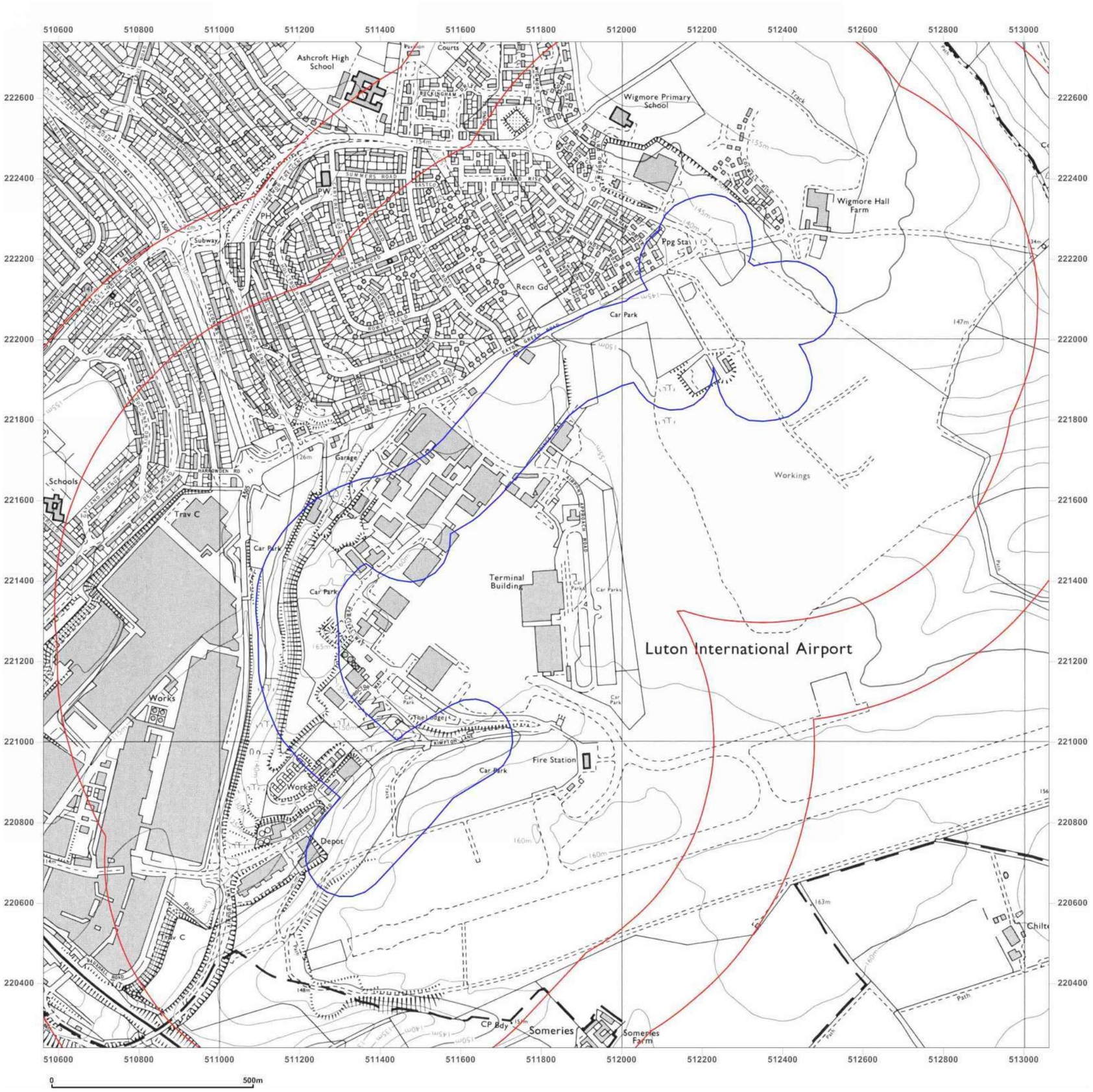

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: National Grid

Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: National Grid

Map date: **1991**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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2001

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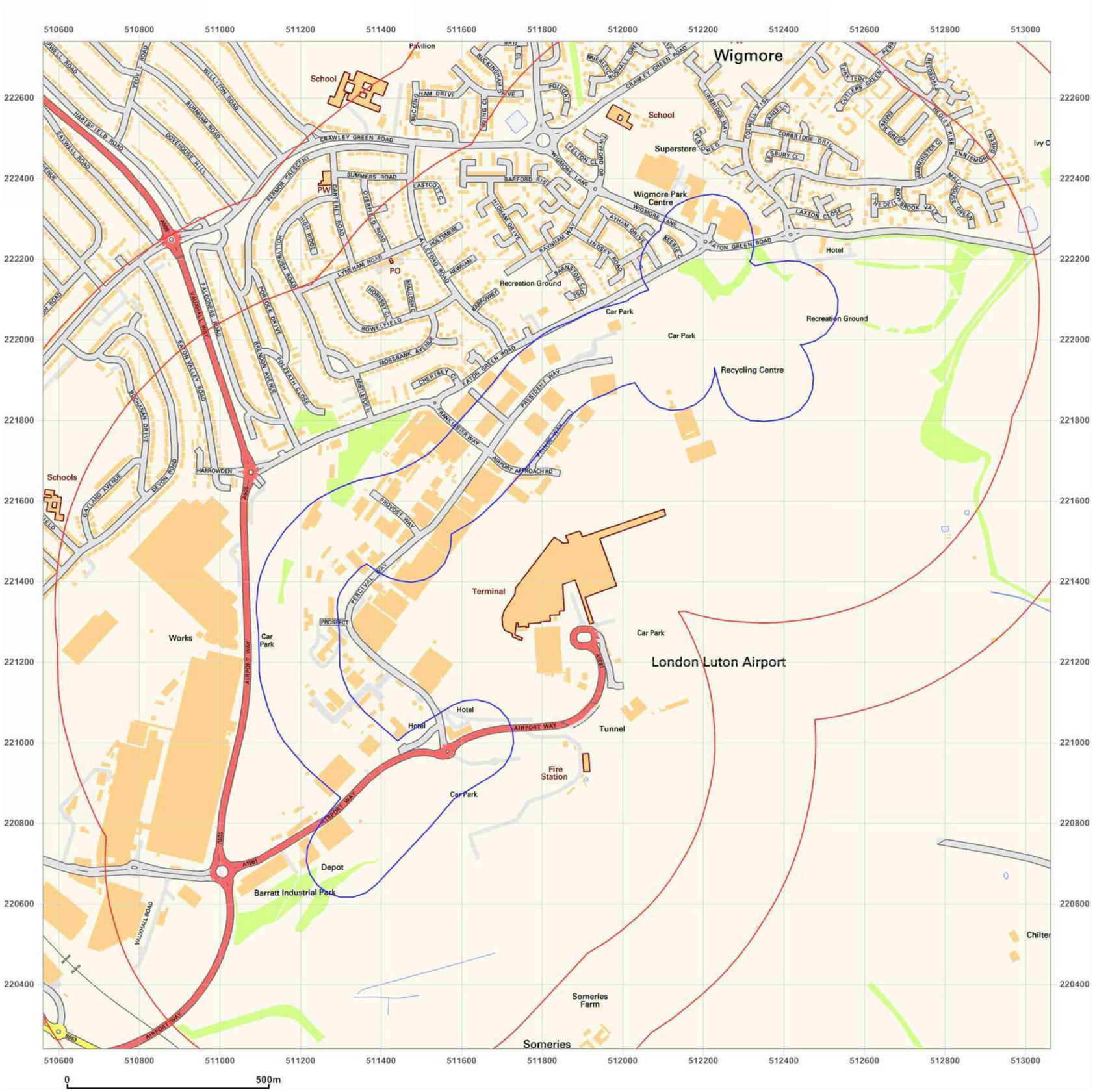

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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2010

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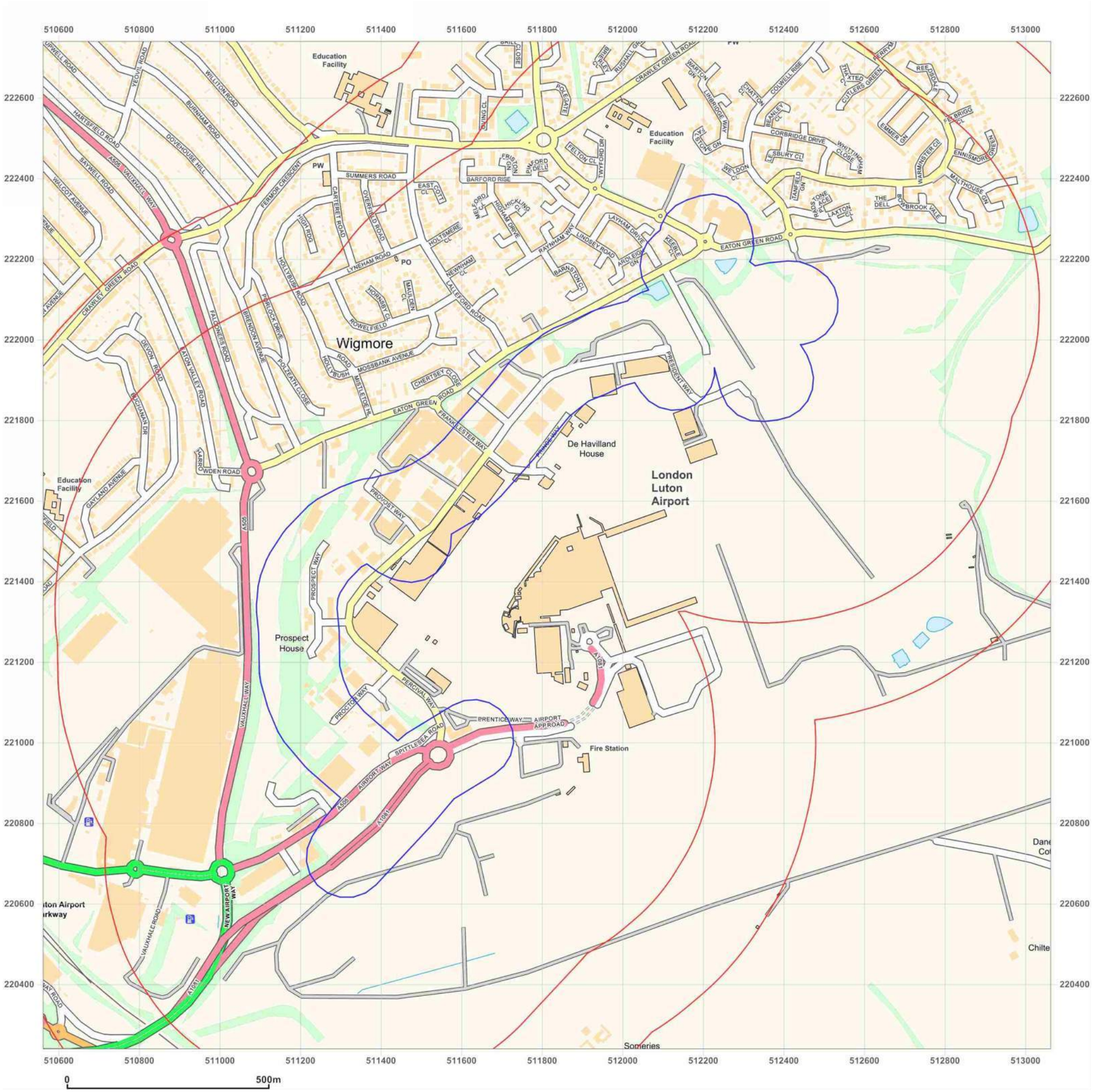

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214
Grid Ref: 511812, 221489

Map Name: National Grid

Map date: **2020**

Scale: 1:10,000

Printed at: 1:10,000

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2020

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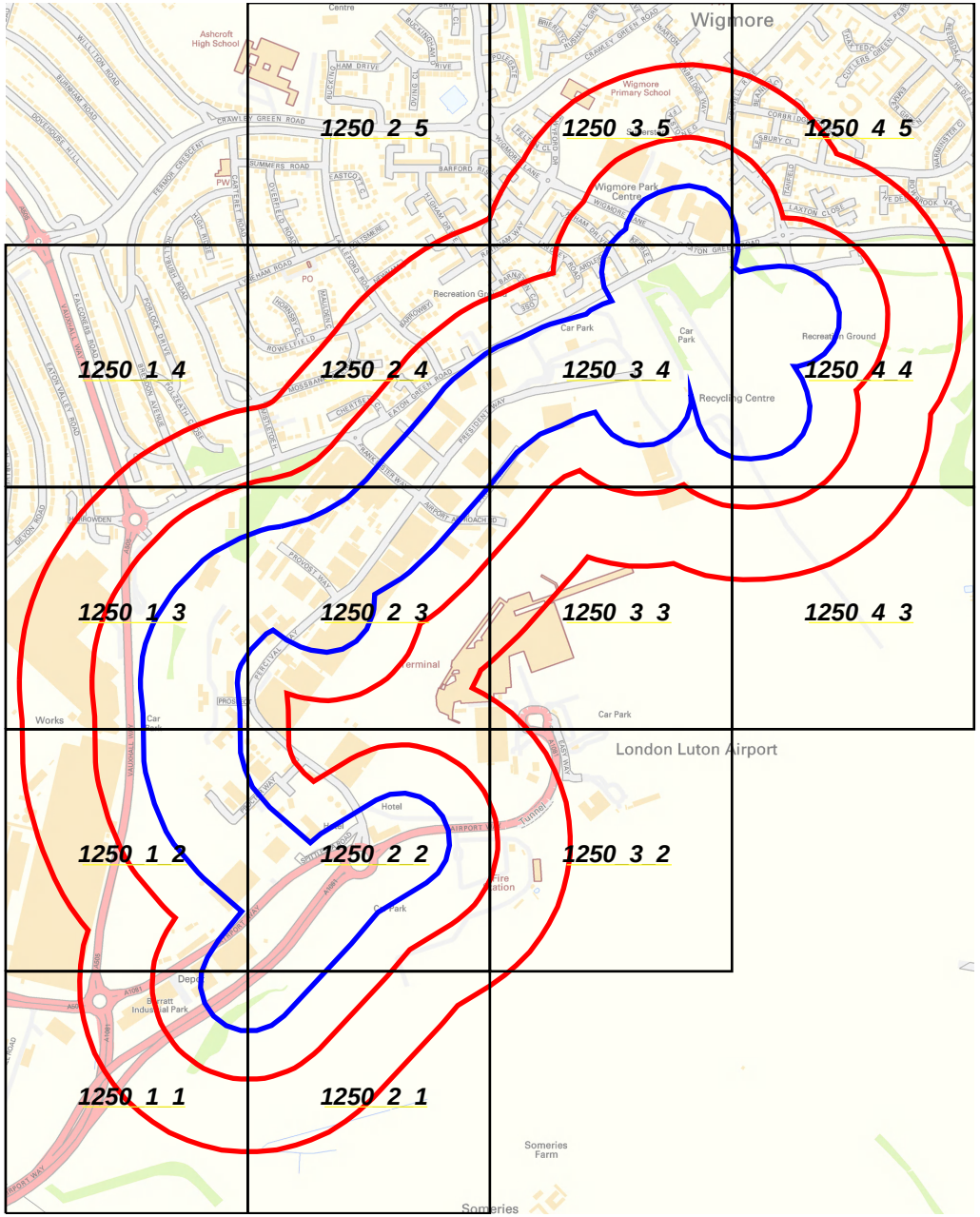

Groundsure INSIGHTS

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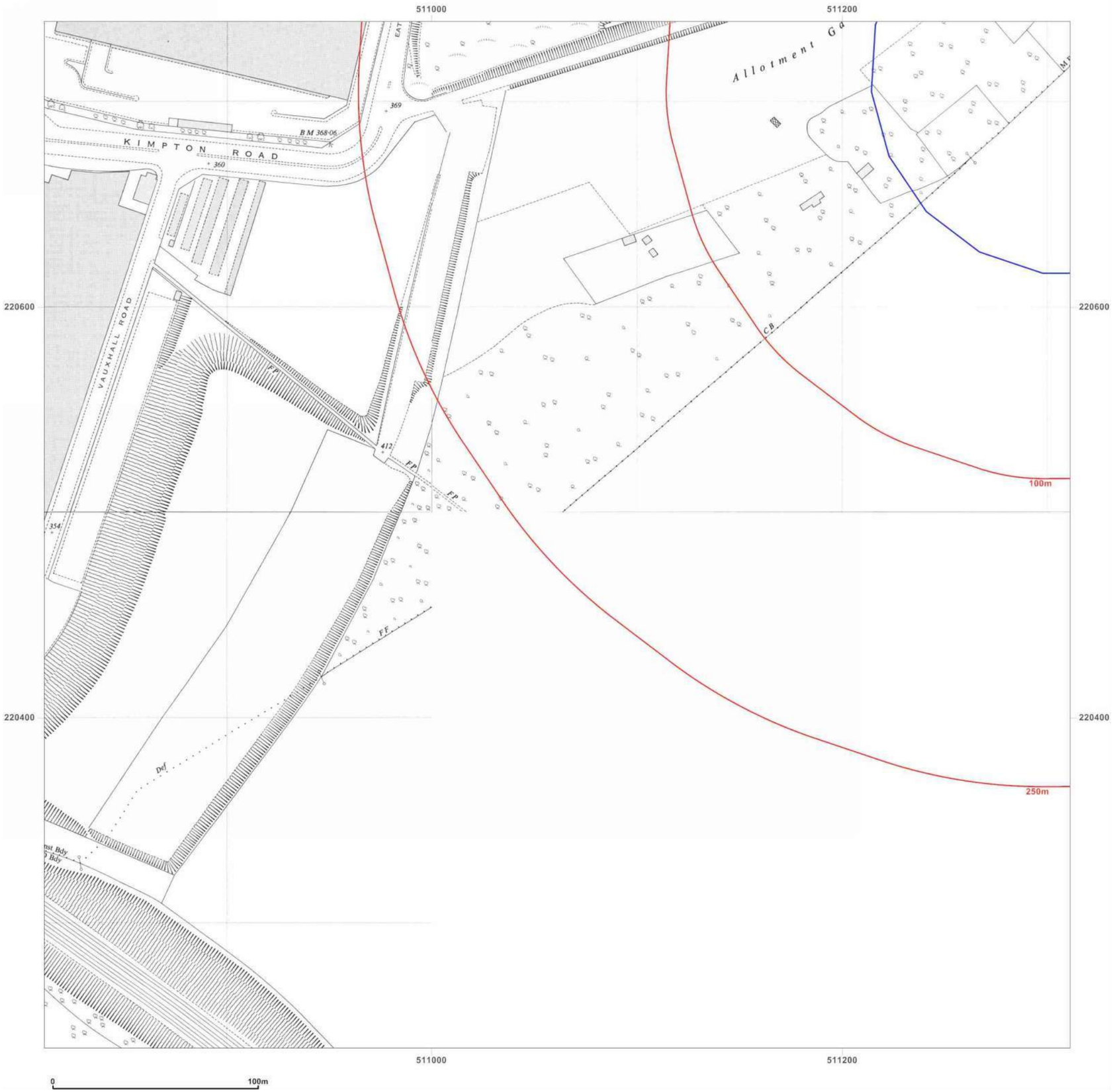
1:1250 Scale Grid Index



Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_1
Grid Ref: 511061, 220489

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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

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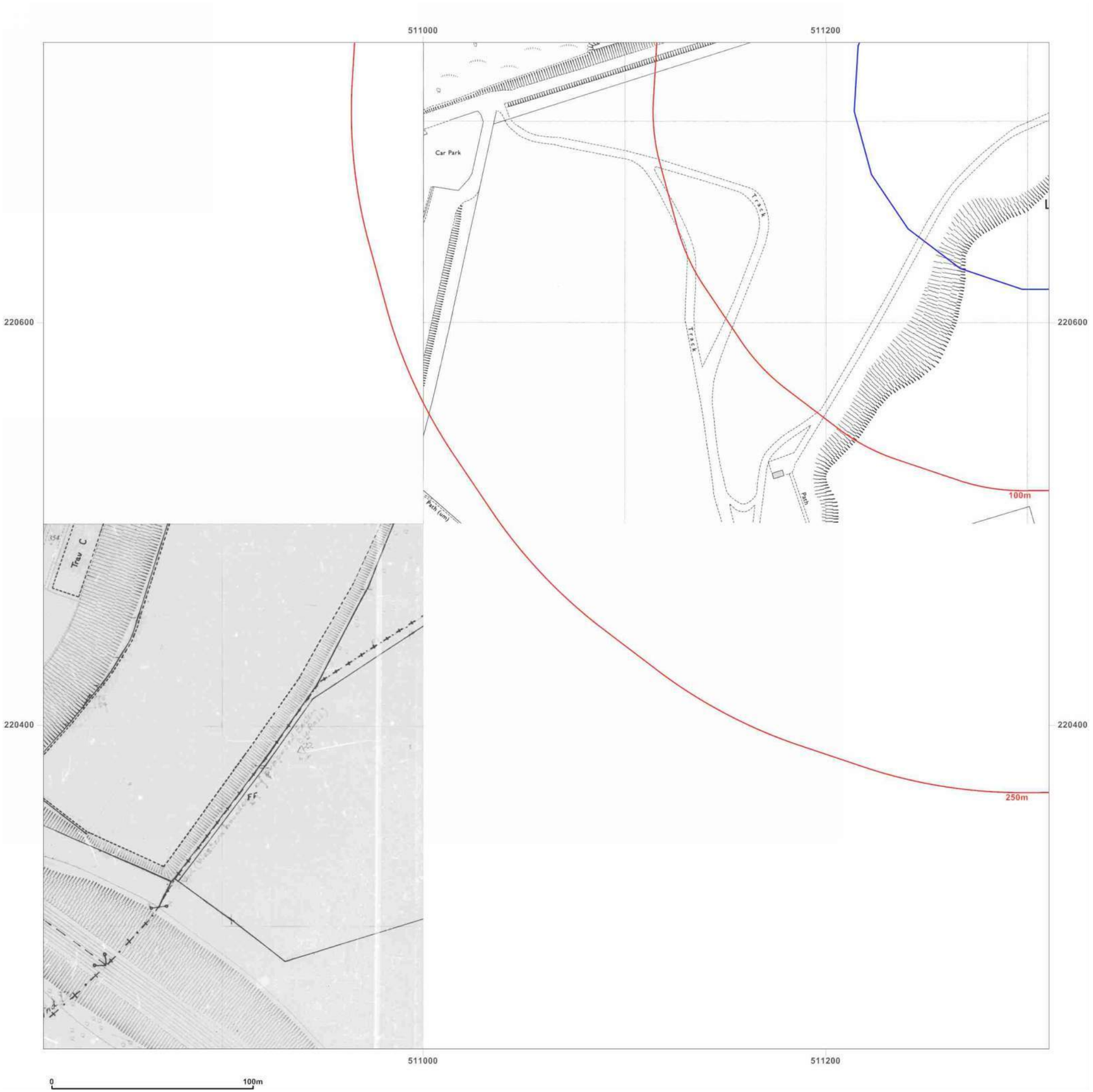

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_1
Grid Ref: 511061, 220489

Map Name: National Grid

Map date: **1973-1974**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1973
Edition N/A
Copyright 1974
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

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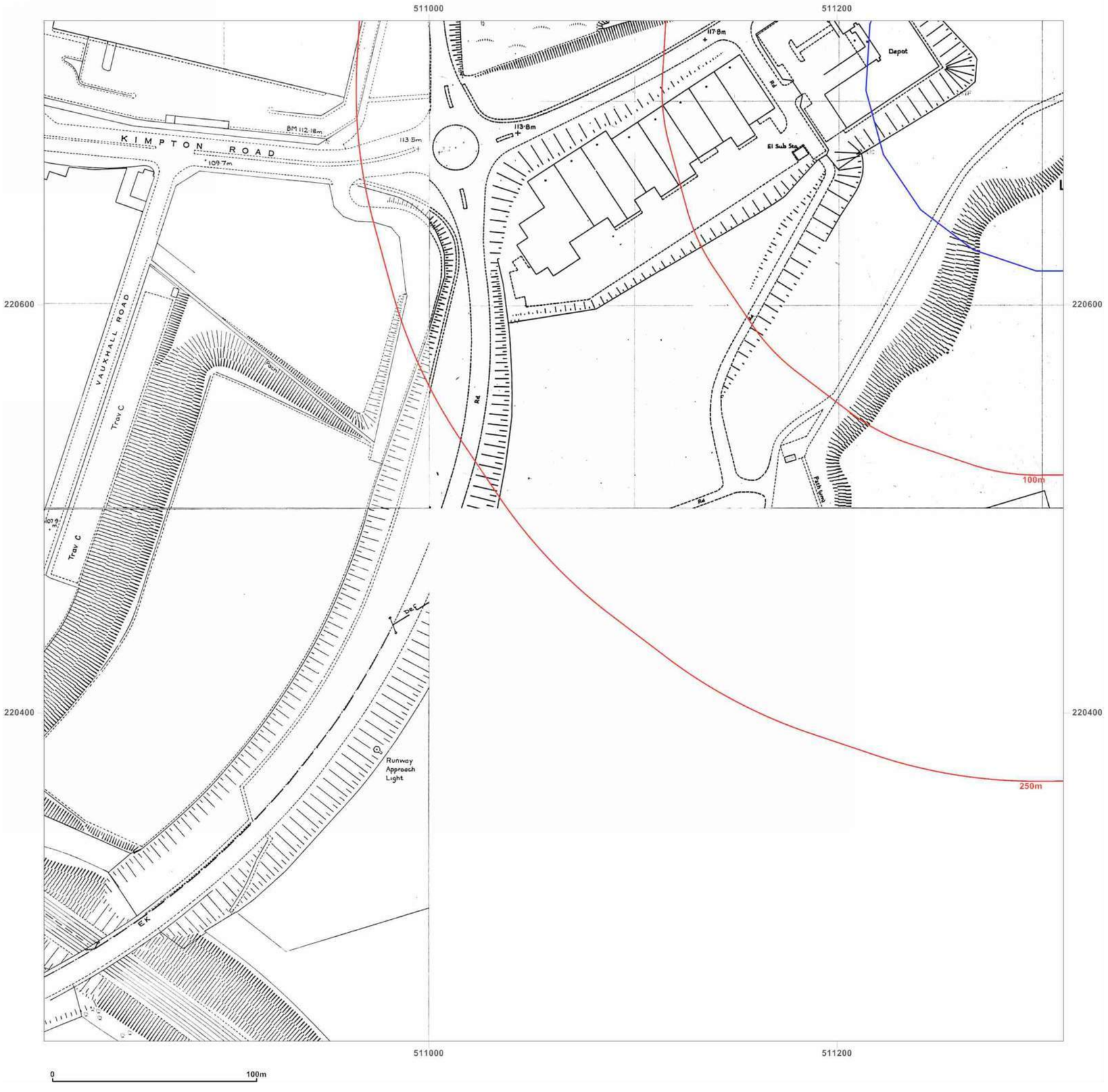

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_1
Grid Ref: 511061, 220489

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982

Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982

Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982

Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982

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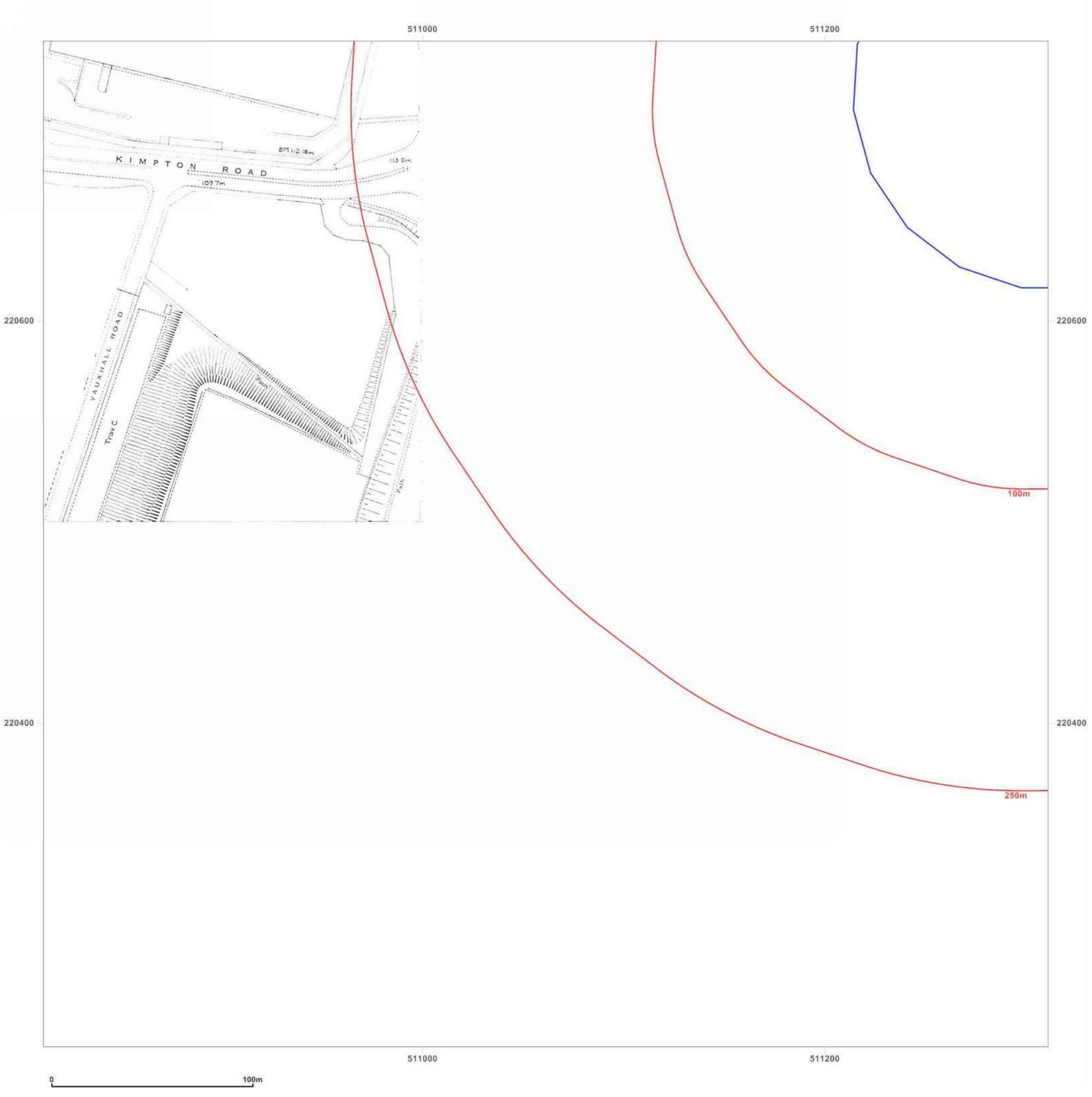

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_1
Grid Ref: 511061, 220489

Map Name: National Grid

Map date: **1986**

Scale: 1:1,250

Printed at: 1:2,000

N
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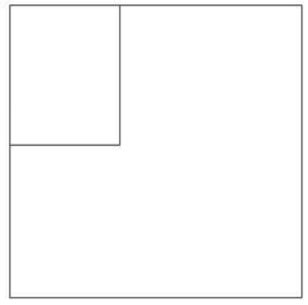
Surveyed 1982
Revised 1986
Edition N/A
Copyright 1986
Levelled 1982



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Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_1
Grid Ref: 511061, 220489

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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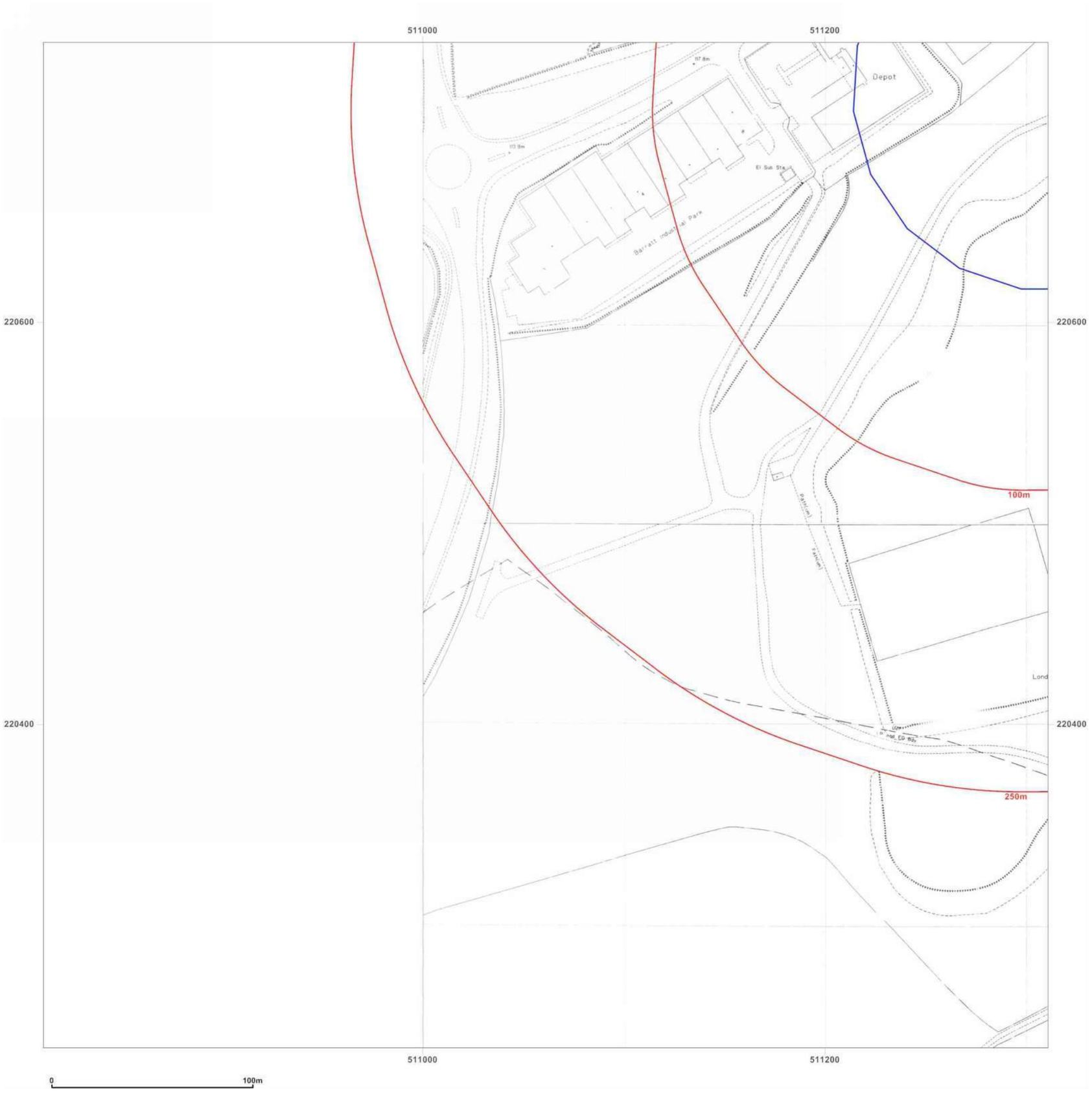

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_1
Grid Ref: 511061, 220489

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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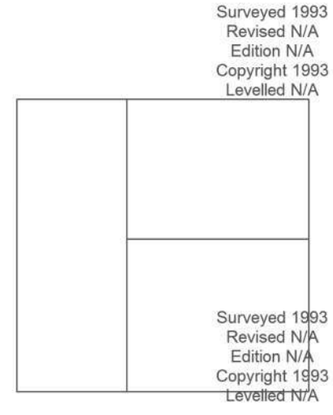

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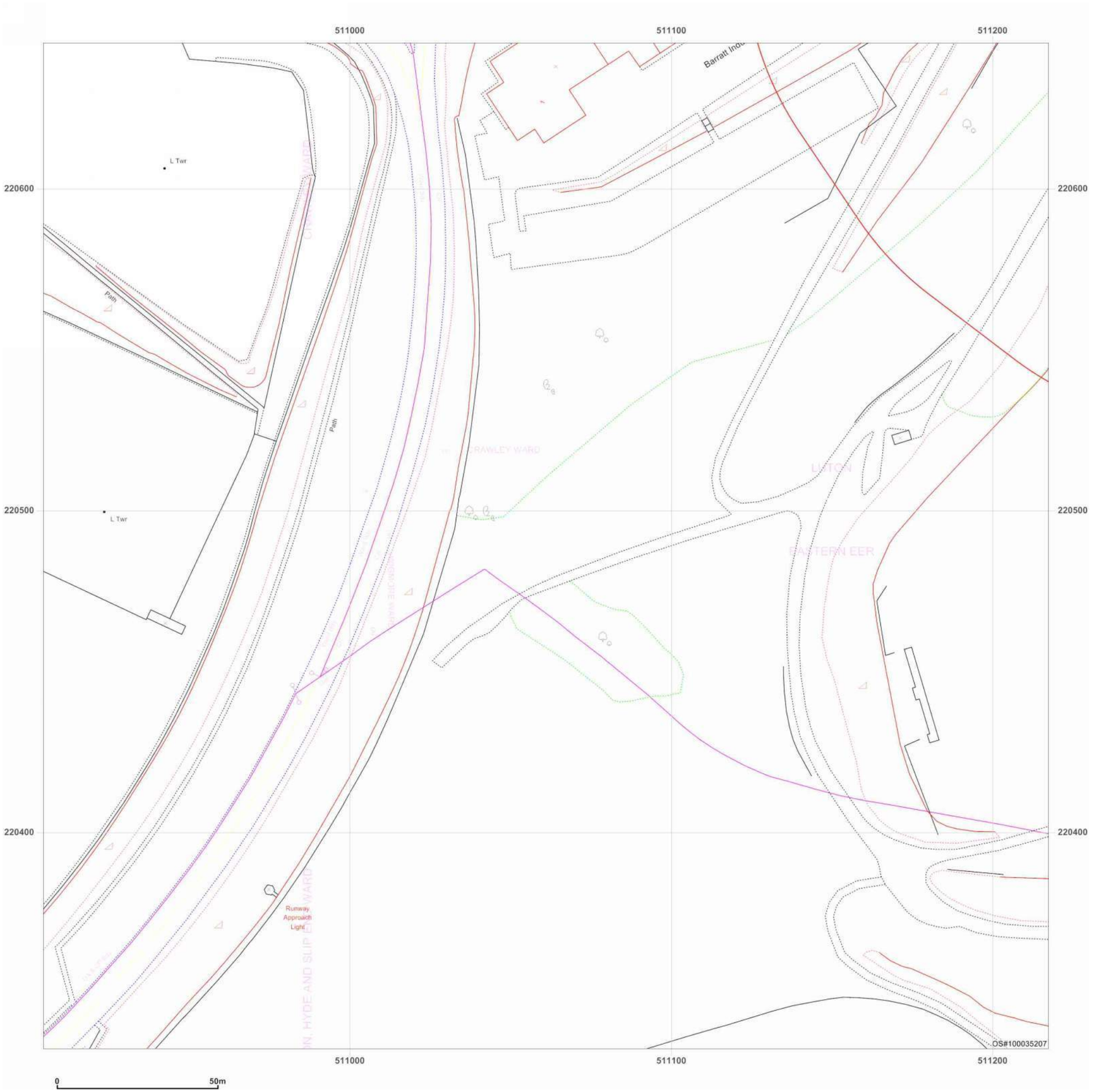

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_1
Grid Ref: 511061, 220489

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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2003

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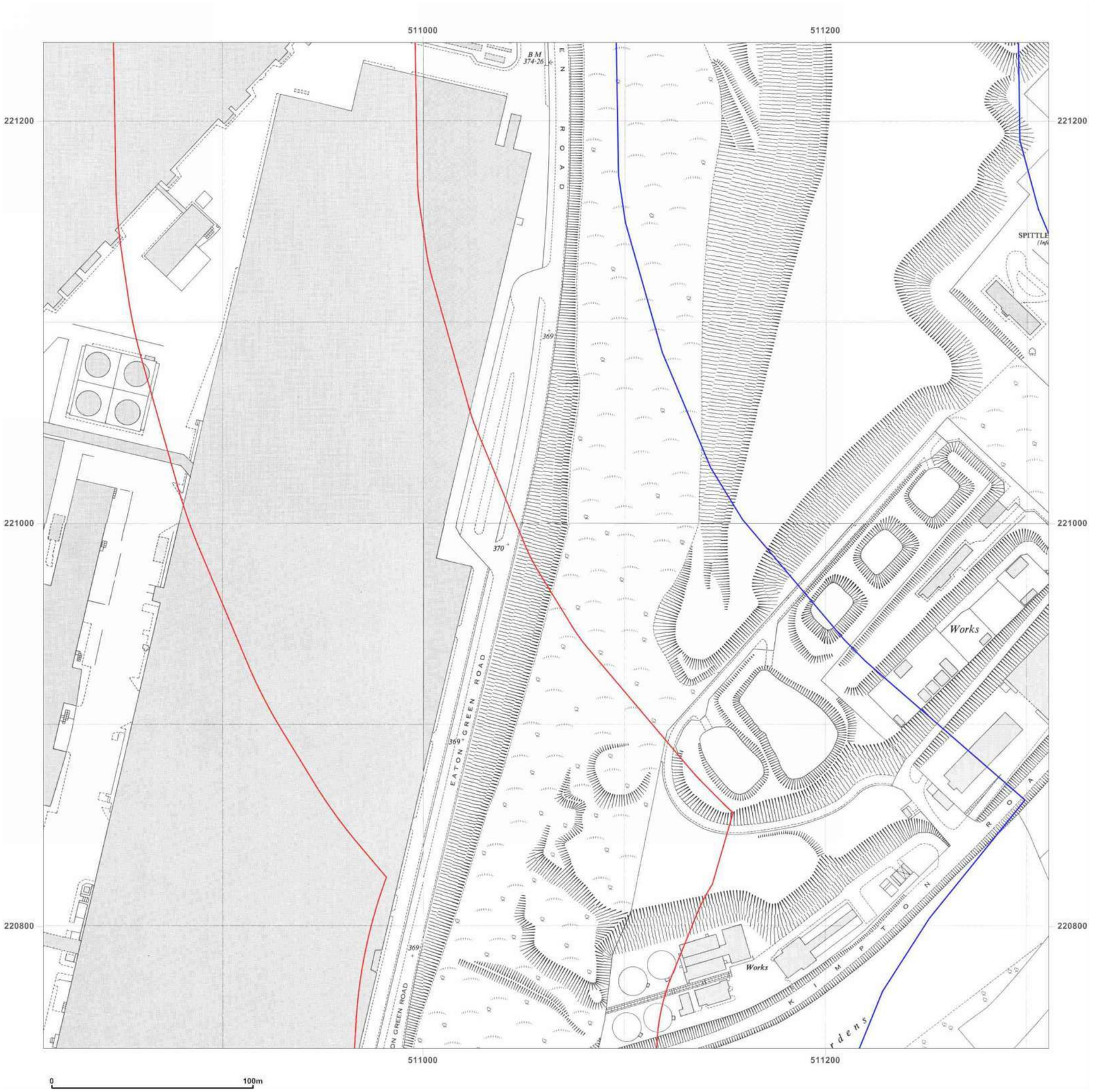

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_2
Grid Ref: 511061, 220989

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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Production date: 23 November 2020

Map legend available at:
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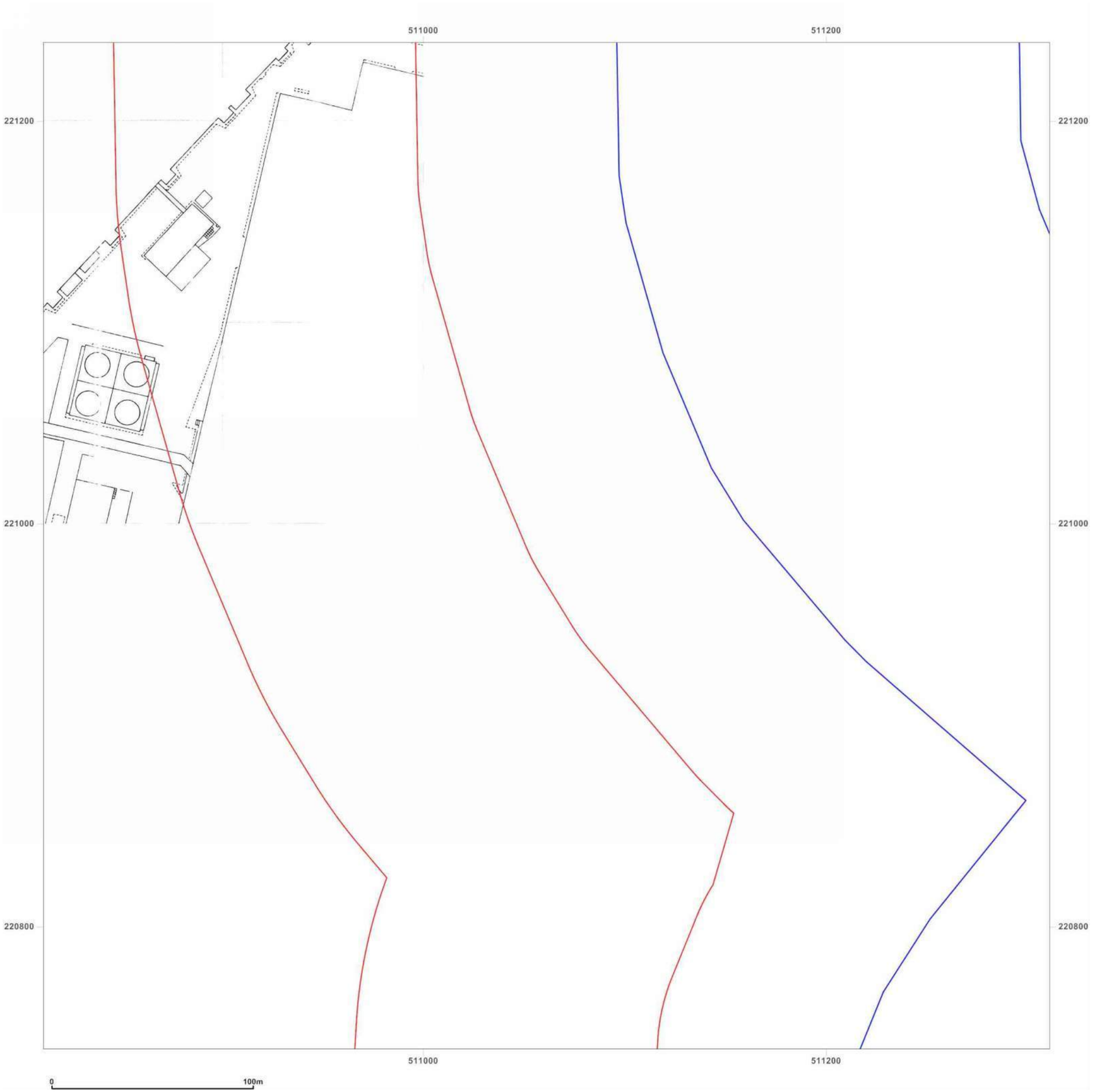


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_2
Grid Ref: 511061, 220989

Map Name: National Grid

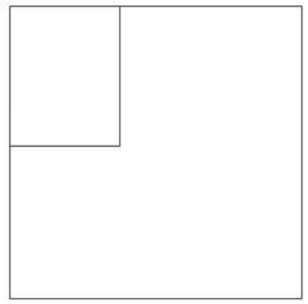
Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

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



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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_2
Grid Ref: 511061, 220989

Map Name: National Grid
Map date: **1973-1974**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

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

Surveyed 1961
Revised 1973
Edition N/A
Copyright 1974
Levelled 1958

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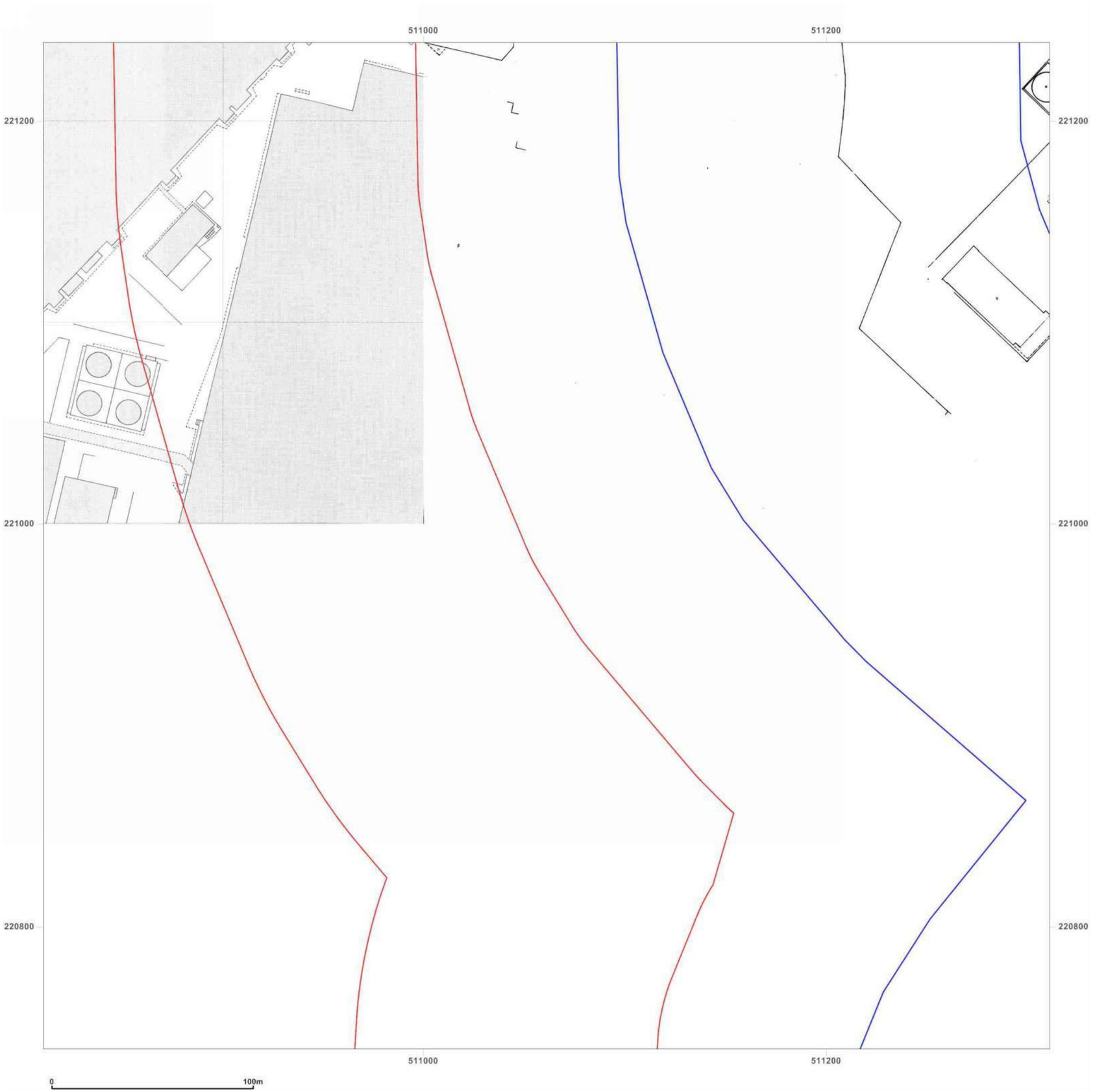


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

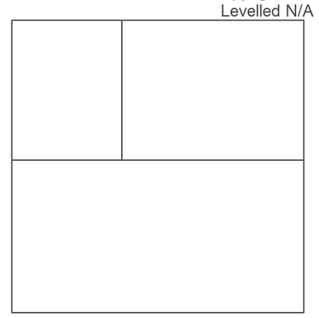
Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_2
Grid Ref: 511061, 220989

Map Name: National Grid
Map date: **1975**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1974
Edition N/A
Copyright 1975
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A



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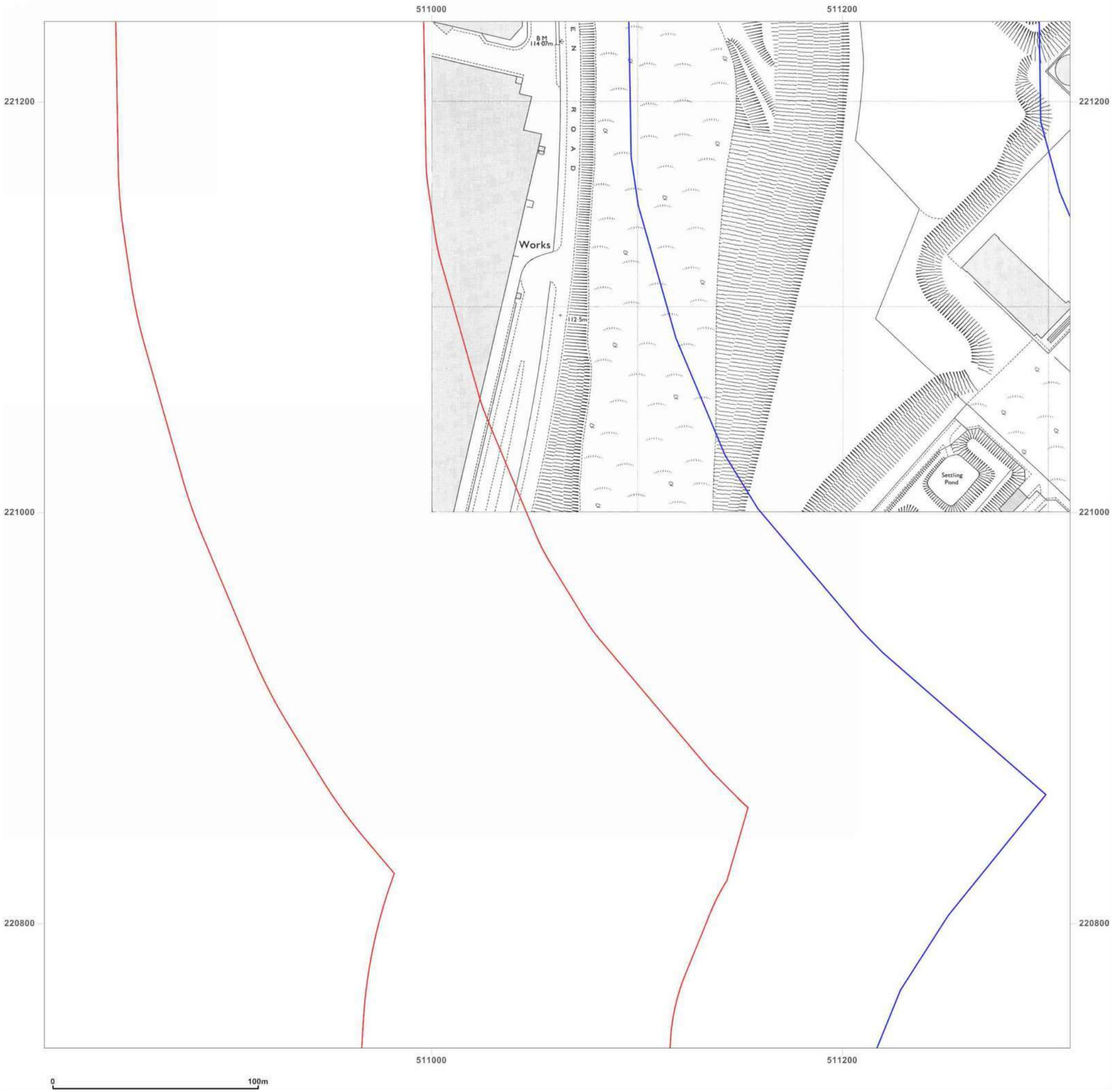


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_2
Grid Ref: 511061, 220989

Map Name: National Grid

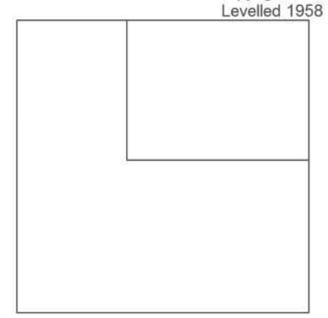
Map date: **1976**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1975
Edition N/A
Copyright 1976
Levelled 1958



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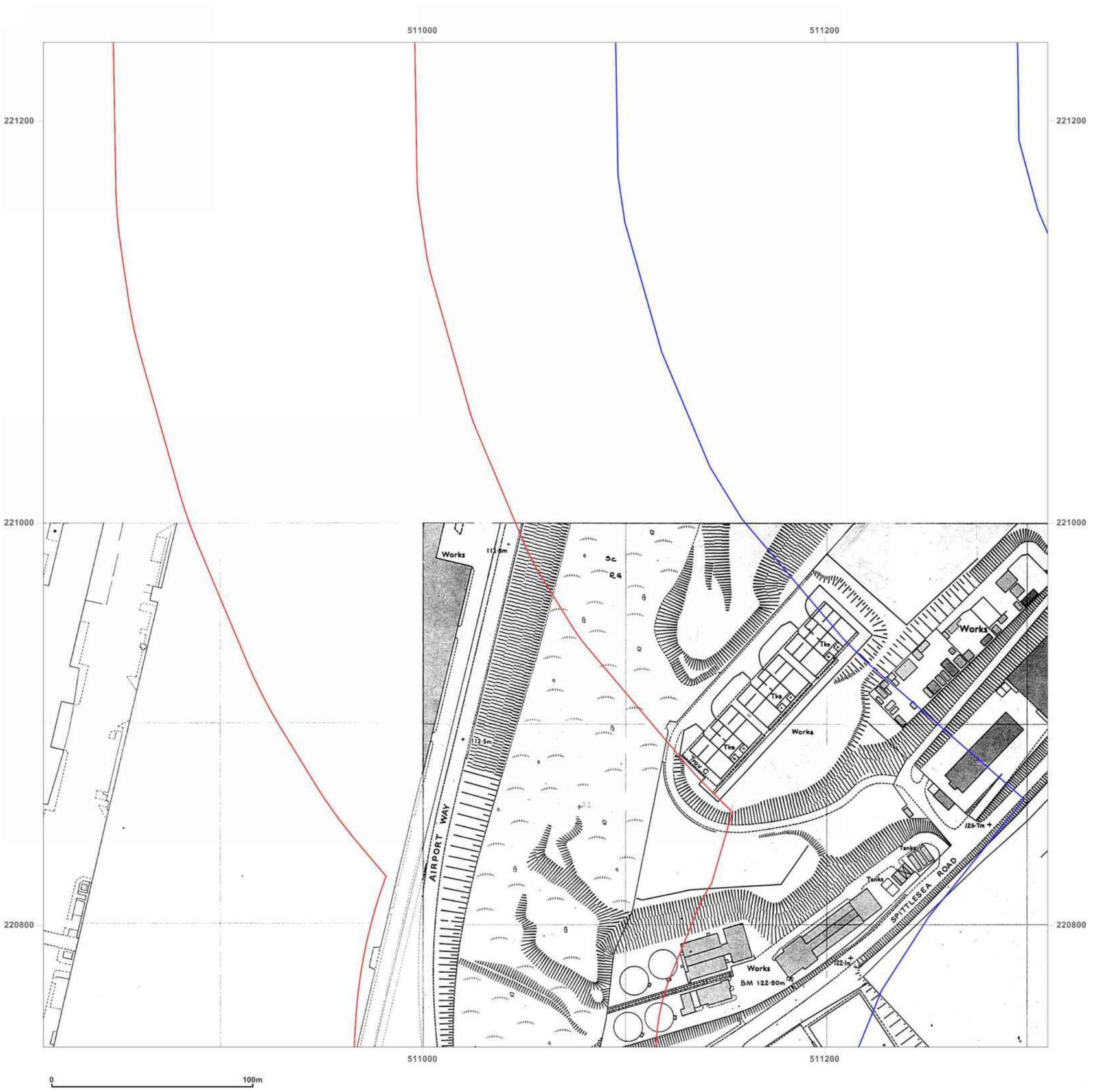


Groundsure INSIGHTS

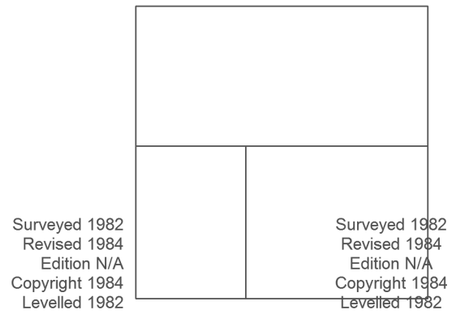
Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_2
Grid Ref: 511061, 220989

Map Name: National Grid
Map date: **1984**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S



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Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_2
Grid Ref: 511061, 220989

Map Name: National Grid

Map date: **1986-1991**

Scale: 1:1,250

Printed at: 1:2,000

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_2
Grid Ref: 511061, 220989

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_2
Grid Ref: 511061, 220989

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_2
Grid Ref: 511061, 220989

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
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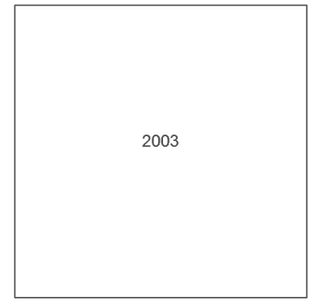

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Production date: 23 November 2020

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Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_3
Grid Ref: 511061, 221489

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:1,250

Printed at: 1:2,000

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Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_3
Grid Ref: 511061, 221489

Map Name: National Grid

Map date: **1962-1966**

Scale: 1:1,250

Printed at: 1:2,000

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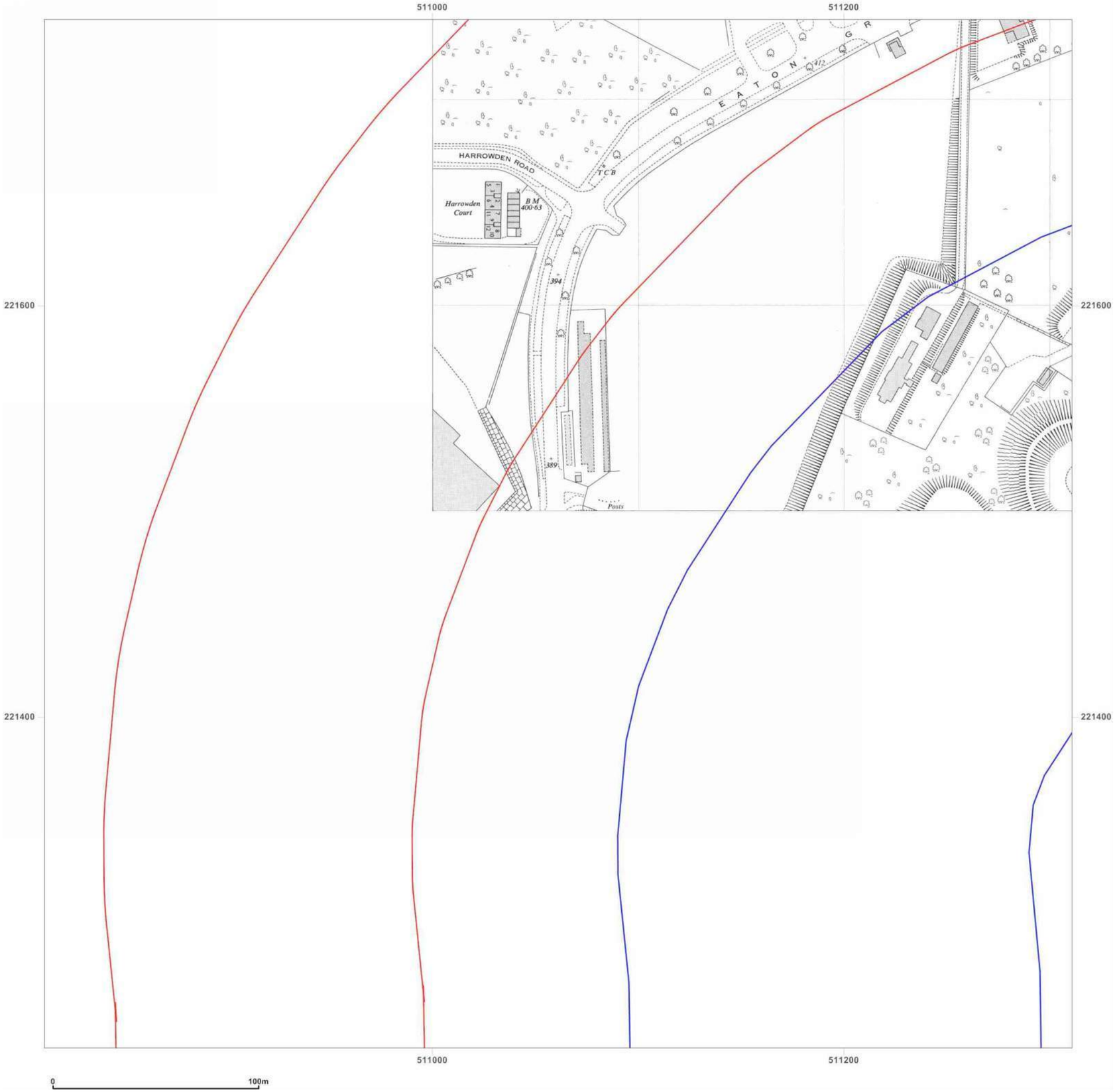

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_3
Grid Ref: 511061, 221489

Map Name: National Grid

Map date: **1967**

Scale: 1:1,250

Printed at: 1:2,000

N
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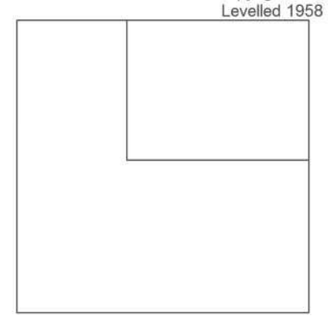
Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1958



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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_3
Grid Ref: 511061, 221489

Map Name: National Grid

Map date: **1973-1974**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1973
Edition N/A
Copyright 1974
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

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

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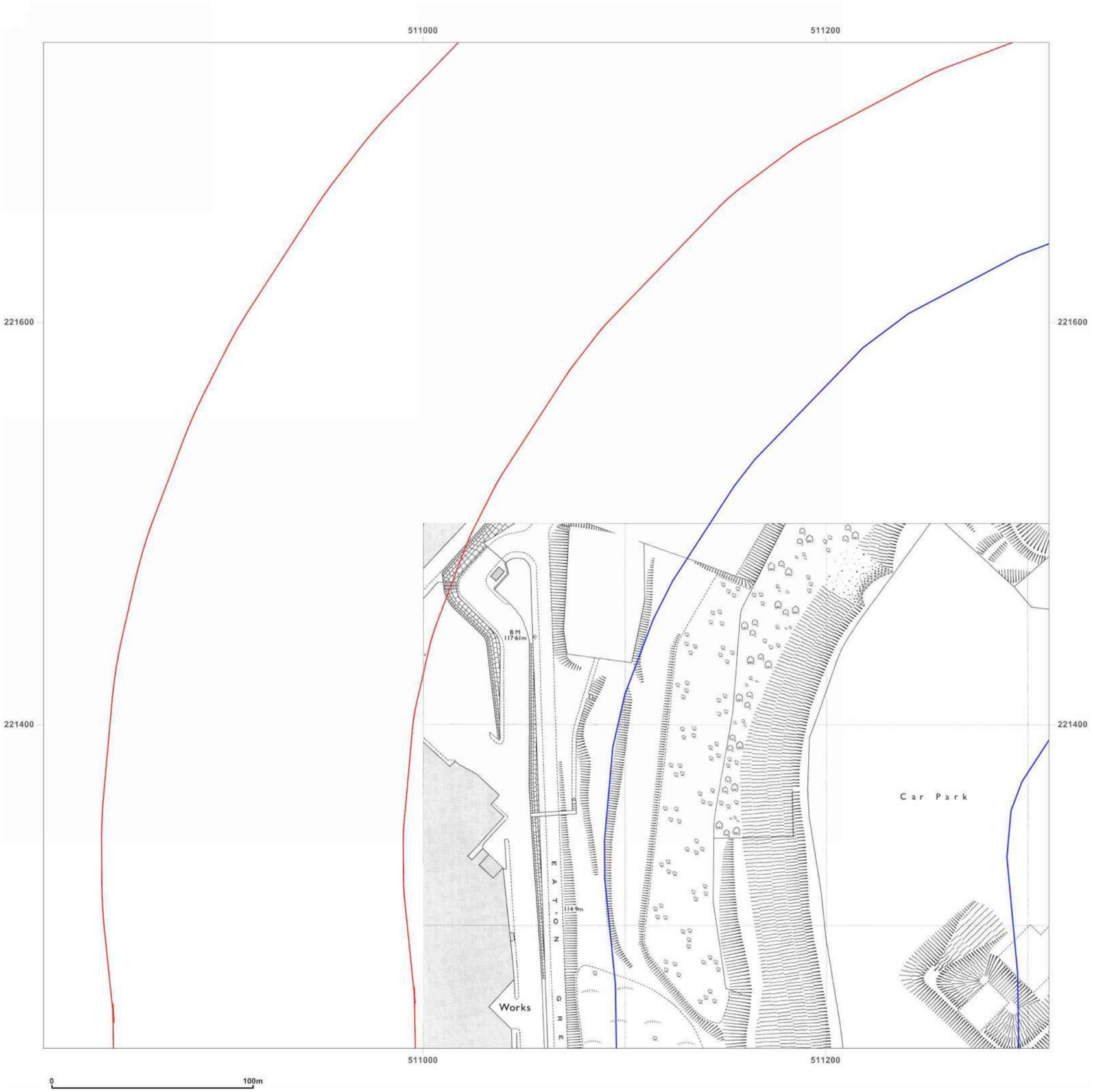


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_3
Grid Ref: 511061, 221489

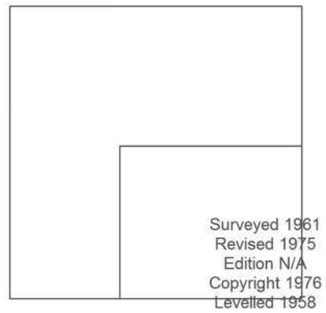
Map Name: National Grid

Map date: **1976**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S



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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_3
Grid Ref: 511061, 221489

Map Name: National Grid

Map date: **1975-1979**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1958
Revised 1979
Edition N/A
Copyright 1979
Levelled 1958

Surveyed 1961
Revised 1974
Edition N/A
Copyright 1975
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A

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Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_3
Grid Ref: 511061, 221489

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1990
Revised N/A
Edition N/A
Copyright 1990
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1991
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_3
Grid Ref: 511061, 221489

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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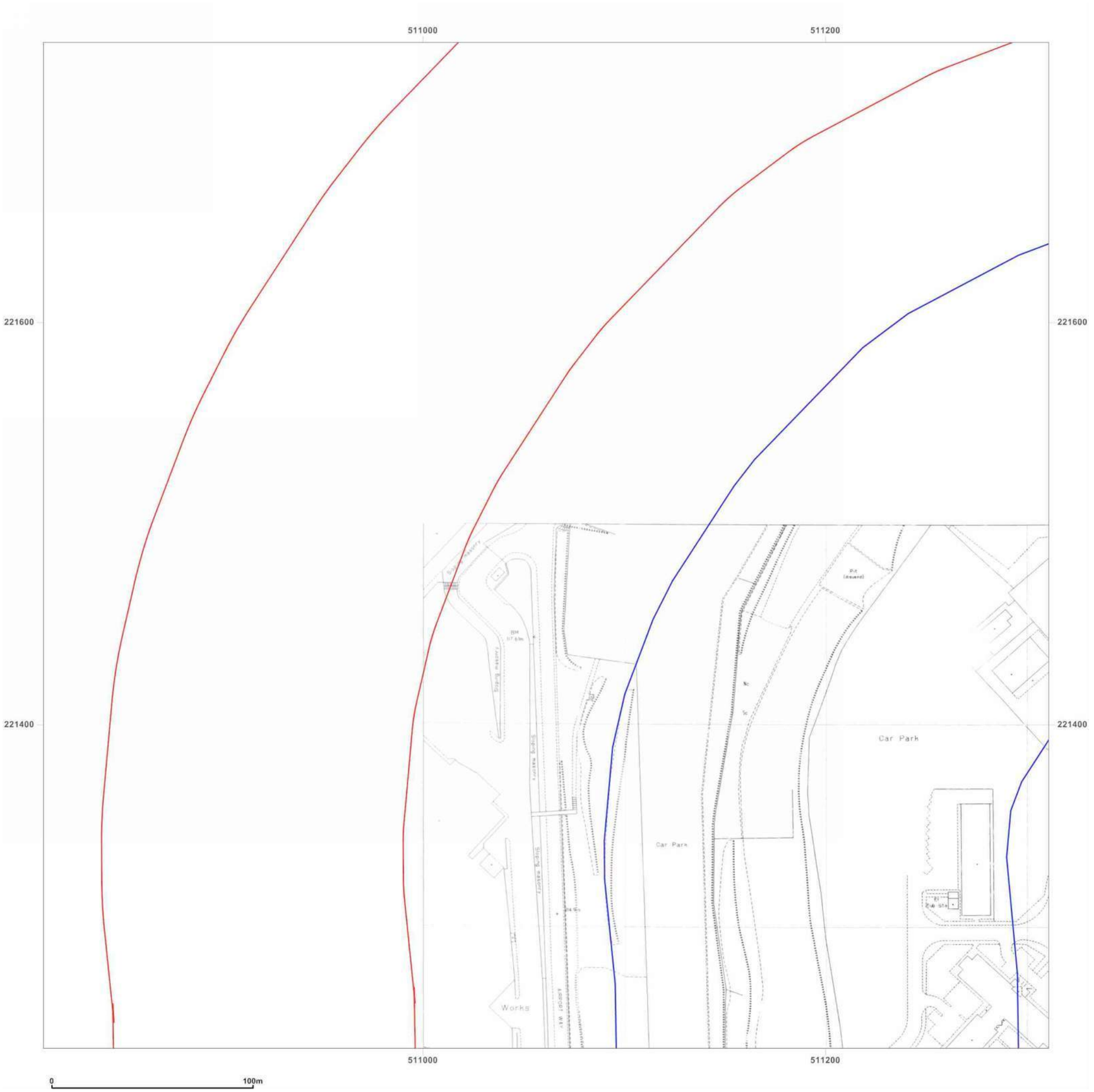

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_3
Grid Ref: 511061, 221489

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
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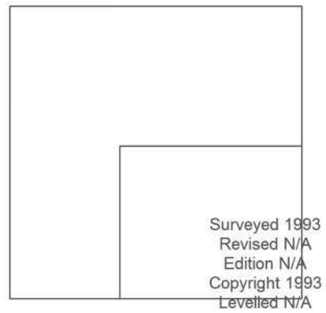

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Production date: 23 November 2020

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_3
Grid Ref: 511061, 221489

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
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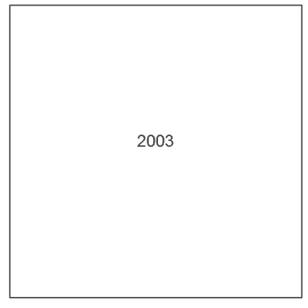

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_4
Grid Ref: 511061, 221989

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised N/A
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_4
Grid Ref: 511061, 221989

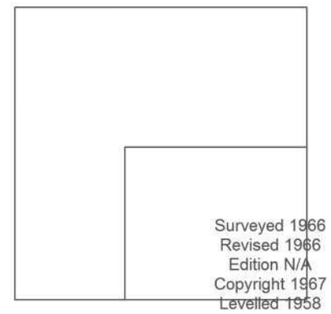
Map Name: National Grid

Map date: **1967**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S



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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_4
Grid Ref: 511061, 221989

Map Name: National Grid

Map date: **1966-1968**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1967
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

Surveyed 1961
Revised 1966
Edition N/A
Copyright 1966
Levelled 1958

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

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_4
Grid Ref: 511061, 221989

Map Name: National Grid
Map date: **1973-1977**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1977
Levelled 1958

Surveyed 1961
Revised 1973
Edition N/A
Copyright 1974
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_4
Grid Ref: 511061, 221989

Map Name: National Grid

Map date: **1979**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
Levelled 1958

Surveyed 1958
Revised 1979
Edition N/A
Copyright 1979
Levelled 1958

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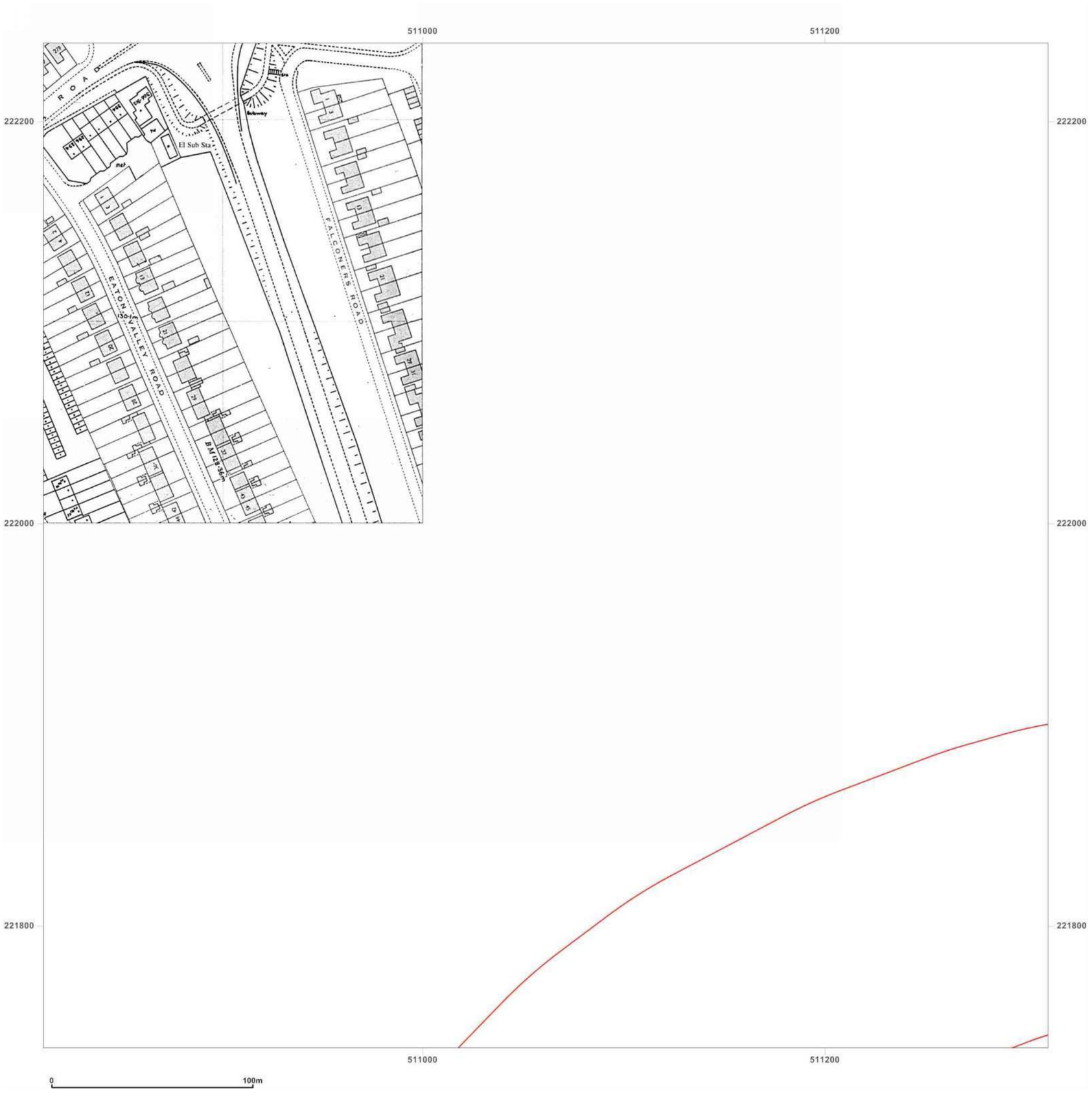


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_4
Grid Ref: 511061, 221989

Map Name: National Grid

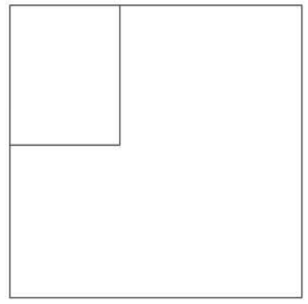
Map date: **1979**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
Levelled 1958



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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_4
Grid Ref: 511061, 221989

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1990
Revised 1990
Edition N/A
Copyright 1990
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_4
Grid Ref: 511061, 221989

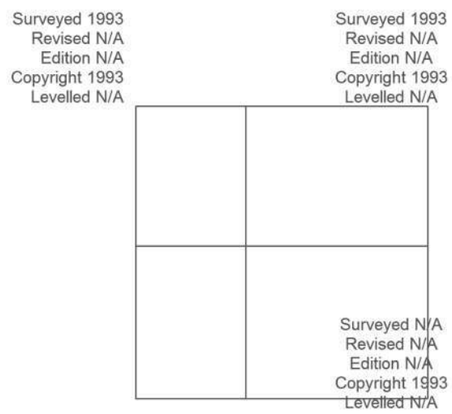
Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S



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Groundsure INSIGHTS

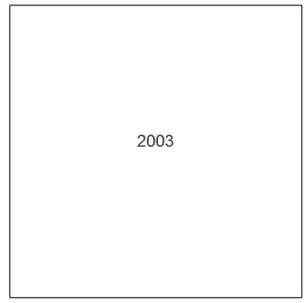
Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_1_4
Grid Ref: 511061, 221989

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S



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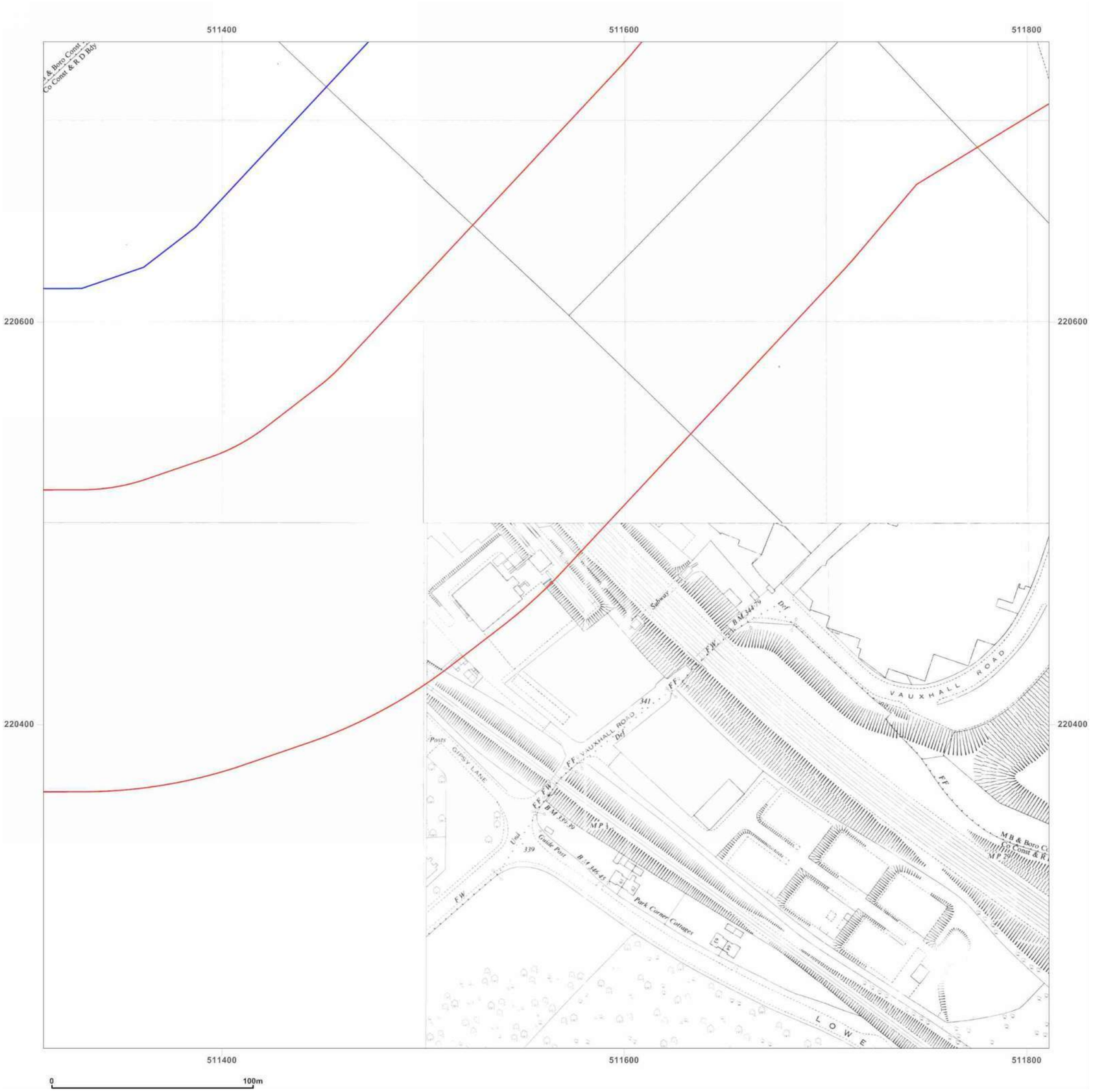

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_1
Grid Ref: 511561, 220489

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961	Surveyed 1962
Revised 1961	Revised 1962
Edition N/A	Edition N/A
Copyright 1962	Copyright 1963
Levelled 1958	Levelled 1958
Surveyed N/A	Surveyed N/A
Revised N/A	Revised N/A
Edition N/A	Edition N/A
Copyright N/A	Copyright N/A
Levelled N/A	Levelled N/A

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Production date: 23 November 2020

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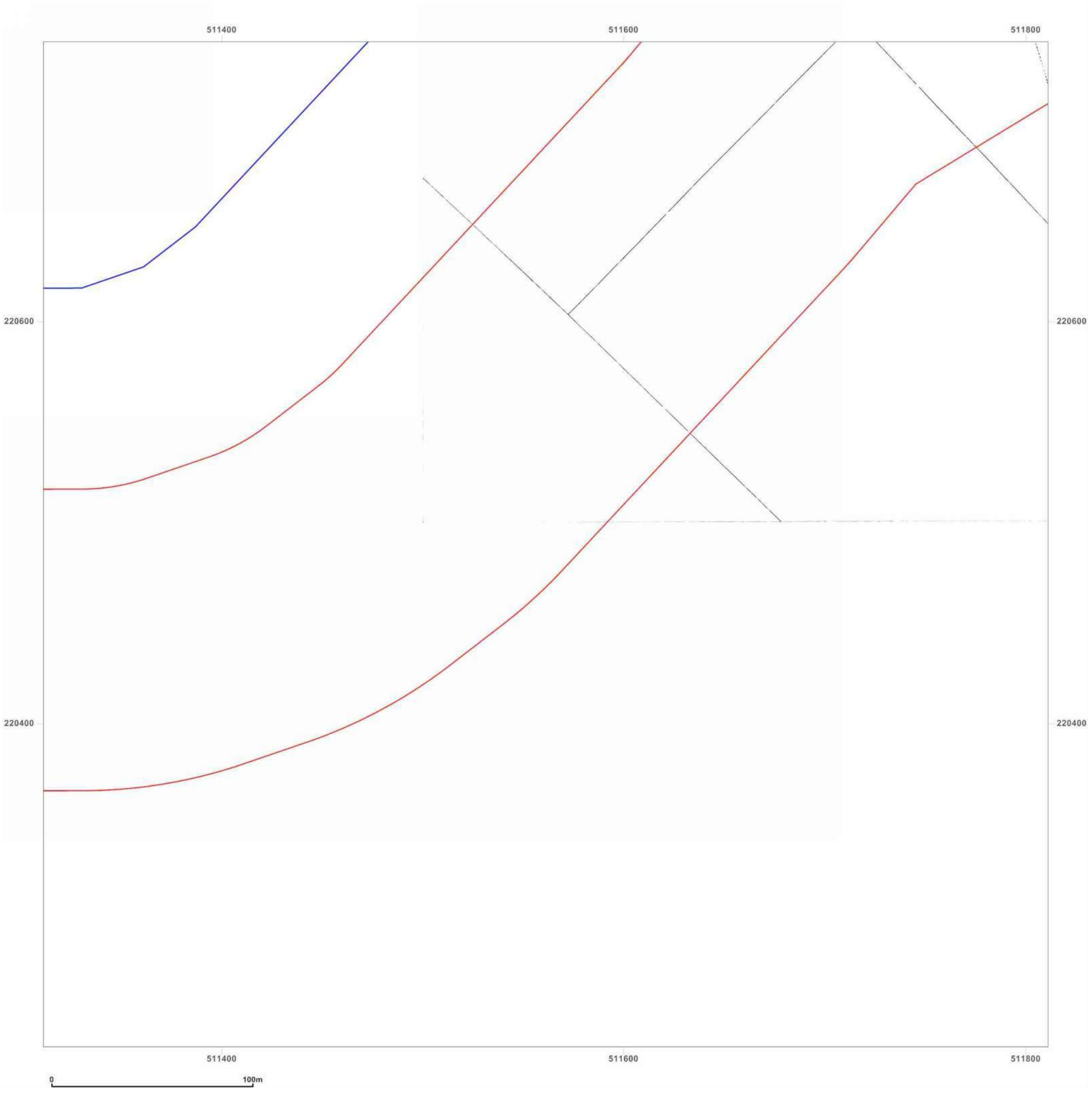


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_1
Grid Ref: 511561, 220489

Map Name: National Grid

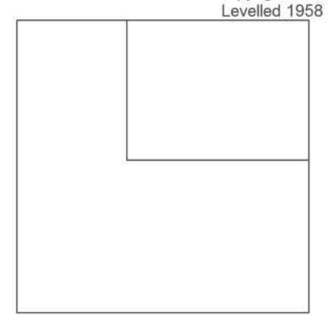
Map date: **1963**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1963
Levelled 1958



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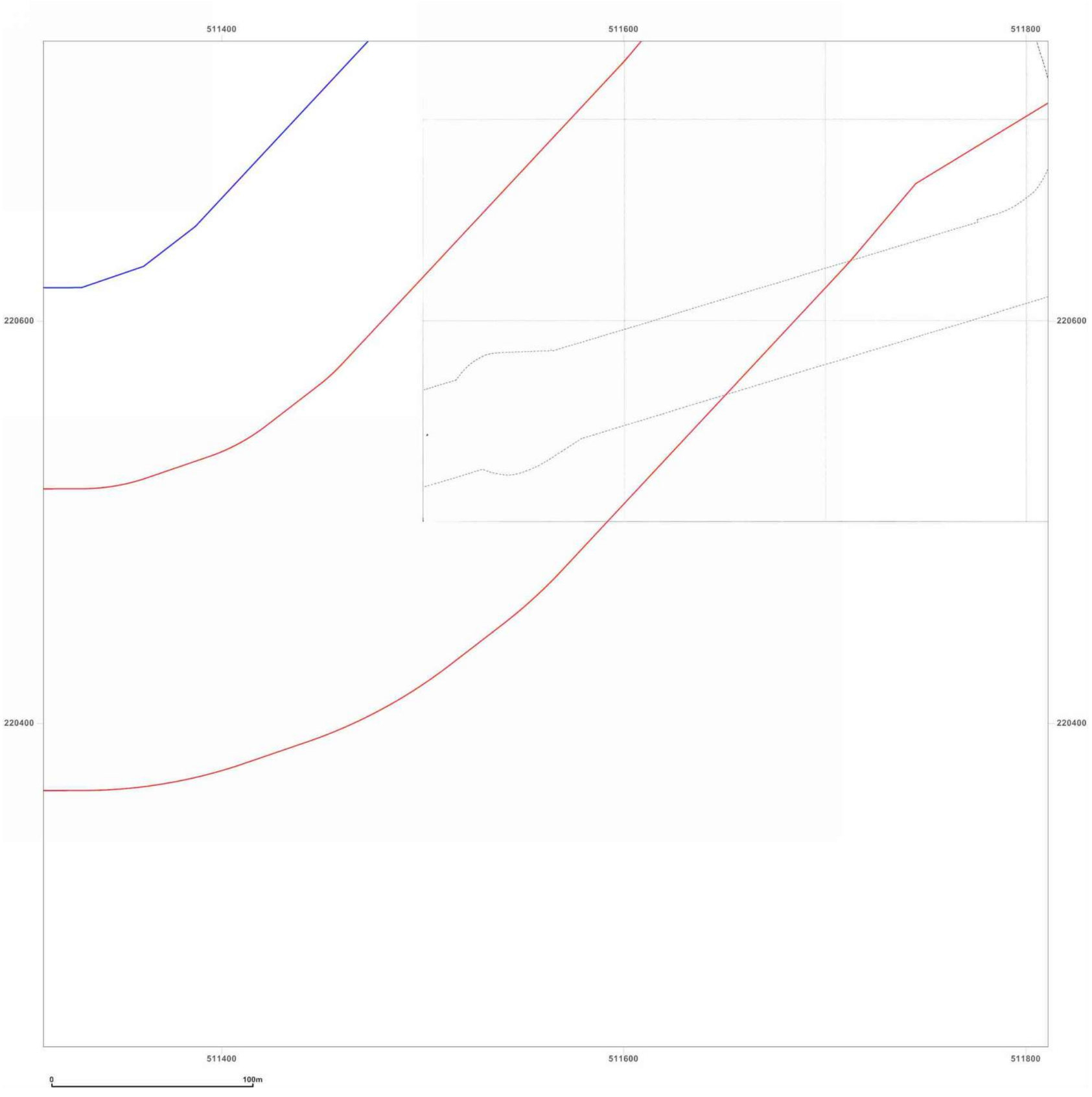


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_1
Grid Ref: 511561, 220489

Map Name: National Grid

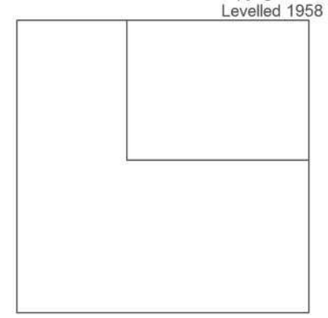
Map date: **1968**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1962
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958



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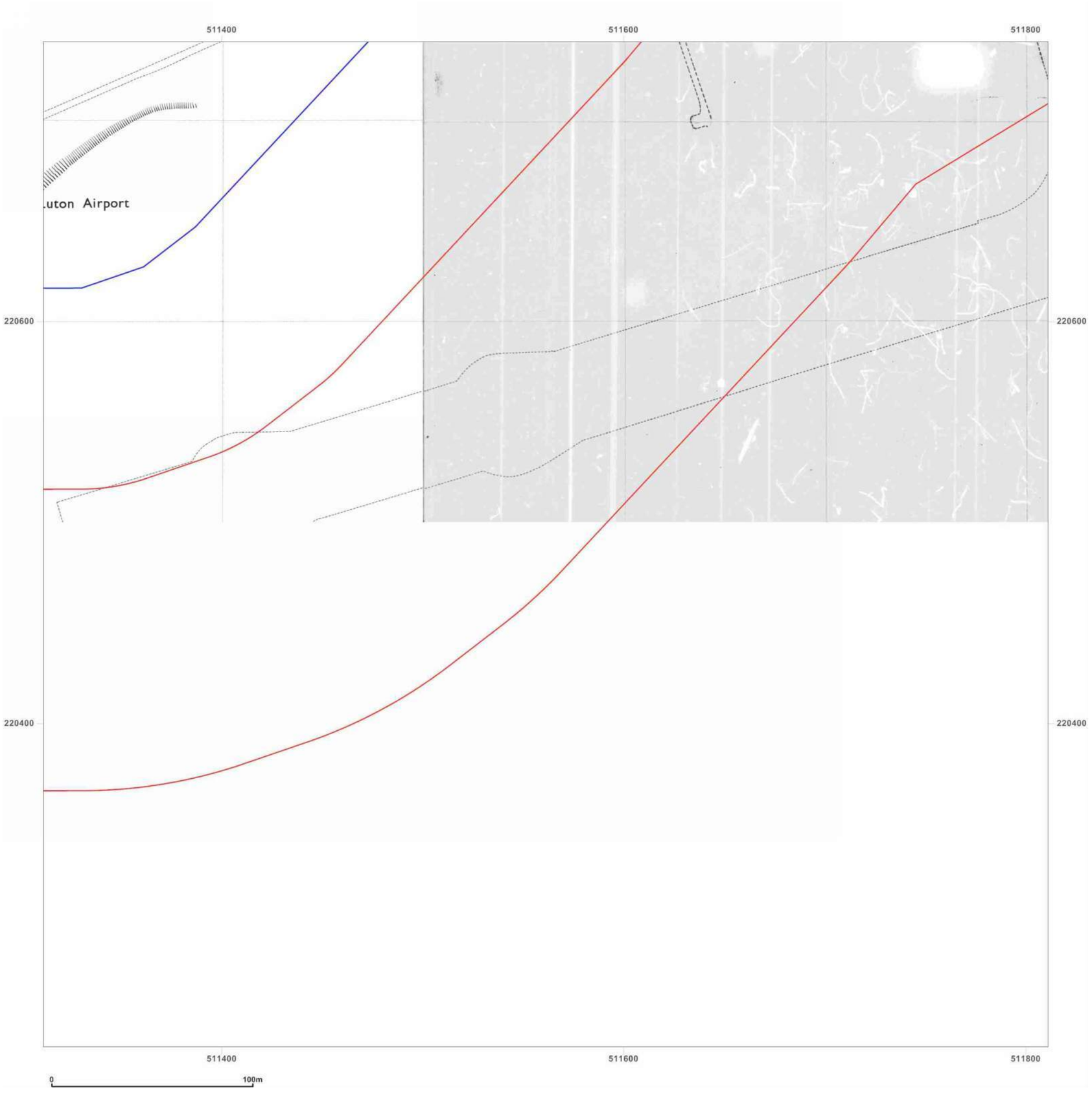


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_1
Grid Ref: 511561, 220489

Map Name: National Grid

Map date: **1973-1974**

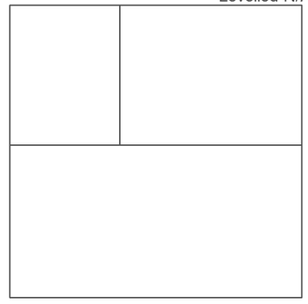
Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1973
Edition N/A
Copyright 1974
Levelled 1958

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



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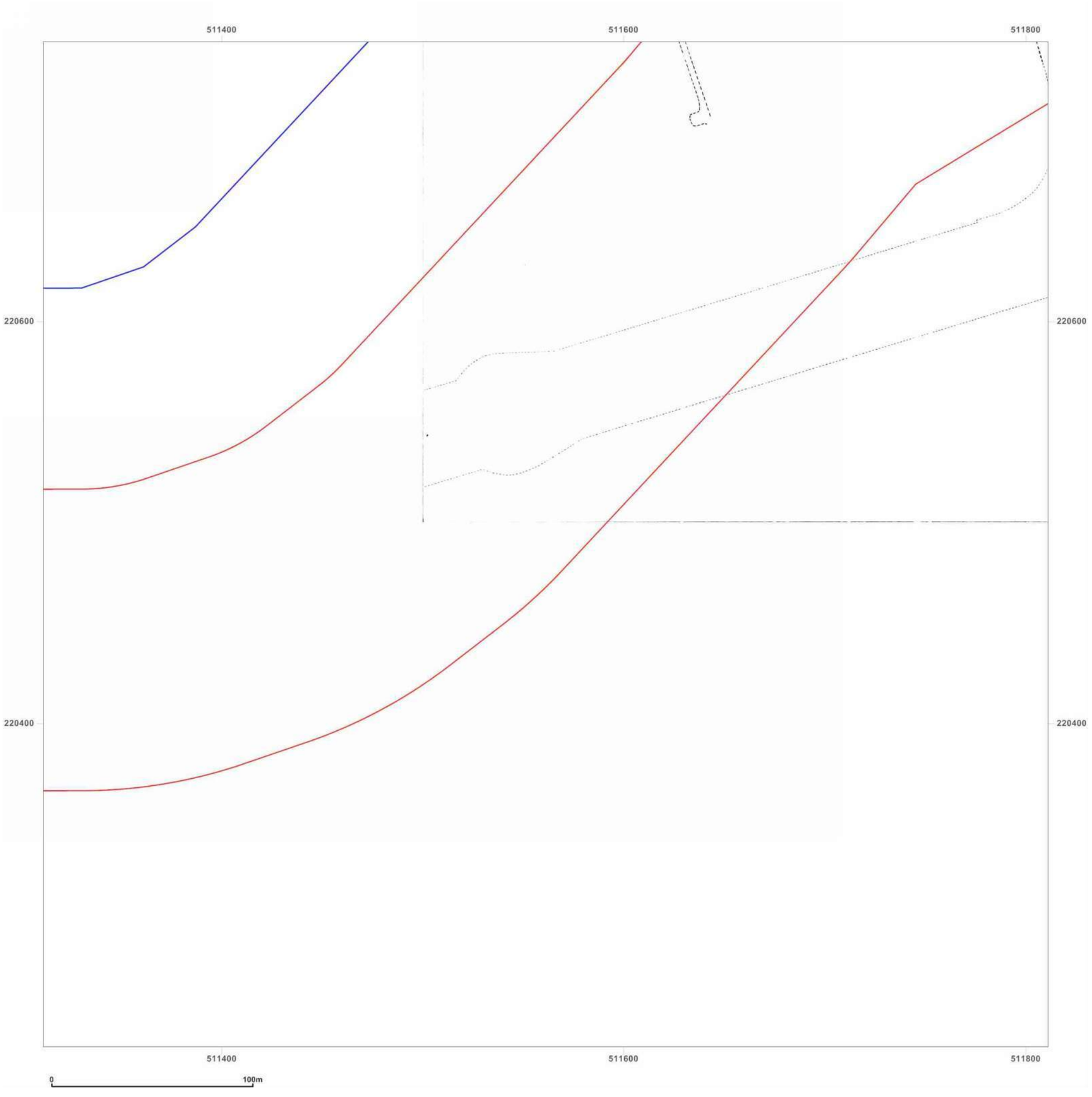

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_1
Grid Ref: 511561, 220489

Map Name: National Grid

Map date: **1975**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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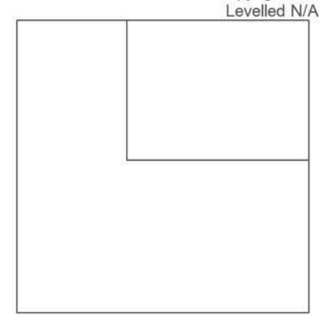
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A



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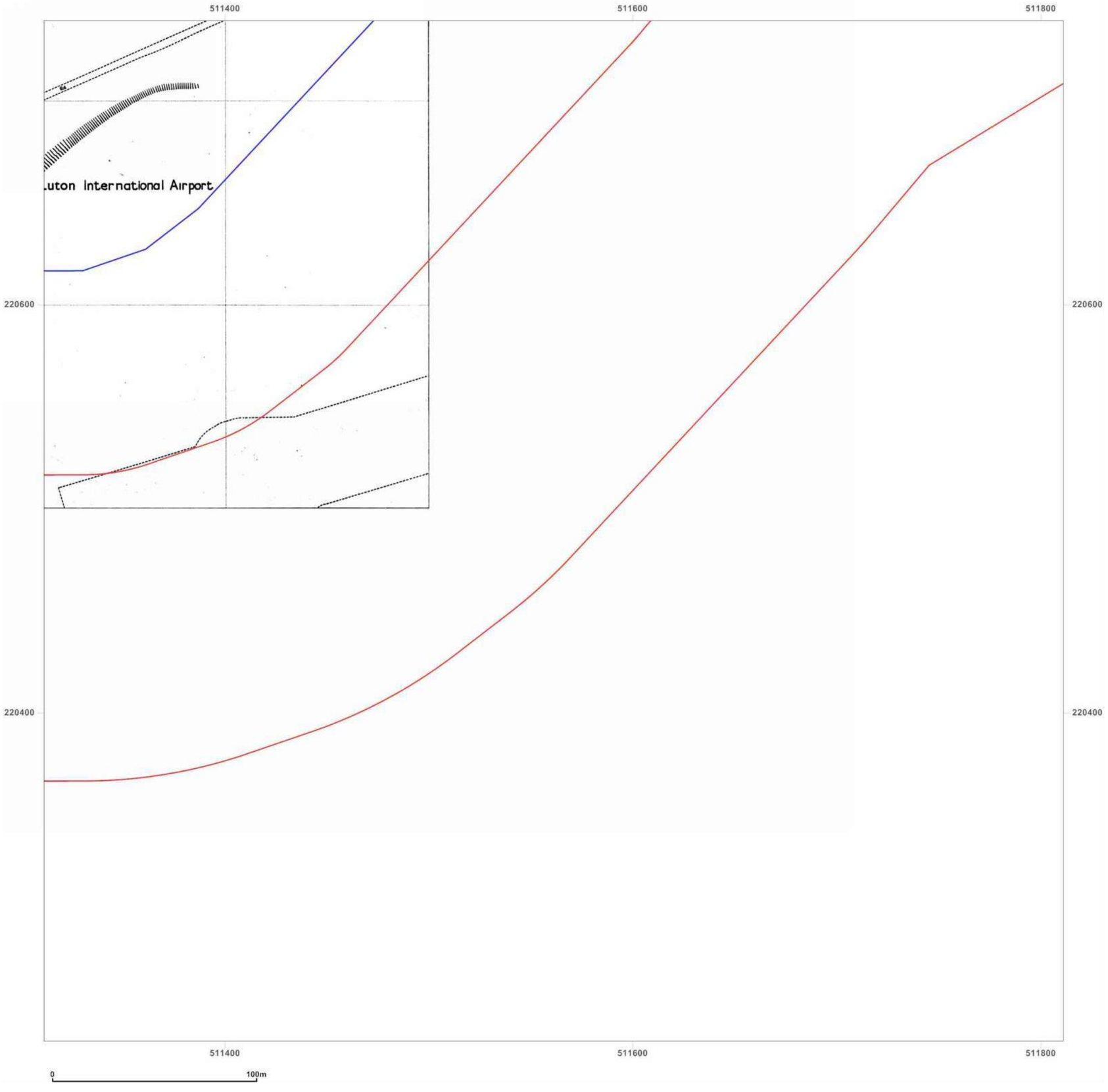

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_1
Grid Ref: 511561, 220489

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

N
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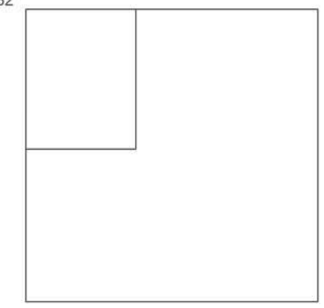
Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982



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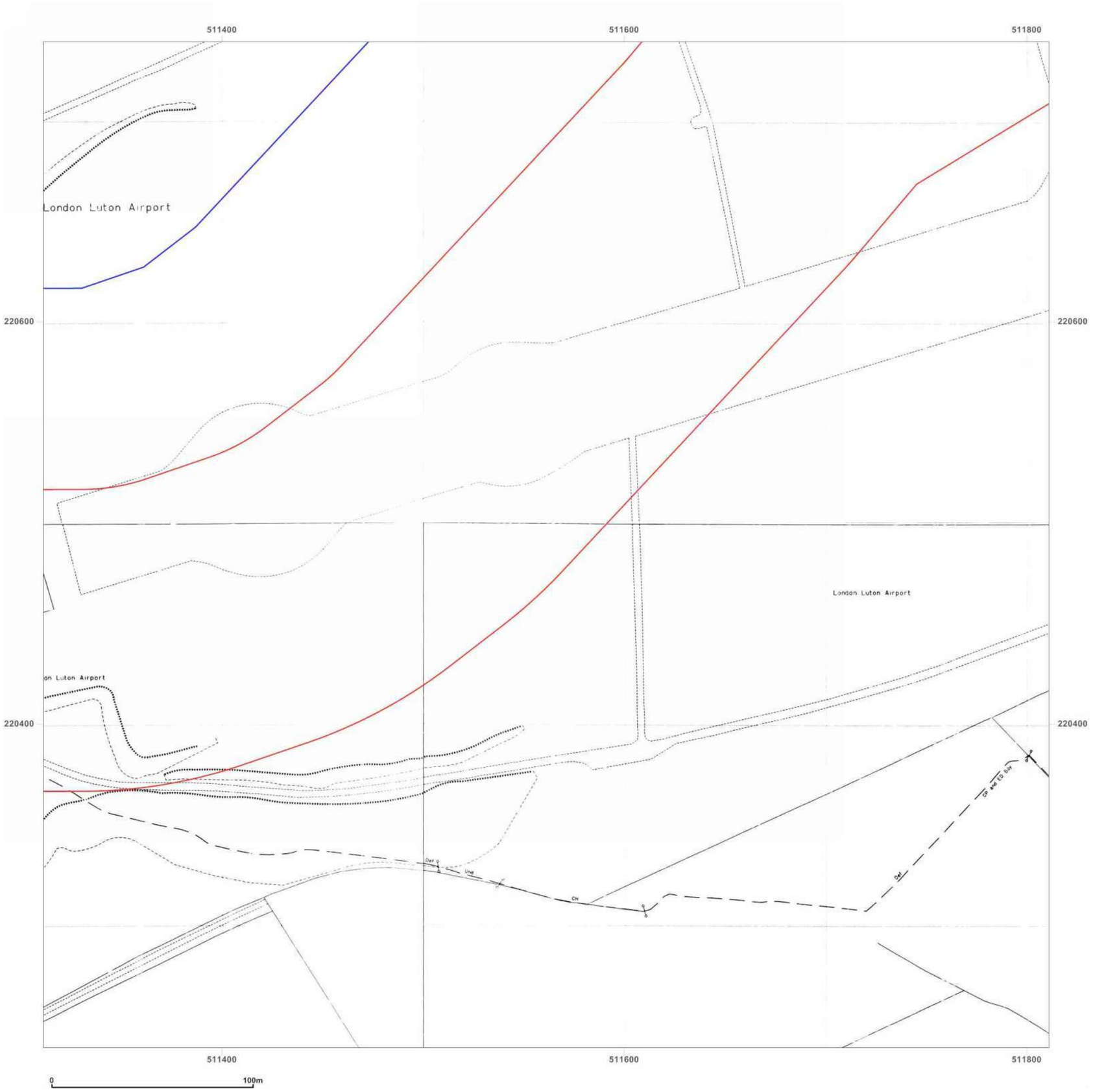

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_1
Grid Ref: 511561, 220489

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
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Edition N/A
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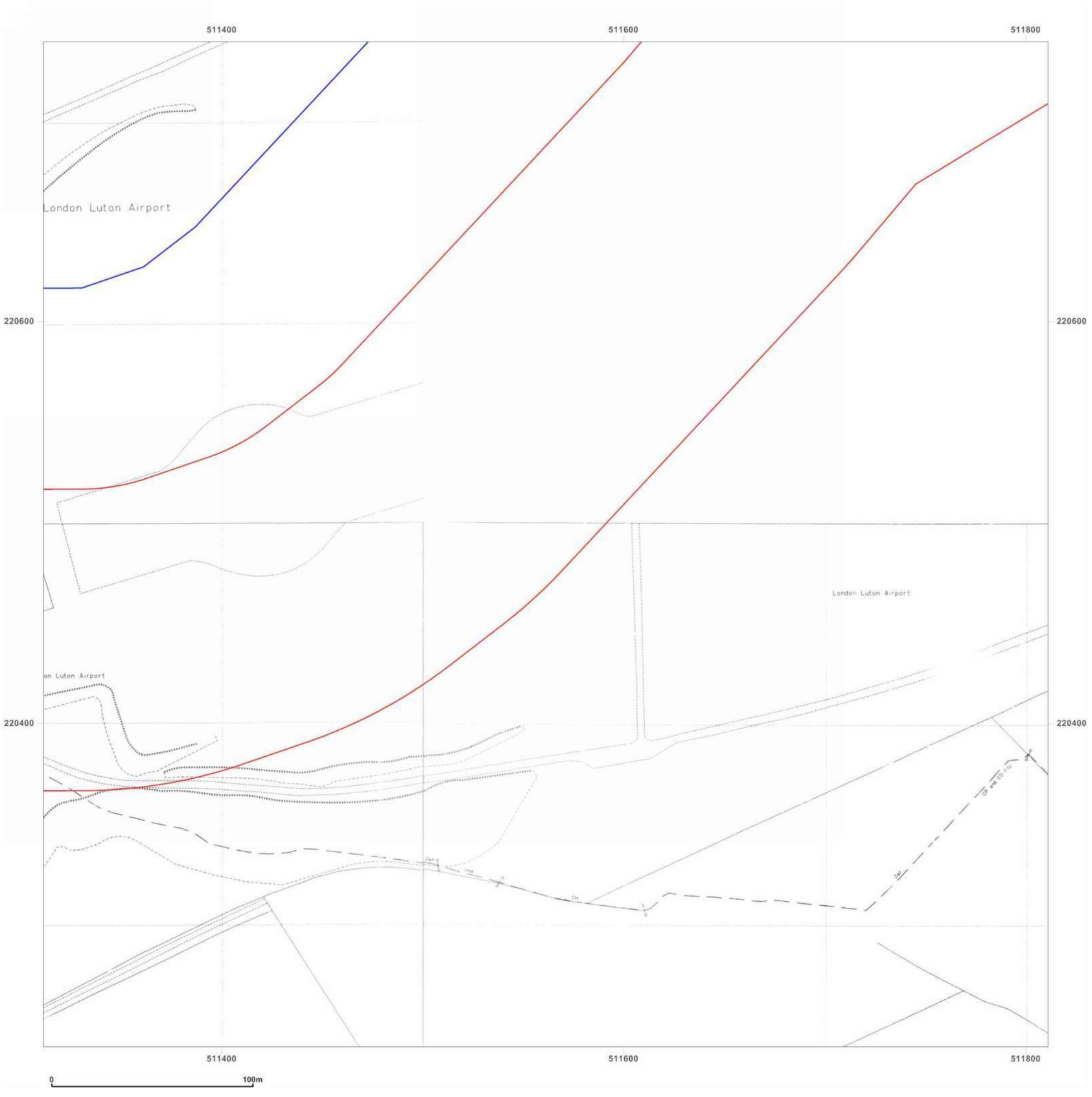

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_1
Grid Ref: 511561, 220489

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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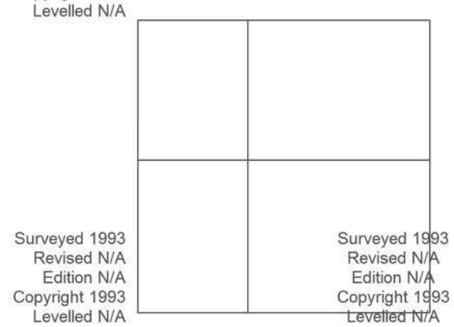
Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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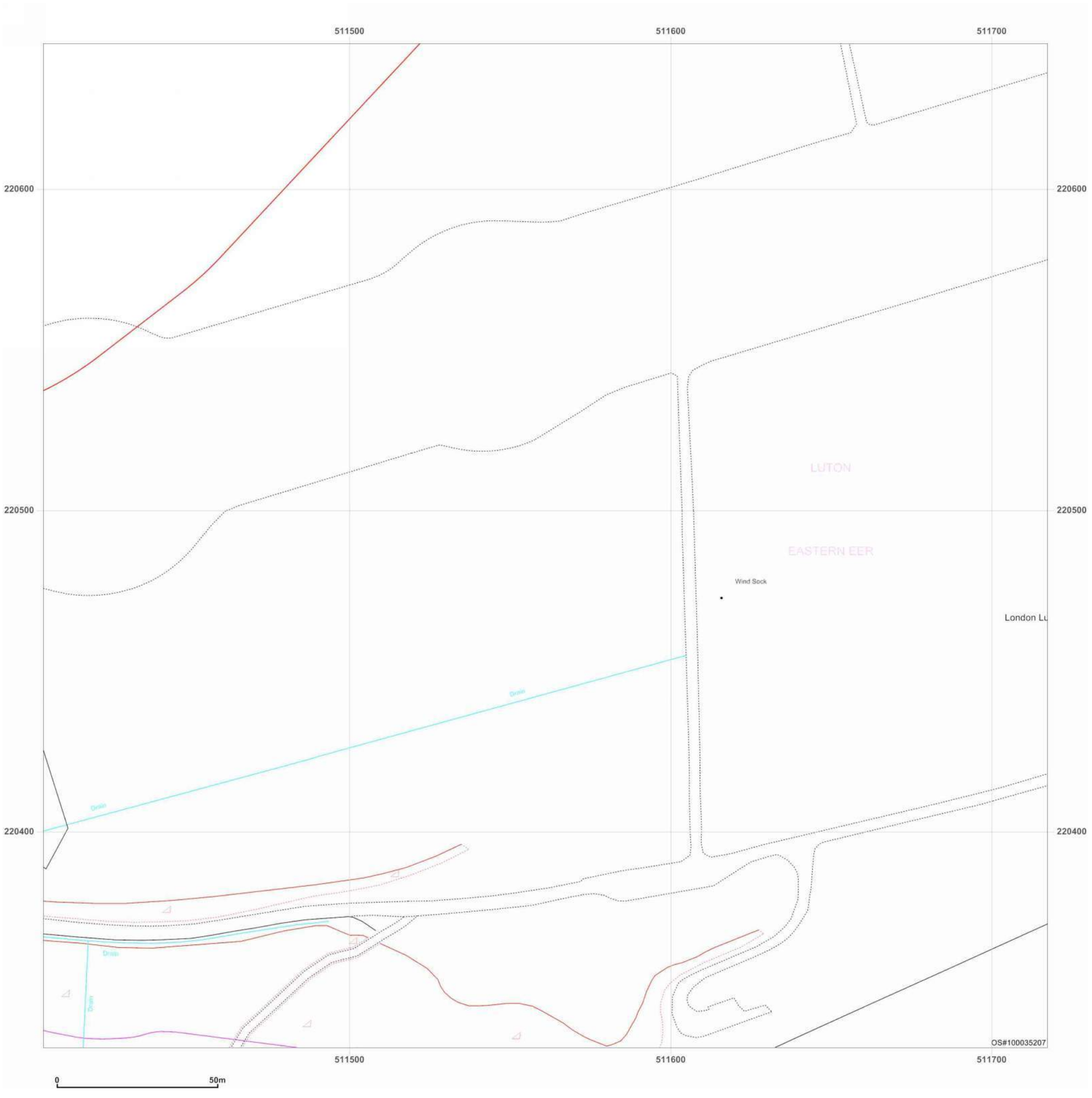


Groundsure INSIGHTS

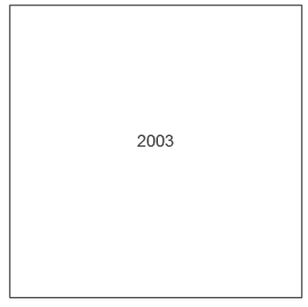
Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_1
Grid Ref: 511561, 220489

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S



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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: National Grid

Map date: **1962-1963**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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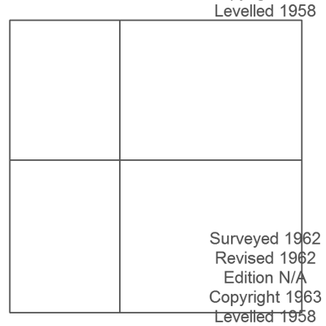
Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1958



Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1958

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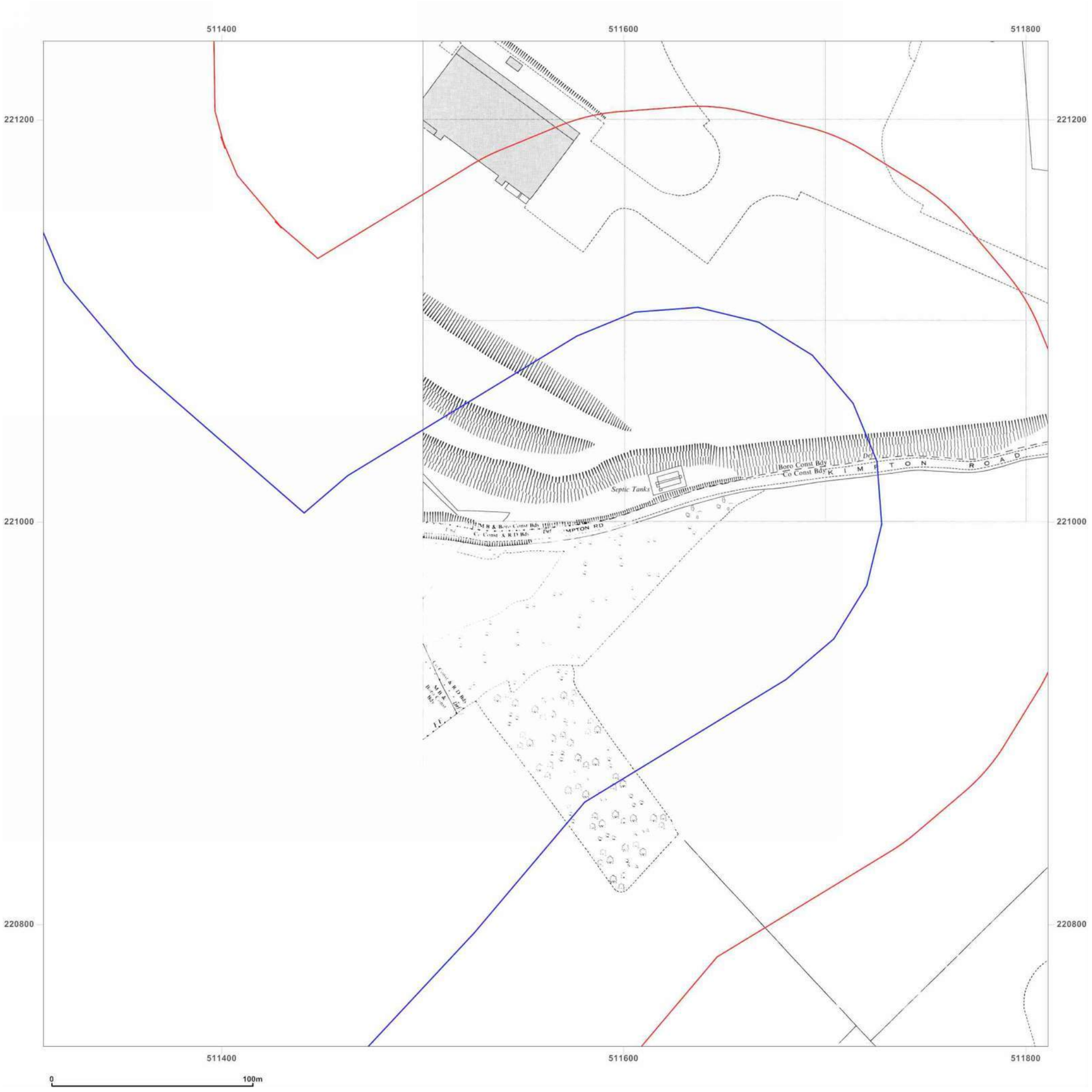

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: National Grid

Map date: **1963-1968**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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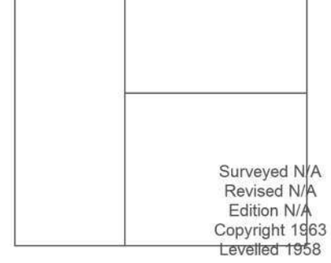

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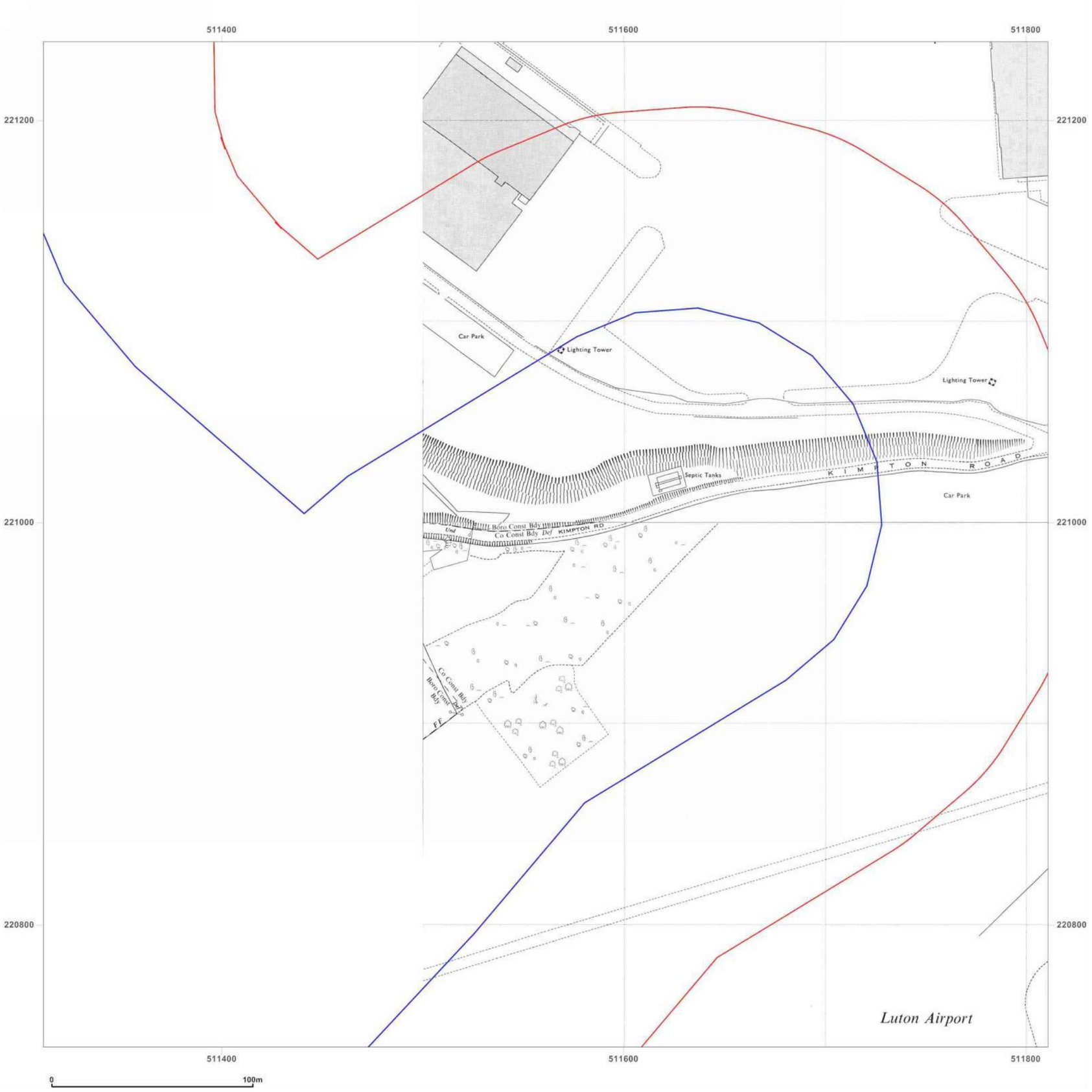

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: National Grid

Map date: **1968-1973**

Scale: 1:1,250

Printed at: 1:2,000

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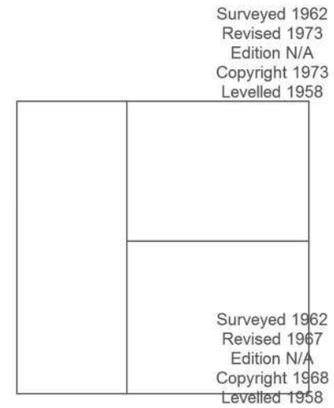

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Production date: 23 November 2020

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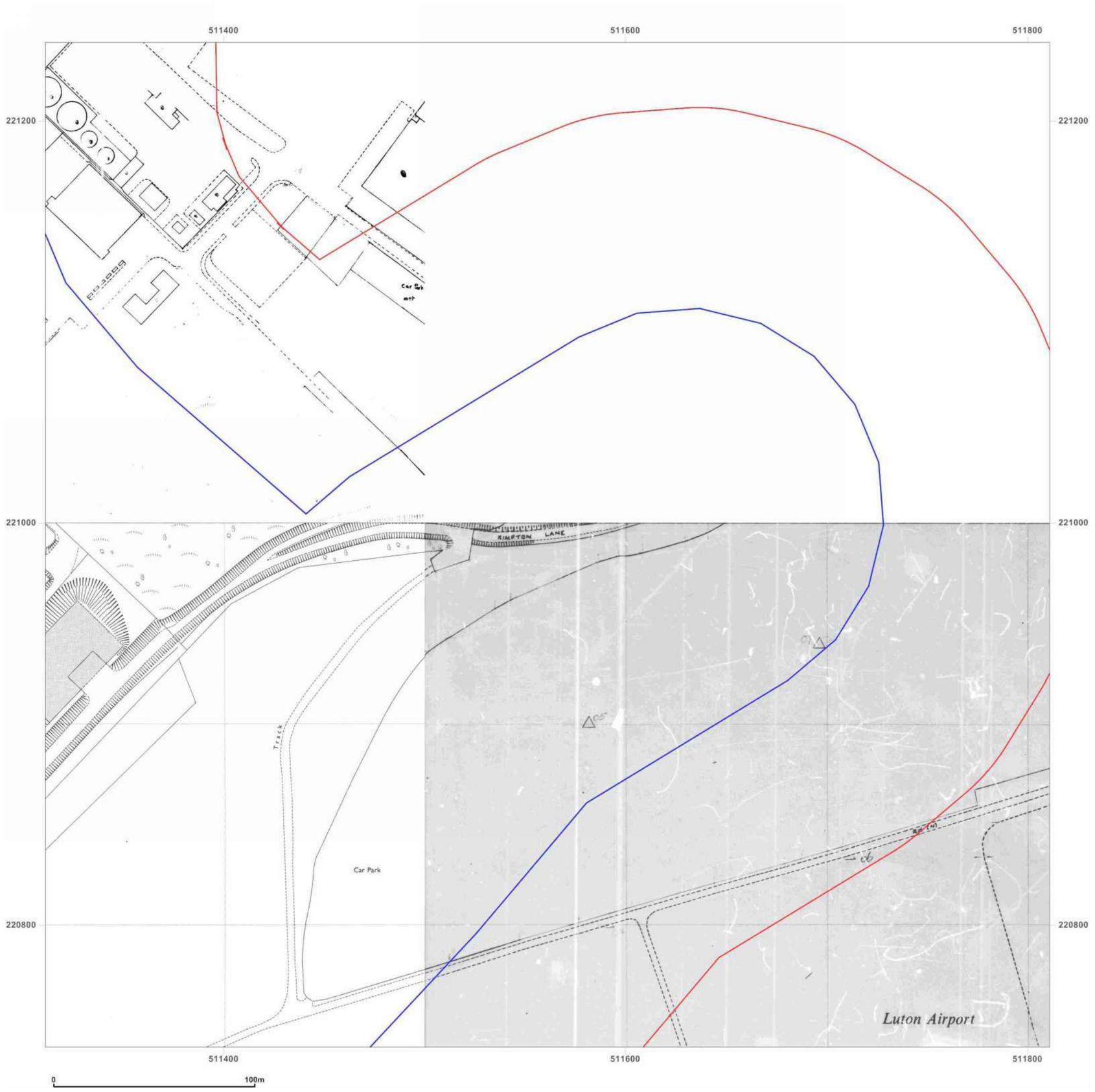

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: National Grid

Map date: **1973-1974**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1961
Revised 1973
Edition N/A
Copyright 1974
Levelled 1958

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

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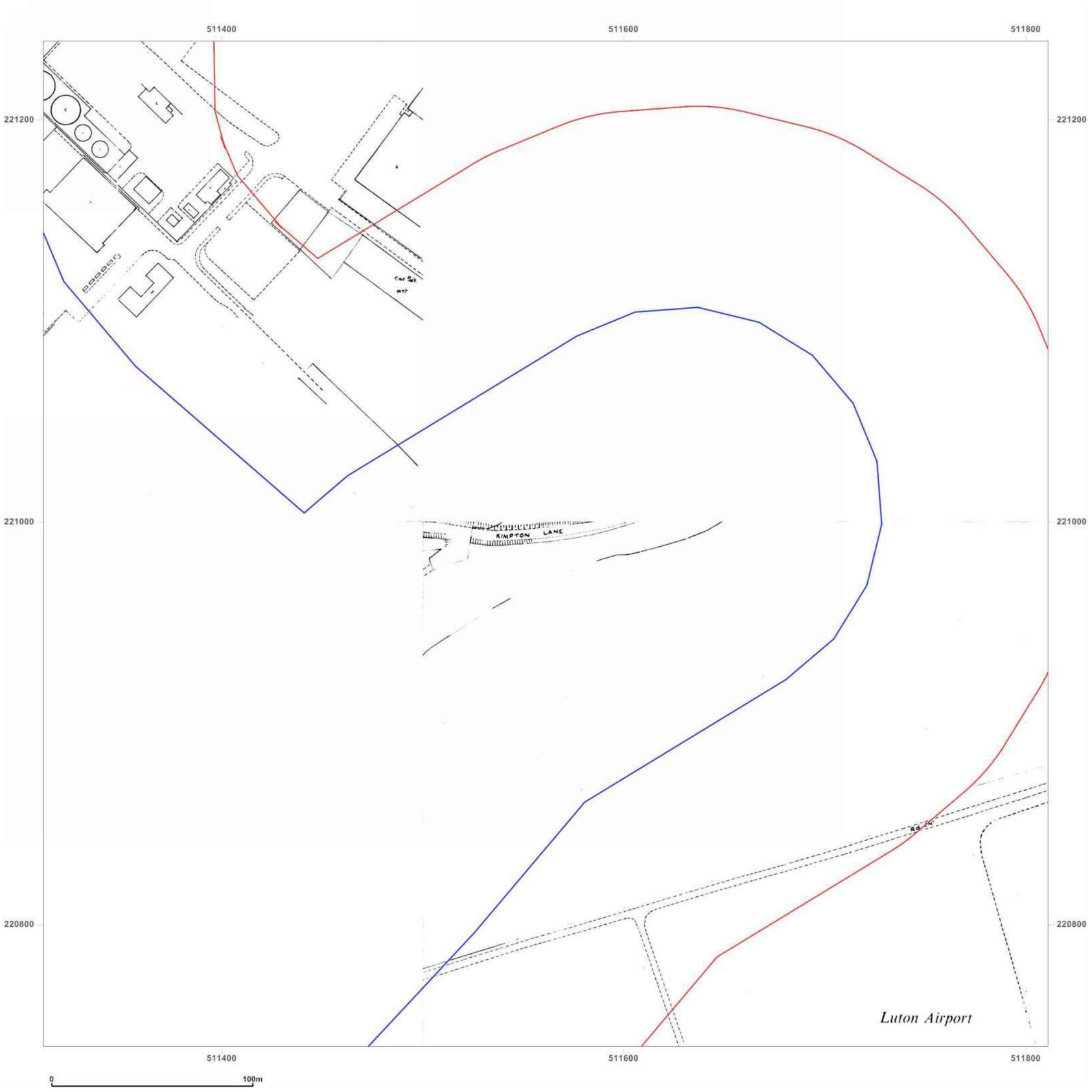

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: National Grid

Map date: **1975**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A

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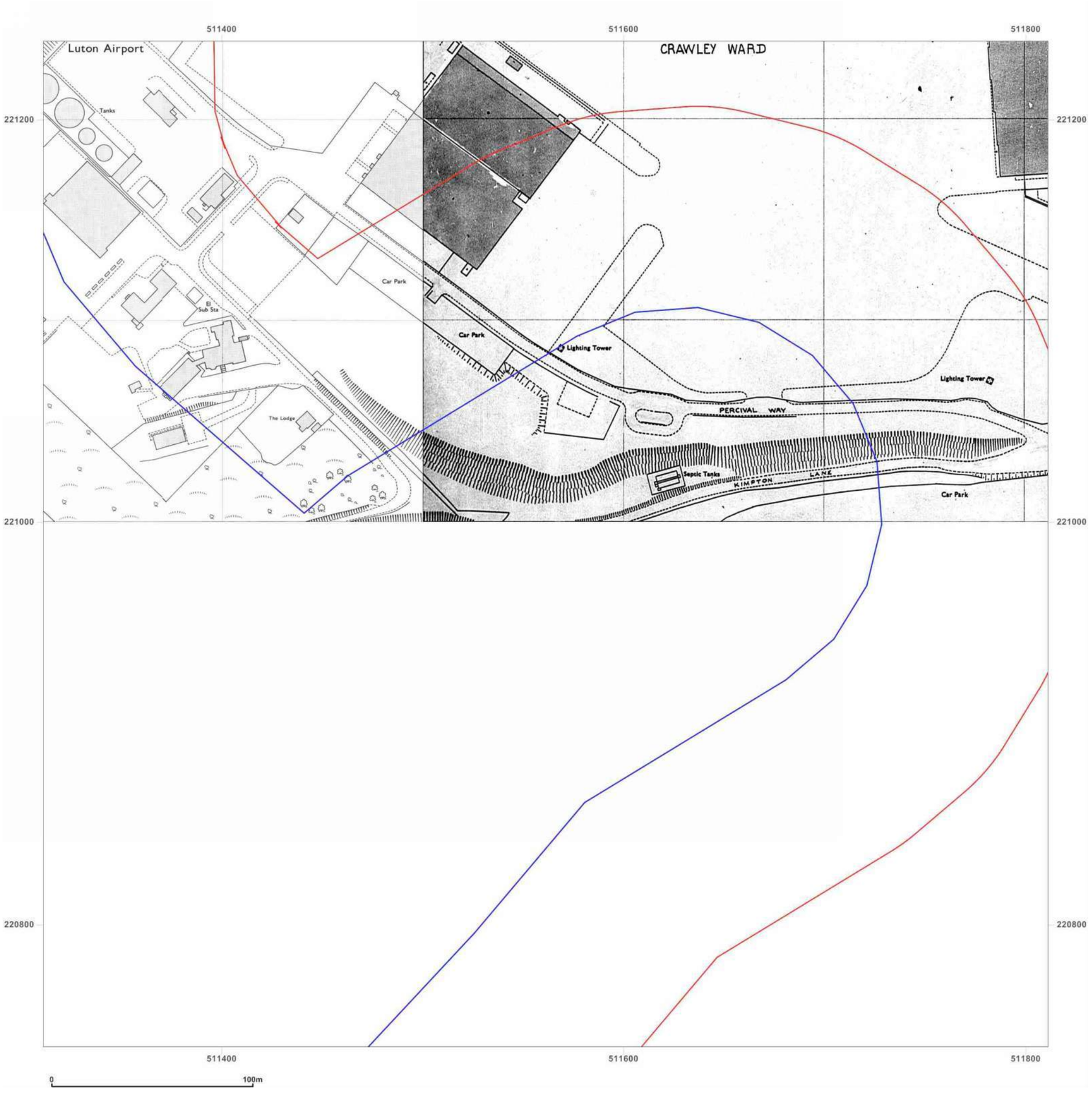

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: National Grid

Map date: **1976-1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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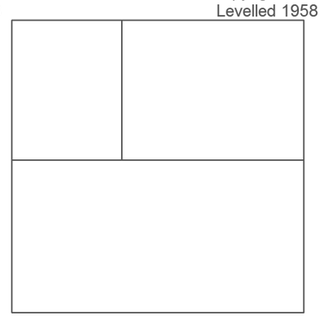
Surveyed 1961
Revised 1975
Edition N/A
Copyright 1976
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958



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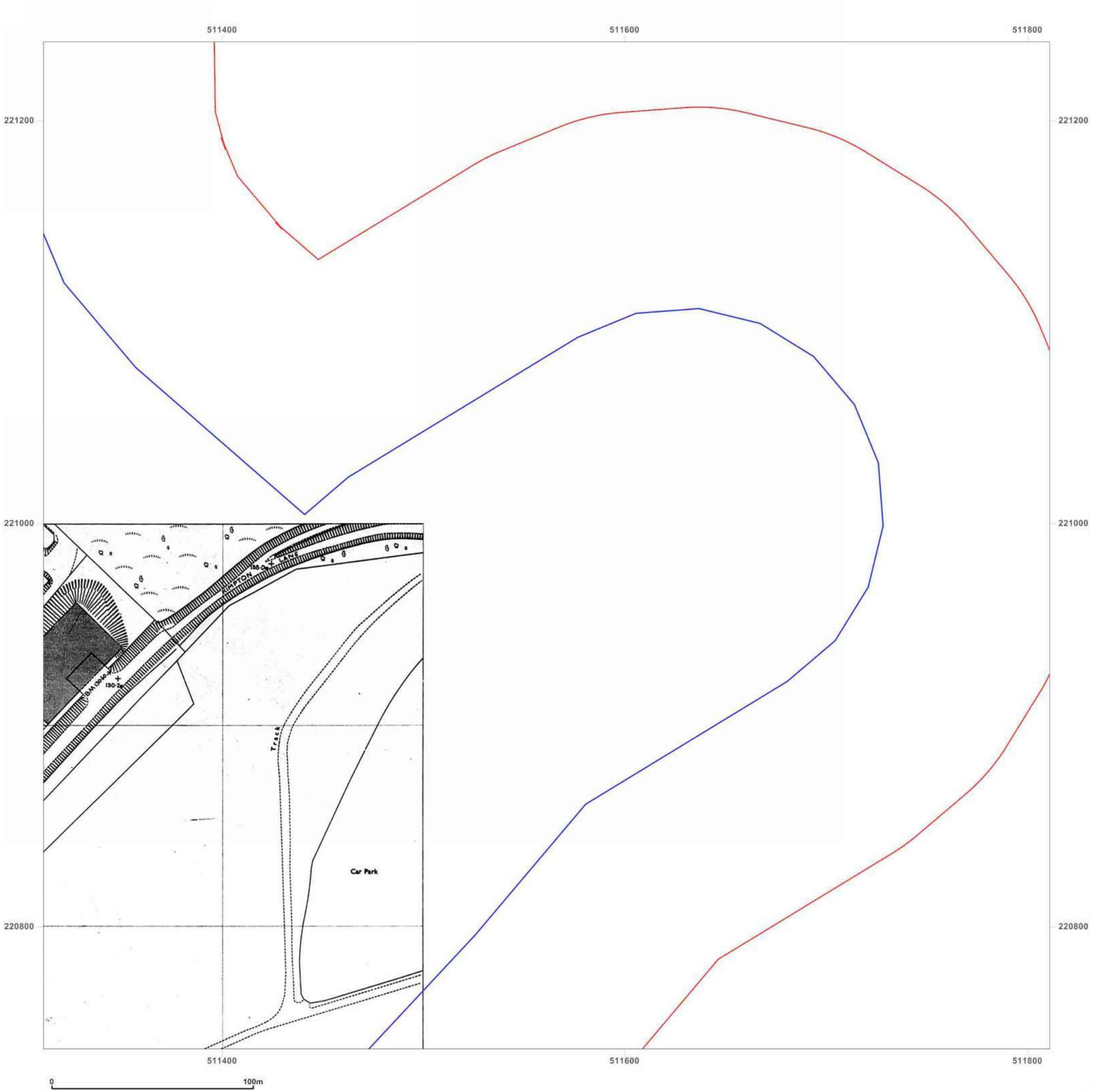

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

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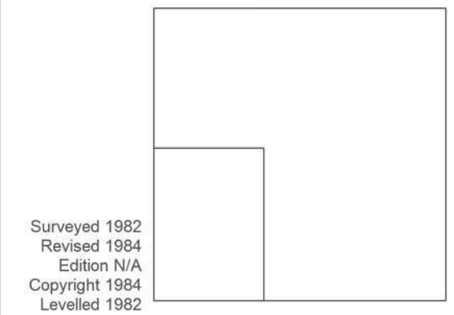

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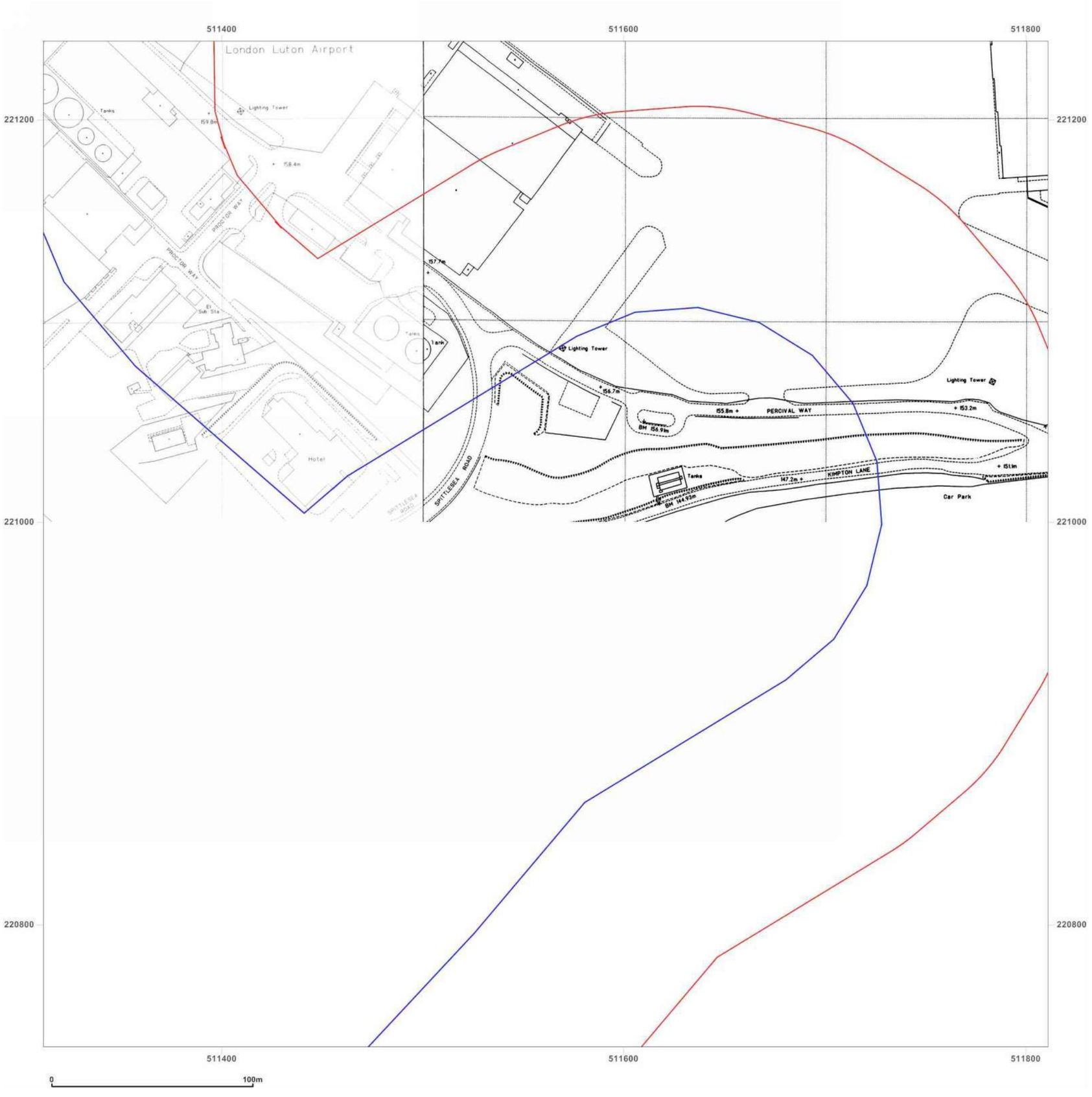

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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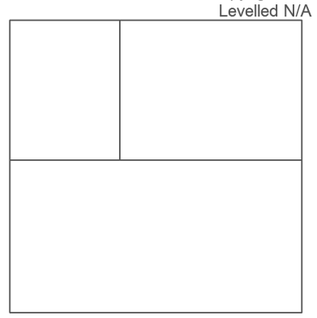
Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: National Grid

Map date: **1991-1993**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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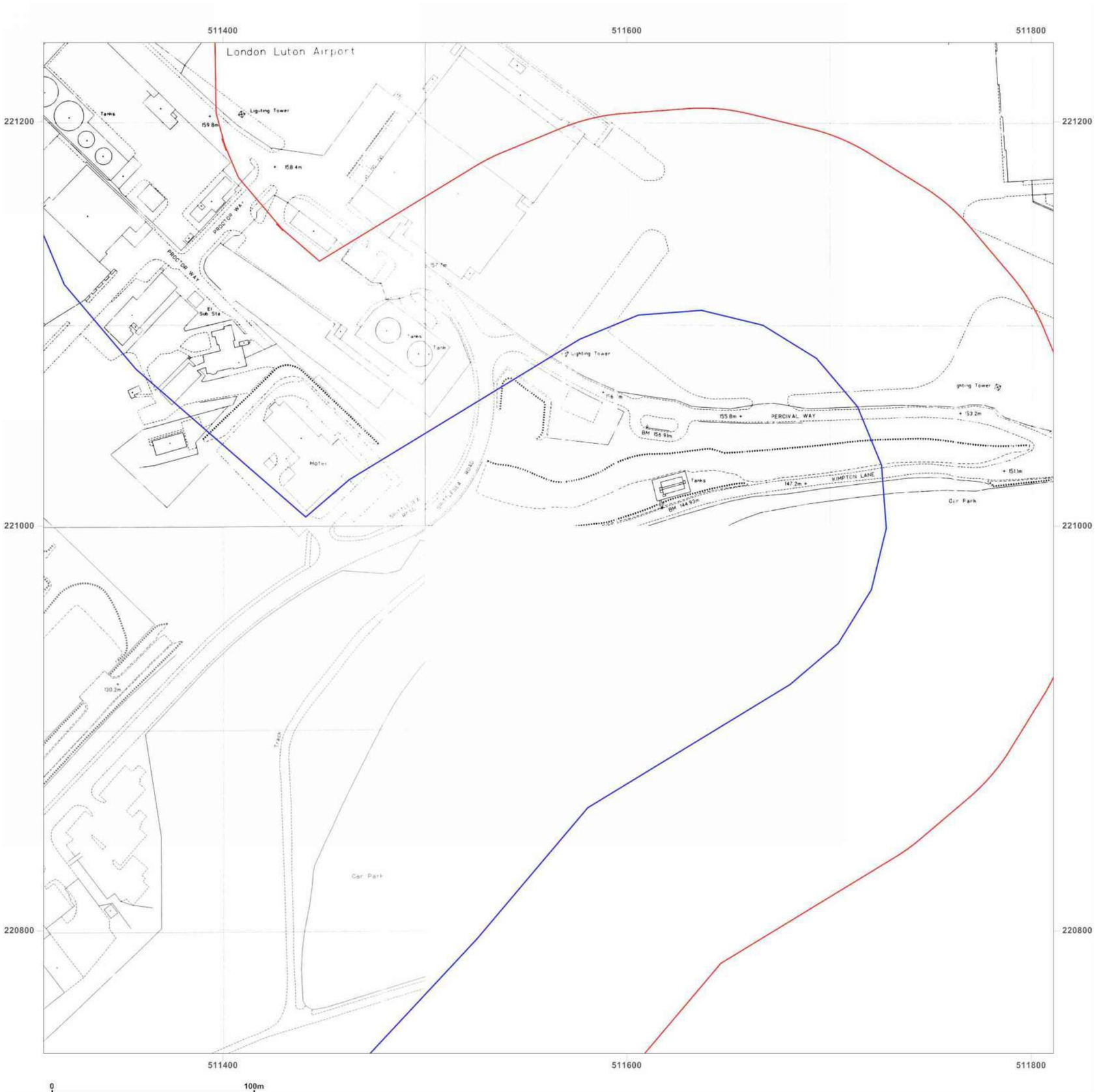

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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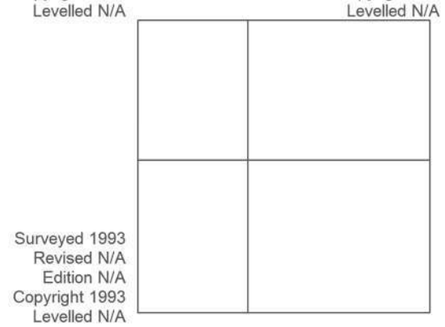
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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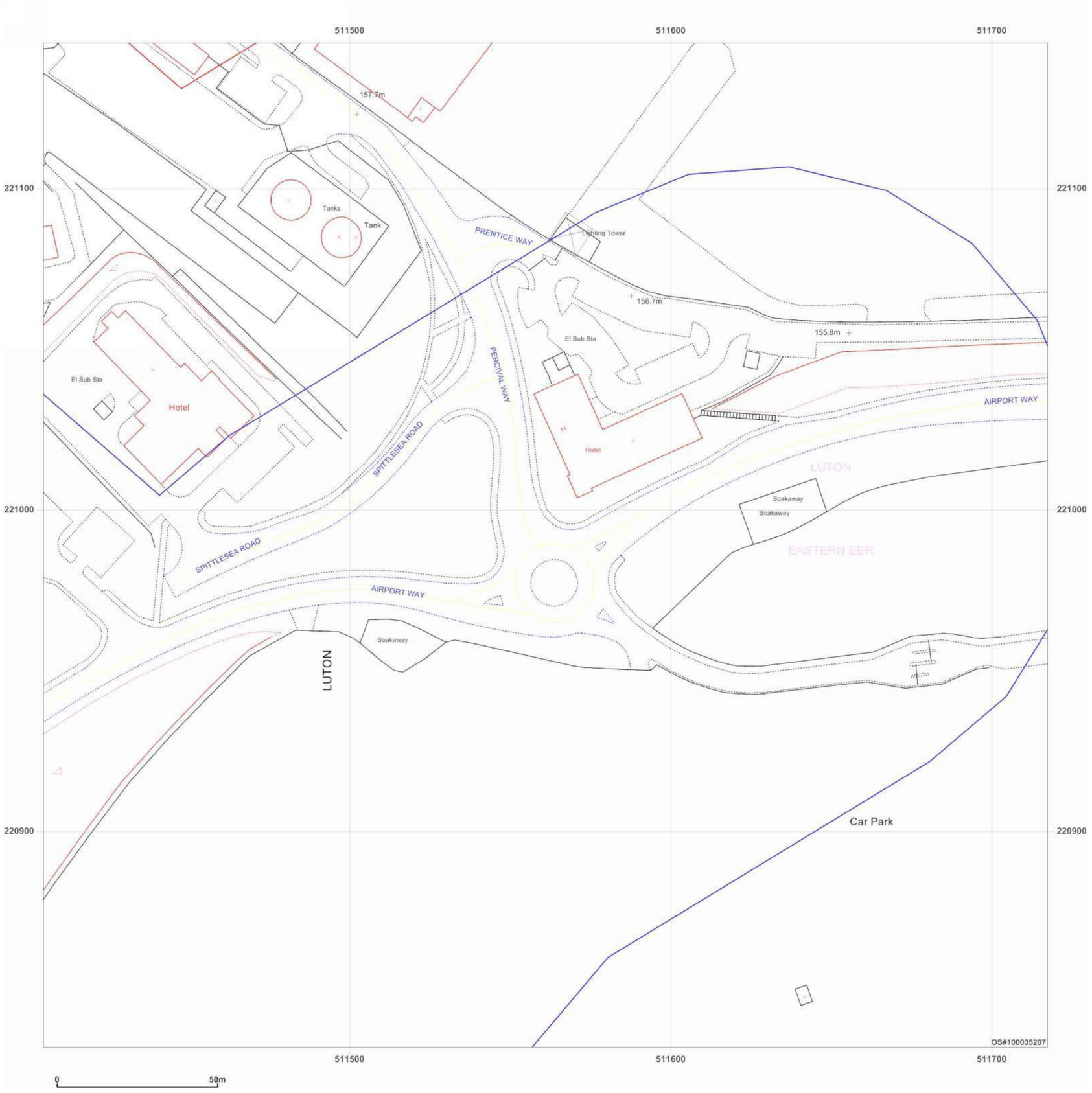

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_2
Grid Ref: 511561, 220989

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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2003

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1962-1963**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1966-1968**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1961
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

Surveyed 1962
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

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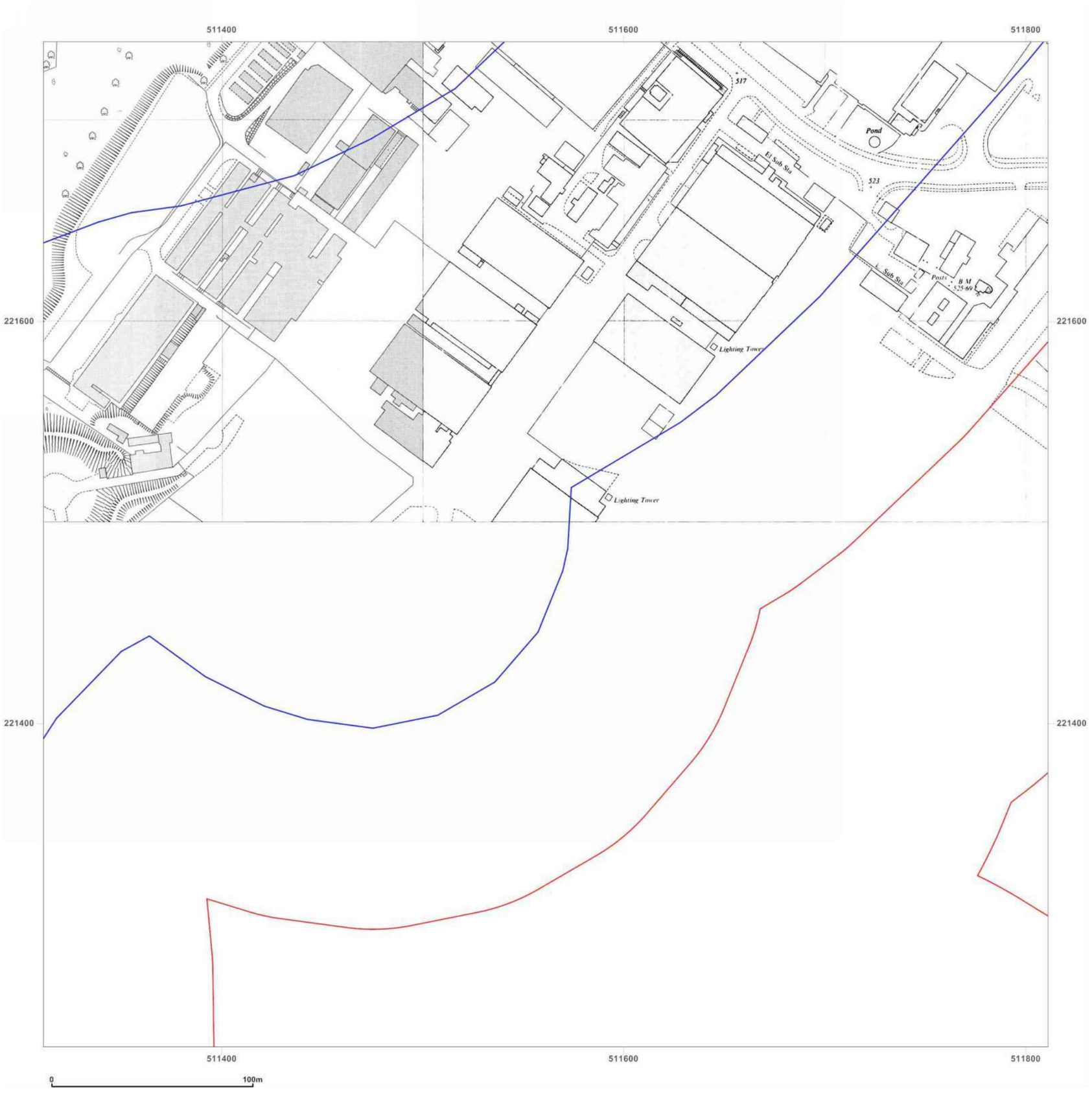

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1967-1968**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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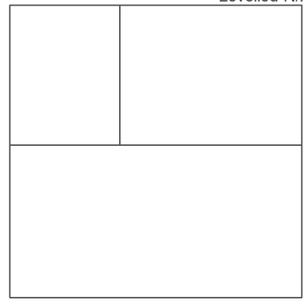
Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1958

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



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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1968-1973**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1968
Levelled N/A

Surveyed 1962
Revised 1973
Edition N/A
Copyright 1973
Levelled 1958

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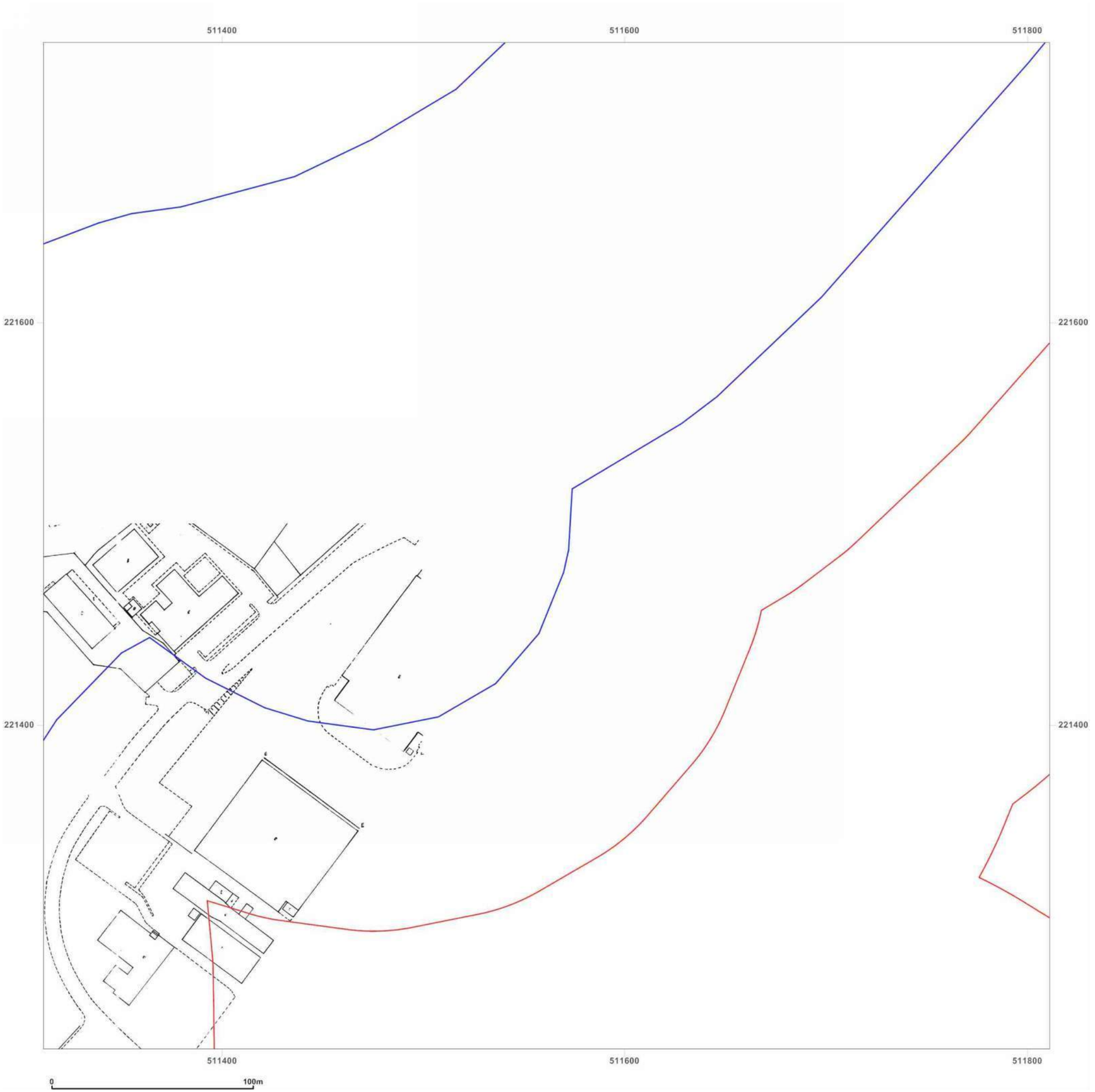

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid
Map date: **1975**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
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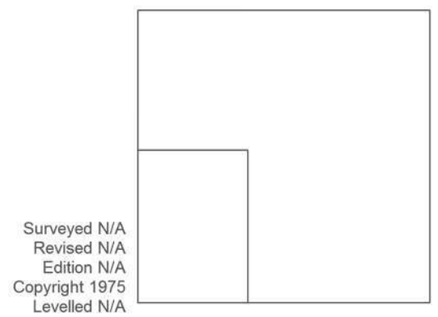

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Revised N/A
Edition N/A
Copyright 1975
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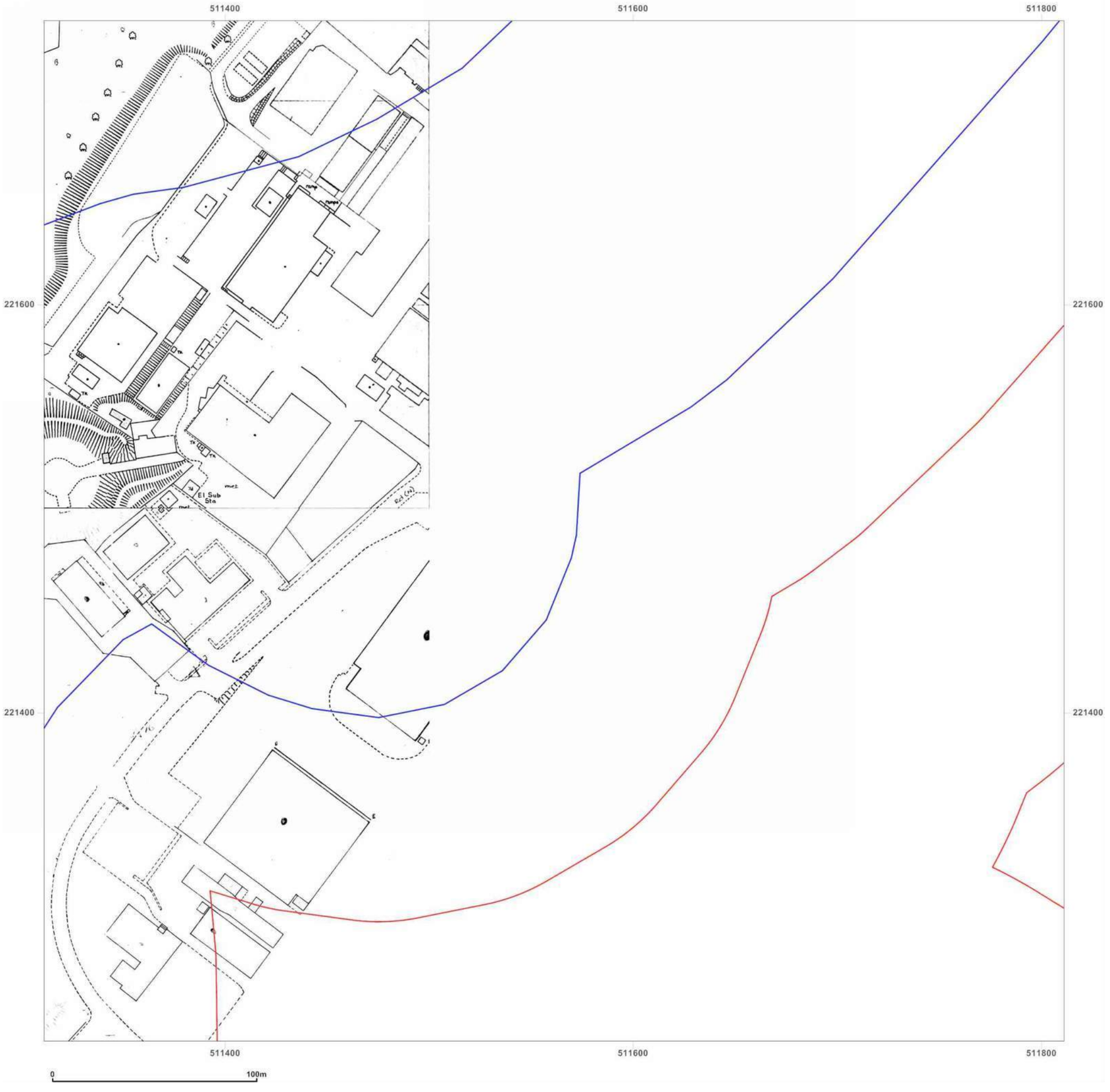

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1974-1979**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed 1958
Revised 1979
Edition N/A
Copyright 1979
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1976-1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958

Surveyed 1961
Revised 1975
Edition N/A
Copyright 1976
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
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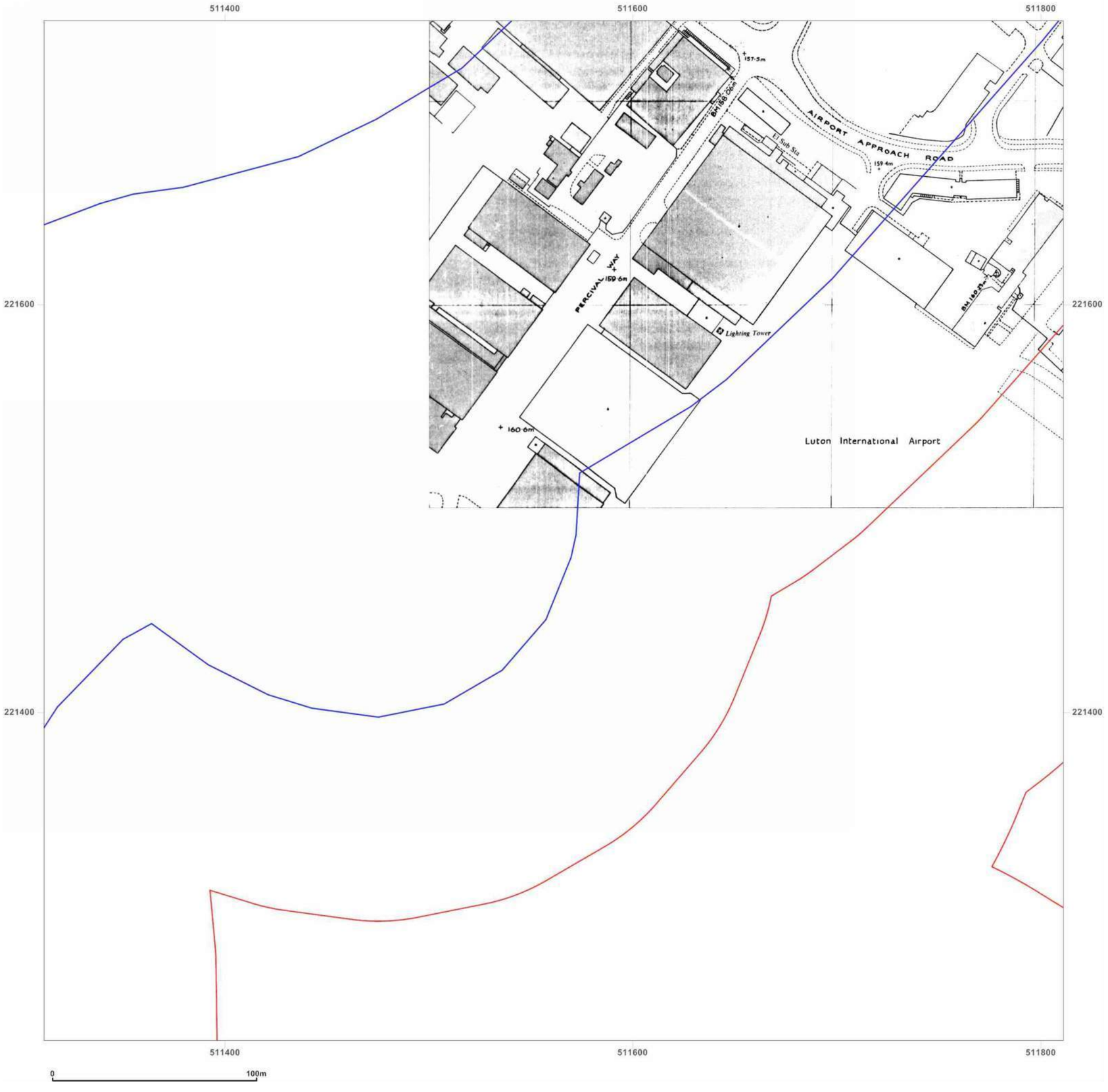

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1987**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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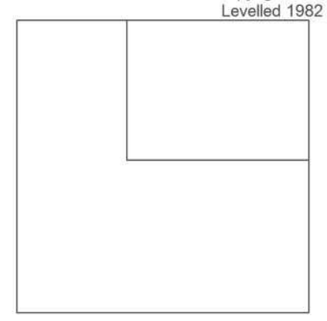
Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982



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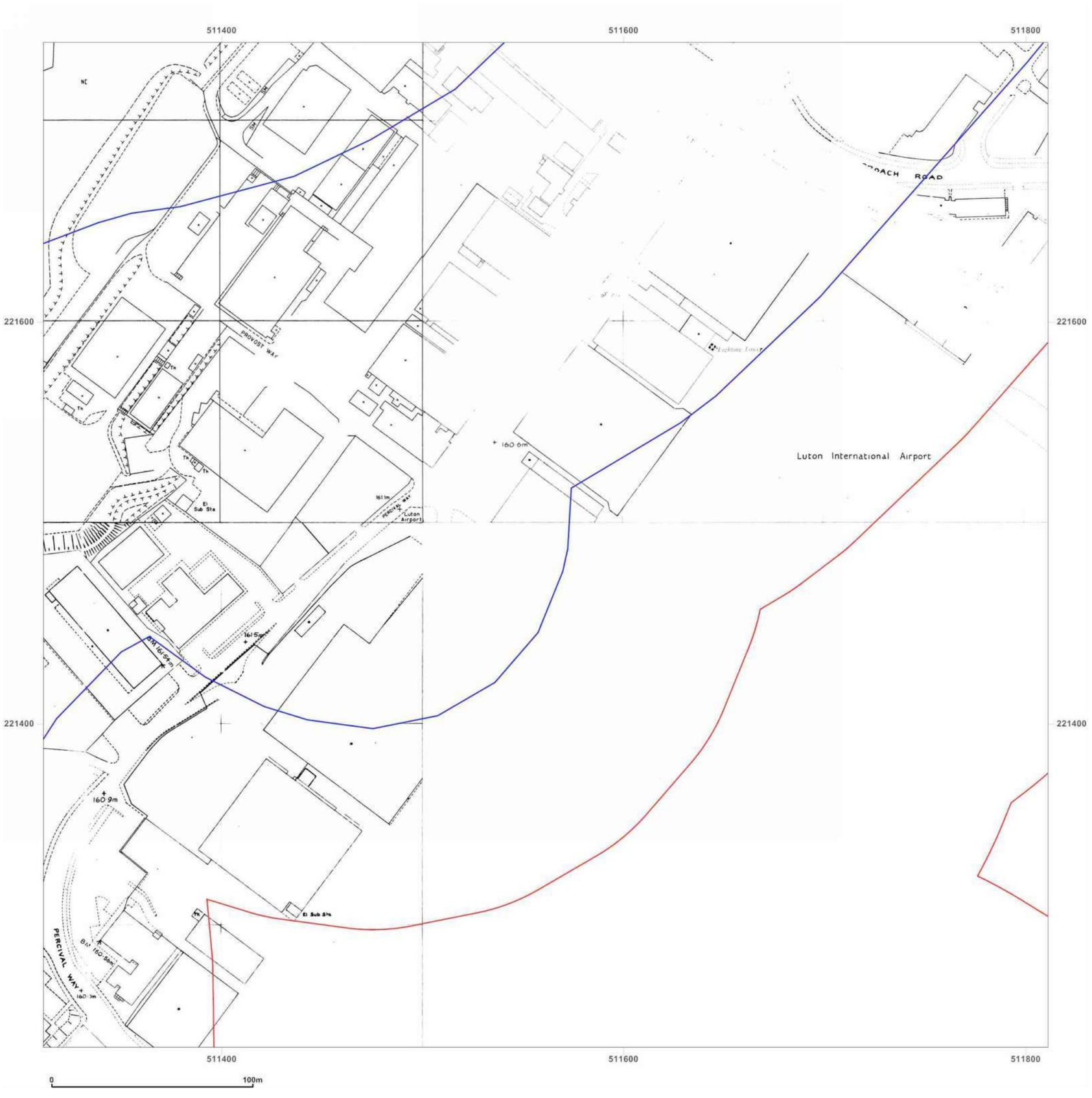

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1987-1991**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1990
Revised 1990
Edition N/A
Copyright 1990
Levelled N/A

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1991
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1991-1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1991
Levelled 1982

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Production date: 23 November 2020

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Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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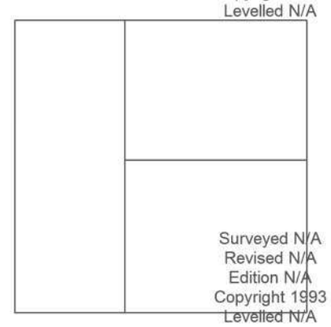

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Production date: 23 November 2020

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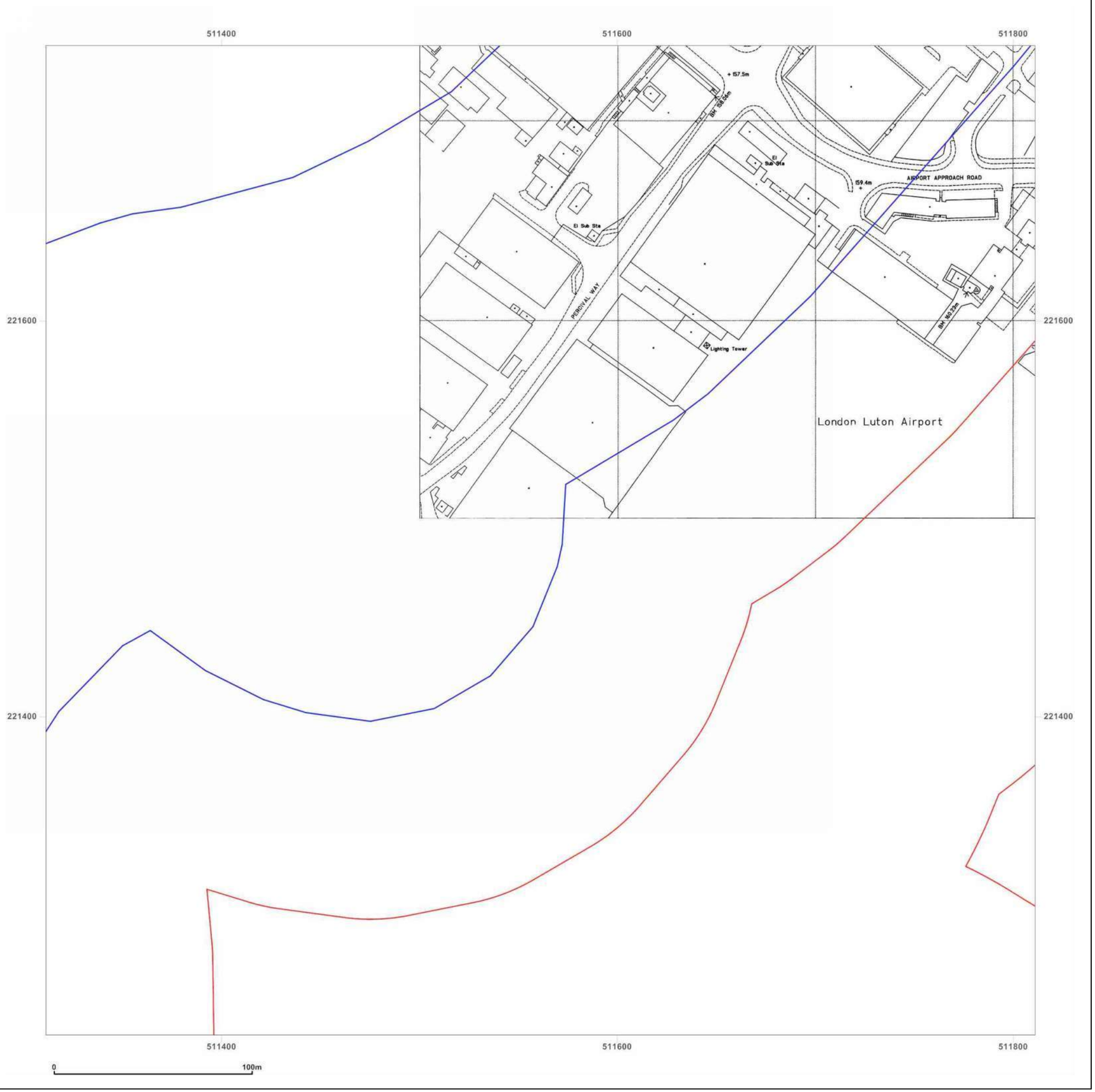

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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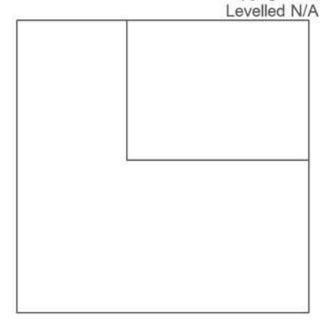
Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_3
Grid Ref: 511561, 221489

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
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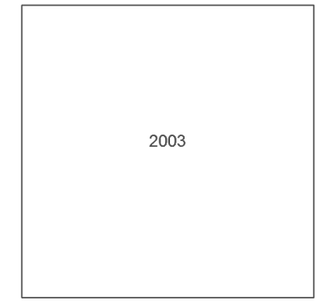

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid

Map date: **1966-1967**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1966
Edition N/A
Copyright 1966
Levelled 1958

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

Surveyed 1961
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid

Map date: **1967-1968**

Scale: 1:1,250

Printed at: 1:2,000

N
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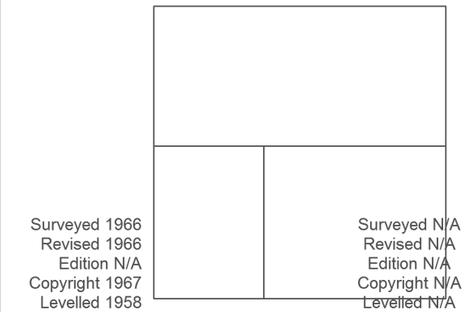

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid
Map date: **1968-1973**
Scale: 1:1,250
Printed at: 1:2,000

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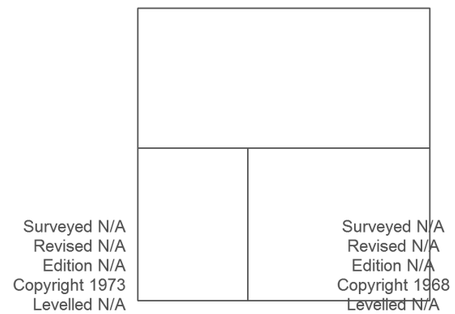

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid

Map date: **1978-1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled N/A

Surveyed 1958
Revised 1979
Edition N/A
Copyright 1979
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958

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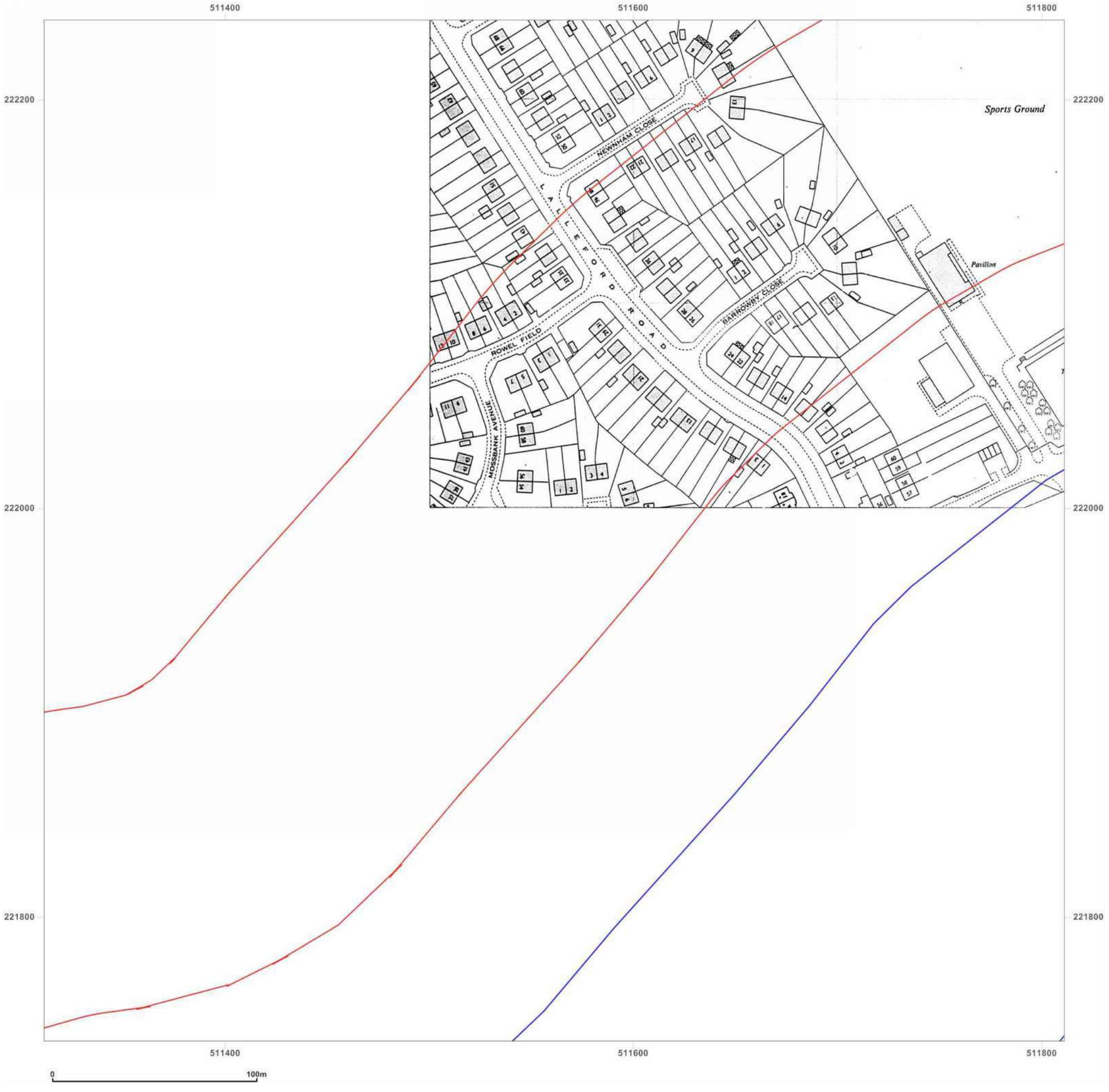

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid

Map date: **1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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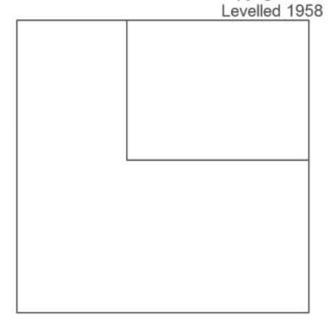
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958



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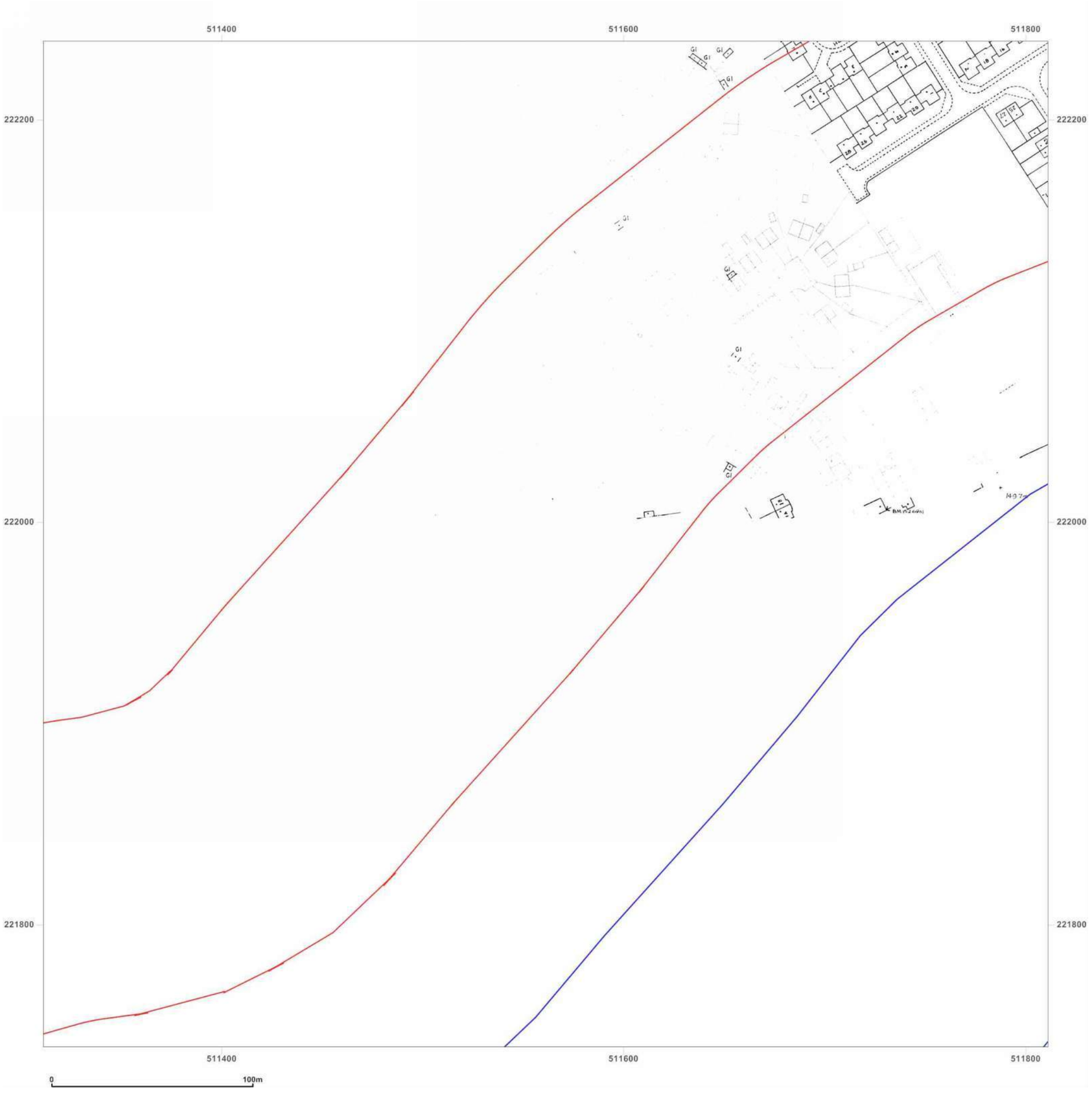

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid
Map date: **1984**
Scale: 1:1,250
Printed at: 1:2,000

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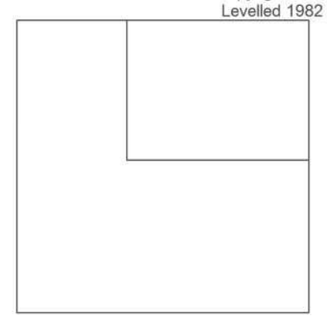
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled 1982



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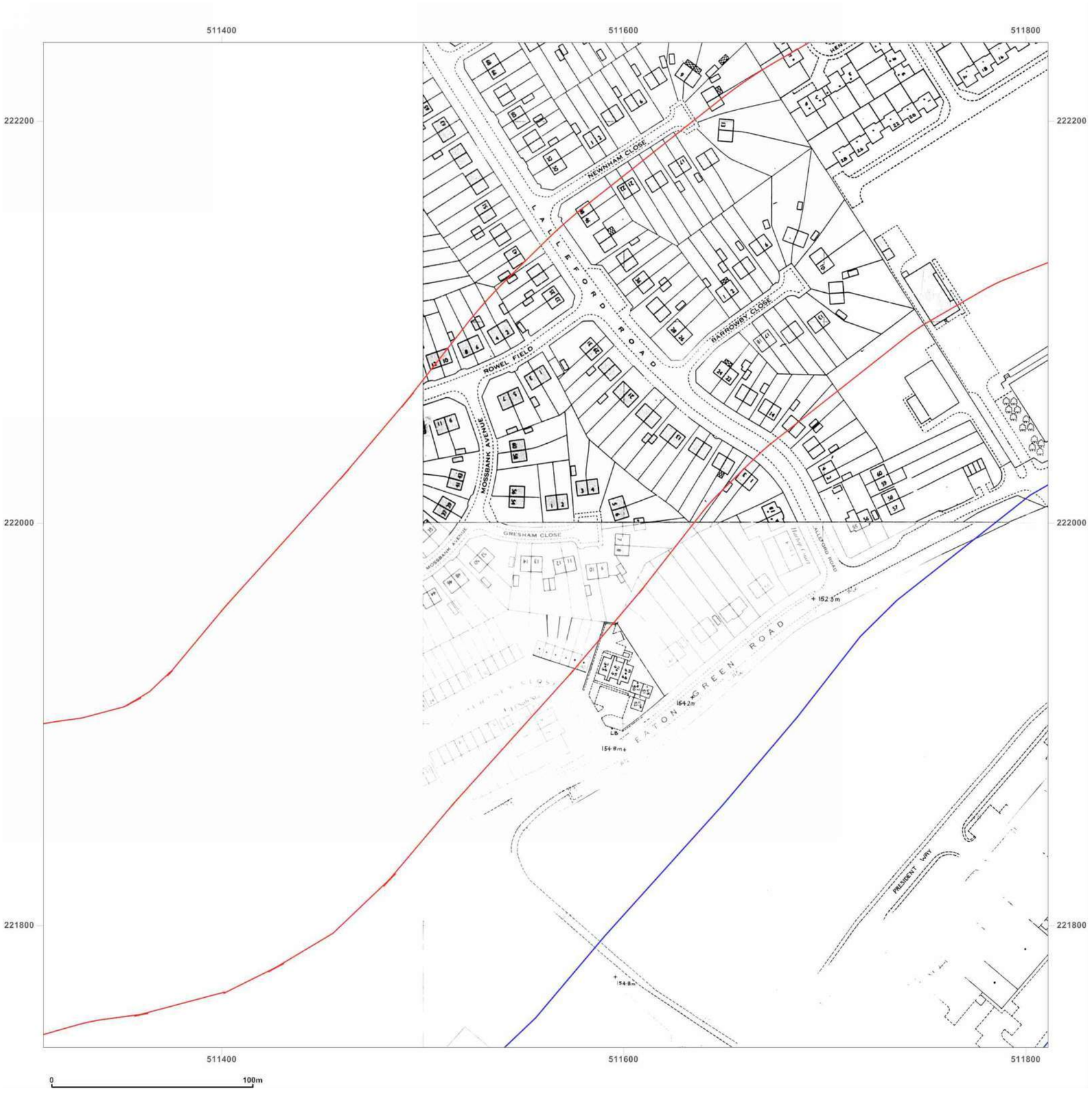

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid

Map date: **1982-1987**

Scale: 1:1,250

Printed at: 1:2,000

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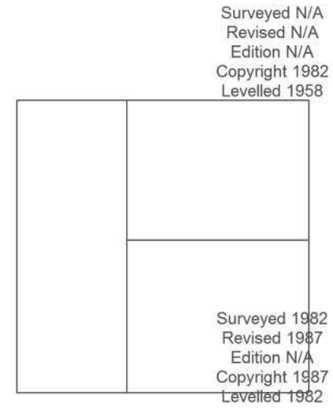

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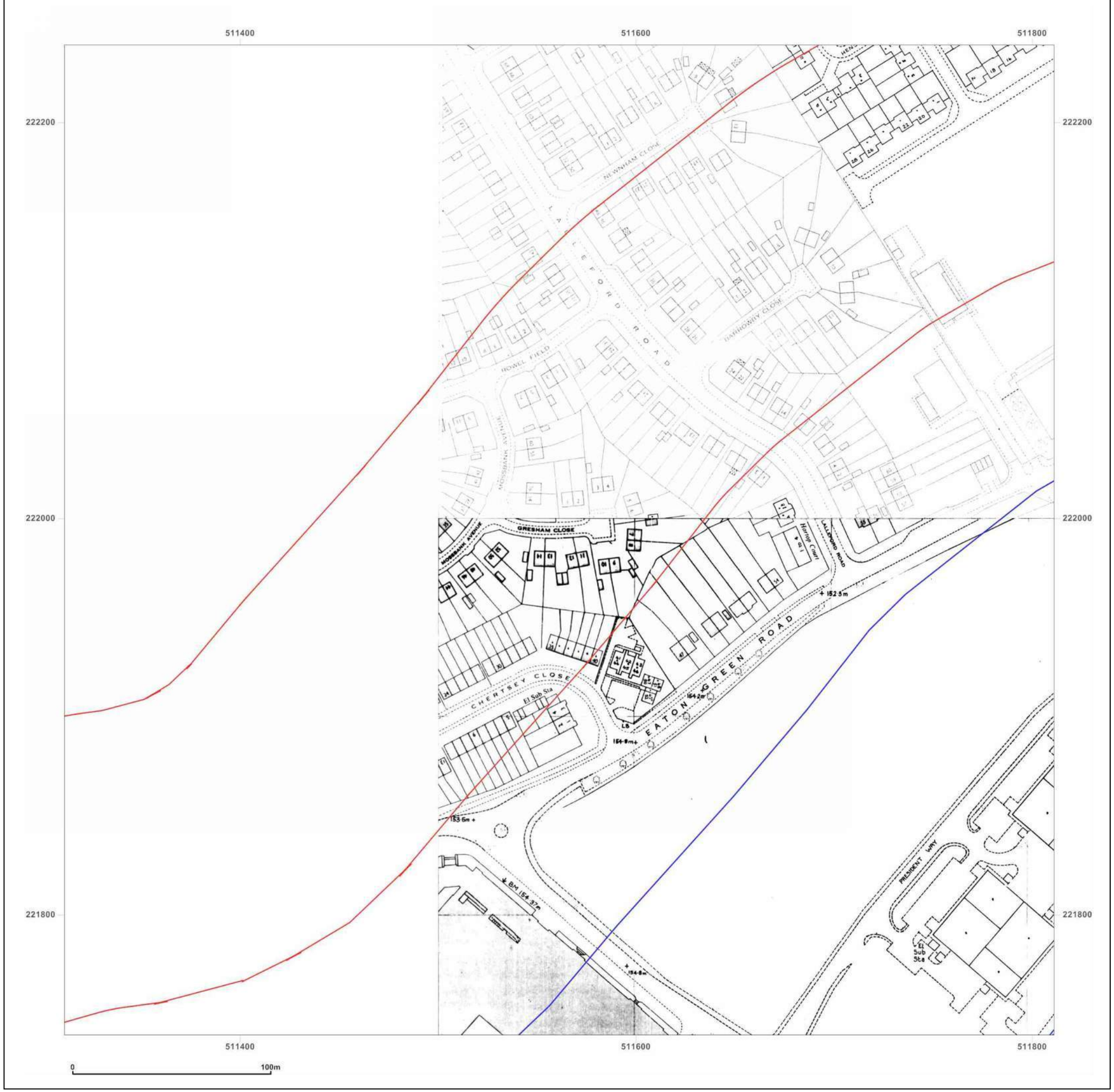

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid

Map date: **1982-1987**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1982
Levelled 1958

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid

Map date: **1985-1990**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1961
Revised 1985
Edition N/A
Copyright 1986
Levelled 1982

Surveyed 1990
Revised 1990
Edition N/A
Copyright 1990
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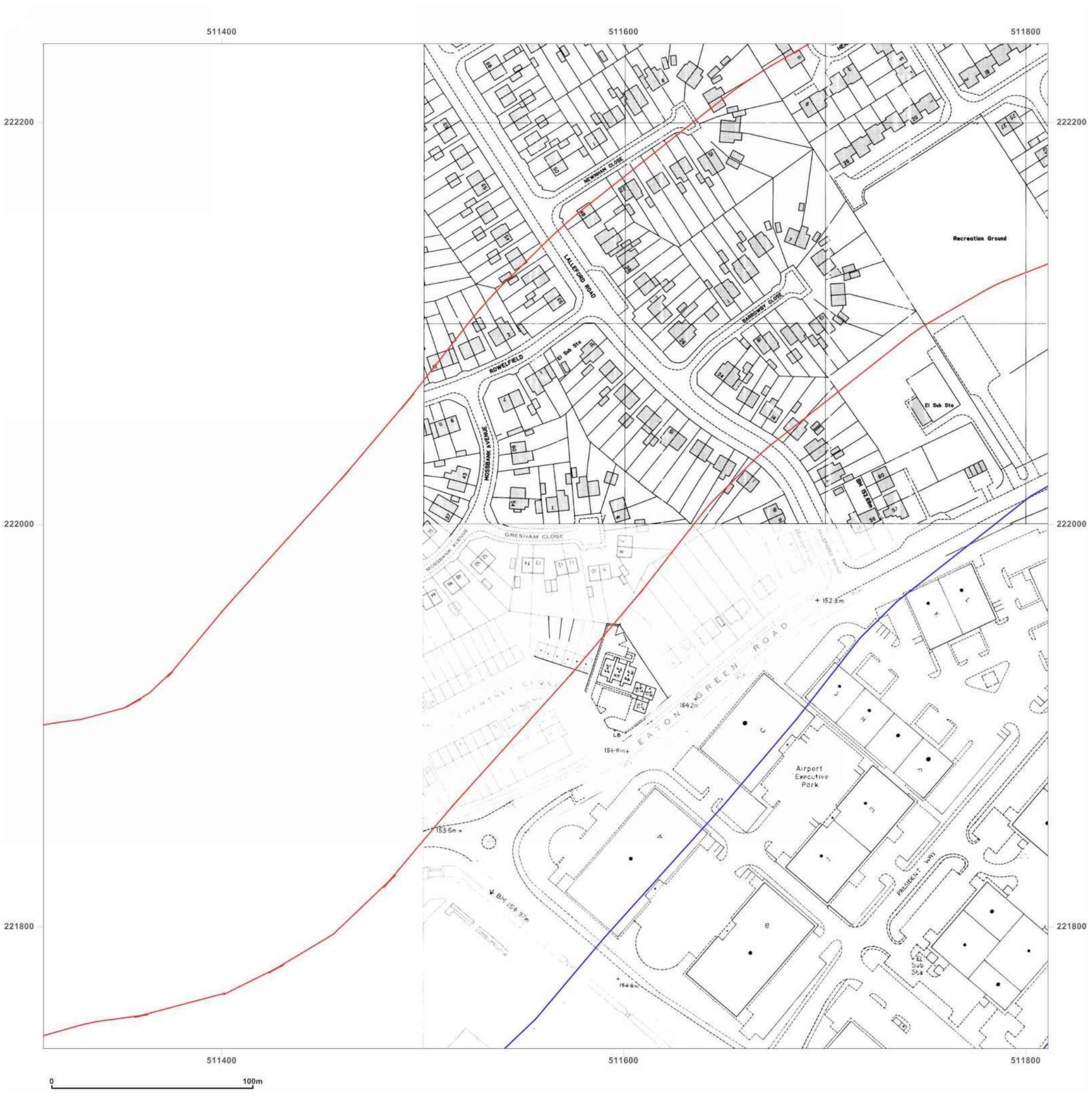

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid

Map date: **1986-1991**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed 1981
Revised 1985
Edition N/A
Copyright 1988
Levelled 1982

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1991
Levelled 1982

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

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Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid
Map date: **1993-1994**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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

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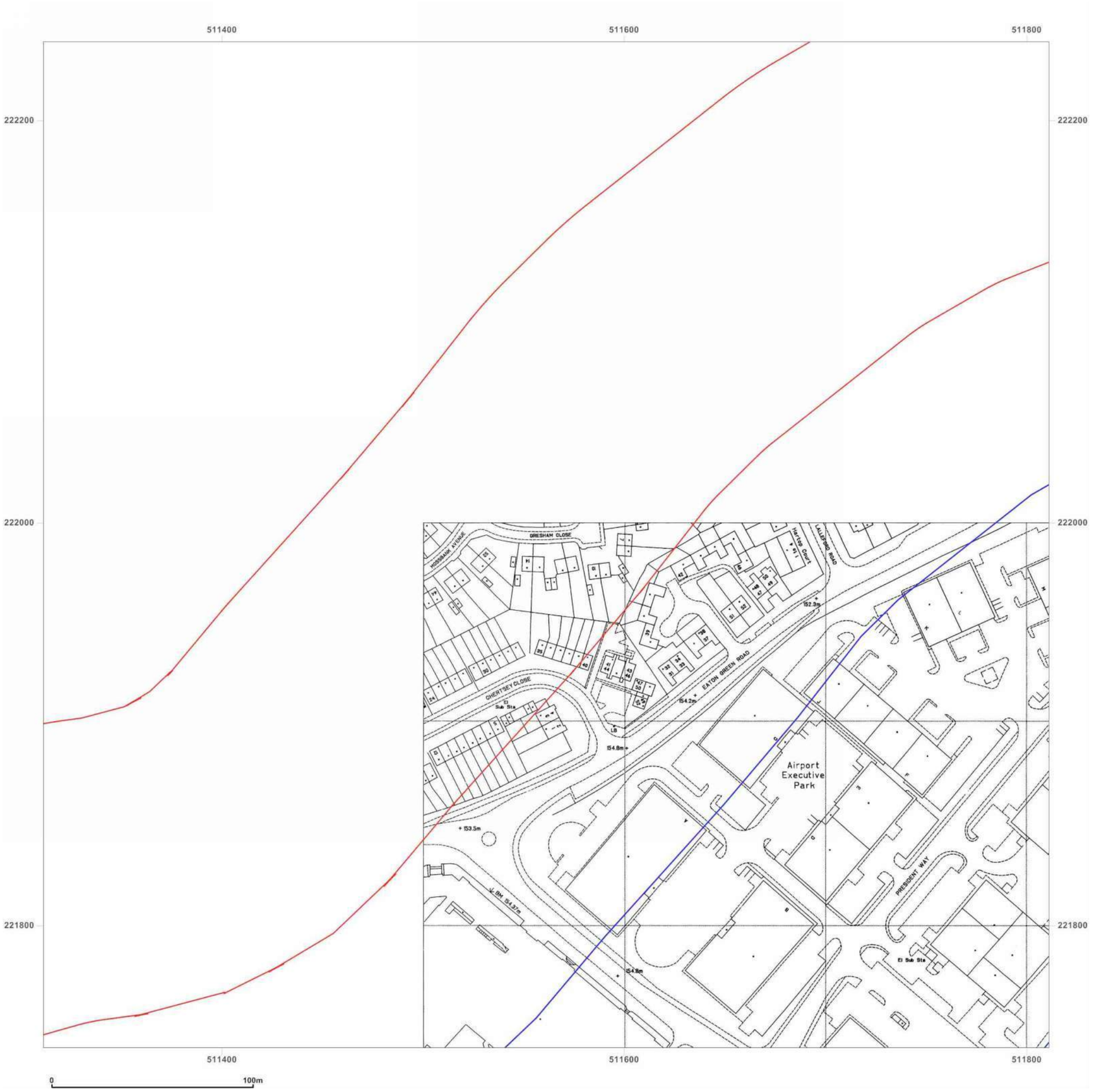

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: National Grid
Map date: **1994**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
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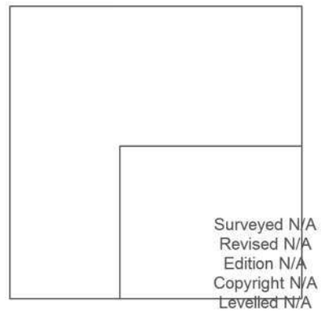

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_4
Grid Ref: 511561, 221989

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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2003

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Map legend available at:
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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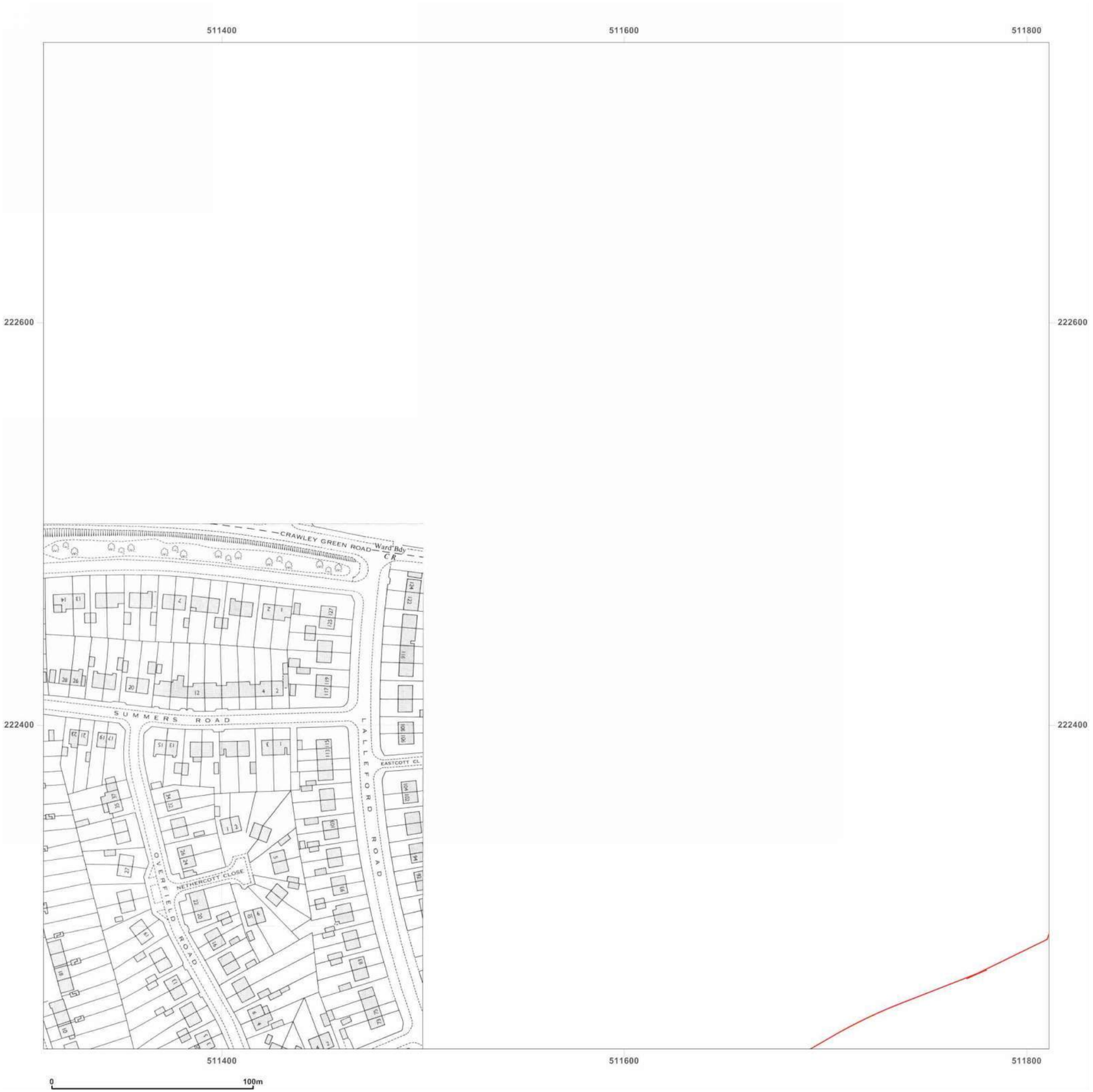
Production date: 23 November 2020

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid

Map date: **1966**

Scale: 1:1,250

Printed at: 1:2,000

N
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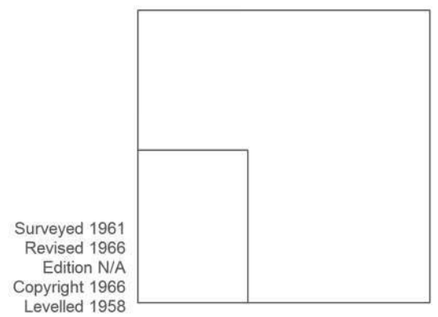

Surveyed 1961
Revised 1966
Edition N/A
Copyright 1966
Levelled 1958

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Production date: 23 November 2020

Map legend available at:
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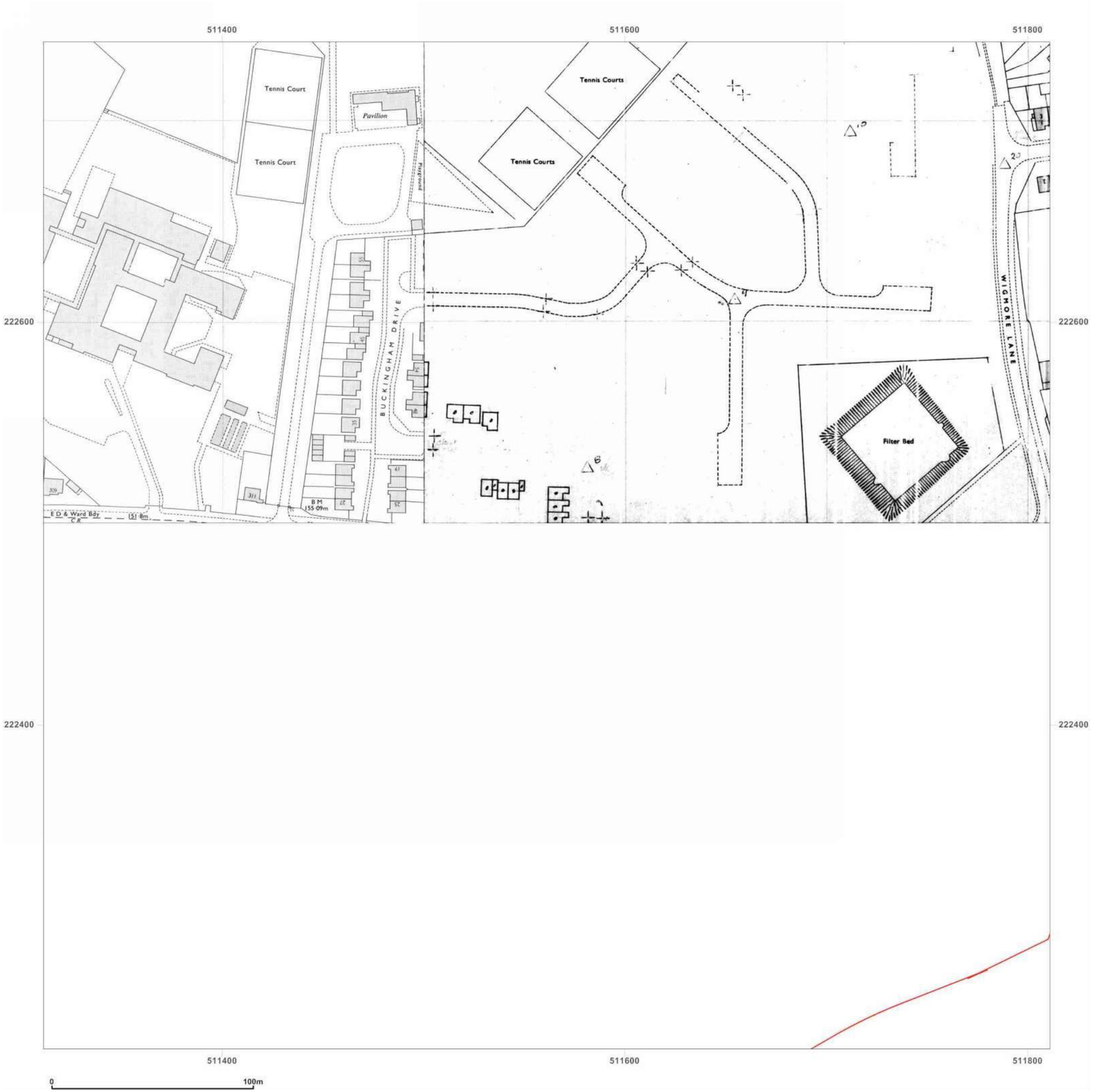


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

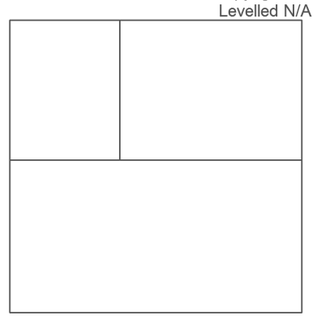
Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid
Map date: **1974-1976**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1975
Edition N/A
Copyright 1976
Levelled 1958

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



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Production date: 23 November 2020

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid

Map date: **1973-1978**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1961
Revised 1973
Edition N/A
Copyright 1973
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid

Map date: **1981**

Scale: 1:1,250

Printed at: 1:2,000

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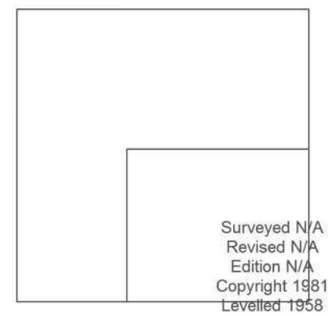

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid

Map date: **1977-1982**

Scale: 1:1,250

Printed at: 1:2,000

N
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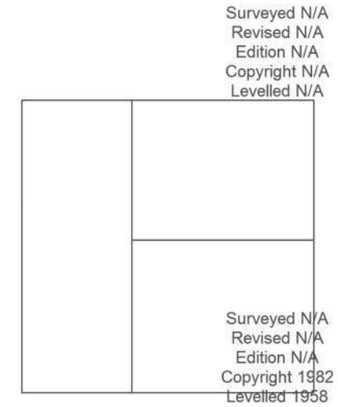

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Map legend available at:
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid

Map date: **1979-1982**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed 1961
Revised 1978
Edition N/A
Copyright 1979
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1982
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled 1982

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid
Map date: **1986**
Scale: 1:1,250
Printed at: 1:2,000

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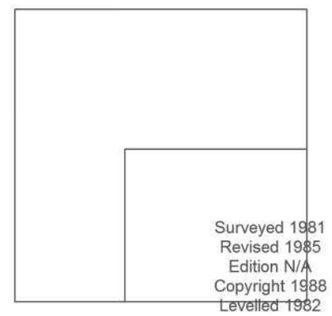

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid

Map date: **1985-1990**

Scale: 1:1,250

Printed at: 1:2,000

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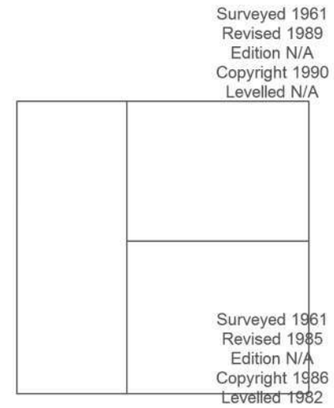

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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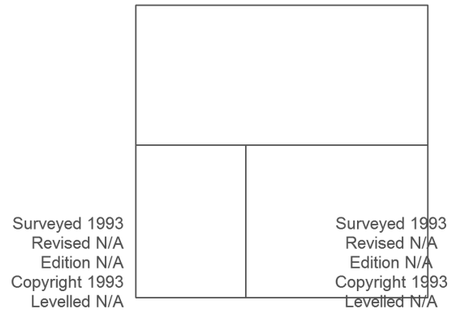

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_2_5
Grid Ref: 511561, 222489

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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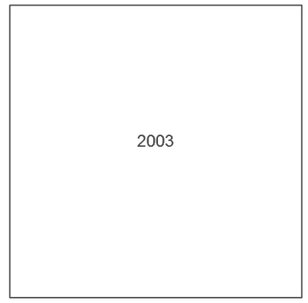

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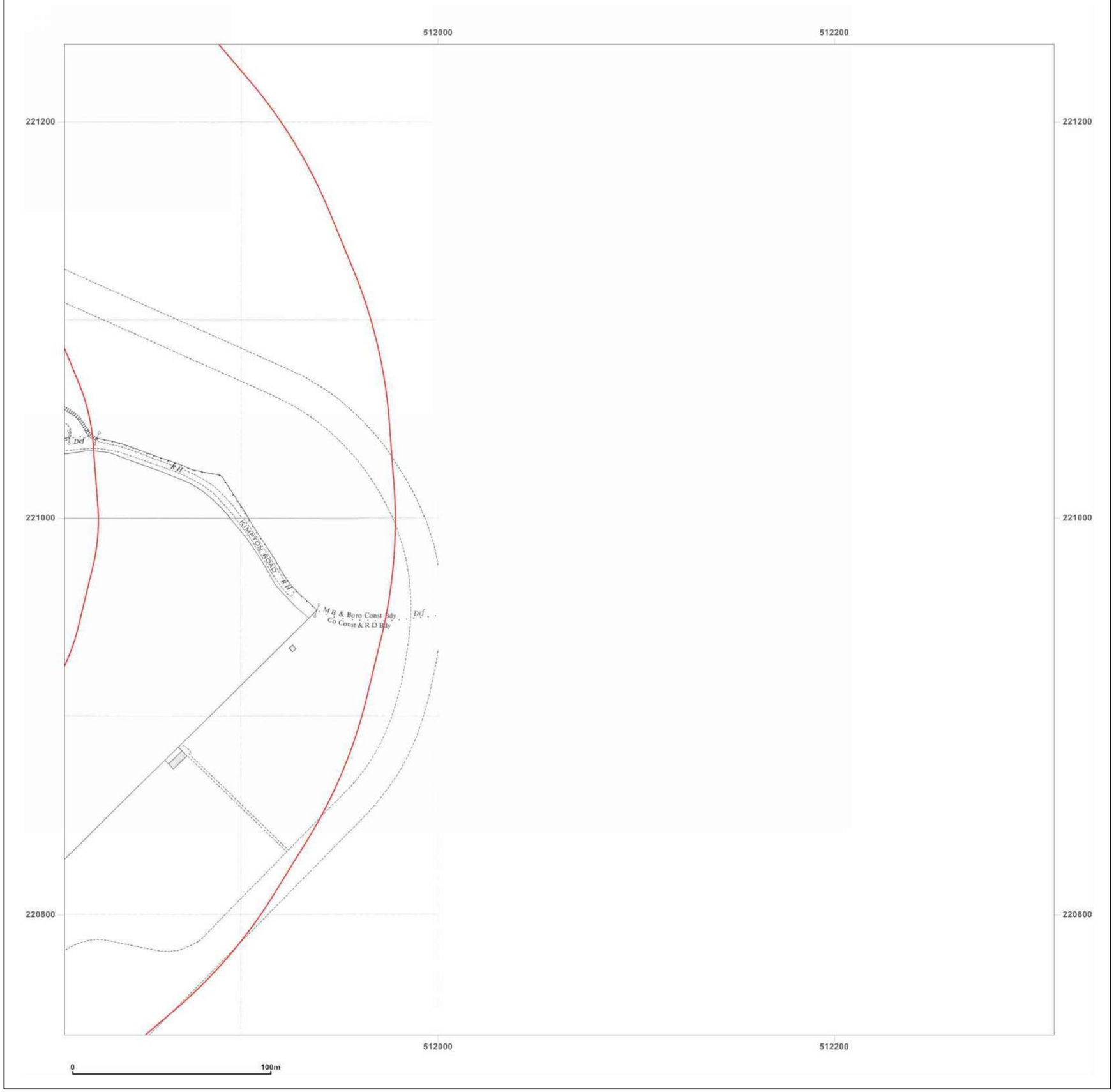

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_2
Grid Ref: 512061, 220989

Map Name: National Grid

Map date: **1962-1963**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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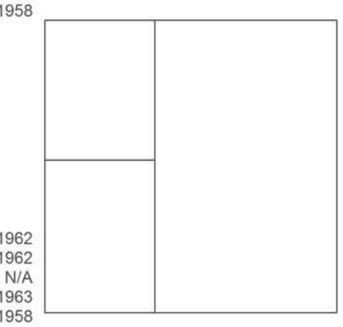
Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1958



Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1958

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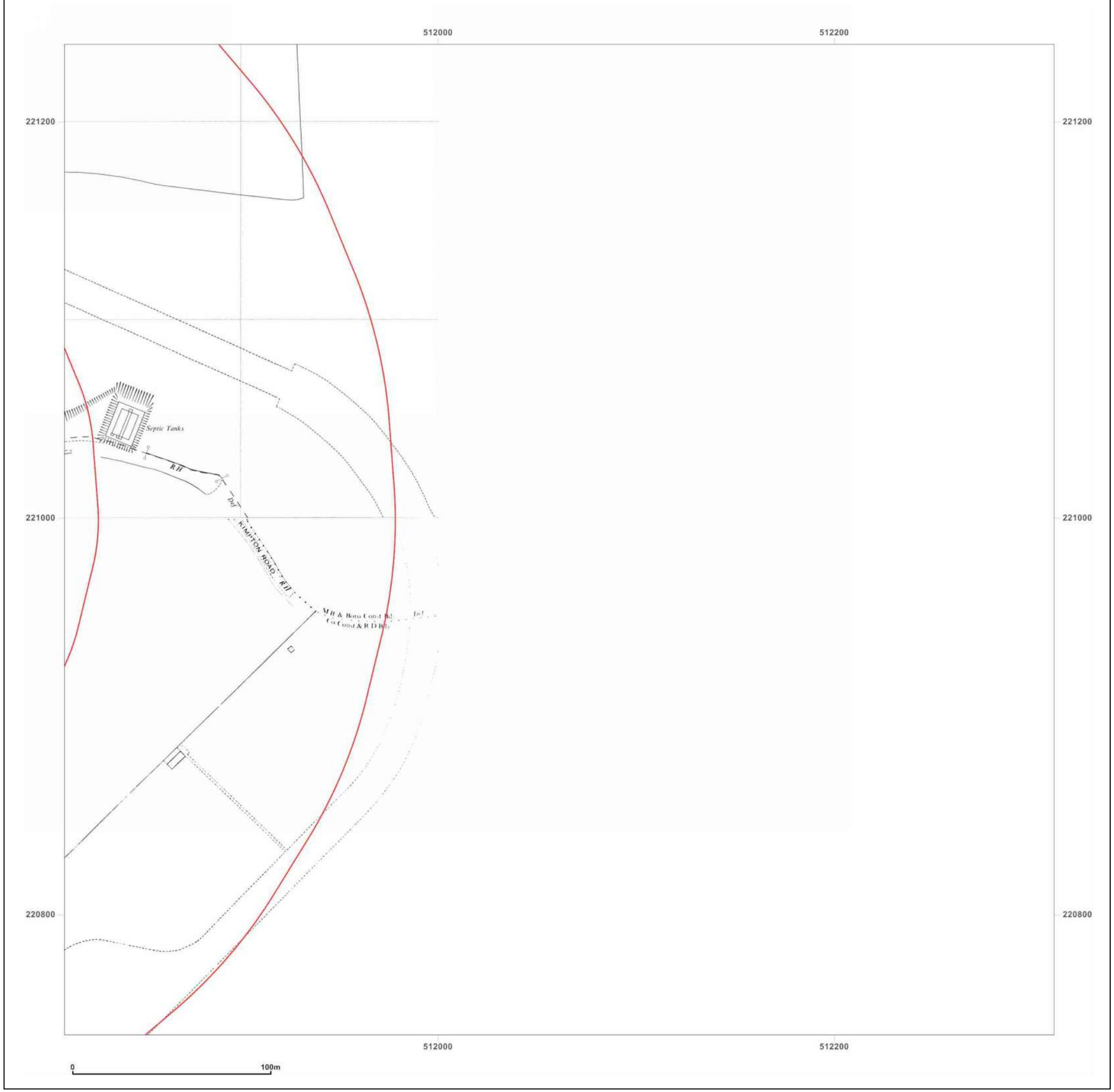

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_2
Grid Ref: 512061, 220989

Map Name: National Grid

Map date: **1963-1968**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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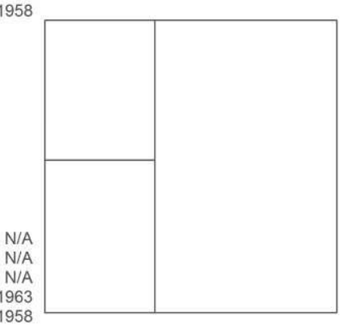
Surveyed 1962
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1963
Levelled 1958



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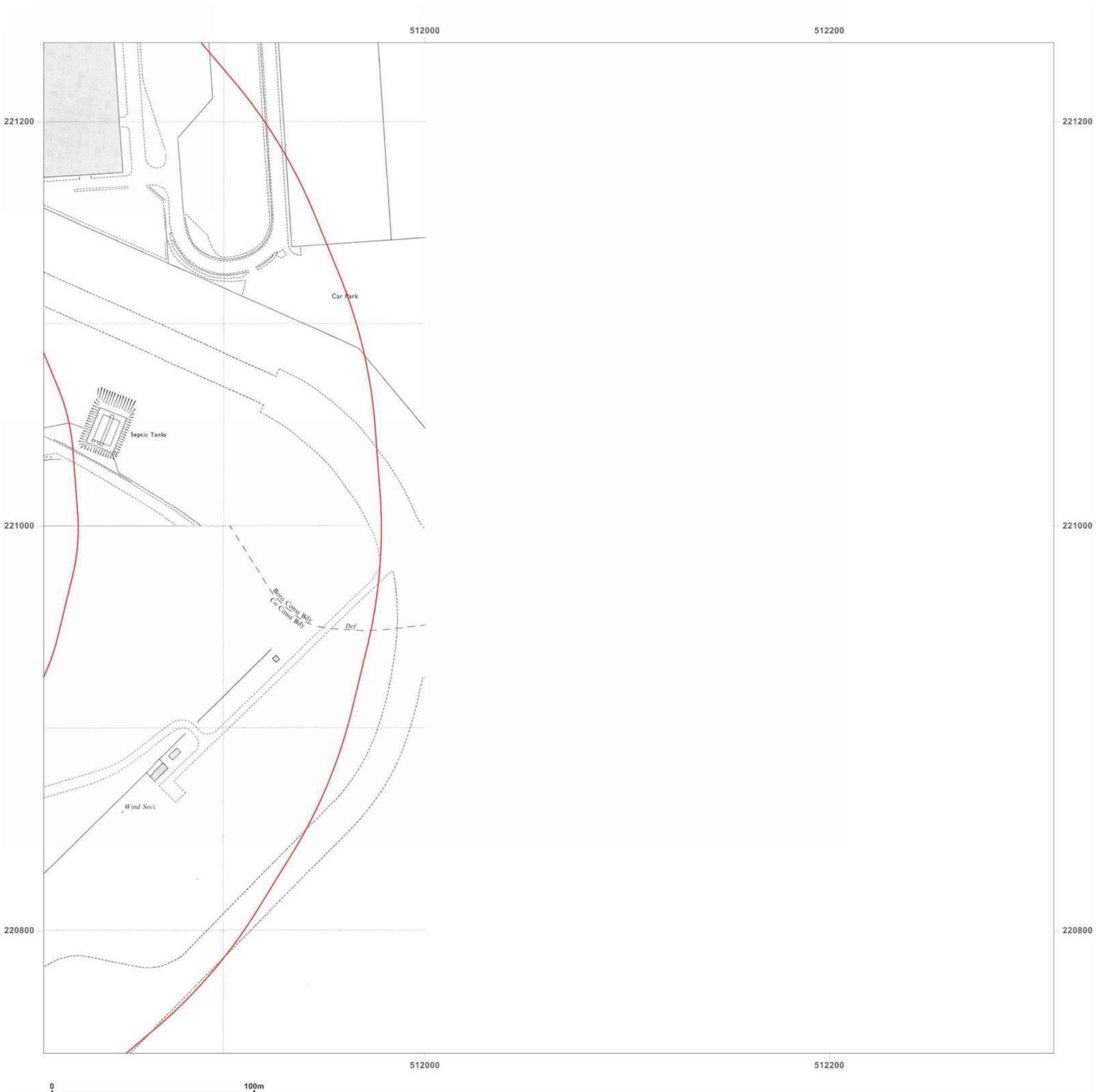

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_2
Grid Ref: 512061, 220989

Map Name: National Grid

Map date: **1968-1973**

Scale: 1:1,250

Printed at: 1:2,000

N
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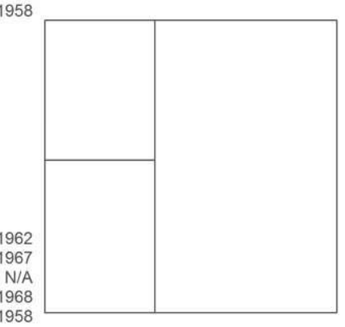
Surveyed 1962
Revised 1973
Edition N/A
Copyright 1973
Levelled 1958



Surveyed 1962
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

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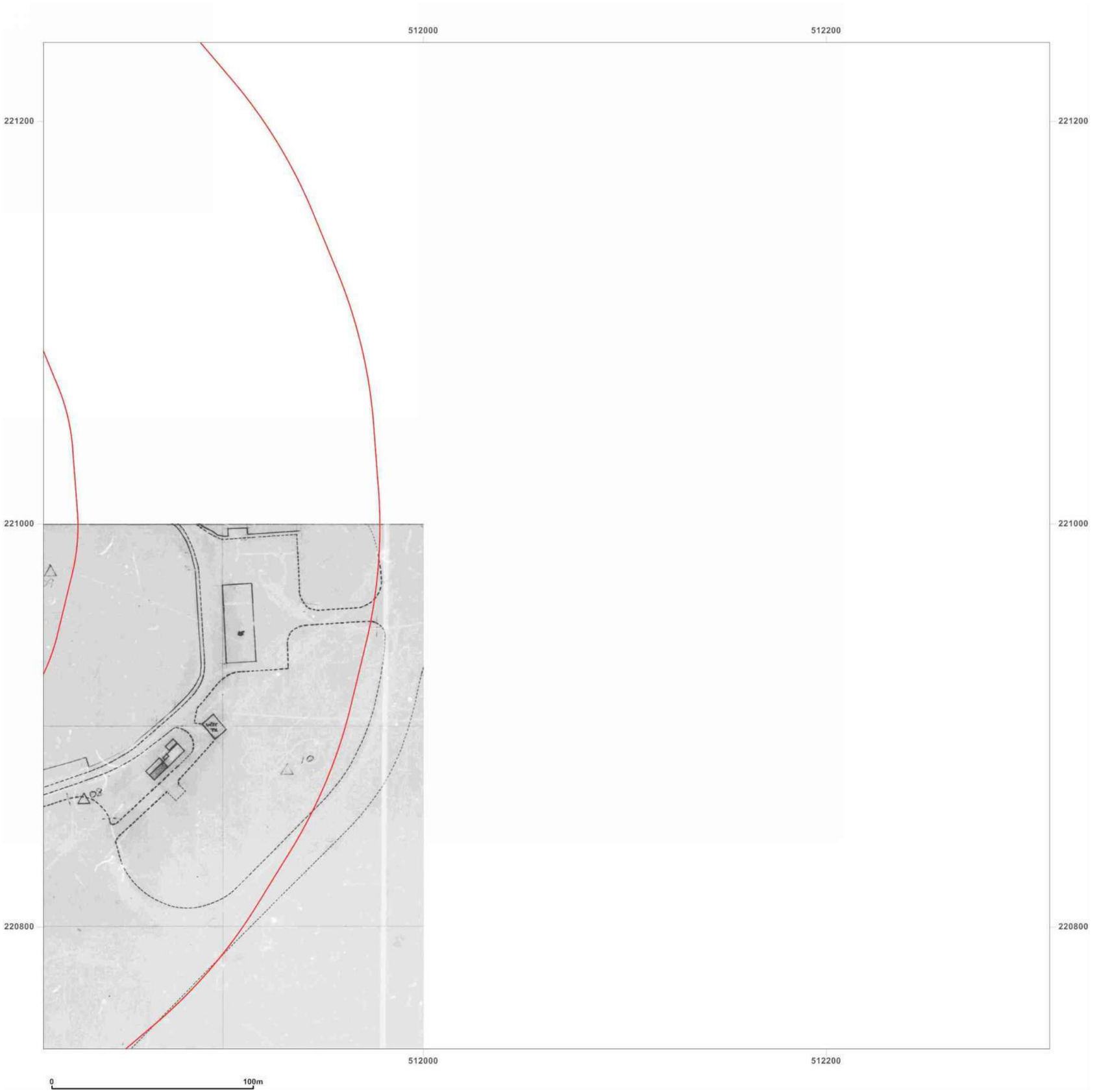

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_2
Grid Ref: 512061, 220989

Map Name: National Grid
Map date: **1973**
Scale: 1:1,250
Printed at: 1:2,000

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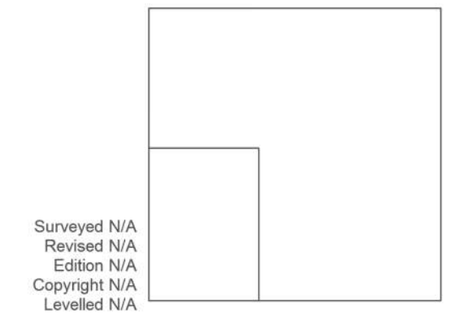

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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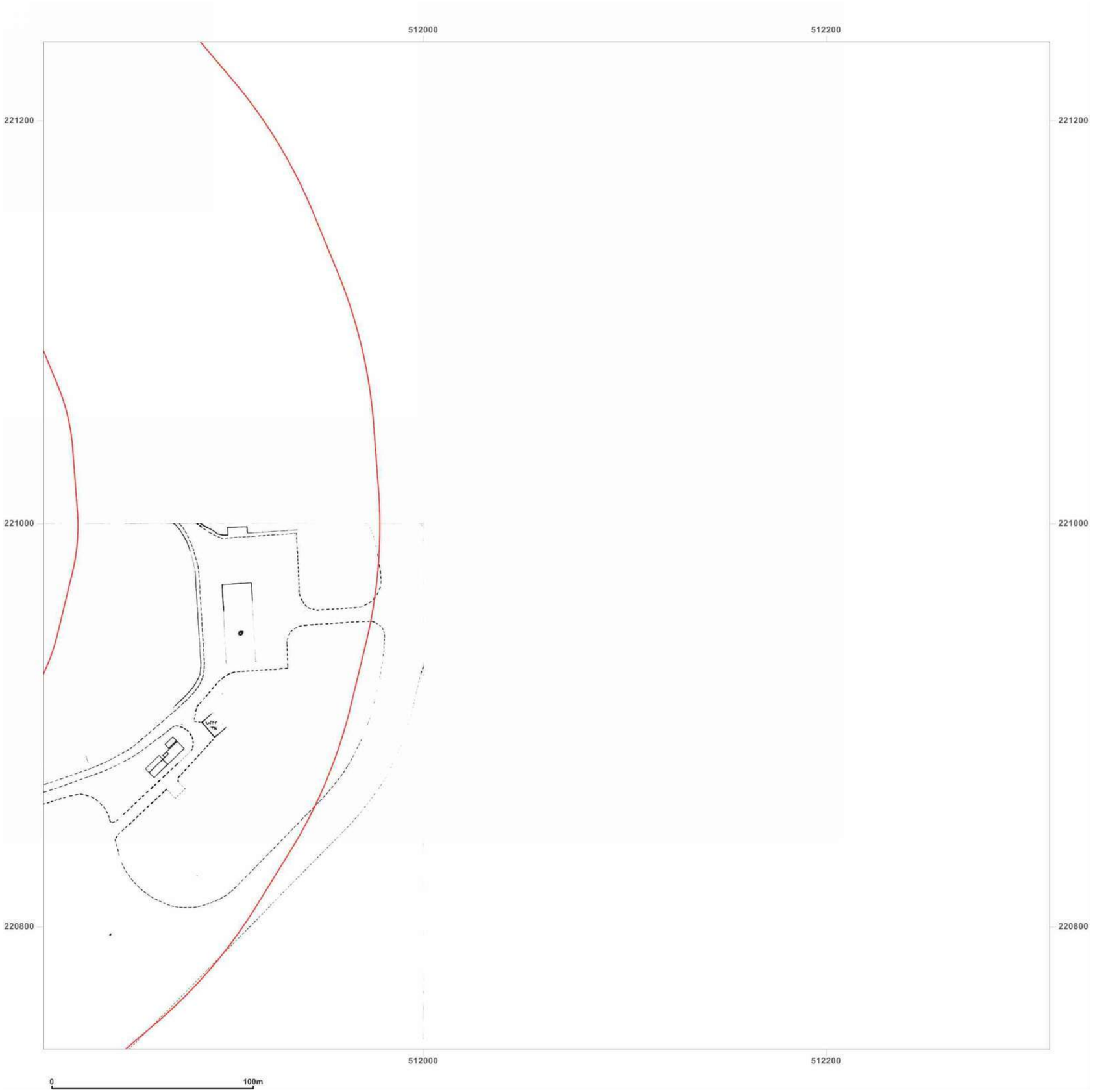

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_2
Grid Ref: 512061, 220989

Map Name: National Grid

Map date: **1975**

Scale: 1:1,250

Printed at: 1:2,000

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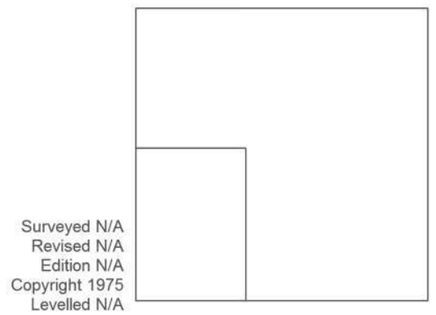

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Production date: 23 November 2020

Map legend available at:
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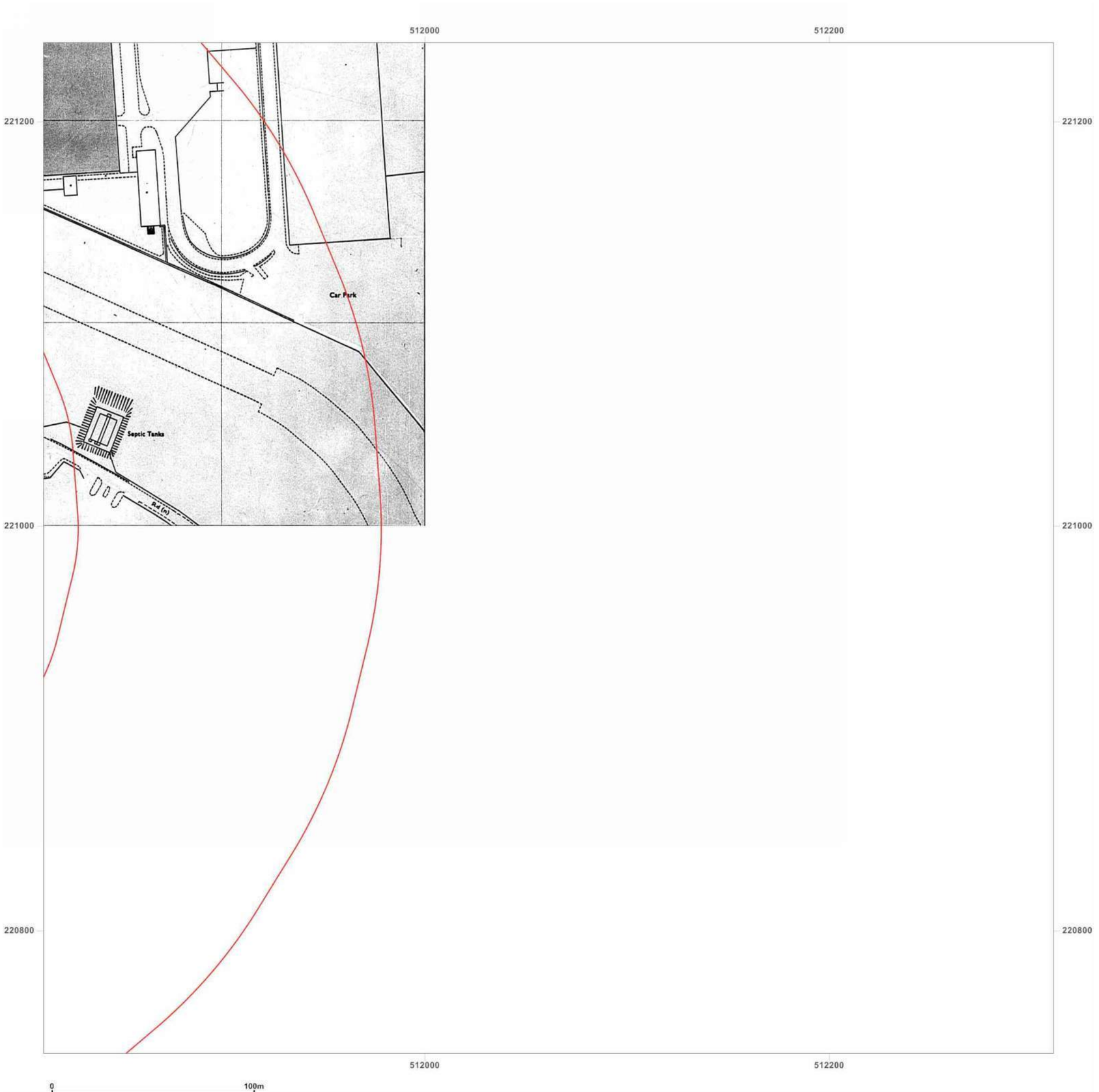

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_2
Grid Ref: 512061, 220989

Map Name: National Grid

Map date: **1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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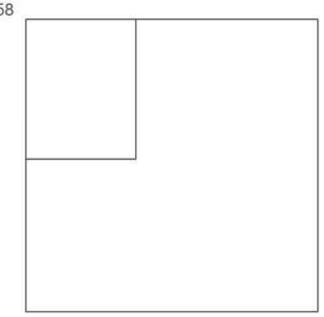
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958



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Production date: 23 November 2020

Map legend available at:
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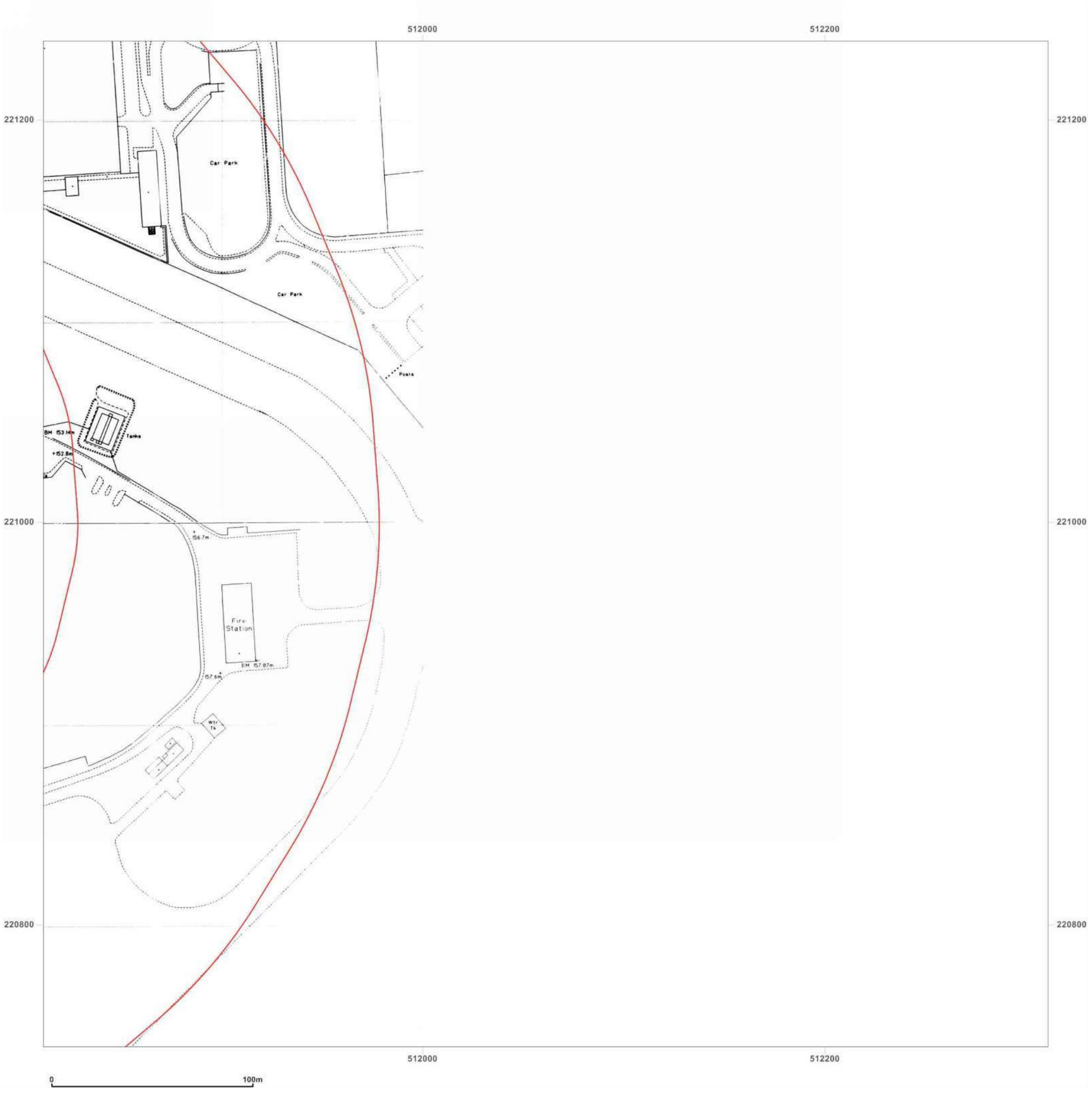

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_2
Grid Ref: 512061, 220989

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

N
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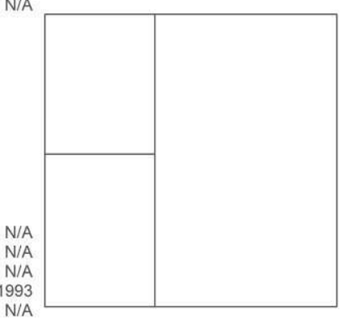
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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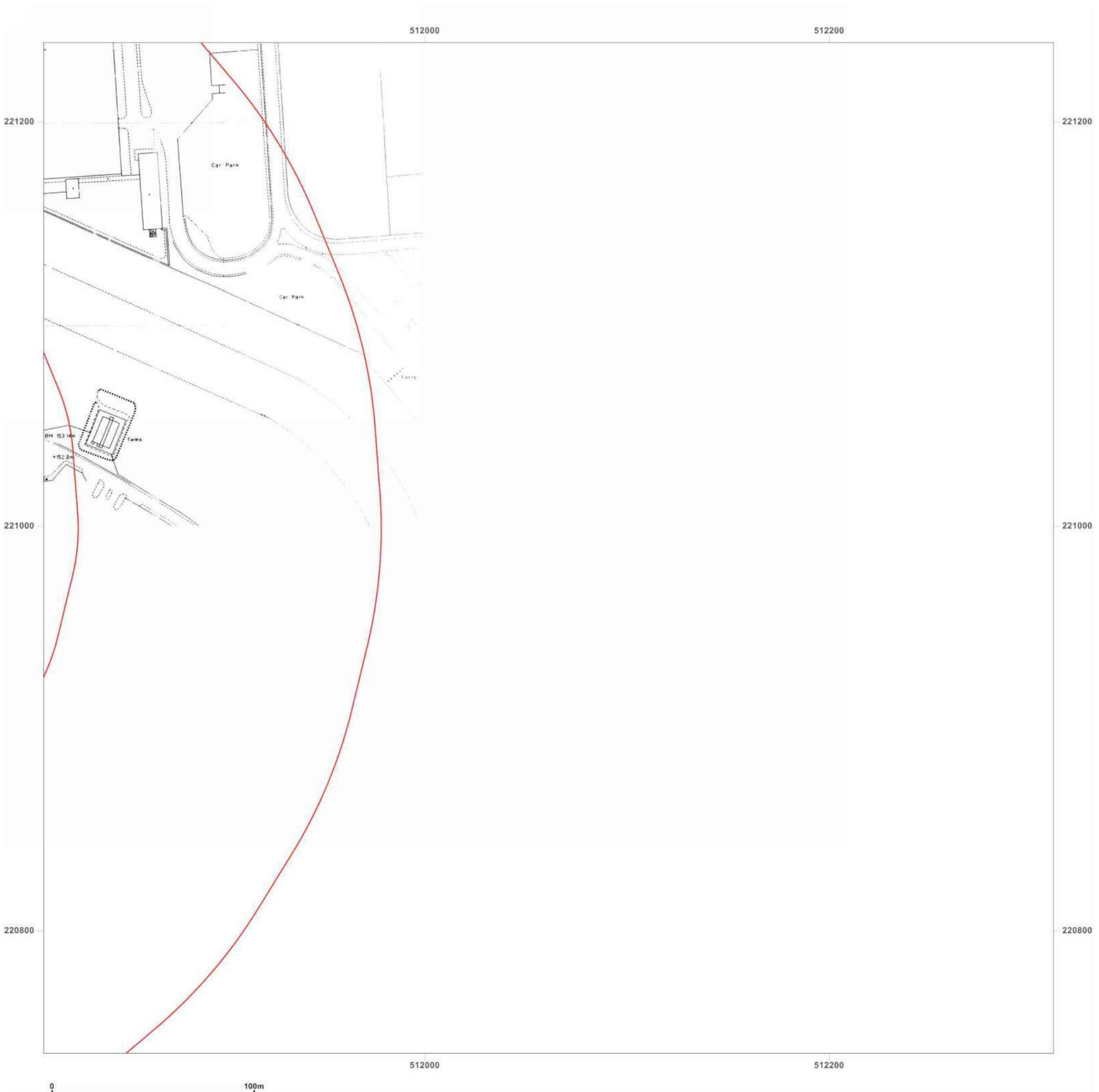
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_2
Grid Ref: 512061, 220989

Map Name: National Grid

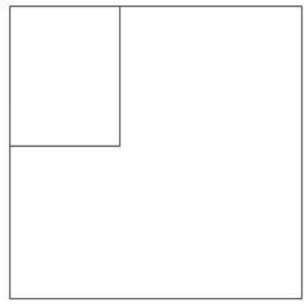
Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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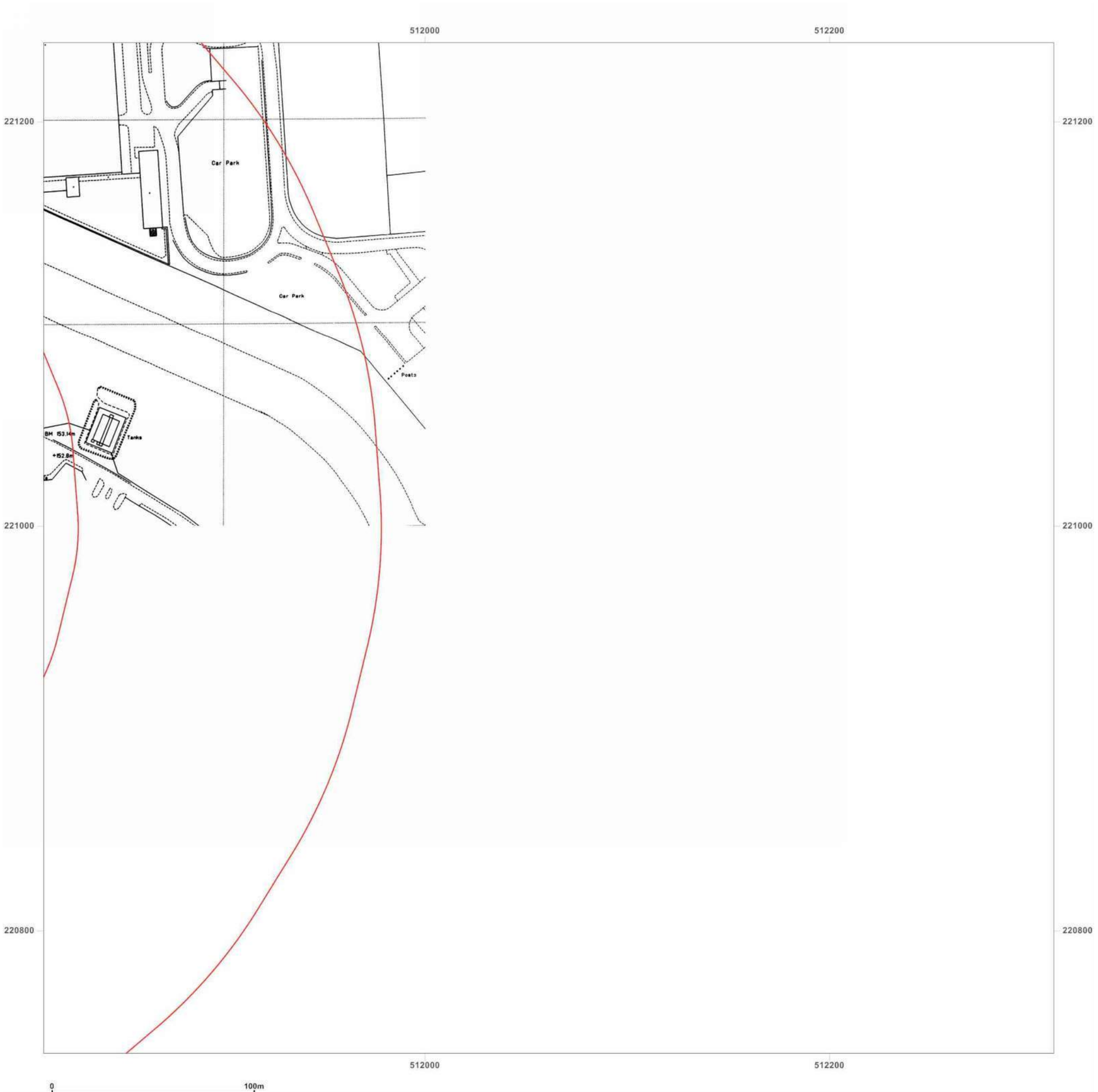

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_2
Grid Ref: 512061, 220989

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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W E
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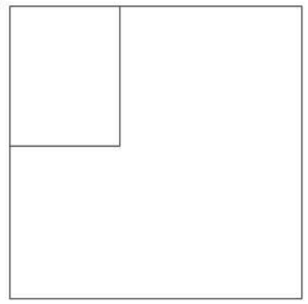
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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Groundsure INSIGHTS

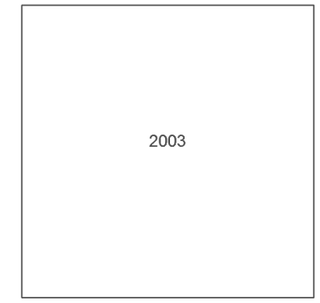
Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_2
Grid Ref: 512061, 220989

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S



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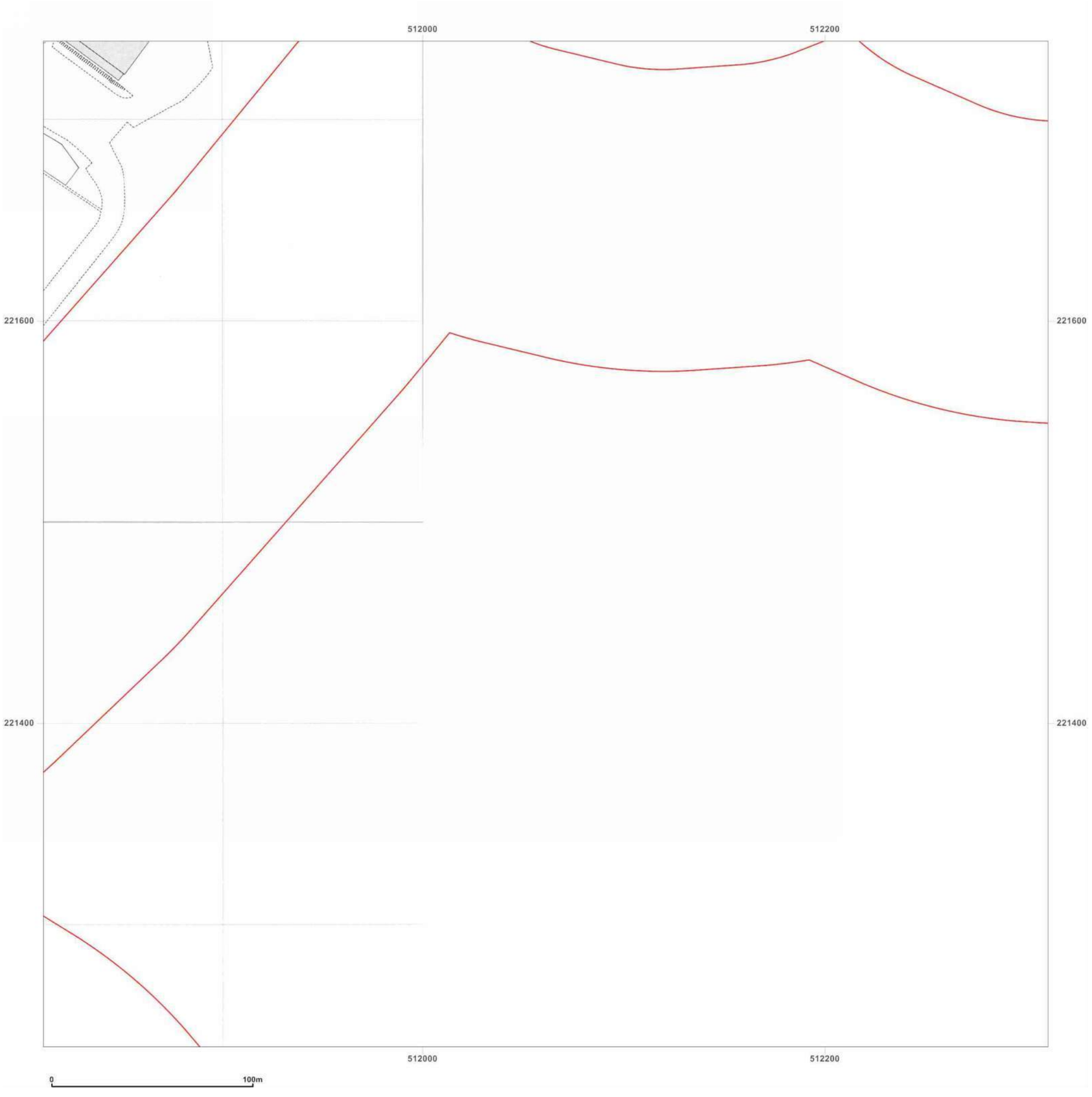


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid

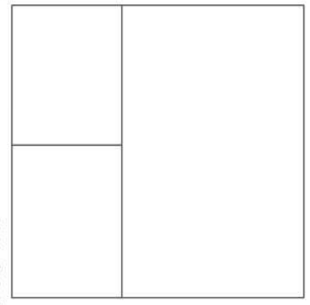
Map date: **1962-1963**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958



Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1958

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Production date: 23 November 2020

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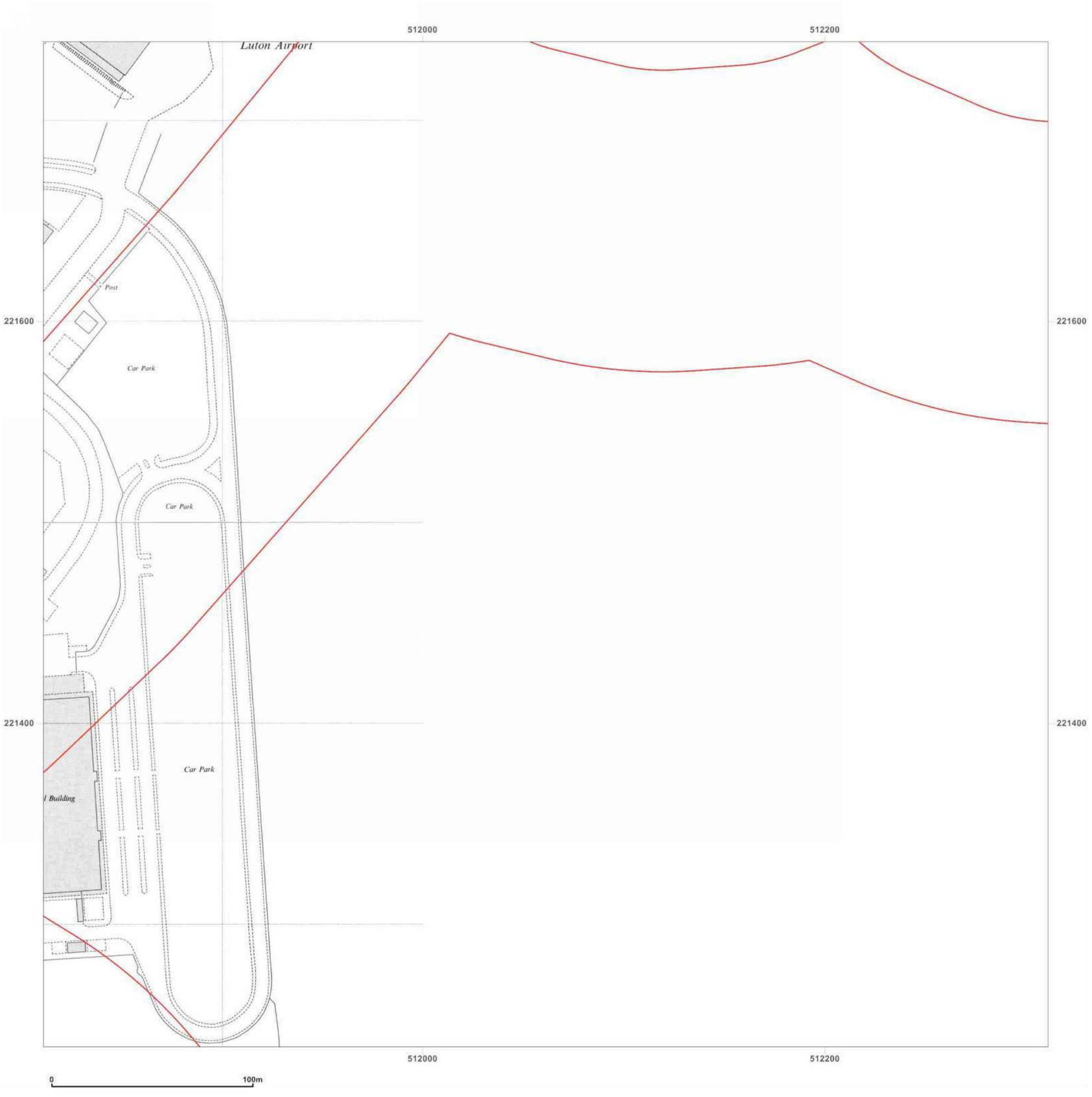


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid

Map date: **1967-1968**

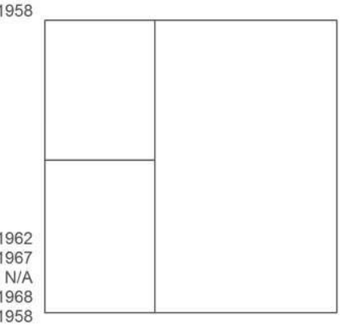
Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958

Surveyed 1962
Revised 1967
Edition N/A
Copyright 1968
Levelled 1958



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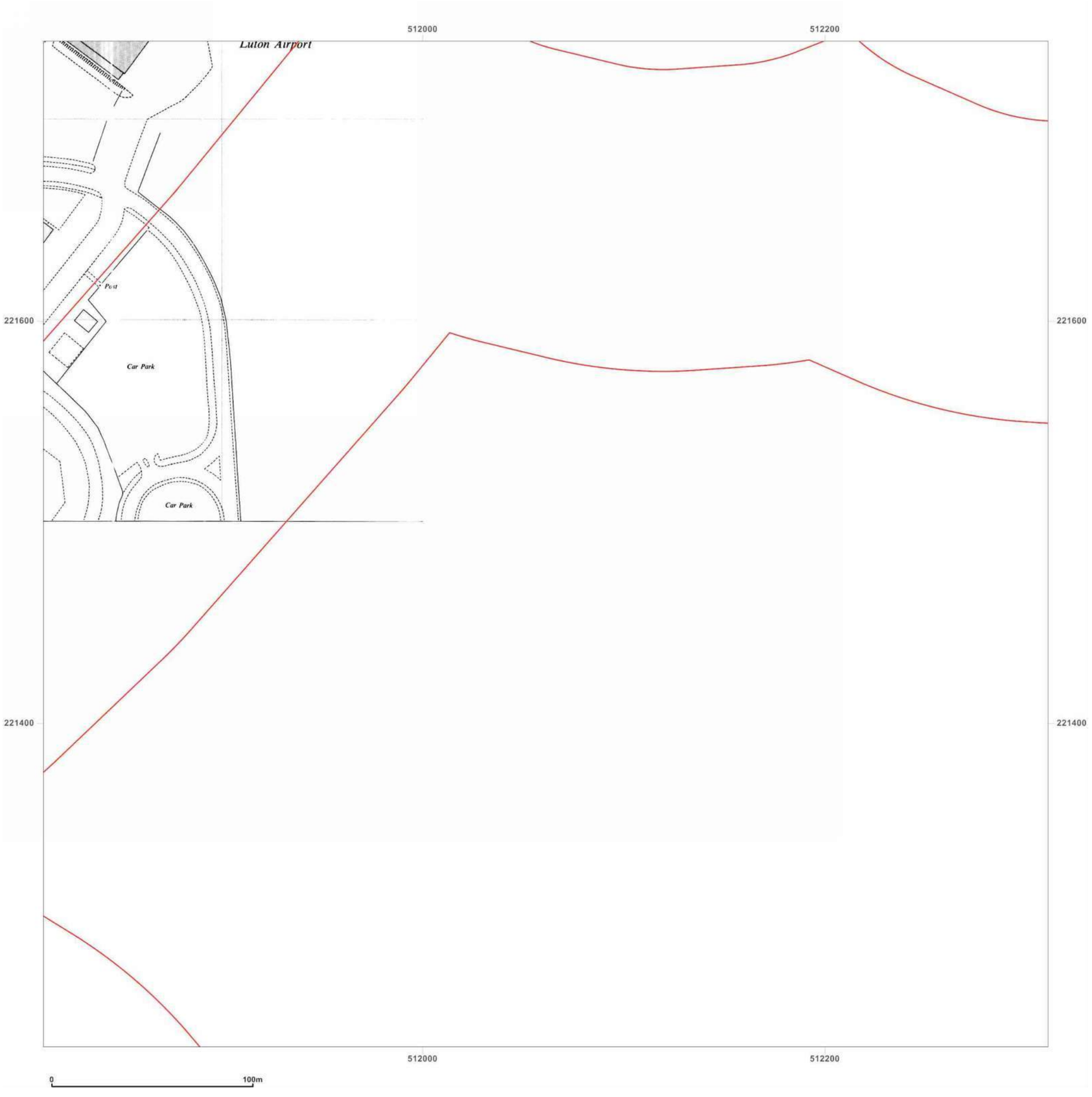


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid

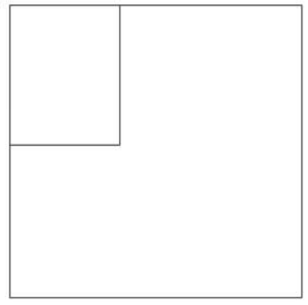
Map date: **1968**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1968
Levelled N/A



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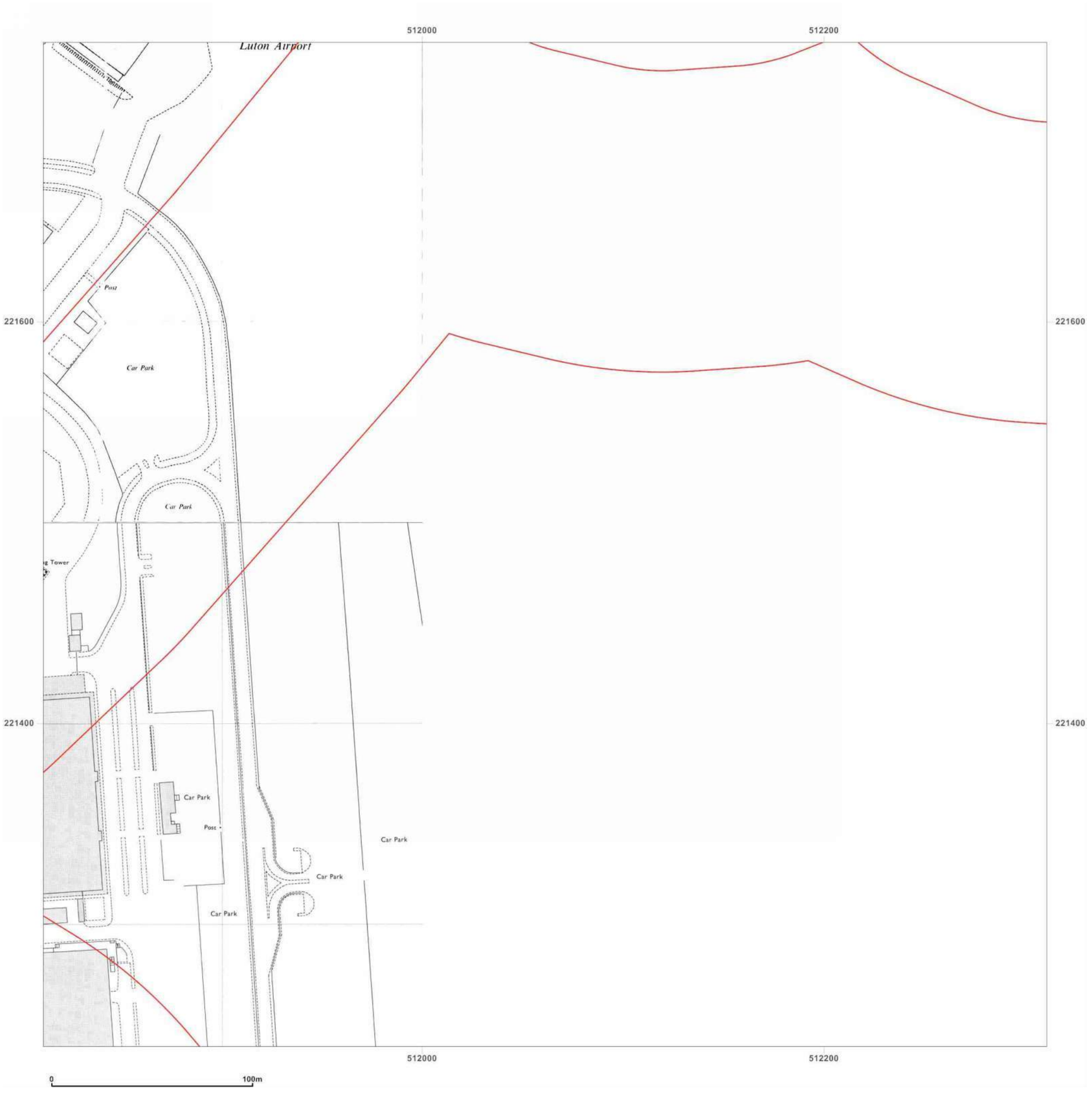


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid

Map date: **1968-1973**

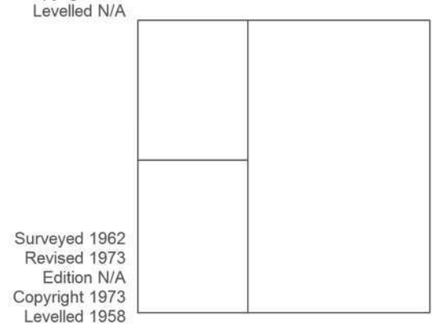
Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

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

Surveyed 1962
Revised 1973
Edition N/A
Copyright 1973
Levelled 1958



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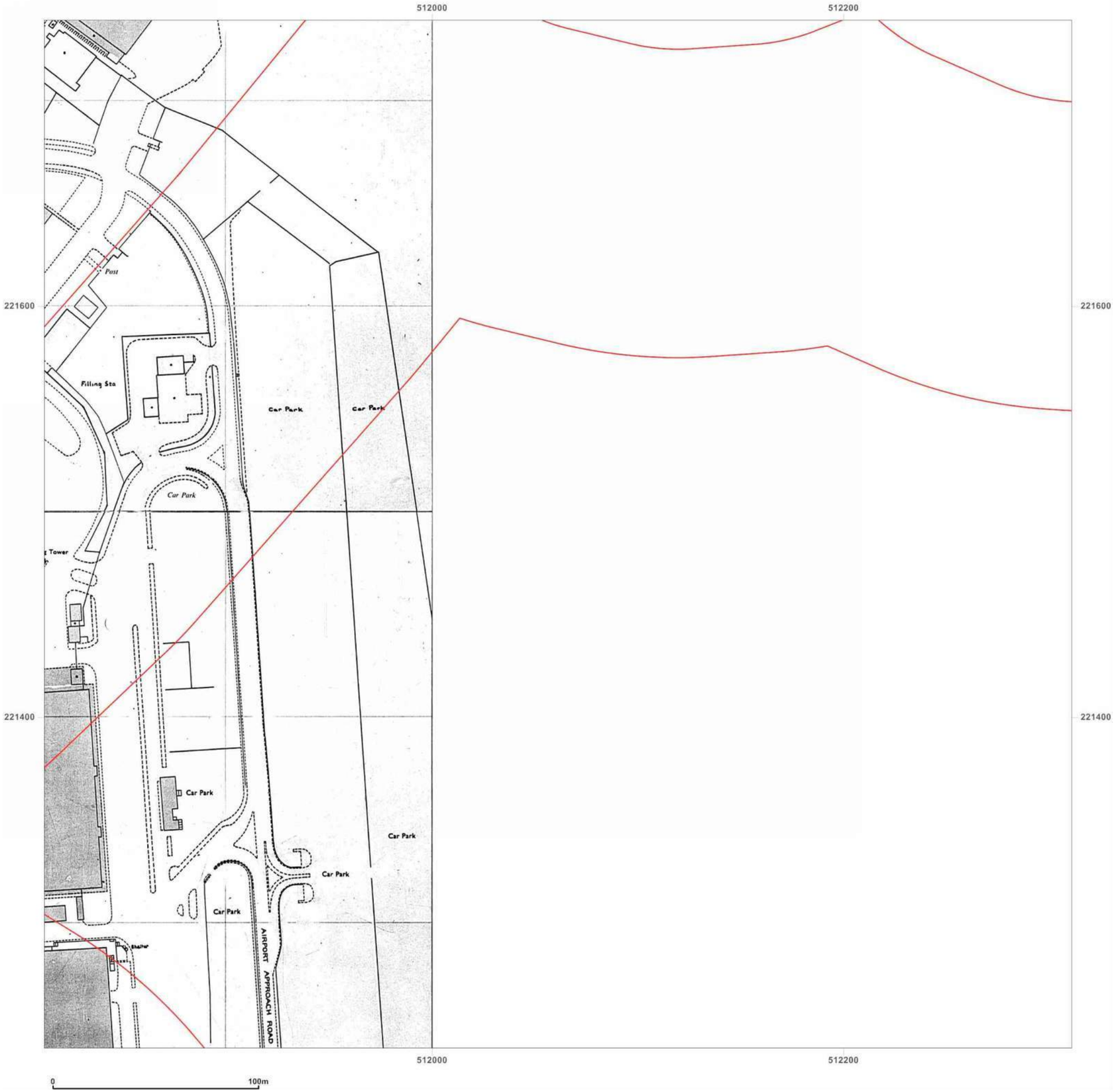

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid

Map date: **1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958

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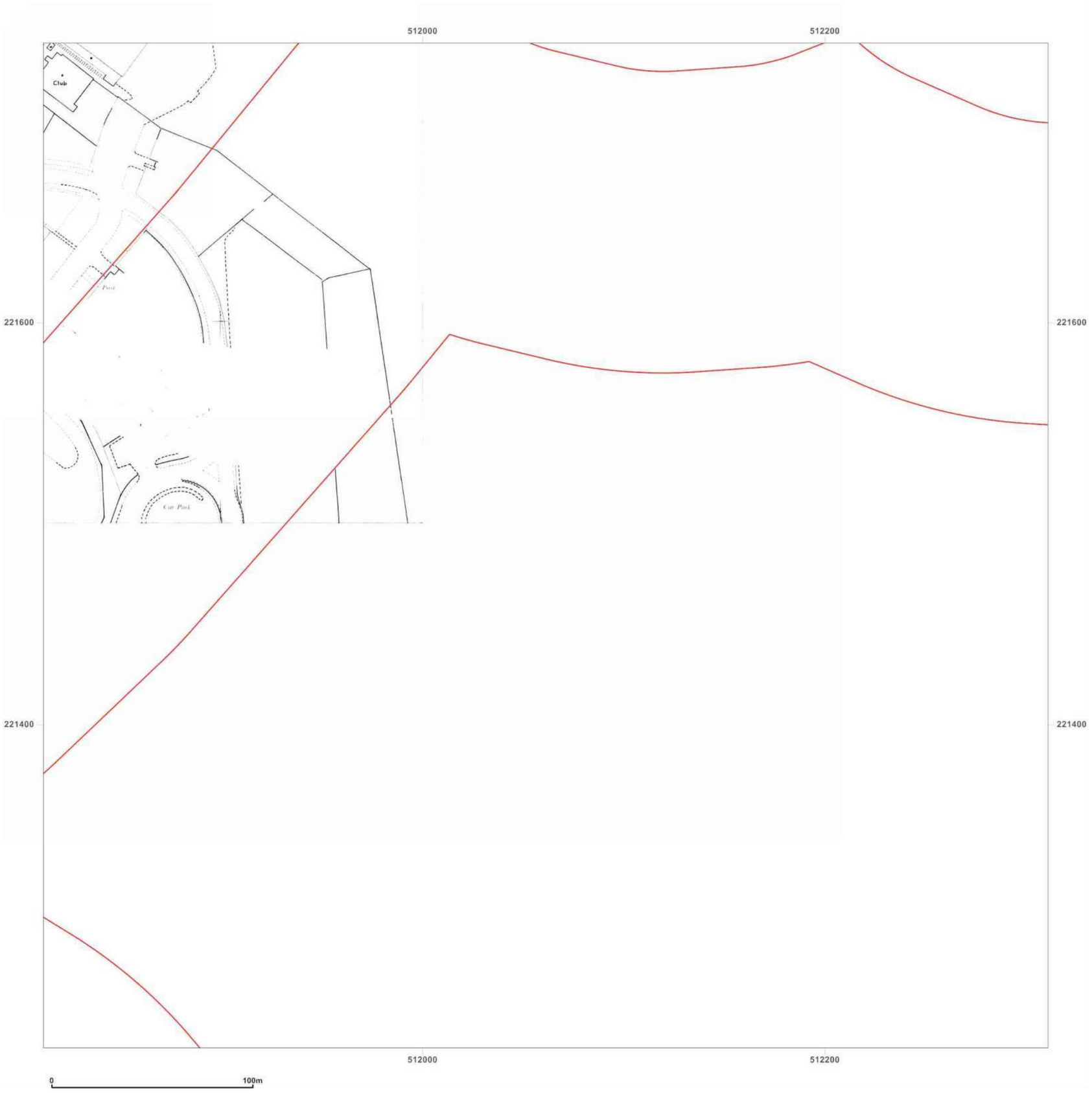


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid

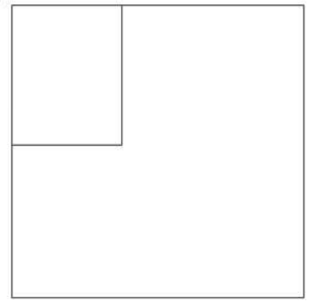
Map date: **1987**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982



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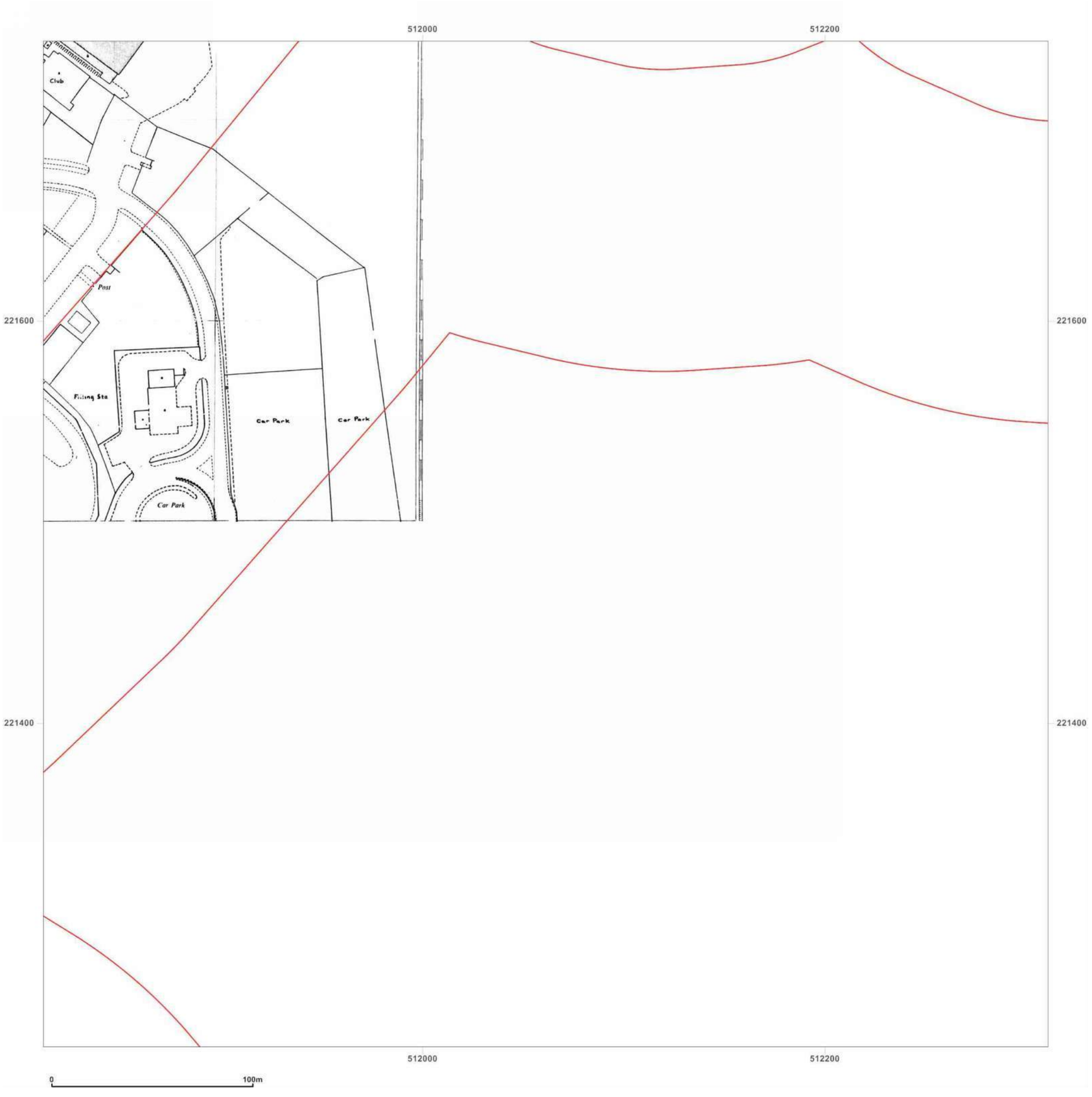


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid

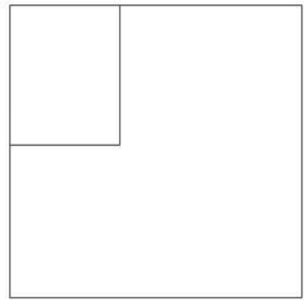
Map date: **1987**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982



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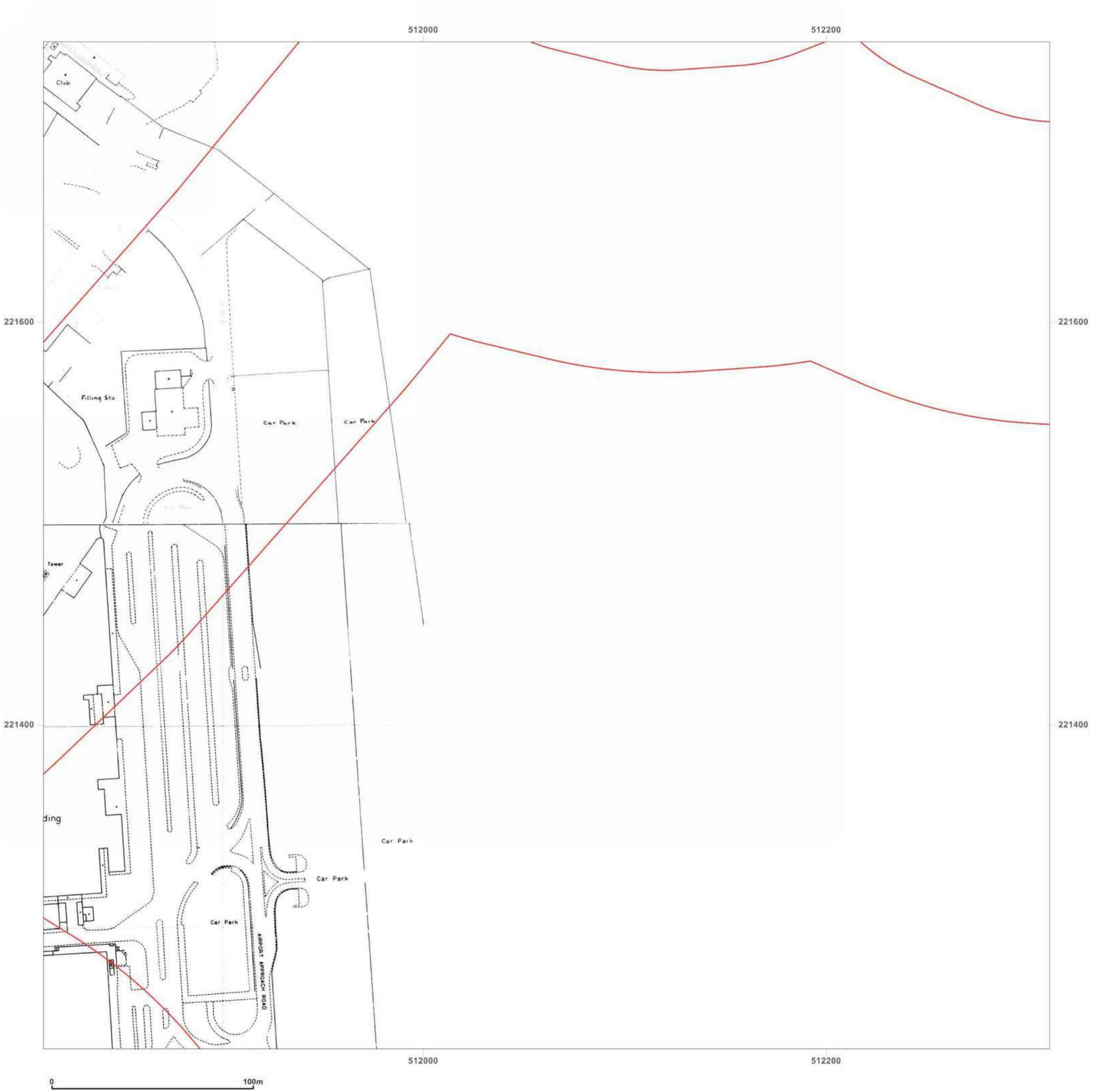


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid

Map date: **1991-1993**

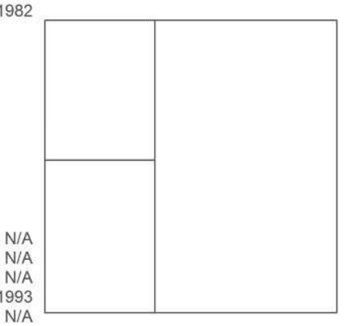
Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1991
Levelled 1982

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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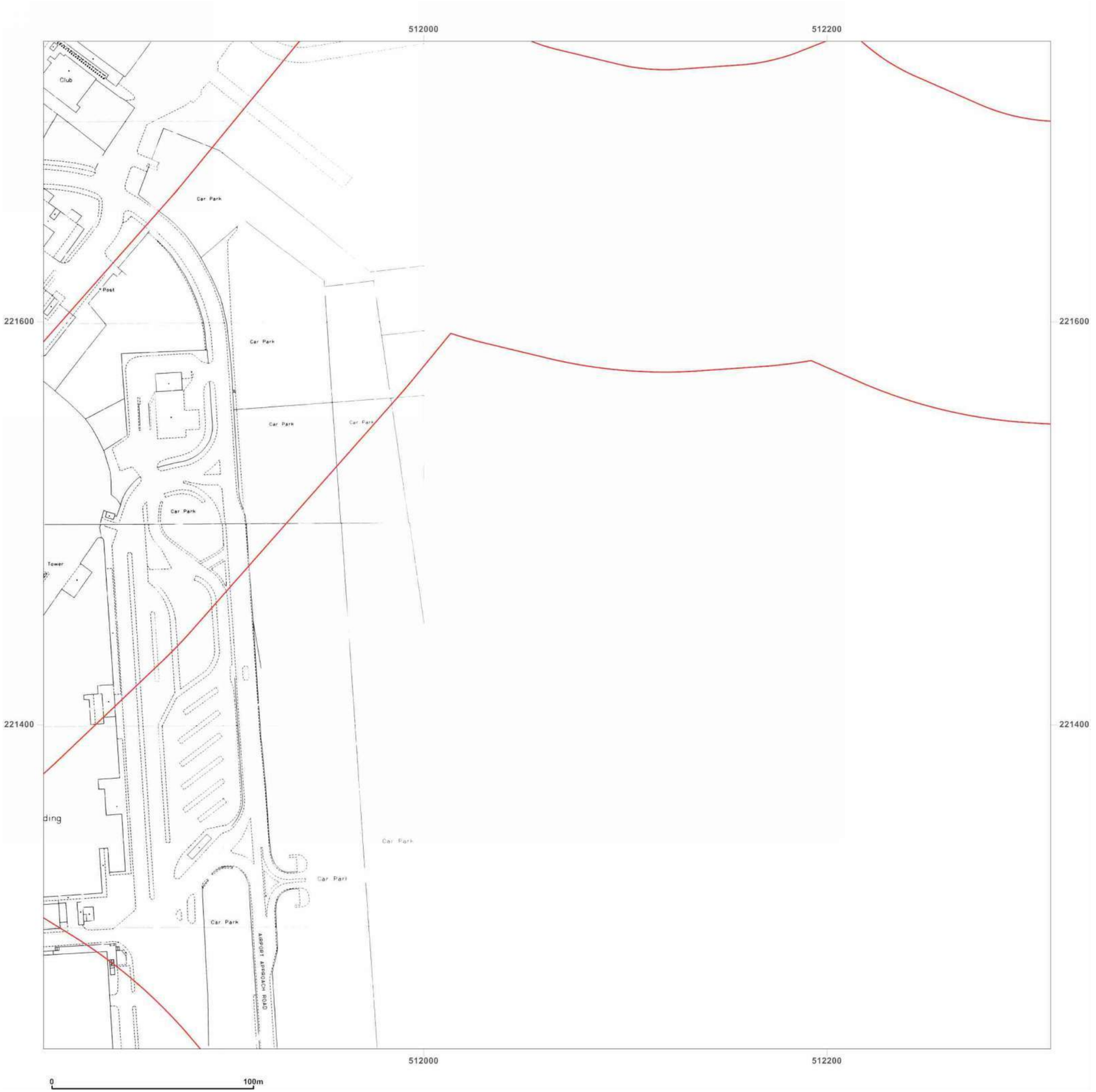

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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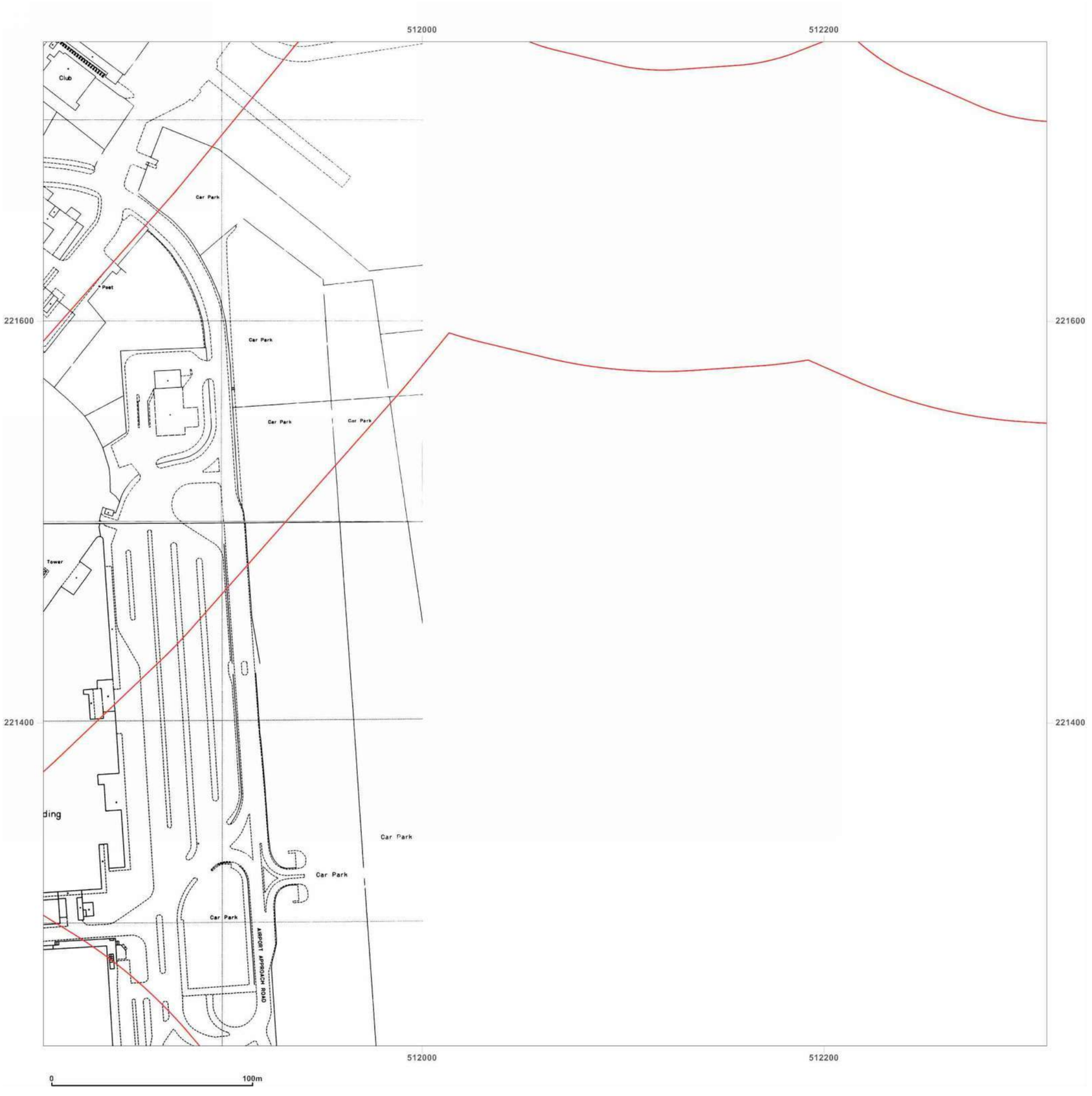


Groundsure INSIGHTS

Site Details:

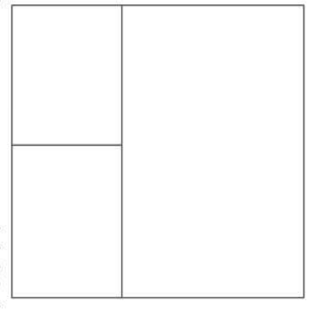
Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid
Map date: **1993-1994**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S

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



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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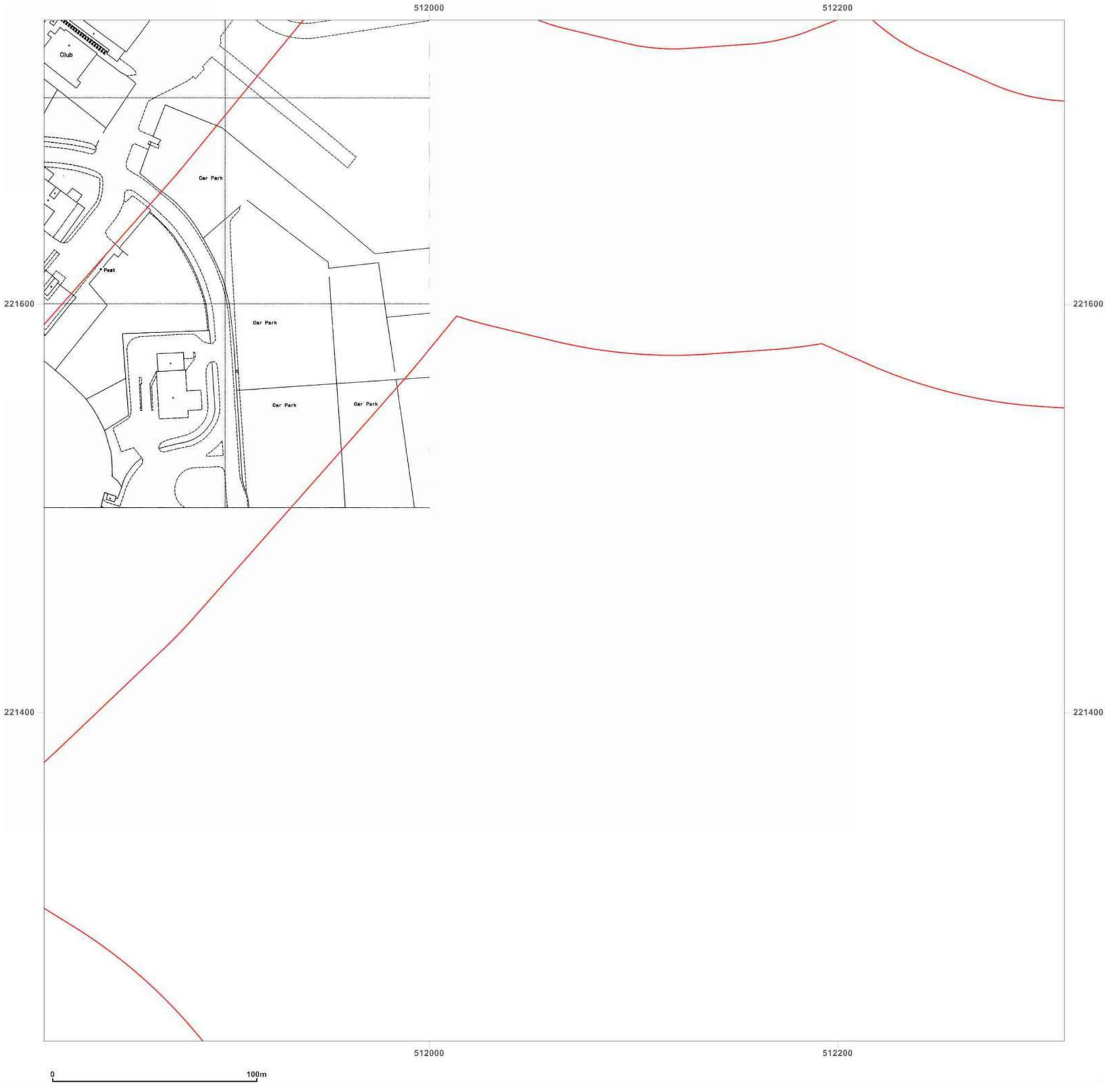


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: National Grid

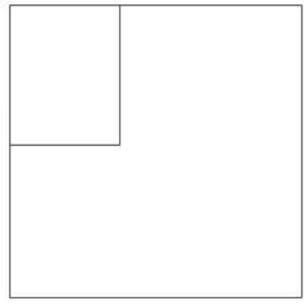
Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

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



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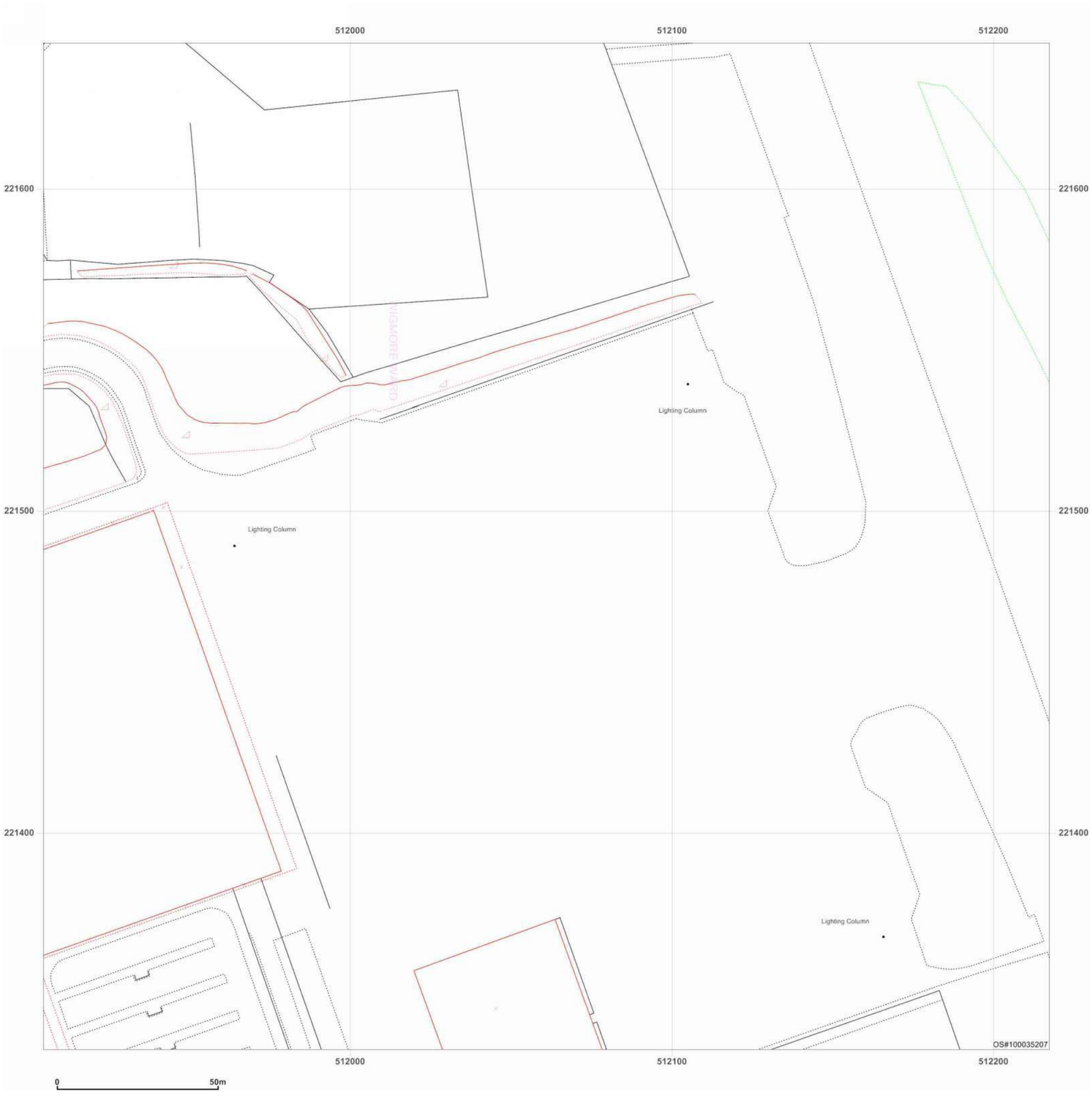


Groundsure INSIGHTS

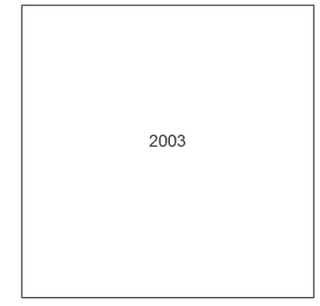
Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_3
Grid Ref: 512061, 221489

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
S



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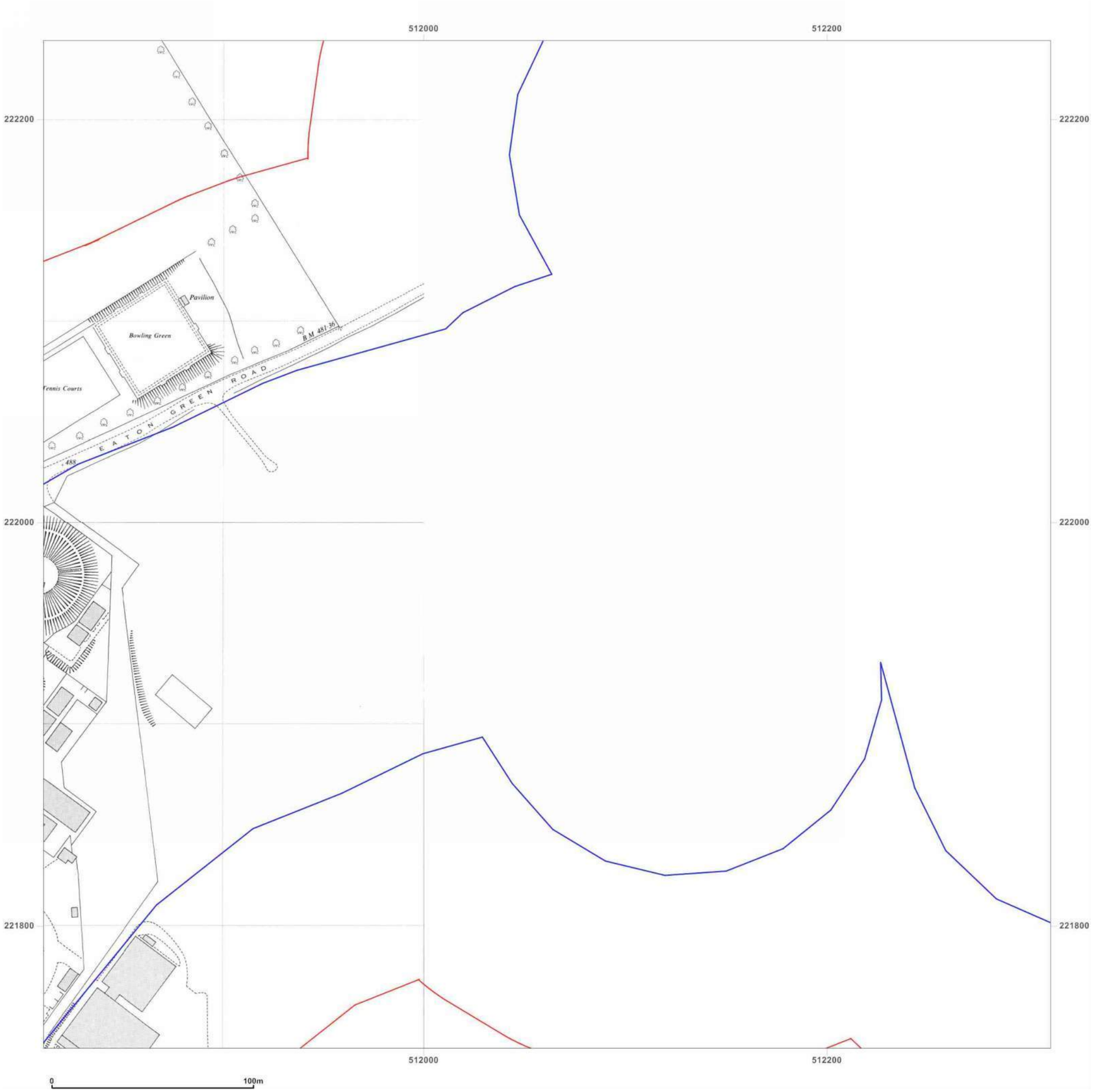

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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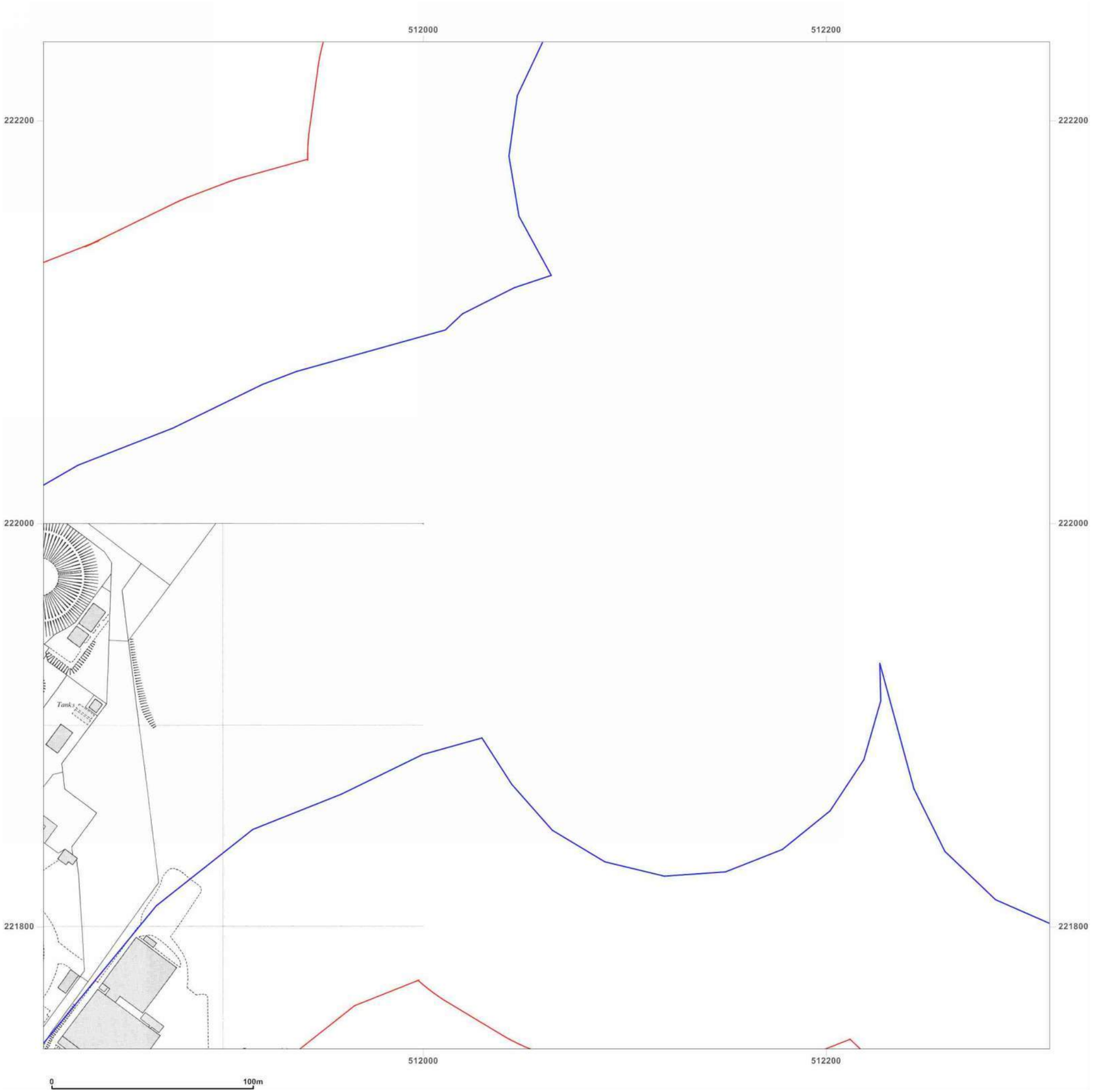


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

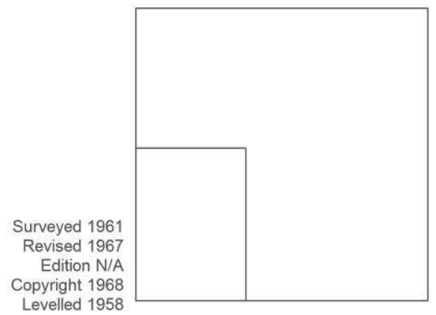
Map Name: National Grid

Map date: **1967**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S



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Production date: 23 November 2020

Map legend available at:
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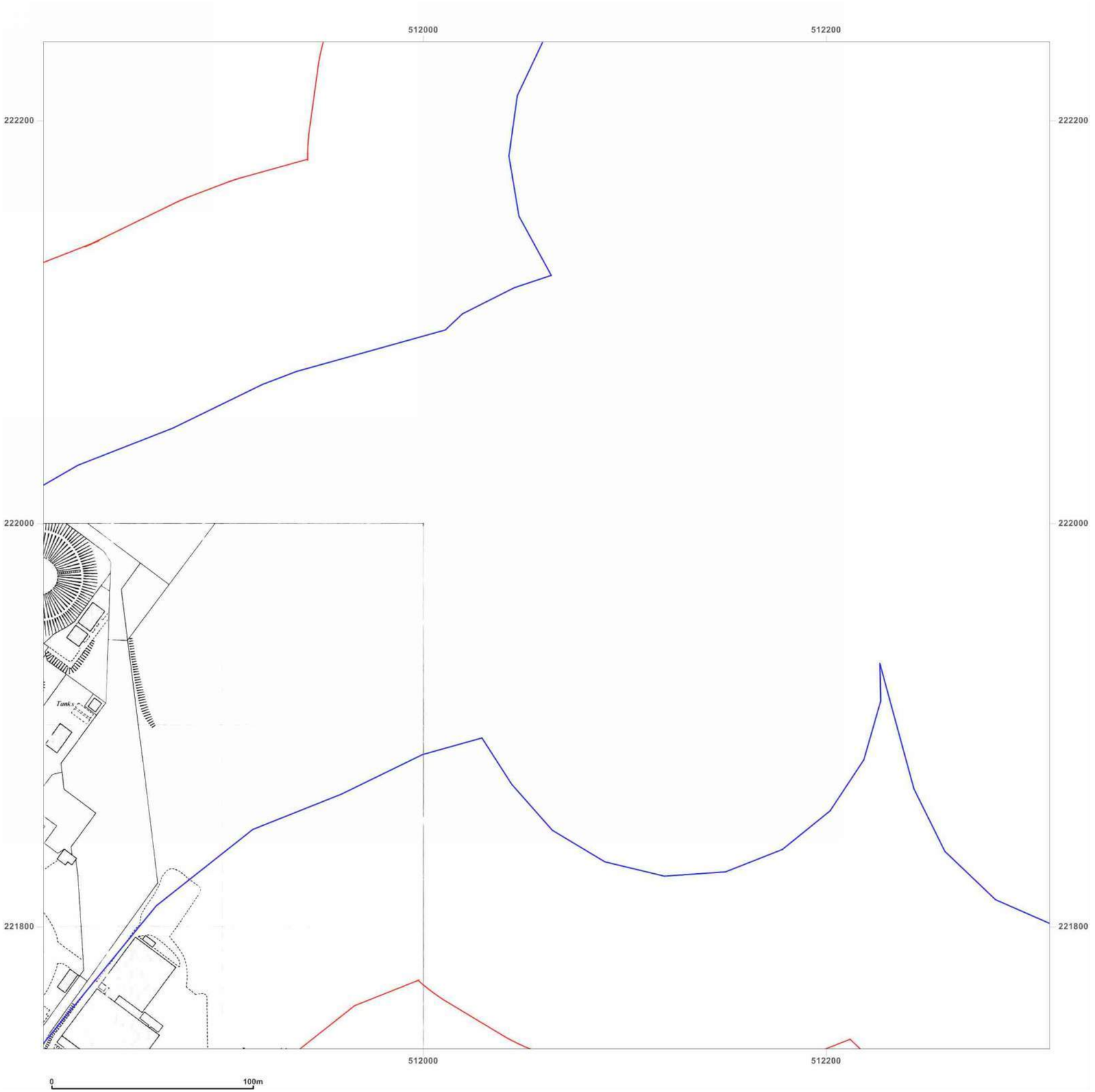


Groundsure INSIGHTS

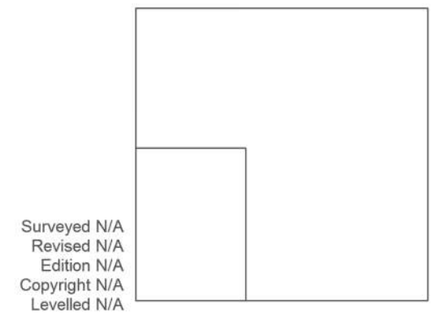
Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid
Map date: **1968**
Scale: 1:1,250
Printed at: 1:2,000

N
W E
S



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Map legend available at:
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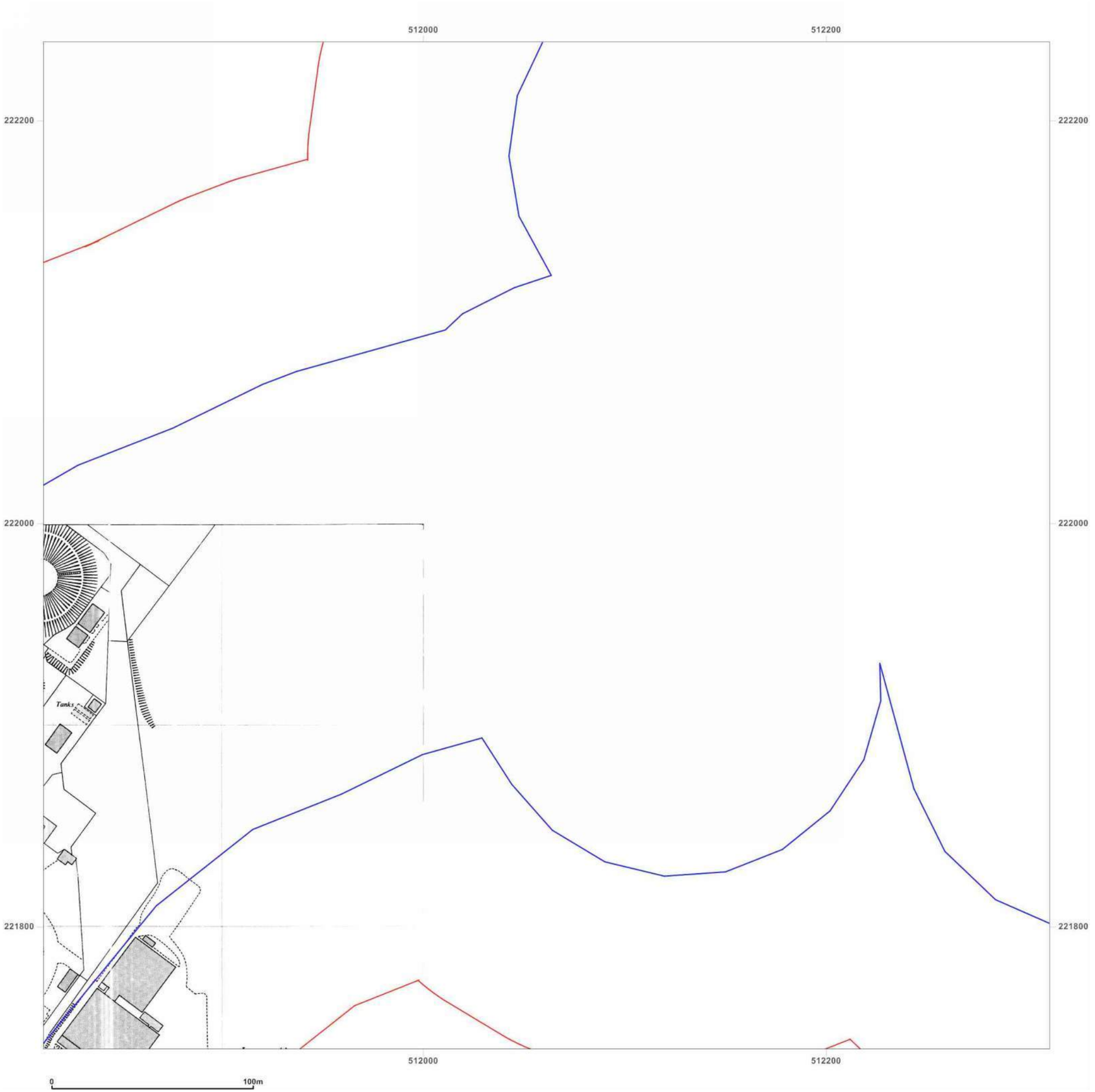

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

Map date: **1968**

Scale: 1:1,250

Printed at: 1:2,000

N
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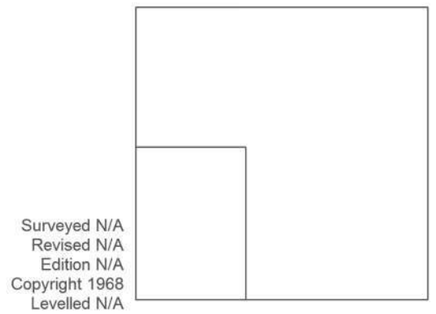

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Production date: 23 November 2020

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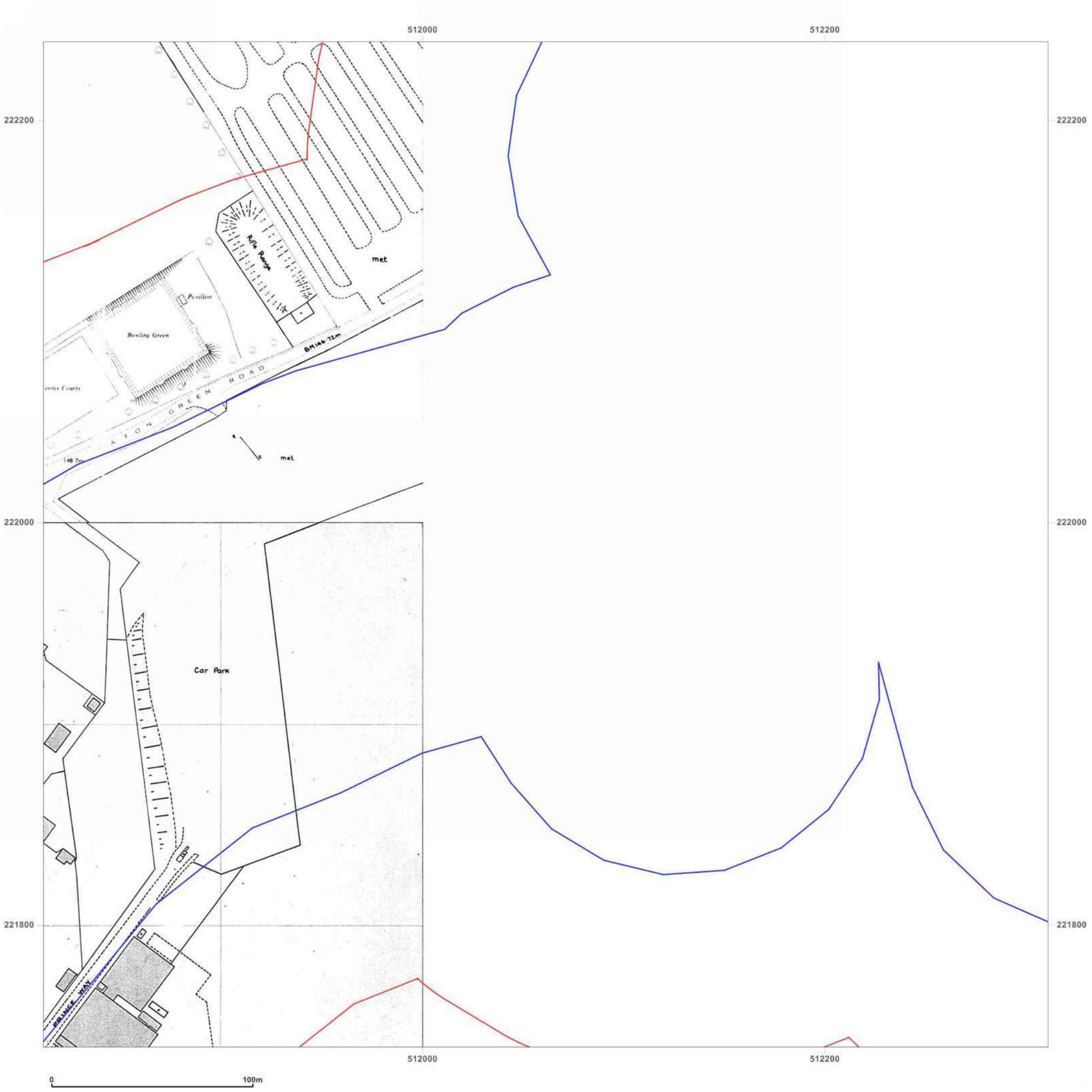

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

Map date: **1978-1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958

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Production date: 23 November 2020

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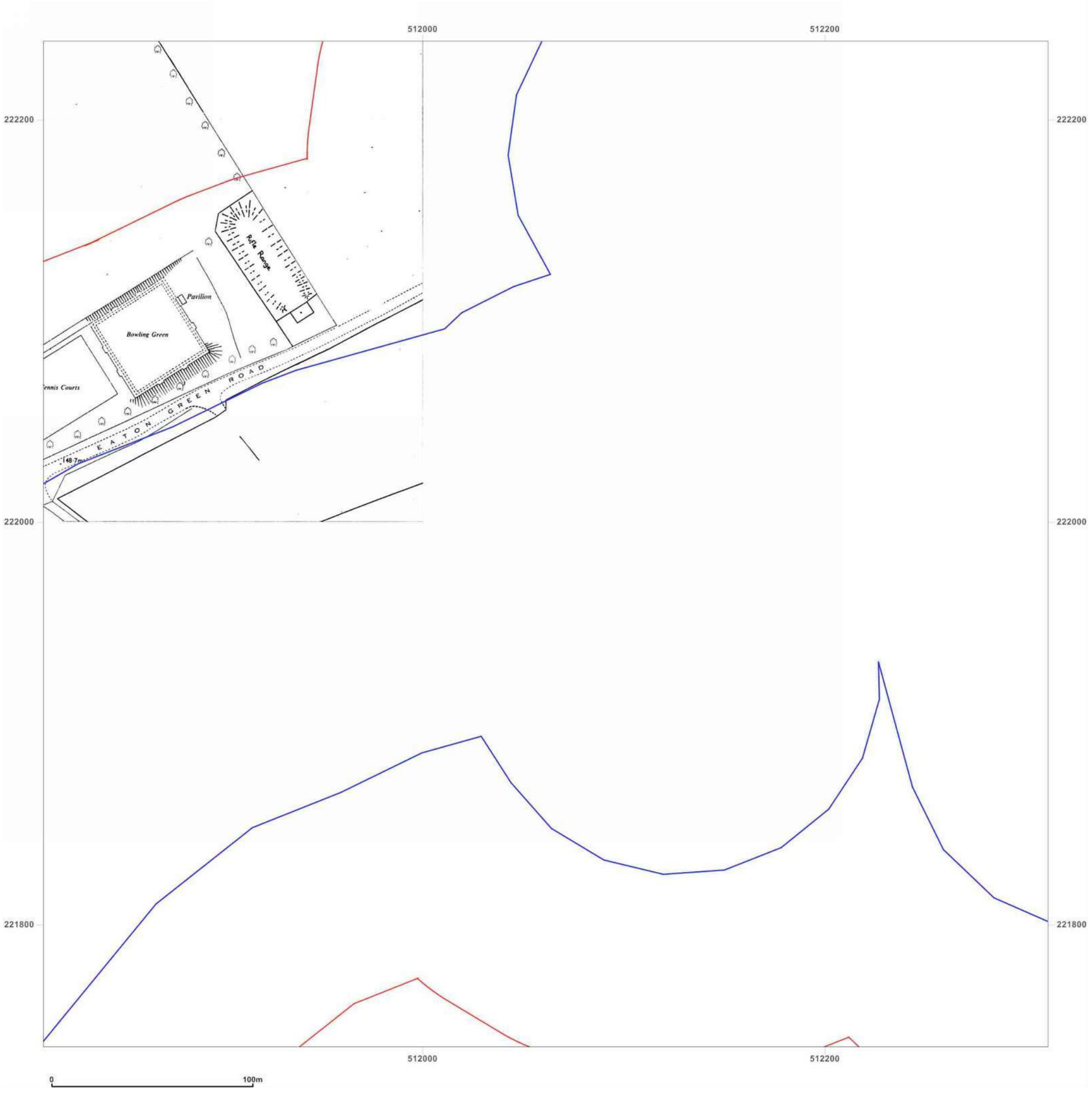


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

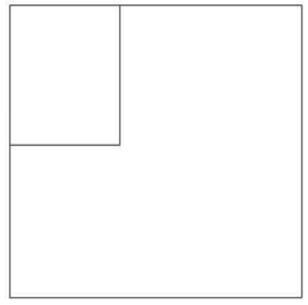
Map date: **1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958



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Production date: 23 November 2020

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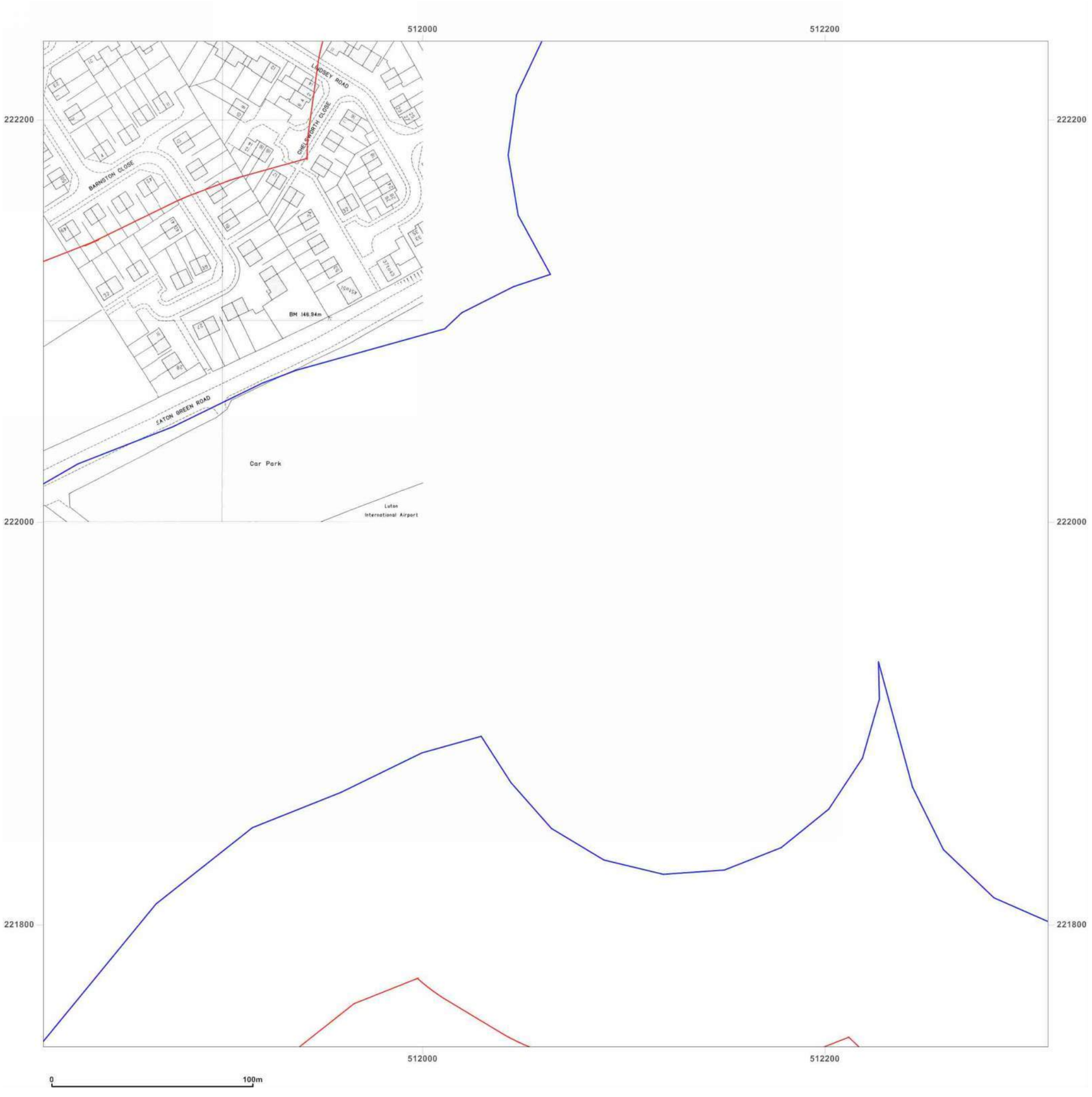


Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

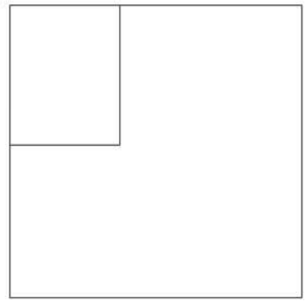
Map date: **1985**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1985
Edition N/A
Copyright 1986
Levelled 1982



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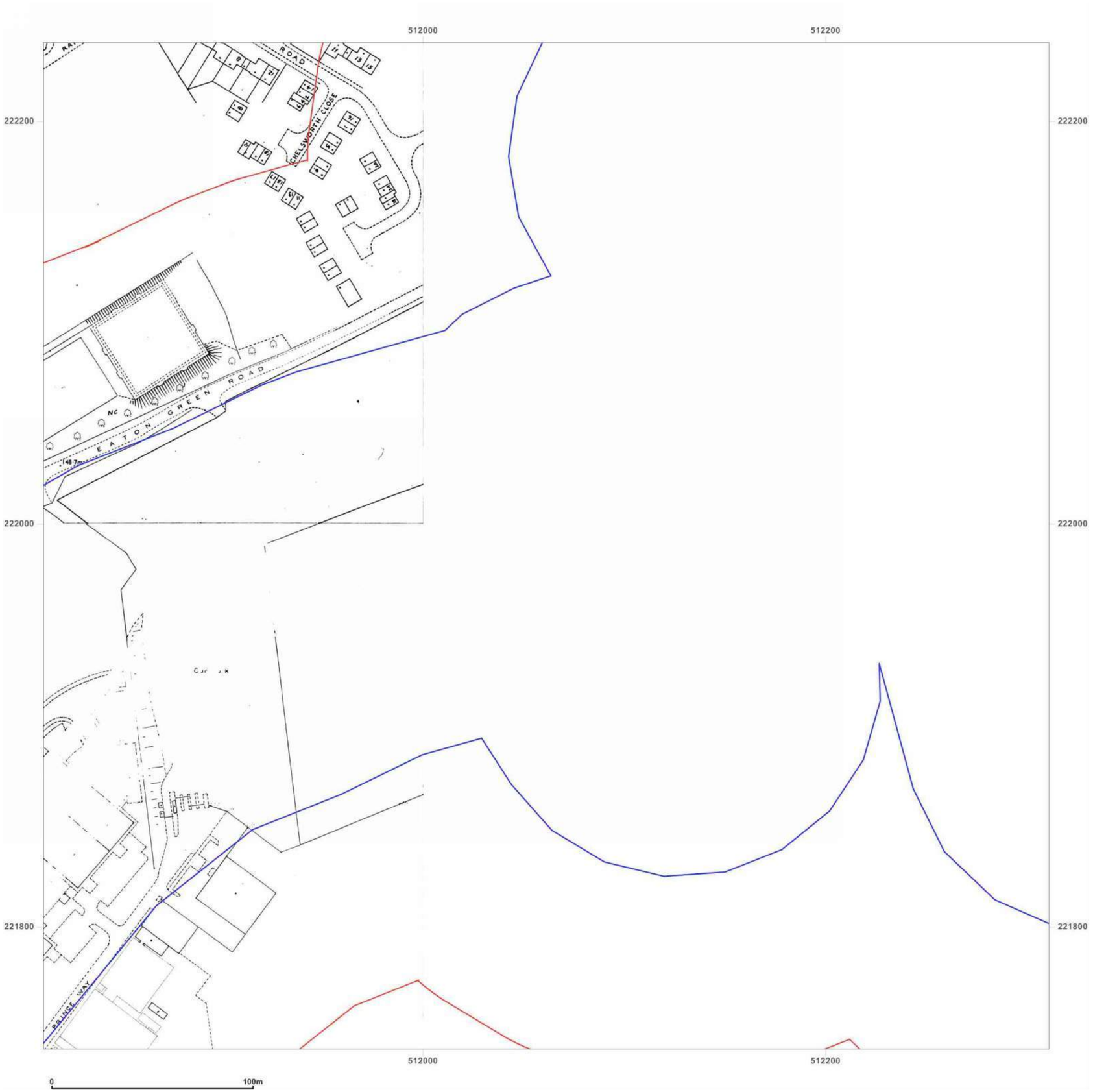

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

Map date: **1982-1987**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1982
Levelled 1958

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982

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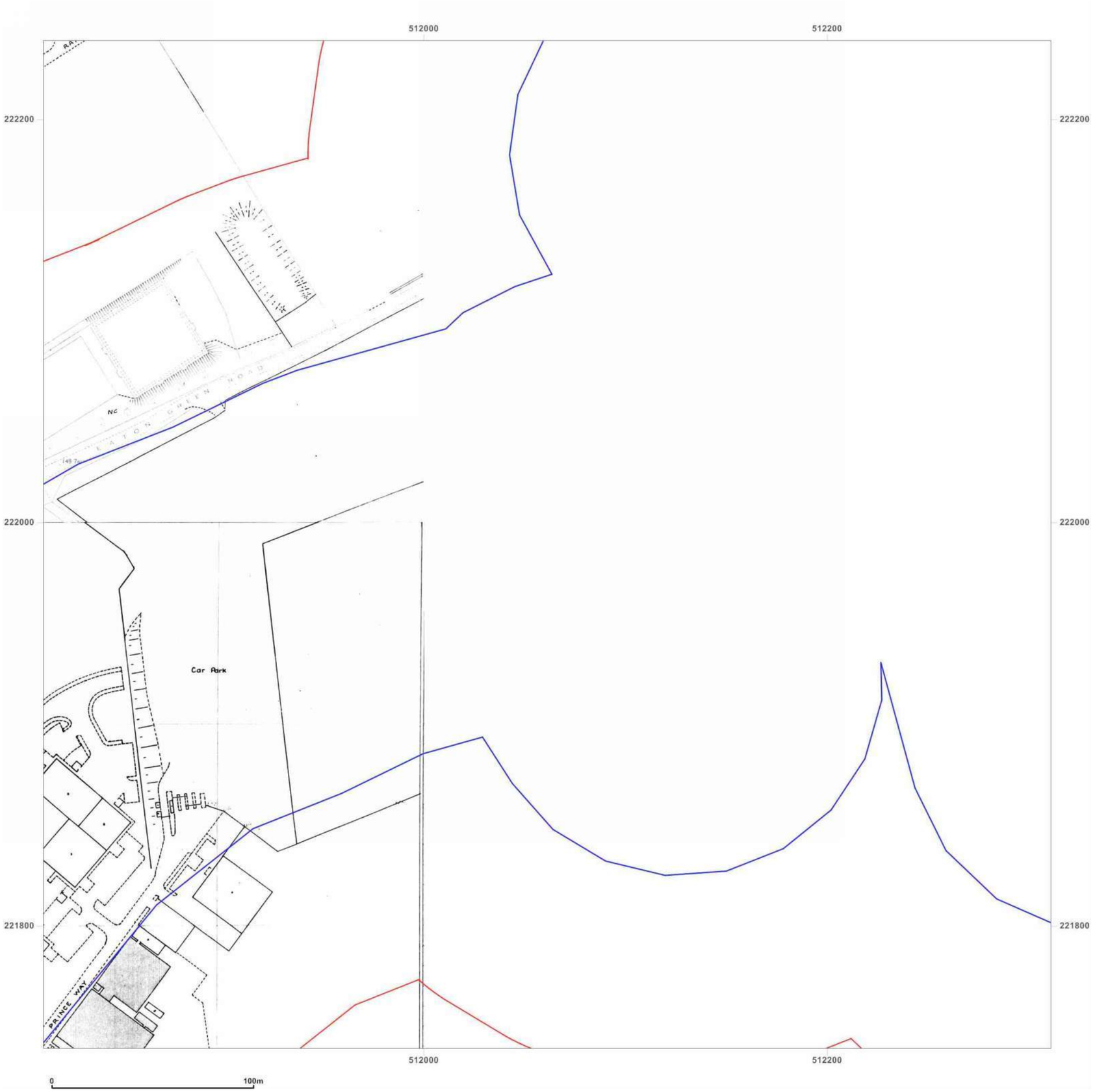

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

Map date: **1982-1987**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1982
Levelled 1958

Surveyed 1982
Revised 1987
Edition N/A
Copyright 1987
Levelled 1982

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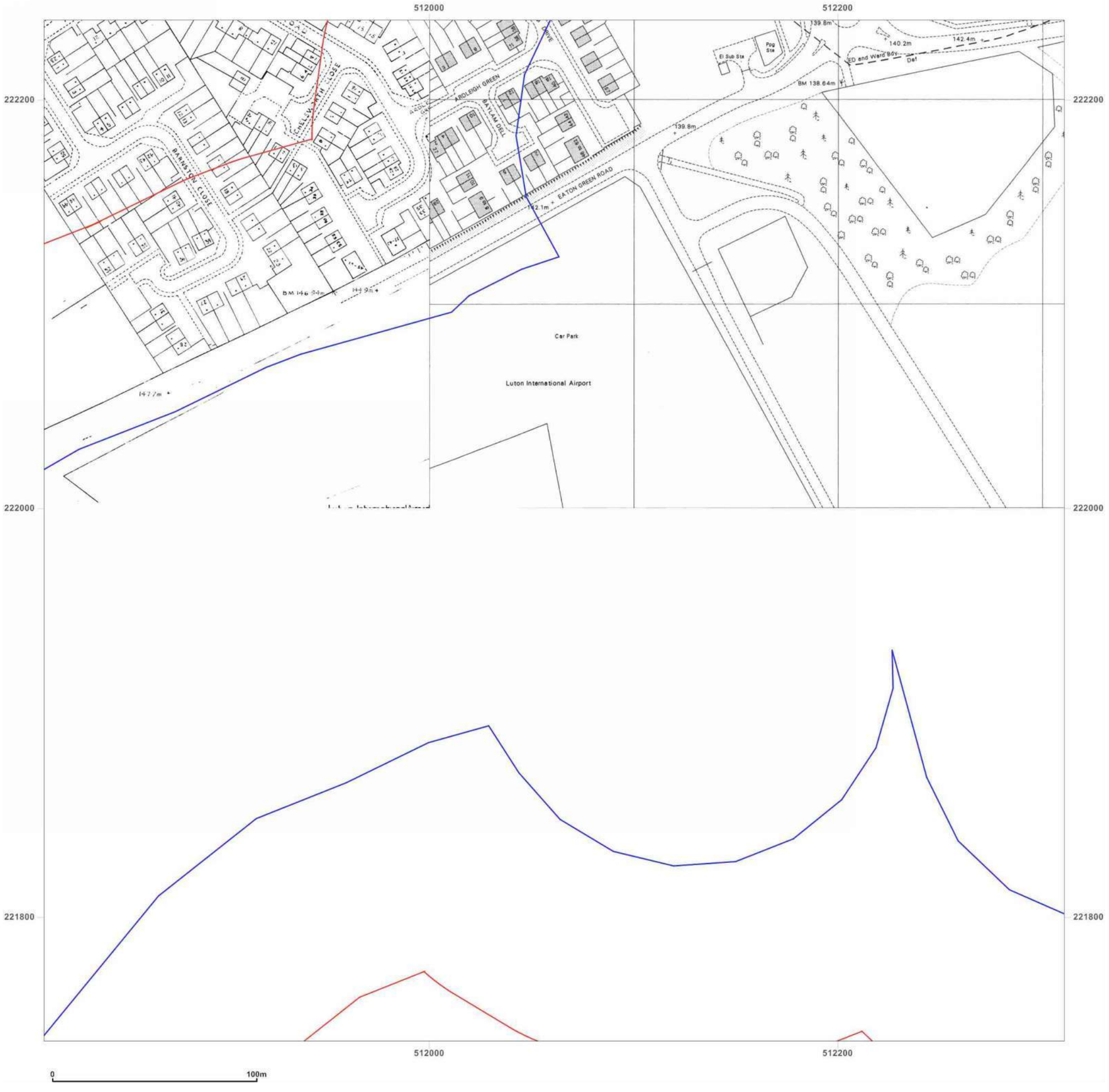


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

Map date: **1984-1989**

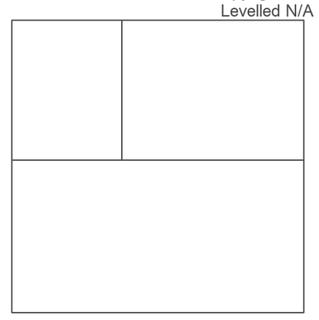
Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled 1982

Surveyed 1988
Revised 1988
Edition N/A
Copyright 1989
Levelled N/A



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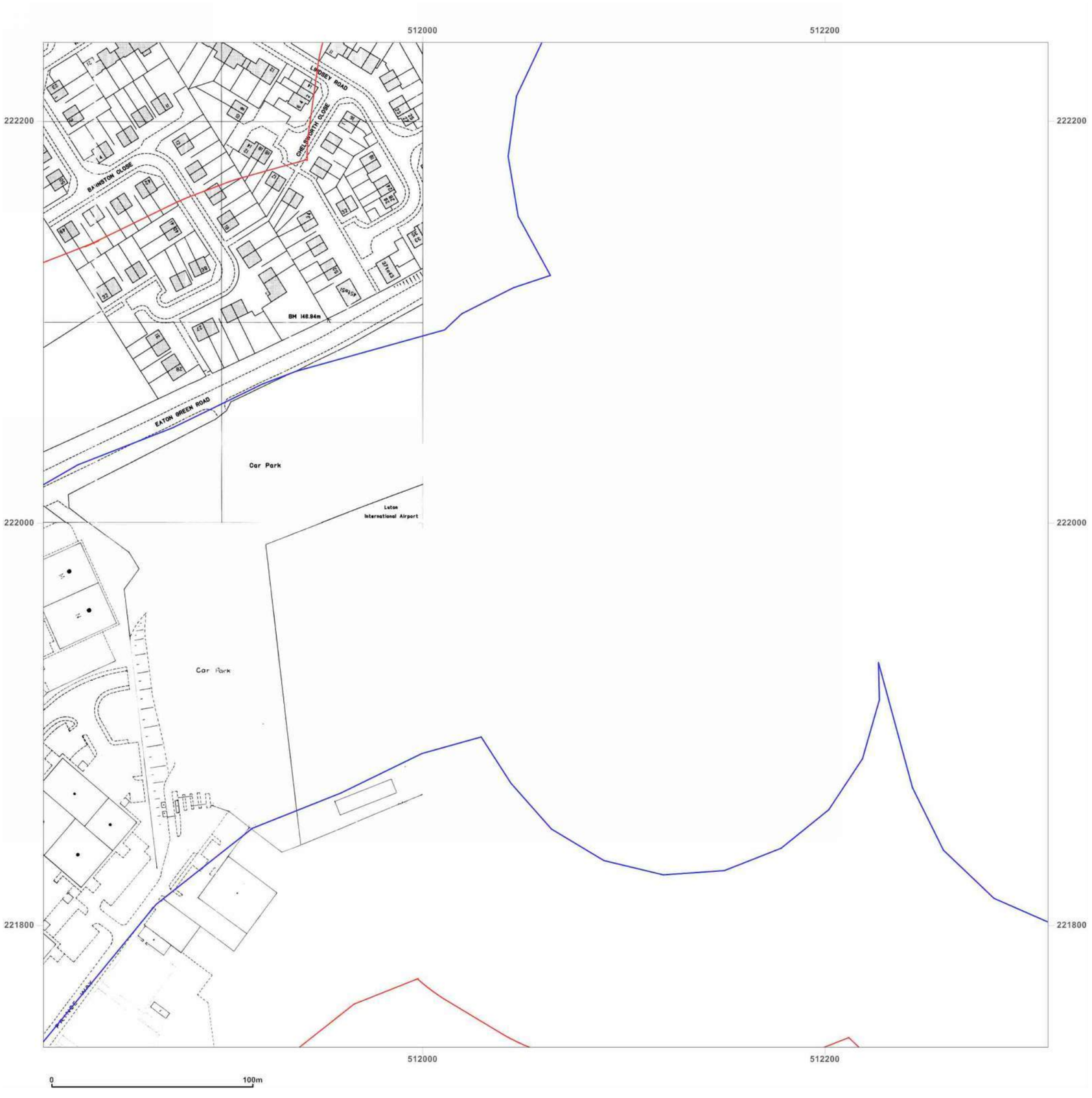

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

Map date: **1986-1991**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed 1981
Revised 1985
Edition N/A
Copyright 1988
Levelled 1982

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1991
Levelled 1982

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

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

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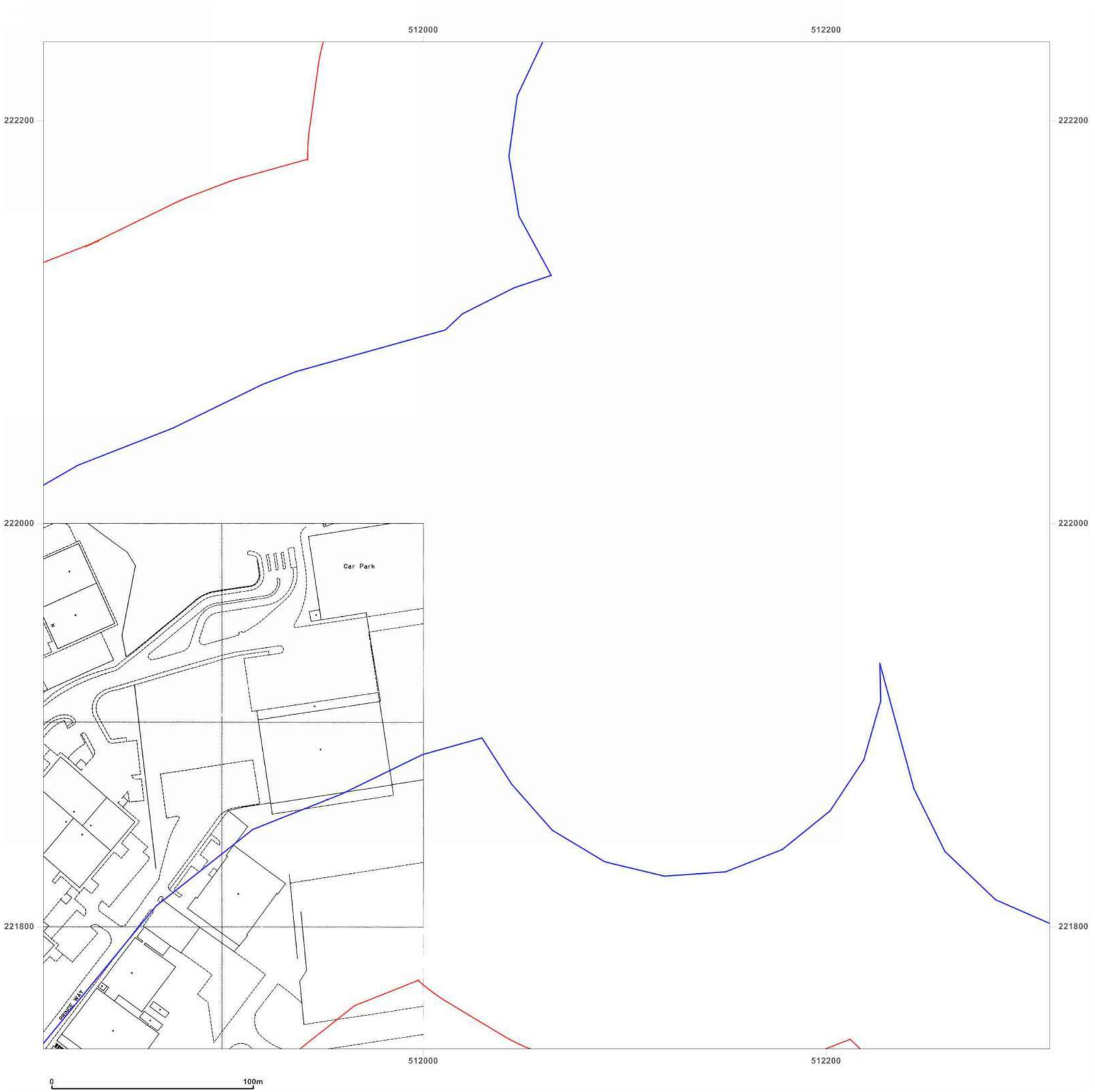

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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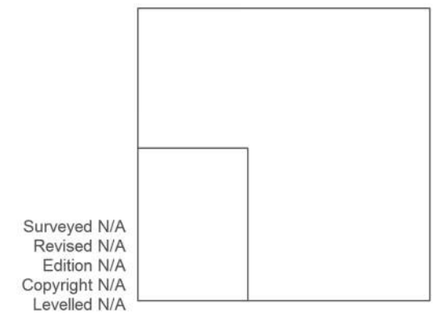

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_4
Grid Ref: 512061, 221989

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
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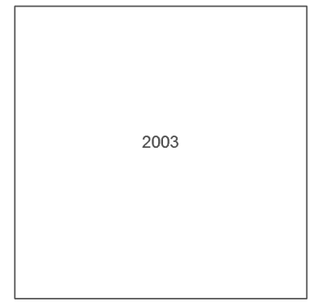

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Production date: 23 November 2020

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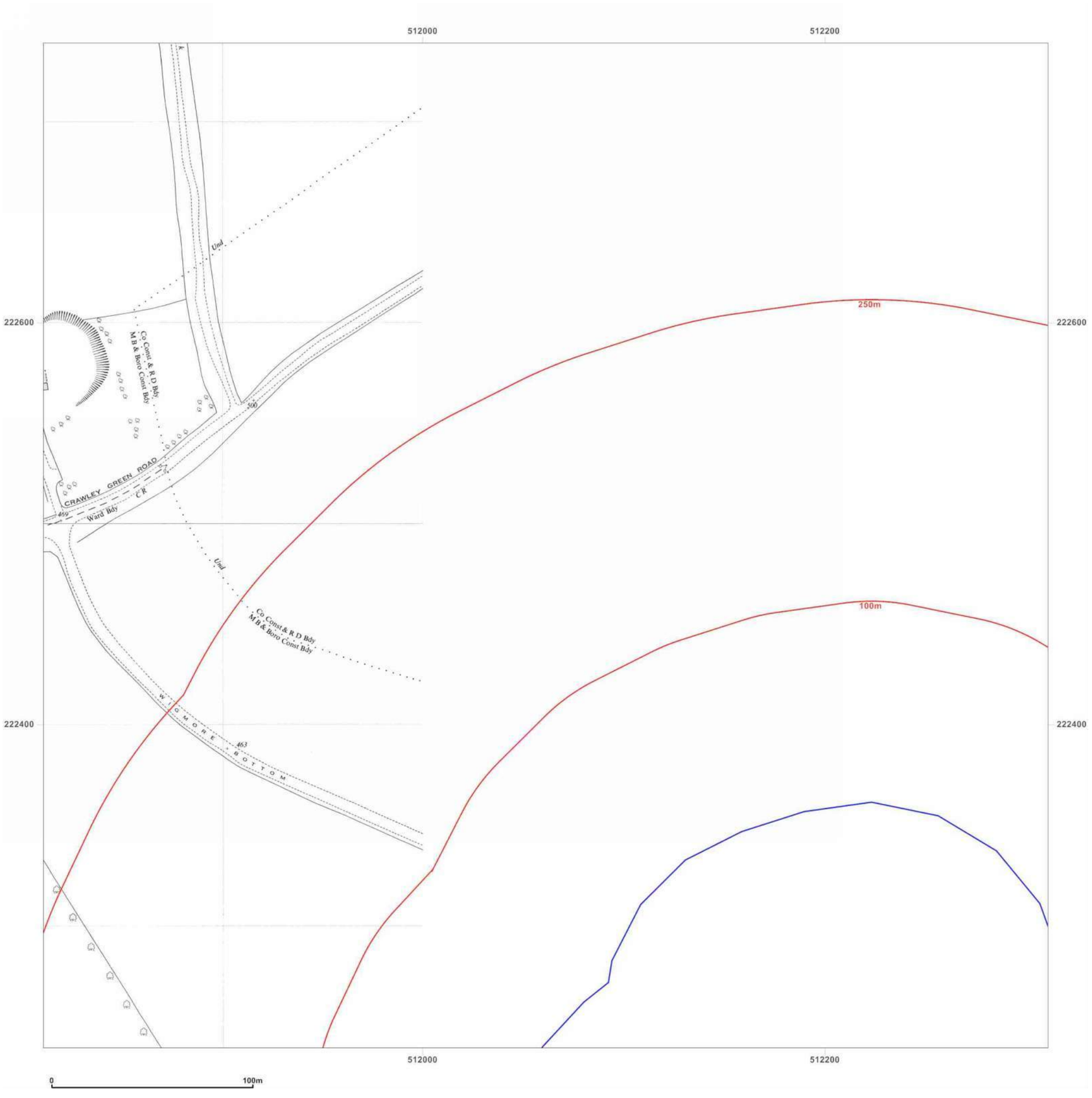

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

N
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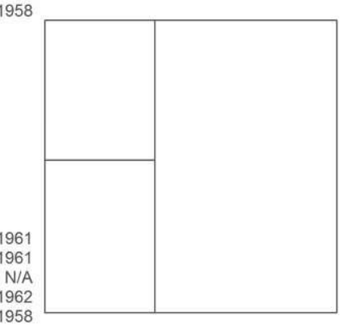
Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958



Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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Production date: 23 November 2020

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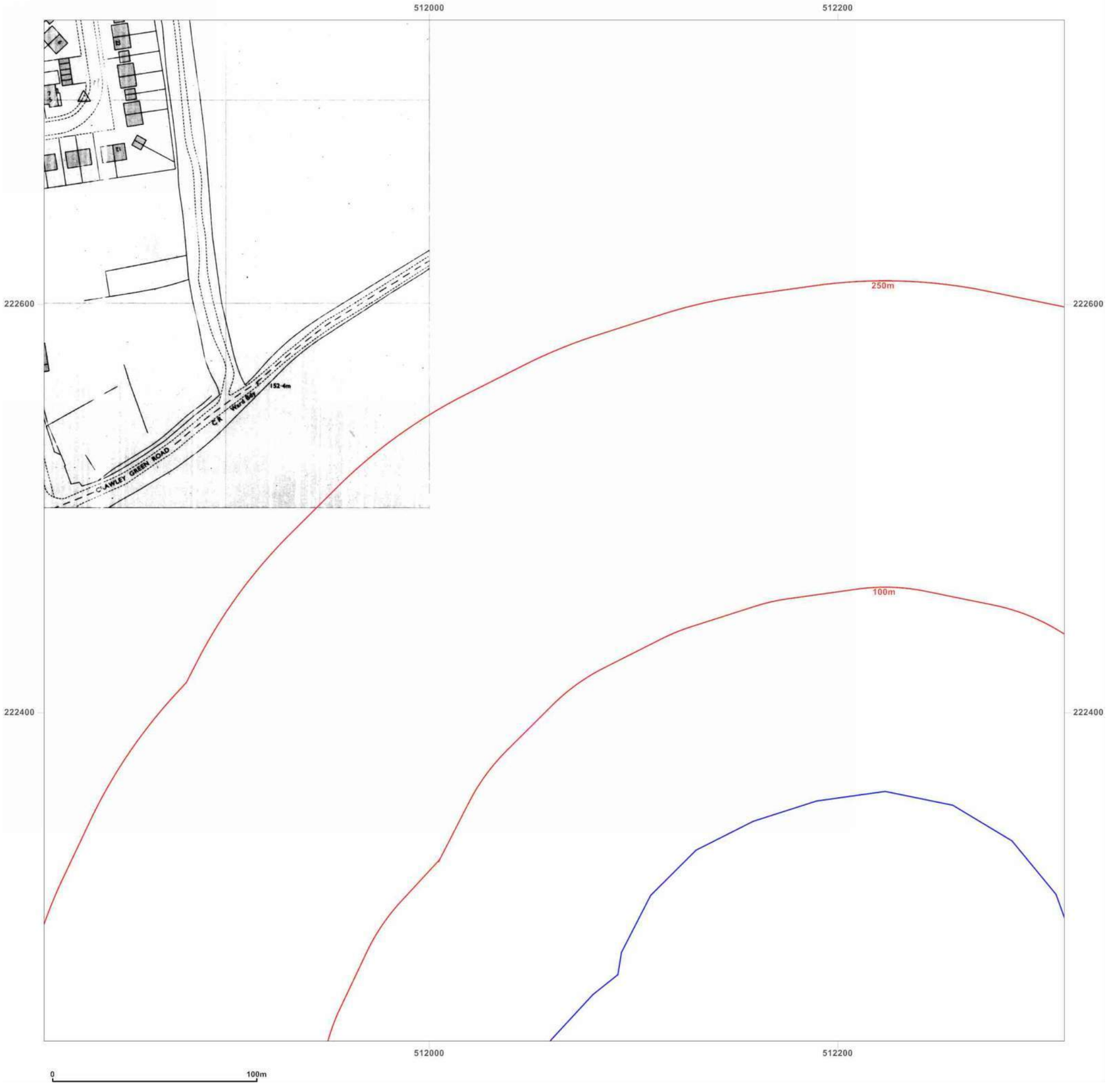


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

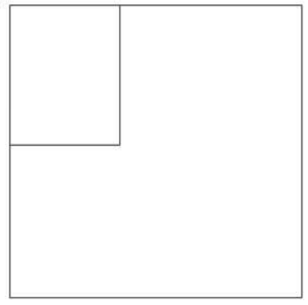
Map date: **1974**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

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



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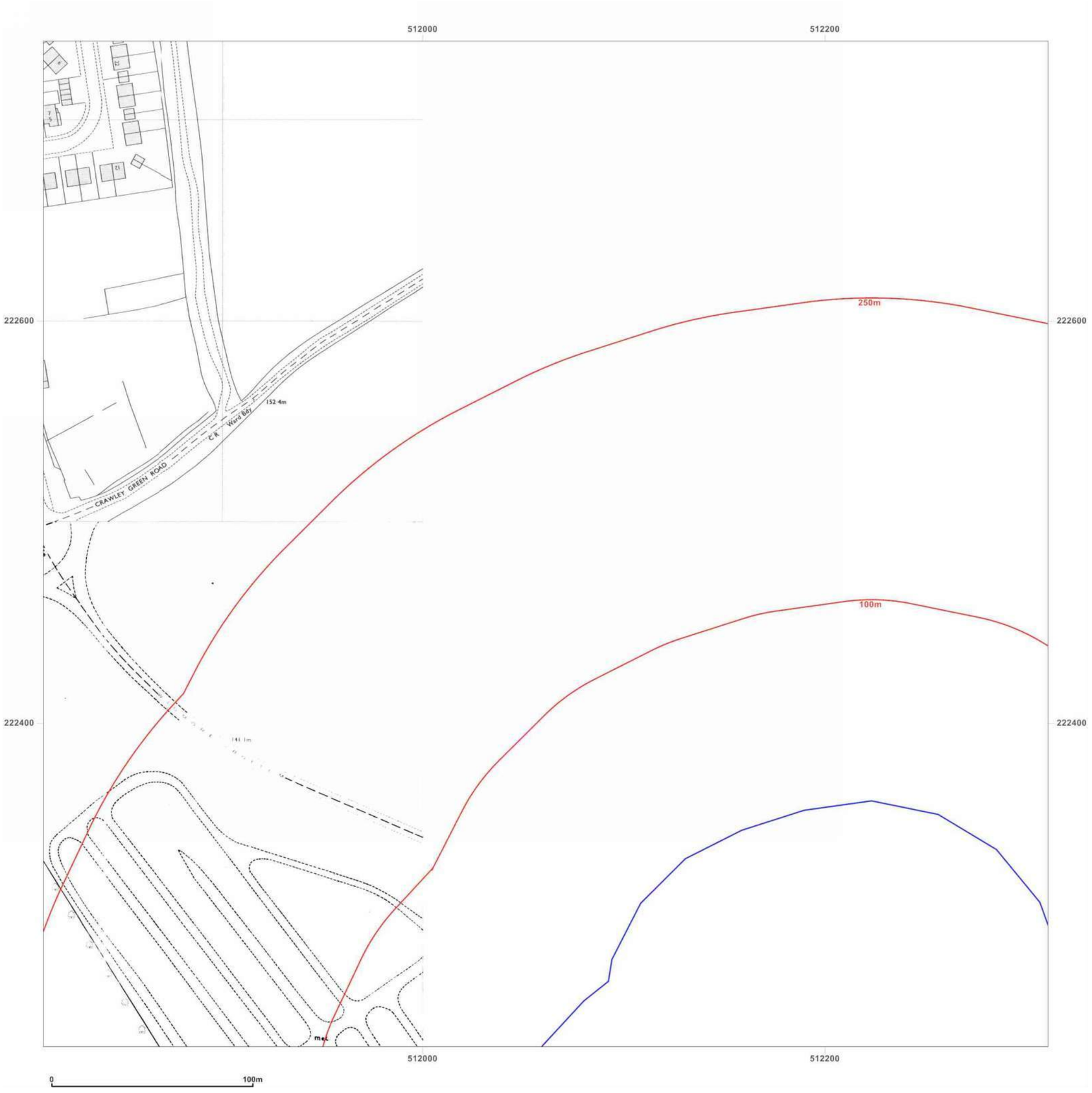

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

Map date: **1973-1978**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1973
Edition N/A
Copyright 1973
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled N/A

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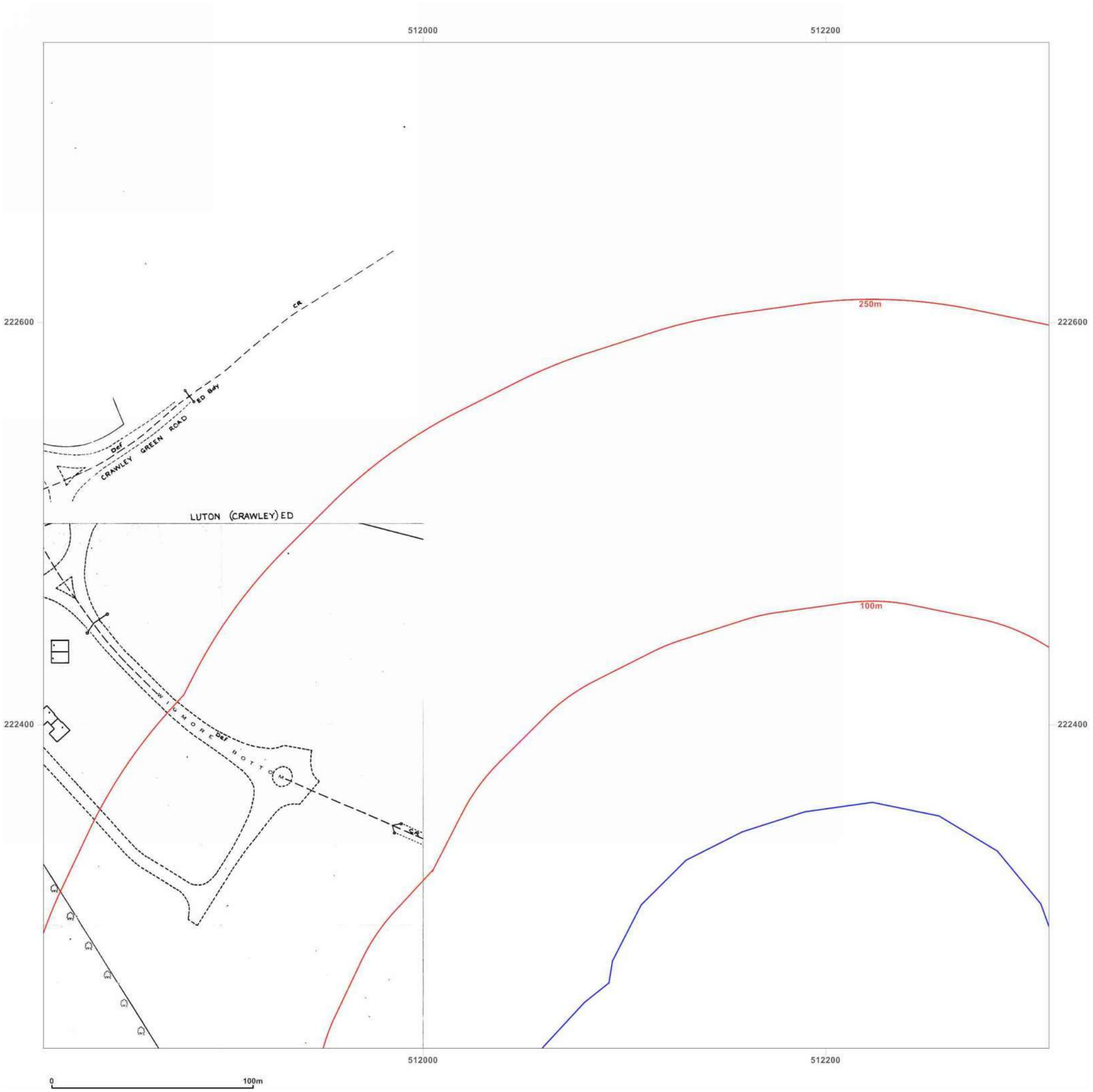

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

Map date: **1977-1981**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1958

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

Map date: **1979-1982**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1978
Edition N/A
Copyright 1979
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1982
Levelled 1958

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Production date: 23 November 2020

Map legend available at:
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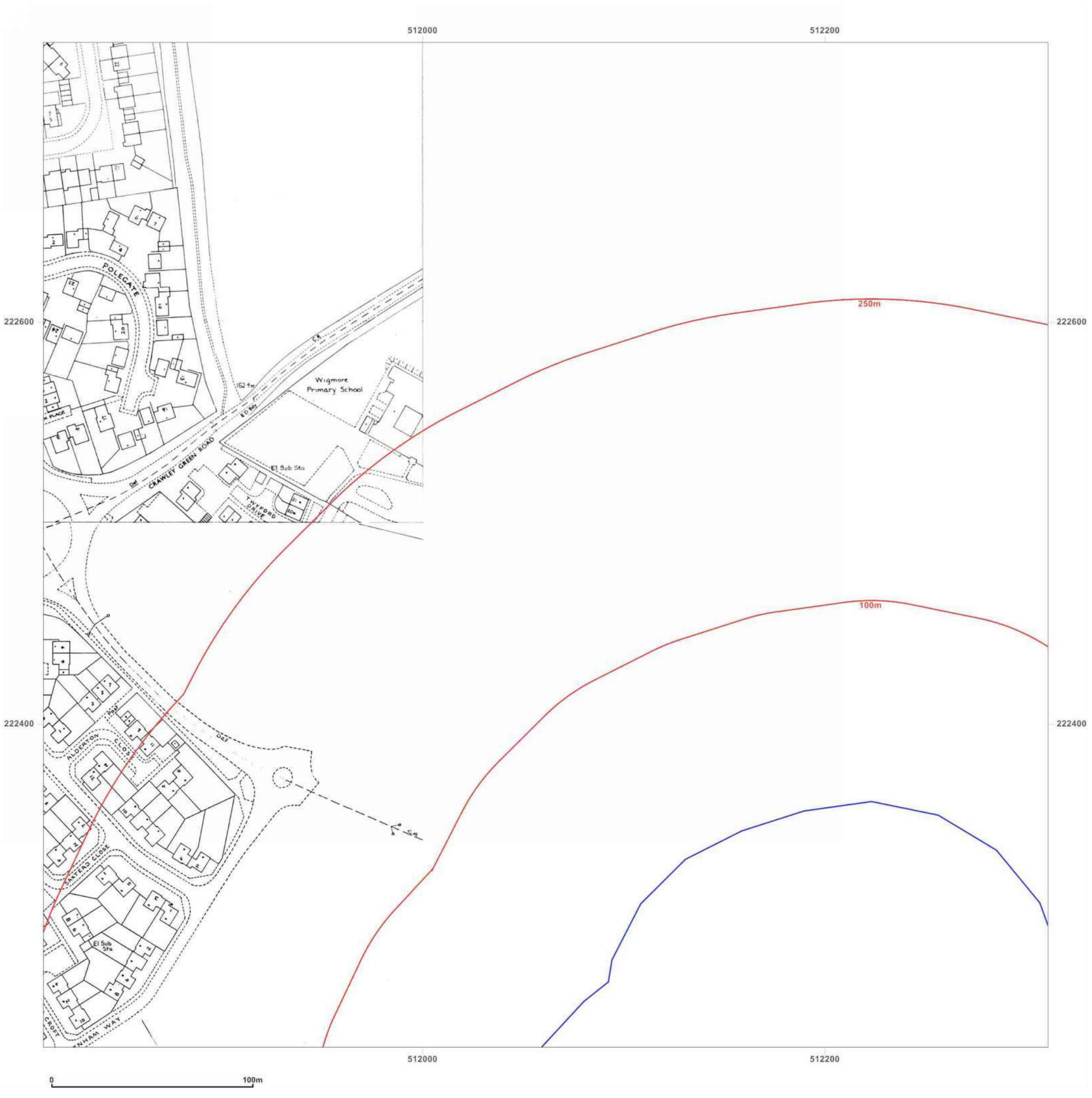

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

Map date: **1982-1984**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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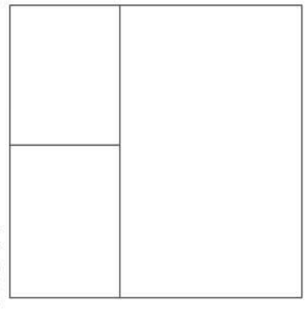
Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982



Surveyed N/A
Revised N/A
Edition N/A
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Levelled 1958

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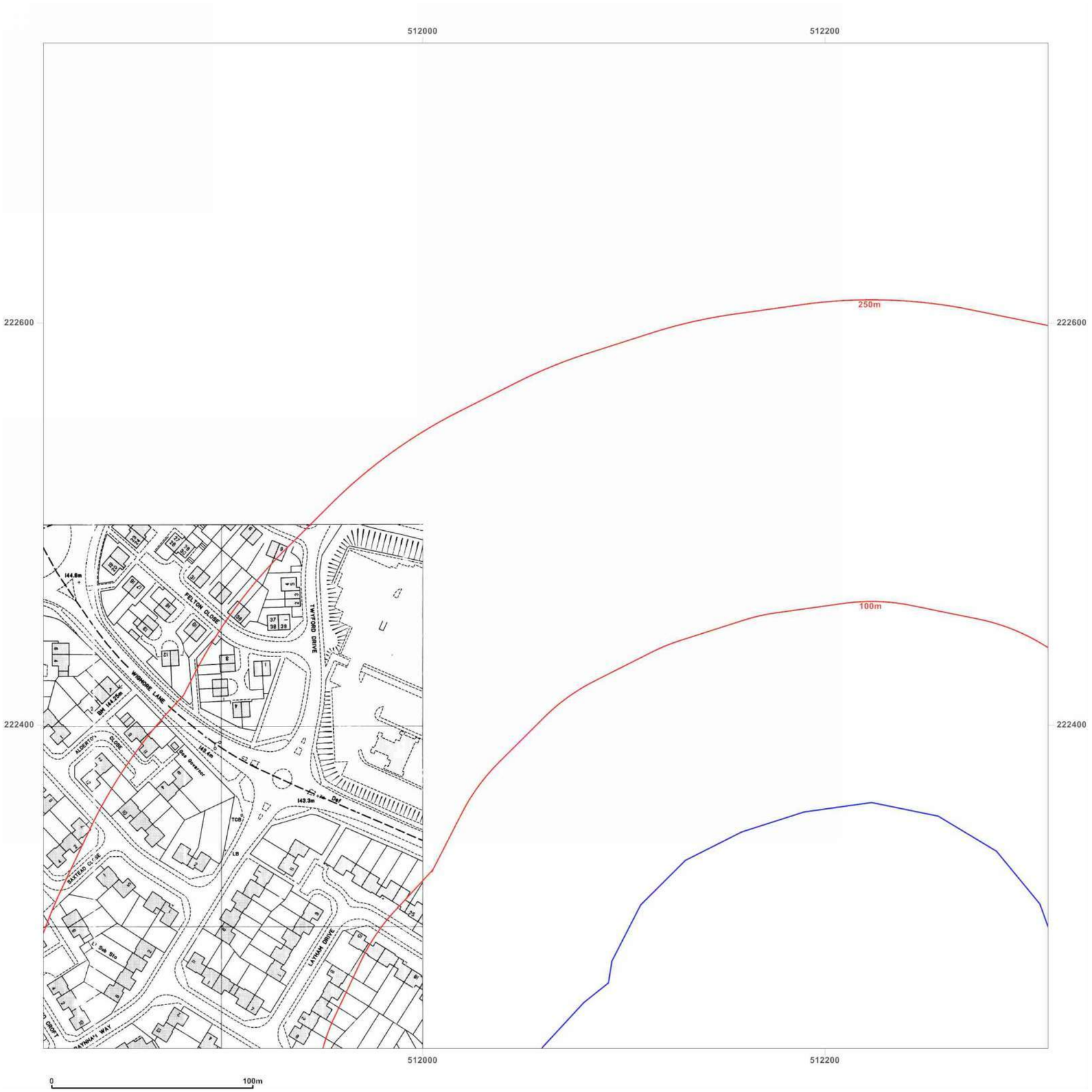

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

Map date: **1986**

Scale: 1:1,250

Printed at: 1:2,000

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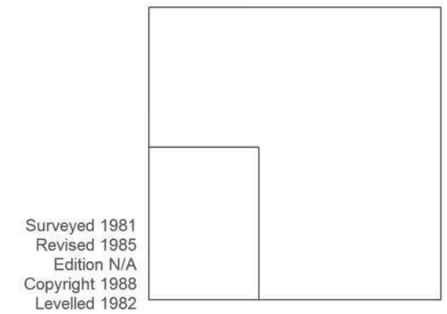

Surveyed 1981
Revised 1985
Edition N/A
Copyright 1988
Levelled 1982

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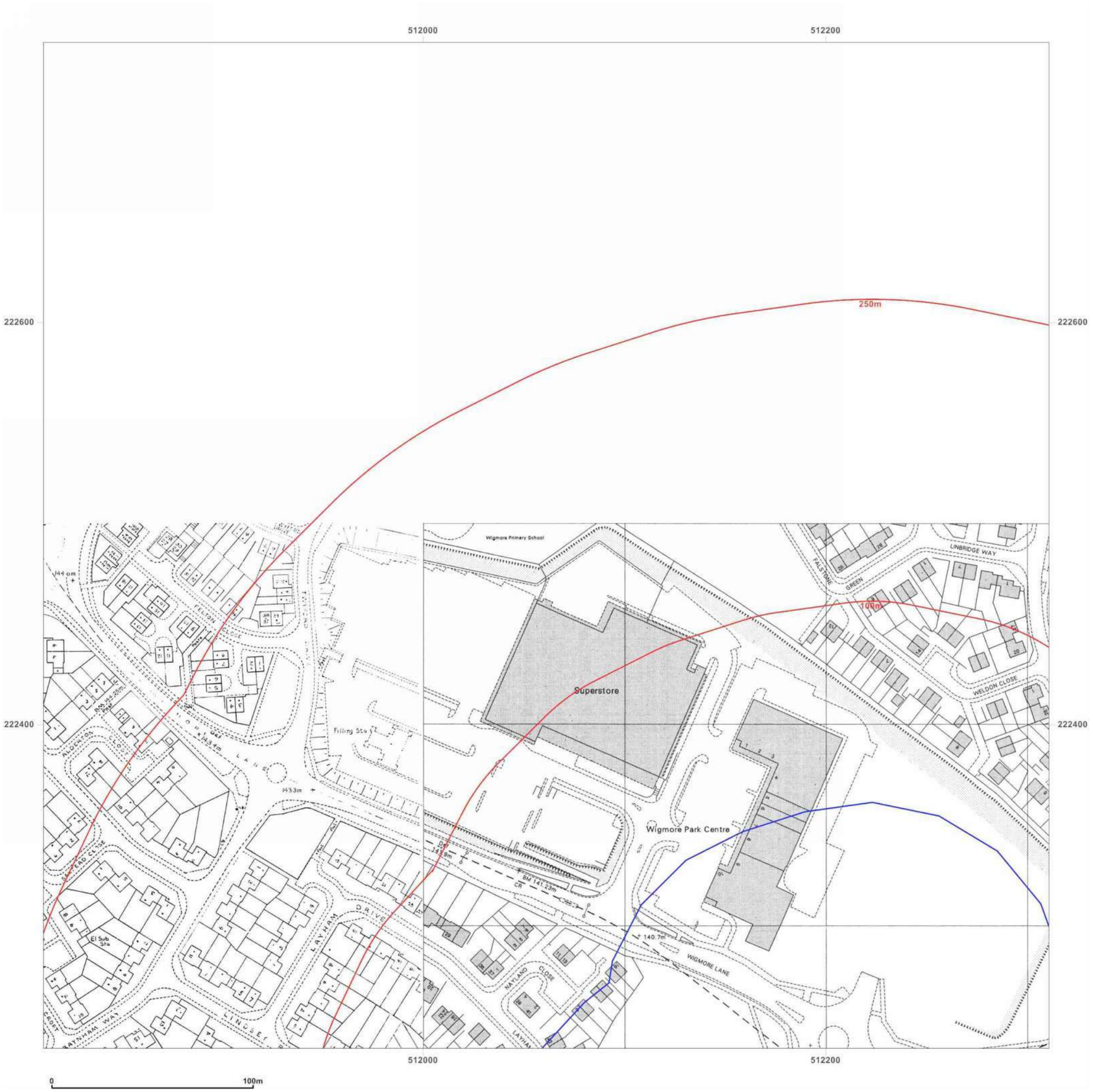

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

Map date: **1984-1989**

Scale: 1:1,250

Printed at: 1:2,000

N
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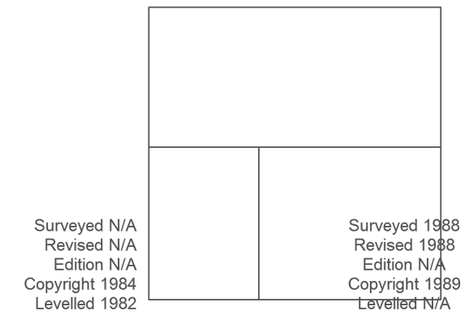

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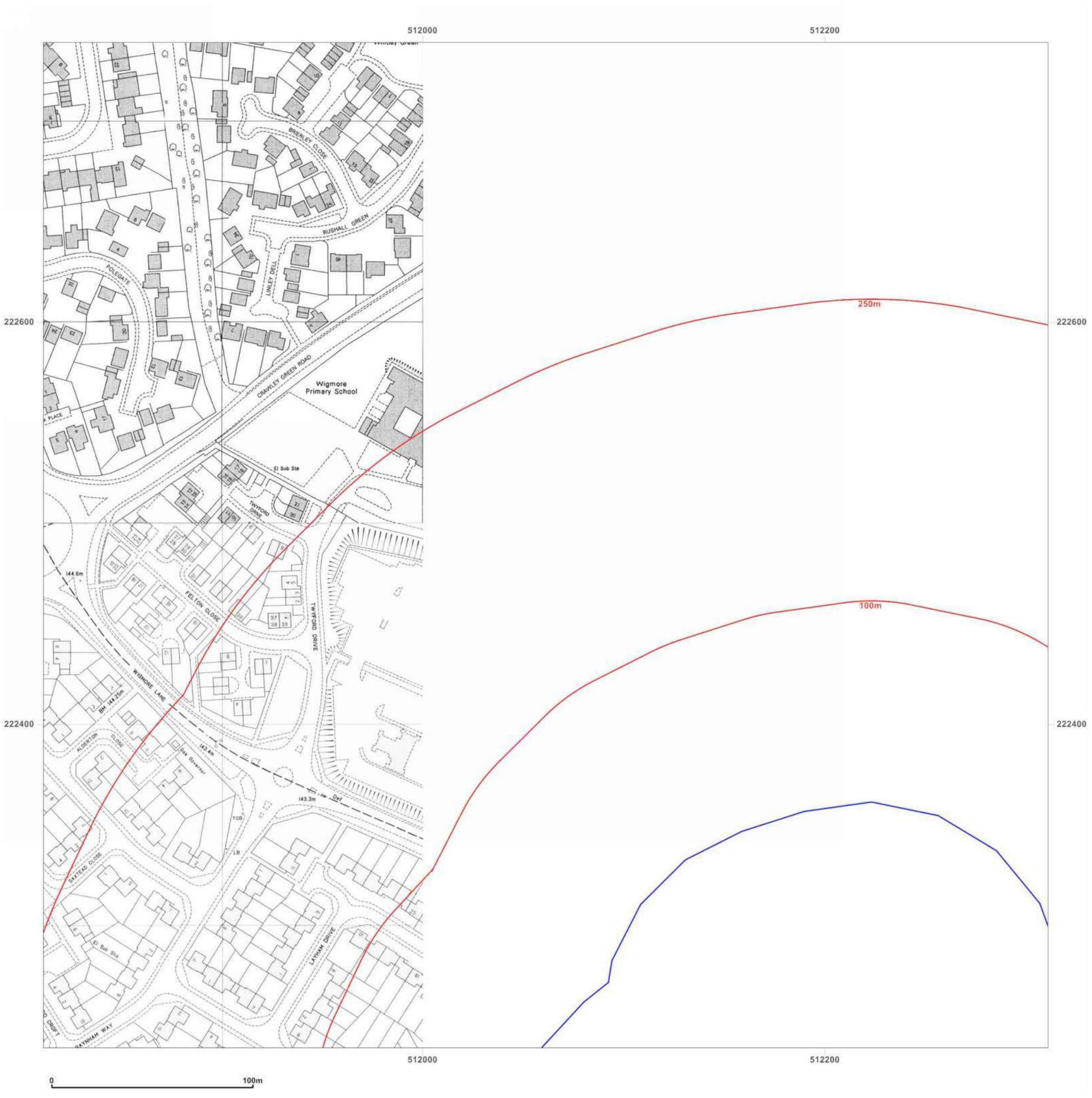


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

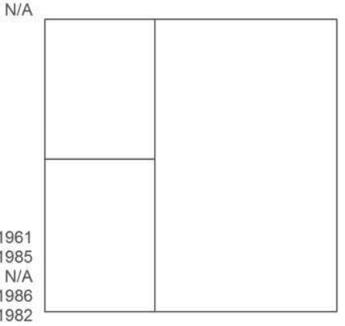
Map date: **1985-1990**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1961
Revised 1989
Edition N/A
Copyright 1990
Levelled N/A



Surveyed 1961
Revised 1985
Edition N/A
Copyright 1986
Levelled 1982

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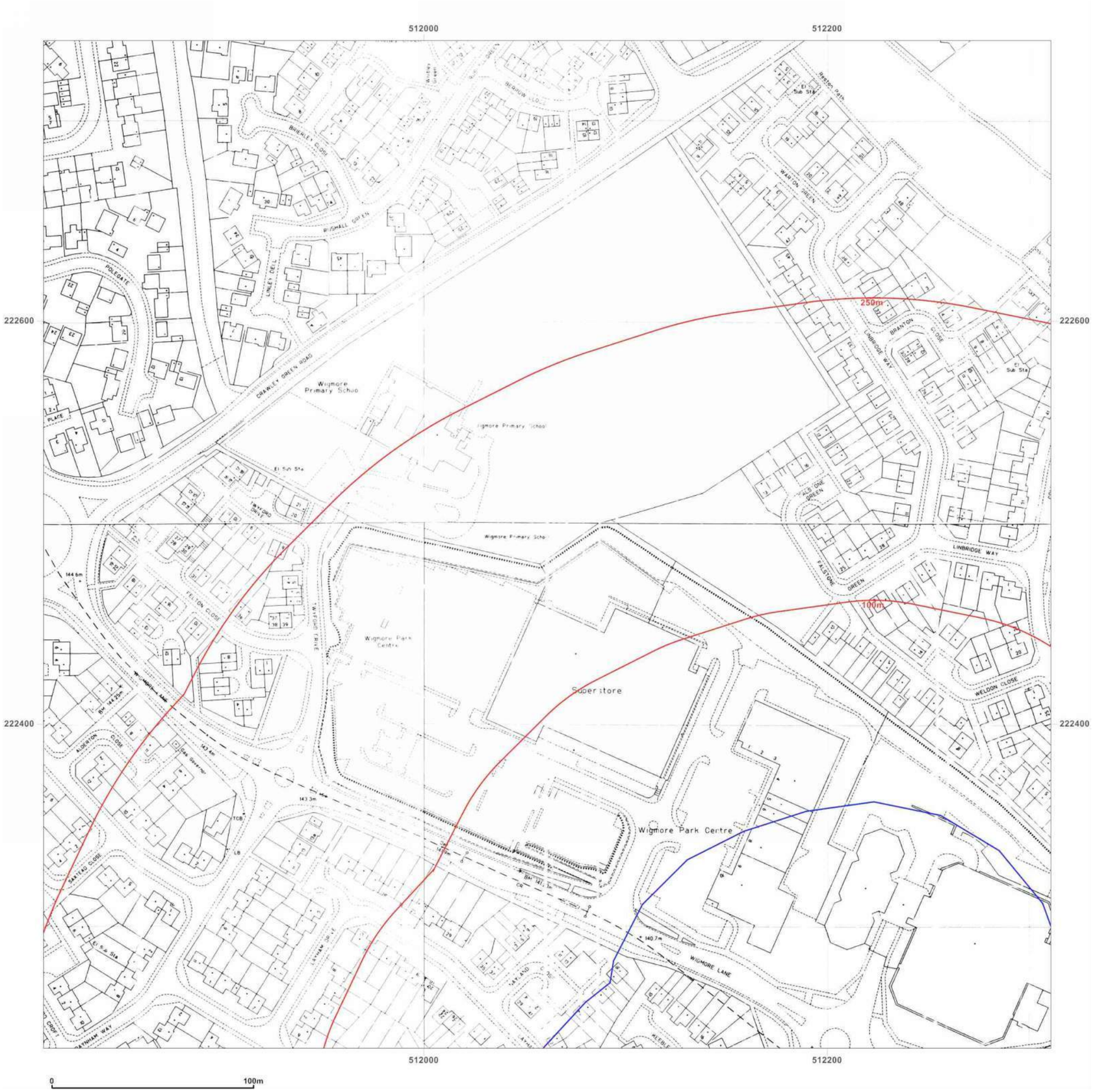

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
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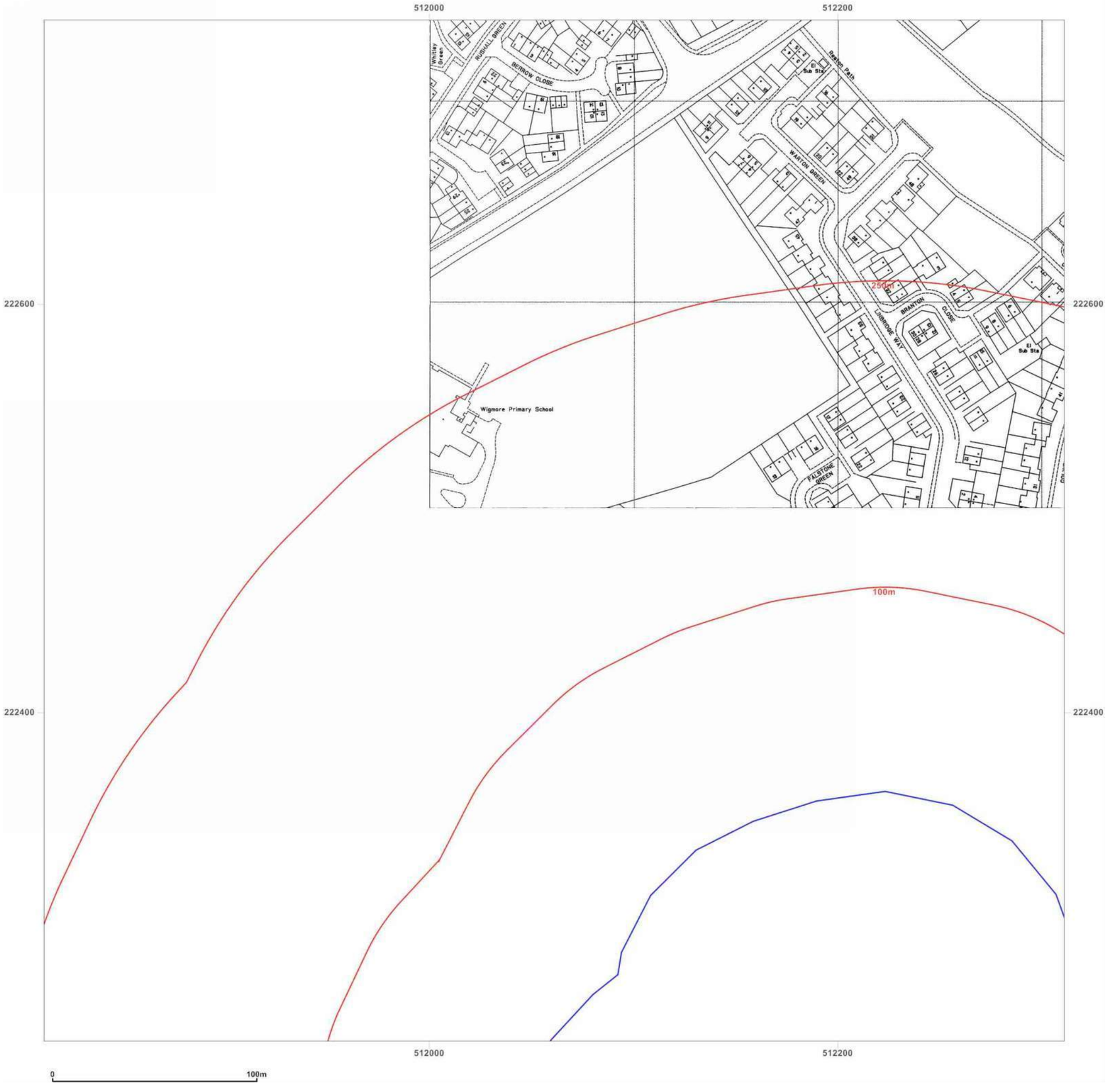

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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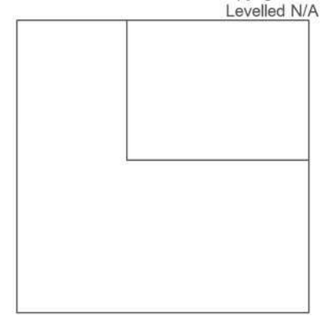
Surveyed 1994
Revised 1994
Edition N/A
Copyright 1994
Levelled N/A



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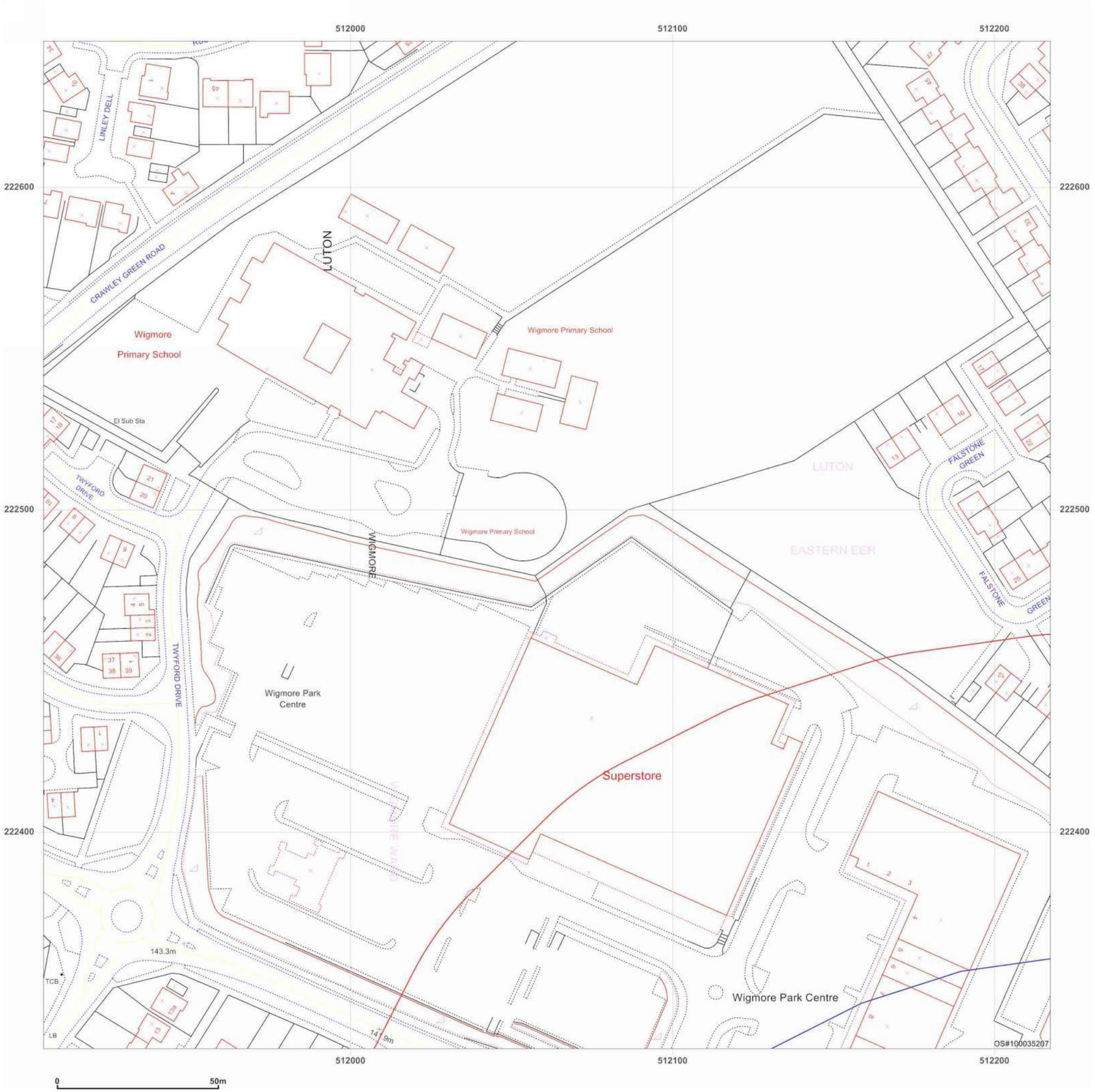

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_3_5
Grid Ref: 512061, 222489

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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2003

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Production date: 23 November 2020

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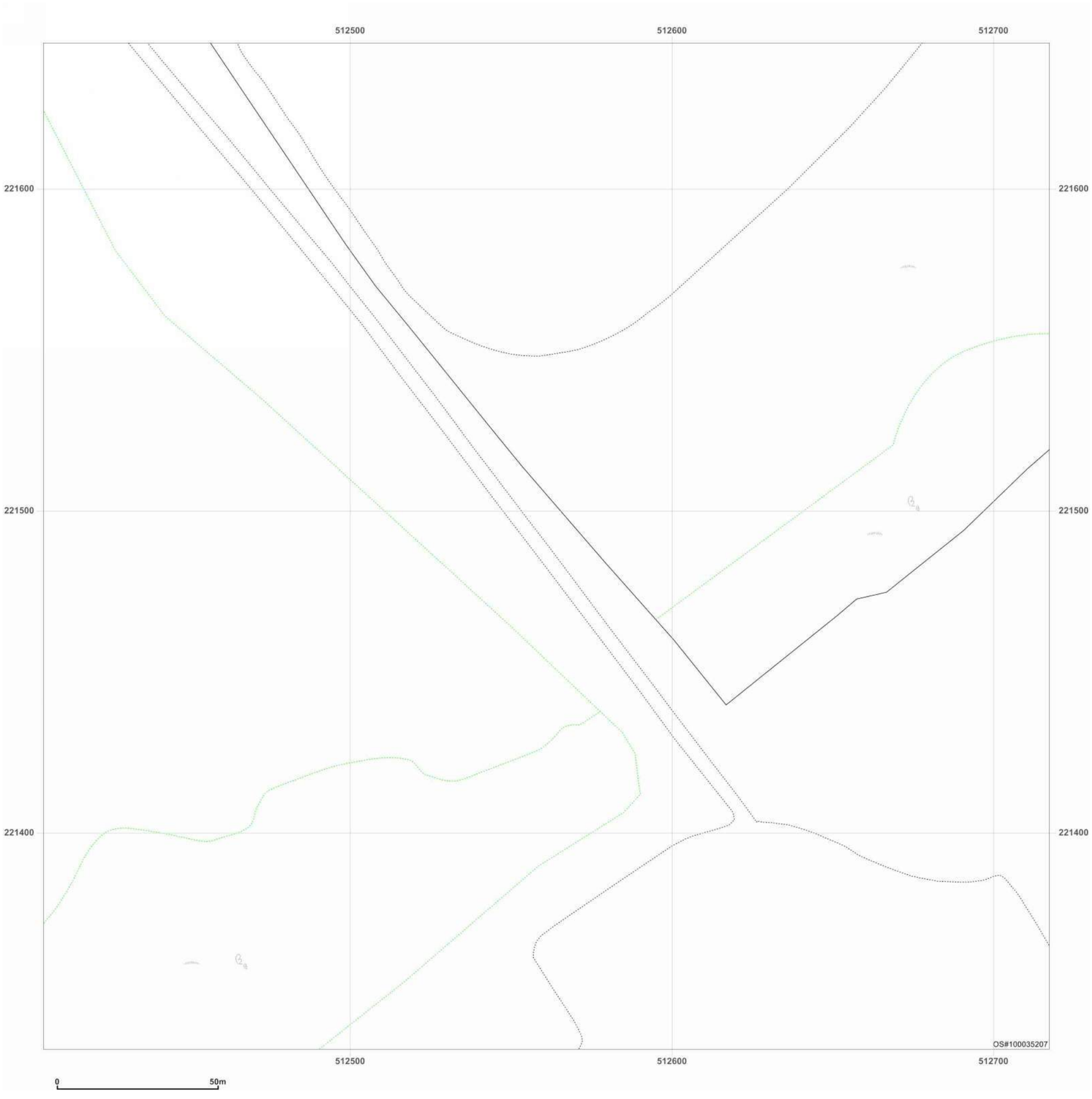

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_3
Grid Ref: 512561, 221489

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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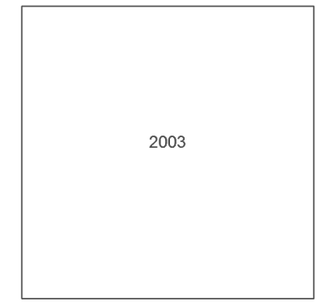

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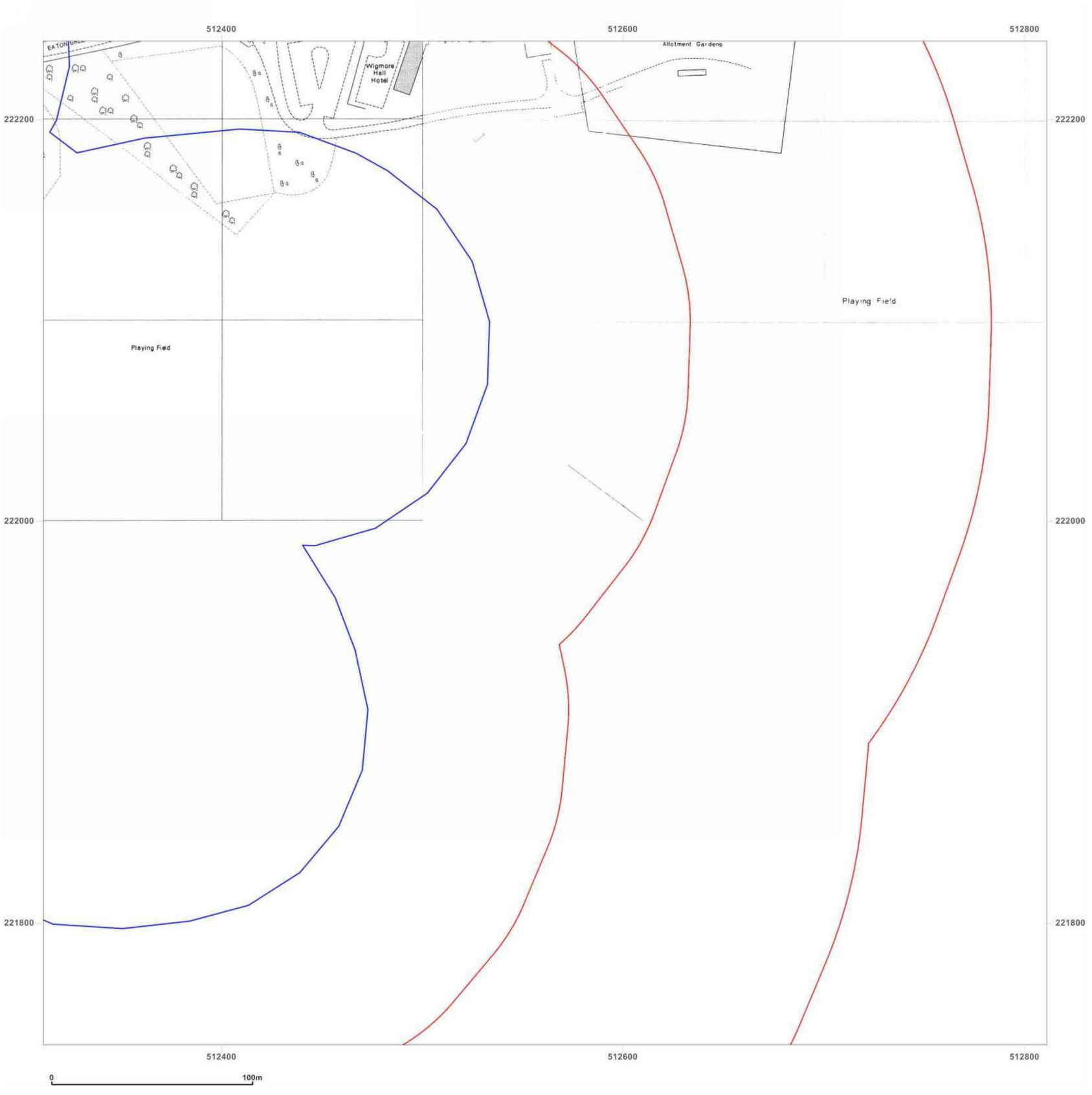

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_4
Grid Ref: 512561, 221989

Map Name: National Grid

Map date: **1989-1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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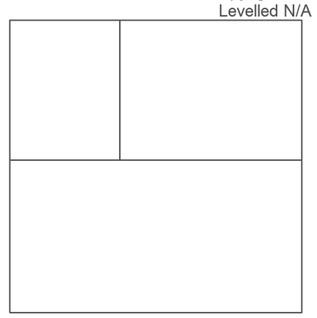
Surveyed 1988
Revised 1988
Edition N/A
Copyright 1989
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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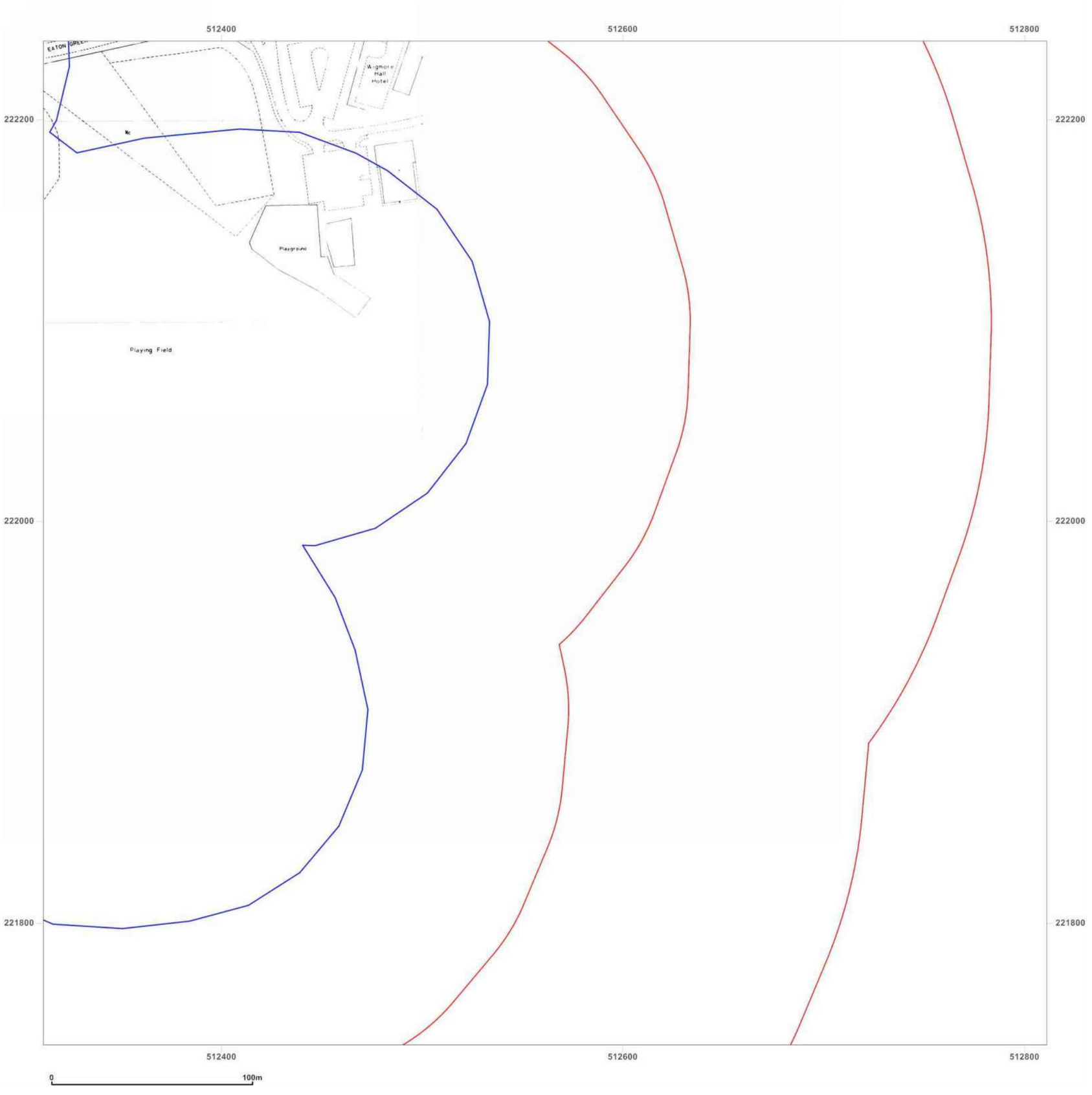

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_4
Grid Ref: 512561, 221989

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
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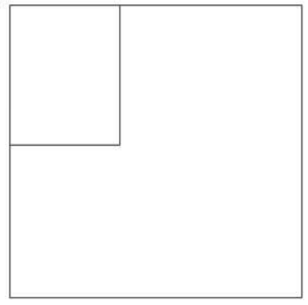
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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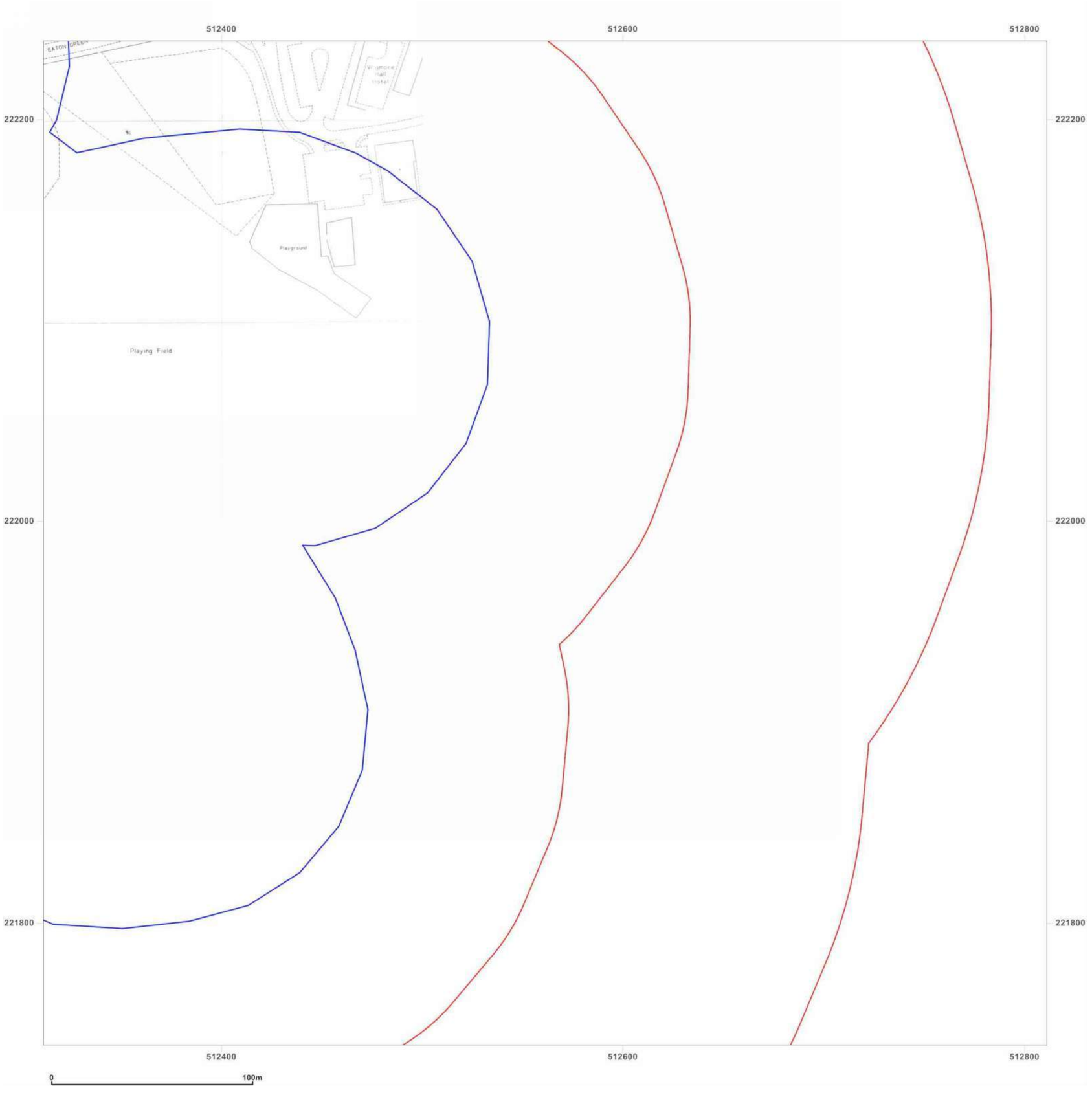

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_4
Grid Ref: 512561, 221989

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
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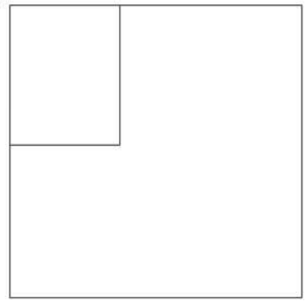
Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A



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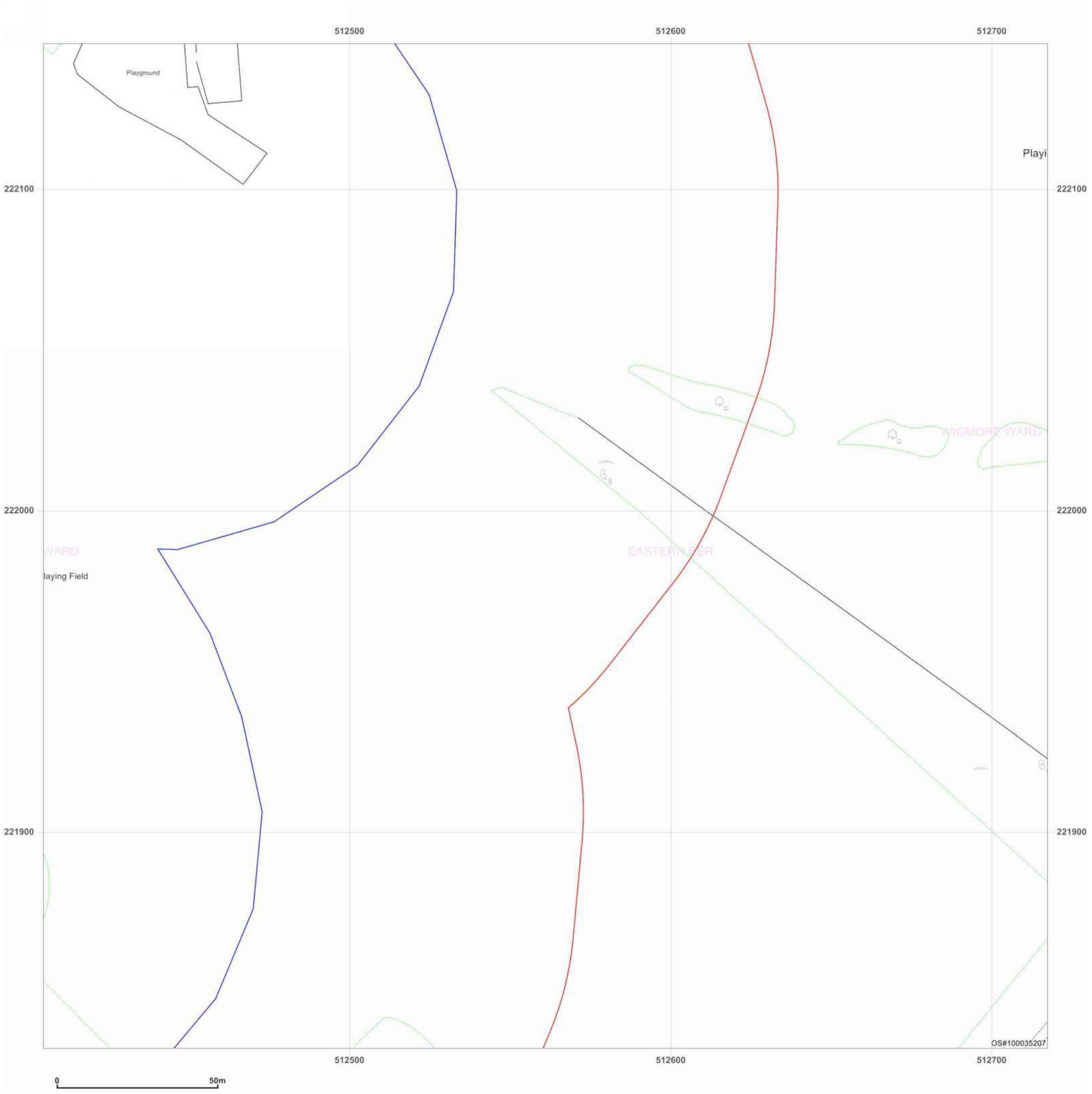

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_4
Grid Ref: 512561, 221989

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
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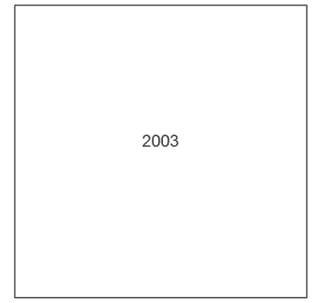

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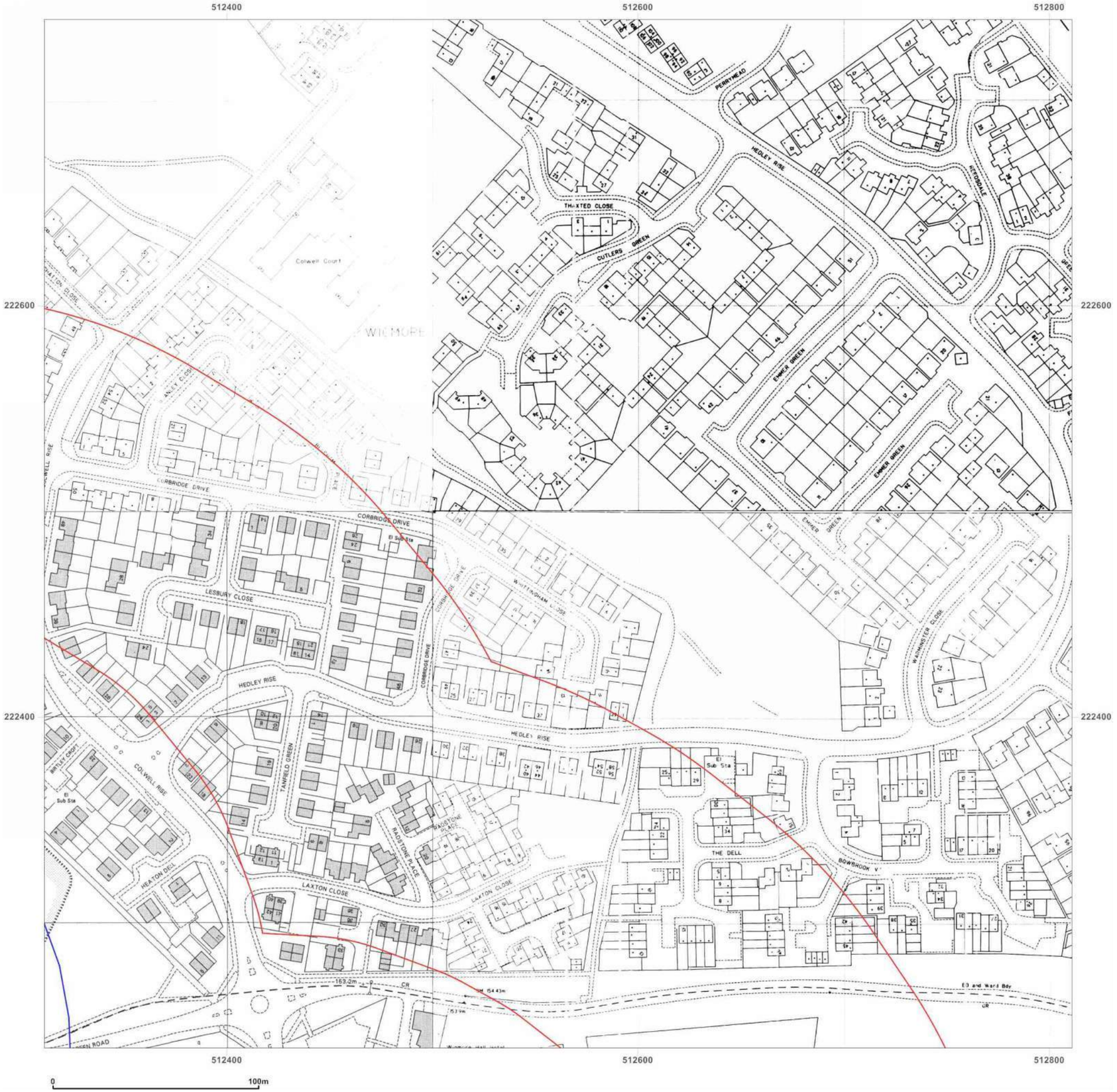

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_5
Grid Ref: 512561, 222489

Map Name: National Grid

Map date: **1989-1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1988
Revised 1988
Edition N/A
Copyright 1989
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_5
Grid Ref: 512561, 222489

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_5
Grid Ref: 512561, 222489

Map Name: National Grid

Map date: **1993-1994**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1993
Revised 1993
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
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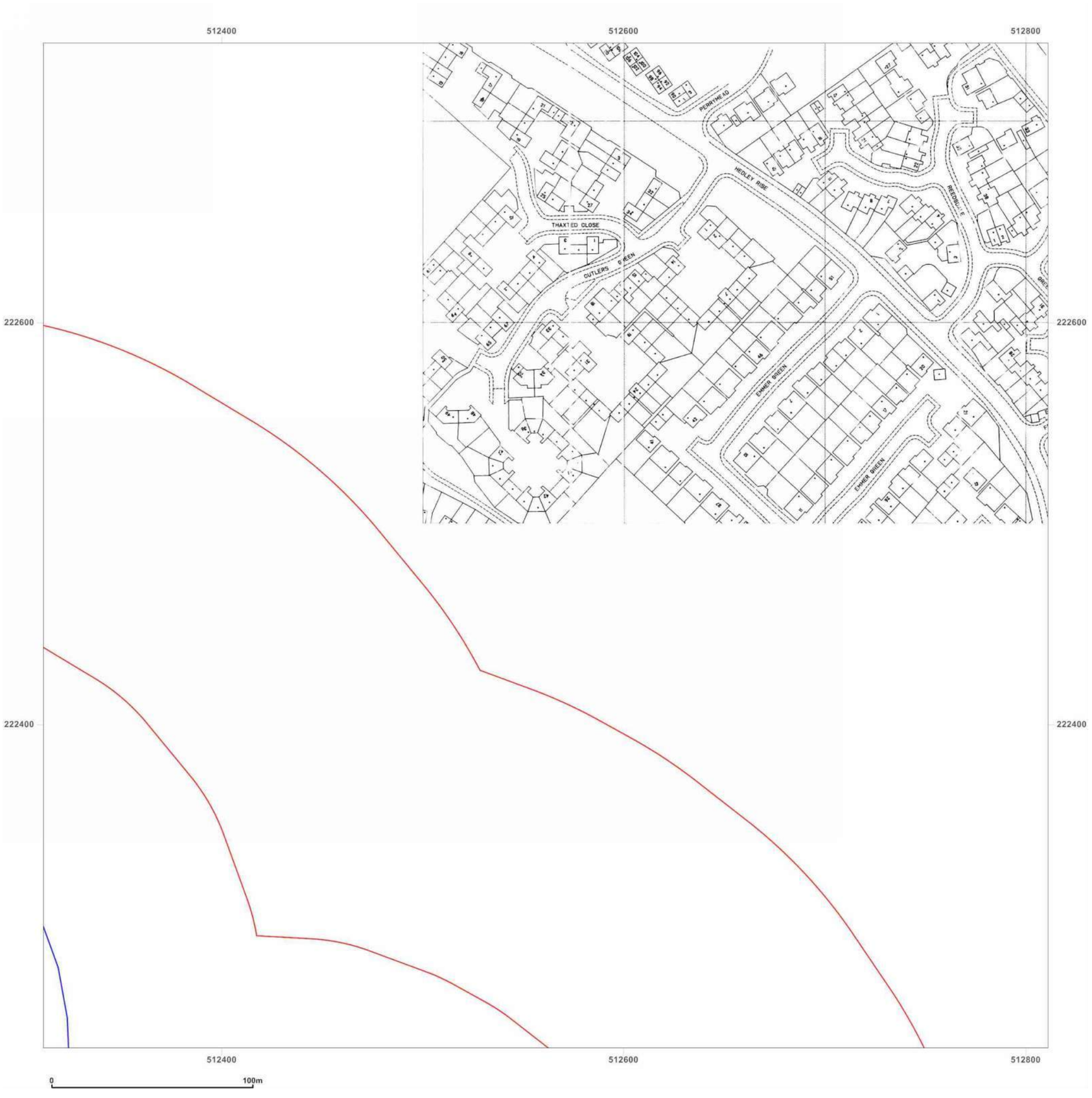

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_5
Grid Ref: 512561, 222489

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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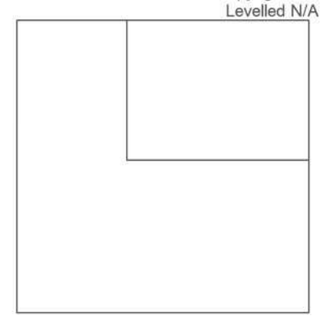
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A



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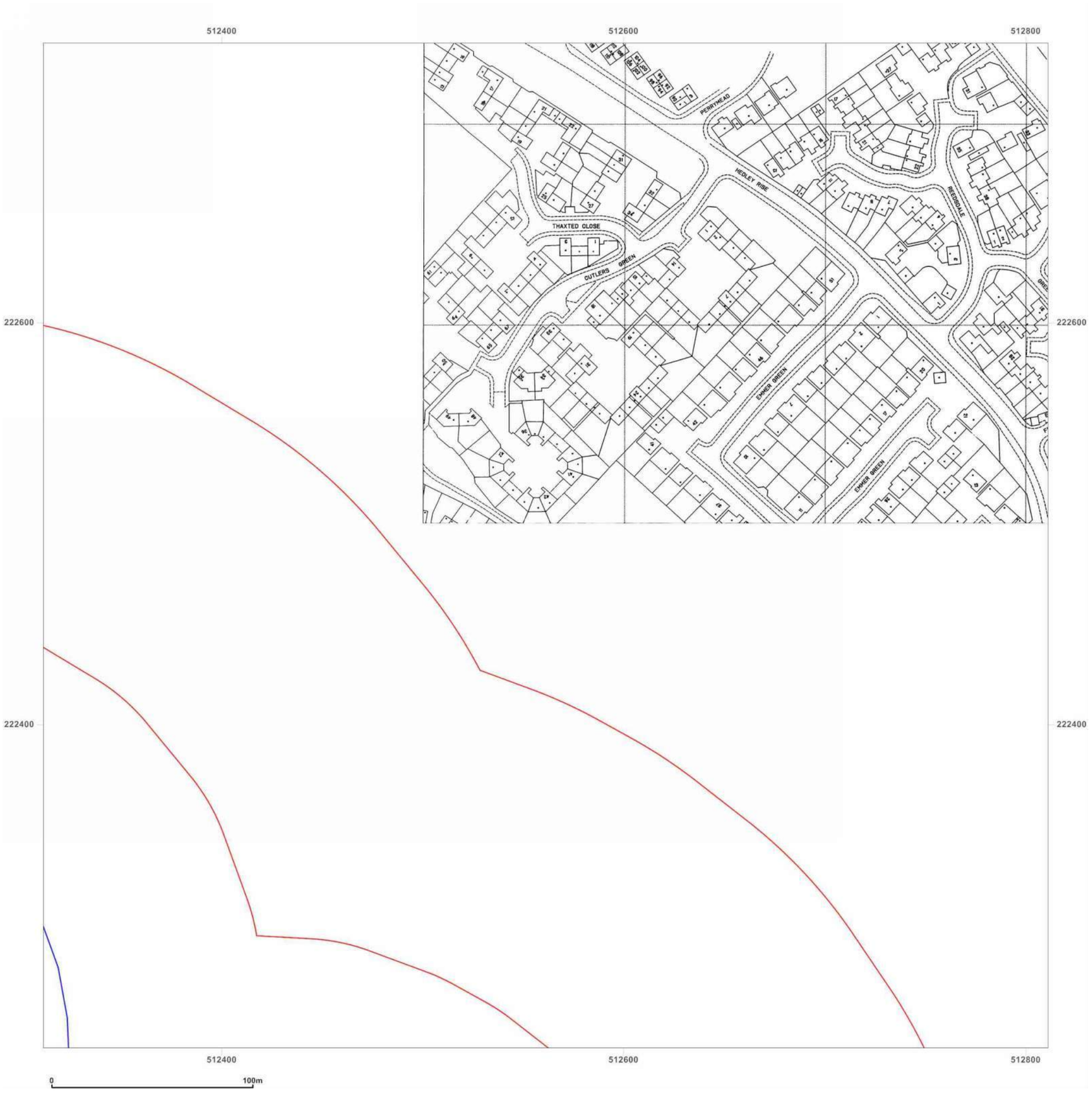

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_5
Grid Ref: 512561, 222489

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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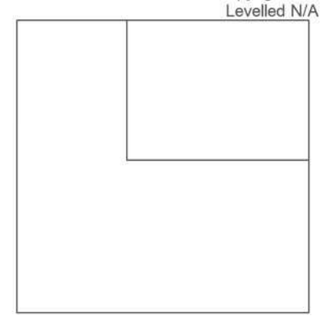
Surveyed 1994
Revised 1994
Edition N/A
Copyright 1994
Levelled N/A



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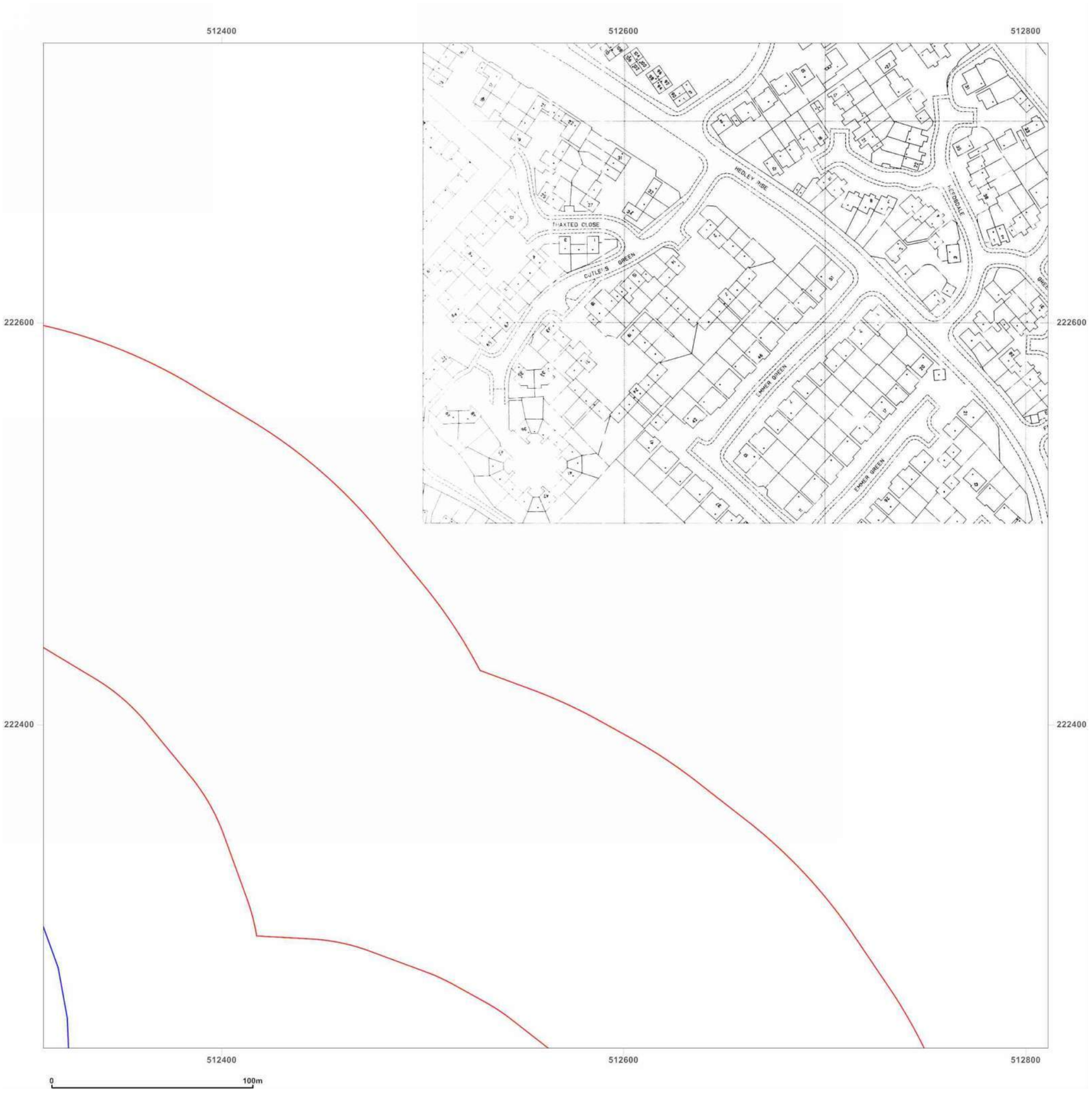

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_5
Grid Ref: 512561, 222489

Map Name: National Grid

Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

N
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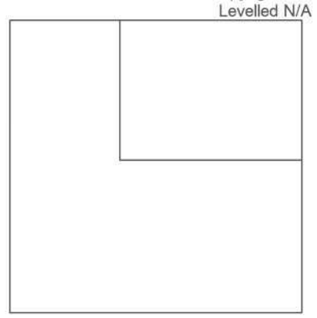
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1995
Levelled N/A



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Production date: 23 November 2020

Map legend available at:
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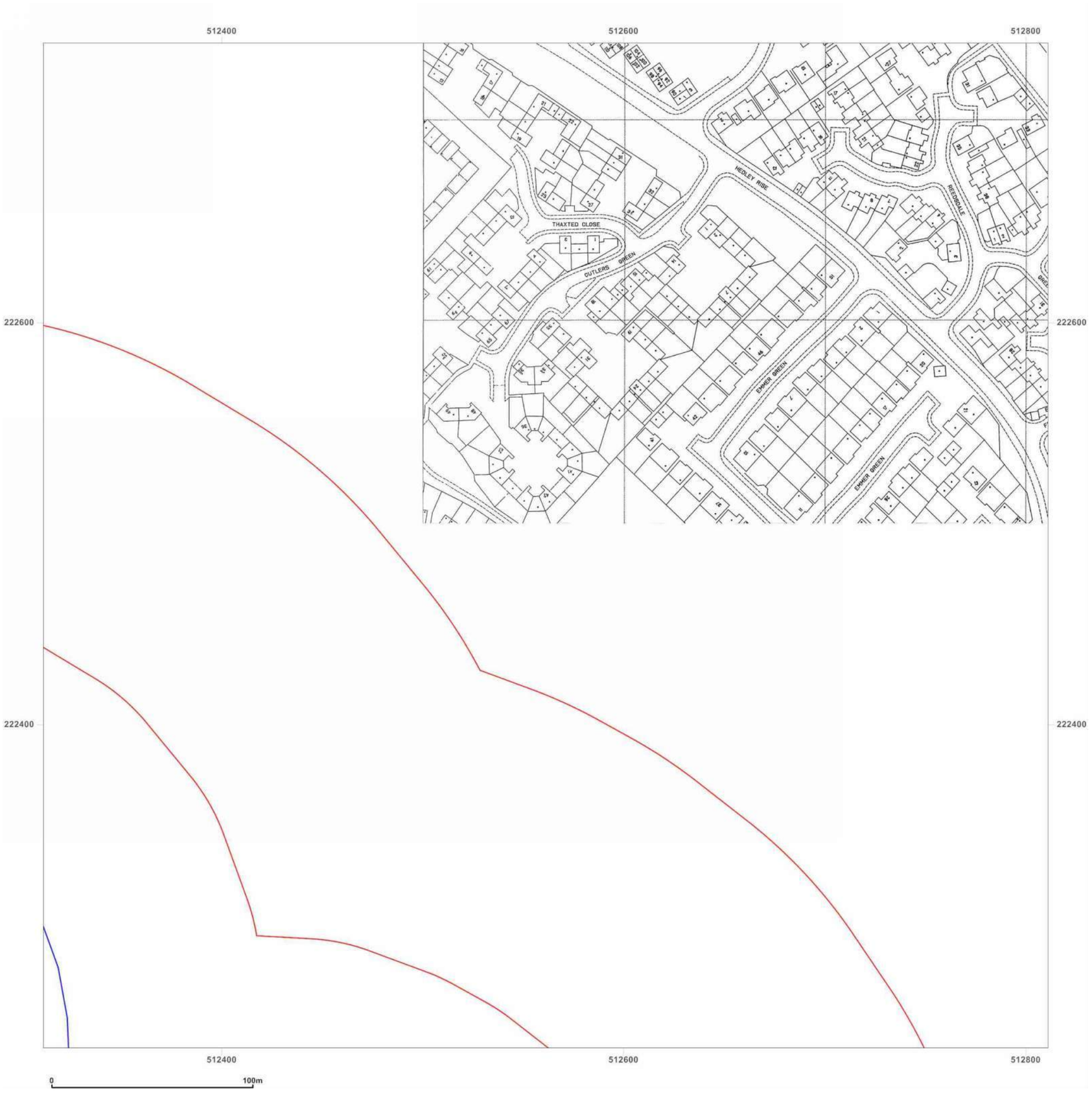


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_5
Grid Ref: 512561, 222489

Map Name: National Grid

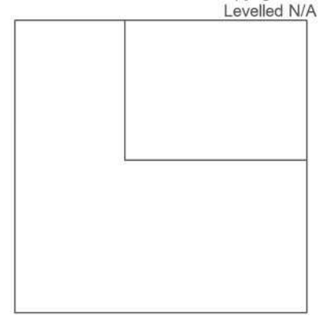
Map date: **1995**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1995
Revised 1995
Edition N/A
Copyright 1995
Levelled N/A



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Production date: 23 November 2020

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_1250scale_4_5
Grid Ref: 512561, 222489

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

N
W E
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2003

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Production date: 23 November 2020

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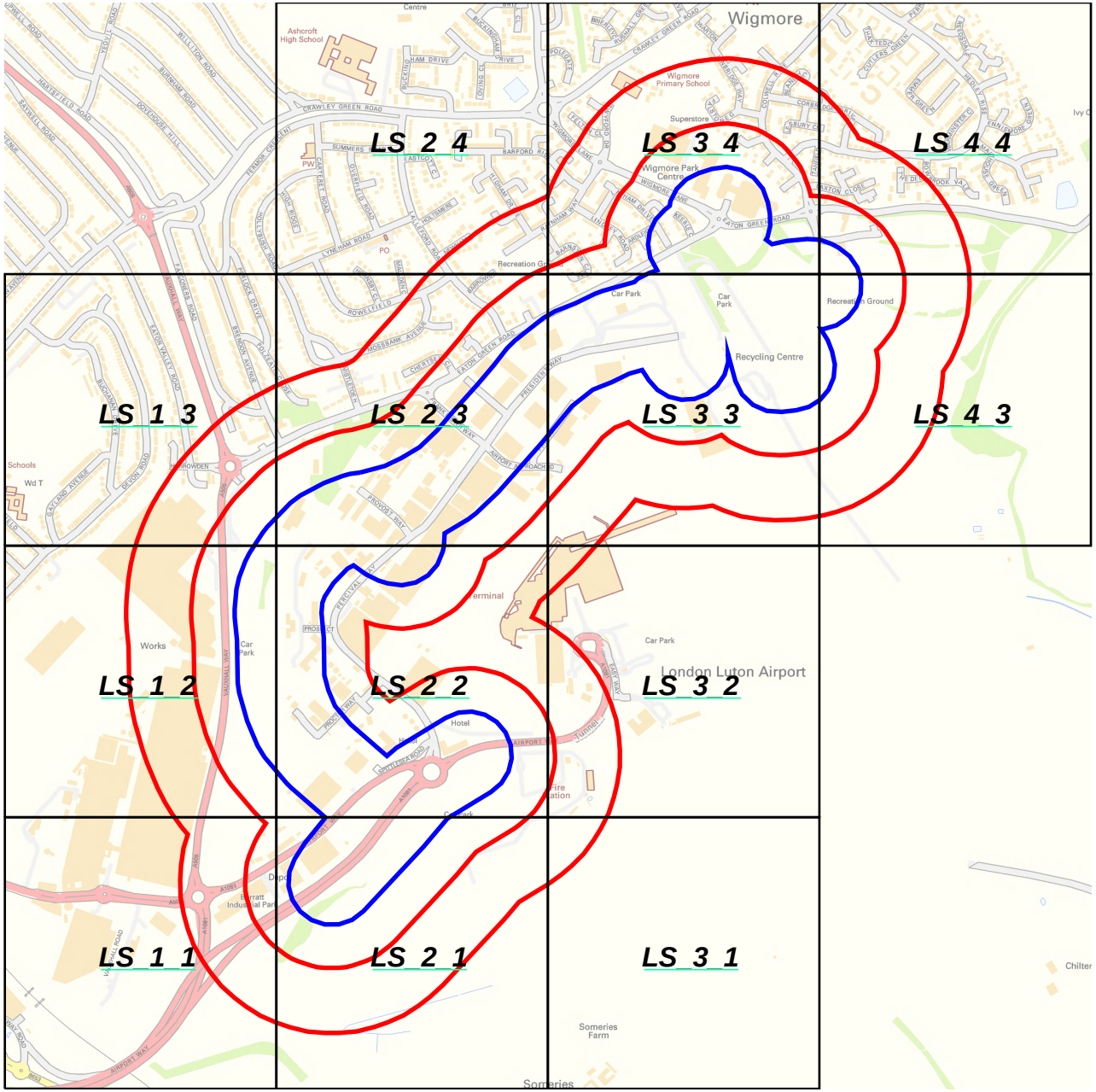
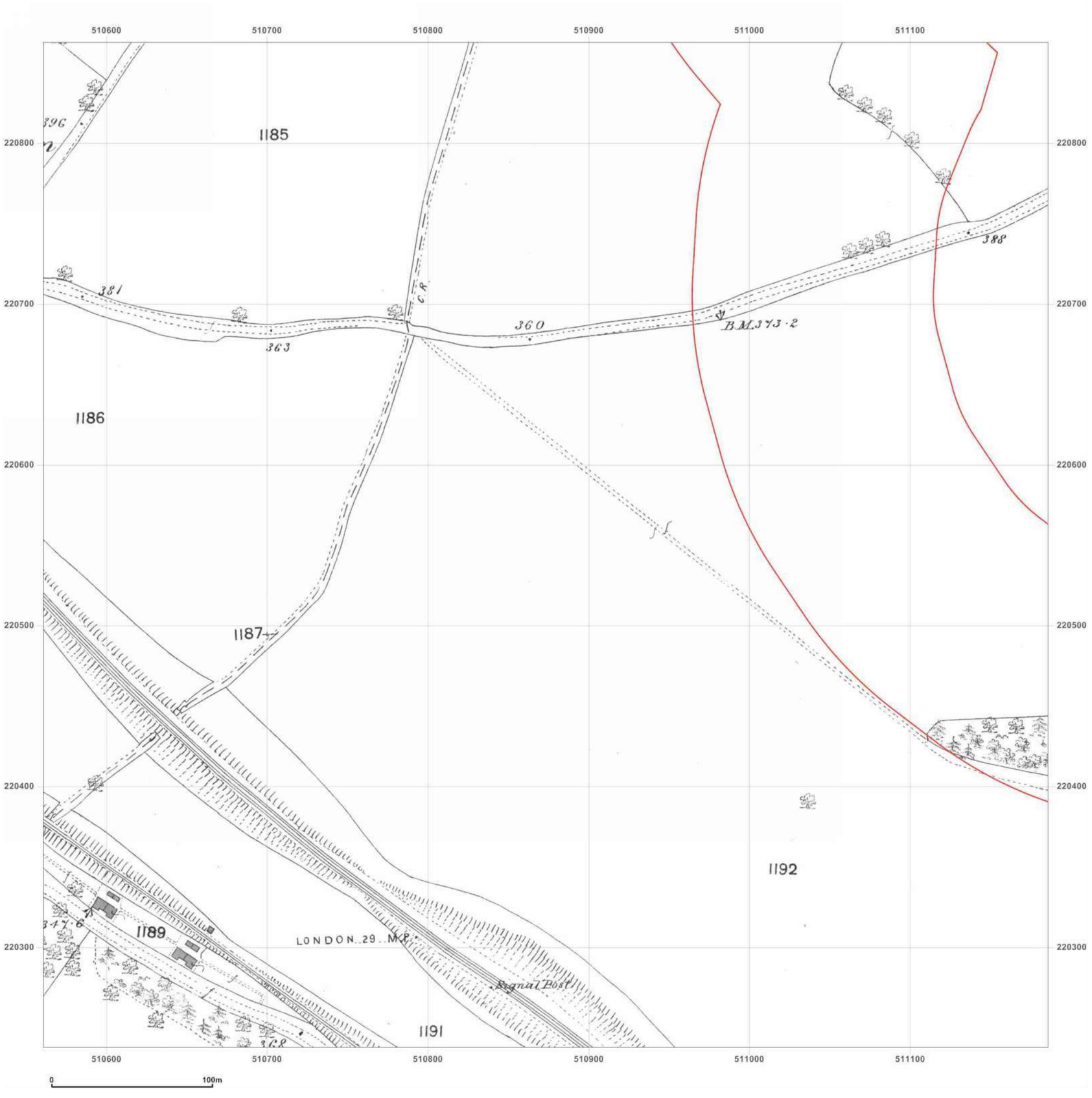


Groundsure INSIGHTS

N
W E
S

1:2500 Scale Grid Index



Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_1
Grid Ref: 510873, 220550

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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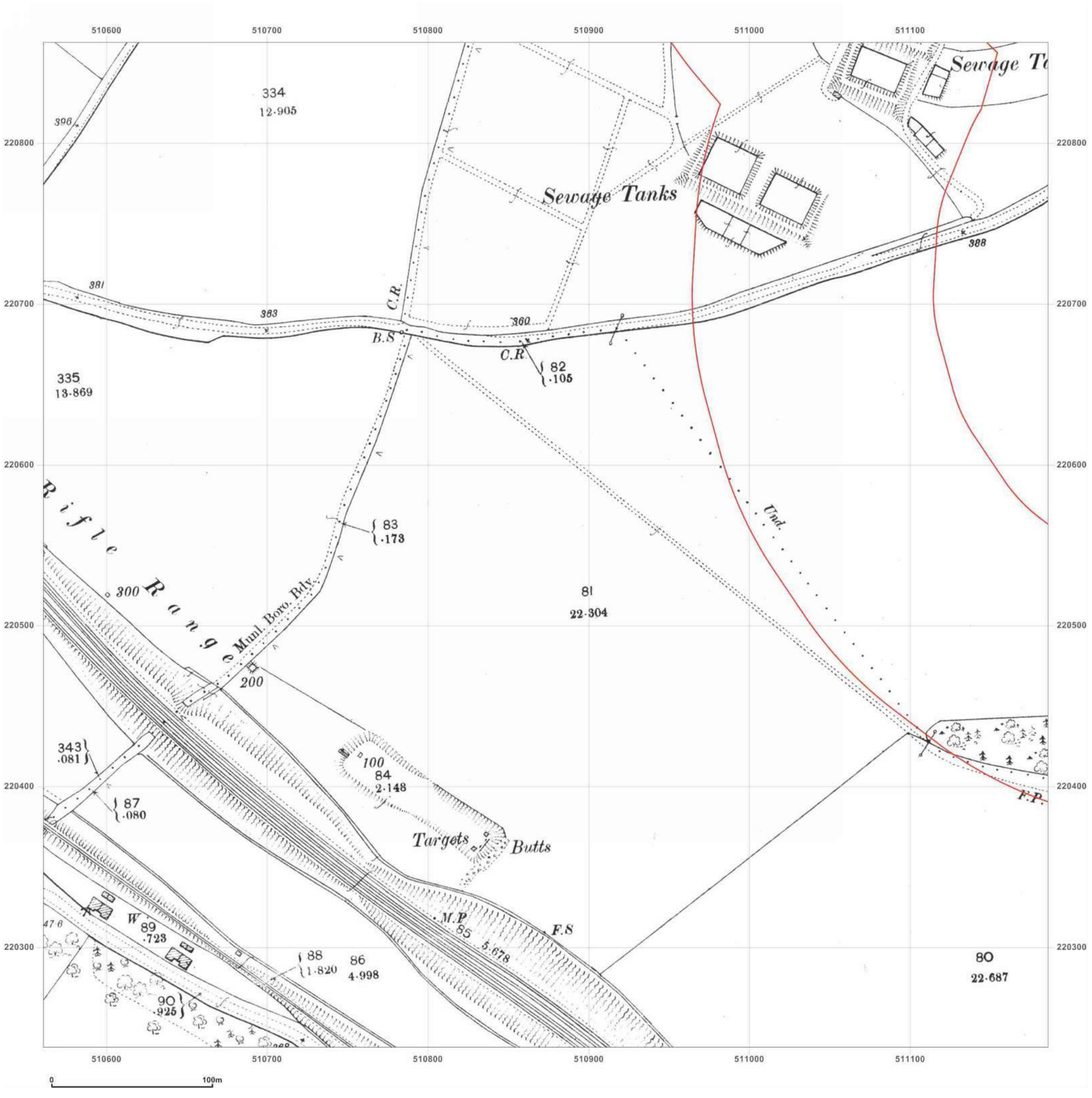

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_1
Grid Ref: 510873, 220550

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_1
Grid Ref: 510873, 220550

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 23 November 2020

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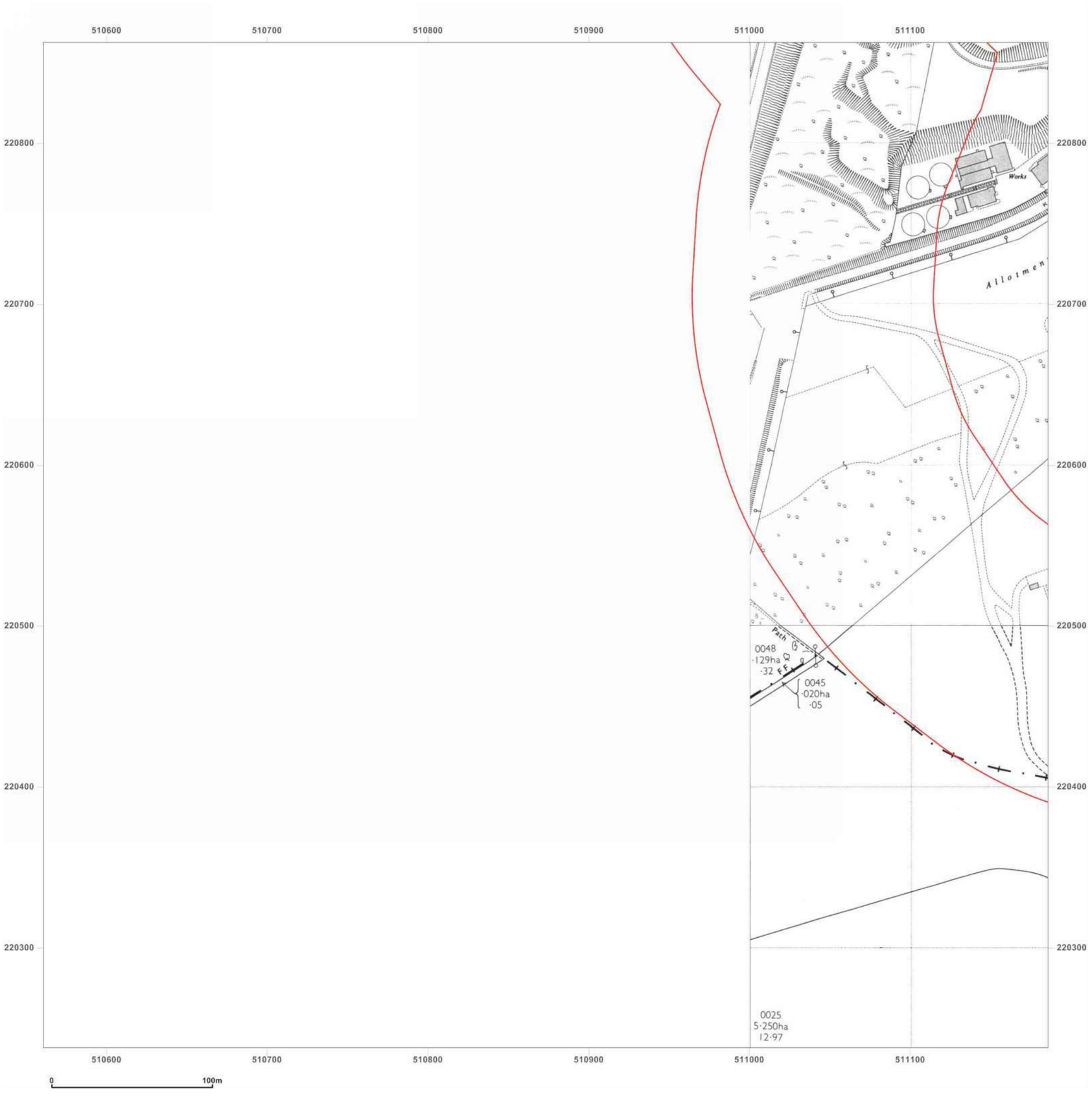


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_1
Grid Ref: 510873, 220550

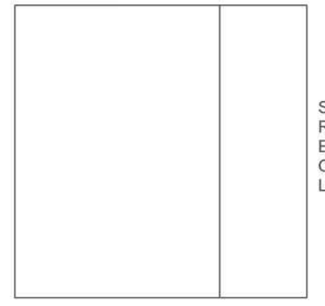
Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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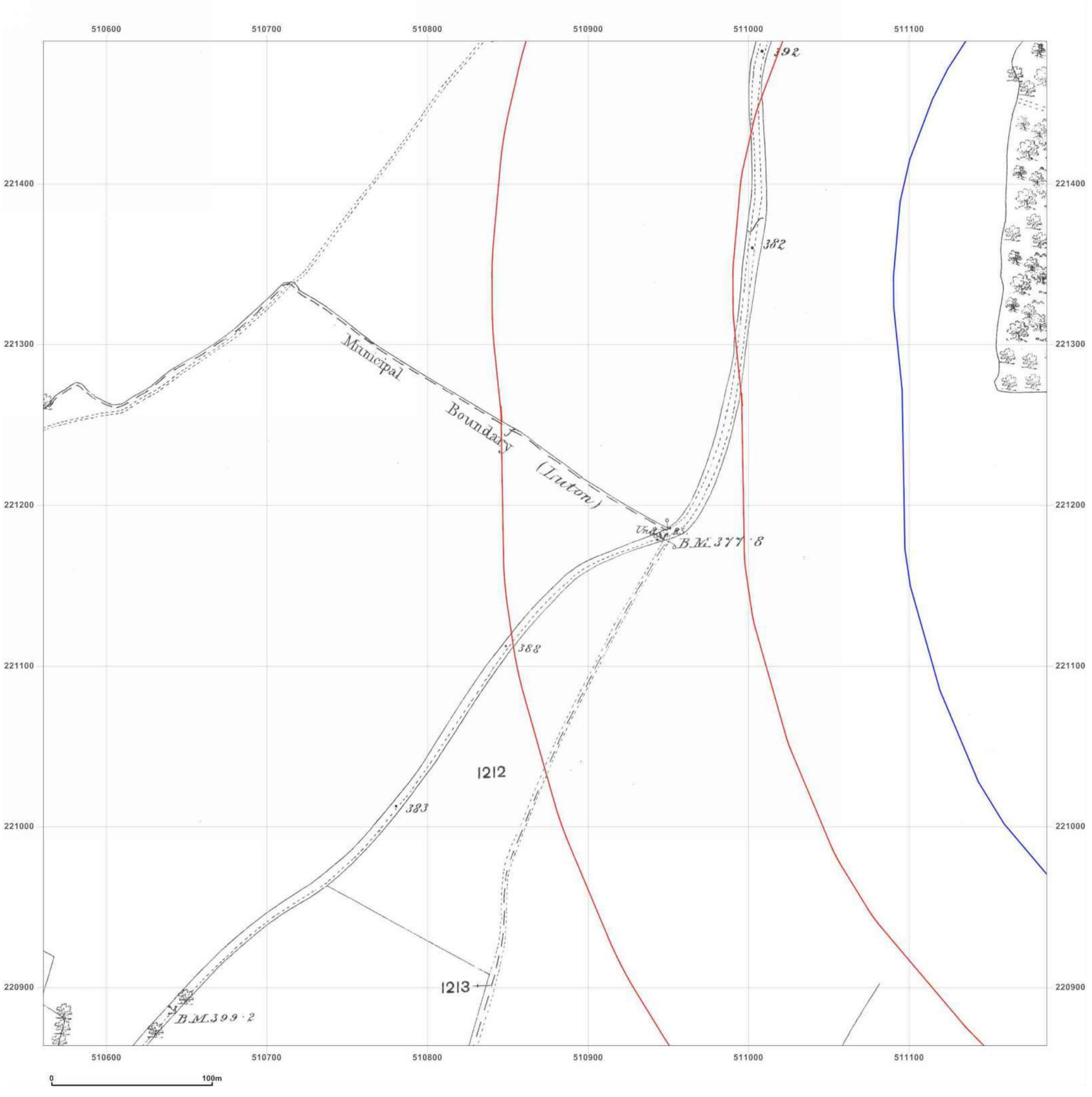

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_2
Grid Ref: 510873, 221176

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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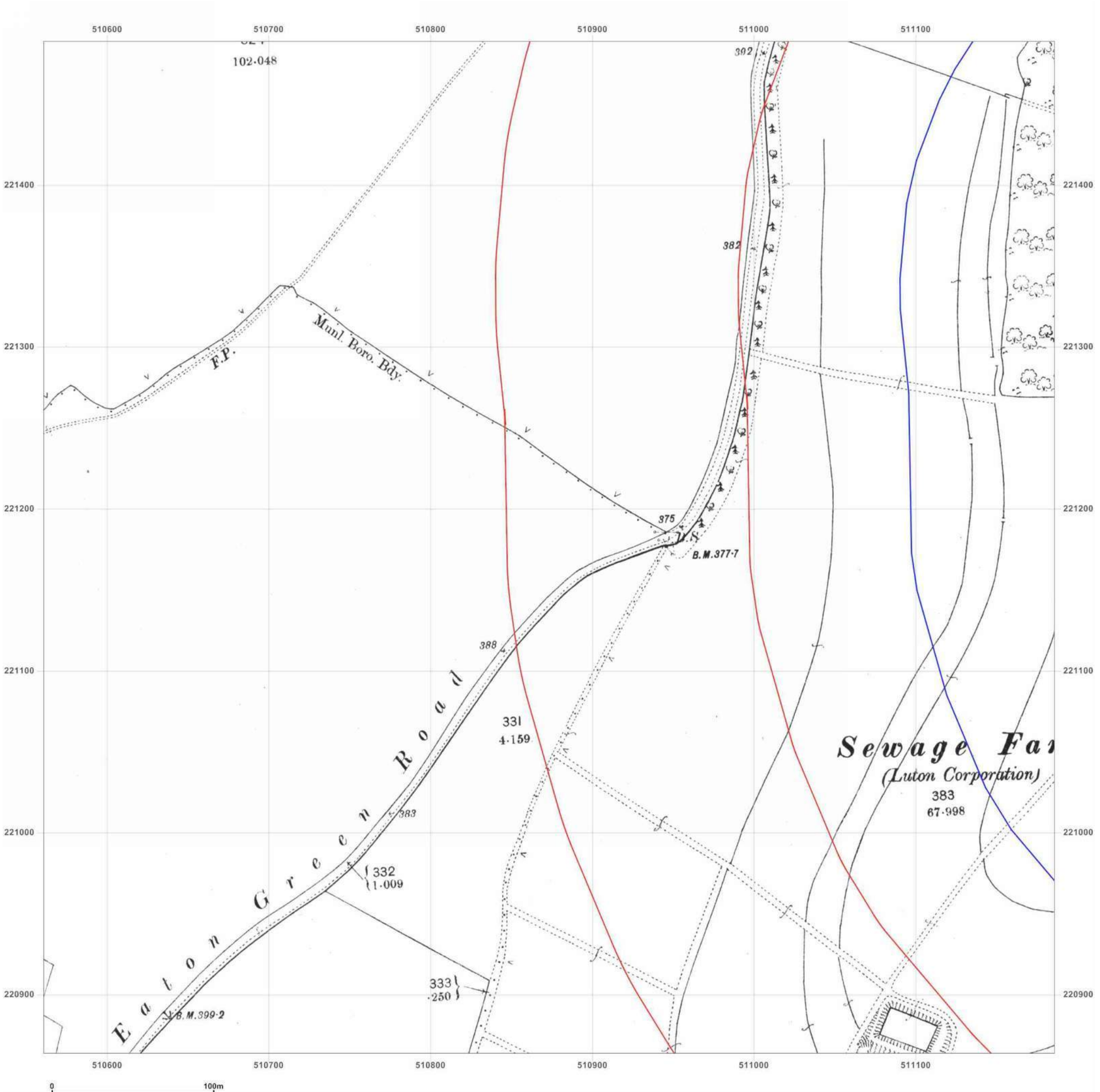

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_2
Grid Ref: 510873, 221176

Map Name: County Series
Map date: **1901**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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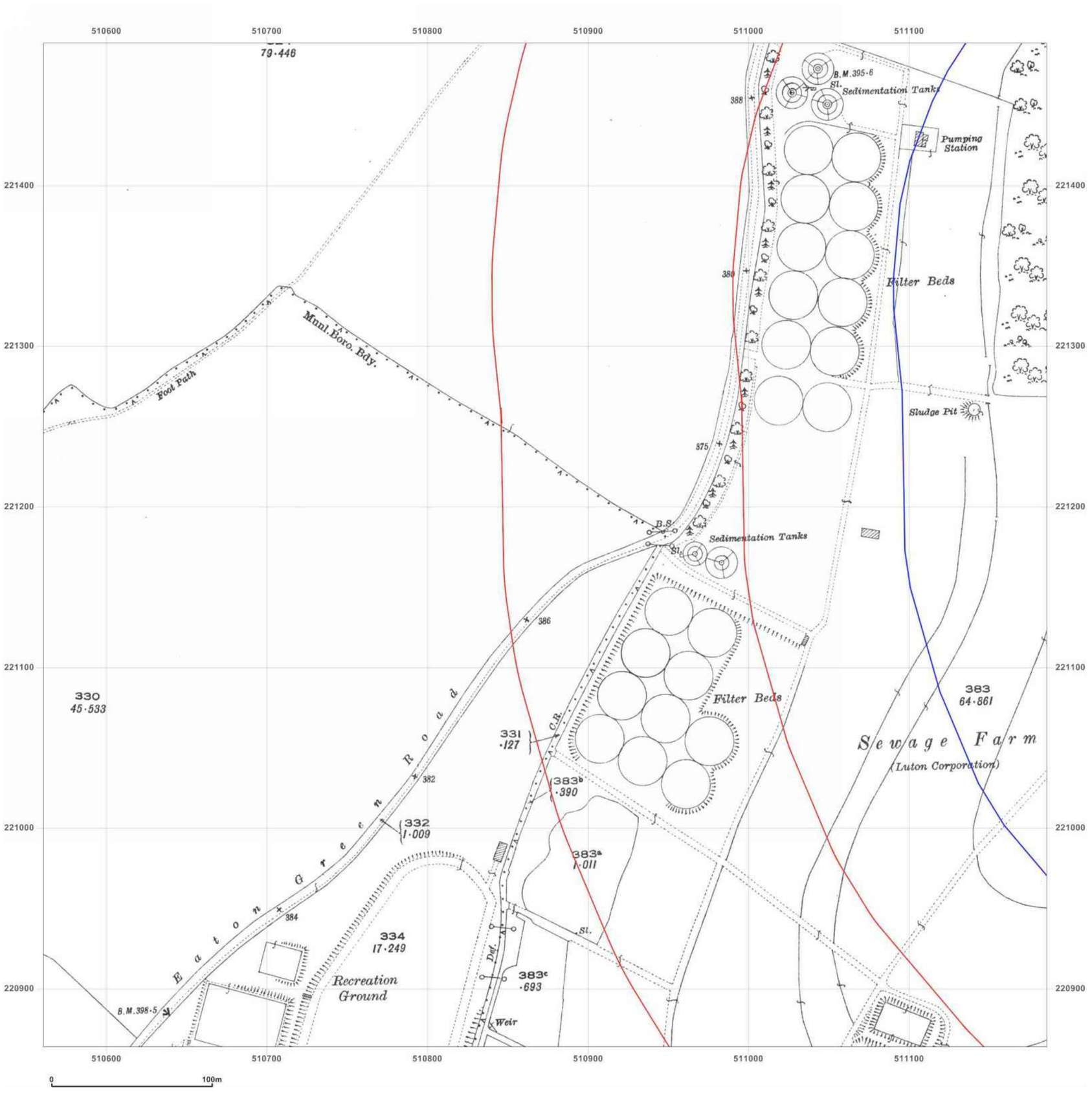

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_2
Grid Ref: 510873, 221176

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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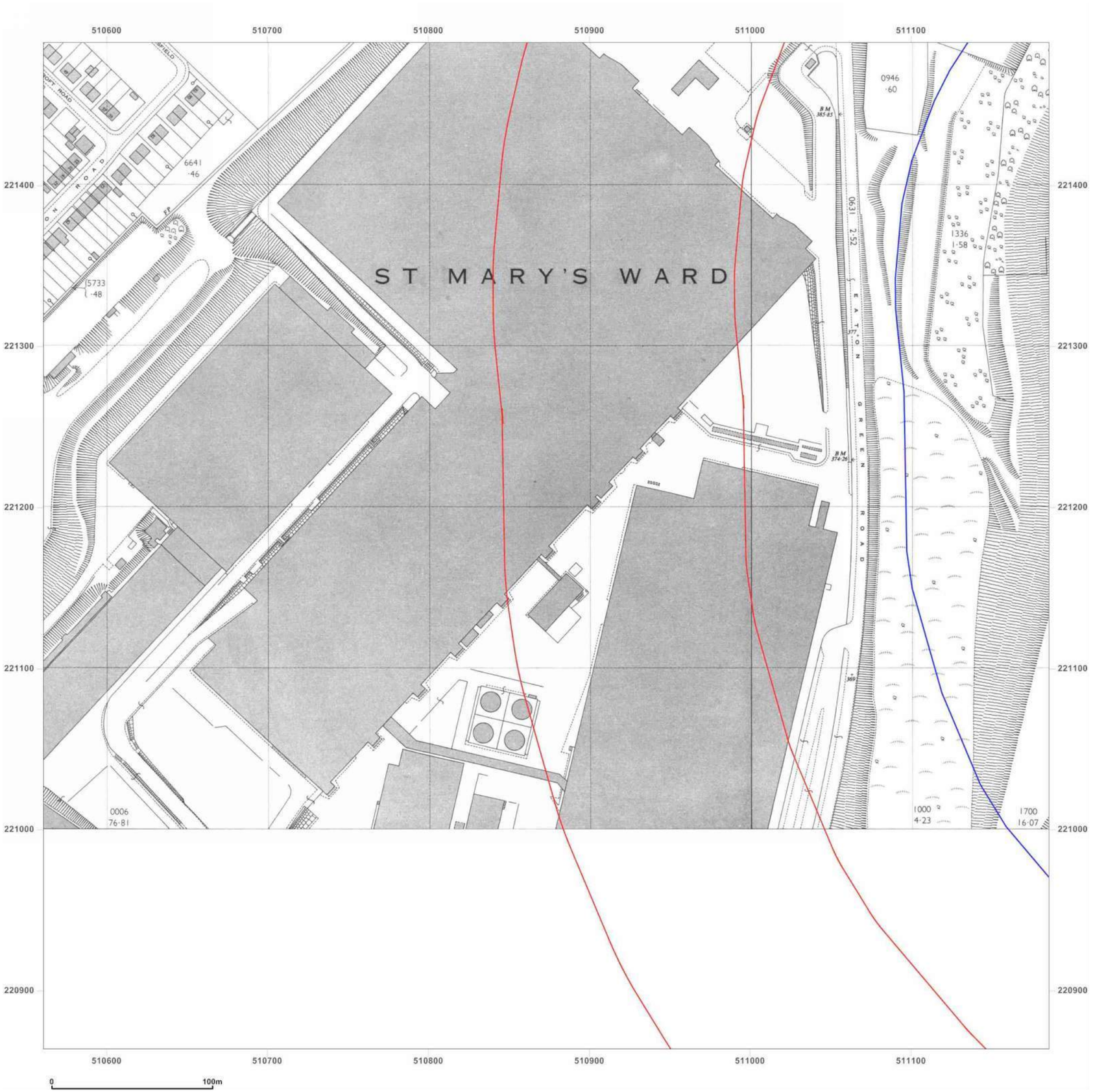

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_2
Grid Ref: 510873, 221176

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958

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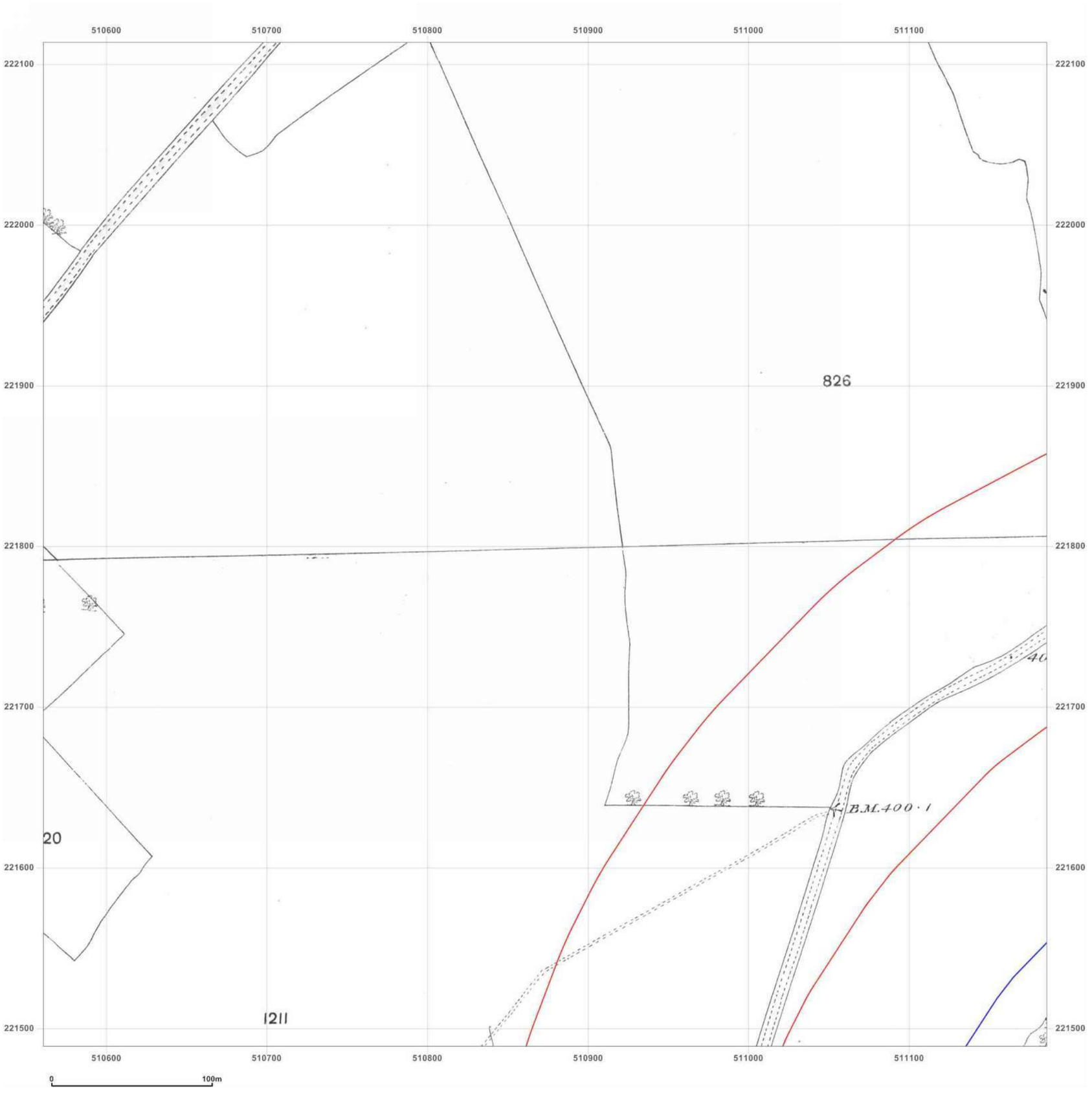


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_3
Grid Ref: 510873, 221801

Map Name: County Series

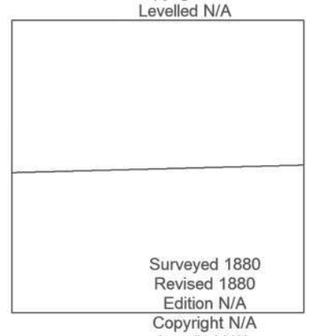
Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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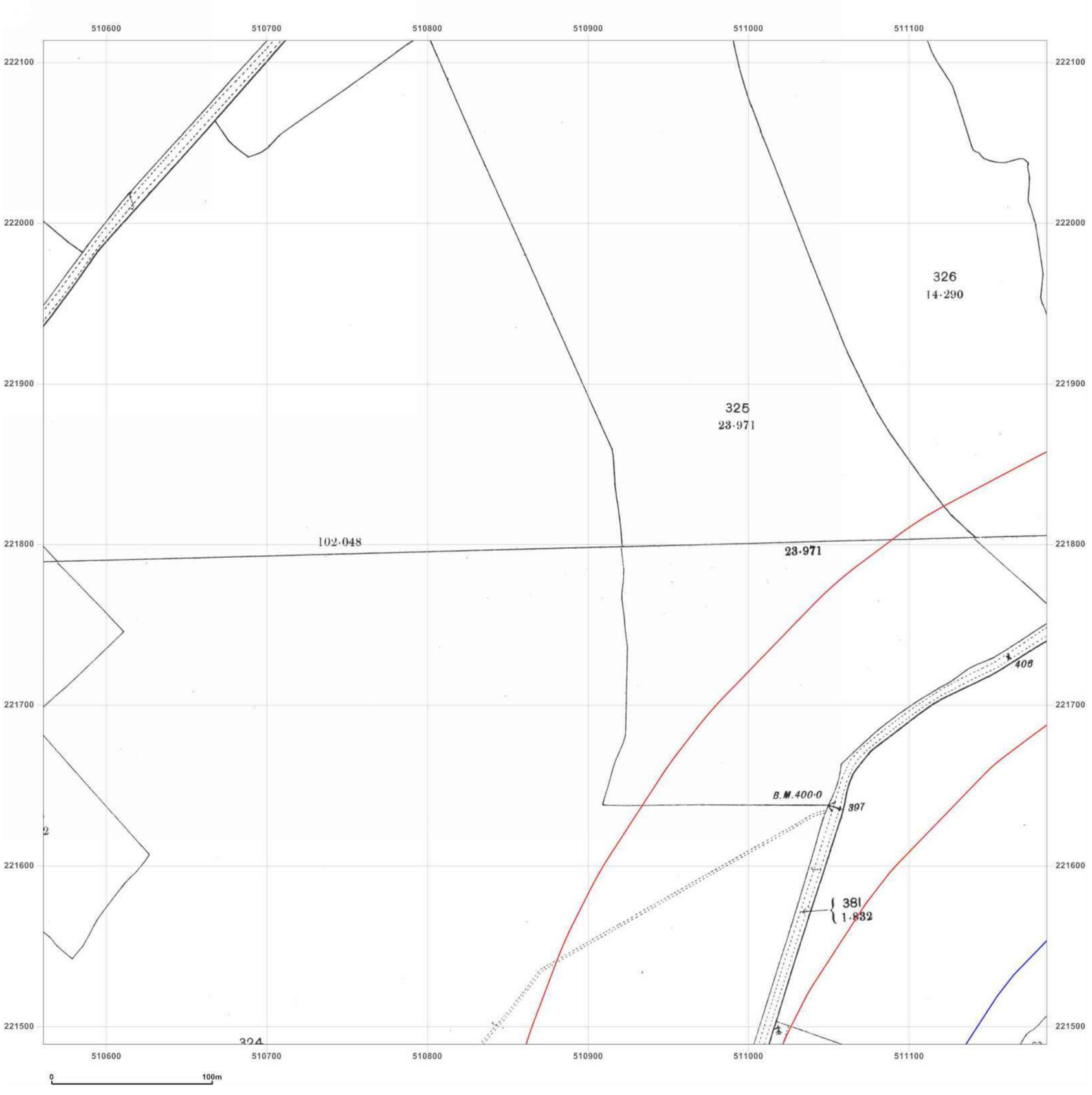


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_3
Grid Ref: 510873, 221801

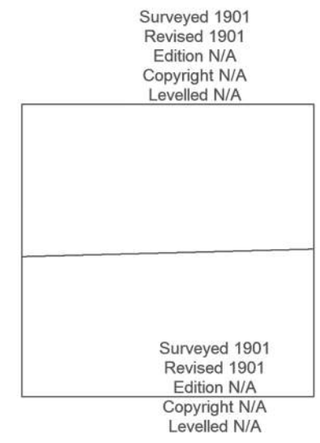
Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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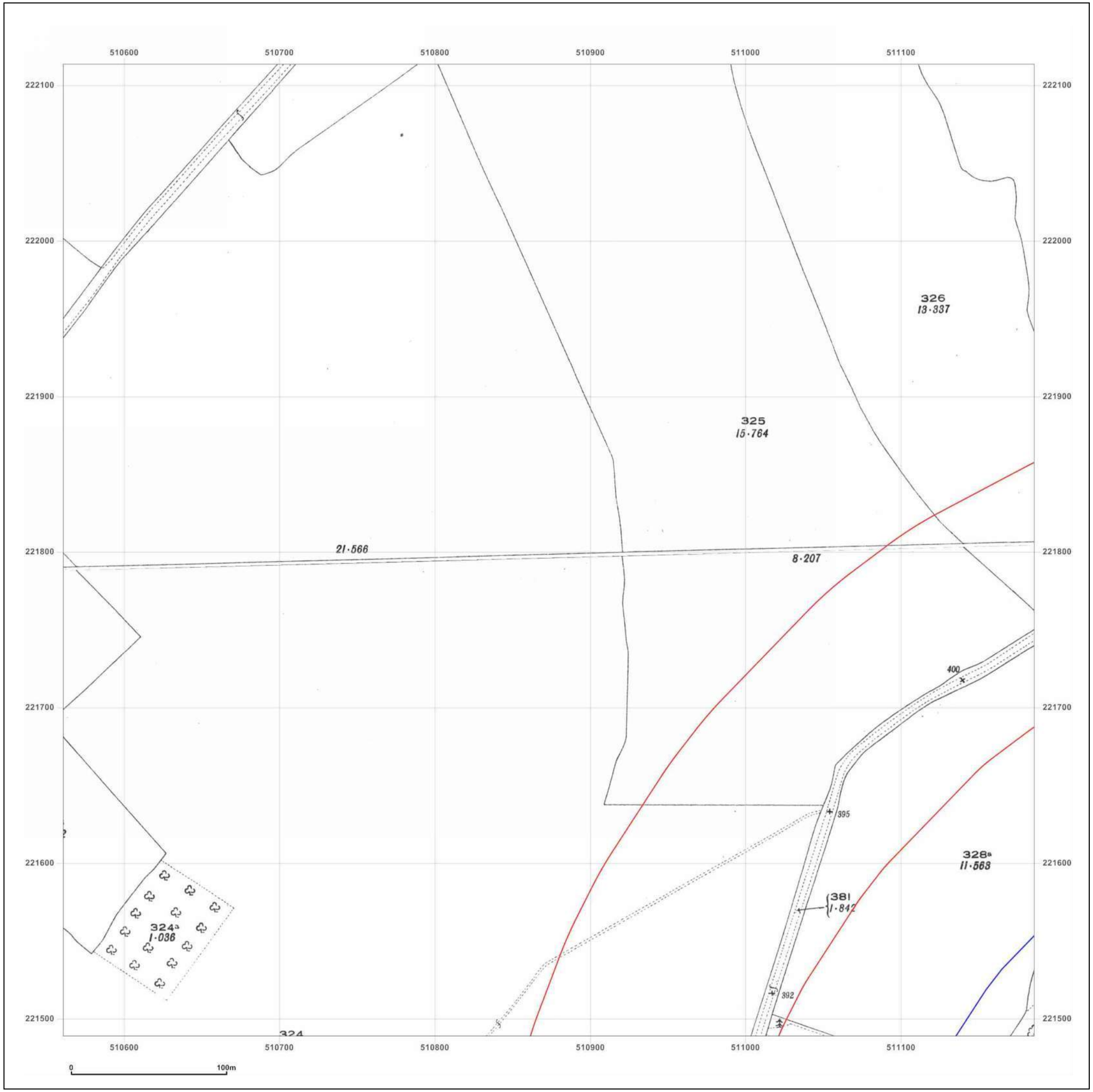


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_3
Grid Ref: 510873, 221801

Map Name: County Series

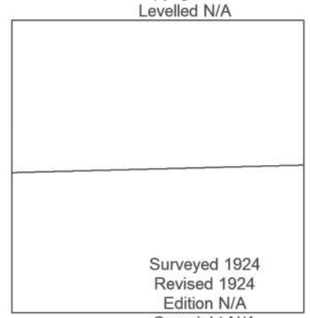
Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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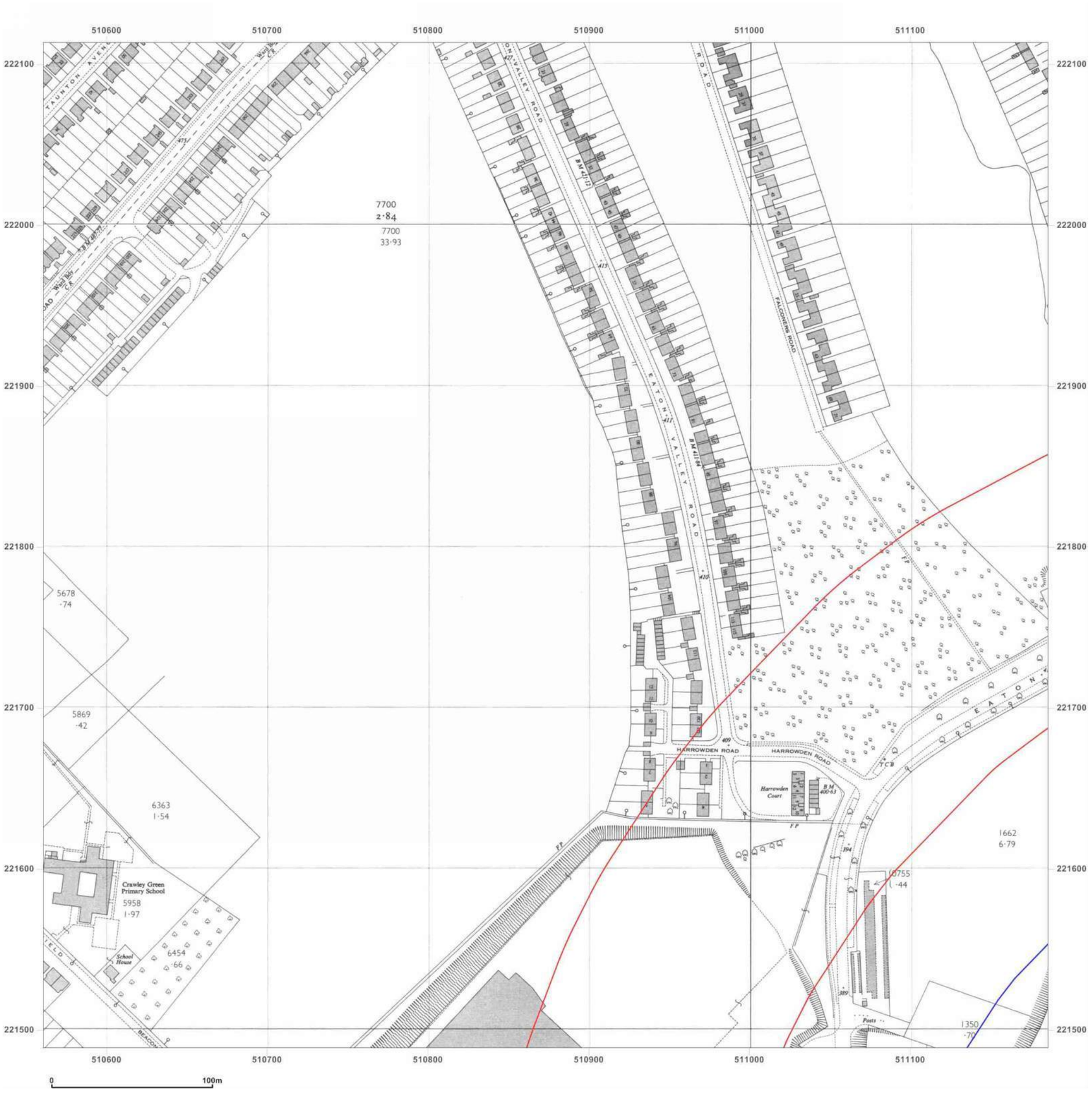

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_1_3
Grid Ref: 510873, 221801

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1958

Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958

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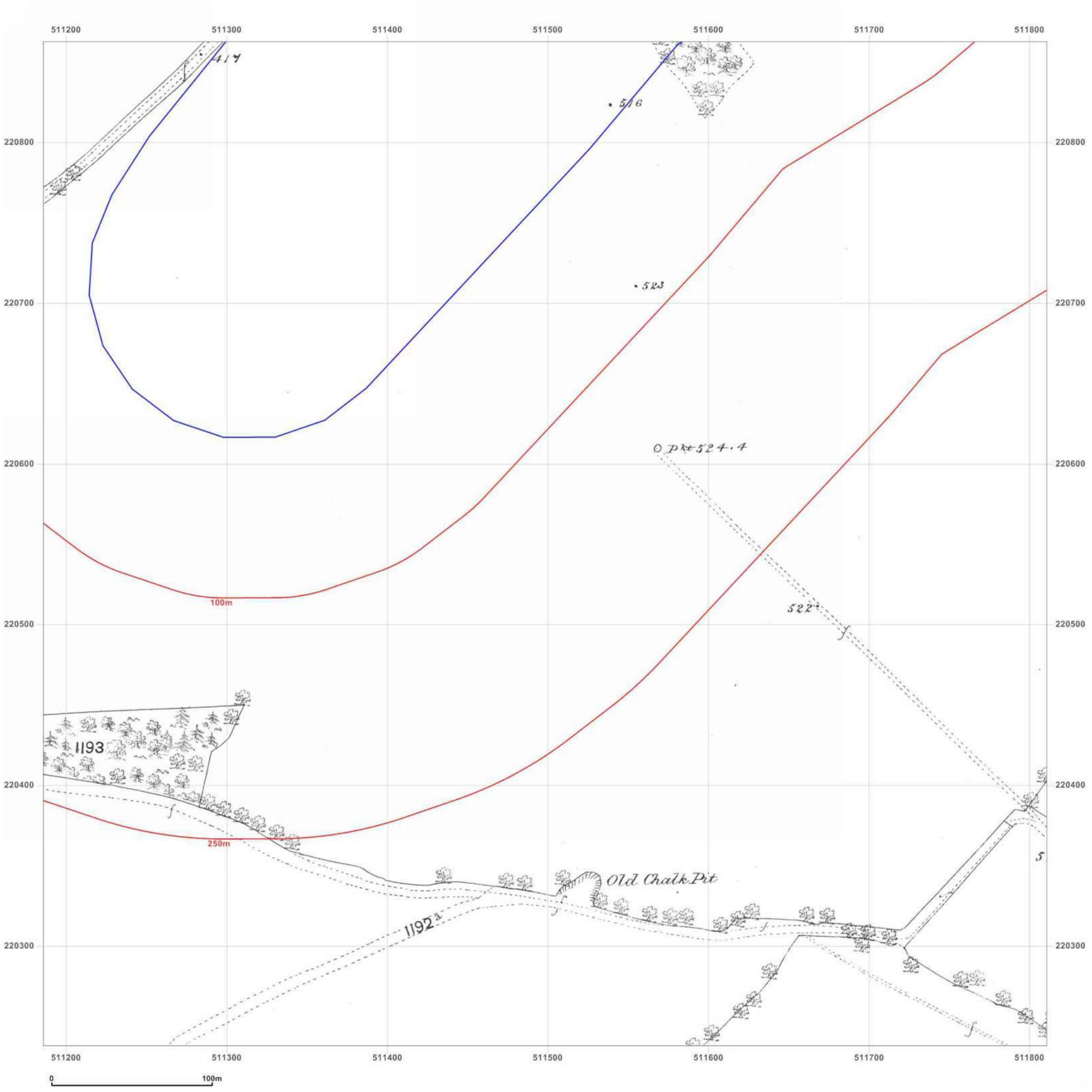

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_1
Grid Ref: 511498, 220550

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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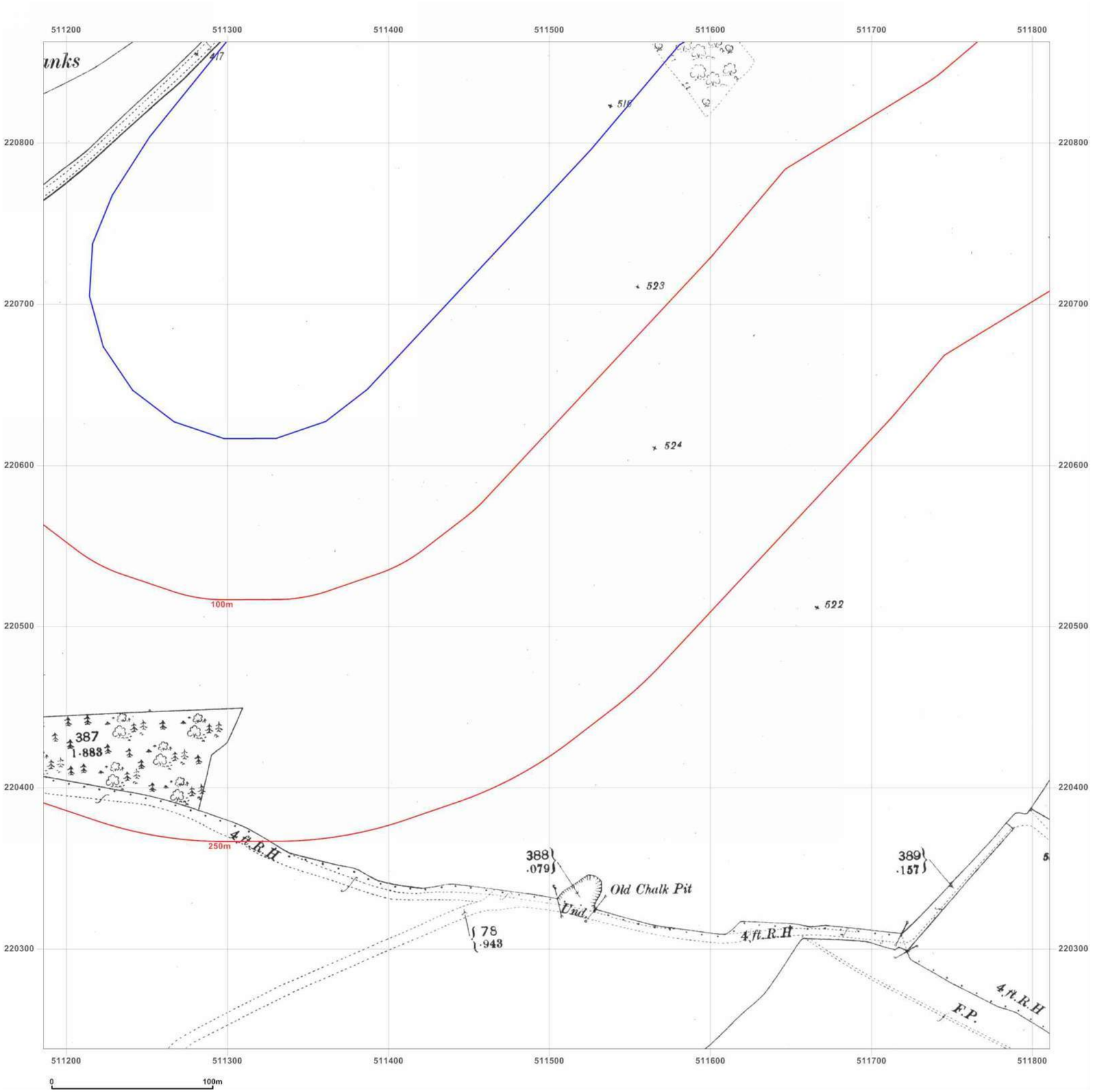


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_1
Grid Ref: 511498, 220550

Map Name: County Series

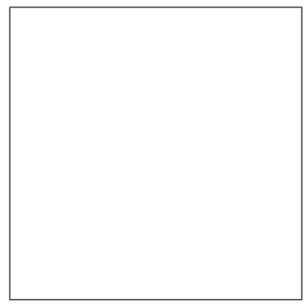
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



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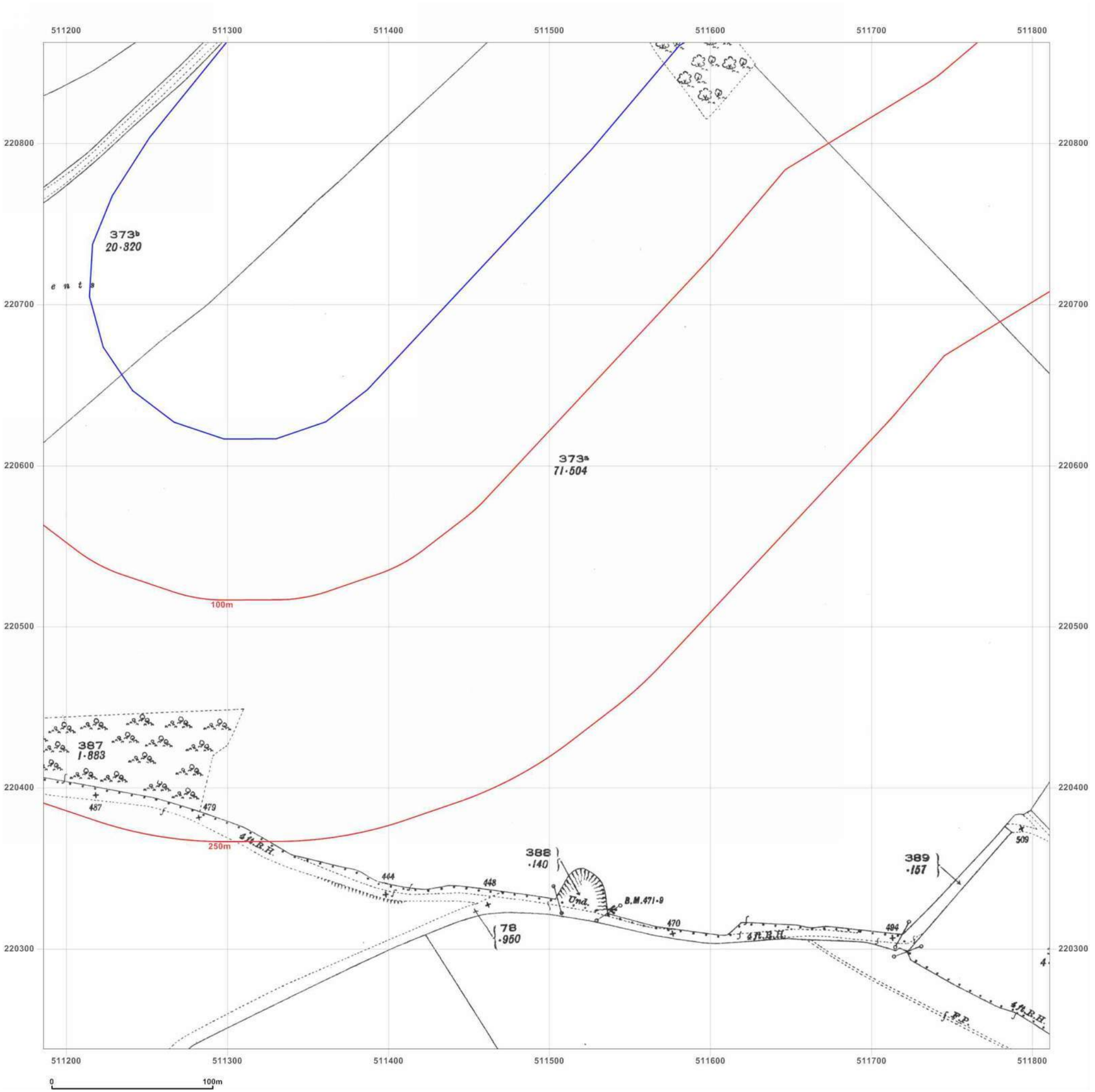

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_1
Grid Ref: 511498, 220550

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 23 November 2020

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_1
Grid Ref: 511498, 220550

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1971
Edition N/A
Copyright 1973
Levelled 1958

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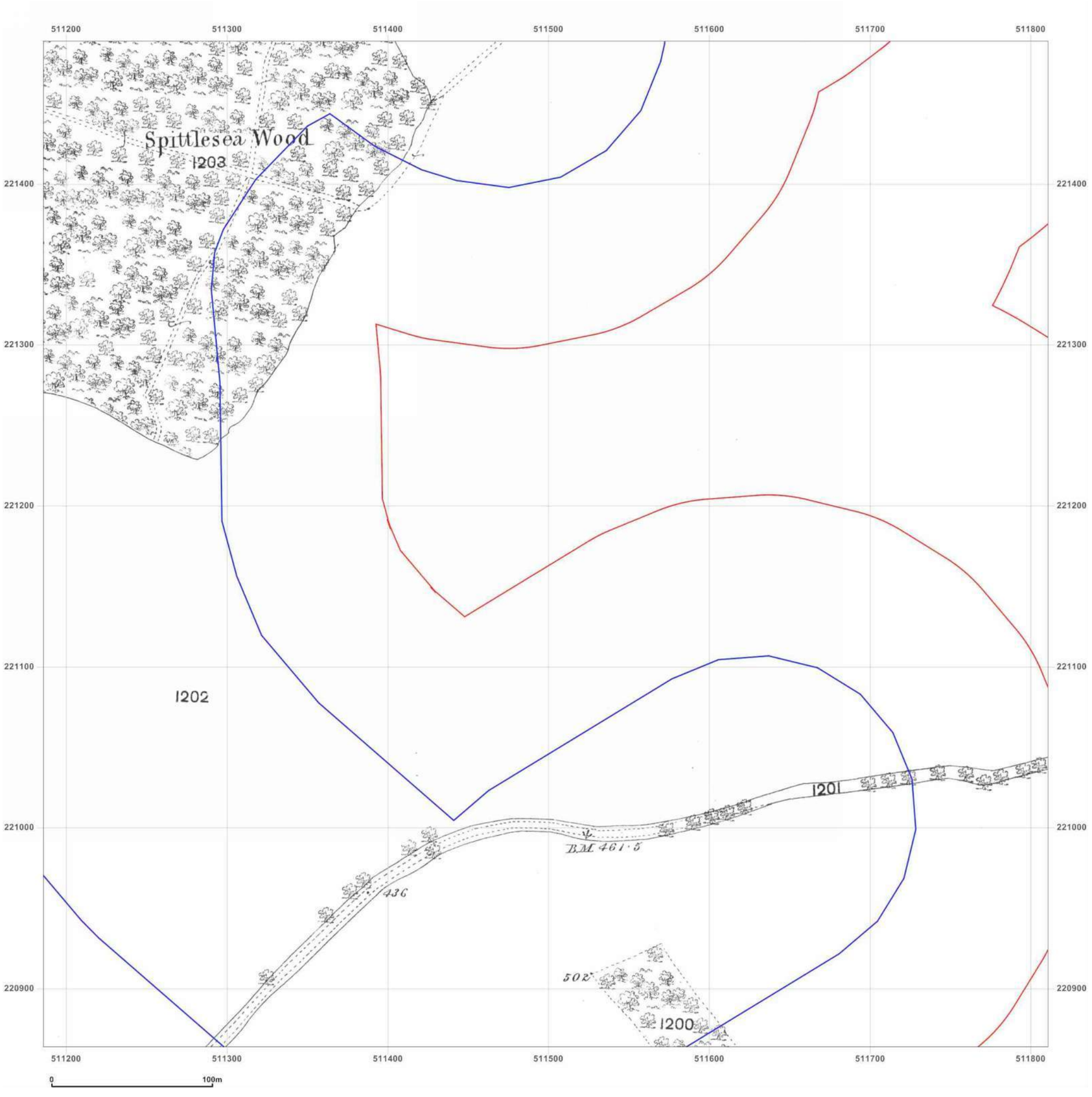

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_2
Grid Ref: 511498, 221176

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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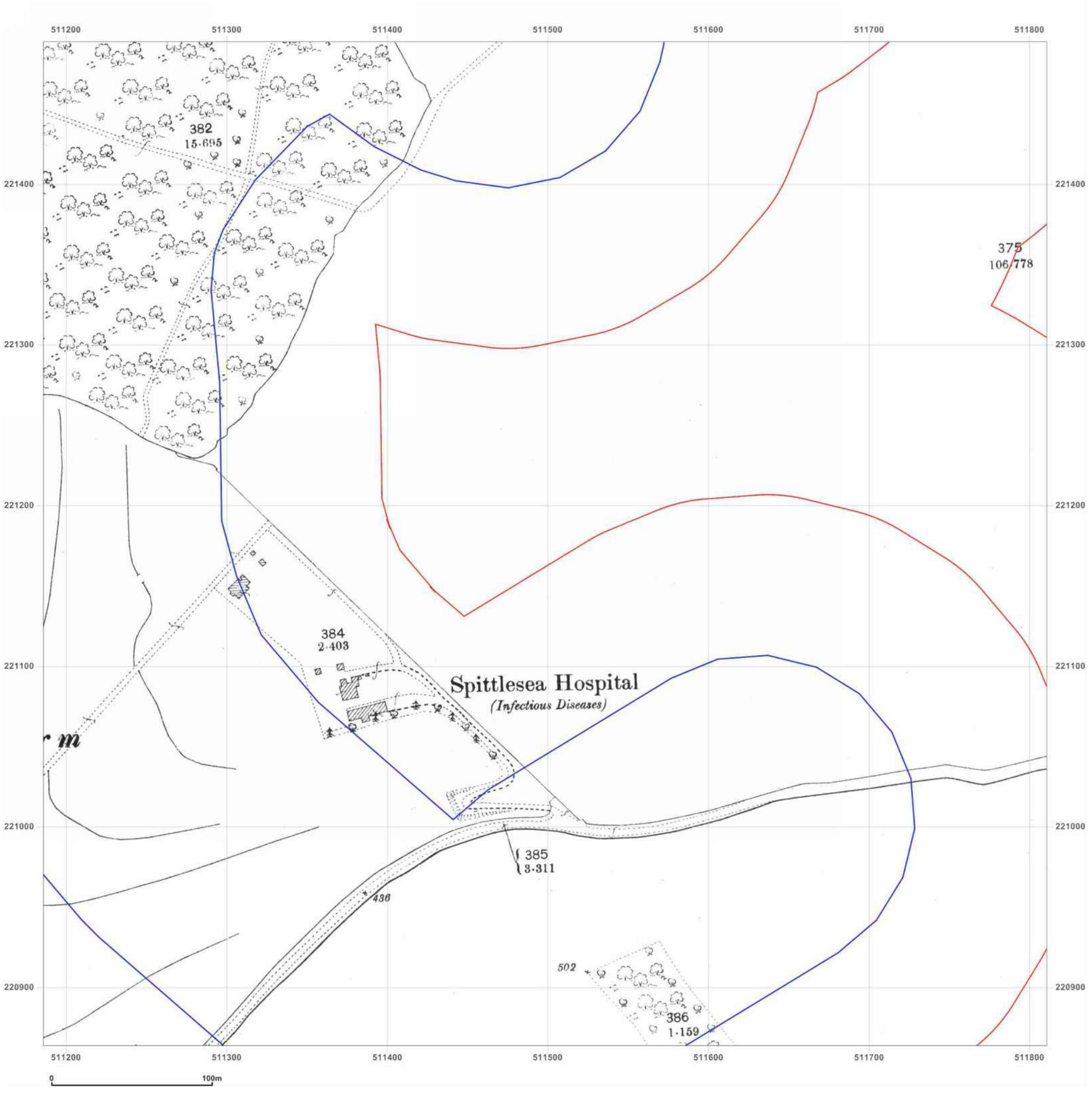

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_2
Grid Ref: 511498, 221176

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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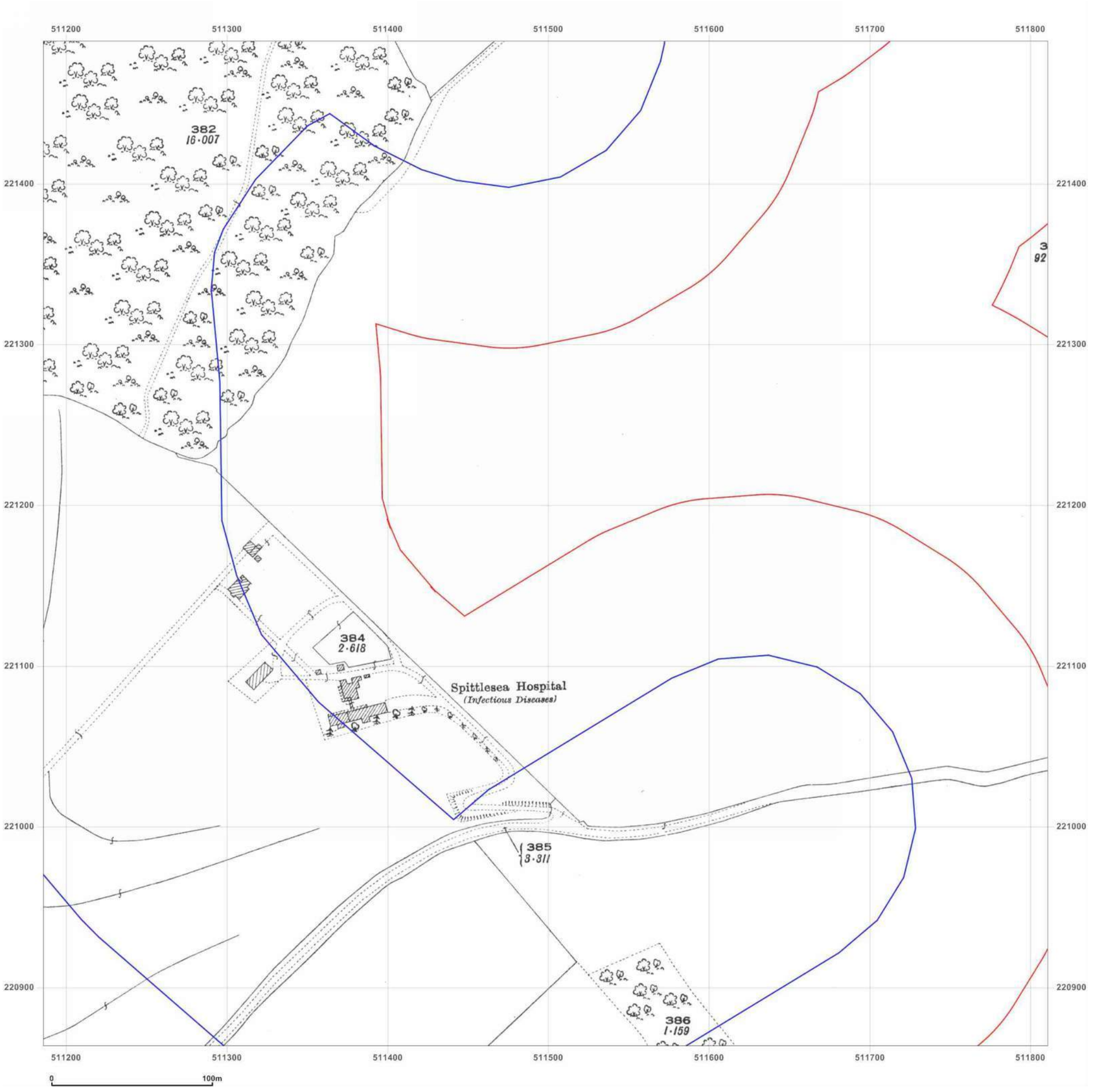
Production date: 23 November 2020

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_2
Grid Ref: 511498, 221176

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 23 November 2020

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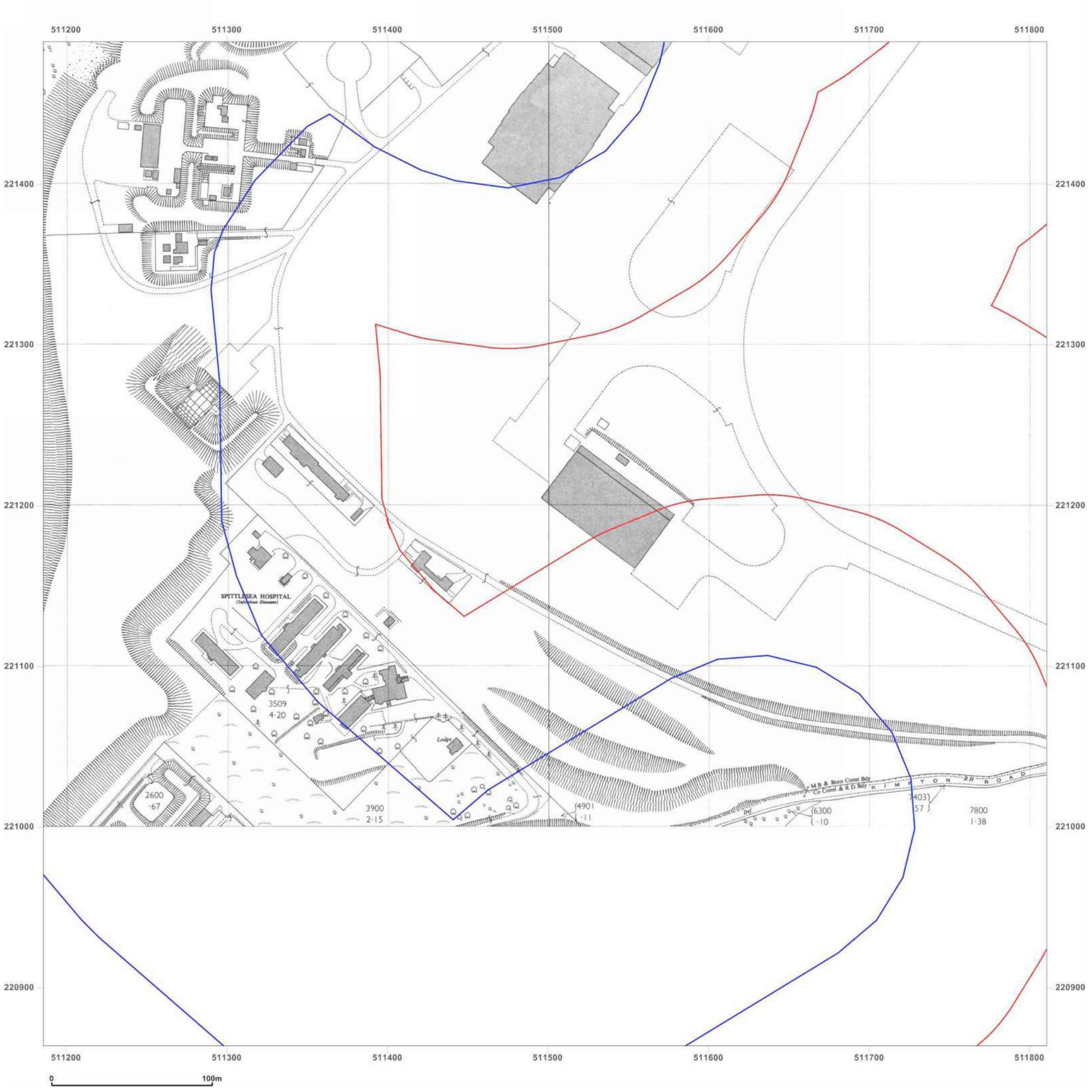

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_2
Grid Ref: 511498, 221176

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958

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Production date: 23 November 2020

Map legend available at:
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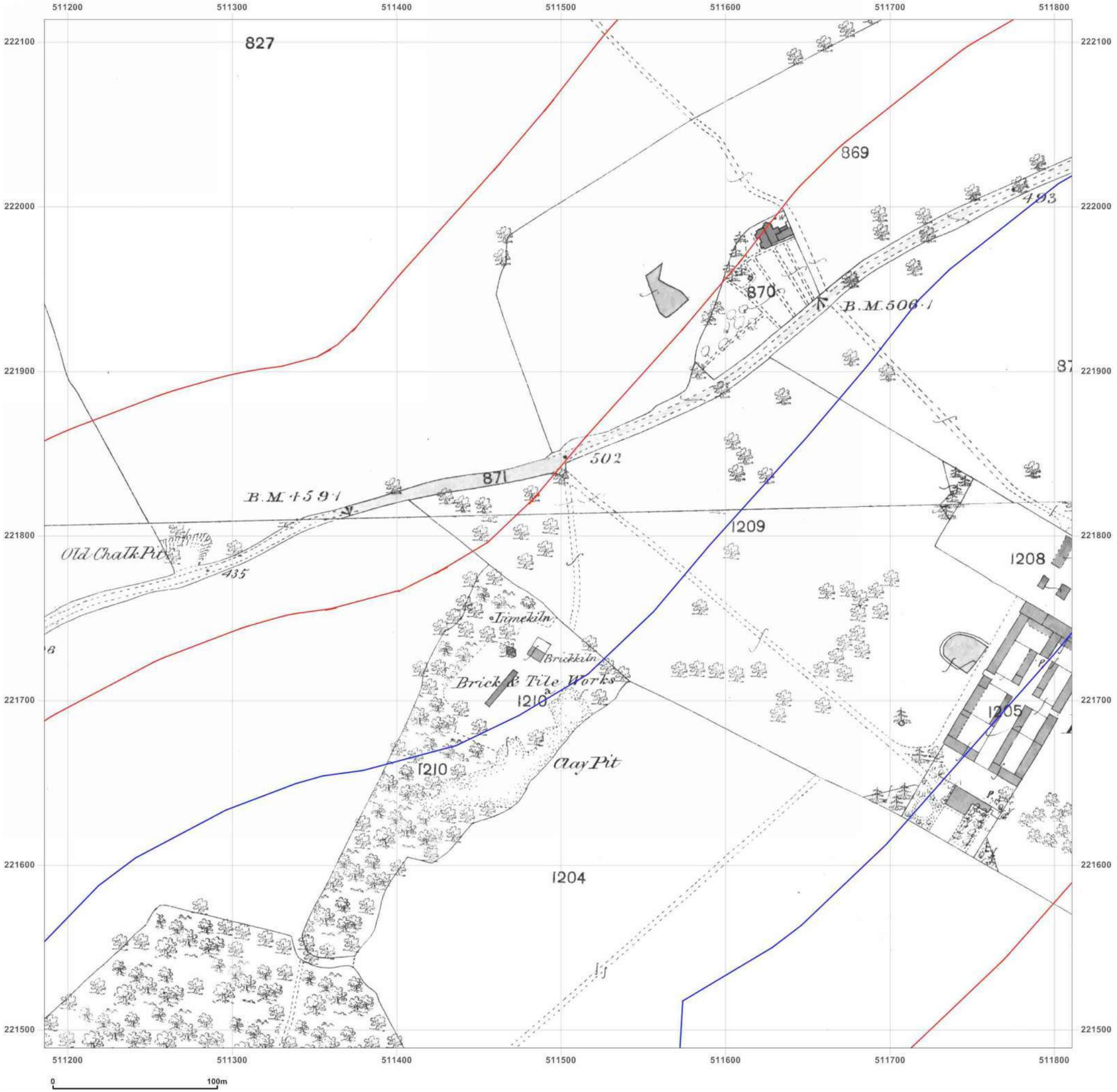


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_3
Grid Ref: 511498, 221801

Map Name: County Series

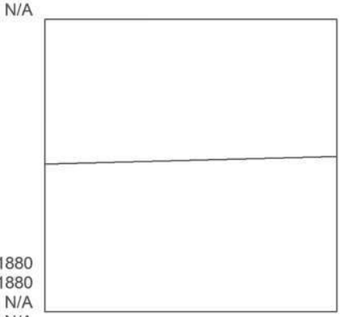
Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
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Production date: 23 November 2020

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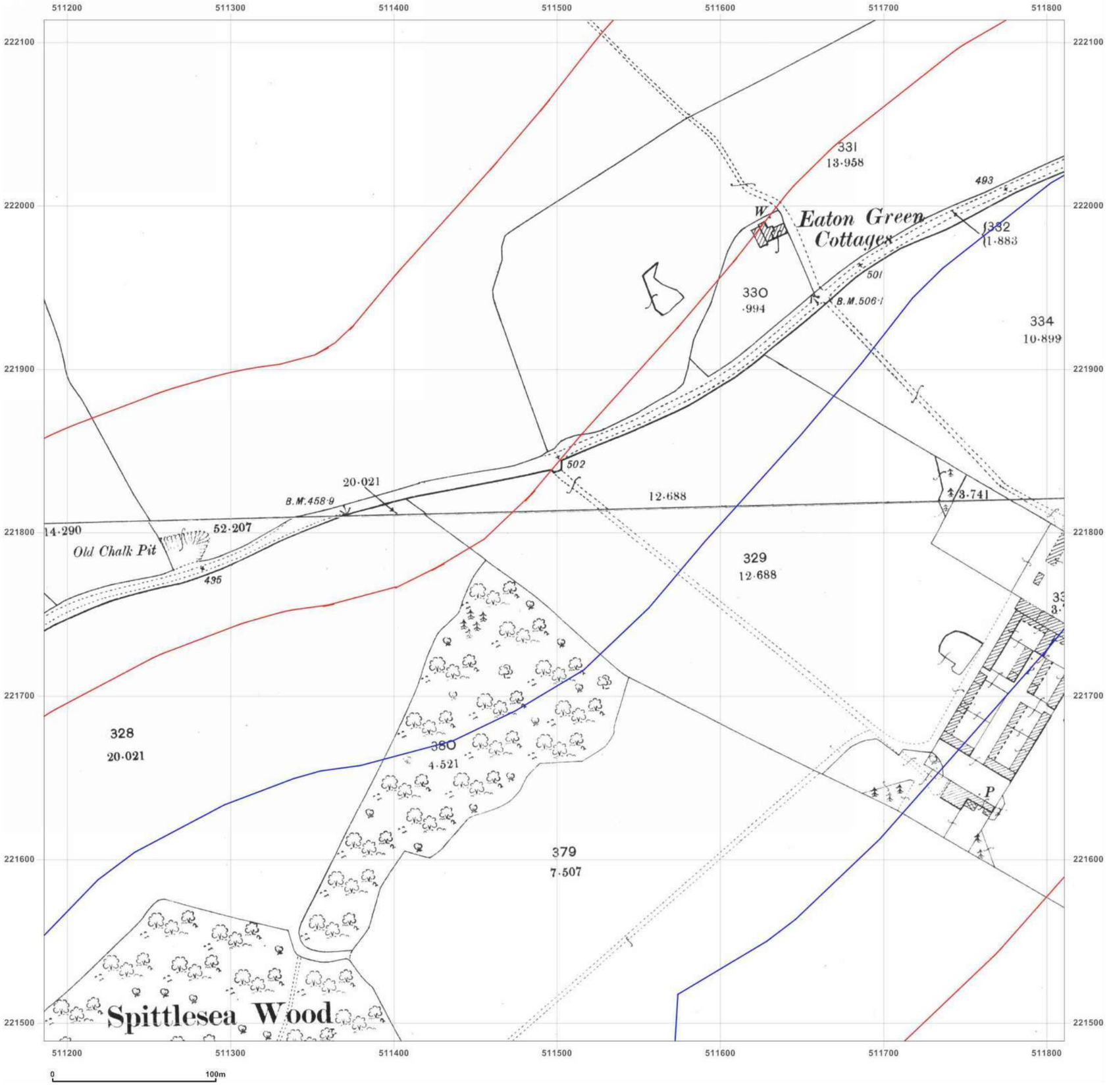


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_3
Grid Ref: 511498, 221801

Map Name: County Series

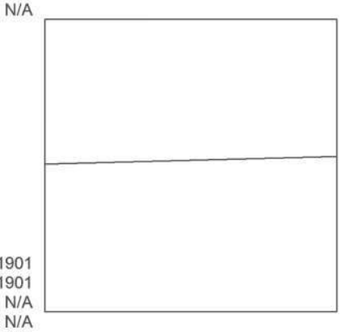
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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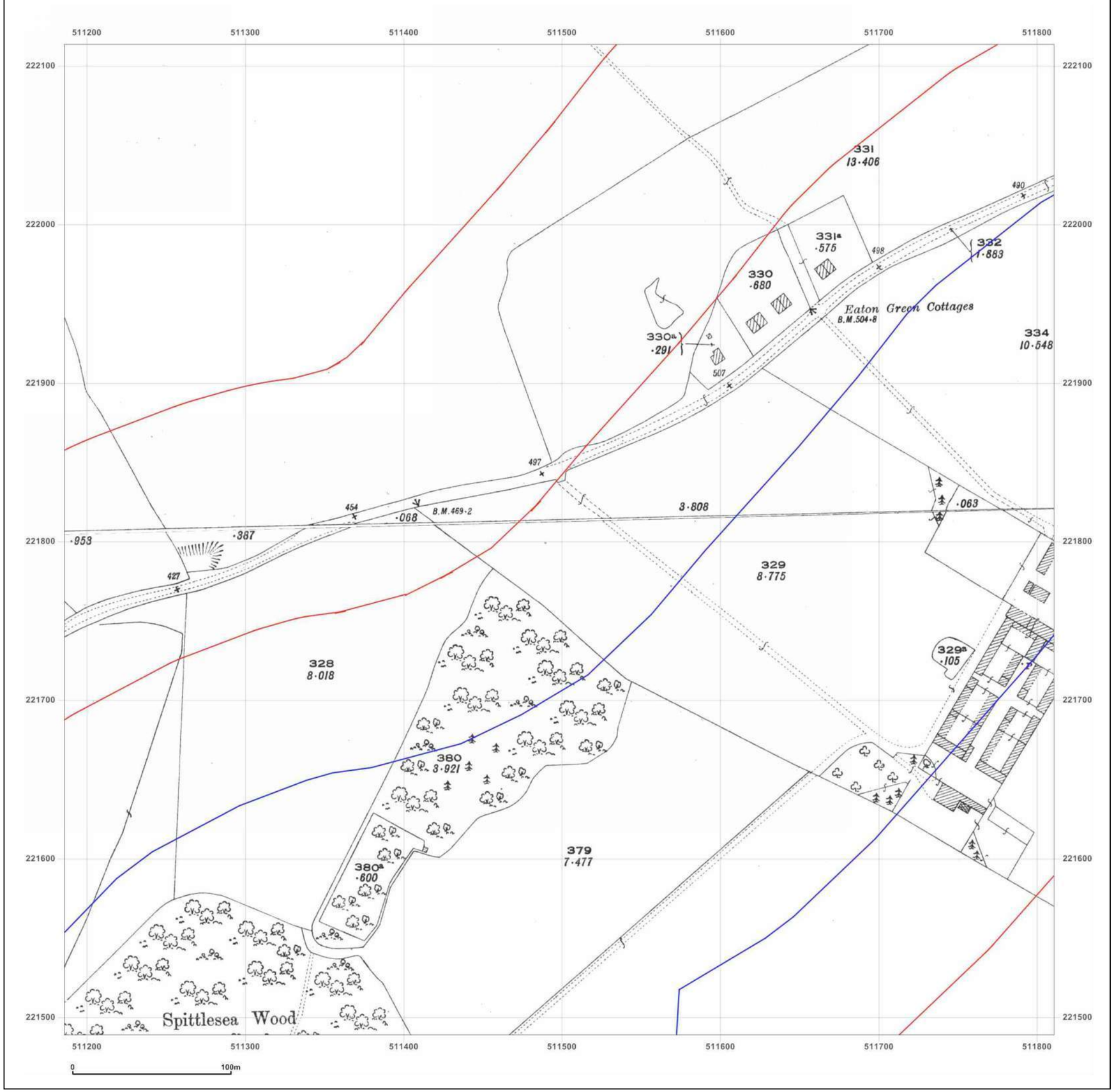


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_3
Grid Ref: 511498, 221801

Map Name: County Series

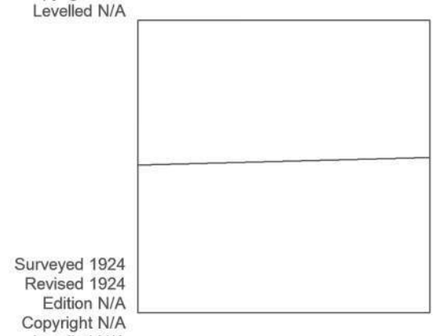
Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_3
Grid Ref: 511498, 221801

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1958

Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958

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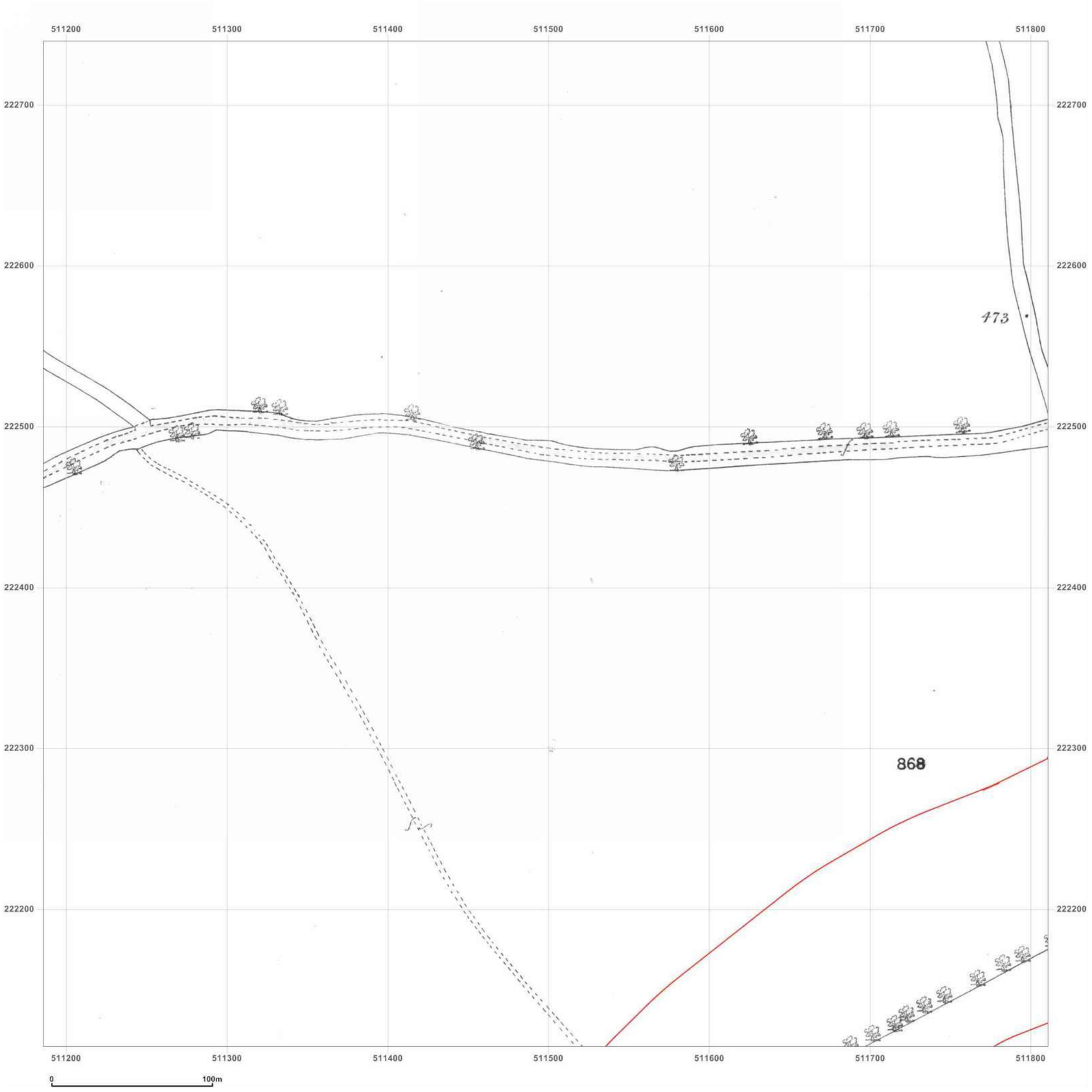

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_4
Grid Ref: 511498, 222427

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

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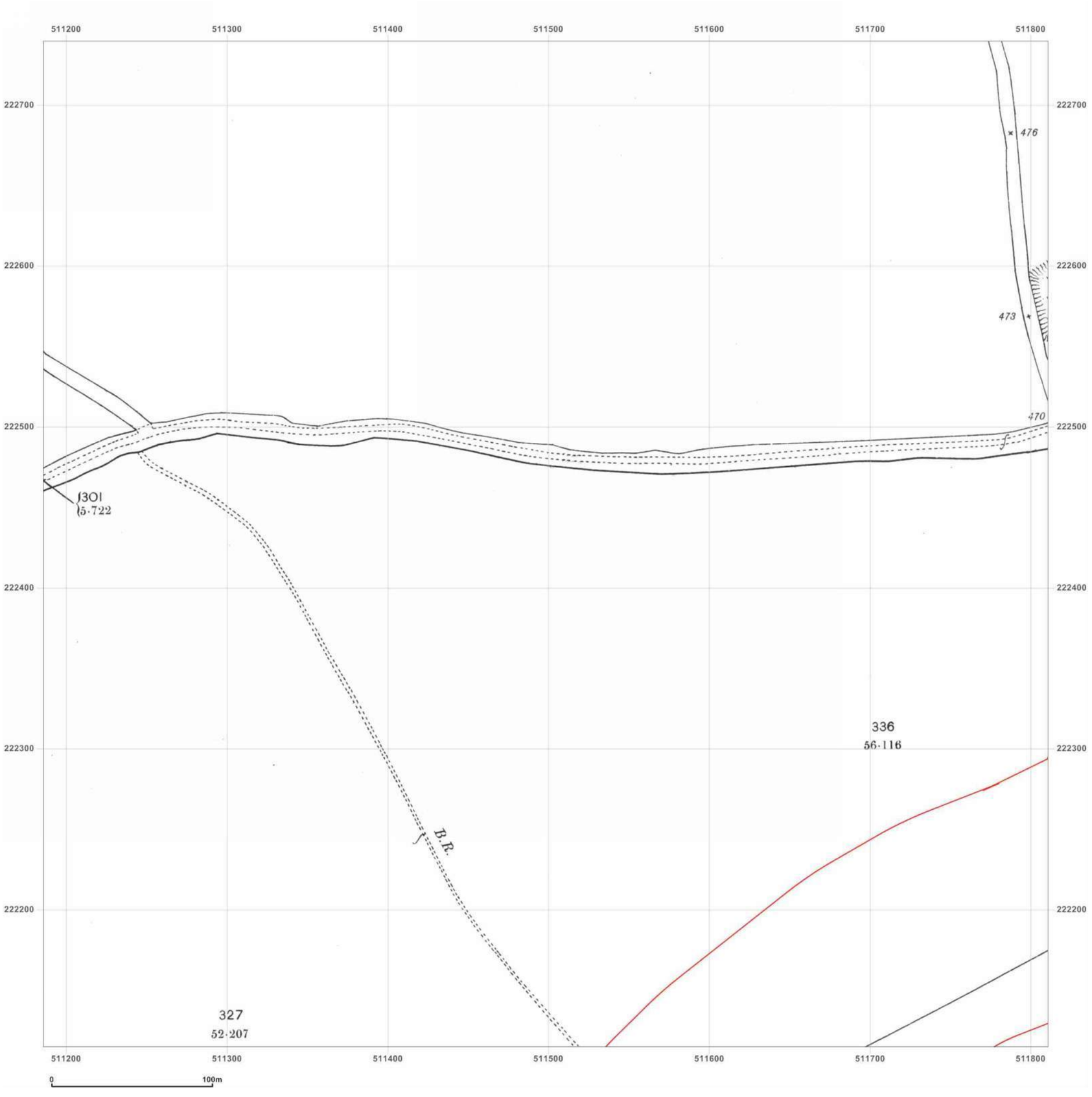

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_4
Grid Ref: 511498, 222427

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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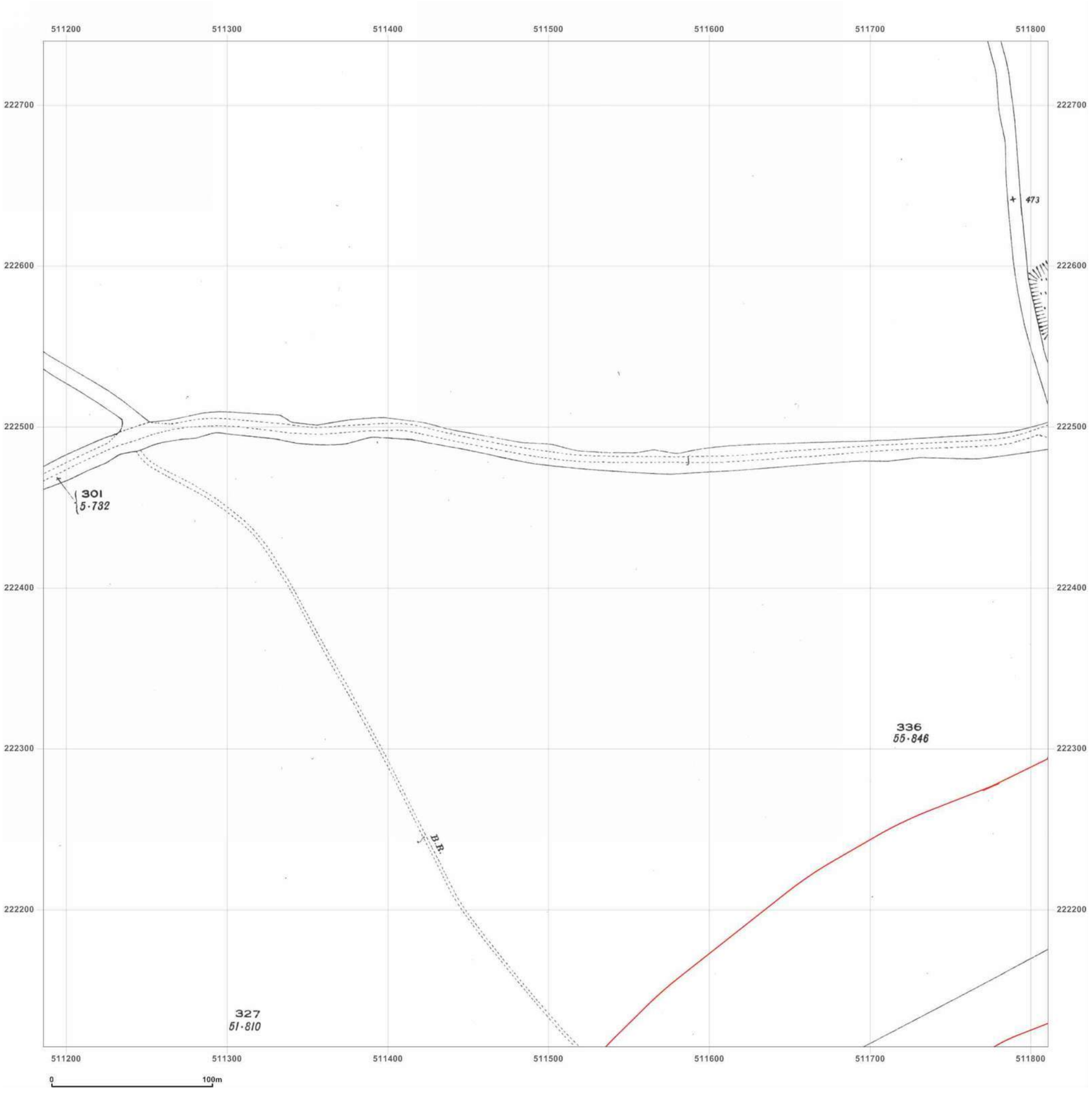

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_4
Grid Ref: 511498, 222427

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_2_4
Grid Ref: 511498, 222427

Map Name: National Grid

Map date: **1961**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1958

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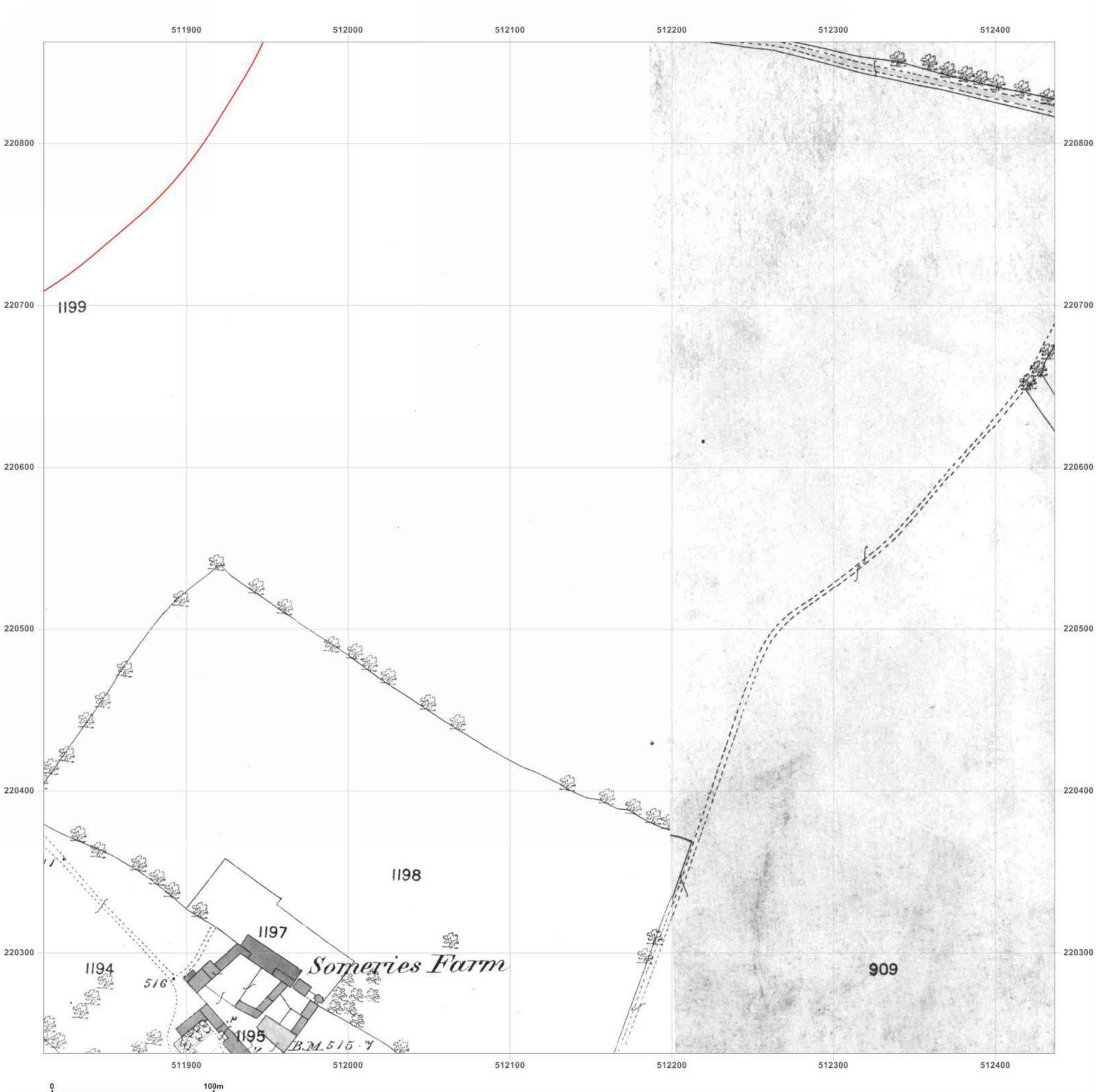


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

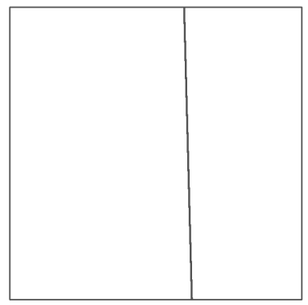
Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_1
Grid Ref: 512124, 220550

Map Name: County Series
Map date: **1880-1881**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



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Production date: 23 November 2020

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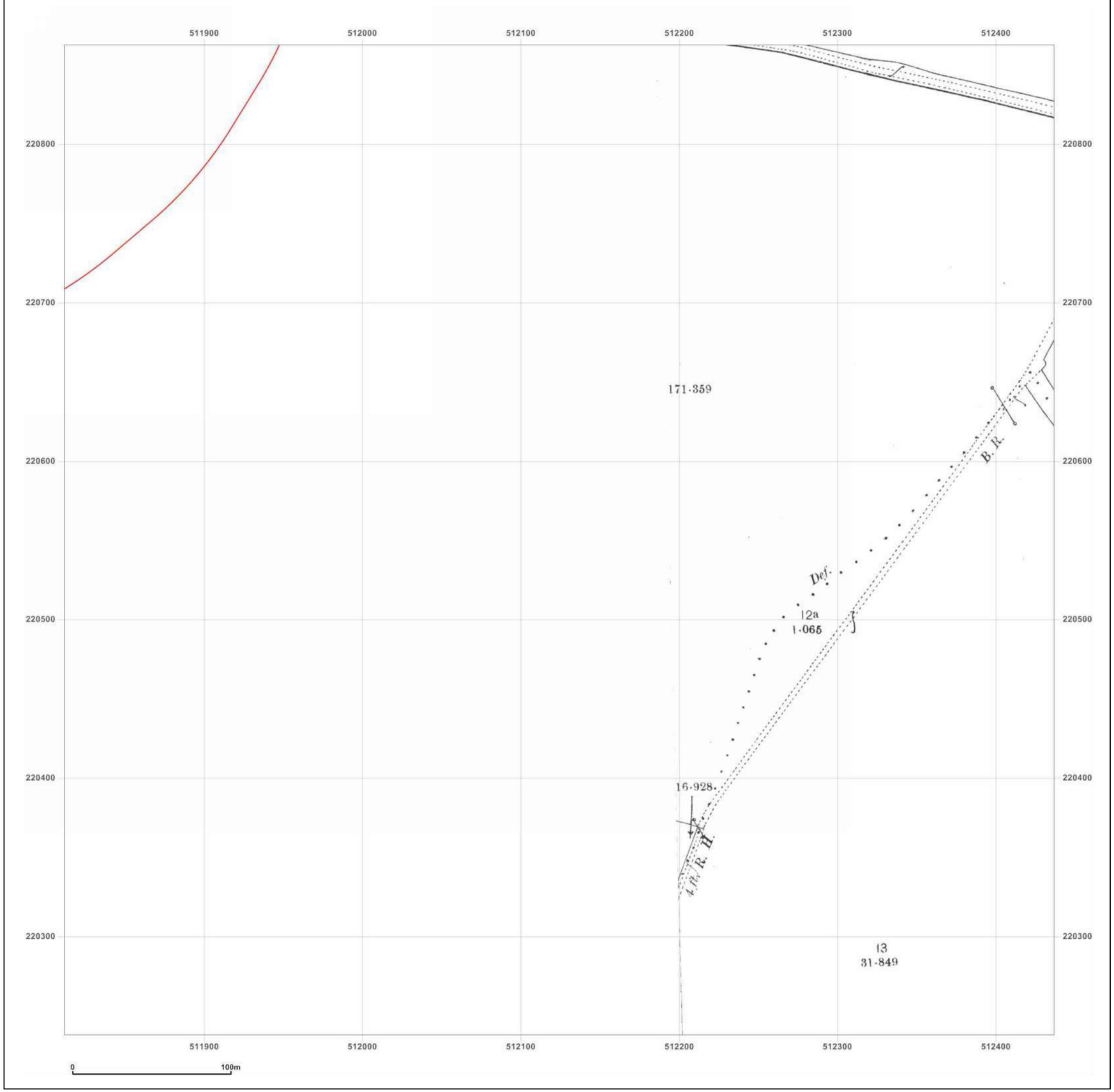


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_1
Grid Ref: 512124, 220550

Map Name: County Series

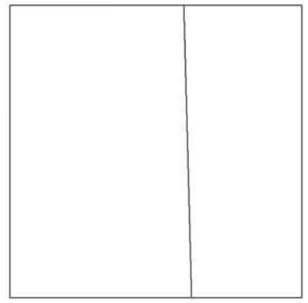
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



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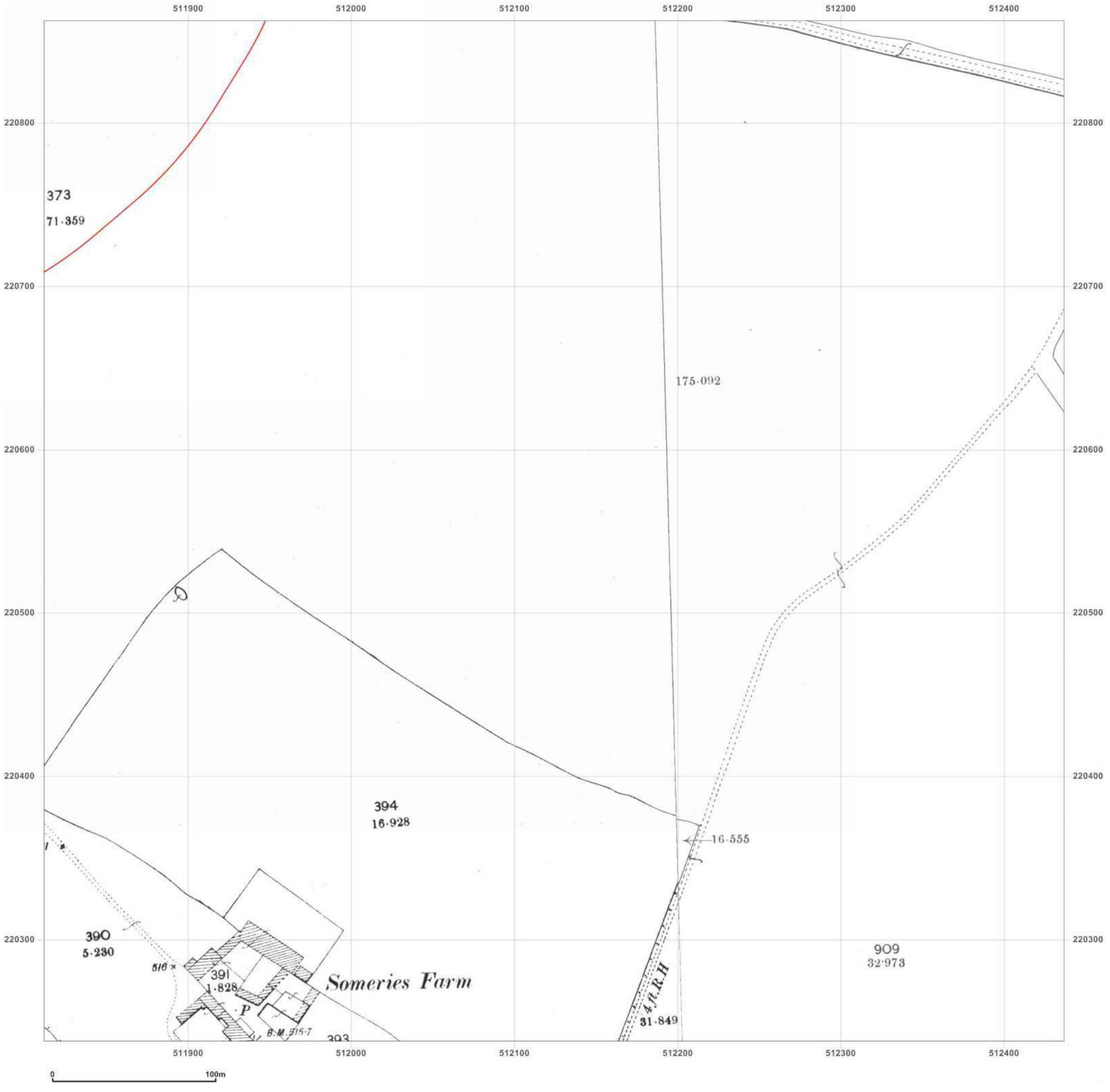


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_1
Grid Ref: 512124, 220550

Map Name: County Series

Map date: **1898-1901**

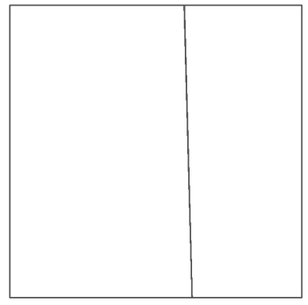
Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A



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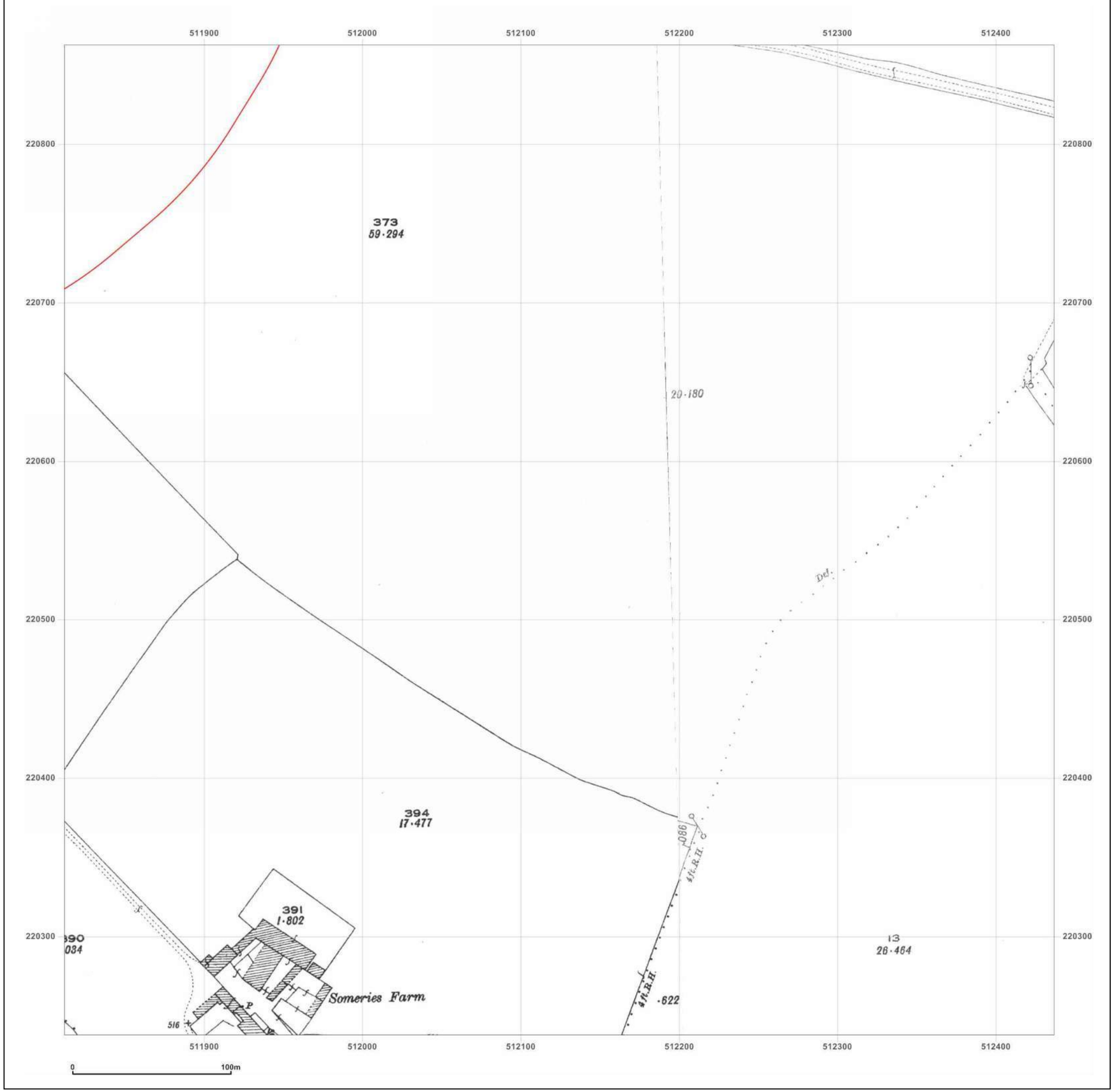


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_1
Grid Ref: 512124, 220550

Map Name: County Series

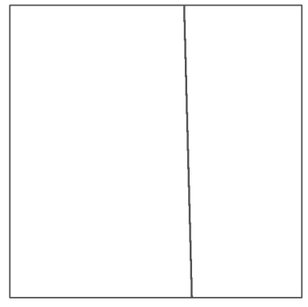
Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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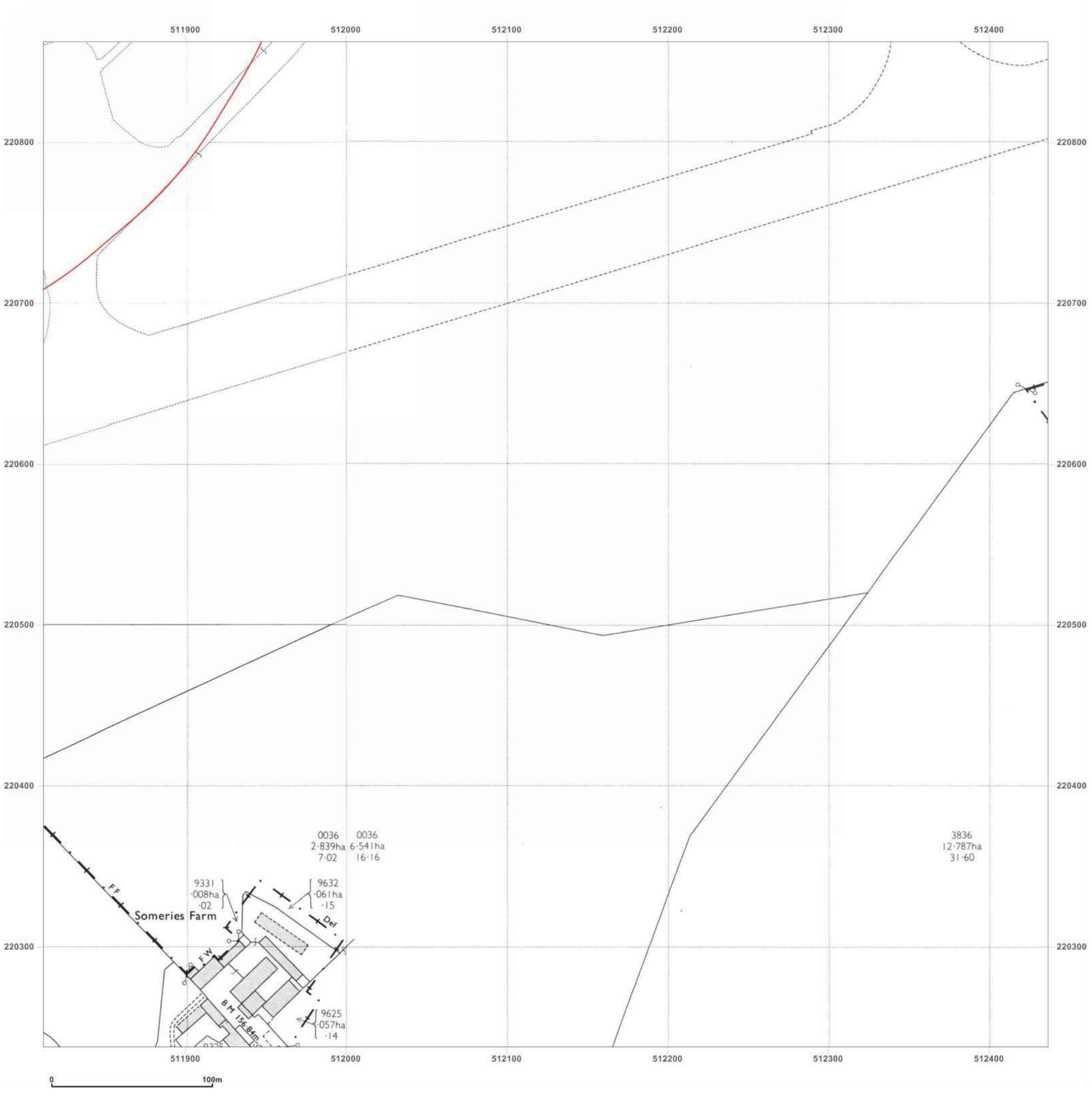


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_1
Grid Ref: 512124, 220550

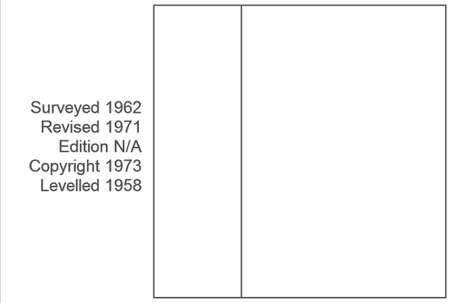
Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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Production date: 23 November 2020

Map legend available at:
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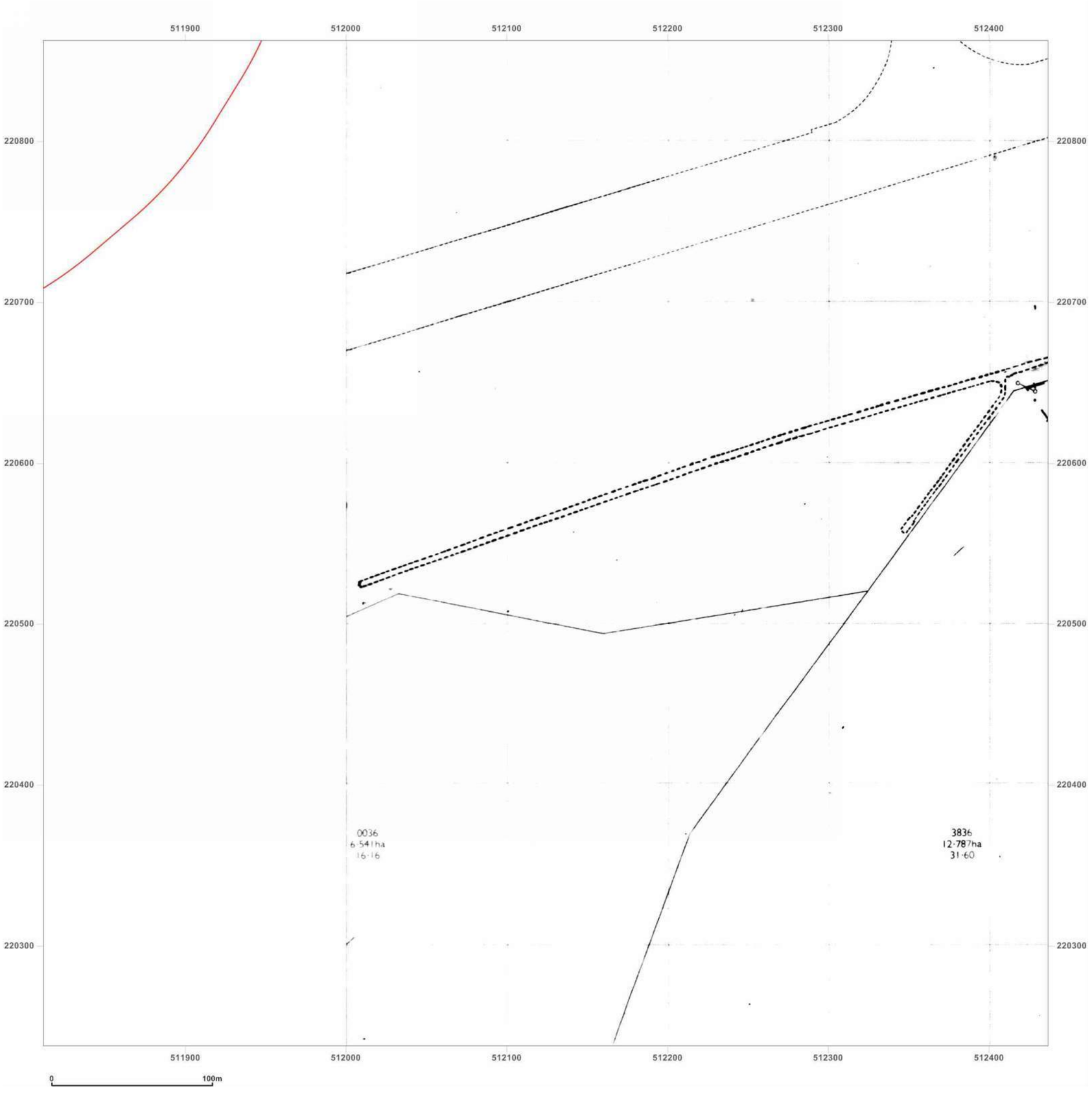


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_1
Grid Ref: 512124, 220550

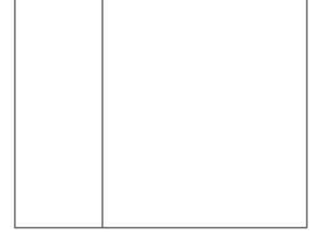
Map Name: National Grid

Map date: **1973**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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

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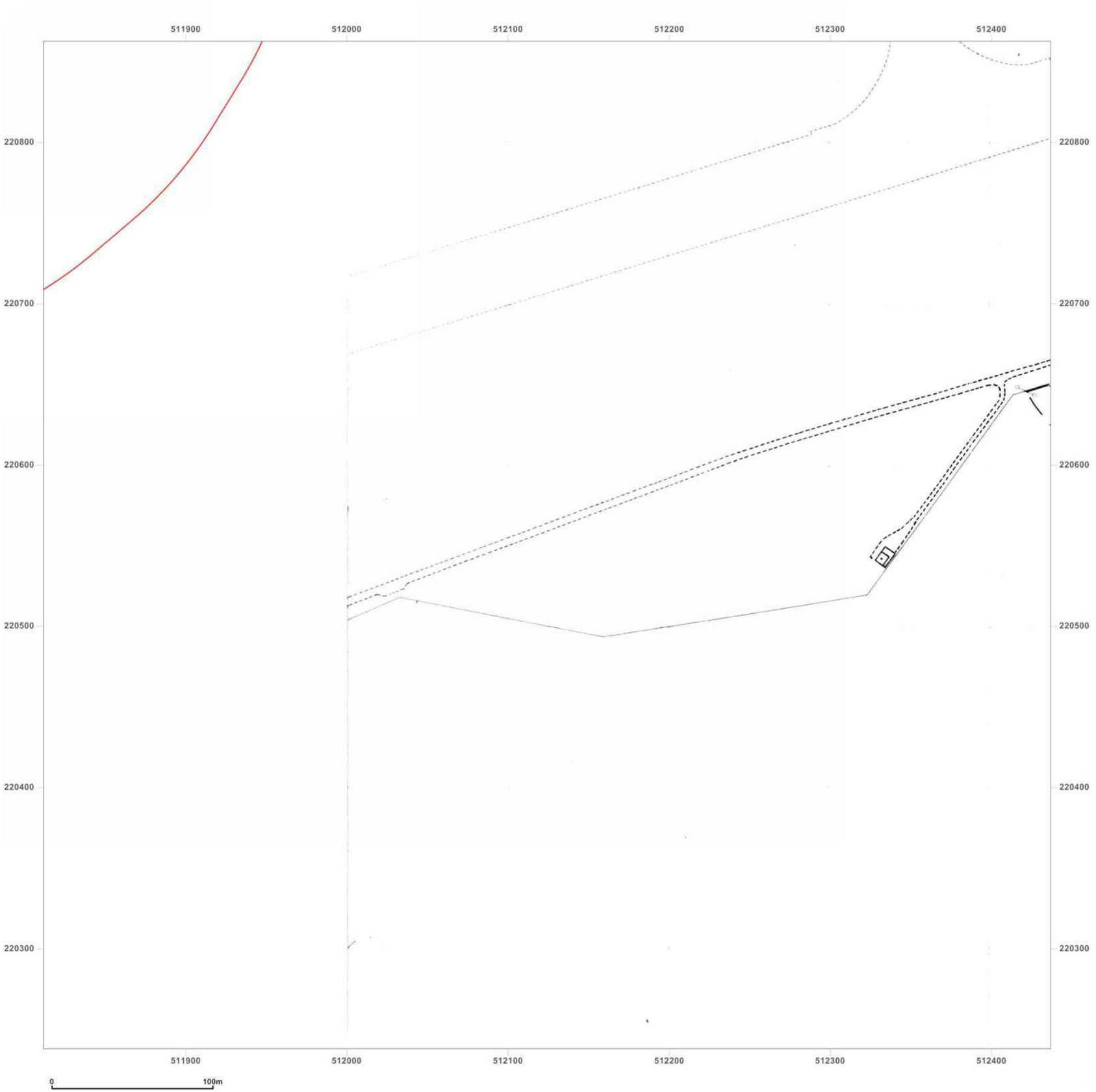

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_1
Grid Ref: 512124, 220550

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

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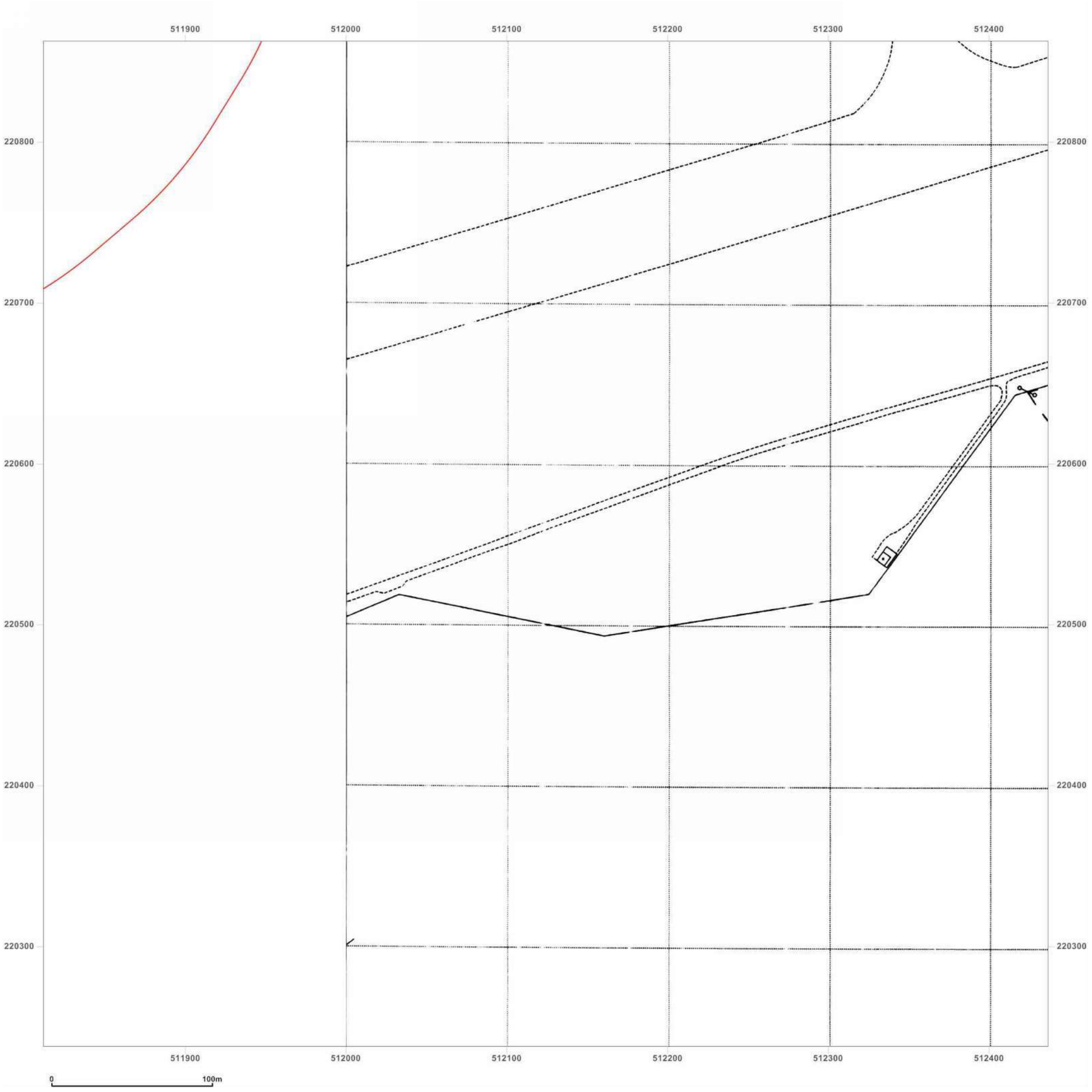

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_1
Grid Ref: 512124, 220550

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Production date: 23 November 2020

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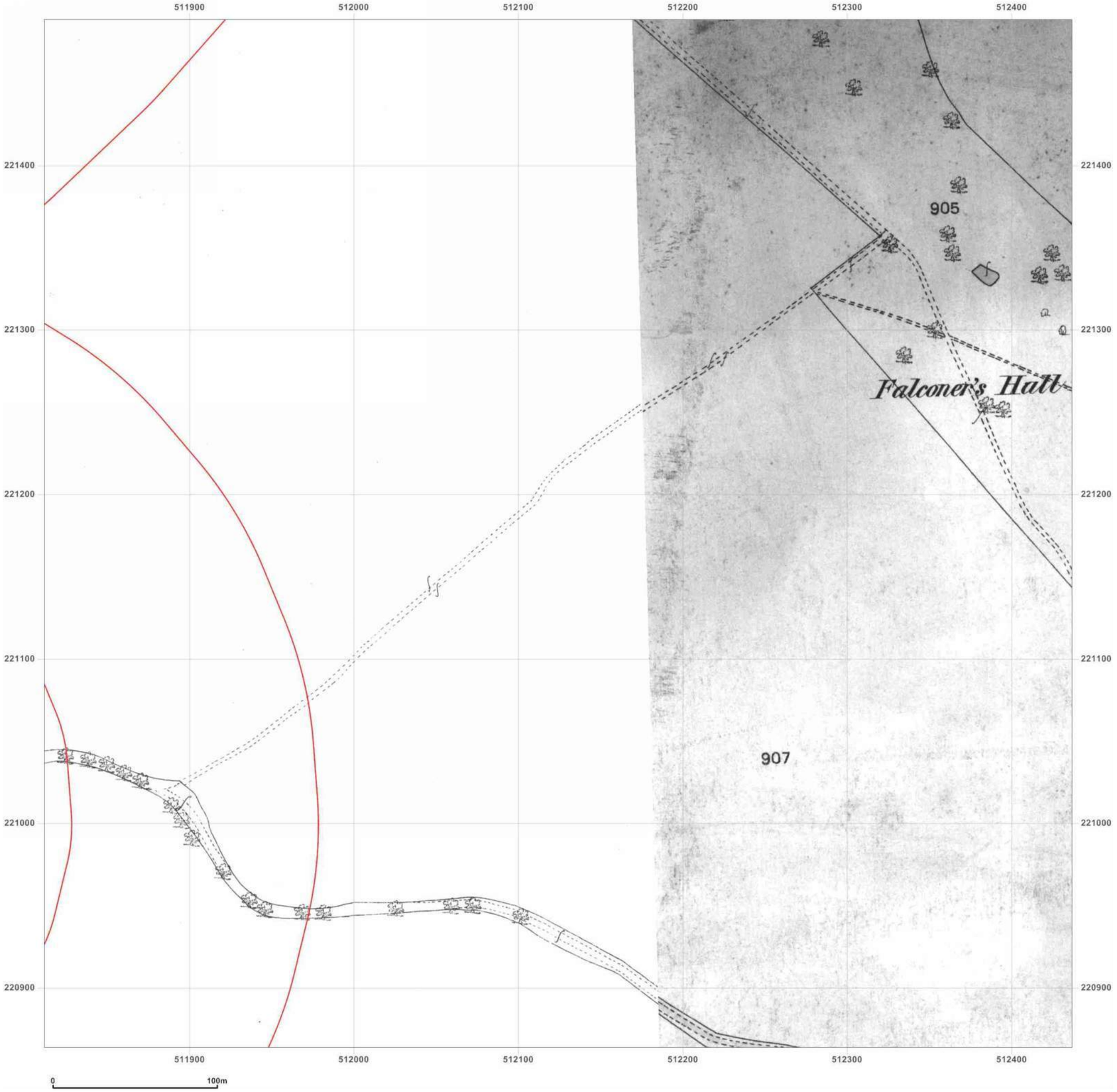

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_2
Grid Ref: 512124, 221176

Map Name: County Series
Map date: **1880-1881**
Scale: 1:2,500
Printed at: 1:2,500

N
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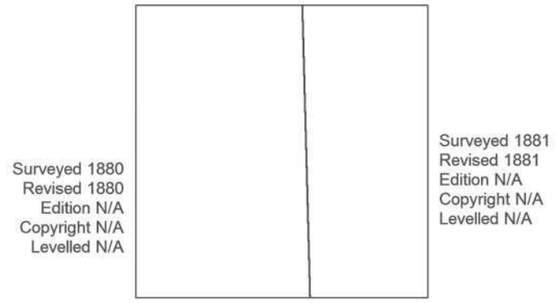

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Production date: 23 November 2020

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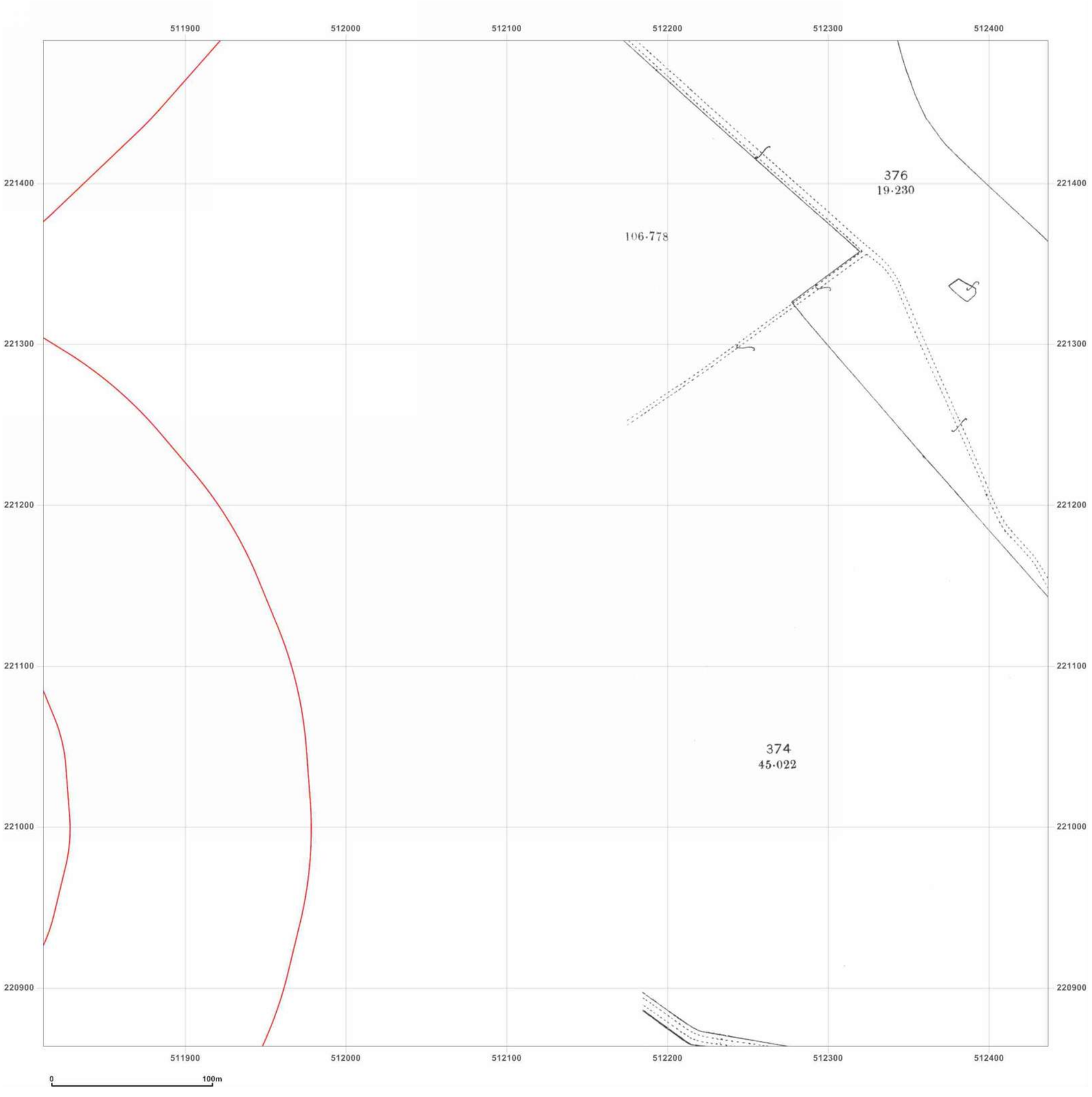

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_2
Grid Ref: 512124, 221176

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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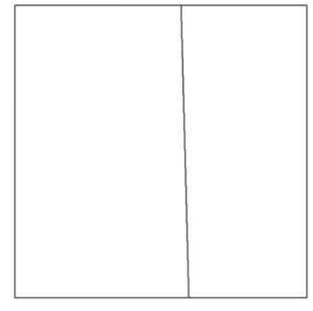

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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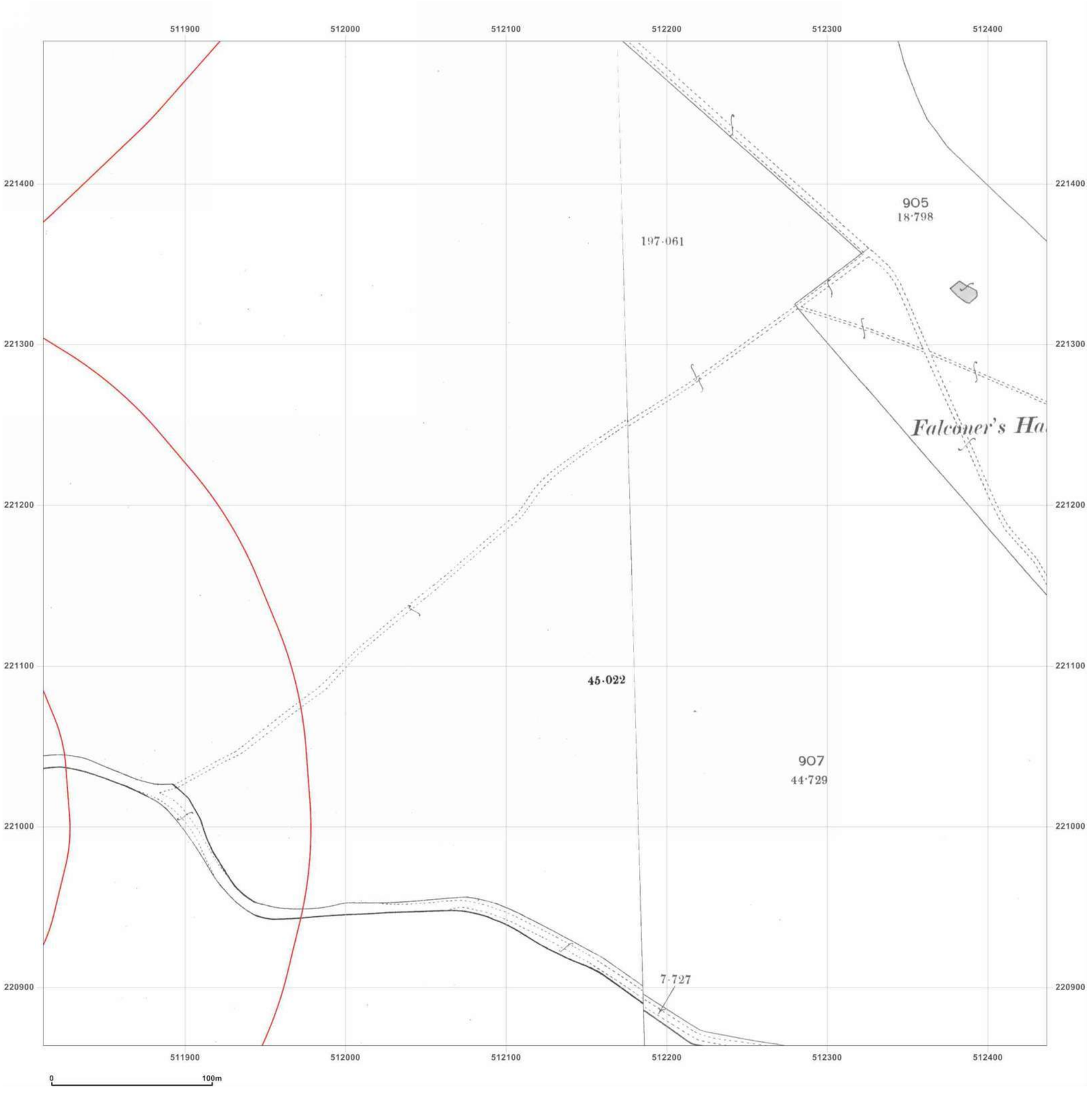

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_2
Grid Ref: 512124, 221176

Map Name: County Series
Map date: **1898-1901**
Scale: 1:2,500
Printed at: 1:2,500

N
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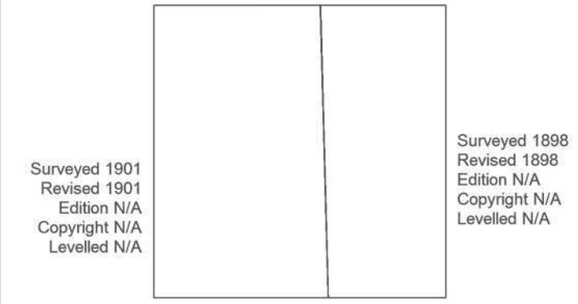

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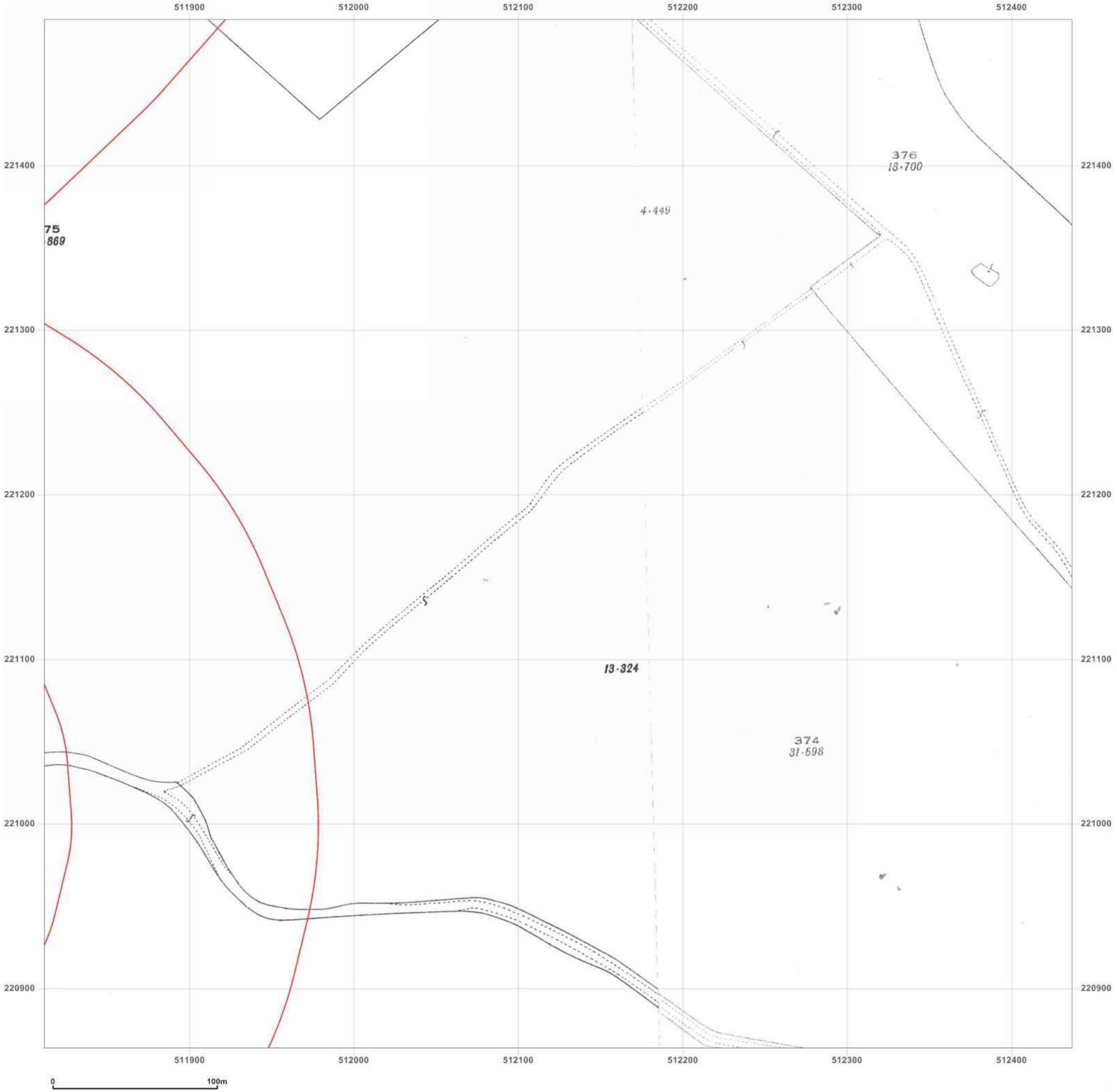

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_2
Grid Ref: 512124, 221176

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

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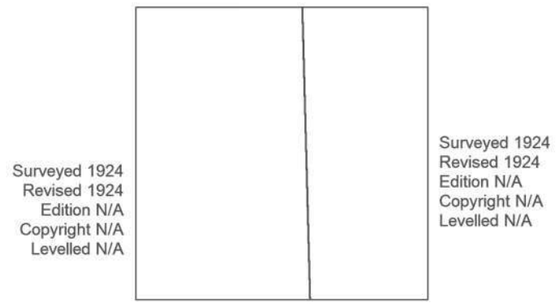

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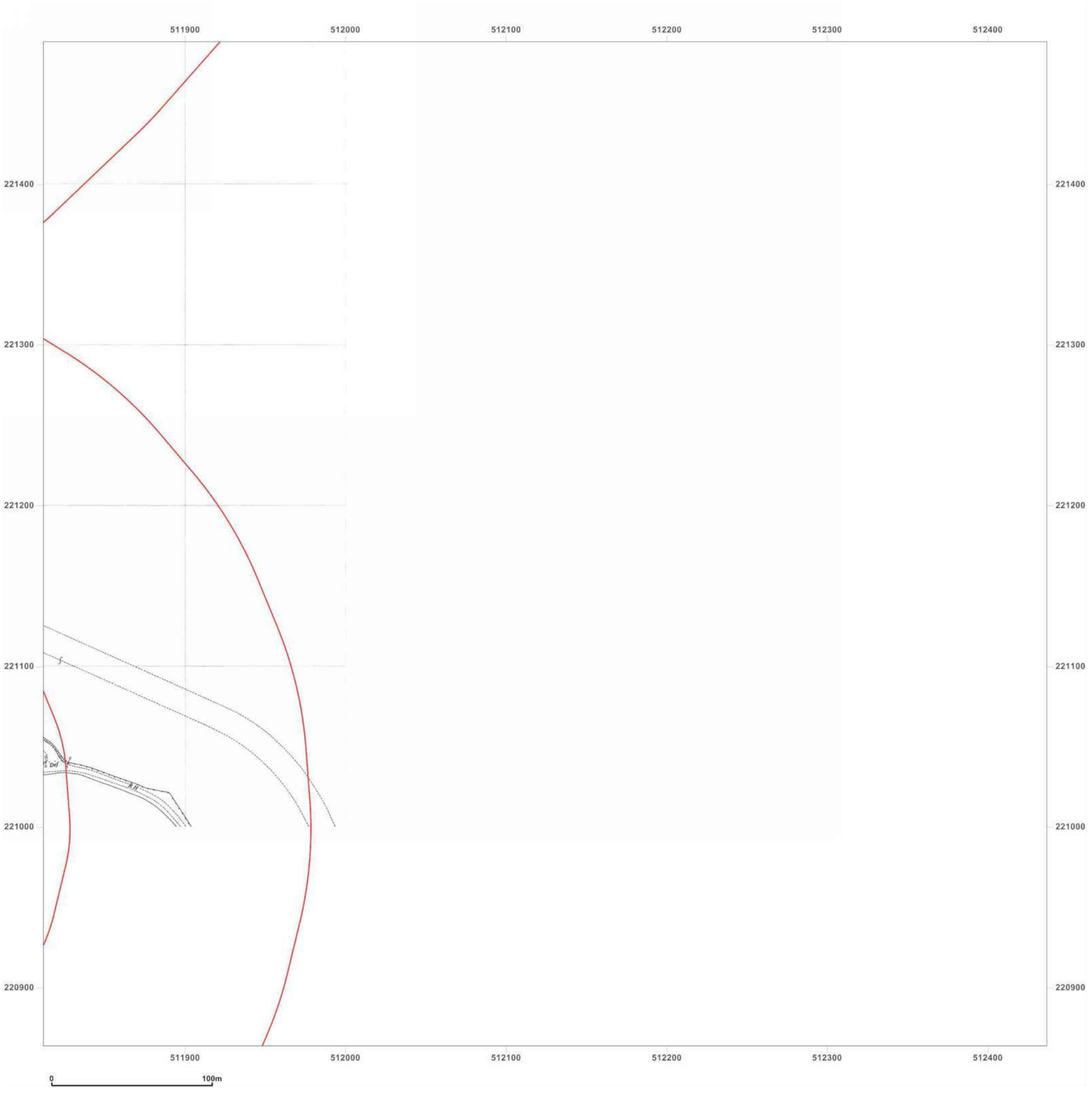

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_2
Grid Ref: 512124, 221176

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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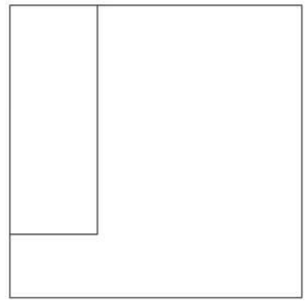
Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958



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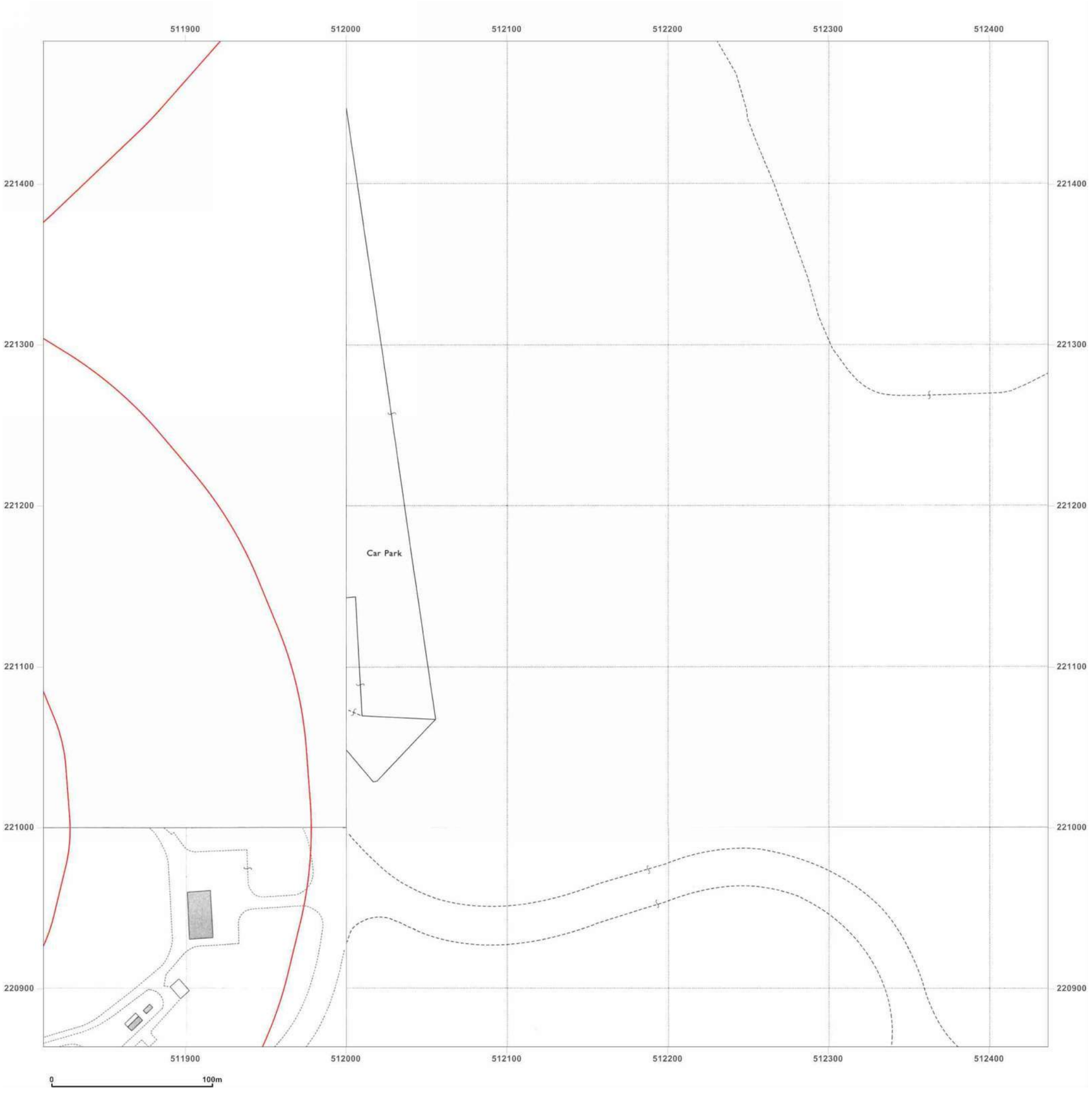

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_2
Grid Ref: 512124, 221176

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1962
Revised 1971
Edition N/A
Copyright 1973
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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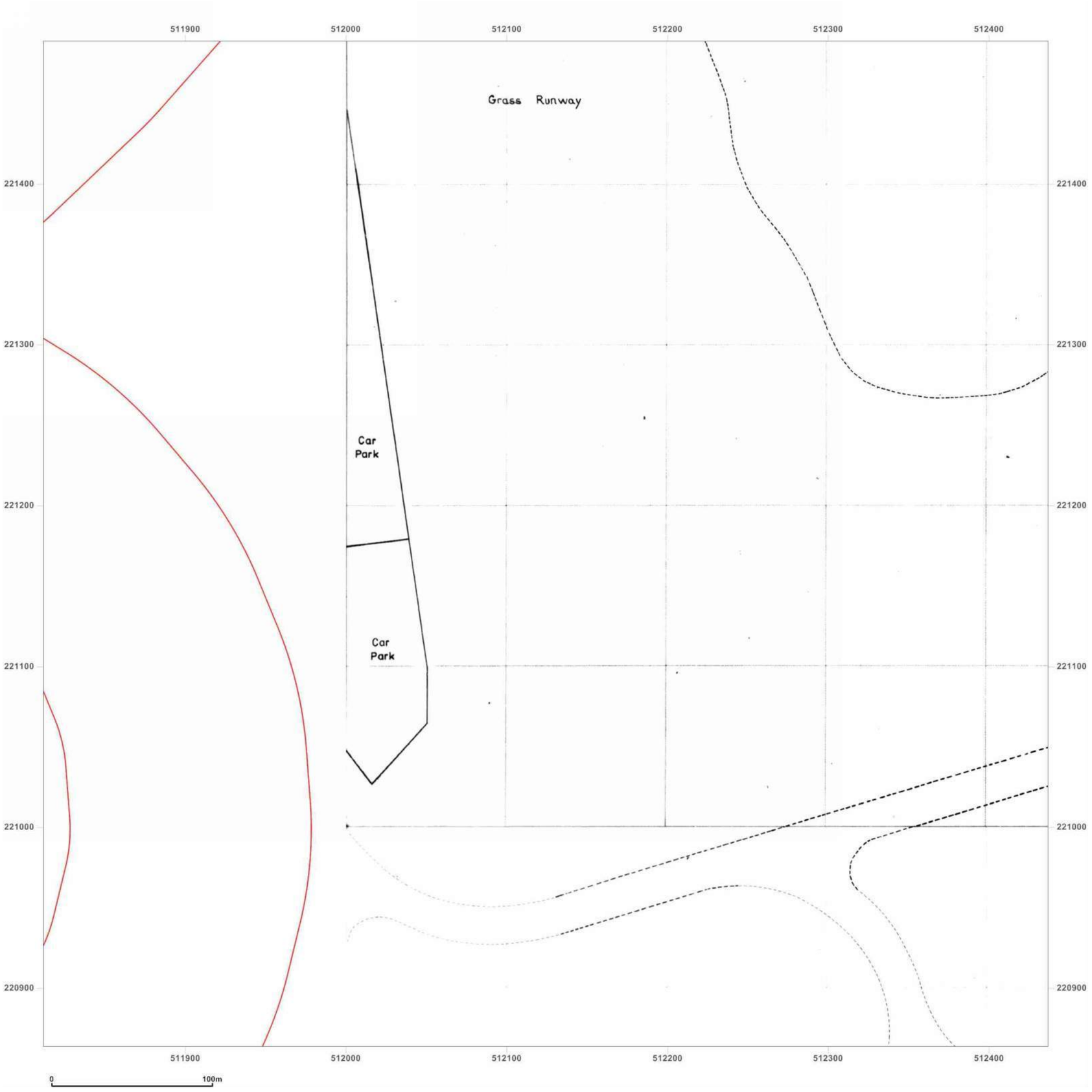

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_2
Grid Ref: 512124, 221176

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

Surveyed 1958
Revised 1990
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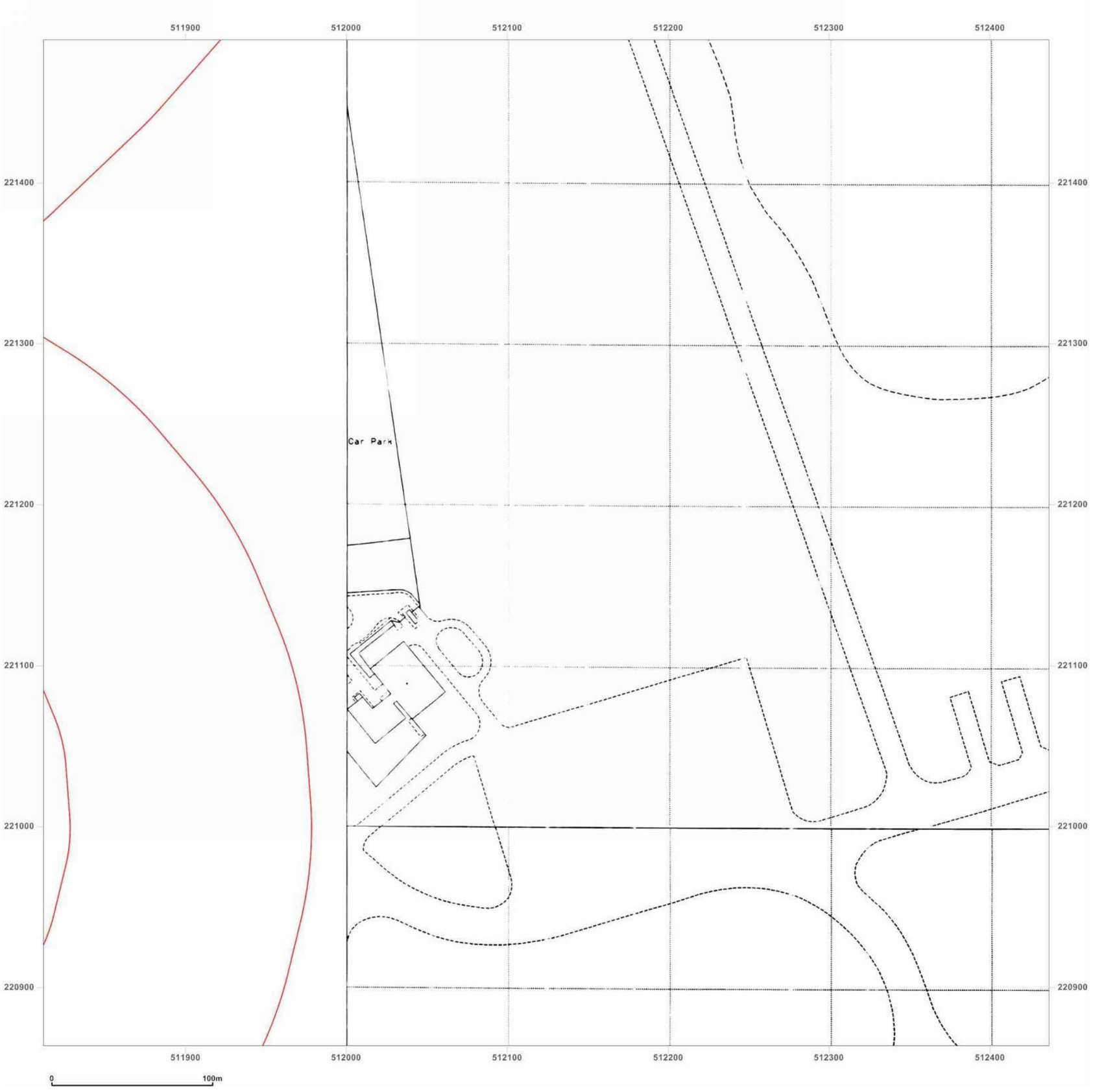

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_2
Grid Ref: 512124, 221176

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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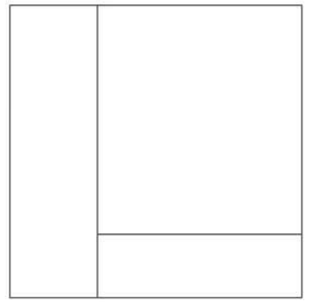

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Revised N/A
Edition N/A
Copyright 1993
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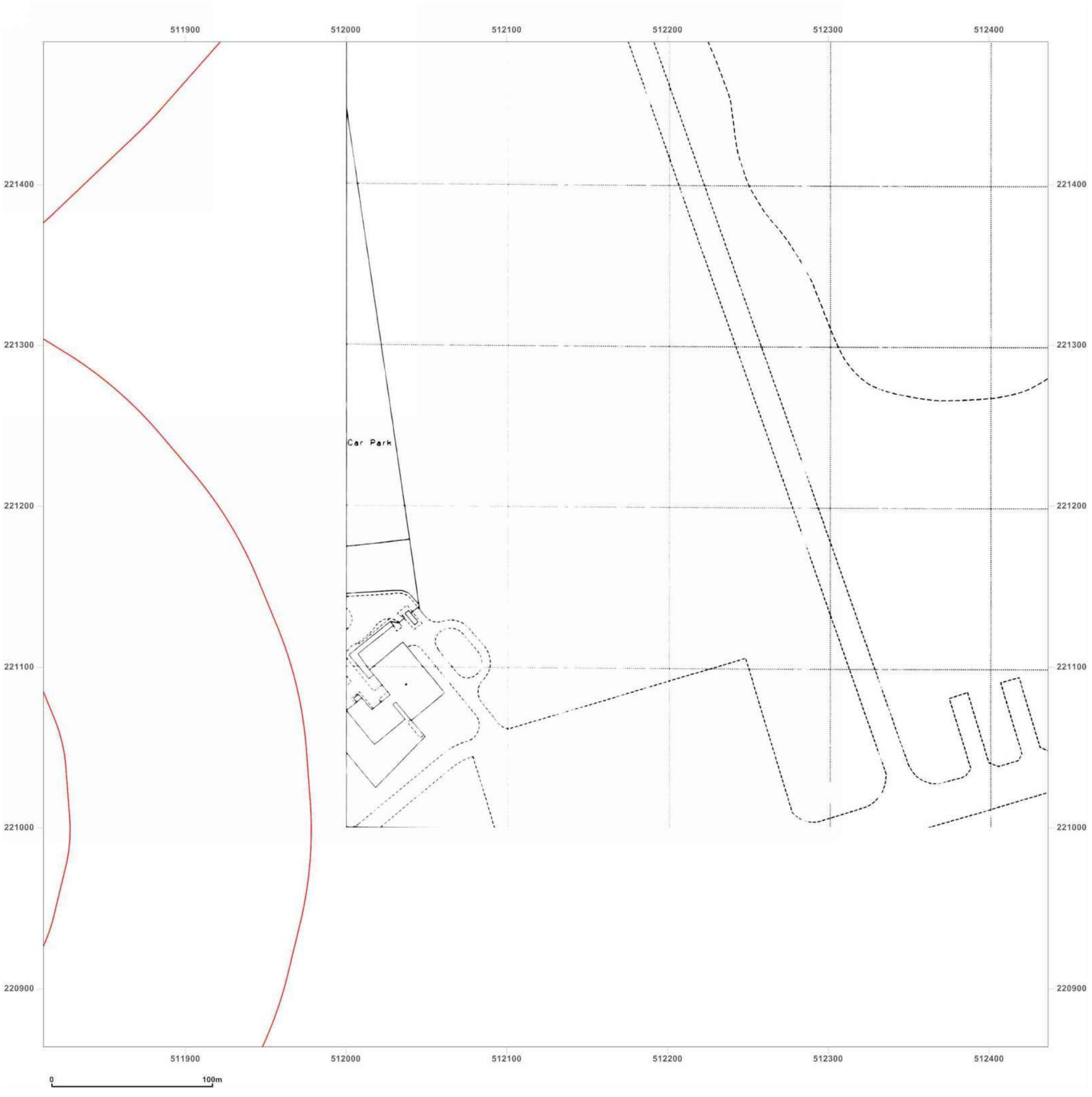

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_2
Grid Ref: 512124, 221176

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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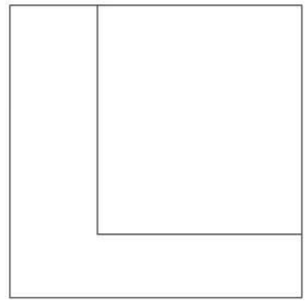
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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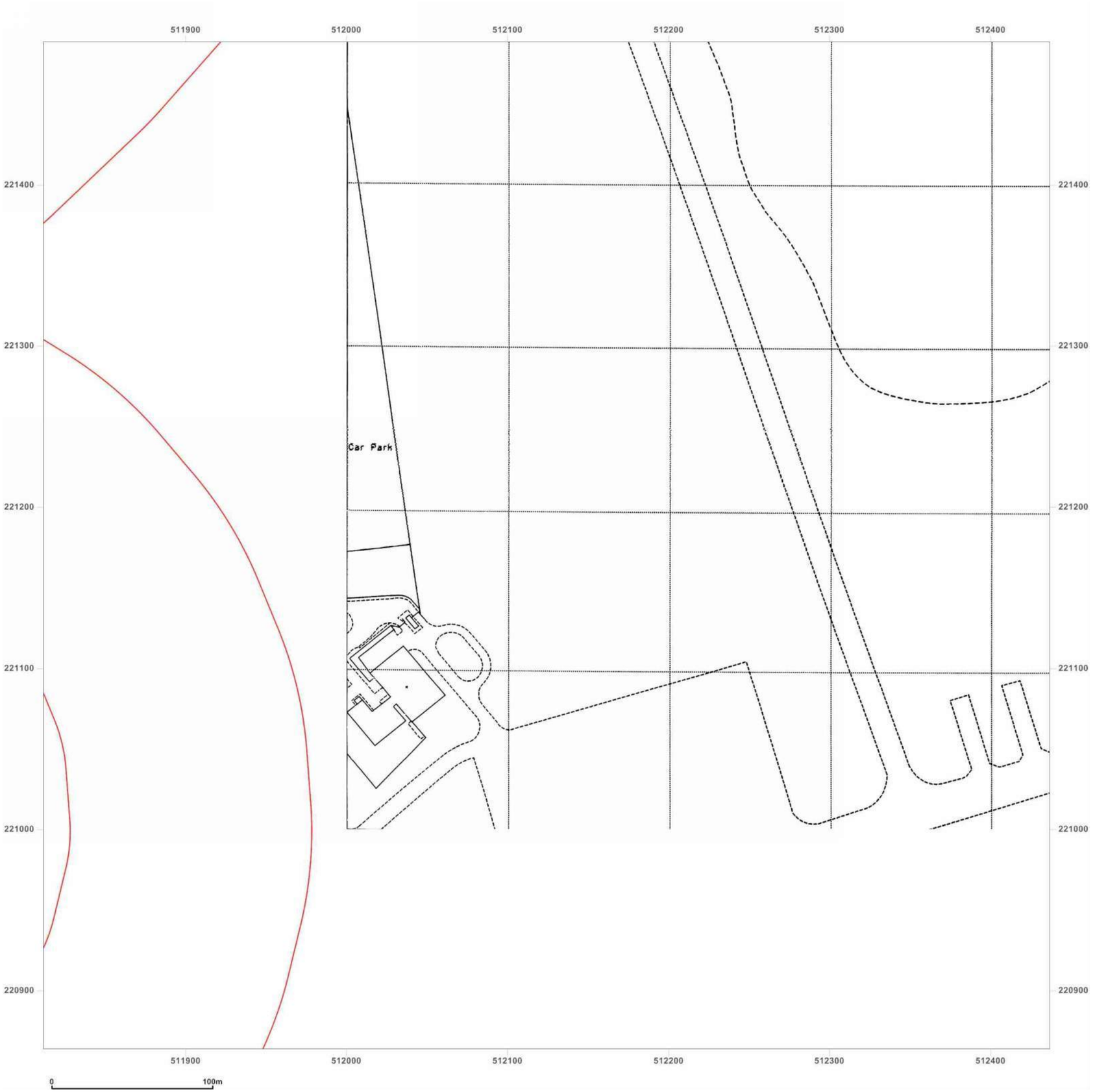

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_2
Grid Ref: 512124, 221176

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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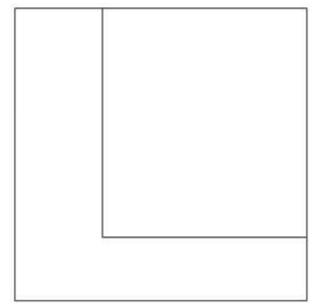
Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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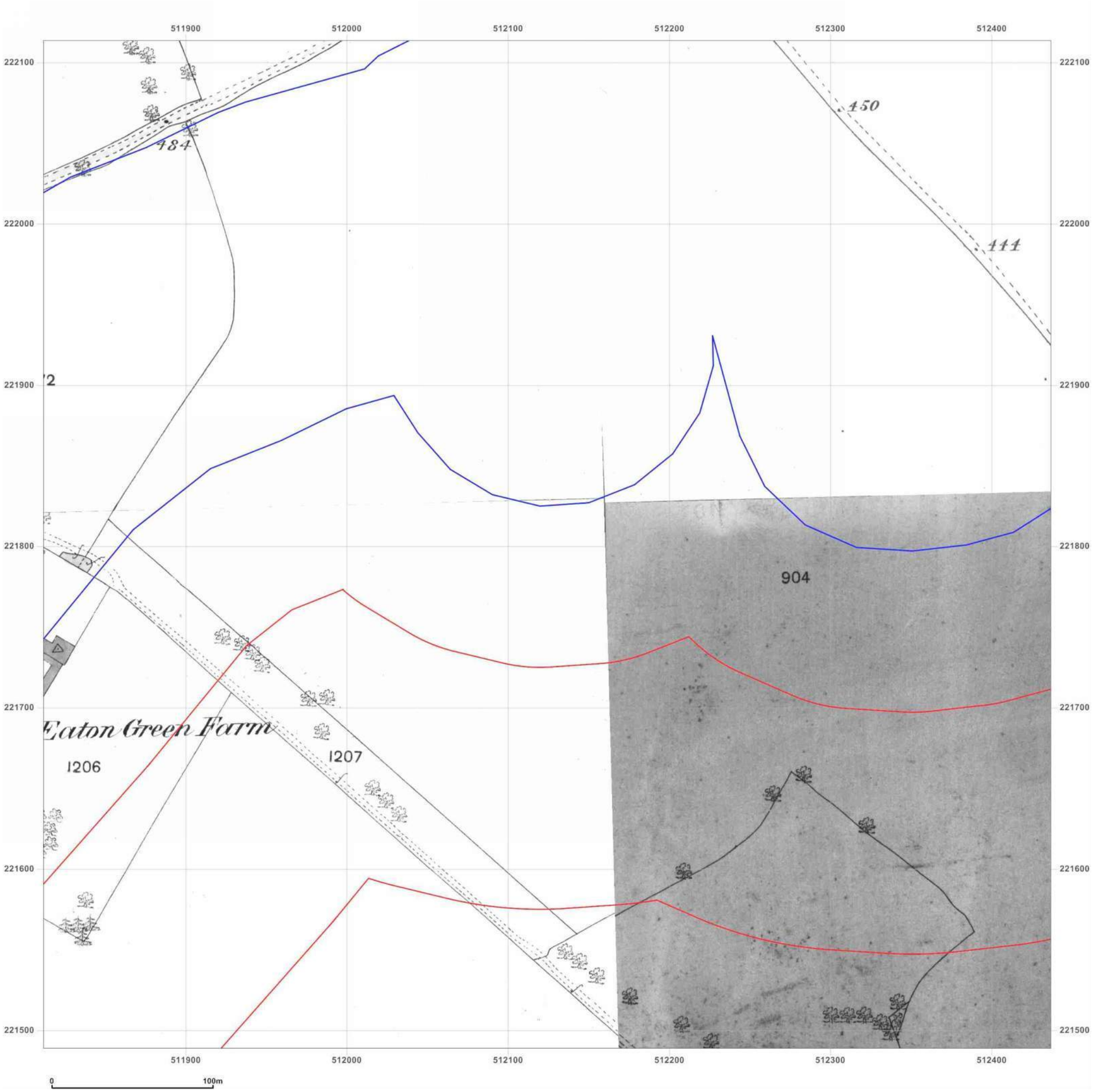

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_3
Grid Ref: 512124, 221801

Map Name: County Series

Map date: **1880-1881**

Scale: 1:2,500

Printed at: 1:2,500

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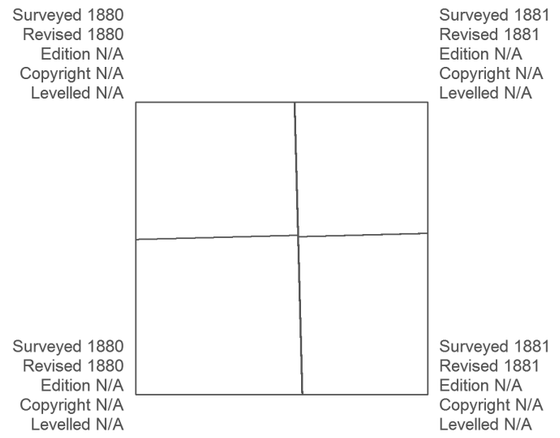

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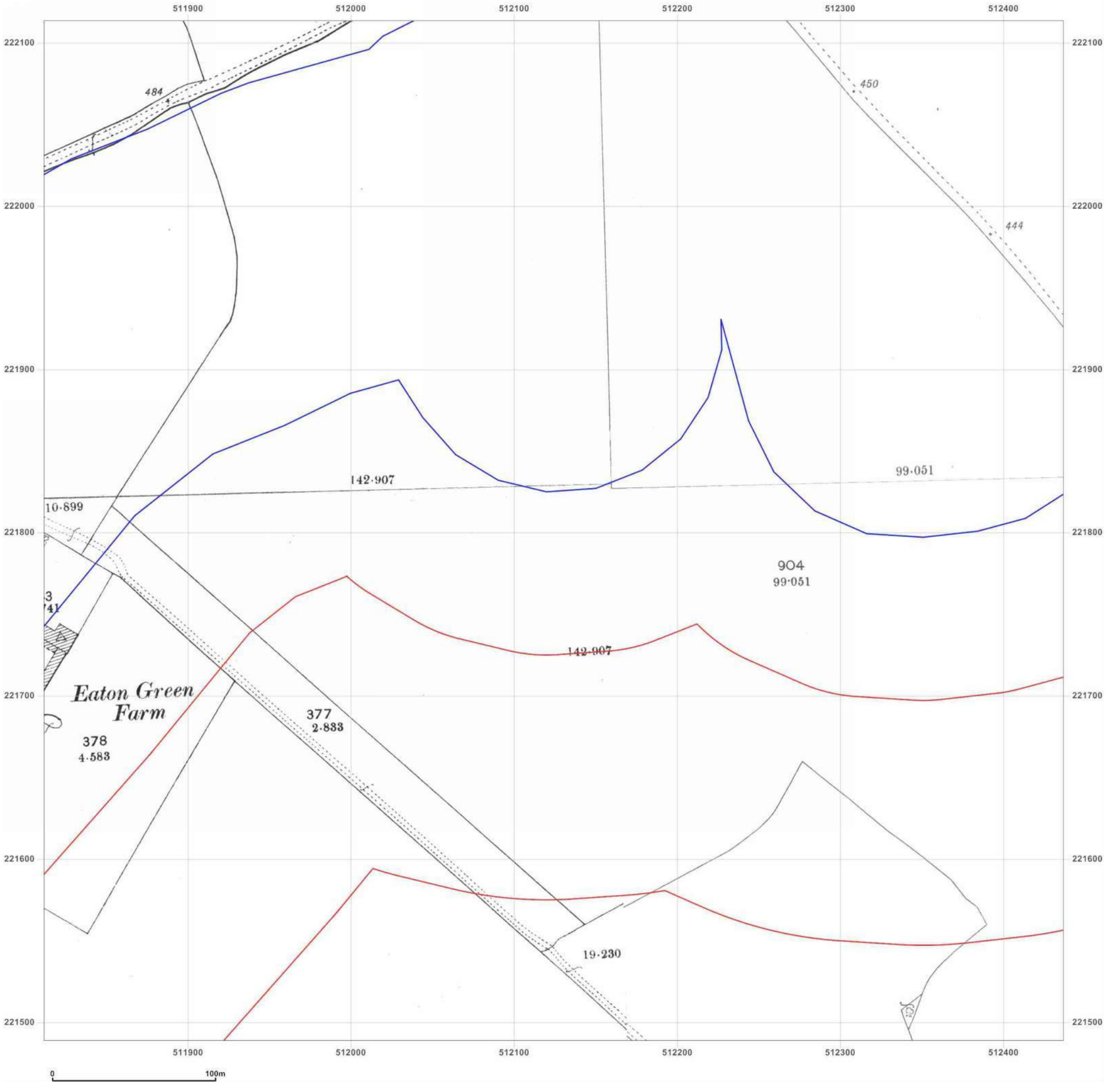

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_3
Grid Ref: 512124, 221801

Map Name: County Series

Map date: **1898-1901**

Scale: 1:2,500

Printed at: 1:2,500

N
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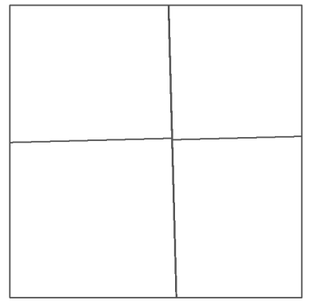
Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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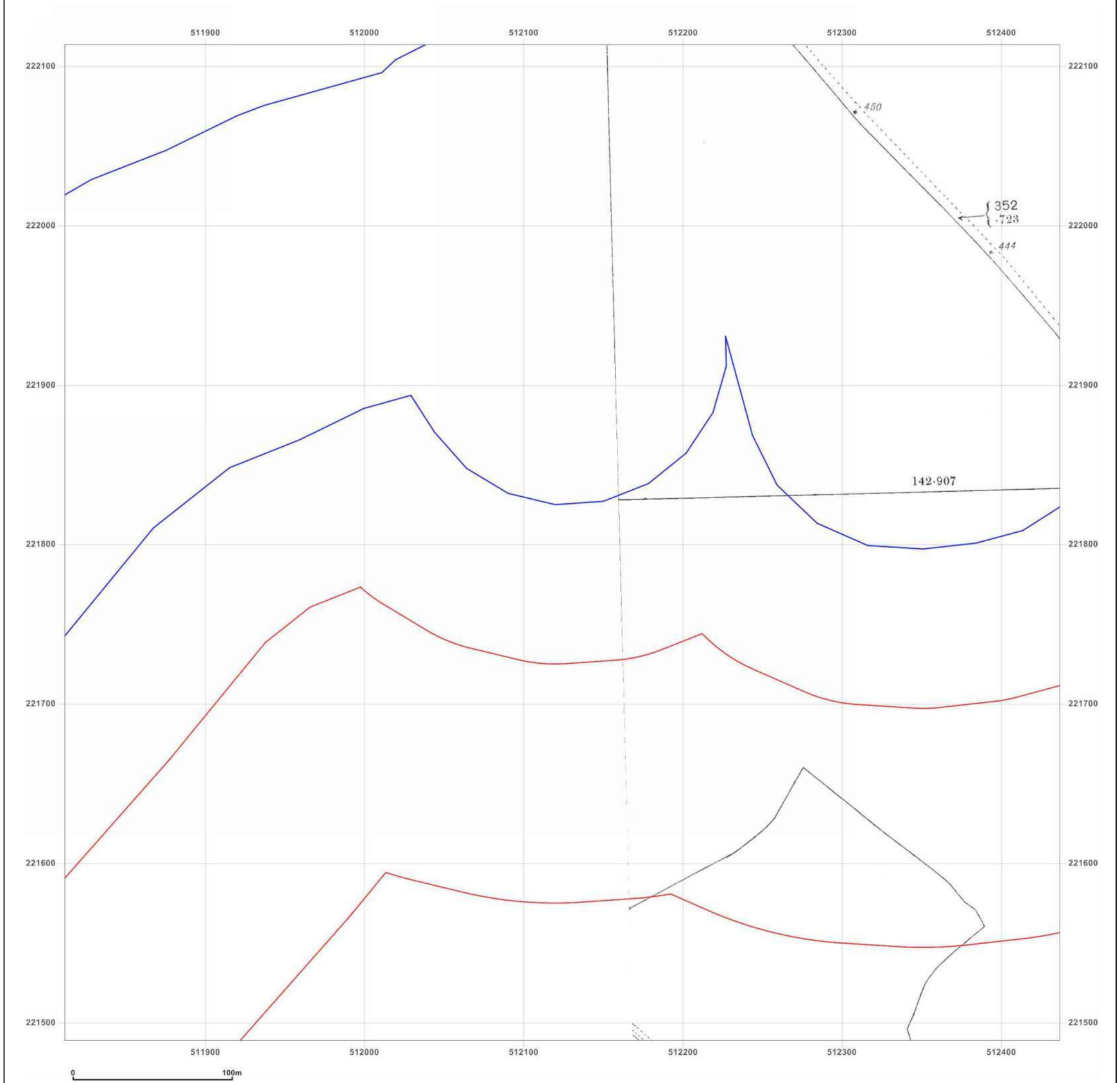

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_3
Grid Ref: 512124, 221801

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
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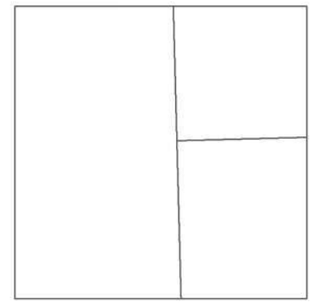
Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
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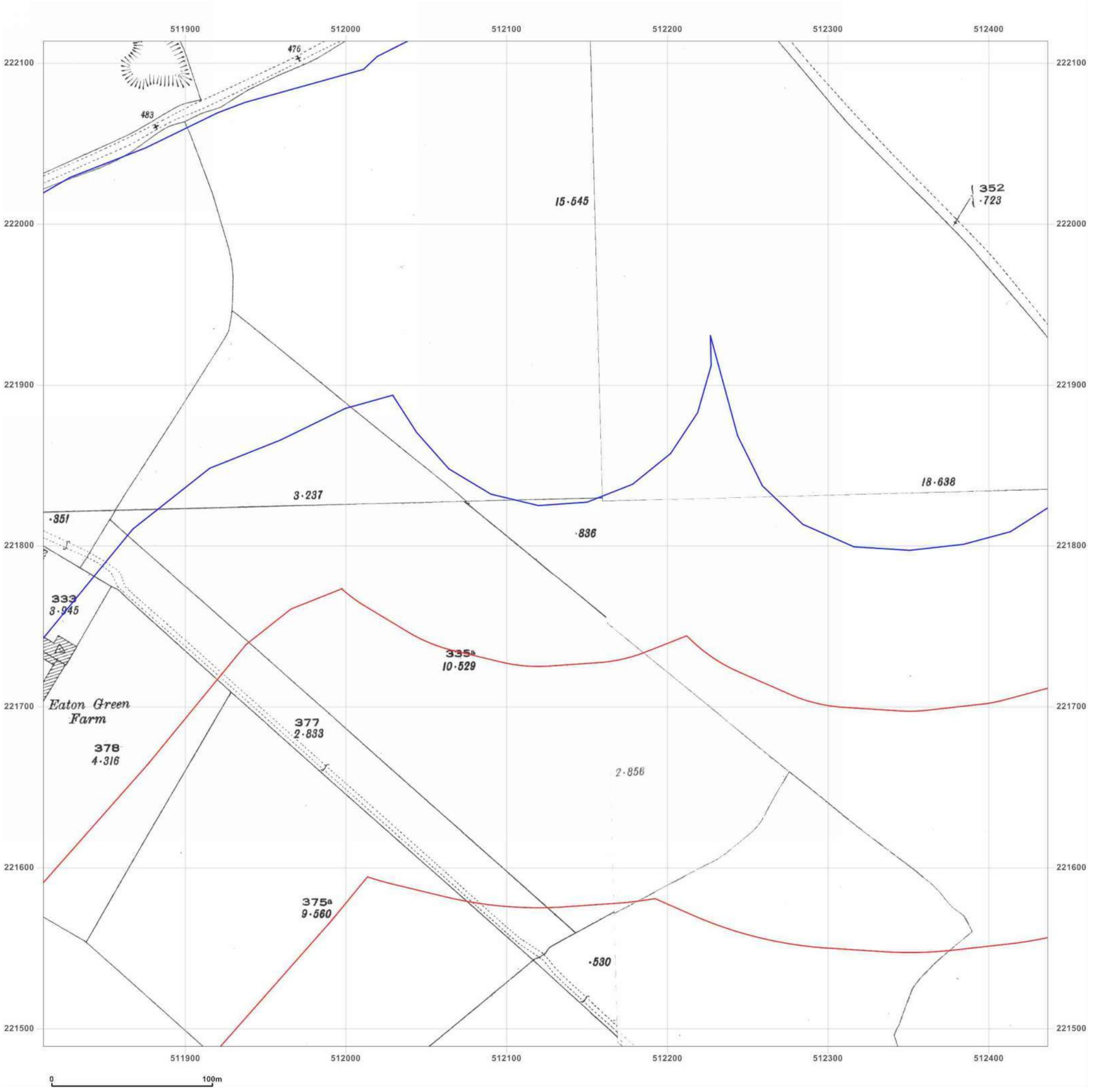

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_3
Grid Ref: 512124, 221801

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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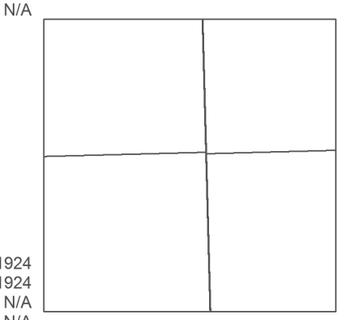
Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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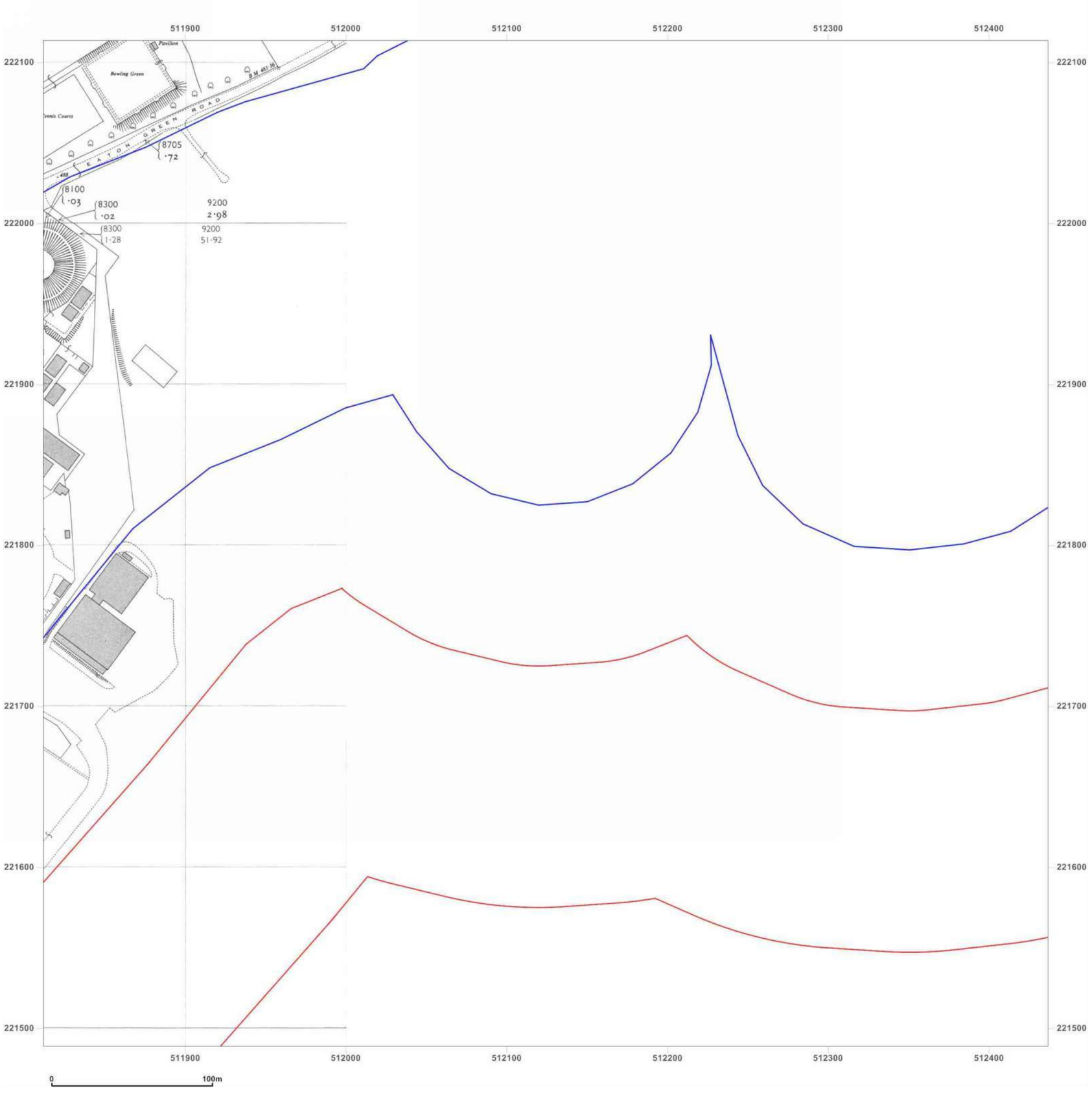

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_3
Grid Ref: 512124, 221801

Map Name: National Grid

Map date: **1961-1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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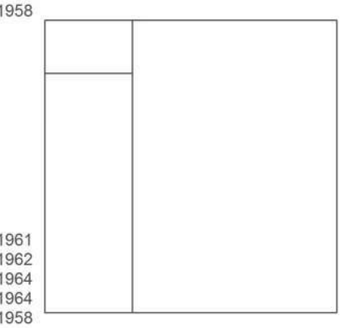
Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1958



Surveyed 1961
Revised 1962
Edition 1964
Copyright 1964
Levelled 1958

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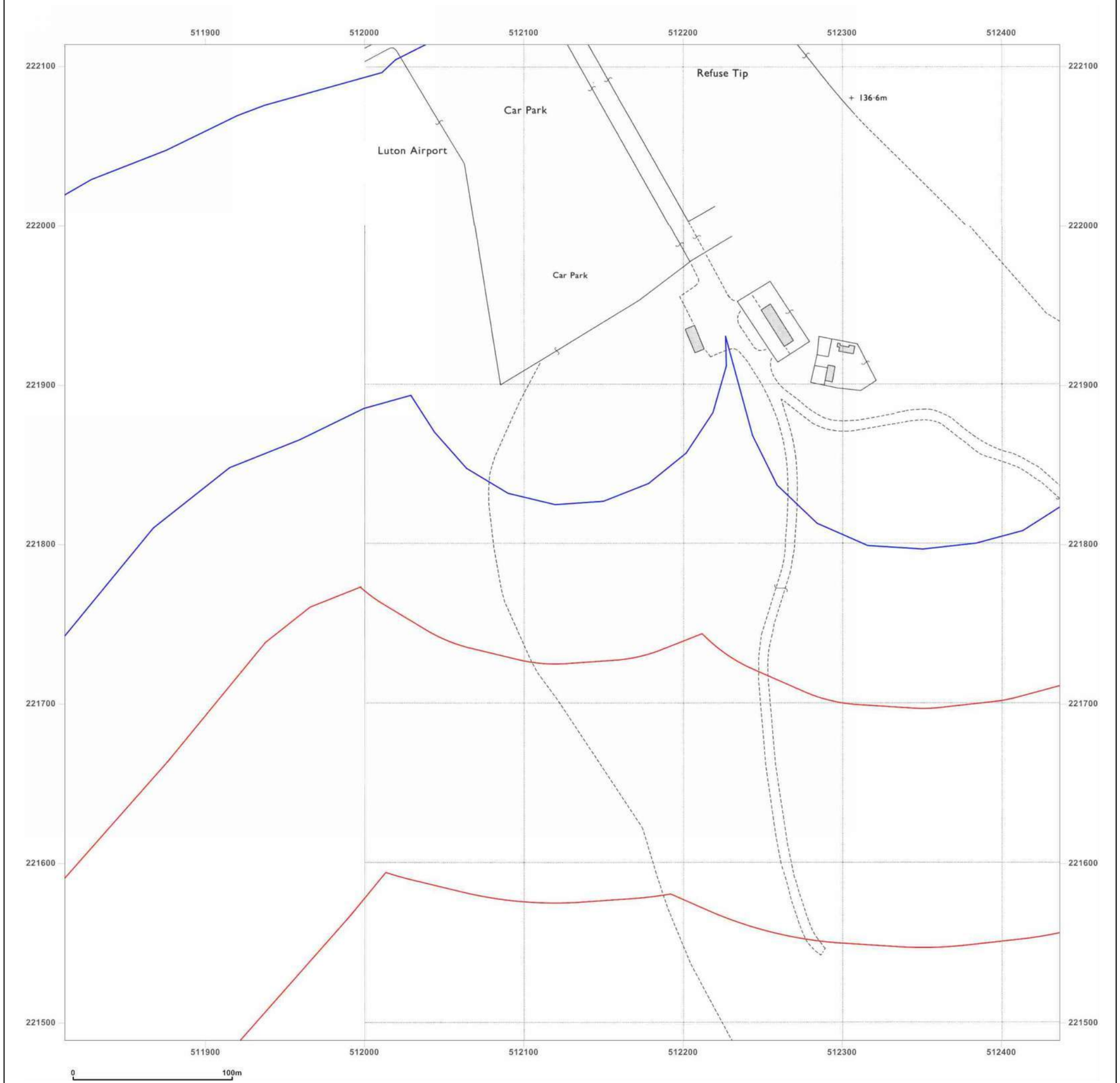

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_3
Grid Ref: 512124, 221801

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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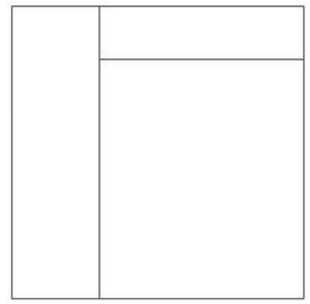
Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958



Surveyed 1971
Revised 1971
Edition N/A
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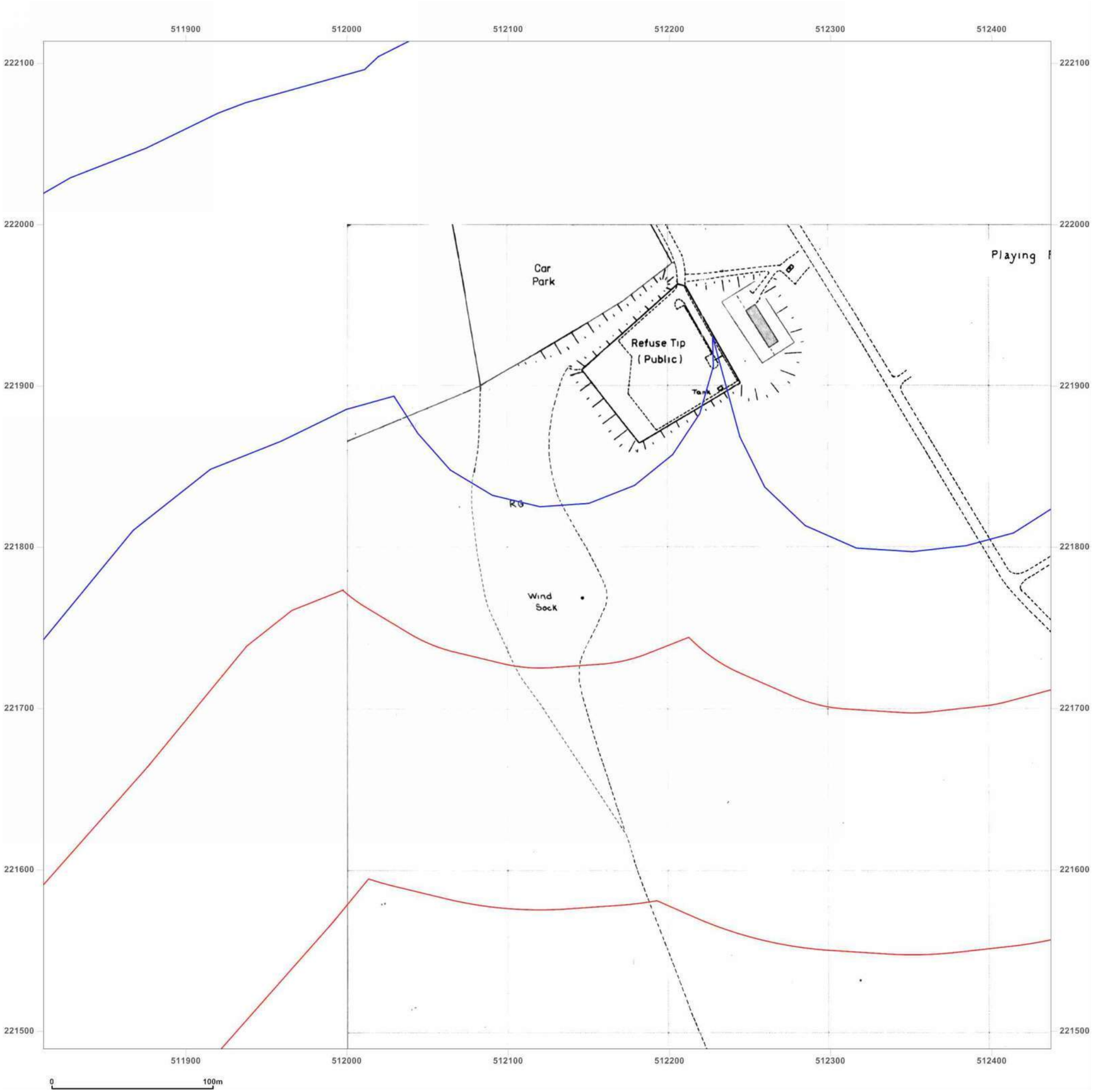

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_3
Grid Ref: 512124, 221801

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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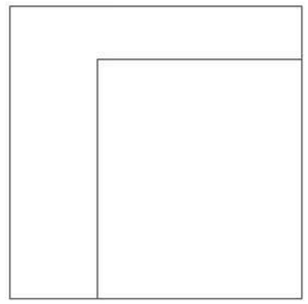

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Production date: 23 November 2020

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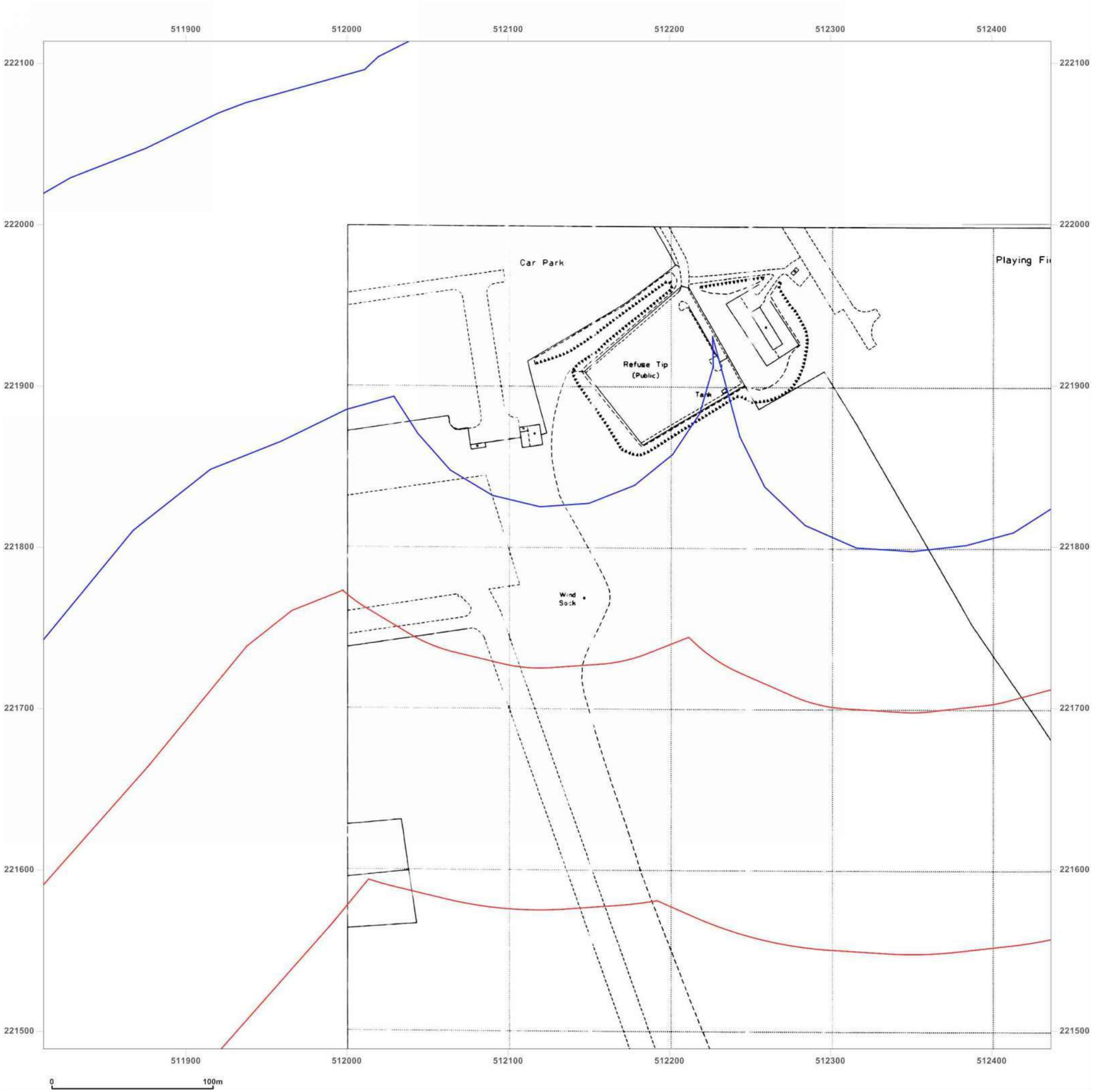


Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_3
Grid Ref: 512124, 221801

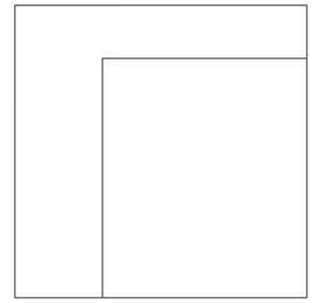
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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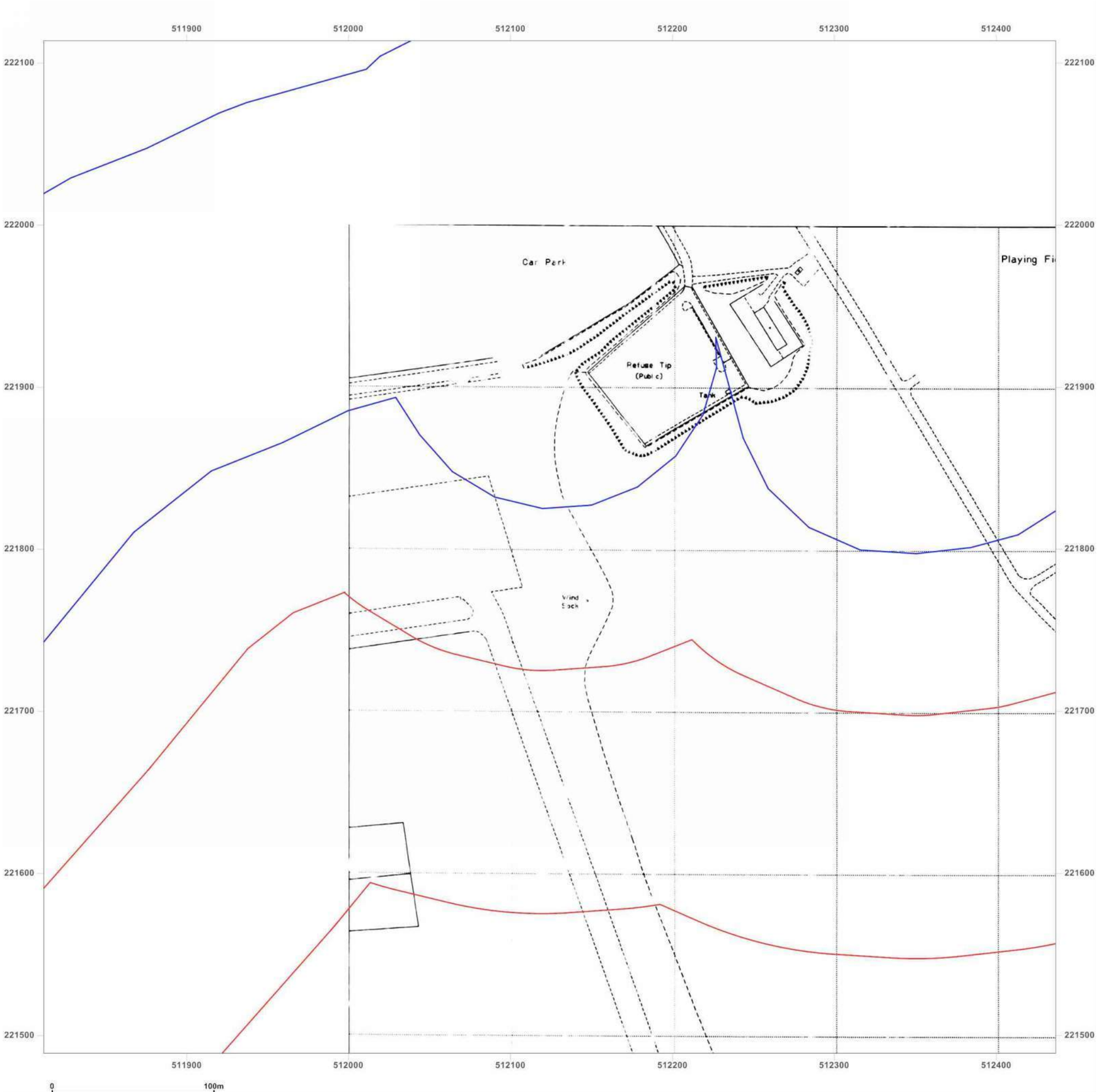

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_3
Grid Ref: 512124, 221801

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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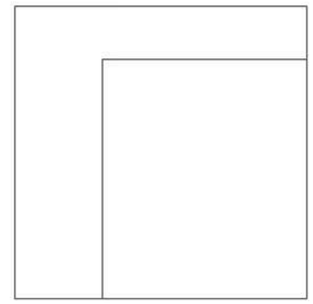

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

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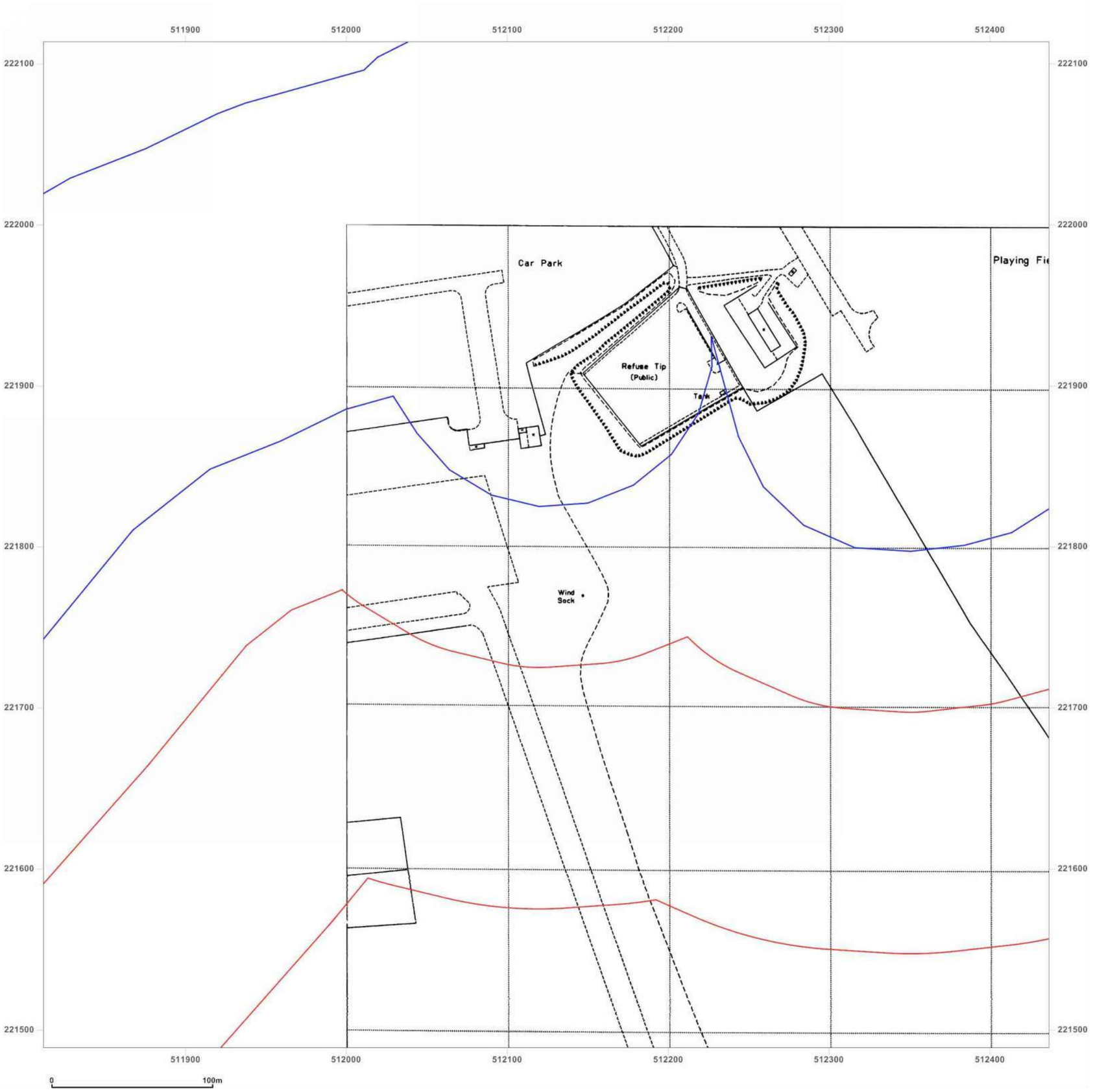

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_3
Grid Ref: 512124, 221801

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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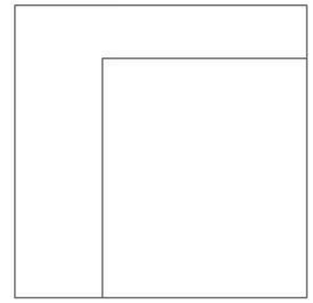

Surveyed N/A
Revised N/A
Edition N/A
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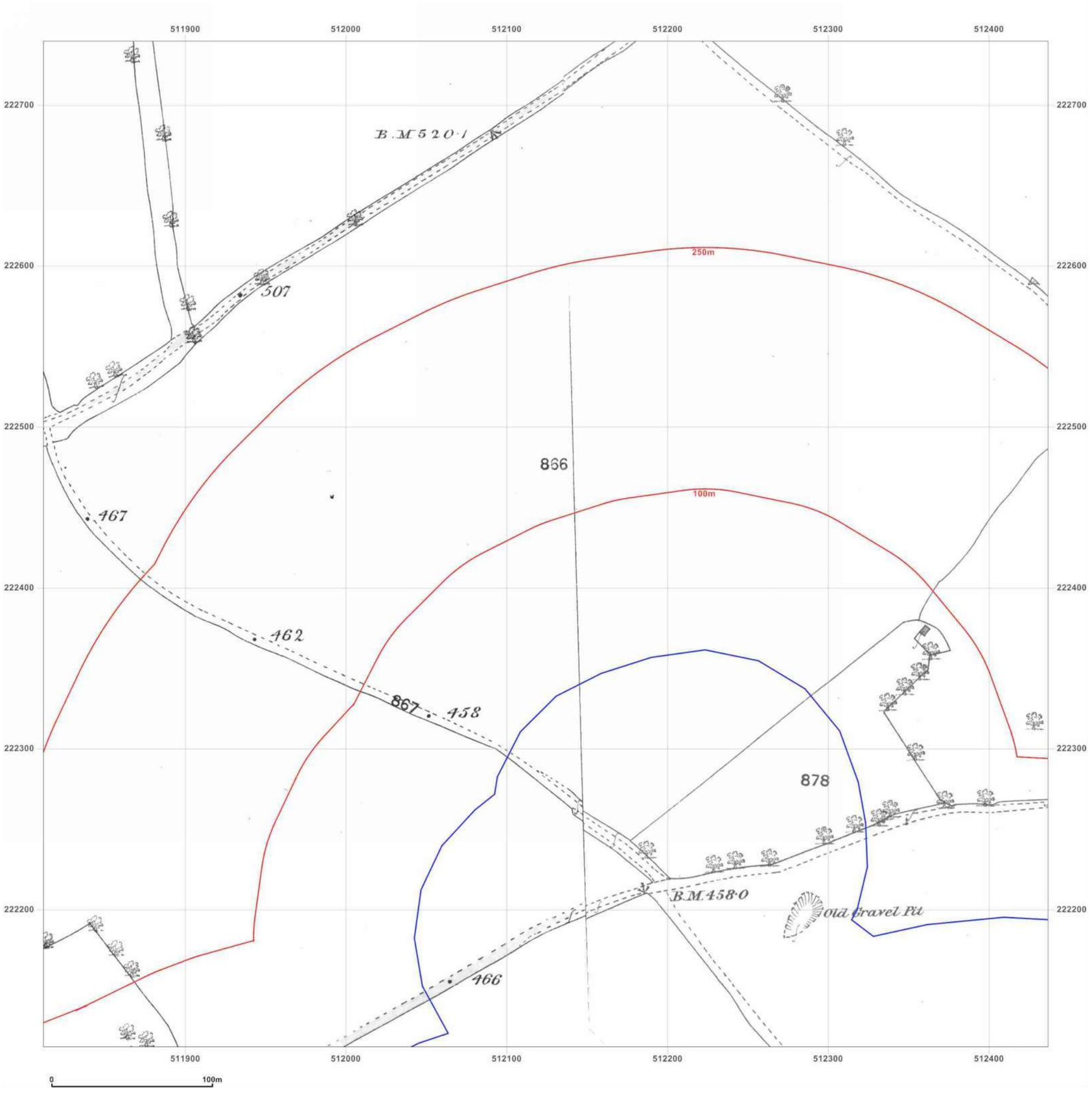

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_4
Grid Ref: 512124, 222427

Map Name: County Series

Map date: **1880-1881**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
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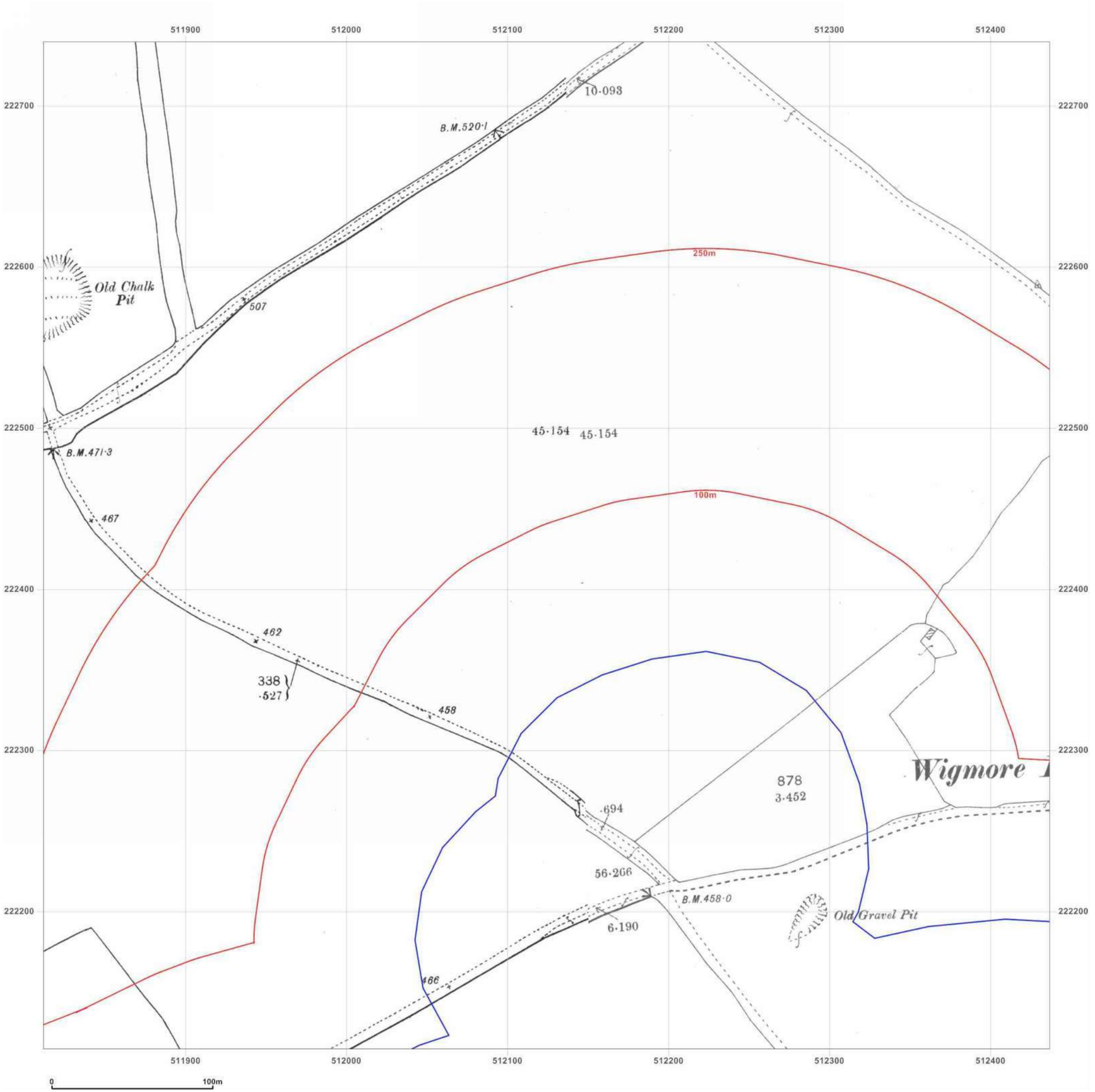

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_4
Grid Ref: 512124, 222427

Map Name: County Series

Map date: **1898-1901**

Scale: 1:2,500

Printed at: 1:2,500

N
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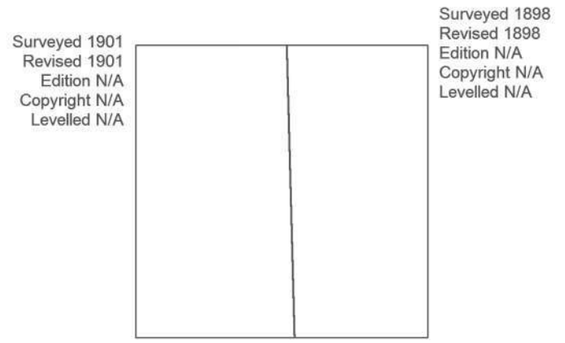

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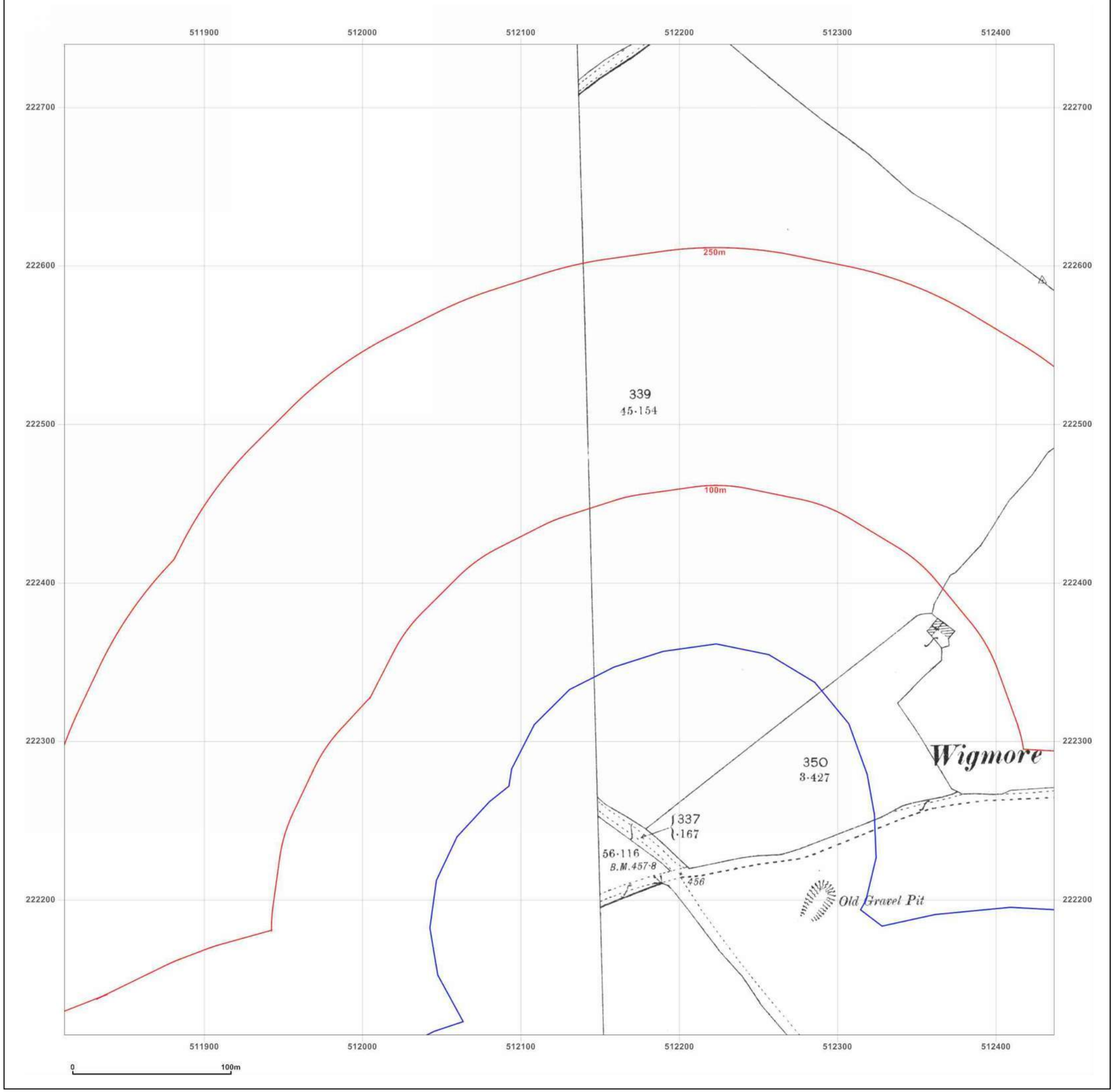

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_4
Grid Ref: 512124, 222427

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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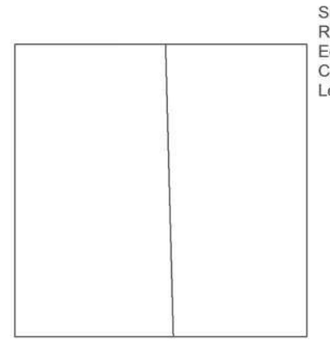

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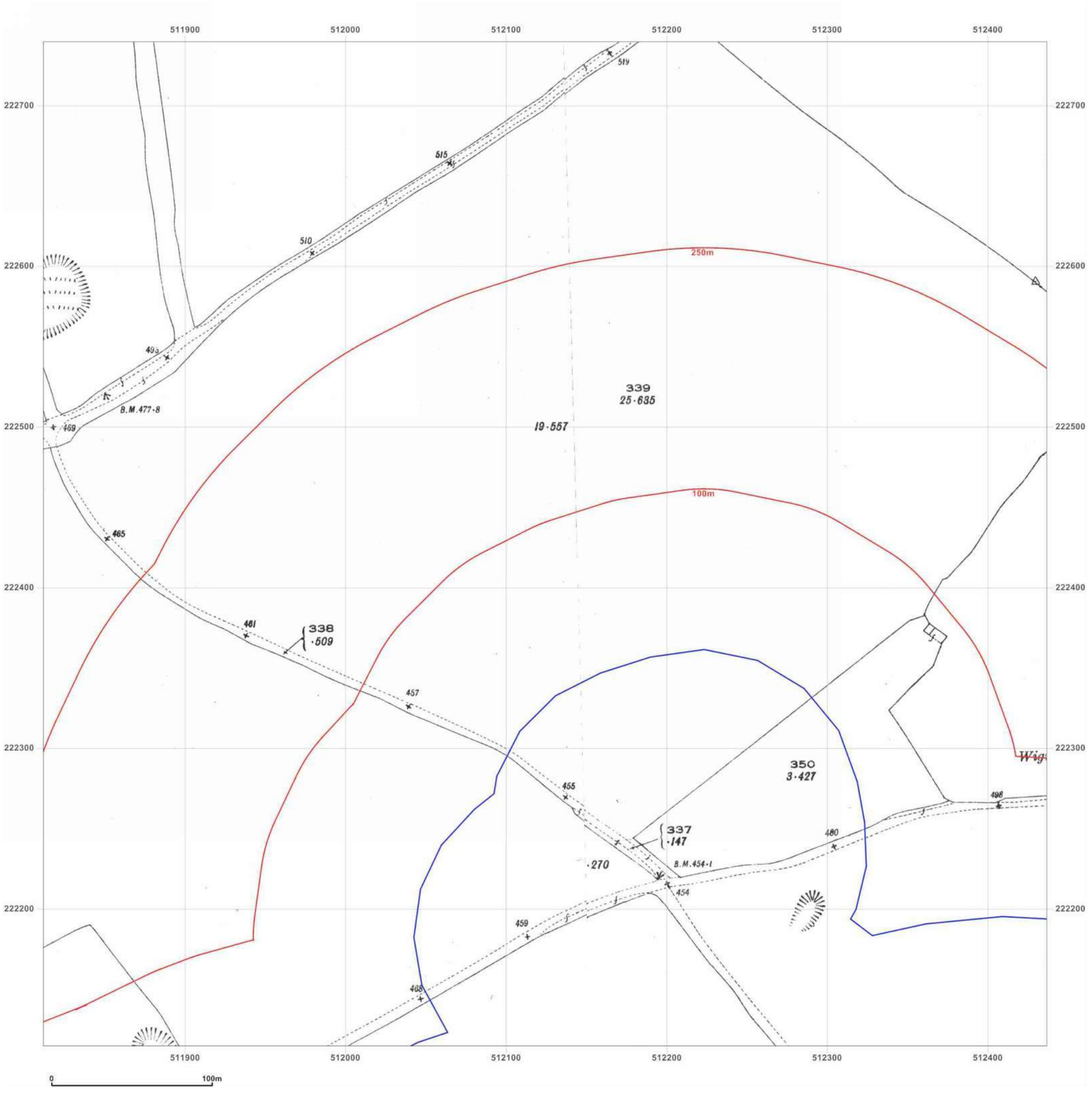

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_4
Grid Ref: 512124, 222427

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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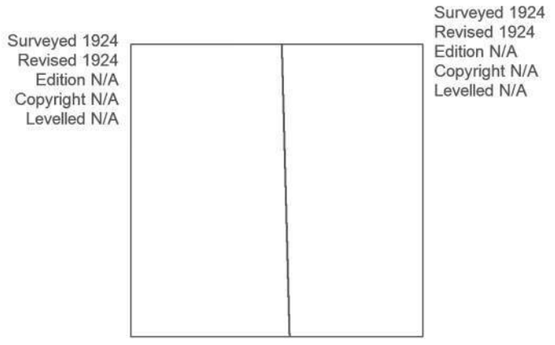
Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



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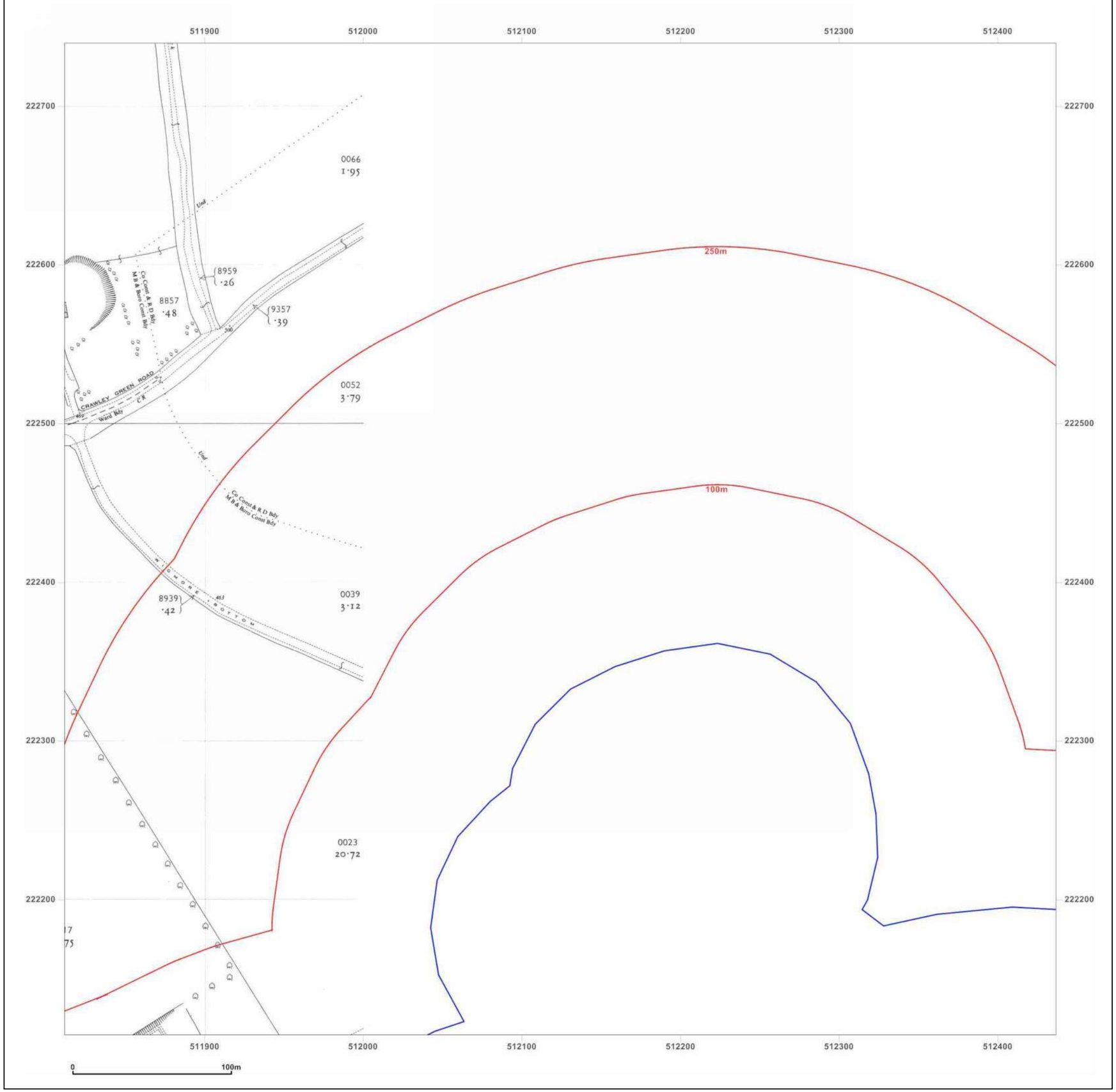

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_4
Grid Ref: 512124, 222427

Map Name: National Grid

Map date: **1961**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1958

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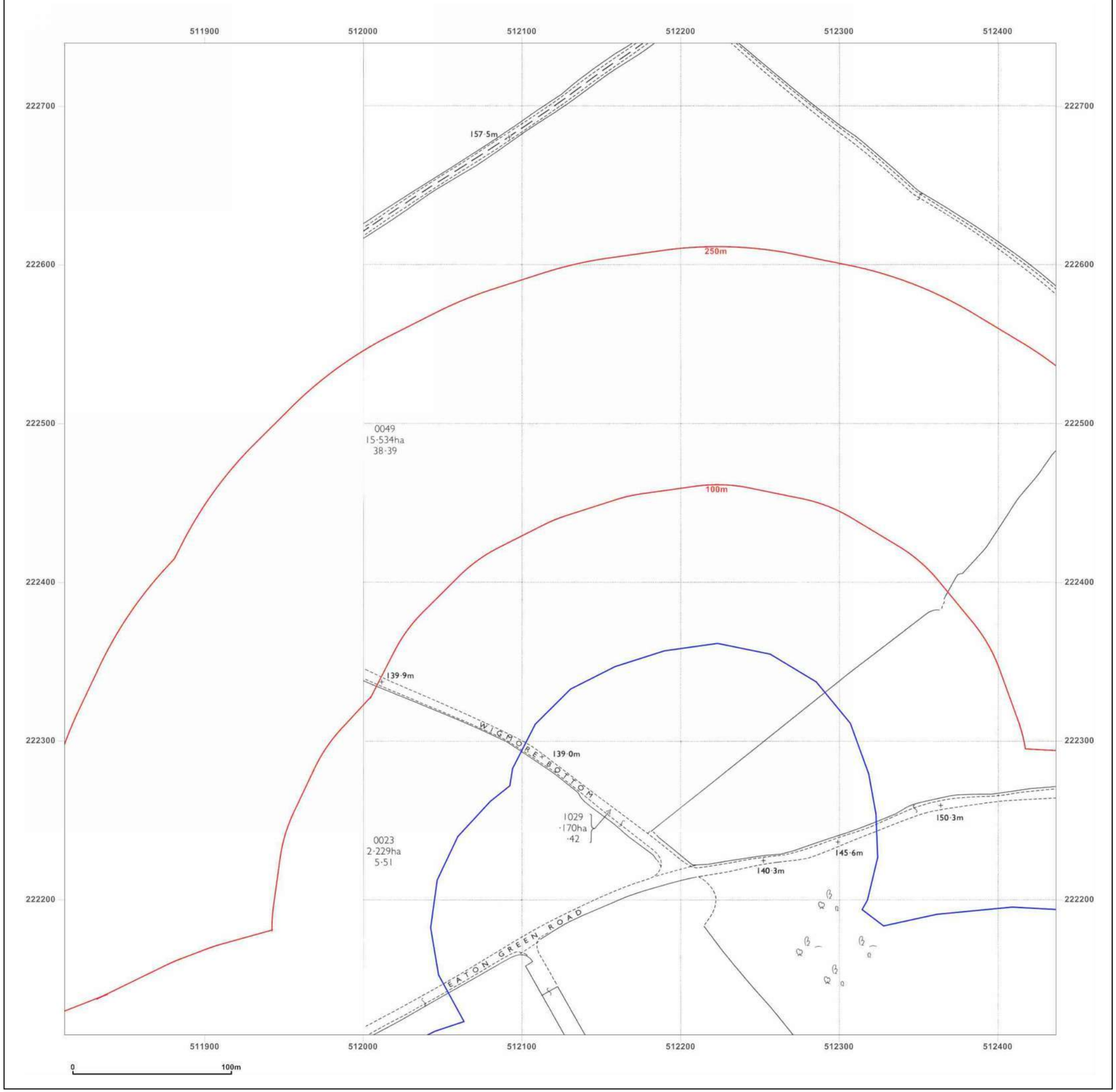

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_3_4
Grid Ref: 512124, 222427

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

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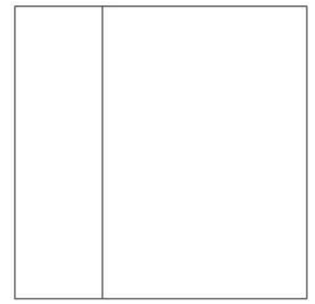

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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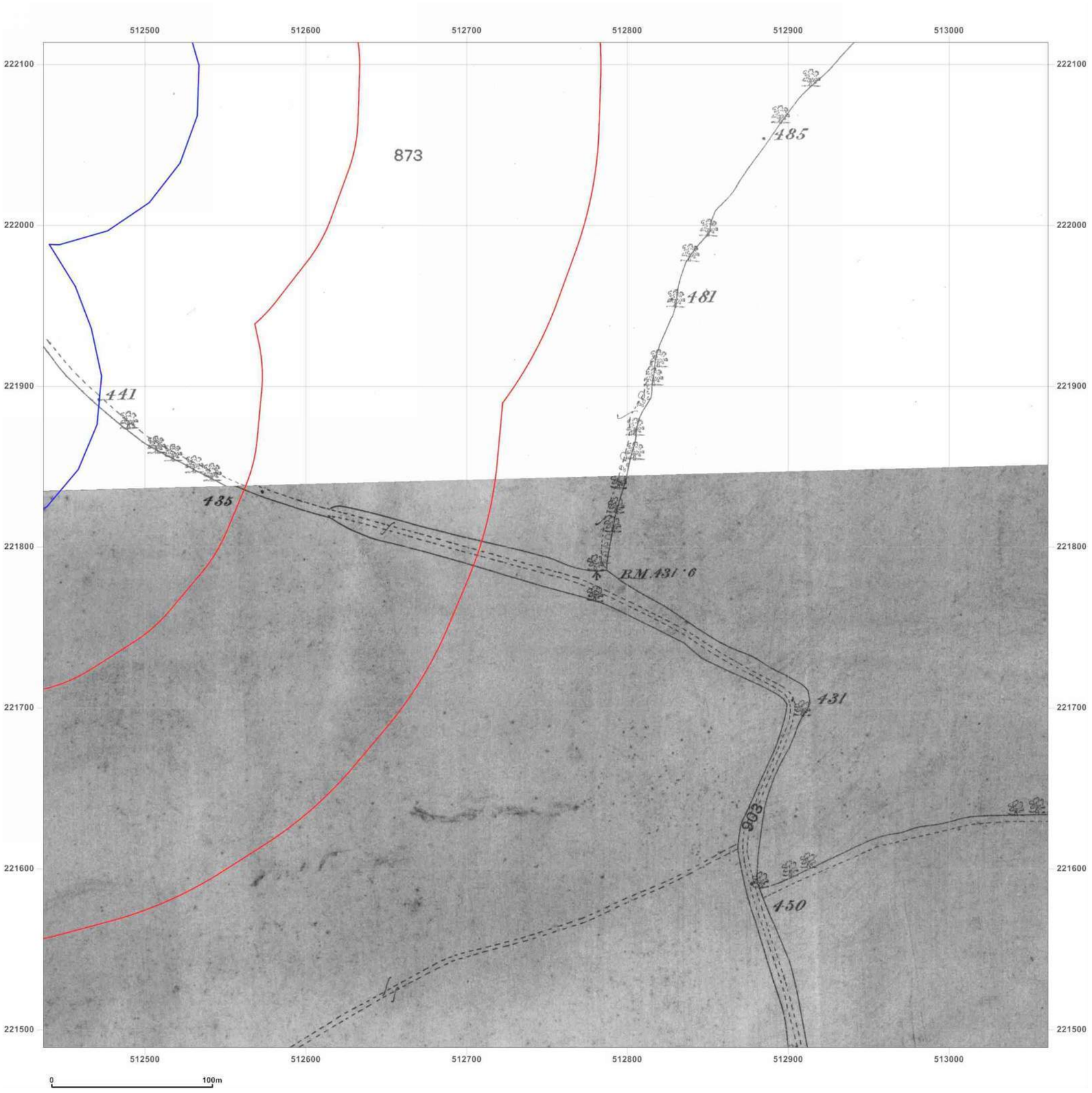

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_3
Grid Ref: 512749, 221801

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

N
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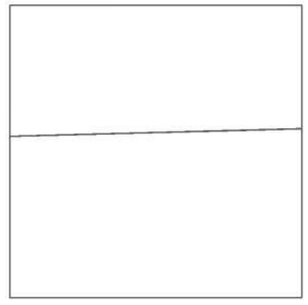
Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

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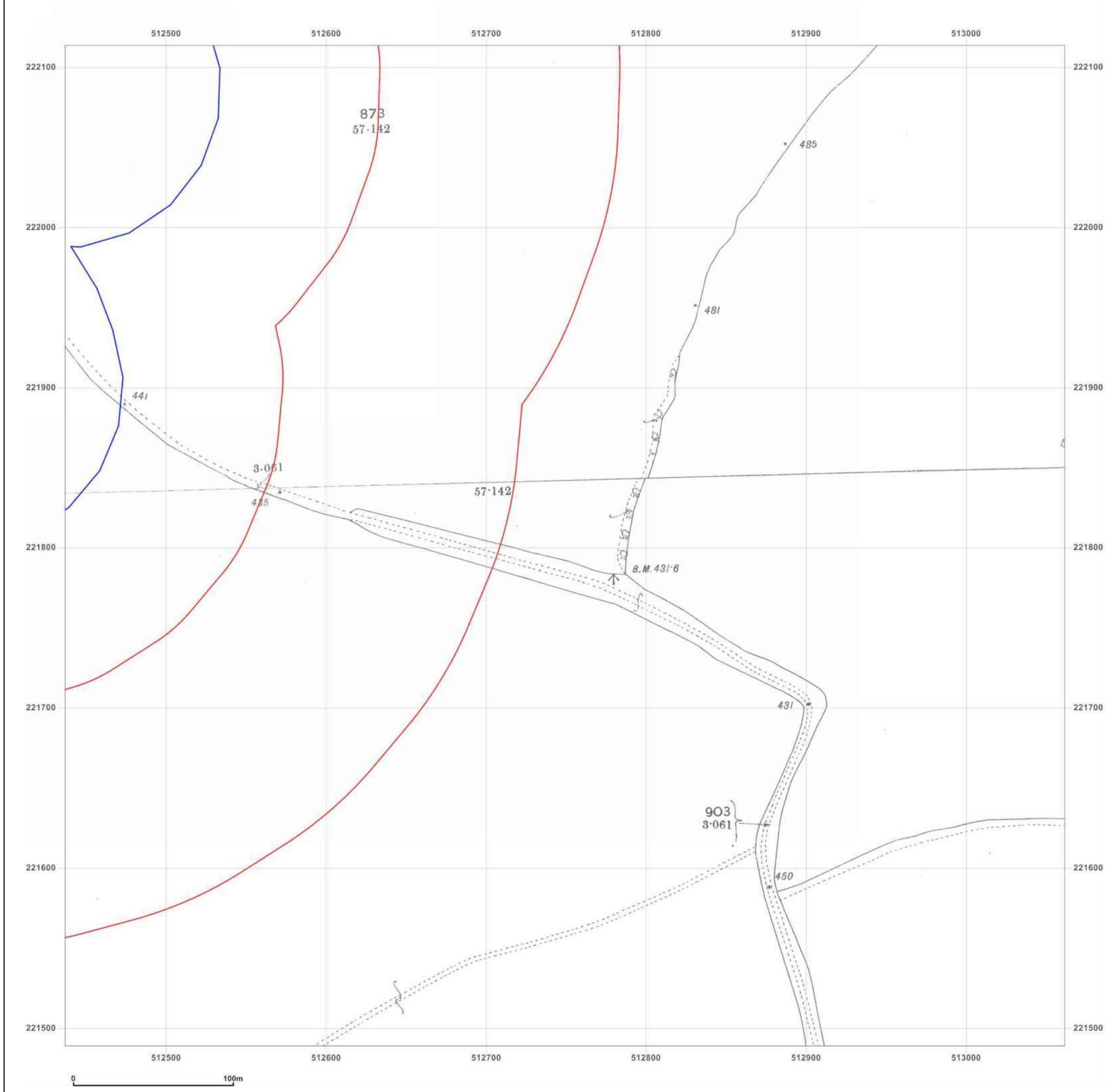

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_3
Grid Ref: 512749, 221801

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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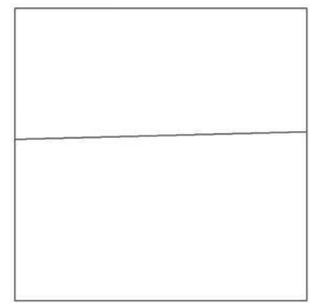

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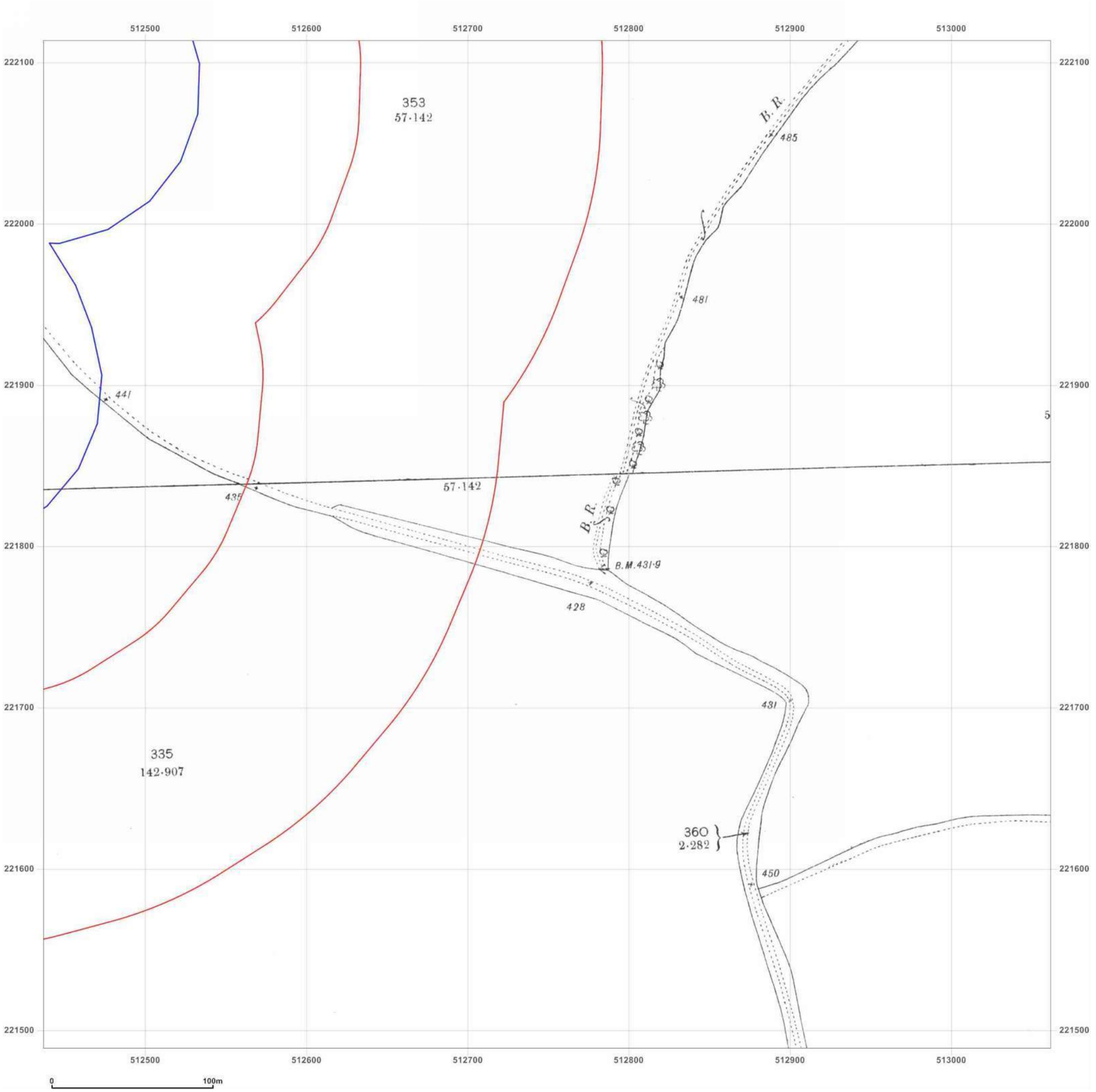

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_3
Grid Ref: 512749, 221801

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
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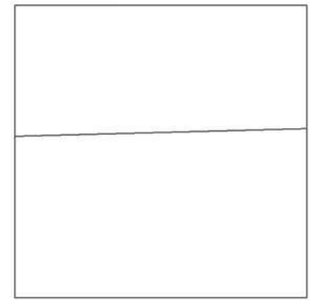

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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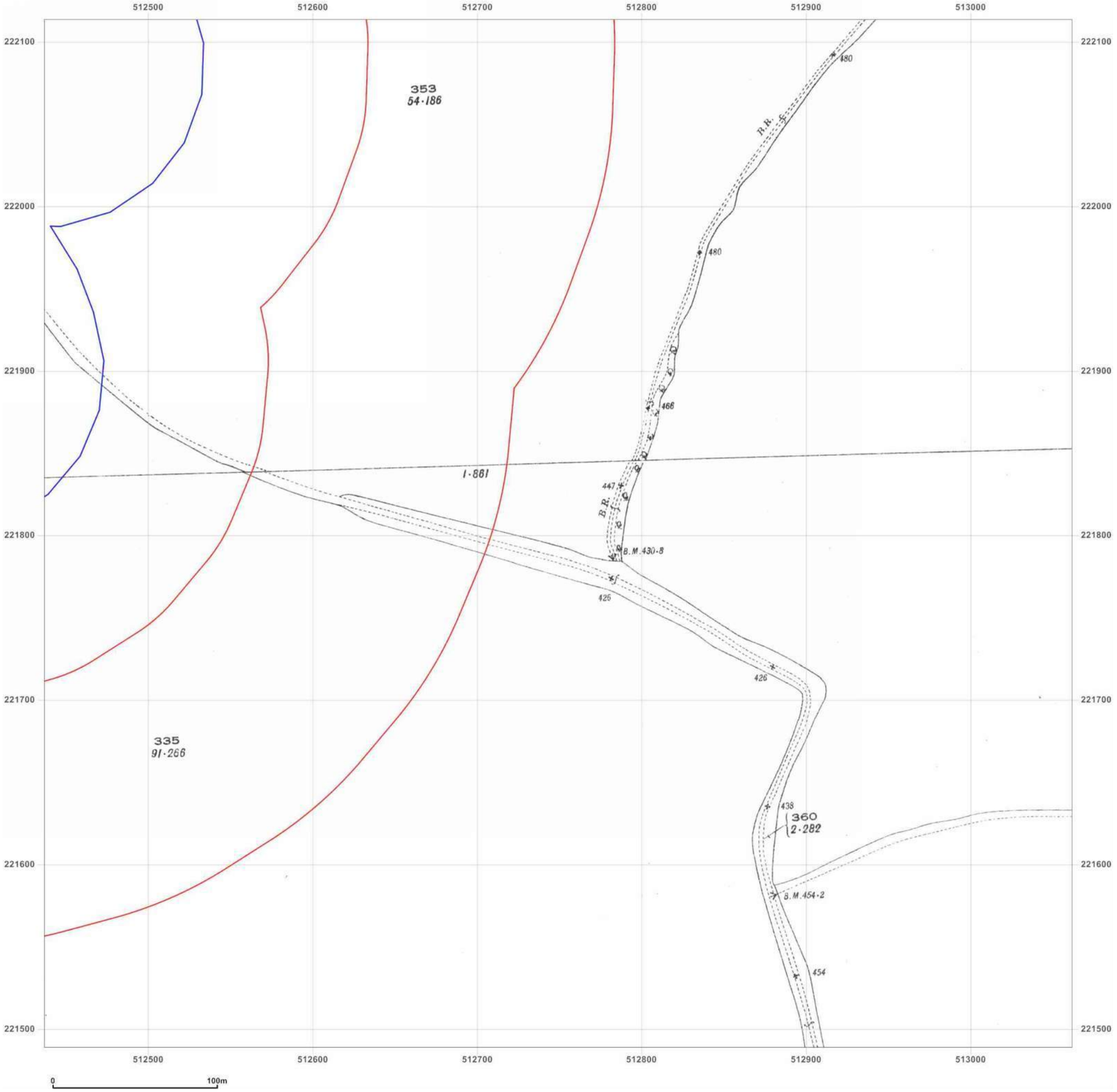

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_3
Grid Ref: 512749, 221801

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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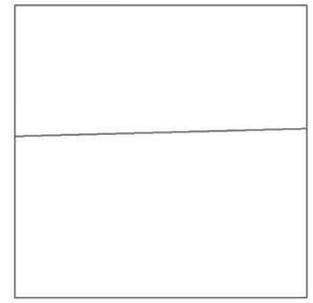
Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1924
Revised 1924
Edition N/A
Copyright N/A
Levelled N/A

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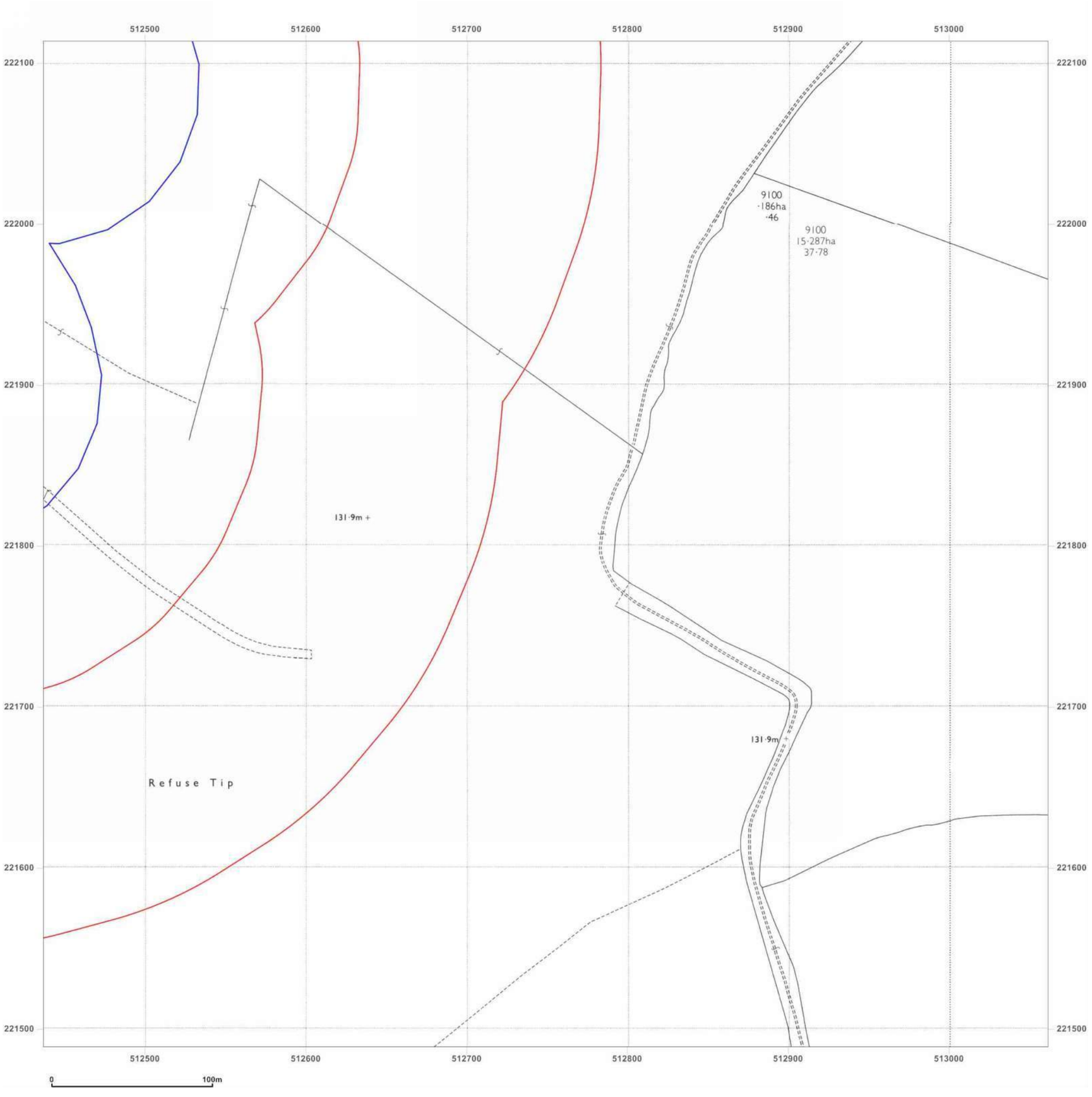

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_3
Grid Ref: 512749, 221801

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

Surveyed 1971
Revised 1971
Edition N/A
Copyright 1972
Levelled 1958

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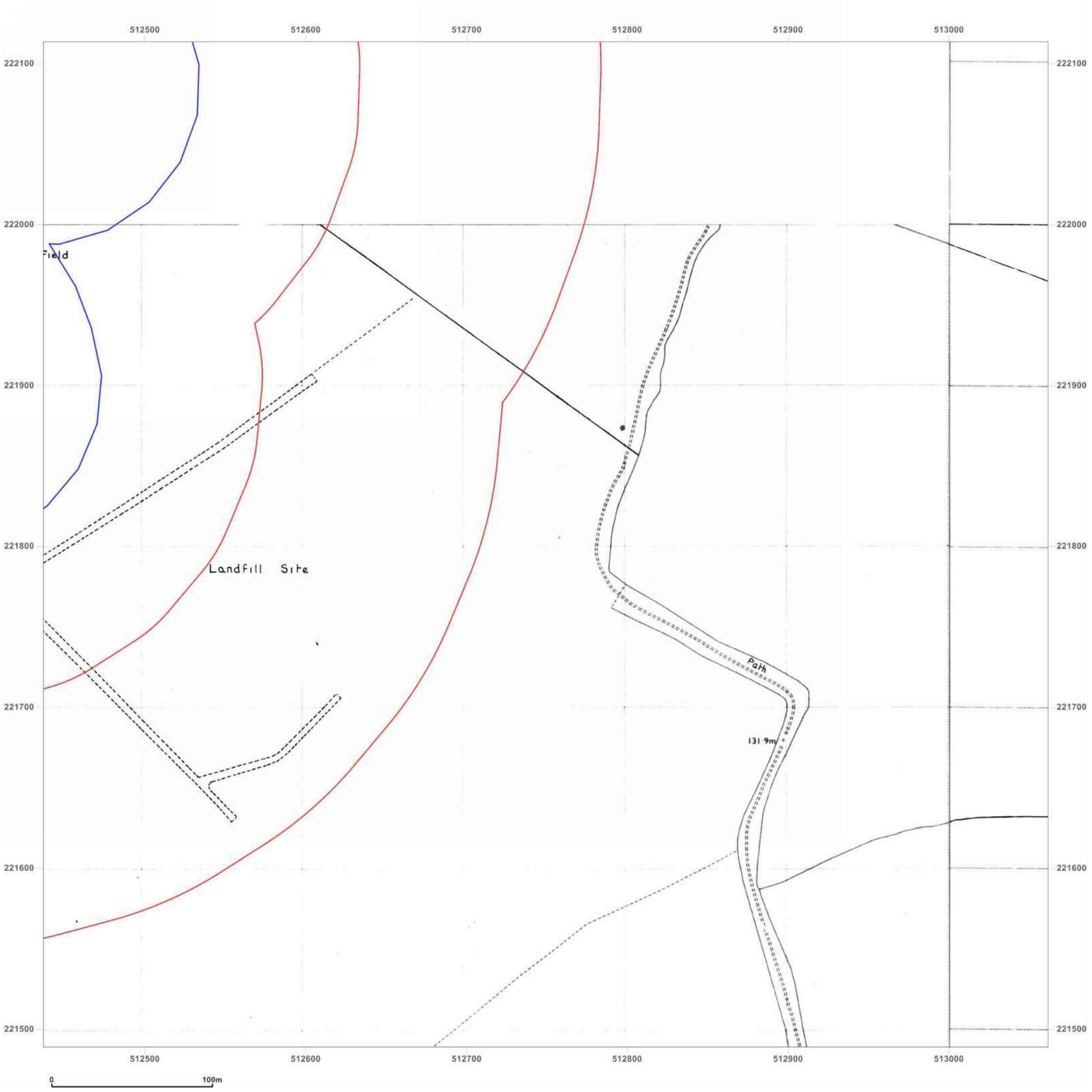

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_3
Grid Ref: 512749, 221801

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised 1992
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
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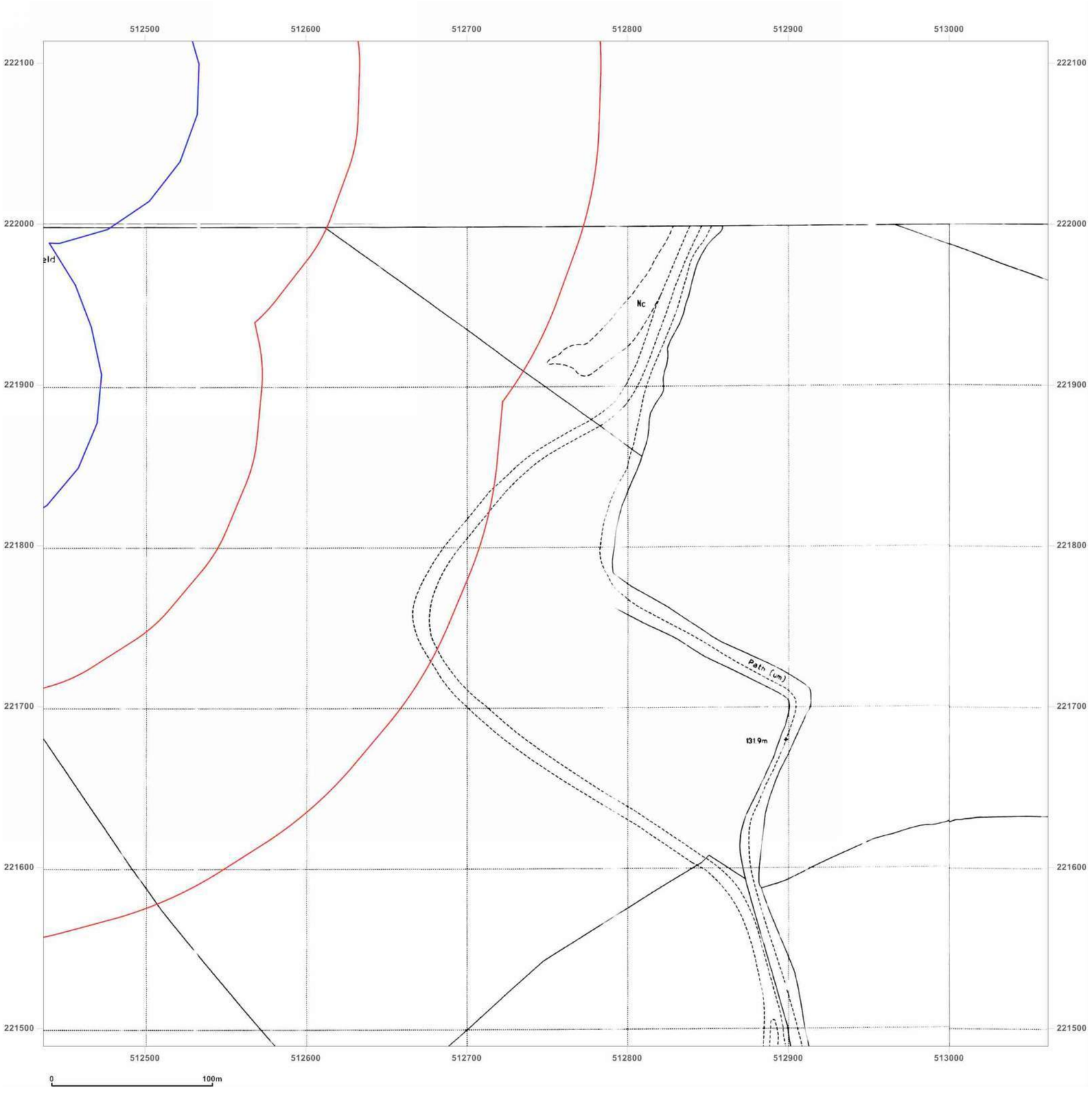

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_3
Grid Ref: 512749, 221801

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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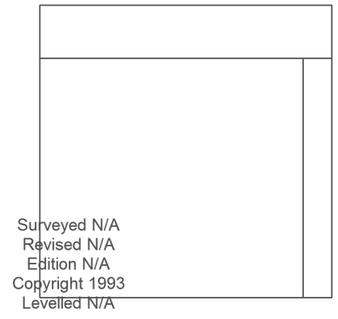

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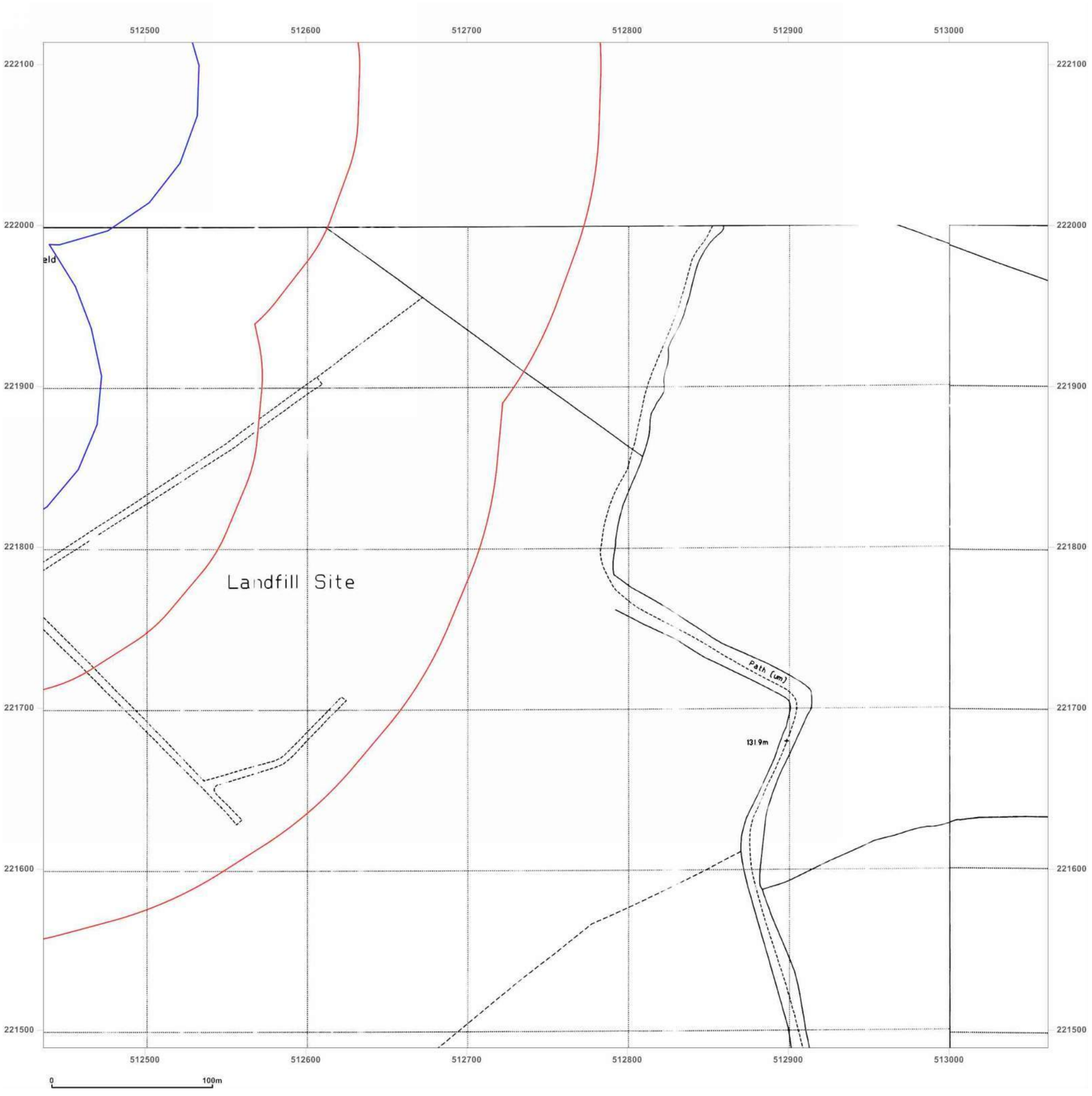

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_3
Grid Ref: 512749, 221801

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

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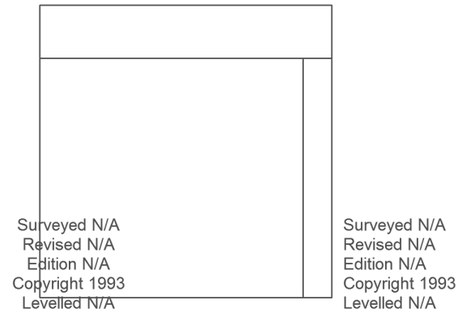

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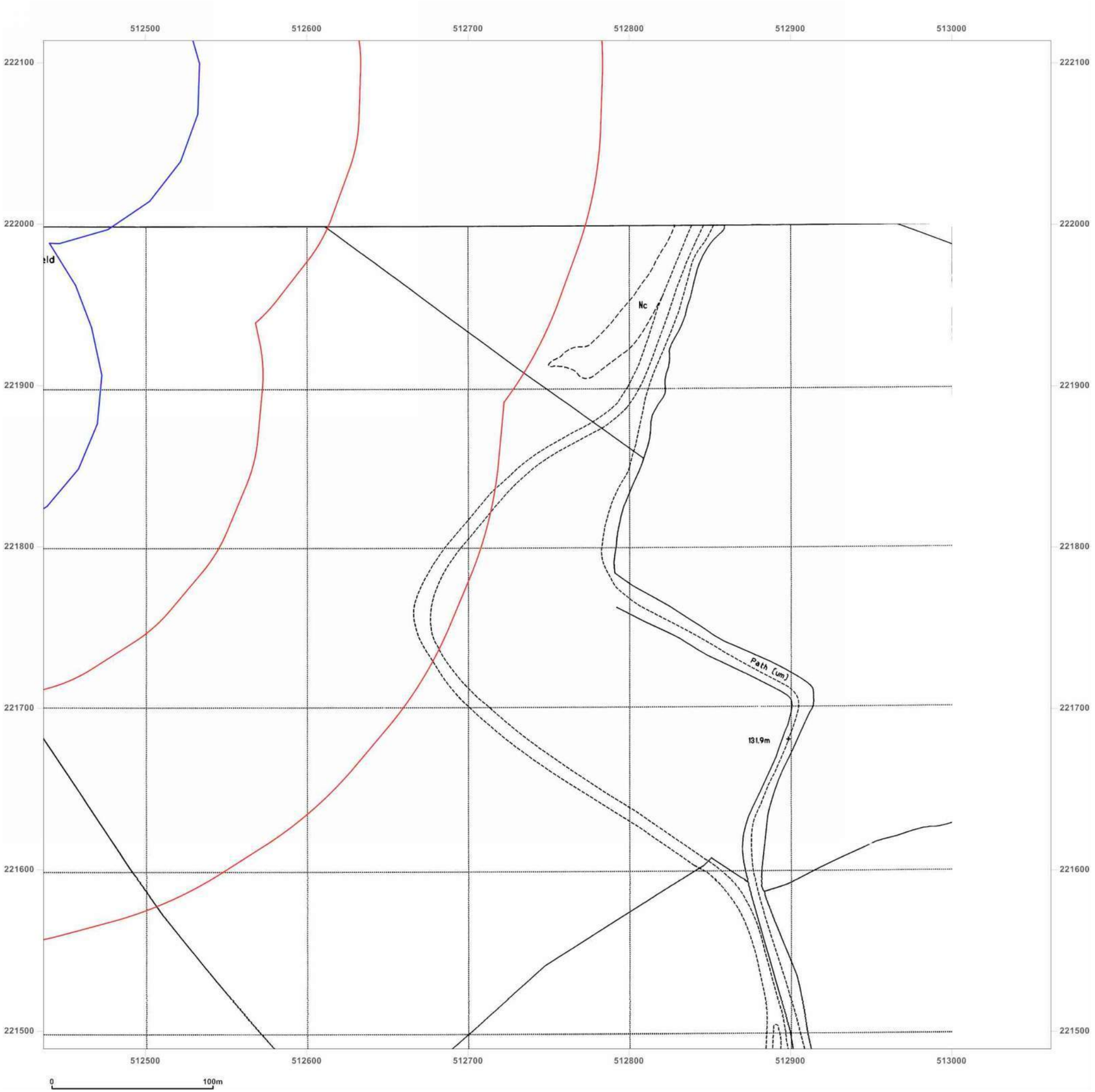

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_3
Grid Ref: 512749, 221801

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed N/A
Revised N/A
Edition N/A
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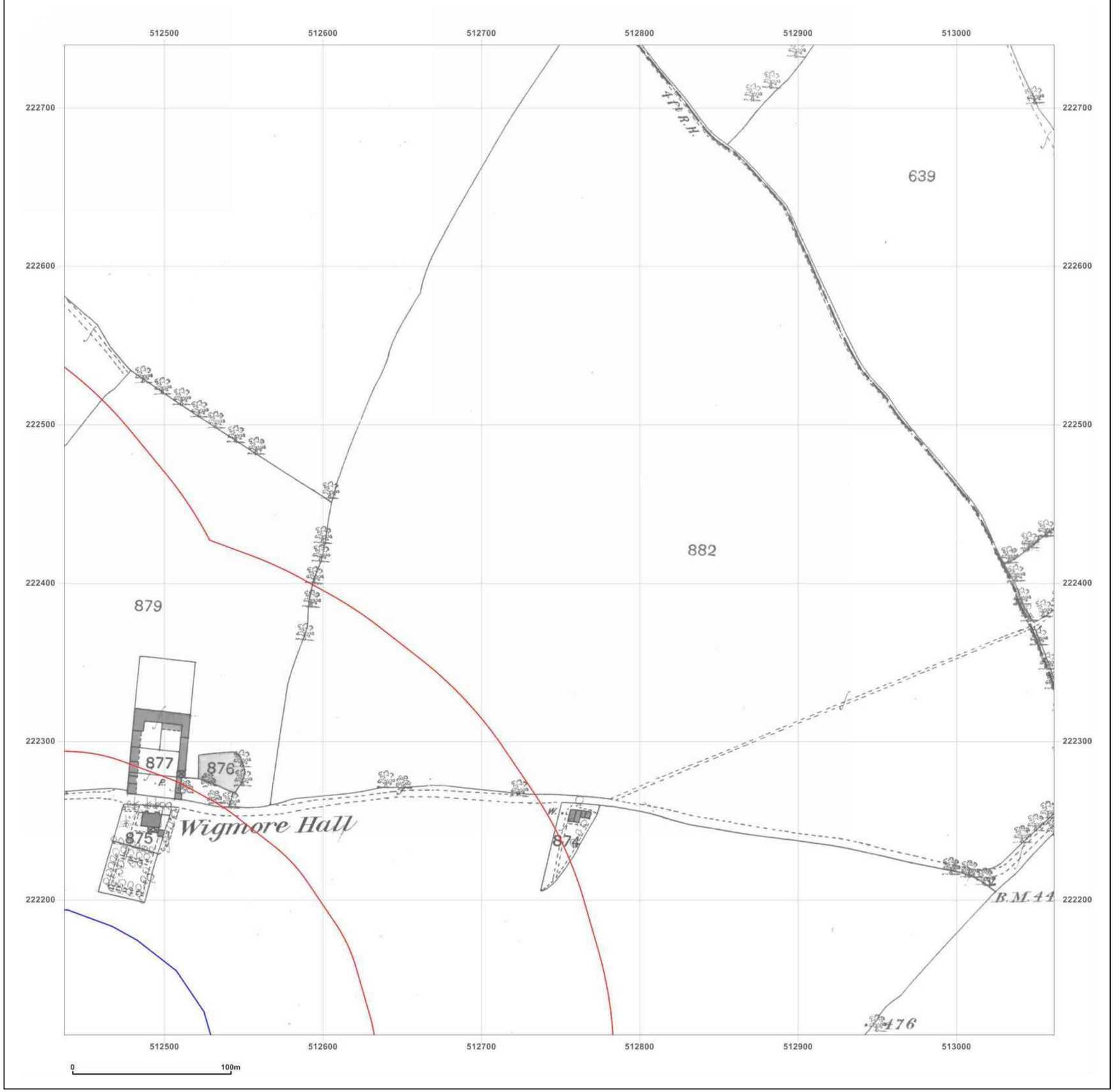

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_4
Grid Ref: 512749, 222427

Map Name: County Series

Map date: **1881**

Scale: 1:2,500

Printed at: 1:2,500

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Revised 1881
Edition N/A
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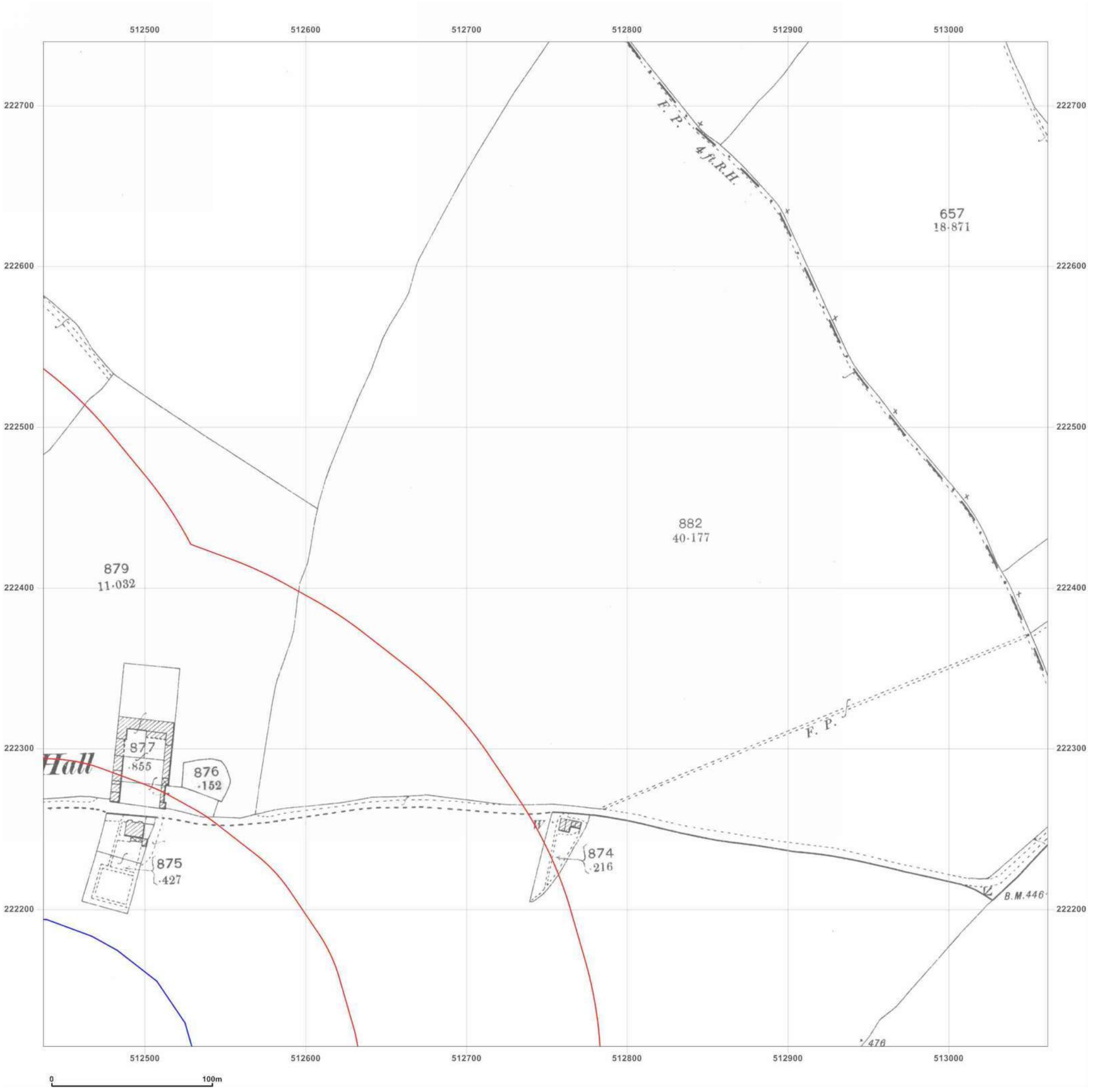

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_4
Grid Ref: 512749, 222427

Map Name: County Series

Map date: **1898**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1898
Revised 1898
Edition N/A
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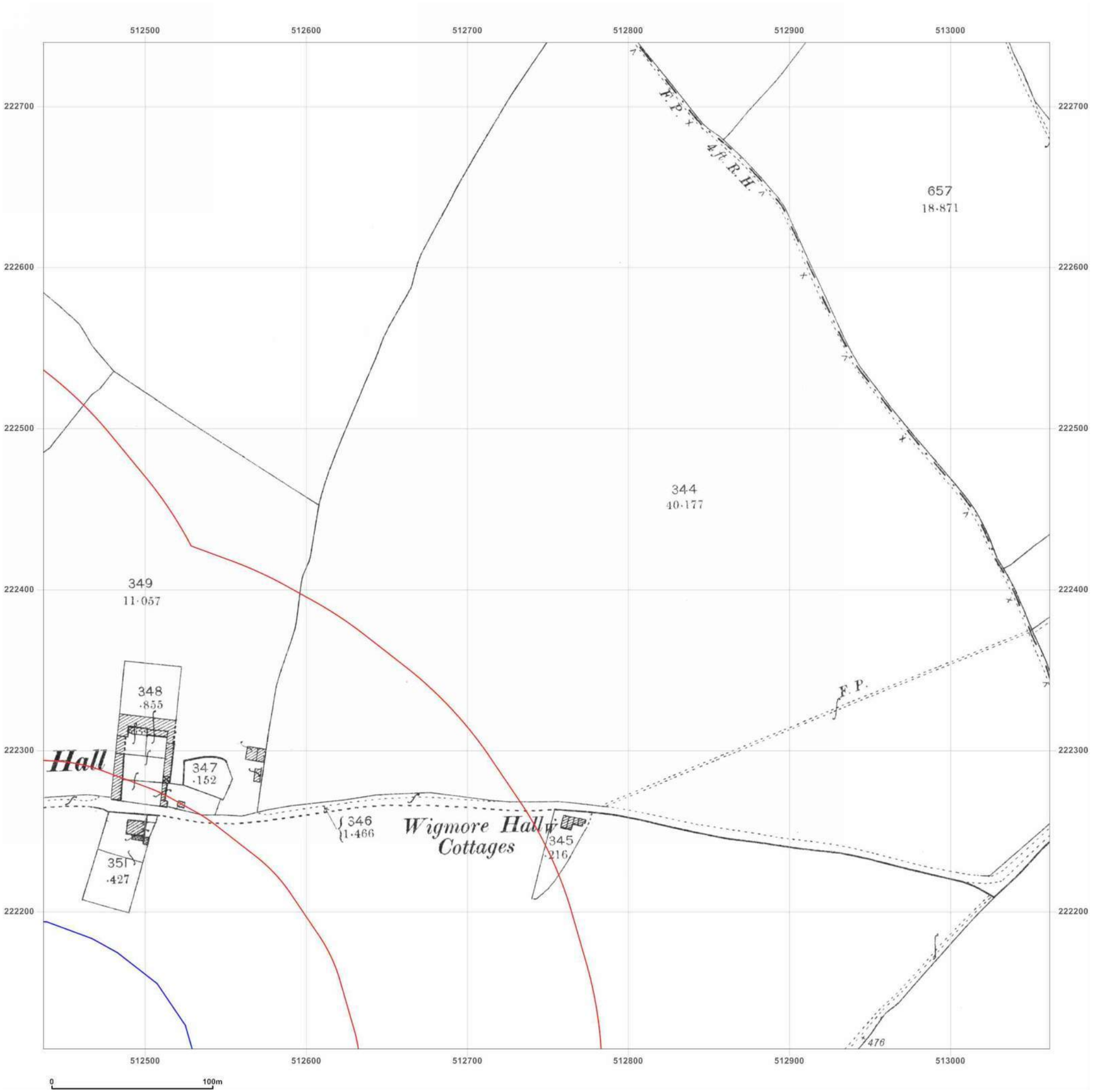

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_4
Grid Ref: 512749, 222427

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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Revised 1901
Edition N/A
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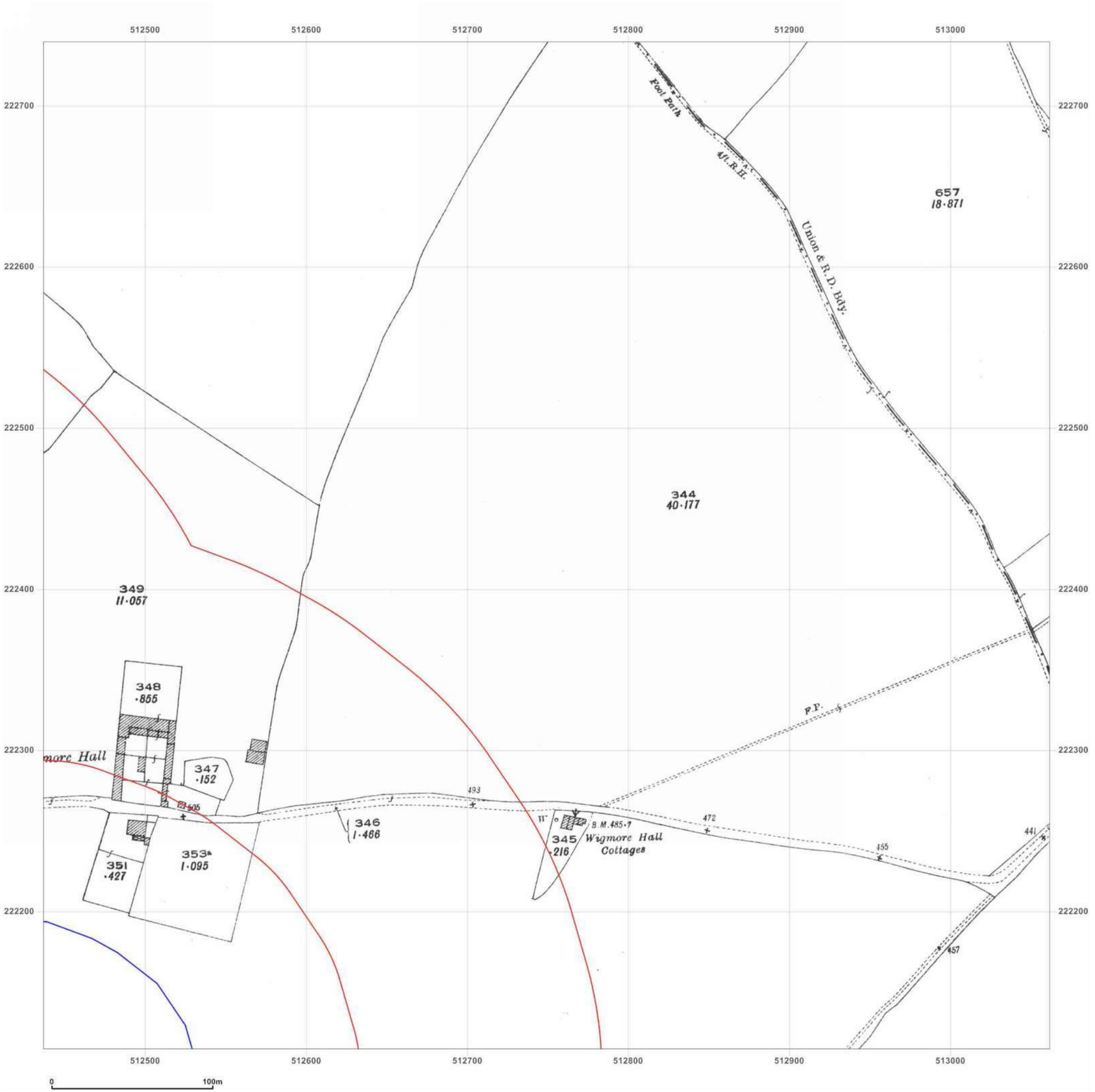

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_4
Grid Ref: 512749, 222427

Map Name: County Series
Map date: **1924**
Scale: 1:2,500
Printed at: 1:2,500

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Revised 1924
Edition N/A
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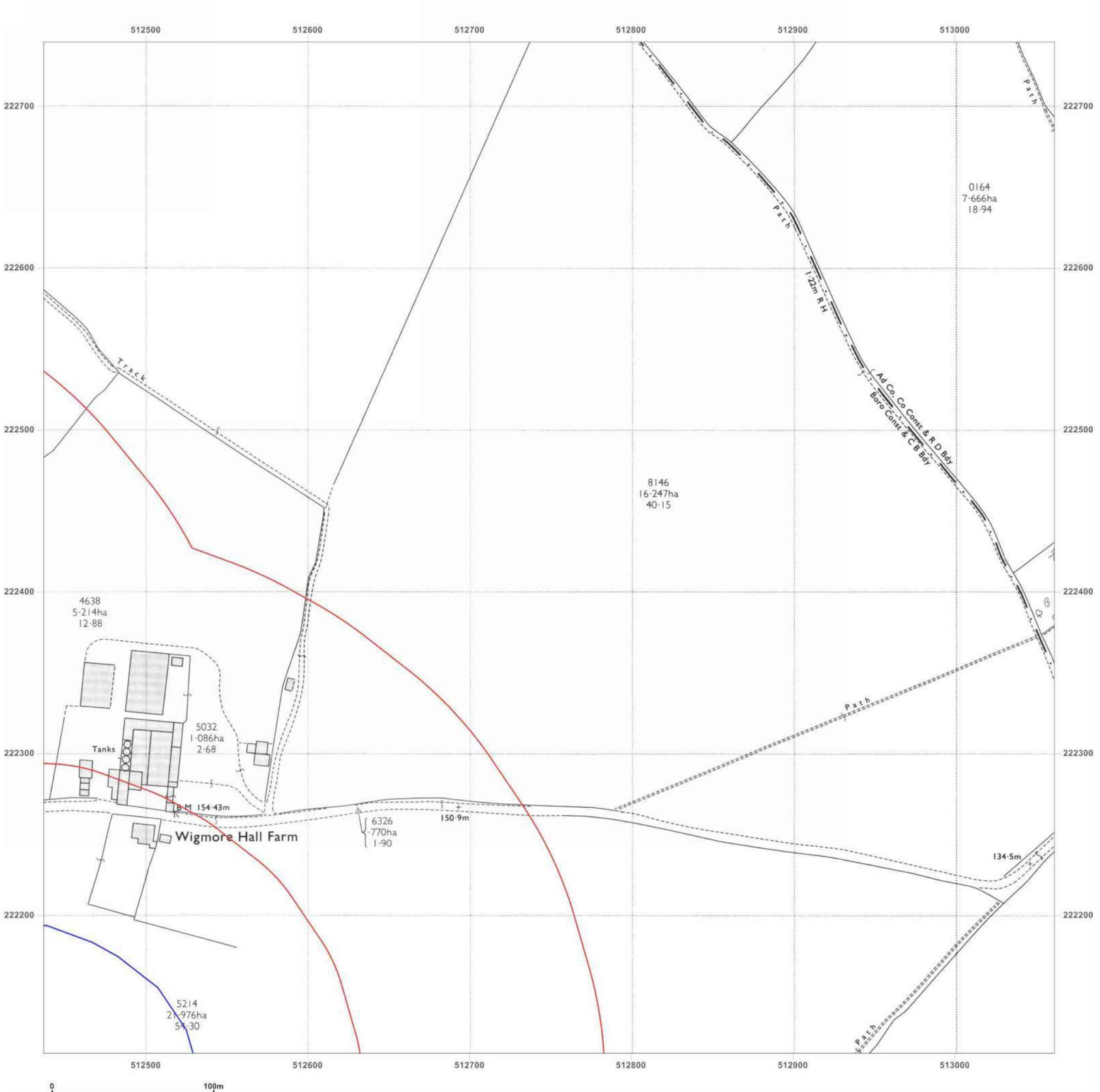

Groundsure INSIGHTS

Site Details:

Proposed Link Road - CPAR

Client Ref: Proposed Link Road - CPAR
Report Ref: GSIP-2020-10588-3214_LS_4_4
Grid Ref: 512749, 222427

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

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Revised 1971
Edition N/A
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A4 Off-site Car Parks (Areas D and E)

Groundsure
LOCATION INTELLIGENCE

Ove Arup & Partners International Ltd

OVE ARUP & PARTNERS, BLYTHE GATE,
SOLIHULL, B90 8AE

Groundsure Reference:	GS-4640548
Your Reference:	245580-00_Trailer_Park
Report Date	5 Jan 2018
Report Delivery Method:	Email - pdf

Address: 510890, 220475,

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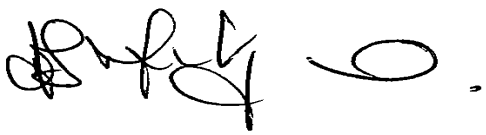
If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

Enc.
Groundsure Geo Insight

Groundsure
LOCATION INTELLIGENCE

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Aerial Photograph Capture date:	01-Jun-2014
Grid Reference:	510849,220474
Site Size:	5.40ha

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Contents Page ... 3
Overview of Findings ... 5
1:10,000 Scale Availability ... 8
Availability of 1:10,000 Scale Geology Mapping ... 9
1 Geology (1:10,000 scale) ... 10
1.1 Artificial Ground map (1:10,000 scale) ... 10
1. Geology 1:10,000 scale ... 11
1.1 Artificial Ground ... 11
1.2 Superficial Deposits and Landslips map (1:10,000 scale) ... 12
1.2 Superficial Deposits and Landslips ... 13
1.2.1 Superficial Deposits/ Drift Geology ... 13
1.2.2 Landslip ... 13
1.3 Bedrock and linear features map (1:10,000 scale) ... 14
1.3 Bedrock and linear features ... 15
1.3.1 Bedrock/ Solid Geology ... 15
1.3.2 Linear features ... 15
2 Geology 1:50,000 Scale ... 16
2.1 Artificial Ground map ... 16
2. Geology 1:50,000 scale ... 17
2.1 Artificial Ground ... 17
2.1.1 Artificial/ Made Ground ... 17
2.1.2 Permeability of Artificial Ground ... 17
2.2 Superficial Deposits and Landslips map (1:50,000 scale) ... 18
2.2 Superficial Deposits and Landslips ... 19
2.2.1 Superficial Deposits/ Drift Geology ... 19
2.2.2 Permeability of Superficial Ground ... 19
2.2.3 Landslip ... 19
2.2.4 Landslip Permeability ... 20
2.3 Bedrock and linear features map (1:50,000 scale) ... 21
2.3 Bedrock, Solid Geology & linear features ... 22
2.3.1 Bedrock/Solid Geology ... 22
2.3.2 Permeability of Bedrock Ground ... 22
2.3.3 Linear features ... 23
3 Radon Data ... 24
3.1 Radon Affected Areas ... 24
3.2 Radon Protection ... 24
4 Ground Workings map ... 25
4 Ground Workings ... 26
4.1 Historical Surface Ground Working Features derived from Historical Mapping ... 26
4.2 Historical Underground Working Features derived from Historical Mapping ... 28
4.3 Current Ground Workings ... 28
5 Mining, Extraction & Natural Cavities ... 30
5.1 Historical Mining ... 30
5.2 Coal Mining ... 30
5.3 Johnson Poole and Bloomer ... 30
5.4 Non-Coal Mining ... 30
5.5 Non-Coal Mining Cavities ... 31
5.6 Natural Cavities ... 31
5.7 Brine Extraction ... 32
5.8 Gypsum Extraction ... 32
5.9 Tin Mining ... 32
5.10 Clay Mining ... 32
6 Natural Ground Subsidence ... 33
6.1 Shrink-Swell Clay map ... 33
6.2 Landslides map ... 34
6.3 Ground Dissolution of Soluble Rocks map ... 35
6.4 Compressible Deposits map ... 36
6.5 Collapsible Deposits map ... 37
6.6 Running Sand map ... 38

6 Natural Ground Subsidence..... 39
6.1 Shrink-Swell Clays.....39
6.2 Landslides.....39
6.3 Ground Dissolution of Soluble Rocks.....40
6.4 Compressible Deposits.....40
6.5 Collapsible Deposits.....40
6.6 Running Sands.....41
7 Borehole Records..... 43
8 Estimated Background Soil Chemistry..... 48
9 Railways and Tunnels map..... 49
9 Railways and Tunnels..... 50
9.1 Tunnels 50
9.2 Historical Railway and Tunnel Features 50
9.3 Historical Railways.....52
9.4 Active Railways.....52
9.5 Railway Projects.....53

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The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Geology 1:10,000 Scale

1.1 Artificial Ground	1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale?	Yes
1.2 Superficial Geology and Landslips	1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?*	No
	1.2.2 Are there any records of landslip within 500m of the study site boundary at 1:10,000 scale?	No
1.3 Bedrock, Solid Geology and linear features	1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale?	No

Section 2: Geology 1:50,000 Scale

2.1 Artificial Ground	2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?	Yes
	2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary?	Yes
2.2 Superficial Geology and Landslips	2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?*	No
	2.2.2 Are there any records of permeability of superficial ground within 500m of the study site?	No
	2.2.3 Are there any records of landslip within 500m of the study site boundary?	No
	2.2.4 Are there any records relating to permeability of landslips within the study site* boundary?	No

Section 2: Geology 1:50,000 Scale

2.3 Bedrock, Solid Geology and linear features	2.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	2.3.2 Are there any records relating to permeability of bedrock ground within the study site boundary?	Yes
	2.3.3 Are there any records of linear features within 500m of the study site boundary?	No

Section 3: Radon

3. Radon	3.1Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
	3.2Radon Protection	No radon protective measures are necessary.

Section 4: Ground Workings	On-site	0-50m	51-250	251-500	501-1000
4.1 Historical Surface Ground Working Features from Small Scale Mapping	11	11	27	Not Searched	Not Searched
4.2 Historical Underground Workings from Small Scale Mapping	0	0	0	0	0
4.3 Current Ground Workings	0	0	0	0	1

Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.1 Historical Mining	0	0	0	0	0
5.2 Coal Mining	0	0	0	0	0
5.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	0
5.4 Non-Coal Mining*	1	0	0	4	3
5.5 Non–Coal Mining Cavities	0	0	0	0	0
5.5 Natural Cavities	1	1	0	0	1

Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.6 Brine Extraction	0	0	0	0	0
5.7 Gypsum Extraction	0	0	0	0	0
5.8 Tin Mining	0	0	0	0	0
5.9 Clay Mining	0	0	0	0	0

Section 6: Natural Ground Subsidence	On-site
6.1 Shrink-Swell Clay	Negligible
6.2 Landslides	Very Low
6.3 Ground Dissolution of Soluble Rocks	Very Low
6.4 Compressible Deposits	Very Low
6.5 Collapsible Deposits	Very Low
6.5 Running Sand	Very Low

Section 7: Borehole Records	On-site	0-50m	51-250
7 BGS Recorded Boreholes	0	6	56

Section 8: Estimated Background Soil Chemistry	On-site	0-50m	51-250
8 Records of Background Soil Chemistry	3	8	0

Section 9: Railways and Tunnels	On-site	0-50m	51-250	250-500
9.1 Tunnels	0	0	0	Not Searched
9.2 Historical Railway and Tunnel Features	2	3	27	Not Searched
9.3 Historical Railways	0	2	2	Not Searched
9.4 Active Railways	10	0	2	Not Searched
9.5 Railway Projects	0	0	0	0

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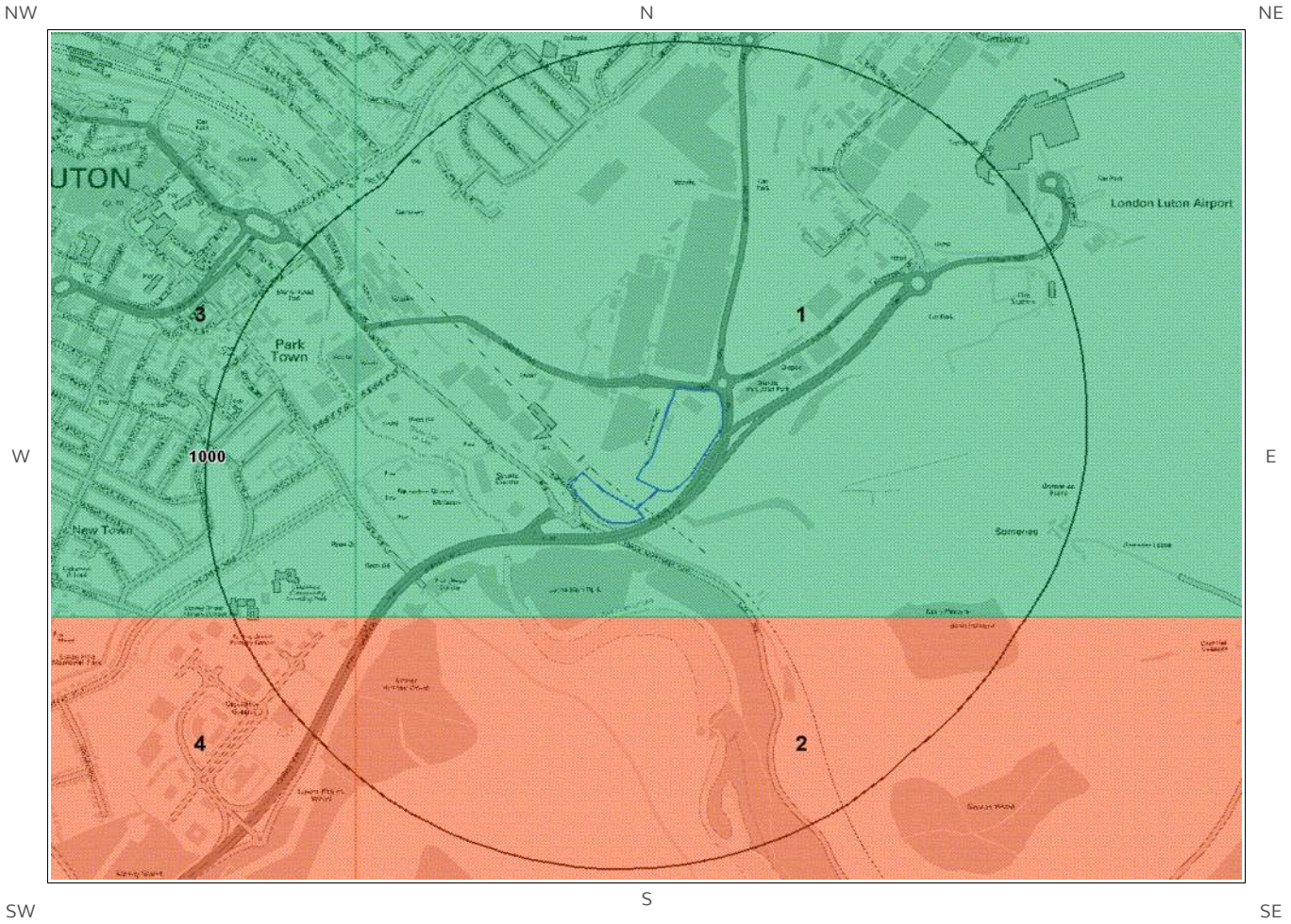

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Site Outline

Full Coverage

Partial Coverage

No Coverage

50
250
Search Buffers (m)

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The following information represents the availability of the key components of the 1:10,000 scale geological data.

		$ # & ' $ # &	1 2 # &	0 0 & 3 # &
1	0.0	Some deposits are mapped	Full	Full	No coverage
2	271.0	Some deposits are mapped	Partial	Partial	No coverage
3	587.0	Some deposits are mapped	Full	Full	No coverage
4	701.0	Some deposits are mapped	Partial	Partial	No coverage

Guidance: The 1:10,000 scale geological interpretation is the most detailed generally available from BGS and is the scale at which most geological surveying is carried out in the field. The database is presented as four types of geology (artificial, mass movement, superficial and bedrock), although not all themes are mapped or available on every map sheet. Therefore a coverage layer showing the availability of the four themes is presented above.

The definitions of coverage are as follows:

$.	, $$ # &	) $ # &	4 # &
Bedrock	The whole tile has been mapped	Some but not all the tile has been mapped	No coverage
Superficial	The whole tile has been mapped	Some but not all of the tile has been mapped	No coverage
Artificial	Some deposits are mapped on this tile	-	No deposits are mapped
Mass Movement	Some deposits are mapped on this tile	-	No coverage

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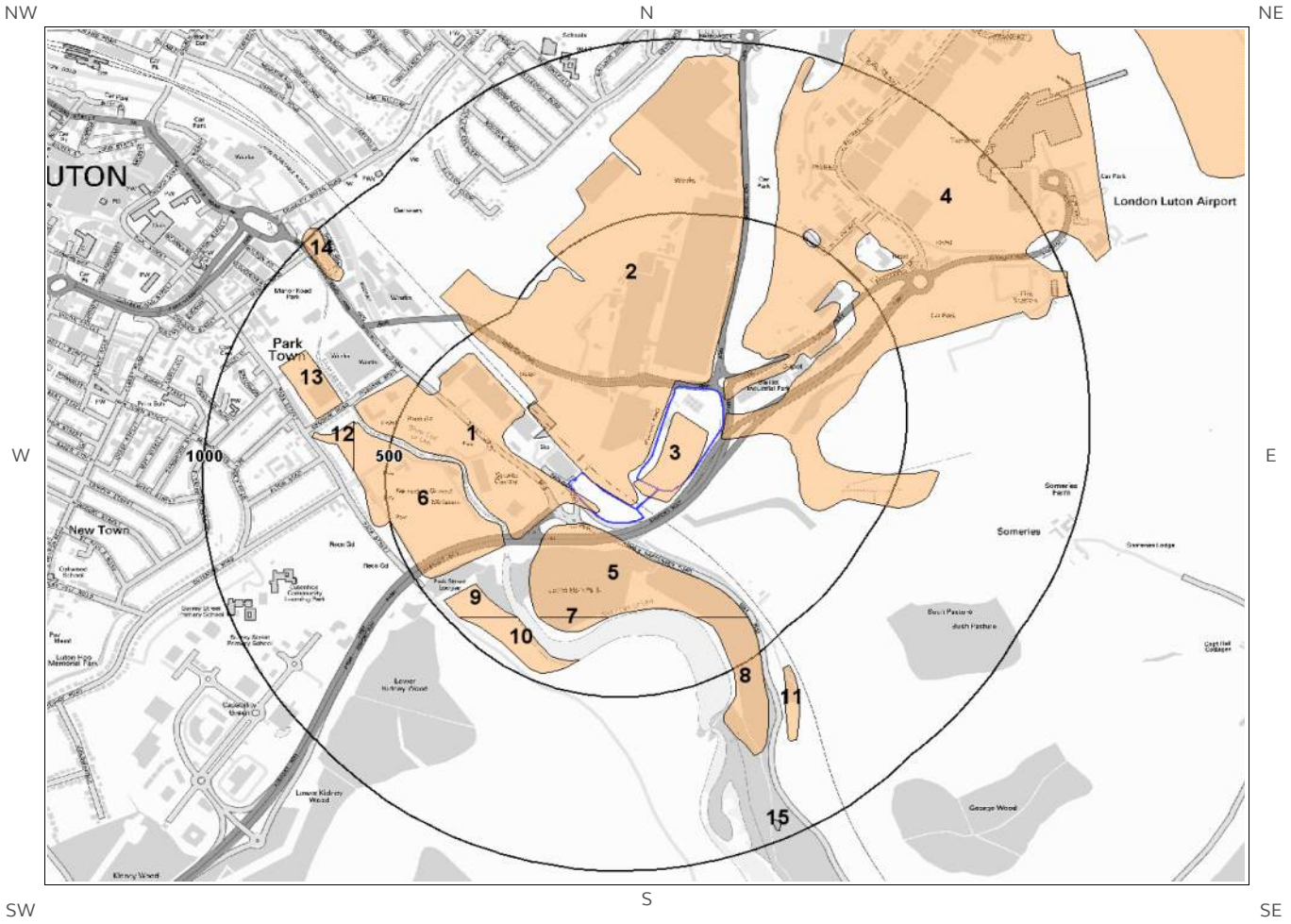

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Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Disturbed Ground (undivided)

Worked Ground (undivided)

Landscaped Ground (undivided)

Infilled Ground

Reclaimed Ground

7 $. $

7 $

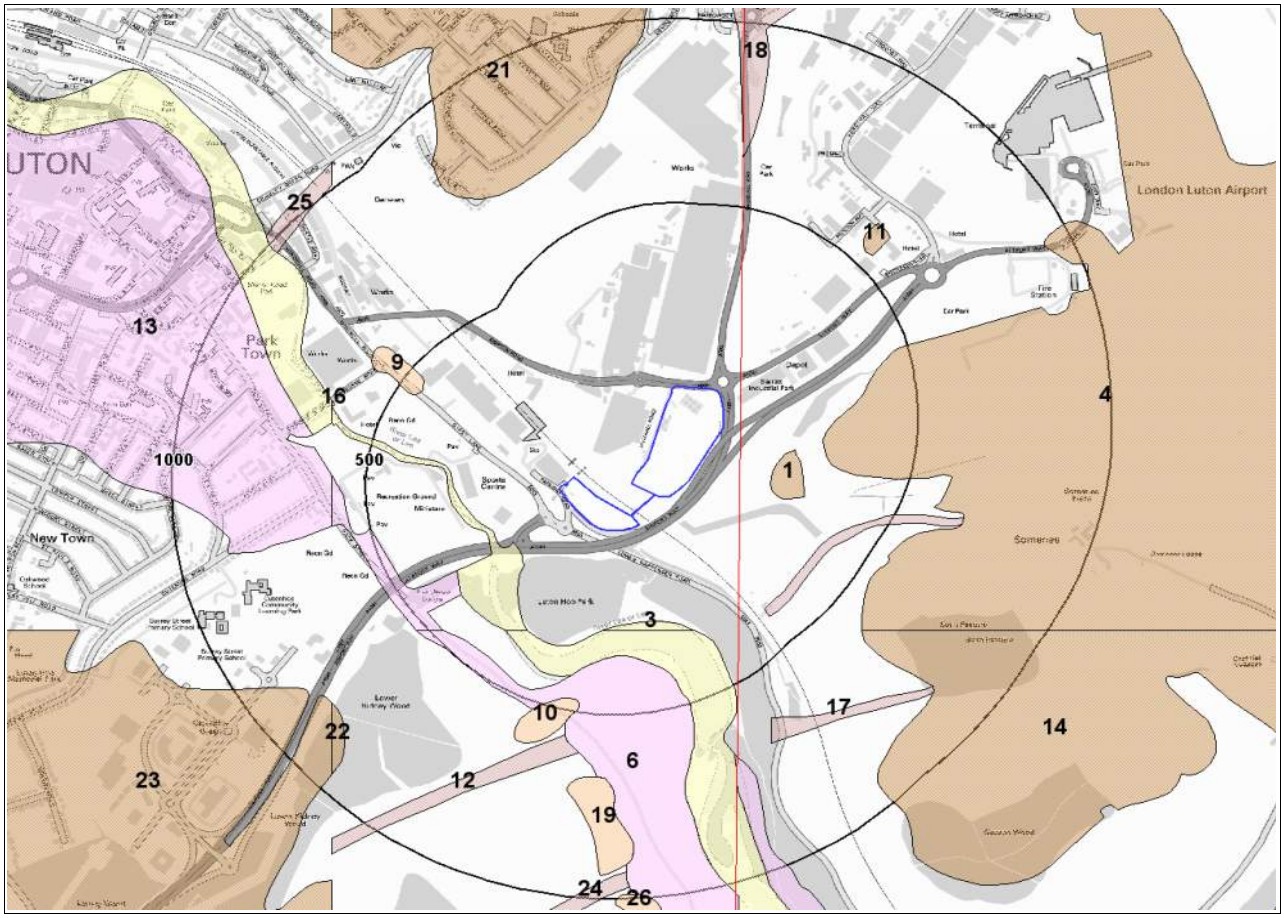
The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

Are there any records of Artificial/ Made Ground within 500m of the study site boundary at 1:10,000 scale? Yes

			*89 #	'	2 '
1	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	2.0	E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	28.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	222.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	272.0	S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	320.0	SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	363.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	364.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

7 ' $ '

* $' 3'5 $6



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Site Outline

500
1000
Search Buffers (m)

7 ' $ '
* $'

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping

1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale? Yes

	536		*89 #	'	2 '
1	167.0	SE	CWF-DMTN	Clay-with-flints Formation - Diamicton	Diamicton
2	178.0	SW	ALV-XCZS	Alluvium - Clay, Silt And Sand	Clay, Silt And Sand
3	252.0	S	ALV-XCZS	Alluvium - Clay, Silt And Sand	Clay, Silt And Sand
4	258.0	E	CWF-DMTN	Clay-with-flints Formation - Diamicton	Diamicton
5A	271.0	S	ALV-XCZS	Alluvium - Clay, Silt And Sand	Clay, Silt And Sand
6	339.0	S	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
7	340.0	SW	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
8	377.0	SE	HEAD-DMTN	Head - Diamicton	Diamicton
9	444.0	NW	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
10	466.0	S	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel

1.2.2 Landslip

Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale?

No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:10,000 scale

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

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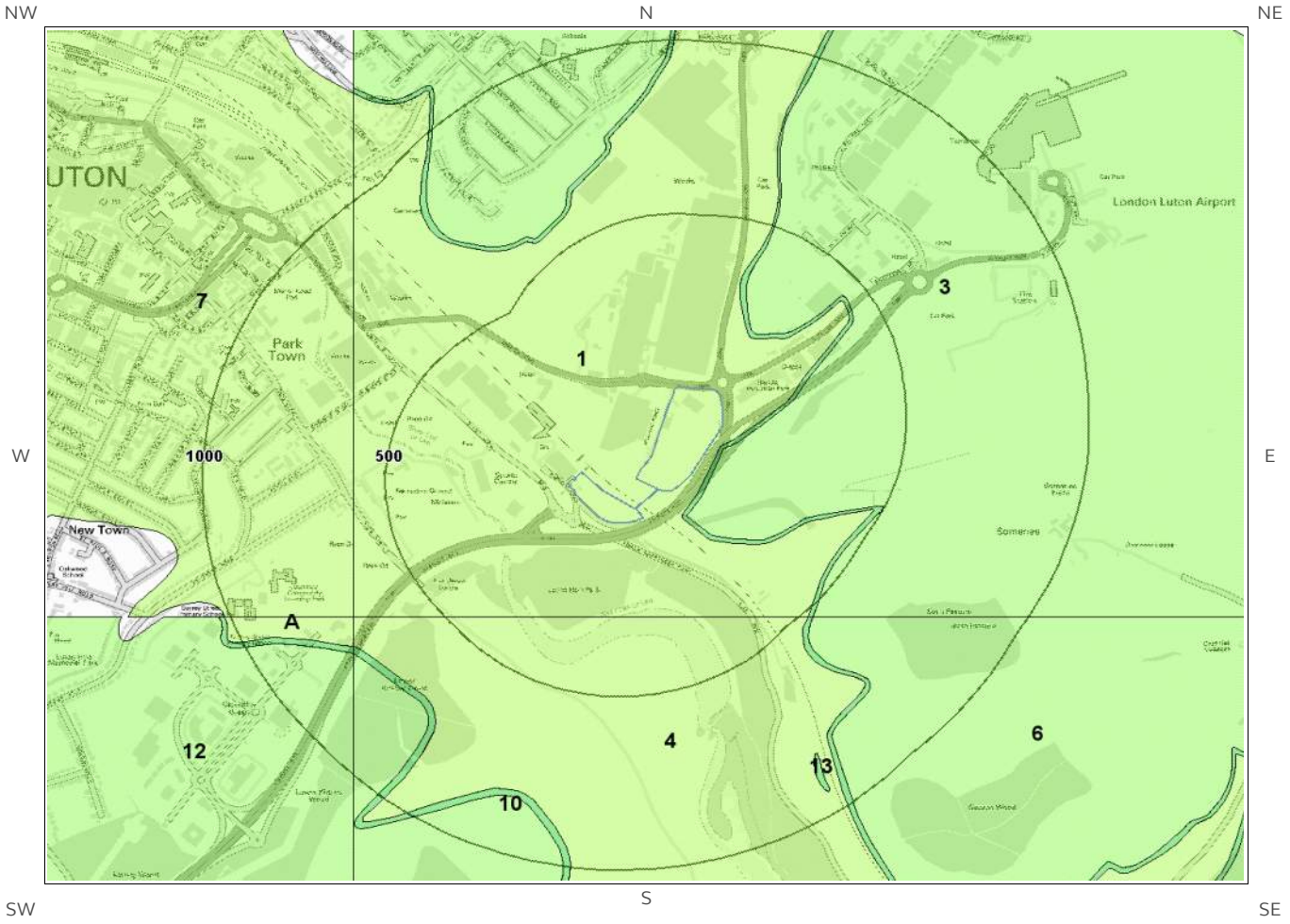
5 $ 6



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Site Outline

500
1000
Search Buffers (m)

7: 1 2 $

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

	536		*89 #	'	2
1	0.0	On Site	HNCK-CHLK	Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk	Turonian Age - Cenomanian Age
2	24.0	SE	CKR-CHLK	Chalk Rock Member - Chalk	Turonian Age
3	37.0	SE	LECH-CHLK	Lewes Nodular Chalk Formation - Chalk	Coniacian Age - Turonian Age
4	271.0	S	HNCK-CHLK	Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk	Turonian Age - Cenomanian Age

1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? No

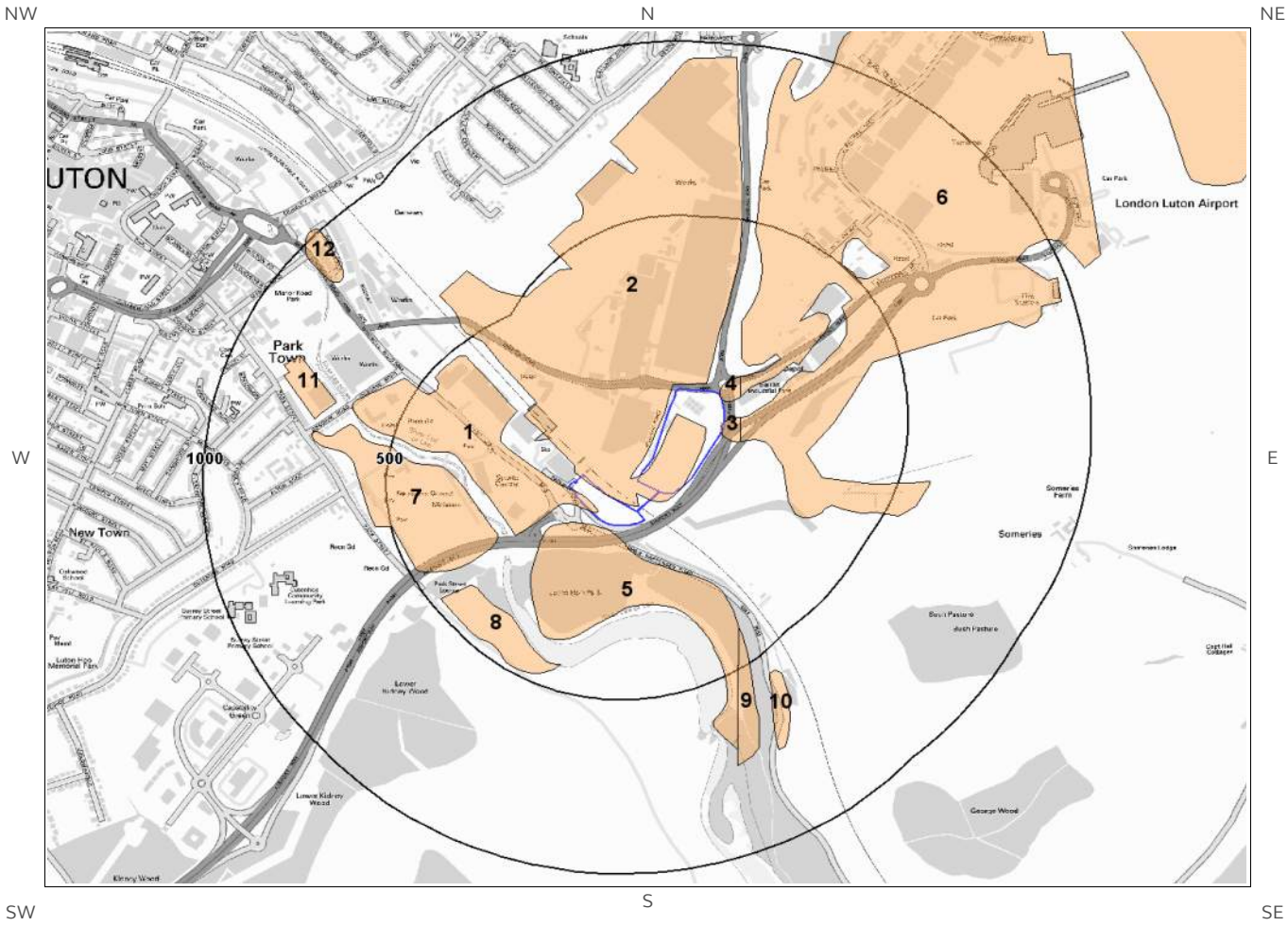
Database searched and no data found at this scale.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

$. $

7 $ 3'



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Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Worked Ground (undivided)

Infilled Ground

Disturbed Ground (undivided)

Landscaped Ground (undivided)

Reclaimed Ground

7 $. $

7 $

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 220

2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? Yes

ID	536		*89 #	'	2 '
1	0.0	On Site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	0.0	On Site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	0.0	On Site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	0.0	On Site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
5	16.0	S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	43.0	E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
7	238.0	SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
8	367.0	SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
9	399.0	SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

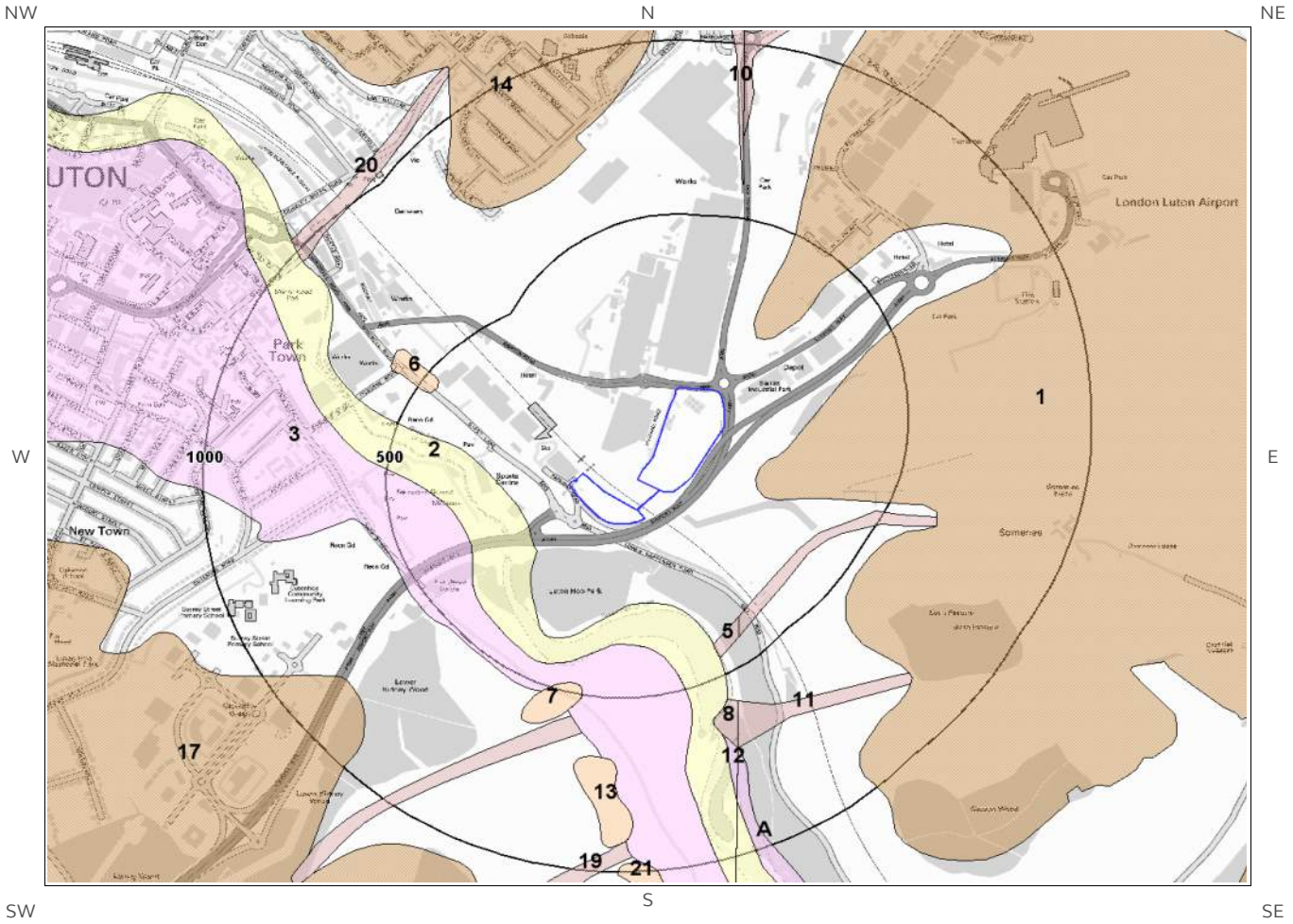
2.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? Yes

536		,$ + ;.'	0 < 3 3) 3 - $.	0 3 3) 3 - $.
0.0	On Site	Mixed	Very High	Low
0.0	On Site	Mixed	Very High	Low
0.0	On Site	Mixed	Very High	Low
16.0	S	Mixed	Very High	Low

7 ' $ '

* $' 3'5 $6



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Site Outline

500
1000
Search Buffers (m)

7 ' $ '

* $'

2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

			*89 #	'	2 '
1	143.0	SE	CWF-XCZSV	CLAY-WITH-FLINTS FORMATION	CLAY, SILT, SAND AND GRAVEL
2	153.0	SW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	314.0	SW	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
4	357.0	SE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
5	381.0	SE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
6	455.0	NW	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
7	471.0	S	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL

2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? No

Database searched and no data found.

2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

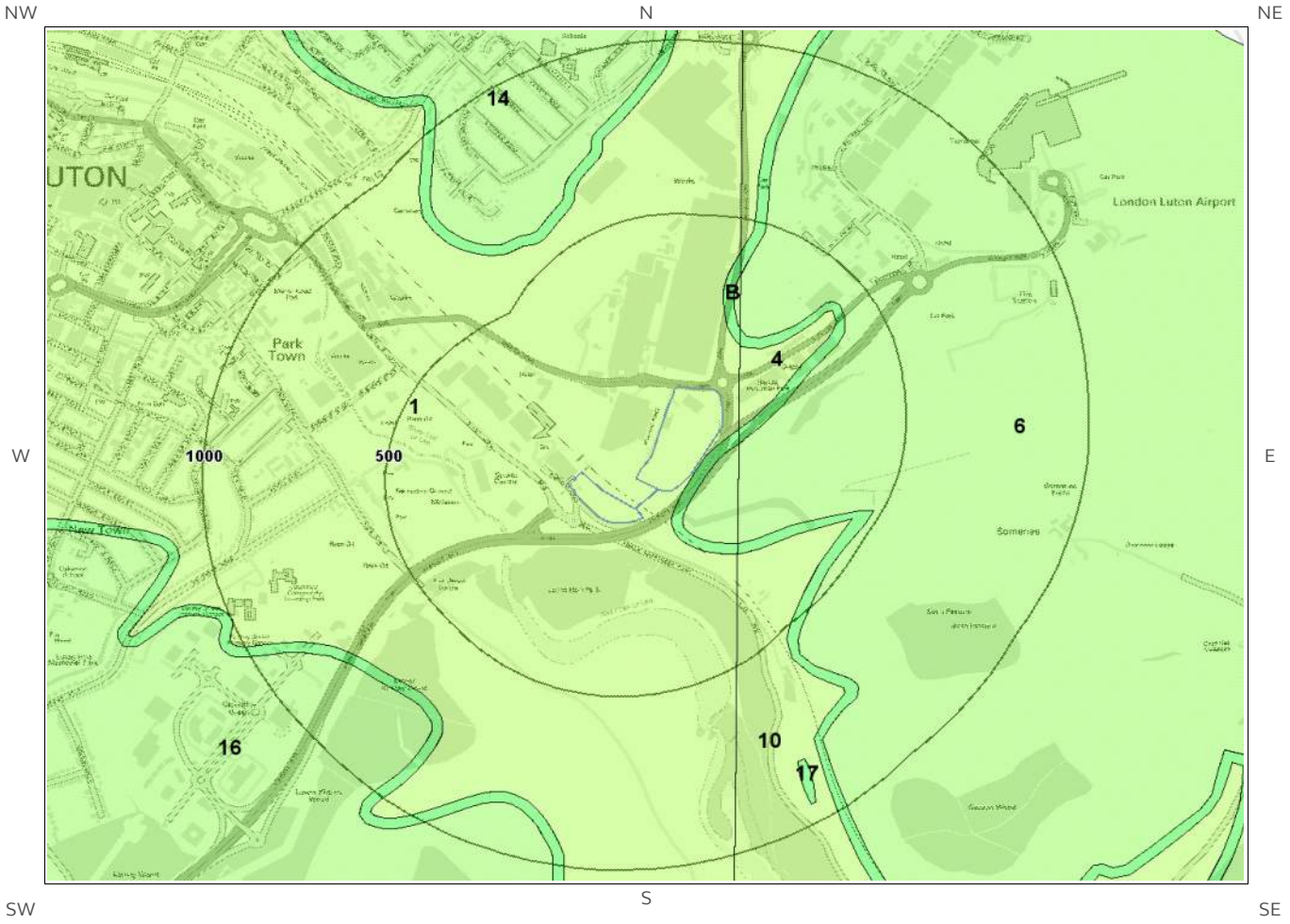
This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site boundary? No

Database searched and no data found.

7: 1 2 $ 3 '
5 $ 6



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Site Outline

500
1000
Search Buffers (m)

7: 1 2 $ $. ($

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 220

2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

			*89 #	2 '	2
1	0.0	On Site	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN
2A	6.0	SE	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
3A	36.0	SE	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
4	43.0	E	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN
5	45.0	E	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
6	62.0	SE	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
7B	148.0	NE	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
8B	194.0	NE	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
9	231.0	SE	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
10	254.0	SE	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN
11C	338.0	N	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
12C	404.0	N	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN

2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary? Yes

		,$ + ;.'	0 < 3 3) 3 - $.	0 33) 3 - $.
0.0	On Site	Fracture	Very High	Very High
6.0	SE	Fracture	Very High	Very High

		,$+;.'	0<33)3-$.	0 33)3-$.
36.0	SE	Fracture	Very High	Very High

2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.

3.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

3.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

= 2 3 '

= 2 *

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Site Outline

125
250
Search Buffers (m)

Historic Surface Ground Workings

Historic Underground Workings

Current Ground Workings

= 2

7 > $ = 2 , & 3 > $0"

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes

	536		4	?	
1A	0.0	On Site	510944 220426	Cuttings	1985
2	0.0	On Site	510816 220300	Cuttings	1985
3A	0.0	On Site	510944 220426	Cuttings	1991
4	0.0	On Site	510804 220313	Cuttings	1991
5B	0.0	On Site	510598 220350	Unspecified Heap	1973
6B	0.0	On Site	510598 220350	Unspecified Heap	1985
7C	0.0	On Site	510869 220269	Cuttings	1922
8C	0.0	On Site	510869 220269	Cuttings	1947
9C	0.0	On Site	510864 220270	Cuttings	1879
10C	0.0	On Site	510860 220274	Cuttings	1973
11	0.0	On Site	510780 220321	Cuttings	1900
12D	11.0	S	510793 220224	Cuttings	1947
13D	11.0	S	510793 220224	Cuttings	1922
14D	12.0	S	510770 220226	Cuttings	1900
15D	13.0	S	510792 220222	Cuttings	1879
16	14.0	S	510820 220200	Cuttings	1951
17G	16.0	SE	510901 220233	Cuttings	1951
18	20.0	N	510973 221093	Sewage Farm	1922
19E	26.0	W	510543 220390	Unspecified Heap	1973
20E	26.0	W	510543 220390	Unspecified Heap	1985
21D	27.0	S	510784 220220	Cuttings	1973

	536		4	?	
22C	32.0	SE	510901 220252	Cuttings	1900
23F	65.0	N	510995 220766	Sewage Tanks	1879
24F	67.0	N	510994 220768	Sewage Tanks	1922
25F	67.0	N	510994 220768	Sewage Tanks	1947
26G	72.0	SE	510916 220238	Cuttings	1985
27G	74.0	SE	510908 220246	Cuttings	1991
28F	75.0	N	511002 220765	Ponds	1900
29	107.0	SW	510411 220288	Pond	1951
30	112.0	SE	510873 220159	Cuttings	1879
31H	113.0	N	510842 220820	Ponds	1879
32H	115.0	N	510841 220822	Ponds	1947
33H	115.0	N	510841 220822	Ponds	1922
34I	183.0	NW	510398 220503	Cuttings	1922
35I	183.0	NW	510398 220503	Cuttings	1947
36K	183.0	N	511078 220855	Sewage Tanks	1879
37J	183.0	NE	511104 220802	Sewage Tanks	1879
38J	185.0	NE	511107 220804	Sewage Tanks	1922
39J	185.0	NE	511107 220804	Sewage Tanks	1947
40I	186.0	NW	510398 220505	Cuttings	1900
41J	186.0	NE	511107 220804	Sewage Tanks	1900
42K	187.0	N	511081 220859	Sewage Tanks	1922
43K	187.0	N	511081 220859	Sewage Tanks	1947
44I	188.0	NW	510394 220506	Cuttings	1879
45L	189.0	N	510863 220897	Pond	1879
46L	191.0	N	510862 220898	Pond	1947
47L	191.0	N	510862 220898	Pond	1922
48K	202.0	NE	511087 220860	Ponds	1900
49	229.0	NE	511097 220876	Unspecified Heap	1973

7 > $? = 2 , & 3 > $0"

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? No

Database searched and no data found.

7: # = 2

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

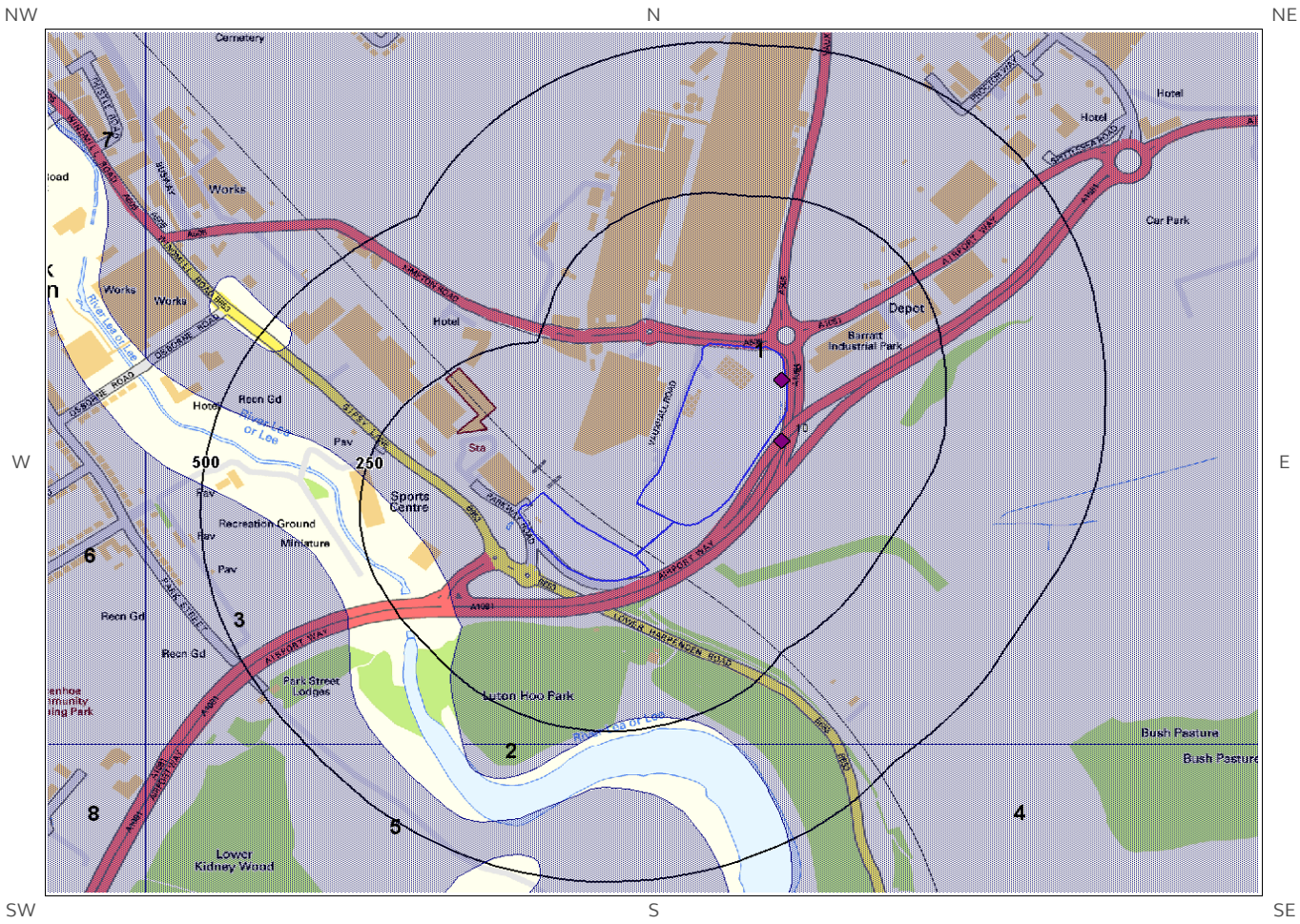
Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

ID				# 33 .)	) 4 3	;.' + 2	
Not shown	556.0	SE	511520 220335	Chalk	Someries Chalk Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

---

0 8< (4 $
& 3 '



0 8<
4 $ # & *

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Site Outline

Search Buffers (m)
250
500

Historical Mining

Non-Coal Mining Cavities

Natural Cavities (point data)

Natural Cavities (polygon data)

Non-Coal Mining
Highly likely
Likely
Unlikely
Highly unlikely
Rare

0 8< (4 $ # &

7 > $ 0

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

7 # $ 0

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

7:) $ 1$ 3

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

---

7 4 !# $ 0

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

	536		4 3	# 33 .	3 $ 2 $
1	0.0	On Site	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

	536		4 3	# 33 .	3 $ 2 $
2	274.0	S	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
3	314.0	SW	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
4	317.0	SE	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
5	343.0	S	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
6	587.0	W	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
7	640.0	NW	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
8	701.0	SW	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

7 4 !# $ 0 # &

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled “Review of mining instability in Great Britain, 1990” PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

7" 4 $ # &

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? Yes

The following Natural Cavities information provided by Peter Brett Associates:

ID	536		4	' $ '	1 2 '	# & . ;.' 4 3-
9	0.0	On Site	511000 220600	Clay-with-Flints	Chalk Group	Solution Pipe x 3

7 1 8<

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

7 .' 3 8<

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

7 ; 0

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level..

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

7 #$. 0

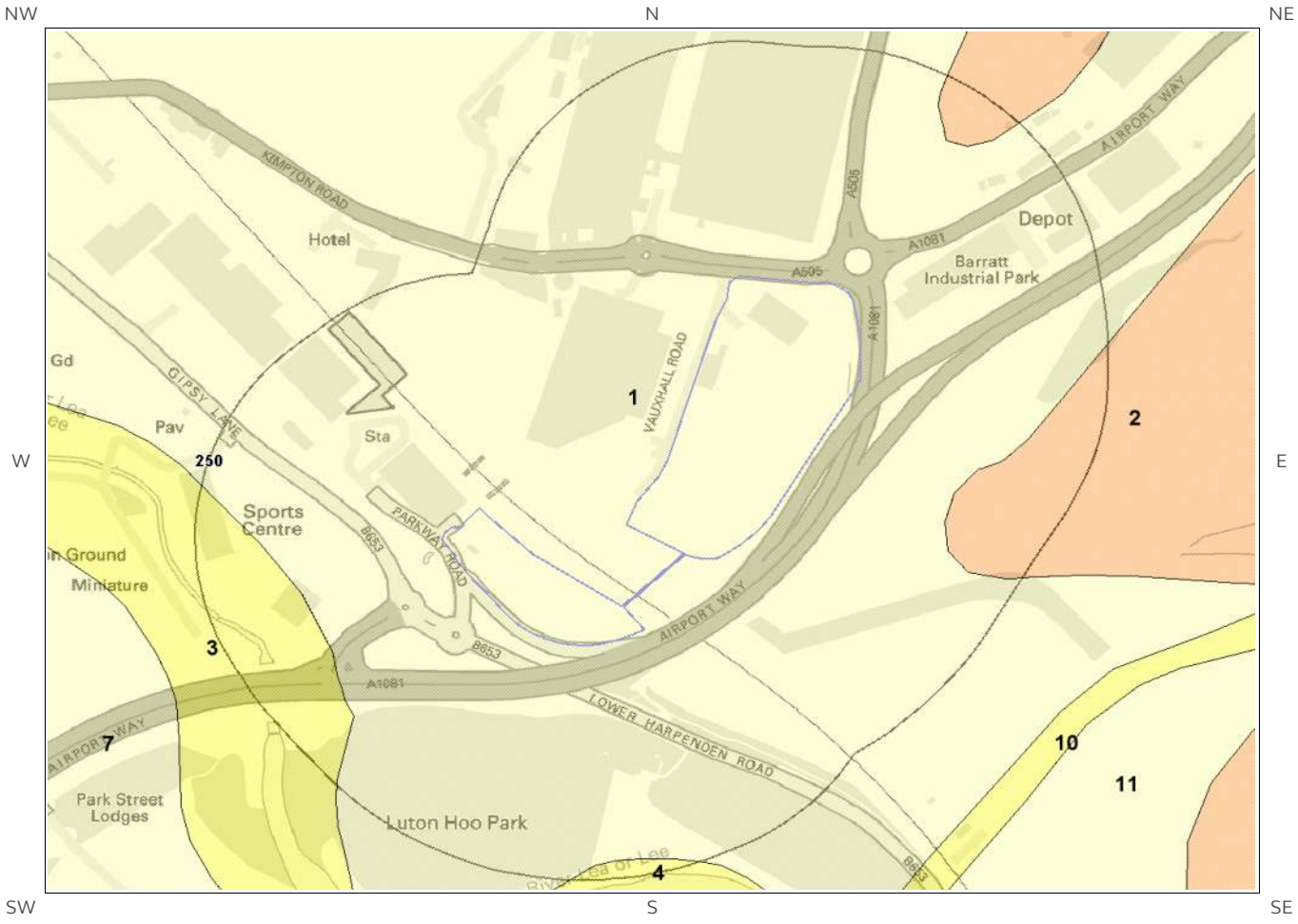
This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

" 4 $ -

"7 2! + $$ #$. 3 '



2 + $$ #$. *

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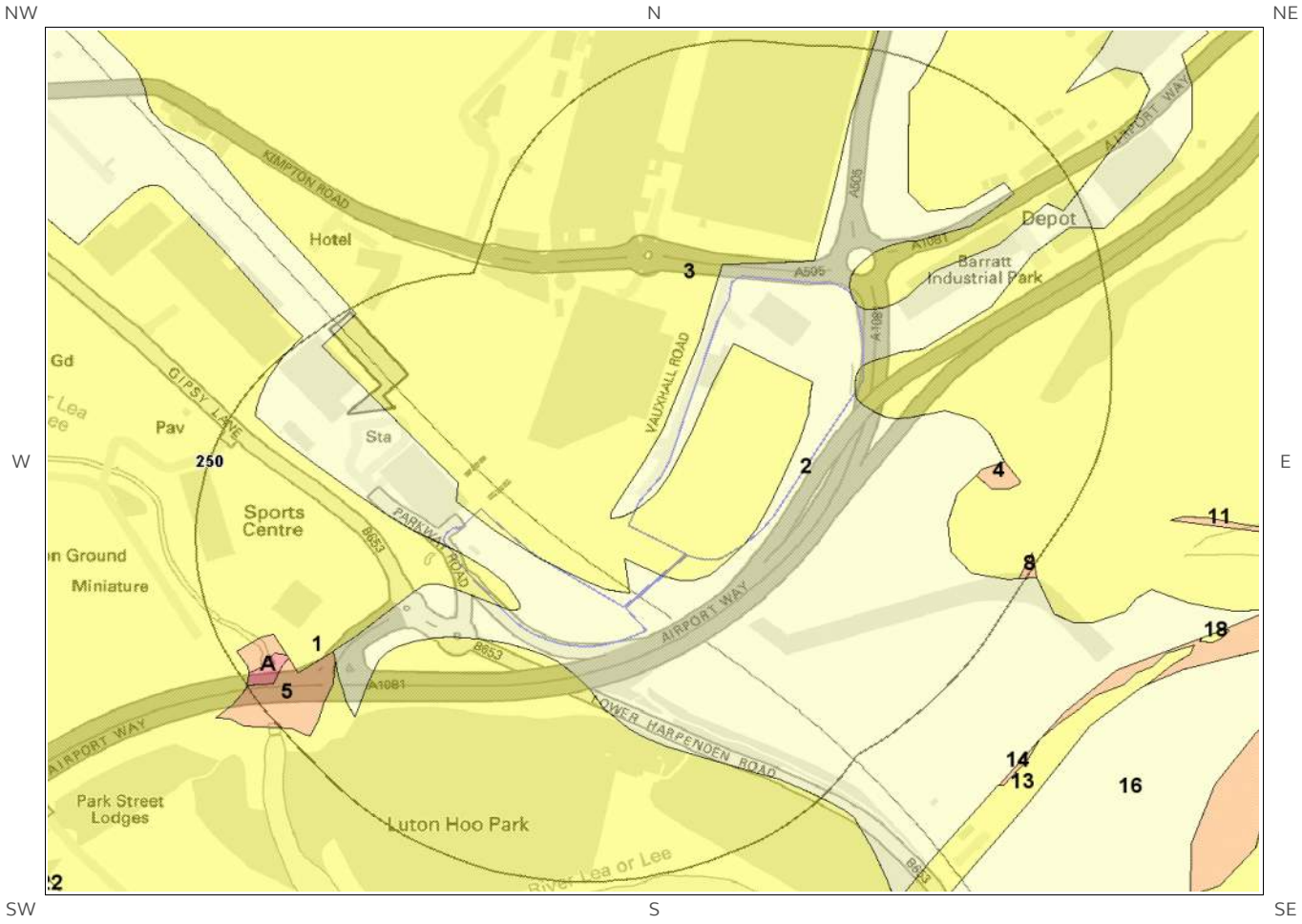
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

"7 * $ 3'



* $ *

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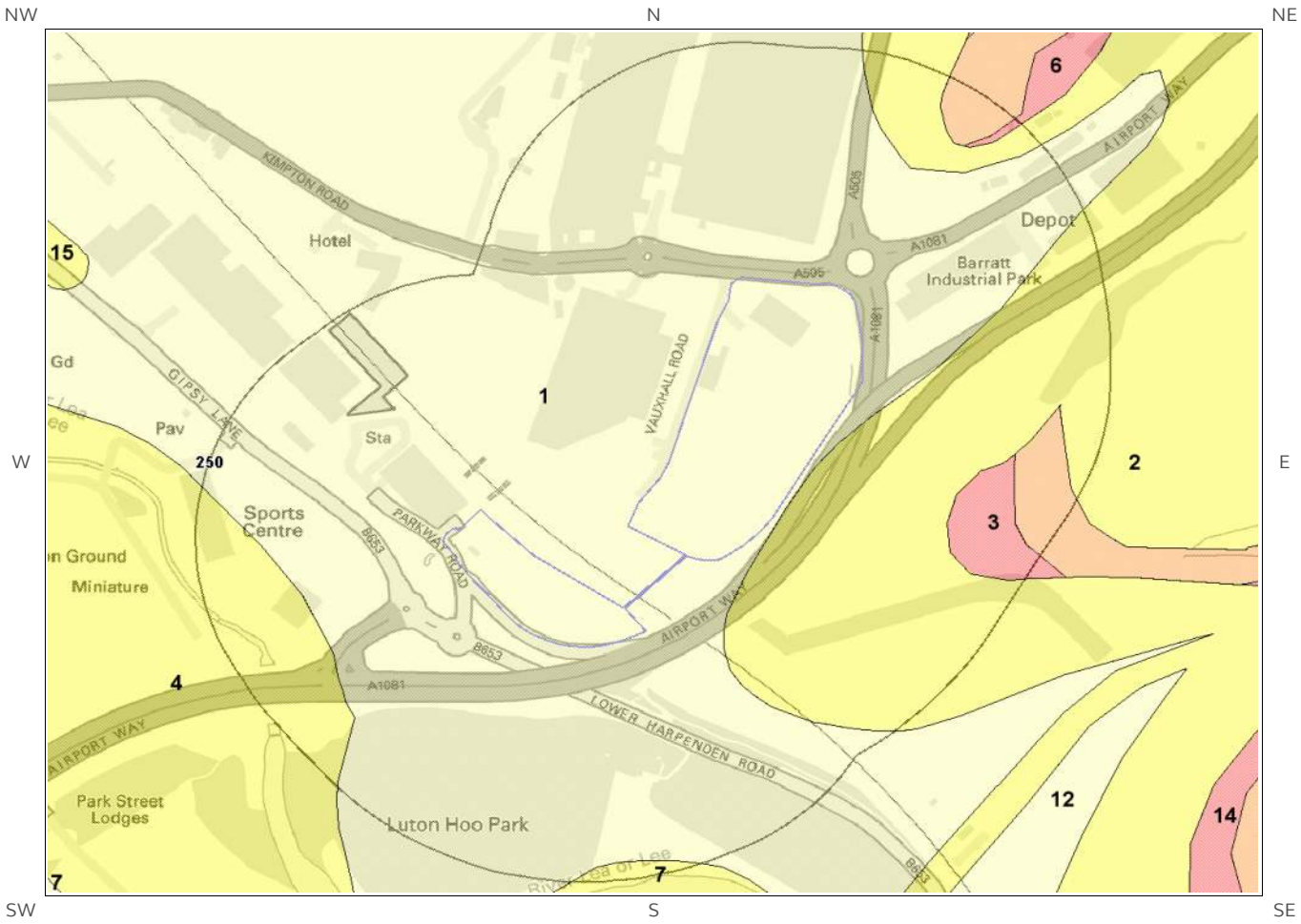
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

"7: $ $ -$
2 3 '



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$
$ -$ 2 *

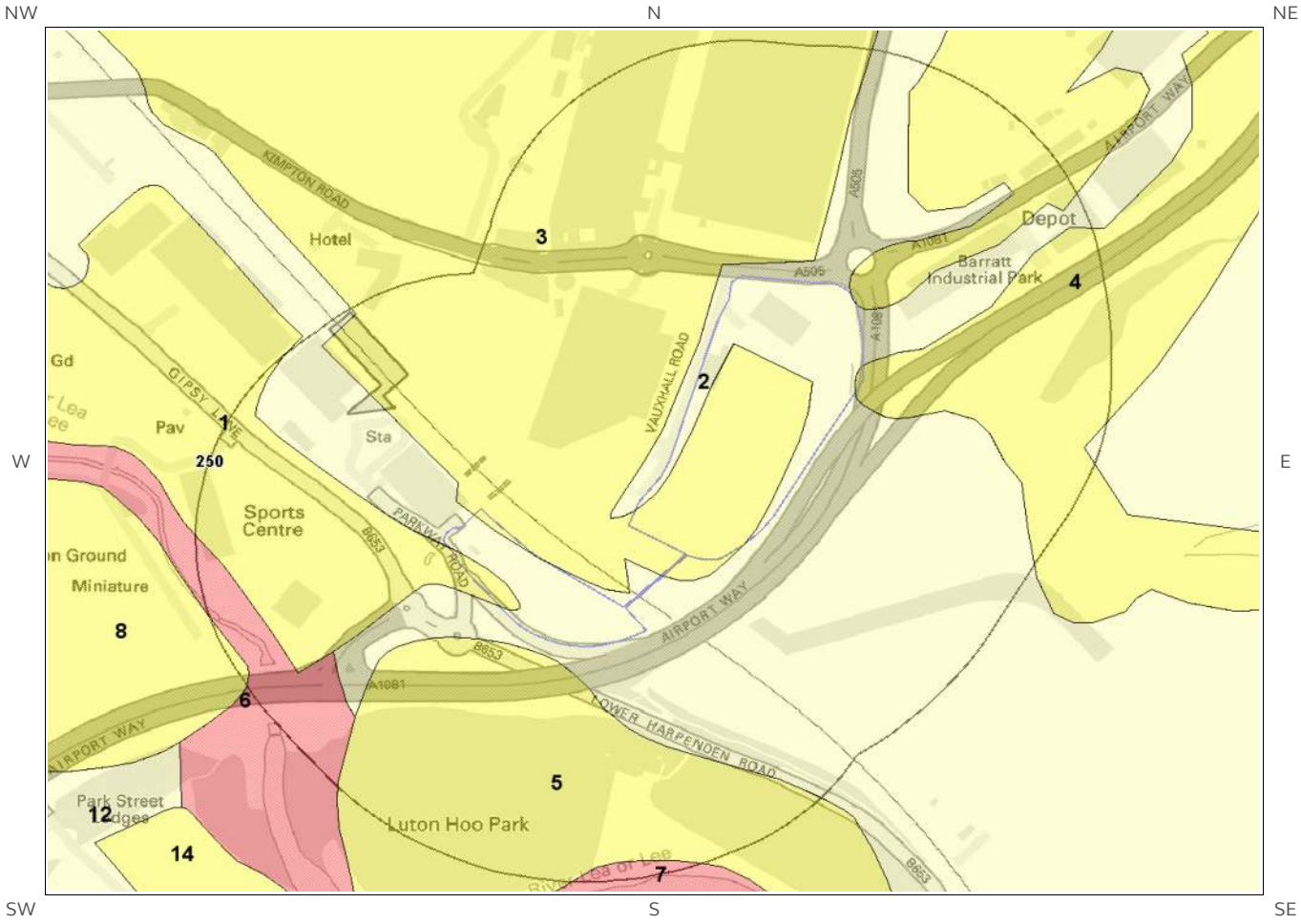
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

"7 # 3' -$ ' 3 '



3' -$ ' *

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Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

"7 # $$ ' -$ ' 3 '

$$ ' -$ ' *

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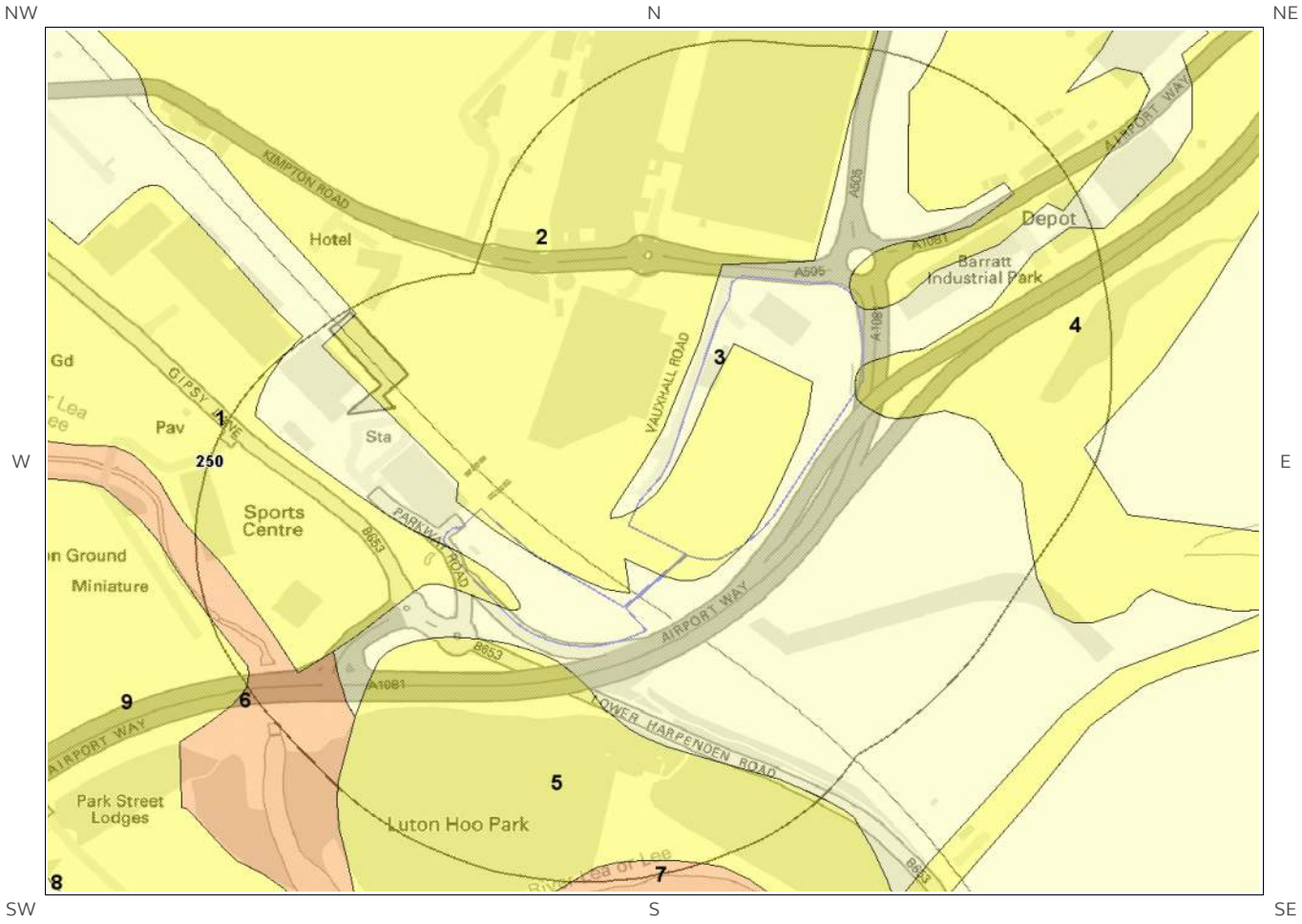
Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

"7" 3 '



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Site Outline

125
250
Search Buffers (m)

No Data / Null
Negligible
Very Low

Low
Moderate
High

" 4 $ -

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site*[*] boundary? Very Low

"7 2! + $$ #$.

The following Shrink Swell information provided by the British Geological Survey:

	536		> @	$
1	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.

"7 * $

The following Landslides information provided by the British Geological Survey:

	536		> @	$
1	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
2	0.0	On Site	Negligible	No indicators for slope instability identified. No special actions required to avoid problems due to landslides. No special ground investigation required and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
3	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

* This includes an automatically generated 50m buffer zone around the site

"7: $ $ -$ 2

The following Ground Dissolution information provided by the British Geological Survey:

	536	> @	$	
1	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.
2	6.0	SE	Very Low	Significant soluble rocks are present. Problems unlikely except with considerable surface or subsurface water flow. No special actions required to avoid problems due to soluble rocks. No special ground investigation required or increased construction costs are likely. An increase in financial risk due to potential problems with soluble rocks is unlikely.

"7 # 3' -$ '

The following Compressible Deposits information provided by the British Geological Survey:

	536	> @	$	
1	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
2	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
3	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
4	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
5	16.0	S	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

"7 # $$ ' -$ '

The following Collapsible Rocks information provided by the British Geological Survey:

	536	> @	$	
1	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

"7"

The following Running Sands information provided by the British Geological Survey:

	536	> @		$
1	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
2	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
3	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
4	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
5	16.0	S	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

1 $ 3 '

1 $ *

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Site Outline

Borehole Locations

125
250
Search Buffers (m)

1 $

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary: 62

ID	536		4	1	$$ *	1 $ 4 3
1	25.0	SE	510890 220350	TL12SW29	14.3	LUTON EASTERN BY-PASS 43A
2	26.0	SE	510810 220270	TL12SW25	20.0	LUTON EASTERN BY-PASS 39
3	28.0	E	511030 220640	TL12SW31	17.0	LUTON EASTERN BY-PASS 46
4	31.0	SE	510980 220450	TL12SW30	12.0	LUTON EASTERN BY-PASS 45
5	37.0	S	510770 220240	TL12SW22	9.5	LUTON EASTERN BY-PASS 35
6	41.0	NE	511030 220670	TL12SW33	4.5	LUTON EASTERN BY-PASS 49
7	53.0	SE	510790 220230	TL12SW23	20.0	LUTON EASTERN BY-PASS 36
8	61.0	S	510730 220210	TL12SW20	9.0	LUTON EASTERN BY-PASS 32
9	62.0	SE	510840 220250	TL12SW26	13.0	LUTON EASTERN BY-PASS 40
10A	63.0	NE	511030 220700	TL12SW35	12.5	LUTON EASTERN BY-PASS 52
11	69.0	E	511070 220650	TL12SW32	16.0	LUTON EASTERN BY-PASS 48
12	78.0	S	510780 220200	TL12SW21	11.3	LUTON EASTERN BY-PASS 34
13	79.0	S	510890 220290	TL12SW28	32.0	LUTON EASTERN BY-PASS 43
14	80.0	NE	511070 220680	TL12SW34	13.0	LUTON EASTERN BY-PASS 51
15A	83.0	NE	511050 220710	TL12SW36	4.2	LUTON EASTERN BY-PASS 53
16B	88.0	NE	511030 220730	TL12SW38	6.4	LUTON EASTERN BY-PASS 55
17	92.0	SE	510820 220200	TL12SW24	11.5	LUTON EASTERN BY-PASS 37
18	93.0	N	510630 220510	TL12SW260	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON RC11
19	97.0	NE	511070 220710	TL12SW37	12.5	LUTON EASTERN BY-PASS 54
20	98.0	SE	510870 220230	TL12SW27	19.0	LUTON EASTERN BY-PASS 41
21B	99.0	NE	511050 220730	TL12SW39	6.8	LUTON EASTERN BY-PASS 56
22	119.0	S	510670 220160	TL12SW19	6.5	LUTON EASTERN BY-PASS 31

ID	536		4	1	$$ *	1 $ 4 3
23	119.0	NE	511070 220740	TL12SW40	15.0	LUTON EASTERN BY-PASS 57
24	123.0	N	510620 220540	TL12SW257	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON RC8
25D	159.0	N	510580 220570	TL12SW255	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON RC6
26	159.0	N	510670 220570	TL12SW259	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON RC10
27C	162.0	W	510700 220640	TL12SW84/B	76.2	VAUXHALL MOTORS LTD LUTON
28C	162.0	W	510700 220640	TL12SW84/A	76.2	VAUXHALL MOTORS LTD LUTON
29	162.0	W	510690 220610	TL12SW258	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON RC9
30D	165.0	NW	510560 220570	TL12SW249	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON CP2
31	180.0	N	511030 220830	TL12SW41	18.5	LUTON EASTERN BY-PASS 58
32	193.0	N	510640 220610	TL12SW256	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON RC7
33	205.0	NW	510530 220600	TL12SW252	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON RC3
34F	213.0	N	510630 220630	TL12SW254	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON RC5
35G	215.0	SW	510550 220110	TL12SW18	7.5	LUTON EASTERN BY-PASS 30
36	216.0	N	510550 220620	TL12SW251	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON RC2
37E	218.0	NW	510400 220500	TL12SW135	20.0	PROP REDEVELOPMENT 6
38E	218.0	NW	510400 220500	TL12SW140	2.0	PROP REDEVELOPMENT TP E
39E	218.0	NW	510400 220500	TL12SW145	4.0	PROP REDEVELOPMENT TP 2
40E	218.0	NW	510400 220500	TL12SW142	20.25	PROP REDEVELOPMENT 1
41E	218.0	NW	510400 220500	TL12SW134	15.65	PROP REDEVELOPMENT 5
42E	218.0	NW	510400 220500	TL12SW149	3.0	PROP REDEVELOPMENT TP 6
43E	218.0	NW	510400 220500	TL12SW143	16.45	PROP REDEVELOPMENT 7
44E	218.0	NW	510400 220500	TL12SW131	10.5	PROP REDEVELOPMENT 2
45E	218.0	NW	510400 220500	TL12SW150	2.0	PROP REDEVELOPMENT TP G
46E	218.0	NW	510400 220500	TL12SW133	21.0	PROP REDEVELOPMENT 4
47E	218.0	NW	510400 220500	TL12SW146	4.0	PROP REDEVELOPMENT TP 3
48E	218.0	NW	510400 220500	TL12SW139	0.0	PROP REDEVELOPMENT TP D
49E	218.0	NW	510400 220500	TL12SW153	0.0	PROP REDEVELOPMENT TP J
50E	218.0	NW	510400 220500	TL12SW148	4.0	PROP REDEVELOPMENT TP 5
51E	218.0	NW	510400 220500	TL12SW147	4.0	PROP REDEVELOPMENT TP 4

ID	536		4	1	$$ *	1 $ 4 3
52E	218.0	NW	510400 220500	TL12SW152	1.0	PROP REDEVELOPMENT TP I
53E	218.0	NW	510400 220500	TL12SW141	1.0	PROP REDEVELOPMENT TP F
54E	218.0	NW	510400 220500	TL12SW137	3.0	PROP REDEVELOPMENT TP B
55E	218.0	NW	510400 220500	TL12SW151	1.0	PROP REDEVELOPMENT TP H
56E	218.0	NW	510400 220500	TL12SW138	3.0	PROP REDEVELOPMENT TP C
57E	218.0	NW	510400 220500	TL12SW144	4.0	PROP REDEVELOPMENT TP 1
58E	218.0	NW	510400 220500	TL12SW136	1.0	PROP REDEVELOPMENT TP A
59E	218.0	NW	510400 220500	TL12SW132	11.45	PROP REDEVELOPMENT 3
60F	223.0	N	510610 220640	TL12SW253	-1.0	KIMPTON DISTRIBUTION CENTRE LUTON RC4
61G	234.0	SW	510530 220100	TL12SW108	10.0	LUTON E.CIRCULAR S.SECTION 13
62	249.0	SW	510550 220070	TL12SW17	13.0	LUTON EASTERN BY-PASS 29

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1: scans.bgs.ac.uk/sobi_scans/boreholes/528468
#2: scans.bgs.ac.uk/sobi_scans/boreholes/528464
#3: scans.bgs.ac.uk/sobi_scans/boreholes/528470
#4: scans.bgs.ac.uk/sobi_scans/boreholes/528469
#5: scans.bgs.ac.uk/sobi_scans/boreholes/528461
#6: scans.bgs.ac.uk/sobi_scans/boreholes/528472
#7: scans.bgs.ac.uk/sobi_scans/boreholes/528462
#8: scans.bgs.ac.uk/sobi_scans/boreholes/528459
#9: scans.bgs.ac.uk/sobi_scans/boreholes/528465
#10A: scans.bgs.ac.uk/sobi_scans/boreholes/528474
#11: scans.bgs.ac.uk/sobi_scans/boreholes/528471
#12: scans.bgs.ac.uk/sobi_scans/boreholes/528460
#13: scans.bgs.ac.uk/sobi_scans/boreholes/528467
#14: scans.bgs.ac.uk/sobi_scans/boreholes/528473
#15A: scans.bgs.ac.uk/sobi_scans/boreholes/528475
#16B: scans.bgs.ac.uk/sobi_scans/boreholes/528477
#17: scans.bgs.ac.uk/sobi_scans/boreholes/528463
#19: scans.bgs.ac.uk/sobi_scans/boreholes/528476
#20: scans.bgs.ac.uk/sobi_scans/boreholes/528466
#21B: scans.bgs.ac.uk/sobi_scans/boreholes/528478
#22: scans.bgs.ac.uk/sobi_scans/boreholes/528458
#23: scans.bgs.ac.uk/sobi_scans/boreholes/528479
#27C: scans.bgs.ac.uk/sobi_scans/boreholes/528524
#28C: scans.bgs.ac.uk/sobi_scans/boreholes/528523
#31: scans.bgs.ac.uk/sobi_scans/boreholes/528480
#35G: scans.bgs.ac.uk/sobi_scans/boreholes/528457
#37E: scans.bgs.ac.uk/sobi_scans/boreholes/528576
#38E: scans.bgs.ac.uk/sobi_scans/boreholes/528581
#39E: scans.bgs.ac.uk/sobi_scans/boreholes/528586
#40E: scans.bgs.ac.uk/sobi_scans/boreholes/528583
#41E: scans.bgs.ac.uk/sobi_scans/boreholes/528575
#42E: scans.bgs.ac.uk/sobi_scans/boreholes/528590
#43E: scans.bgs.ac.uk/sobi_scans/boreholes/528584
#44E: scans.bgs.ac.uk/sobi_scans/boreholes/528572
#45E: scans.bgs.ac.uk/sobi_scans/boreholes/528591
#46E: scans.bgs.ac.uk/sobi_scans/boreholes/528574
#47E: scans.bgs.ac.uk/sobi_scans/boreholes/528587
#48E: scans.bgs.ac.uk/sobi_scans/boreholes/528580
#49E: scans.bgs.ac.uk/sobi_scans/boreholes/528594
#50E: scans.bgs.ac.uk/sobi_scans/boreholes/528589
#51E: scans.bgs.ac.uk/sobi_scans/boreholes/528588
#52E: scans.bgs.ac.uk/sobi_scans/boreholes/528593
#53E: scans.bgs.ac.uk/sobi_scans/boreholes/528582
#54E: scans.bgs.ac.uk/sobi_scans/boreholes/528578
#55E: scans.bgs.ac.uk/sobi_scans/boreholes/528592
#56E: scans.bgs.ac.uk/sobi_scans/boreholes/528579
#57E: scans.bgs.ac.uk/sobi_scans/boreholes/528585
#58E: scans.bgs.ac.uk/sobi_scans/boreholes/528577
#59E: scans.bgs.ac.uk/sobi_scans/boreholes/528573
#61G: scans.bgs.ac.uk/sobi_scans/boreholes/528549
#62: scans.bgs.ac.uk/sobi_scans/boreholes/528456

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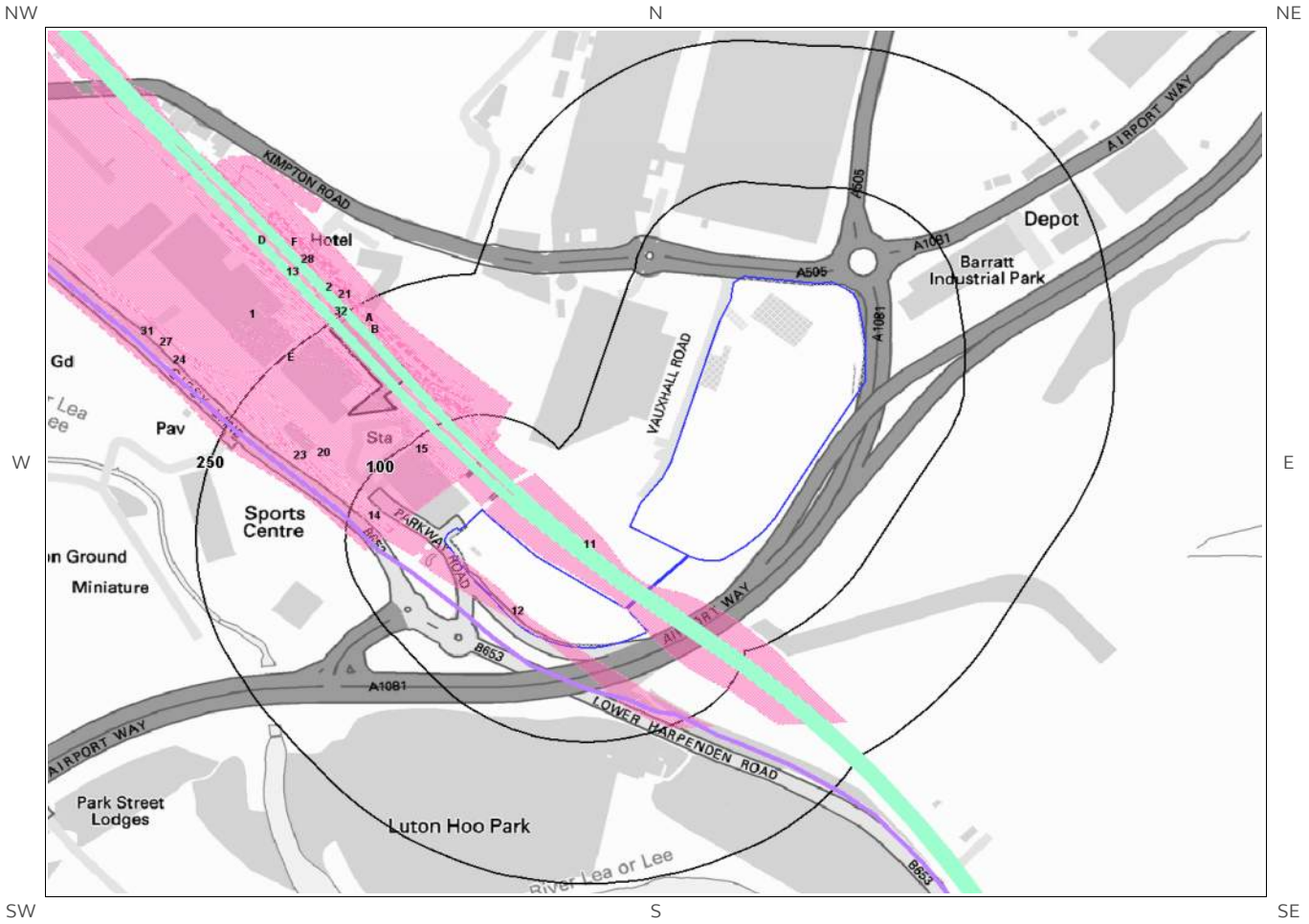
Records of background estimated soil chemistry within 250m of the study site boundary: 11

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

536		3'$;.'	5 6	# 3 3 5# 6	# 3 3 5# 6	4 2 $ 54 6	* 5)-6
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
6.0	SE	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
19.0	SE	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
20.0	SE	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
21.0	SE	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
36.0	SE	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
42.0	SE	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
43.0	E	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg
45.0	E	RuralSoil	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	100 - 200 mg/kg

*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

$+ . ; $ 3'



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Site Outline

250
500
Search Buffers (m)

Underground or Partially Underground Railway / Subway System

Railway Tunnel (OS Mapping)

Abandoned or Dismantled Railway (OpenStreetMap)

Railway Track (OS Mapping)

Railway Track (OpenStreetMap)

High Speed 2

High Speed 2 Revised Proposed Route

Crossrail 1

Railway and/or Tunnel Feature from Historical Mapping

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7 ; $

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary?	No
Have any underground railway lines been identified within 250m of the study site boundary?	No

Database searched and no data found.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary?	No
Have any other railway tunnels been identified within 250m of the site boundary?	No

Database searched and no data found.

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This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary?	Yes
Have any historical railway or tunnel features been identified within 250m of the study site boundary?	Yes

ID	536		4	$	
11	0	On Site	n/a	Railway	1880
12	0	On Site	n/a	Railway	1880
1	39	NW	510326 220724	Railway Sidings	1951
13	45	N	n/a	Railway	1922
2	46	N	510479 220628	Railway Sidings	1973
14	55	W	510517 220408	Railway Sidings	1984
15	56	NW	510562 220476	Railway Sidings	1962

ID	536		4	$	
16D	63	N	n/a	Railway	1899
17C	92	N	510545 220570	Railway Sidings	1962
18C	93	N	510545 220570	Railway Sidings	1984
19C	94	N	510549 220567	Railway Sidings	1973
3A	103	N	510500 220625	Railway Sidings	1947
4A	103	N	510500 220625	Railway Sidings	1922
5B	103	N	510510 220610	Railway Sidings	1938
6A	105	N	510514 220605	Railway Sidings	1922
7B	105	N	510514 220605	Railway Sidings	1938
8B	105	N	510514 220605	Railway Sidings	1938
9B	105	N	510514 220605	Railway Sidings	1922
20	111	NW	510465 220472	Railway Sidings	1962
21	112	N	510479 220629	Railway Sidings	1924
22D	113	N	n/a	Railway	1879
23	116	NW	510442 220468	Railway Sidings	1984
10A	119	N	510513 220621	Railway Sidings	1938
24	148	NW	n/a	Railway	1922
25E	176	NW	510412 220568	Railway Sidings	1968
26E	176	NW	510412 220568	Railway Sidings	1961
27	181	NW	n/a	Railway	1899
28	213	NW	510444 220690	Railway Sidings	1984
29F	223	NW	510439 220695	Railway Sidings	1961
30F	223	NW	510439 220695	Railway Sidings	1968
31	229	NW	n/a	Railway	1879
32	231	NW	510484 220625	Railway Sidings	1973

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This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? No

Have any historical railway lines been identified within 250m of the study site boundary? Yes

536		
27	SW	Abandoned
31	SW	Dismantled
69	W	Dismantled
109	W	Dismantled

Multiple sections of the same track may be listed in the detail above

7 & $+ .

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? Yes

Have any active railway lines been identified within 250m of the study site boundary? Yes

536		4 3	;.'
0	On Site	Midland Main Line	Rail
0	On Site	Midland Main Line	Rail
0	On Site	Midland Main Line	Rail
0	On Site	Midland Main Line	Rail
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Midland Main Line	Rail
0	On Site	Midland Main Line	Rail
0	On Site	Midland Main Line	Rail
0	On Site	Midland Main Line	Rail
58	E	Not given	Multi Track
58	E	Not given	Multi Track

Multiple sections of the same track may be listed in the detail above

7 $+ .) A

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project?	No
Is the study site within 500m of the route of the Crossrail 1 rail project?	No

!"# $ %

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

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Groundsure
LOCATION INTELLIGENCE

1 $ $ & . 8 C
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
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Web:+++7- 7 7 2
BGS Geological Hazards Reports and general geological enquiries

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Tel: 0345 7626 848
DX 716176 Mansfield 5
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Harris and Pearson Building, Brettel Lane
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DY5 3LH
Tel: +44 (0) 1384 262 000
Email: C 7 BA'-7 7 2
Website: +++7A'-7 7 2

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SO16 0AS

Tel: 08456 050505
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Data

3 ")*#
Virginia Villas, High Street, Hartley Witney,
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Website: ' DD+++ 7 3 " 7 3D

getmapping

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Caversham Bridge House
Waterman Place
Reading
Berkshire RG1 8DN
Tel: +44 (0)118 950 0761 E-mail: B'- 7 7 2
Website: ' DD+++7' - 7 3D 3

Acknowledgements: Ordnance Survey © Crown Copyright and/or Database Right. All Rights Reserved. Licence Number [03421028]. This report has been prepared in accordance with the Groundsure Ltd standard Terms and Conditions of business for work of this nature.

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Groundsure's Terms and Conditions can be viewed online at this link:
' DD+++7 7 3D 3 ! ! ! ' ! "D

Groundsure
LOCATION INTELLIGENCE

Ove Arup & Partners International Ltd

OVE ARUP & PARTNERS, BLYTHE GATE,
SOLIHULL, B90 8AE

Groundsure Reference:	GS-4640547
Your Reference:	245580-00_Trailer_Park
Report Date	5 Jan 2018
Report Delivery Method:	Email - pdf

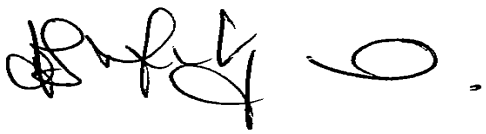
Address: 510890, 220475,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Groundsure
LOCATION INTELLIGENCE

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%& ' ( ) * & +

NW N NE

W E

SW S SE

Aerial Photograph Capture date:	01-Jun-2014
Grid Reference:	510849,220474
Site Size:	5.40ha

Report Reference: GS-4640547
Client Reference: 245580-00_Trailer_Park

Groundsure
LOCATION INTELLIGENCE

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Contents Page 3
Overview of Findings 6
Using this report 10
1. Historical Land Use 11
1. Historical Industrial Sites 12
1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping....12
1.2 Additional Information – Historical Tank Database....17
1.3 Additional Information – Historical Energy Features Database....18
1.4 Additional Information – Historical Petrol and Fuel Site Database....19
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database....19
1.6 Potentially Infilled Land....19
2. Environmental Permits, Incidents and Registers Map 24
2. Environmental Permits, Incidents and Registers 25
2.1 Industrial Sites Holding Licences and/or Authorisations....25
2.1.1 Records of historic IPC Authorisations within 500m of the study site:....25
2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:....25
2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:....27
2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:....27
2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:....27
2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site: 27
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:....28
2.1.8 Records of Licensed Discharge Consents within 500m of the study site:....28
2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site: 29
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:....30
2.2 Dangerous or Hazardous Sites....30
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents....30
2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:....30
2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:....31
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990....31
3. Landfill and Other Waste Sites Map 32
3. Landfill and Other Waste Sites 33
3.1 Landfill Sites....33
3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site: 33
3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site: 33
3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:....33
3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:....34
3.2 Other Waste Sites....34
3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site: 34
3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site: 34
4. Current Land Use Map 36
4. Current Land Uses 37
4.1 Current Industrial Data....37
4.2 Petrol and Fuel Sites....38
4.3 National Grid High Voltage Underground Electricity Transmission Cables....38
4.4 National Grid High Pressure Gas Transmission Pipelines....39

5. Geology 40
5.1 Artificial Ground and Made Ground 40
5.2 Superficial Ground and Drift Geology 40
5.3 Bedrock and Solid Geology 40
6 Hydrogeology and Hydrology 41
6a. Aquifer Within Superficial Geology 41
6b. Aquifer Within Bedrock Geology and Abstraction Licenses 42
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses 43
6d. Hydrogeology – Source Protection Zones within confined aquifer 44
6e. Hydrology – Detailed River Network and River Quality 45
6.Hydrogeology and Hydrology 46
6.1 Aquifer within Superficial Deposits 46
6.2 Aquifer within Bedrock Deposits 46
6.3 Groundwater Abstraction Licences 47
6.4 Surface Water Abstraction Licences 49
6.5 Potable Water Abstraction Licences 49
6.6 Source Protection Zones 50
6.7 Source Protection Zones within Confined Aquifer 50
6.8 Groundwater Vulnerability and Soil Leaching Potential 51
6.9 River Quality 51
6.9.1 Biological Quality: 51
6.9.2 Chemical Quality: 51
6.10 Detailed River Network 51
6.11 Surface Water Features 52
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea) 53
7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map 54
7 Flooding 55
7.1 River and Coastal Zone 2 Flooding 55
7.2 River and Coastal Zone 3 Flooding 55
7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating 55
7.4 Flood Defences 56
7.5 Areas benefiting from Flood Defences 56
7.6 Areas benefiting from Flood Storage 56
7.7 Groundwater Flooding Susceptibility Areas 56
7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes 56
7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions? 56
7.8 Groundwater Flooding Confidence Areas 56
8. Designated Environmentally Sensitive Sites Map 57
8. Designated Environmentally Sensitive Sites 58
8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site: 58
8.2 Records of National Nature Reserves (NNR) within 2000m of the study site: 58
8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site: 58
8.4 Records of Special Protection Areas (SPA) within 2000m of the study site: 58
8.5 Records of Ramsar sites within 2000m of the study site: 58
8.6 Records of Ancient Woodland within 2000m of the study site: 59
8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site: 59
8.8 Records of World Heritage Sites within 2000m of the study site: 59
8.9 Records of Environmentally Sensitive Areas within 2000m of the study site: 59

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site: 59
8.11 Records of National Parks (NP) within 2000m of the study site: 60
8.12 Records of Nitrate Sensitive Areas within 2000m of the study site: 60
8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site: 60
8.14 Records of Green Belt land within 2000m of the study site: 60
9. Natural Hazards Findings 61
9.1 Detailed BGS GeoSure Data 61
9.1.1 Shrink Swell 61
9.1.2 Landslides 61
9.1.3 Soluble Rocks 61
9.1.4 Compressible Ground 62
9.1.5 Collapsible Rocks 62
9.1.6 Running Sand 62
9.2 Radon 63
9.2.1 Radon Affected Areas 63
9.2.2 Radon Protection 63
10. Mining 64
10.1 Coal Mining 64
10.2 Non-Coal Mining 64
10.3 Brine Affected Areas 64
Contact Details 65
Standard Terms and Conditions 67

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Historical Industrial Sites	On-site	0-50	51-250	251-500
Potentially Contaminative Uses identified from 1:10,000 scale mapping	41	30	85	40
Additional Information – Historical Tank Database	0	0	28	31
Additional Information – Historical Energy Features Database	0	0	3	16
Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	4	3
Potentially Infilled Land	26	16	83	30

Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
Industrial Sites Holding Environmental Permits and/or Authorisations				
Records of historic IPC Authorisations	0	0	0	0
Records of Part A(1) and IPPC Authorised Activities	0	0	0	10
Records of Red List Discharge Consents	0	0	0	0
Records of List 1 Dangerous Substances Inventory sites	0	0	0	3
Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
Records of Part A(2) and Part B Activities and Enforcements	1	0	0	3
Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
Records of Licensed Discharge Consents	0	0	1	8
Records of Water Industry Referrals	0	0	0	0
Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	1
Records of COMAH and NIHHS sites	0	0	0	0
Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
National Incidents Recording System, List 2	0	0	4	3
National Incidents Recording System, List 1	0	0	0	0
Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
Landfill Sites						
Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	0	0	1
BGS/DoE Landfill Site Survey	0	0	0	0	0	0
Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	1
Landfill and Other Waste Sites Findings						
Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	1	0	2

Current Land Use	On-site	0-50m	51-250	251-500
Current Industrial Sites Data	2	0	23	Not searched
Records of Petrol and Fuel Sites	0	0	0	0
National Grid Underground Electricity Cables	0	0	0	0
National Grid Gas Transmission Pipelines	0	0	0	0

Geology	
Are there any records of Artificial Ground and Made Ground present beneath the study site?	Yes
Are there any records of Superficial Ground and Drift Geology present beneath the study site?	None
For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Hydrogeology and Hydrology	0-500m
Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	Yes
Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Yes

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
Groundwater Abstraction Licences (within 2000m of the study site)	0	0	4	0	4	9
Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	3
Source Protection Zones (within 500m of the study site)	0	0	1	0	Not searched	Not searched
Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	1	0	1	Not searched	Not searched

Hydrogeology and Hydrology	0-500m					
	On-site	0-50m	51-250	251-500	501-1000	1000-1500
Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site?	No	No	No	No	Yes	No
Detailed River Network entries within 500m of the site	0	0	2	1	Not searched	Not searched
Surface water features within 250m of the study site	Yes	No	Yes	Not searched	Not searched	Not searched

Flooding	
Are there any Enviroment Agency Zone 2 floodplains within 250m of the study site?	Yes
Are there any Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	Yes
What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	Very Low
Are there any Flood Defences within 250m of the study site?	No
Are there any areas benefiting from Flood Defences within 250m of the study site?	No
Are there any areas used for Flood Storage within 250m of the study site?	No
What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Potential at Surface
What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	High

Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
Records of National Nature Reserves (NNR)	0	0	0	0	0	0
Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
Records of Special Protection Areas (SPA)	0	0	0	0	0	0
Records of Ramsar sites	0	0	0	0	0	0
Records of Ancient Woodlands	0	0	0	0	1	5
Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
Records of World Heritage Sites	0	0	0	0	0	0
Records of Environmentally Sensitive Areas	0	0	0	0	0	0

Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
Records of National Parks	0	0	0	0	0	0
Records of Nitrate Sensitive Areas	0	0	0	0	0	0
Records of Nitrate Vulnerable Zones	1	0	0	1	2	2
Records of Green Belt land	0	1	0	1	2	1

Natural Hazards

What is the maximum risk of natural ground subsidence?	Very Low
What is the maximum Shrink-Swell hazard rating identified on the study site?	Negligible
What is the maximum Landslides hazard rating identified on the study site?	Very Low
What is the maximum Soluble Rocks hazard rating identified on the study site?	Very Low
What is the maximum Compressible Ground hazard rating identified on the study site?	Very Low
What is the maximum Collapsible Rocks hazard rating identified on the study site?	Very Low
What is the maximum Running Sand hazard rating identified on the study site?	Very Low
Radon	
Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary.

Mining

Are there any coal mining areas within 75m of the study site?	No
Are there any Non-Coal Mining areas within 50m of the study site boundary?	Yes
Are there any brine affected areas within 75m of the study site?	No

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The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

/ 0 ! & & "

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

/ 1 & * 1 !

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

2/ + && ' 3 "

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

/ % + .

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

/ & 4

Provides information on artificial and superficial deposits and bedrock beneath the study site.

$/ 04 & 4 04 & 4

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

/ -&

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

/ 1 &&4 " "

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

/ 5 & 0 6

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

/ 7

Provides information on areas of coal and non-coal mining and brine affected areas.

/ % !

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

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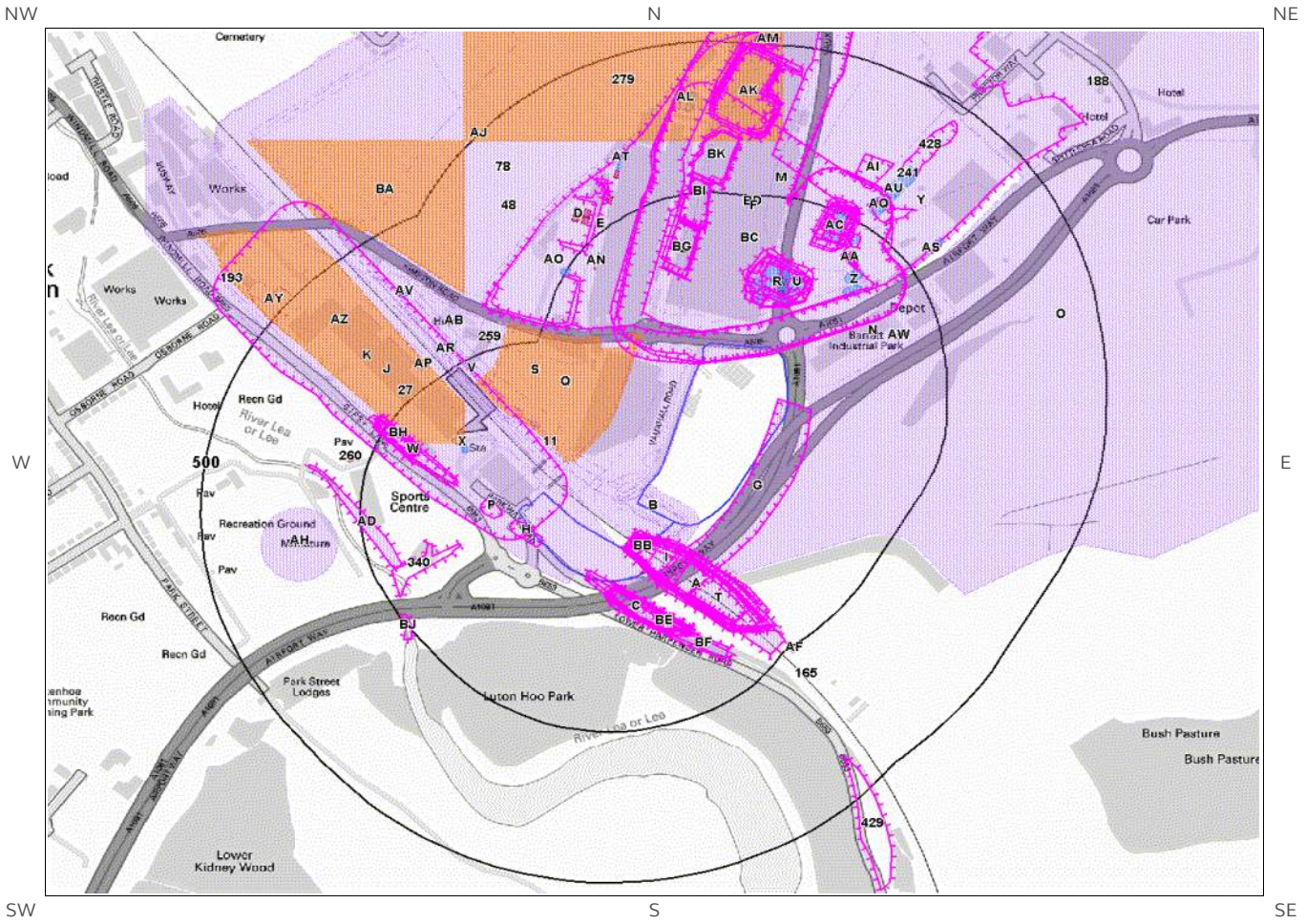
Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier “A” on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as “Not Shown”.

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

/ 0 !&+ .



Historical 1:10,000 and 1:10,560 scale mapping

Industrial Land Use

Potentially Infilled Land

Site Outline

Search Buffers (m)

250

500

Historical 1:2,500, 1:1,250 and 1:500 scale mapping

Energy Features

Petrol Stations

Tanks

Garages

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The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 196

	! 819	!	.	
1C	0	On Site	Cuttings	1879
2A	0	On Site	Cuttings	1879
3A	0	On Site	Cuttings	1973
4A	0	On Site	Cuttings	1938
5A	0	On Site	Cuttings	1888
6A	0	On Site	Cuttings	1922
7A	0	On Site	Cuttings	1947
8A	0	On Site	Cuttings	1922
9A	0	On Site	Cuttings	1938
10A	0	On Site	Cuttings	1938
11	0	On Site	Rifle Range	1900
12B	0	On Site	Miniature Rifle Range	1947
13B	0	On Site	Miniature Rifle Range	1922
14C	0	On Site	Cuttings	1888
15A	0	On Site	Cuttings	1938
16A	0	On Site	Cuttings	1922
17A	0	On Site	Cuttings	1888
18C	0	On Site	Cuttings	1888
19D	0	On Site	Unspecified Works	1991
20D	0	On Site	Unspecified Works	1985
21E	0	On Site	Unspecified Works	1951
22E	0	On Site	Unspecified Works	1973
23F	0	On Site	Sewage Farm	1947
24F	0	On Site	Sewage Farm	1938
25BC	0	On Site	Sewage Farm	1900
26J	0	On Site	Sewage Farm	1900
27	0	On Site	Unspecified Commercial/Industrial	1951
28B	0	On Site	Miniature Rifle Range	1938
29B	0	On Site	Miniature Rifle Range	1951
30G	0	On Site	Cuttings	1991
31G	0	On Site	Cuttings	1985
32B	0	On Site	Miniature Rifle Range	1938
33B	0	On Site	Miniature Rifle Range	1938

34H	0	On Site	Unspecified Heap	1985
35H	0	On Site	Unspecified Heap	1973
36I	0	On Site	Cuttings	1985
37I	0	On Site	Cuttings	1991
38BB	0	On Site	Cuttings	1900
39B	0	On Site	Miniature Rifle Range	1922
40B	0	On Site	Miniature Rifle Range	1938
41B	0	On Site	Miniature Rifle Range	1922
42C	6	S	Cuttings	1938
43J	6	NW	Unspecified Works	1973
44K	6	NW	Unspecified Works	1985
45K	6	NW	Unspecified Works	1991
46C	8	S	Cuttings	1922
47C	8	S	Cuttings	1922
48	9	NE	Motor Works	1938
49L	9	NW	Abandoned Airfield	1938
50L	9	NW	Abandoned Airfield	1938
51C	11	S	Cuttings	1922
52C	11	S	Cuttings	1947
53C	12	S	Cuttings	1900
54C	13	S	Cuttings	1938
55BE	14	S	Cuttings	1951
56T	16	SE	Cuttings	1951
57Q	16	NW	Motor Car Engineering Works	1947
58BD	20	N	Sewage Farm	1922
59M	21	N	Sewage Farm	1922
60M	21	N	Sewage Farm	1922
61N	24	E	Unspecified Depot	1991
62N	24	E	Unspecified Depot	1985
63O	24	E	Airport	1991
64O	24	E	Airport	1985
65P	26	W	Unspecified Heap	1985
66P	26	W	Unspecified Heap	1973
67C	27	S	Cuttings	1973
68A	32	SE	Cuttings	1900
69F	34	N	Corporation Sewage Farm	1938
70AZ	39	NW	Railway Sidings	1951
71AR	46	N	Railway Sidings	1973
72S	60	NE	Motor Car Engineering Works	1922
73Q	61	NE	Motor Cars Engineering Works	1922
74Q	61	NE	Motor Cars Engineering Works	1922
75R	65	N	Sewage Tanks	1938
76R	67	N	Sewage Tanks	1947

77R	67	N	Sewage Tanks	1922
78	68	W	Motor Works	1947
79S	68	NE	Unspecified Commercial/Industrial	1938
80R	71	N	Sewage Tanks	1938
81R	71	N	Sewage Tanks	1922
82R	71	N	Sewage Tanks	1922
83R	71	N	Sewage Tanks	1938
84T	72	SE	Cuttings	1985
85T	74	SE	Cuttings	1991
86R	79	N	Unspecified Ground Workings	1938
87R	87	N	Sewage Tanks	1938
88U	102	NE	Sewage Tanks	1938
89U	102	NE	Sewage Tanks	1922
90U	102	NE	Sewage Tanks	1922
91U	102	NE	Sewage Tanks	1938
92V	103	N	Railway Sidings	1947
93V	103	N	Railway Sidings	1922
94V	103	N	Railway Sidings	1938
95V	105	N	Railway Sidings	1938
96V	105	N	Railway Sidings	1922
97V	105	N	Railway Sidings	1938
98V	105	N	Railway Sidings	1922
99W	108	NW	Cuttings	1879
100R	109	N	Sewage Tanks	1922
101R	109	N	Sewage Tanks	1938
102R	109	N	Sewage Tanks	1938
103R	109	N	Sewage Tanks	1922
104W	110	NW	Cuttings	1888
105W	110	NW	Cuttings	1888
106BF	112	SE	Cuttings	1879
107V	119	N	Railway Sidings	1938
108X	125	NW	Unspecified Tanks	1985
109X	125	NW	Unspecified Tanks	1973
110Y	126	NE	Unspecified Works	1985
111Y	126	NE	Unspecified Works	1973
112Y	126	NE	Unspecified Works	1991
113Z	142	NE	Unspecified Tanks	1985
114Z	142	NE	Unspecified Tanks	1973
115Z	142	NE	Unspecified Tanks	1991
116W	183	NW	Cuttings	1922
117W	183	NW	Cuttings	1947
118AC	183	N	Sewage Tanks	1938
119AA	183	NE	Sewage Tanks	1938
120AA	185	NE	Sewage Tanks	1947

121AA	185	NE	Sewage Tanks	1922
122AB	186	NW	Hydraulic Engineering Works	1922
123AB	186	NW	Hydraulic Engineering Works	1922
124W	186	NW	Cuttings	1900
125AA	186	NE	Sewage Tanks	1900
126W	186	NW	Cuttings	1938
127W	186	NW	Cuttings	1922
128W	186	NW	Cuttings	1938
129W	186	NW	Cuttings	1922
130AC	187	N	Sewage Tanks	1922
131AC	187	N	Sewage Tanks	1947
132W	188	NW	Cuttings	1938
133BH	189	NW	Cuttings	1938
134AC	198	NE	Unspecified Ground Workings	1938
135AC	201	NE	Sewage Tanks	1922
136AC	201	NE	Sewage Tanks	1938
137AC	201	NE	Sewage Tanks	1922
138AC	201	NE	Sewage Tanks	1938
139AD	204	SW	Watercress Beds	1938
140AD	204	SW	Watercress Beds	1922
141AD	204	SW	Watercress Beds	1938
142AD	204	SW	Watercress Beds	1922
143AO	207	W	Hydraulic Engineering Works	1922
144AE	208	NW	Unspecified Ground Workings	1922
145AE	208	NW	Unspecified Ground Workings	1922
146AC	210	NE	Sewage Tanks	1938
147AC	210	NE	Sewage Tanks	1922
148AC	210	NE	Sewage Tanks	1938
149AC	210	NE	Sewage Tanks	1922
150AC	212	NE	Sewage Tanks	1938
151AC	229	NE	Unspecified Heap	1973
152AC	238	NE	Sewage Tanks	1922
153AC	238	NE	Sewage Tanks	1938
154AC	238	NE	Sewage Tanks	1922
155AC	238	NE	Sewage Tanks	1938
156AX	244	NW	Unspecified Ground Workings	1938
157AF	255	SE	Railway Building	1938
158AF	255	SE	Railway Building	1947
159AF	255	SE	Railway Building	1922
160AG	288	NW	Unspecified Ground Workings	1922

161AG	288	NW	Unspecified Ground Workings	1922
162AH	290	W	Miniature Rifle Range	1985
163AH	290	W	Miniature Rifle Range	1973
164AH	290	W	Miniature Rifle Range	1991
165	299	SE	Railway Building	1879
166AI	305	NE	Unspecified Heap	1985
167AI	305	NE	Unspecified Heap	1991
168AI	305	NE	Unspecified Heap	1973
169AJ	326	N	Motor Works	1938
170AJ	326	N	Motor Works	1938
171AJ	339	NW	Motor Works	1938
172AK	344	N	Filter Beds	1922
173AK	344	N	Filter Beds	1947
174AK	344	N	Unspecified Ground Workings	1938
175AK	344	N	Unspecified Ground Workings	1922
176AK	344	N	Unspecified Ground Workings	1938
177AK	344	N	Unspecified Ground Workings	1922
178AK	349	N	Filter Beds	1938
179AK	350	N	Unspecified Tanks	1938
180AK	350	N	Unspecified Tanks	1922
181AK	350	N	Unspecified Tanks	1938
182AK	350	N	Unspecified Tanks	1922
183AK	354	N	Unspecified Ground Workings	1938
184AK	360	N	Unspecified Tanks	1938
185AL	386	N	Unspecified Tanks	1991
186AL	386	N	Unspecified Tanks	1973
187AL	386	N	Unspecified Tanks	1985
188	476	NE	Airport	1973
189AM	494	N	Sedimentation Tanks	1938
190AM	494	N	Sedimentation Tanks	1922
191AM	494	N	Sedimentation Tanks	1938
192AM	494	N	Sedimentation Tanks	1922
193	496	NW	Railway Sidings	1973
194AM	499	N	Sedimentation Tanks	1947
195AM	499	N	Sedimentation Tanks	1922
196AM	499	N	Sedimentation Tanks	1938

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The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 59

	! >1?	!	Use	
197U	70	N	Sewage Tanks	1924
198U	78	NE	Sewage Tanks	1901
199X	125	NW	Unspecified Tank	1984
200X	128	NW	Unspecified Tank	1984
201Z	139	NE	Tanks	1993
202Z	140	NE	Unspecified Tank	1971
203Z	140	NE	Tanks	1984
204Z	140	NE	Tanks	1974
205Z	140	NE	Tanks	1962
206X	144	NW	Unspecified Tank	1968
207X	145	NW	Unspecified Tank	1984
208X	145	NW	Unspecified Tank	1984
209Z	154	NE	Unspecified Tank	1971
210Z	158	NE	Tanks	1993
211Z	158	NE	Unspecified Tank	1971
212Z	158	NE	Tanks	1962
213Z	158	NE	Tanks	1974
214Z	159	NE	Tanks	1984
215Z	174	NE	Unspecified Tank	1971
216AA	187	NE	Sewage Tanks	1901
217AA	187	NE	Sewage Tanks	1924
218AC	203	NE	Sewage Tanks	1924
219AC	203	NE	Sewage Tanks	1901
220AC	214	NE	Sewage Tanks	1901
221AC	214	NE	Sewage Tanks	1924
222AN	217	NW	Unspecified Tank	1996
223AN	223	NW	Unspecified Tank	1996
224AO	244	NW	Unspecified Tank	1996
225AQ	270	NE	Tanks	1993
226AP	276	NW	Unspecified Tank	1984
227AP	276	NW	Unspecified Tank	1968
228AP	276	NW	Unspecified Tank	1961
229AQ	282	NE	Tanks	1984
230AR	284	NW	Unspecified Tank	1924
231AS	288	NE	Tanks	1993
232AS	289	NE	Tanks	1974
233AS	289	NE	Tanks	1984

234AU	304	NE	Tanks	1993
235AS	307	NE	Unspecified Tank	1993
236AS	307	NE	Tanks	1974
237AS	308	NE	Tanks	1984
238AQ	316	NE	Tanks	1984
239AT	321	NW	Unspecified Tank	1996
240AT	322	NW	Unspecified Tank	1986
241	339	NE	Tanks	1993
242AU	350	NE	Tanks	1984
243AL	385	N	Tanks	1975
244AL	385	N	Tanks	1961
245AL	386	N	Unspecified Tank	1962
246AL	386	N	Unspecified Tank	1993
247AV	389	NW	Unspecified Tank	1995
248AV	389	NW	Unspecified Tank	1995
249AL	393	N	Unspecified Tank	1962
250AL	393	N	Unspecified Tank	1993
251AL	405	N	Unspecified Tank	1962
252AL	405	N	Unspecified Tank	1993
253AL	411	N	Unspecified Tank	1962
254AL	411	N	Unspecified Tank	1993
255AM	496	N	Sedimentation Tanks	1924

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The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 19

	! >1?	Direction	.	
256AW	180	E	Electricity Substation	1993
257AW	180	E	Electricity Substation	1984
258AN	213	NW	Electricity Substation	1996
259	262	N	Electricity Substation	1996
260	272	W	Electricity Substation	1995
261AX	272	NW	Electricity Substation	1996
262AX	274	NW	Electricity Substation	1986
263AG	279	NW	Electricity Substation	1996
264AX	279	NW	Electricity Substation	1996
265AG	280	NW	Electricity Substation	1986
266AX	281	NW	Electricity Substation	1986
267AX	286	NW	Electricity Substation	1996
268AX	287	NW	Electricity Substation	1986

269AX	292	NW	Electricity Substation	1996
270AX	294	NW	Electricity Substation	1986
271AT	309	NW	Electricity Substation	1996
272AT	311	NW	Electricity Substation	1986
273AY	480	NW	Electricity Transmission Station	1995
274AY	480	NW	Electricity Transmission Station	1995

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The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

/ & 1 : 0 ! & 7 @ !& (=

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 7

	! >1?	!	.	
275Q	63	NE	Motor Cars Engineering Works	1924
276Q	63	NE	Motor Cars Engineering Works	1924
277AZ	140	NW	Motor Vehicle Works	1968
278AZ	141	NW	Motor Vehicle Works	1984
279	336	N	Motor Vehicle Works	1975
280BA	352	N	Motor Vehicle Works	1984
281BA	353	N	Motor Vehicle Works	1968

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Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 155

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

	! >1?	!	.	
282BB	0	On Site	Cuttings	1900
283A	0	On Site	Cuttings	1947

284A	0	On Site	Cuttings	1922
285A	0	On Site	Cuttings	1938
286J	0	On Site	Sewage Farm	1900
287C	0	On Site	Cuttings	1879
288A	0	On Site	Cuttings	1879
289A	0	On Site	Cuttings	1973
290BB	0	On Site	Cuttings	1991
291BB	0	On Site	Cuttings	1985
292G	0	On Site	Cuttings	1985
293G	0	On Site	Cuttings	1991
294H	0	On Site	Unspecified Heap	1973
295H	0	On Site	Unspecified Heap	1985
296A	0	On Site	Cuttings	1938
297A	0	On Site	Cuttings	1938
298A	0	On Site	Cuttings	1922
299A	0	On Site	Cuttings	1888
300C	0	On Site	Cuttings	1888
301A	0	On Site	Cuttings	1938
302A	0	On Site	Cuttings	1922
303A	0	On Site	Cuttings	1888
304C	0	On Site	Cuttings	1888
305BC	0	On Site	Sewage Farm	1900
306BD	0	On Site	Sewage Farm	1938
307F	0	On Site	Sewage Farm	1947
308C	6	S	Cuttings	1938
309C	8	S	Cuttings	1922
310C	8	S	Cuttings	1922
311C	11	S	Cuttings	1947
312C	11	S	Cuttings	1922
313C	12	S	Cuttings	1900
314C	13	S	Cuttings	1938
315BE	14	S	Cuttings	1951
316T	16	SE	Cuttings	1951
317BD	20	N	Sewage Farm	1922
318M	21	N	Sewage Farm	1922
319M	21	N	Sewage Farm	1922
320P	26	W	Unspecified Heap	1973
321P	26	W	Unspecified Heap	1985
322C	27	S	Cuttings	1973
323T	32	SE	Cuttings	1900
324U	65	N	Sewage Tanks	1938
325U	67	N	Sewage Tanks	1947
326U	67	N	Sewage Tanks	1922
327R	71	N	Sewage Tanks	1938
328R	71	N	Sewage Tanks	1922
329R	71	N	Sewage Tanks	1922

330R	71	N	Sewage Tanks	1938
331T	72	SE	Cuttings	1985
332T	74	SE	Cuttings	1991
333U	75	N	Ponds	1900
334U	79	N	Unspecified Ground Workings	1938
335U	87	N	Sewage Tanks	1938
336U	102	NE	Sewage Tanks	1922
337U	102	NE	Sewage Tanks	1938
338U	102	NE	Sewage Tanks	1938
339U	102	NE	Sewage Tanks	1922
340	107	SW	Pond	1951
341W	108	NW	Cuttings	1879
342R	109	N	Sewage Tanks	1922
343R	109	N	Sewage Tanks	1938
344R	109	N	Sewage Tanks	1922
345R	109	N	Sewage Tanks	1938
346W	110	NW	Cuttings	1888
347W	110	NW	Cuttings	1888
348BF	112	SE	Cuttings	1879
349BG	112	N	Ponds	1938
350BG	112	N	Ponds	1922
351BG	112	N	Ponds	1922
352BG	112	N	Ponds	1938
353BG	113	N	Ponds	1938
354BG	115	N	Ponds	1922
355BG	115	N	Ponds	1947
356BI	128	N	Ponds	1938
357BH	183	NW	Cuttings	1922
358BH	183	NW	Cuttings	1947
359AC	183	N	Sewage Tanks	1938
360AA	183	NE	Sewage Tanks	1938
361AA	185	NE	Sewage Tanks	1922
362AA	185	NE	Sewage Tanks	1947
363BH	186	NW	Cuttings	1900
364AA	186	NE	Sewage Tanks	1900
365BH	186	NW	Cuttings	1938
366BH	186	NW	Cuttings	1922
367BH	186	NW	Cuttings	1938
368BH	186	NW	Cuttings	1922
369AC	187	N	Sewage Tanks	1922
370AC	187	N	Sewage Tanks	1947
371BH	188	NW	Cuttings	1938
372BI	188	N	Pond	1938
373BI	188	N	Pond	1922
374BI	188	N	Pond	1922

375BI	188	N	Pond	1938
376BH	189	NW	Cuttings	1938
377BI	189	N	Pond	1938
378BI	191	N	Pond	1922
379BI	191	N	Pond	1947
380AC	198	NE	Unspecified Ground Workings	1938
381AC	201	NE	Sewage Tanks	1922
382AC	201	NE	Sewage Tanks	1938
383AC	201	NE	Sewage Tanks	1922
384AC	201	NE	Sewage Tanks	1938
385AC	202	NE	Ponds	1900
386AD	204	SW	Watercress Beds	1938
387AD	204	SW	Watercress Beds	1922
388AD	204	SW	Watercress Beds	1938
389AD	204	SW	Watercress Beds	1922
390AE	208	NW	Unspecified Ground Workings	1922
391AE	208	NW	Unspecified Ground Workings	1922
392AC	210	NE	Sewage Tanks	1922
393AC	210	NE	Sewage Tanks	1922
394AC	210	NE	Sewage Tanks	1938
395AC	210	NE	Sewage Tanks	1938
396AC	212	NE	Sewage Tanks	1938
397AC	229	NE	Unspecified Heap	1973
398AC	238	NE	Sewage Tanks	1922
399AC	238	NE	Sewage Tanks	1938
400AC	238	NE	Sewage Tanks	1938
401AC	238	NE	Sewage Tanks	1922
402BJ	240	SW	Pond	1938
403BJ	240	SW	Pond	1922
404BJ	240	SW	Pond	1938
405BJ	240	SW	Pond	1922
406AX	244	NW	Unspecified Ground Workings	1938
407BK	262	N	Pond	1938
408BK	262	N	Pond	1938
409BK	262	N	Pond	1922
410BK	262	N	Pond	1922
411BK	262	N	Pond	1938
412BK	263	N	Pond	1947
413BK	263	N	Pond	1922
414AQ	271	NE	Ponds	1973
415AG	288	NW	Unspecified Ground Workings	1922
416AG	288	NW	Unspecified Ground Workings	1922

417AI	305	NE	Unspecified Heap	1973
418AI	305	NE	Unspecified Heap	1991
419AI	305	NE	Unspecified Heap	1985
420AK	344	N	Filter Beds	1922
421AK	344	N	Filter Beds	1947
422AK	344	N	Unspecified Ground Workings	1922
423AK	344	N	Unspecified Ground Workings	1922
424AK	344	N	Unspecified Ground Workings	1938
425AK	344	N	Unspecified Ground Workings	1938
426AK	349	N	Filter Beds	1938
427AK	354	N	Unspecified Ground Workings	1938
428	356	NE	Ponds	1973
429	433	SE	Pond	1899
430AM	494	N	Sedimentation Tanks	1922
431AM	494	N	Sedimentation Tanks	1938
432AM	494	N	Sedimentation Tanks	1922
433AM	494	N	Sedimentation Tanks	1938
434AM	499	N	Sedimentation Tanks	1947
435AM	499	N	Sedimentation Tanks	1922
436AM	499	N	Sedimentation Tanks	1938

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NW N NE

W E

SW S SE

Site Outline

250 / 500 Search Buffers (m)

Recorded Pollution Incident

Dangerous Substances (List 1)

Dangerous Substances (List 2)

Water Industry Referrals

Licenced Discharge Consents

Red List Discharge Consents

RAS 3 & 4 Authorisations

Part A(1) Authorised Processes and Historic IPC Authorisations

Part A(2) and Part B Authorised Processes

COMAH / NIHHS Sites

Sites Determined as Contaminated Land

Hazardous Substance Consents and Enforcements

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/ &" 0& +!! A

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

10

The following Part A(1) and IPPC Authorised Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

	! >1?	!	5	&	
35C	298	NW	510640 220840	Operator: Ibc Vehicles Limited Installation Name: Ibc Vehicles Ltd Process: COATING, PRINTING AND TEXTILES; USING ORGANIC SOLVENTS >150KG/HR OR 200 T/A UNLESS 6.4 A(1)	Permit Number: FP3836CR Original Permit Number: BJ9428IH EPR Reference: - Issue Date: 17/7/2012 Effective Date: 17/7/2012 Last date noted as effective: 2017-11-30 Status: Superceded
36C	298	NW	510640 220840	Operator: Ibc Vehicles Limited Installation Name: Ibc Vehicles Ltd Process: COMBUSTION; ANY FUEL =>50MW	Permit Number: FP3836CR Original Permit Number: BJ9428IH EPR Reference: - Issue Date: 17/7/2012 Effective Date: 17/7/2012 Last date noted as effective: 2017-11-30 Status: Superceded
37C	298	NW	510640 220840	Operator: Ibc Vehicles Limited Installation Name: Ibc Vehicles Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M	Permit Number: NP3232ET Original Permit Number: BJ9428IH EPR Reference: - Issue Date: 28/2/2014 Effective Date: 28/2/2014 Last date noted as effective: 2017-11-30 Status: Effective

	! >1?	!	5	&	
38C	298	NW	510640 220840	Operator: Ibc Vehicles Limited Installation Name: Ibc Vehicles Ltd Process: COMBUSTION; ANY FUEL =>50MW	Permit Number: NP3232ET Original Permit Number: BJ9428IH EPR Reference: - Issue Date: 28/2/2014 Effective Date: 28/2/2014 Last date noted as effective: 2017-11-30 Status: Effective
39C	298	NW	510640 220840	Operator: Ibc Vehicles Limited Installation Name: Ibc Vehicles Ltd Process: COATING, PRINTING AND TEXTILES; USING ORGANIC SOLVENTS >150KG/HR OR 200 T/A UNLESS 6.4 A(1)	Permit Number: NP3232ET Original Permit Number: BJ9428IH EPR Reference: - Issue Date: 28/2/2014 Effective Date: 28/2/2014 Last date noted as effective: 2017-11-30 Status: Effective
40C	298	NW	510640 220840	Operator: Ibc Vehicles Limited Installation Name: Ibc Vehicles Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M	Permit Number: FP3836CR Original Permit Number: BJ9428IH EPR Reference: - Issue Date: 17/7/2012 Effective Date: 17/7/2012 Last date noted as effective: 2017-11-30 Status: Superceded
41D	308	NW	510480 220690	Operator: Ibc Vehicles Limited Installation Name: Ibc Vehicles Ltd Process: SURFACE TREATING METALS AND PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M	Permit Number: BJ9428IH Original Permit Number: BJ9428IH EPR Reference: - Issue Date: 30/4/2004 Effective Date: 30/4/2004 Last date noted as effective: 2017-11-30 Status: Superceded
42D	308	NW	510480 220690	Operator: Ibc Vehicles Limited Installation Name: Ibc Vehicles Ltd Process: COMBUSTION; ANY FUEL =>50MW	Permit Number: BJ9428IH Original Permit Number: BJ9428IH EPR Reference: - Issue Date: 30/4/2004 Effective Date: 30/4/2004 Last date noted as effective: 2017-11-30 Status: Superceded
43D	308	NW	510480 220690	Operator: Ibc Vehicles Ltd Installation Name: - Process: SURFACE TREATING METALS & PLASTICS; ELECTROLYTIC/CHEMICAL >30 CU M	Permit Number: BJ9428 Original Permit Number: BJ9428 EPR Reference: - Issue Date: 30-4-2004 Effective Date: 30-4-2004 Last date noted as effective: 2004-10-01 Status: Superseded By Pas
44D	308	NW	510480 220690	Operator: Ibc Vehicles Limited Installation Name: Ibc Vehicles Ltd Process: COATING, PRINTING AND TEXTILES; USING ORGANIC SOLVENTS >150KG/HR OR 200 T/A UNLESS 6.4 A(1)	Permit Number: BJ9428IH Original Permit Number: BJ9428IH EPR Reference: - Issue Date: 30/4/2004 Effective Date: 30/4/2004 Last date noted as effective: 2017-11-30 Status: Superceded

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

3

The following List 1 Dangerous Substance Inventory Site records are represented as points on the Environmental Permits, Incidents and Registers Map:

	! >1?	!	5	&	
8A	255	NE	511200 220800	Name: Vauxhall Motors Kimpton Road Luton Status: Not Active Receiving Water: -	Authorised Substances: -
9A	255	NE	511200 220800	Name: Vauxhall Motors Ltd, Kimpton Road, Luton Status: Not Active Receiving Water: Lee	Authorised Substances: Mercury (other), Cadmium
10A	255	NE	511200 220800	Name: Vauxhall Motors Kimpton Road Luton Status: Not Active Receiving Water: -	Authorised Substances: -

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

4

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

	! >1?	!	5	&	
30	0	On Site	510899 220600	Address: Ibc Vehicles, Kimpton Rd, Luton, Bedfordshire, LU2 0TY Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices

	! >1?	!	5	&	
31D	312	NW	510491 220700	Address: Vauxhall Motors, Kimpton Rd, Luton, Bedfordshire, LU2 0TB Process: Combustion & Incineration Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices
32E	346	NW	510362 220650	Address: T & D Automotive, Kimpton Rd Process: coating & enamelling process Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices
33E	353	NW	510362 220661	Address: Vauxhall Motors, Kimpton Rd, Luton, Bedfordshire, LU2 0TB Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notices Comment: No Enforcement Notices

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

9

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

	! >1?	!	5	&	
11	205	SW	510400 220300	Address: CAPABILITY GREEN BUSINESS PARK, LUT, CAPABILITY GREEN BUSINESS PARK, LUTON, BEDS Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.1096 Permit Version: 1	Receiving Water: RIVER LEE (LUTON HOO LAKE) Status: REVOKED - UNSPECIFIED Issue date: 31/07/1986 Effective Date: 31-Jul-1986 Revocation Date: 24/03/1992
12B	308	SE	510900 220000	Address: THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM, LUTON HOO, LUTON, BEDFORDSHIRE Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTM.0213 Permit Version: 1	Receiving Water: RIVER LEE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 07/05/1992 Effective Date: 07-May-1992 Revocation Date: 07/03/1993
13B	308	SE	510900 220000	Address: THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM, LUTON HOO, LUTON, BEDFORDSHIRE Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CNTM.0213 Permit Version: 2	Receiving Water: RIVER LEE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 07/05/1992 Effective Date: 08-Mar-1993 Revocation Date: -

	! >1?	!	5		&
14B	308	SE	510900 220000	Address: THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM, LUTON HOO, LUTON, BEDFORDSHIRE Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CNTM.0213 Permit Version: 2	Receiving Water: RIVER LEE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 07/05/1992 Effective Date: 08-Mar-1993 Revocation Date: -
15B	308	SE	510900 220000	Address: THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM, LUTON HOO, LUTON, BEDFORDSHIRE Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTM.0213 Permit Version: 2	Receiving Water: RIVER LEE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 07/05/1992 Effective Date: 08-Mar-1993 Revocation Date: -
16B	308	SE	510900 220000	Address: THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM, LUTON HOO, LUTON, BEDFORDSHIRE Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CNTM.0213 Permit Version: 1	Receiving Water: RIVER LEE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 07/05/1992 Effective Date: 07-May-1992 Revocation Date: 07/03/1993
17B	308	SE	510900 220000	Address: THE SEWERAGE SYSTEM, LUTON HOO, LUT, THE SEWERAGE SYSTEM, LUTON HOO, LUTON, BEDFORDSHIRE Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CNTM.0213 Permit Version: 1	Receiving Water: RIVER LEE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 07/05/1992 Effective Date: 07-May-1992 Revocation Date: 07/03/1993
18B	312	SE	510910 220000	Address: COMBINED SEWER OVERFLOW, KIMPTON RD, LUTON, LU2 0JY Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CANM.0473 Permit Version: 1	Receiving Water: THE RIVER LEE Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 26/09/2002 Effective Date: 26-Sep-2002 Revocation Date: 22/06/2003
19B	312	SE	510910 220000	Address: COMBINED SEWER OVERFLOW, KIMPTON RD, LUTON, LU2 0JY Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CANM.0473 Permit Version: 2	Receiving Water: THE RIVER LEE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 26/09/2002 Effective Date: 23-Jun-2003 Revocation Date: -

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

1

The following records are represented as points on the Environmental Permits, Incidents and Registers Map:

! >1?	!	((& ! ! 5 1=	5	((& ! "	((& !		&	& ! 1 !
45F	284	N	No Details	510930 220945	Historical Consent	No Details	IBC Vehicles Ltd, PO Box 163, Kimpton Road, Luton, Bedfordshire, LU2 0TY	No details.	Enforcement: No Enforcement Notices Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified

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Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

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2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

7

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

	! >1?	!	5	&	
1	145	N	510974 220804	Incident Date: 13-Aug-2012 Incident Identification: 1025254 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
2	176	N	510968 220834	Incident Date: 22-Jul-2013 Incident Identification: 1137214 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
3	220	SW	510409 220253	Incident Date: 15-Nov-2002 Incident Identification: 121024 Pollutant: Contaminated Water Pollutant Description: Urban Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4	246	S	510860 220050	Incident Date: 26-Jul-2001 Incident Identification: 19403 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

	! >1?	!	5	&	
5	259	SW	510414 220180	Incident Date: 28-Feb-2012 Incident Identification: 965669 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
6	273	S	510871 220025	Incident Date: 01-Aug-2002 Incident Identification: 123305 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	313	W	510280 220448	Incident Date: 30-Jul-2002 Incident Identification: 95716 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

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How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site? 0

Database searched and no data found.

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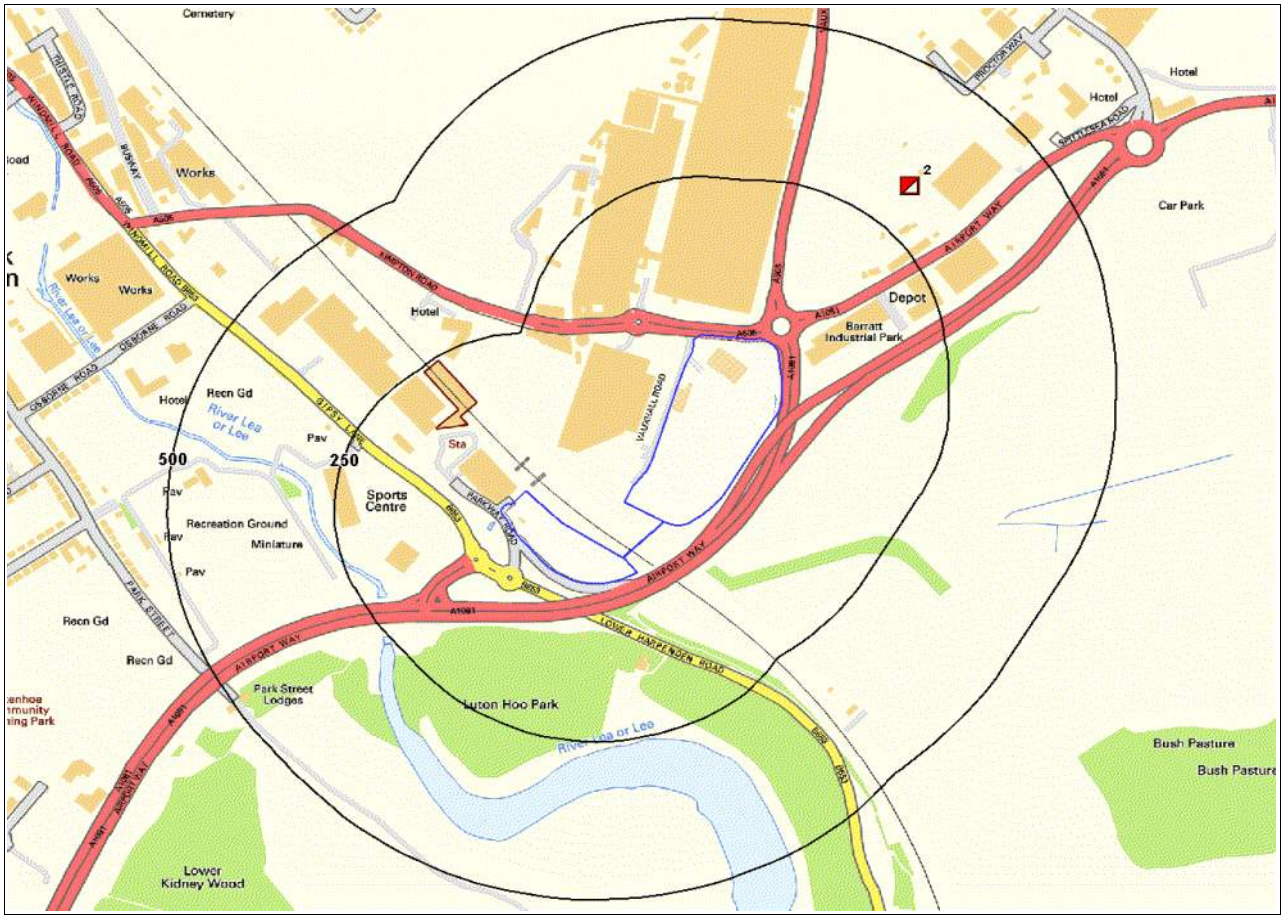
NW N NE

W E

SW S SE



Site Outline

250 / 500 Search Buffers (m)

EA/NRW Active Landfill

EA/NRW Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

EA/NRW Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

2/ + && ' 3 "

2/ + && "

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

1

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

	! >1?	!	5	&	
Not shown	1459	NE	512400 221700	Site Address: Luton Airport, Eaton Green Road, Luton, Bedfordshire Waste Licence: - Site Reference: 7/1976, 32/1993 Waste Type: Inert, Industrial, Commercial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Luton County Borough Council Licence Holder: Luton Borough Council First Recorded: 01-Jan-1937 Last Recorded: 01-Jan-1978

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

1

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

	! >1?	!	5	"	" !	;4(
Not shown	1458	NE	512489 221635	Refuse Tip	1971 mapping	Polygon

2/ ' 3 "

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

3

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

	! >1?	!	5	&	
2	325	NE	511200 220900	Site Address: Andy Ronald, Central Services, Kimpton Road, Luton, Bedfordshire, LU2 0TY Type: In-House Storage Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VAU001 EPR reference: EA/EPR/LP3197NX/V003 Operator: Vauxhall Motors Ltd Waste Management licence No: 80459 Annual Tonnage: 75000.0	Issue Date: 22/04/1981 Effective Date: - Modified: 30/06/1997 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC Site Name: Vauxhall Airport Way (Kimpton Lane) Correspondence Address: -
Not shown	1416	NW	509676 221473	Site Address: Crescent Road Railway Yard, Church Street, Luton, Beds, LU1 3JG Type: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BAW001 EPR reference: - Operator: B & A Waste Services Limited Waste Management licence No: 80543 Annual Tonnage: 54000.0	Issue Date: 26/03/2002 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Crescent Road Railway Yard Correspondence Address: Ryebank, 6, Priory Close, Turvey, Beds, MK43 8BG

	! >1?	!	5	&	
Not shown	1416	NW	509676 221473	Site Address: British Rail Estate, Church Street, Luton, Bedfordshire, LU1 3JG Type: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BAW001 EPR reference: EA/EPR/HP3997NA/A001 Operator: B & A Waste Services Ltd Waste Management licence No: 80543 Annual Tonnage: 54000.0	Issue Date: 26/03/2002 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: Crescent Road Railway Yard Correspondence Address: -

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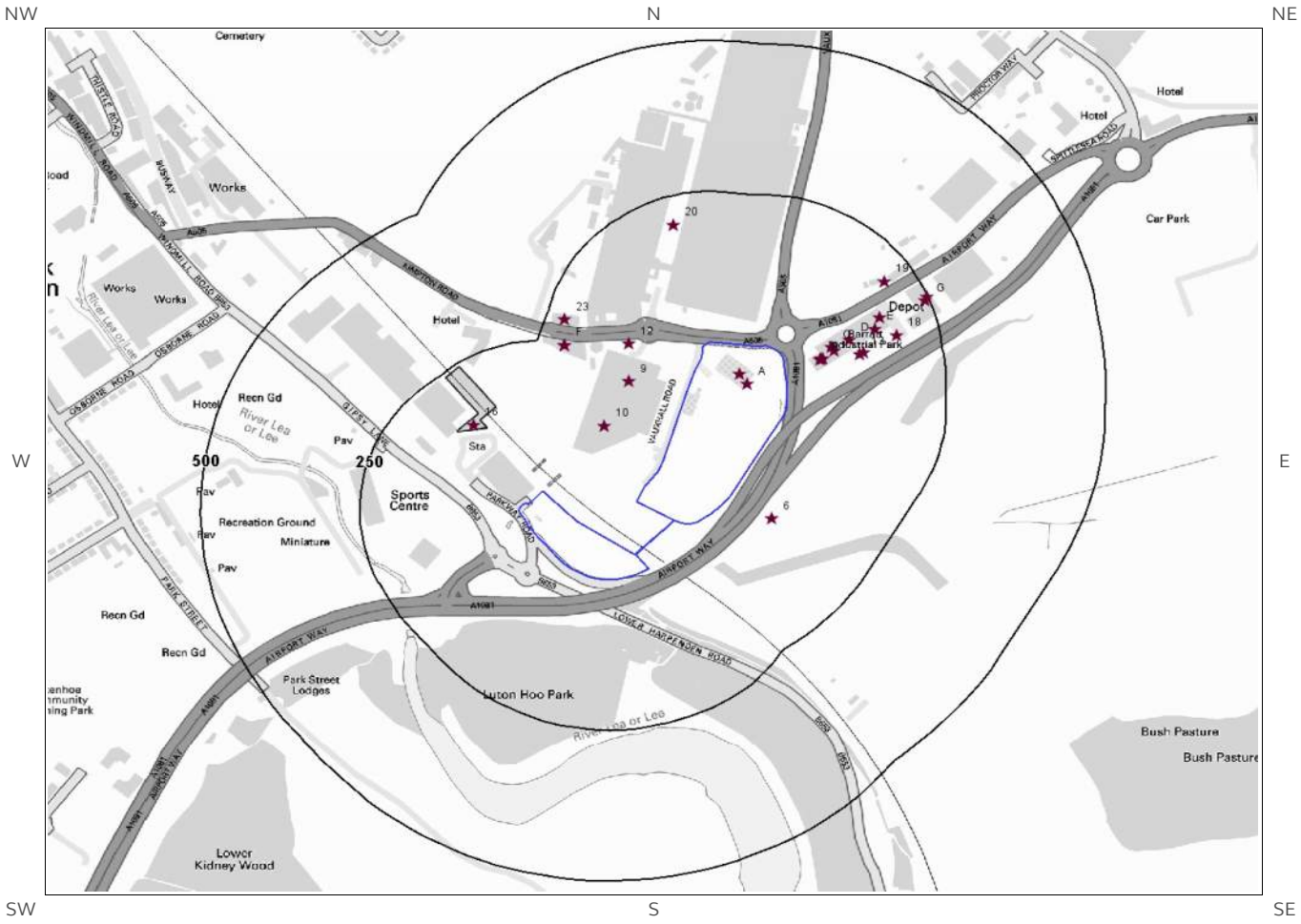

Site Outline

Search Buffers (m)
250
500

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

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Records of potentially contaminative industrial sites within 250m of the study site: 25

The following records are represented as points on the Current Land Uses map.

	! >1?	!	% 1(4	5	! 4	% 4
1A	0	On Site	Electricity Sub Station	510945 220596	LU2	Electrical Features	Infrastructure and Facilities
2A	0	On Site	Thurlow Nunn	510933 220611	Kimpton Road, Luton, LU2 0TB	New Vehicles	Motoring
3B	57	E	Alamo Rent A Car	511060 220637	Unit 1 Barratt Industrial Eastate, Luton, LU2 9NH	Vehicle Hire and Rental	Hire Services
4B	59	E	Europcar	511061 220638	Unit 1 Barratt Industrial Eastate, Luton, LU2 9NH	Vehicle Hire and Rental	Hire Services
5B	62	E	National Car Rental	511064 220638	Barratt Industrial Park, Airport Way, Luton, LU2 9NH	Vehicle Hire and Rental	Hire Services
6	74	SE	Runway Approach Light	510984 220373	LU2	Aeronautical Features	Air
7C	78	E	Powermode	511077 220657	Unit 2 Barratt Industrial Park, Airport Way, Luton, LU2 9NH	Electrical and Electronic Engineers	Engineering Services
8C	81	E	I C W Powermode	511081 220650	Unit 2 Barratt Industrial Park, Airport Way, Luton, LU2 9NH	Electrical Production and Manipulation Equipment	Industrial Products
9	93	W	Depot	510759 220600	LU2	Container and Storage	Transport, Storage and Delivery
10	106	W	Depot	510721 220527	LU1	Container and Storage	Transport, Storage and Delivery
11D	108	E	Agility Logistics	511104 220668	Unit 3 Barratt Industrial Park, Airport Way, Luton, LU2 9NH	Distribution and Haulage	Transport, Storage and Delivery
12	113	NW	Electricity Sub Station	510759 220663	LU2	Electrical Features	Infrastructure and Facilities
13	120	E	Barratt Industrial Park	511122 220646	LU2	Business Parks and Industrial Estates	Industrial Features
14D	126	E	Europcar	511127 220648	Barratt Industrial Park, Airport Way, Luton, LU2 9NH	Vehicle Hire and Rental	Hire Services
15E	153	E	Gledhill Building Products	511146 220687	Unit 7 Barratt Industrial Park, Airport Way, Luton, LU2 9NH	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
16	154	NW	Luton Airport Parkway Rail Station	510515 220528	LU1	Railway Stations, Junctions and Halts	Public Transport, Stations and Infrastructure

	! >1?	!	% 1(4	5		! 4	% 4
17E	166	NE	Bell Packaging	511153 220705	Unit 8 Barratt Industrial Park, Airport Way, Luton, LU2 9NH	Packaging	Industrial Products
18	183	E	Electricity Sub Station	511180 220677	LU2	Electrical Features	Infrastructure and Facilities
19	203	NE	Works	511161 220766	LU2	Unspecified Works Or Factories	Industrial Features
20	204	N	Works	510829 220860	LU2	Unspecified Works Or Factories	Industrial Features
21F	207	W	Print Mule Ltd	510658 220660	Suite 28 Hart House Business Centre, Kimpton Road, Luton, LU2 0LA	Printing Related Machinery	Industrial Products
22F	207	W	Hart House Business Centre	510658 220660	Kimpton Road, Luton, LU2 0LA	Business Parks and Industrial Estates	Industrial Features
23	222	W	G M Daewoo UK Ltd	510658 220703	Wyvern House 15, Kimpton Road, Luton, LU2 0FP	Vehicles	Industrial Products
24G	243	NE	Depot	511225 220734	LU2	Container and Storage	Transport, Storage and Delivery
25G	249	NE	Europa Components	511227 220741	Europa House Barratt Industrial Park, Airport Way, Luton, LU2 9NH	Distribution and Haulage	Transport, Storage and Delivery

/ * & - &"

Records of petrol or fuel sites within 500m of the study site: 0

Database searched and no data found.

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This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

/ 5 & 0 * ; 1 *(&

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

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The database has been searched on site, including a 50m buffer.

+ B %	! (	!< ;4(
MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

/ " (! & & 4

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

/2 C !< " & & 4

The database has been searched on site, including a 50m buffer.

+ B %	! (	!< ;4(
HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED)	CHALK
CKR-CHLK	CHALK ROCK MEMBER	CHALK
LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED)	CHALK
HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED)	CHALK
CKR-CHLK	CHALK ROCK MEMBER	CHALK

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

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Site Outline

Search Buffers (m)
250
500

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

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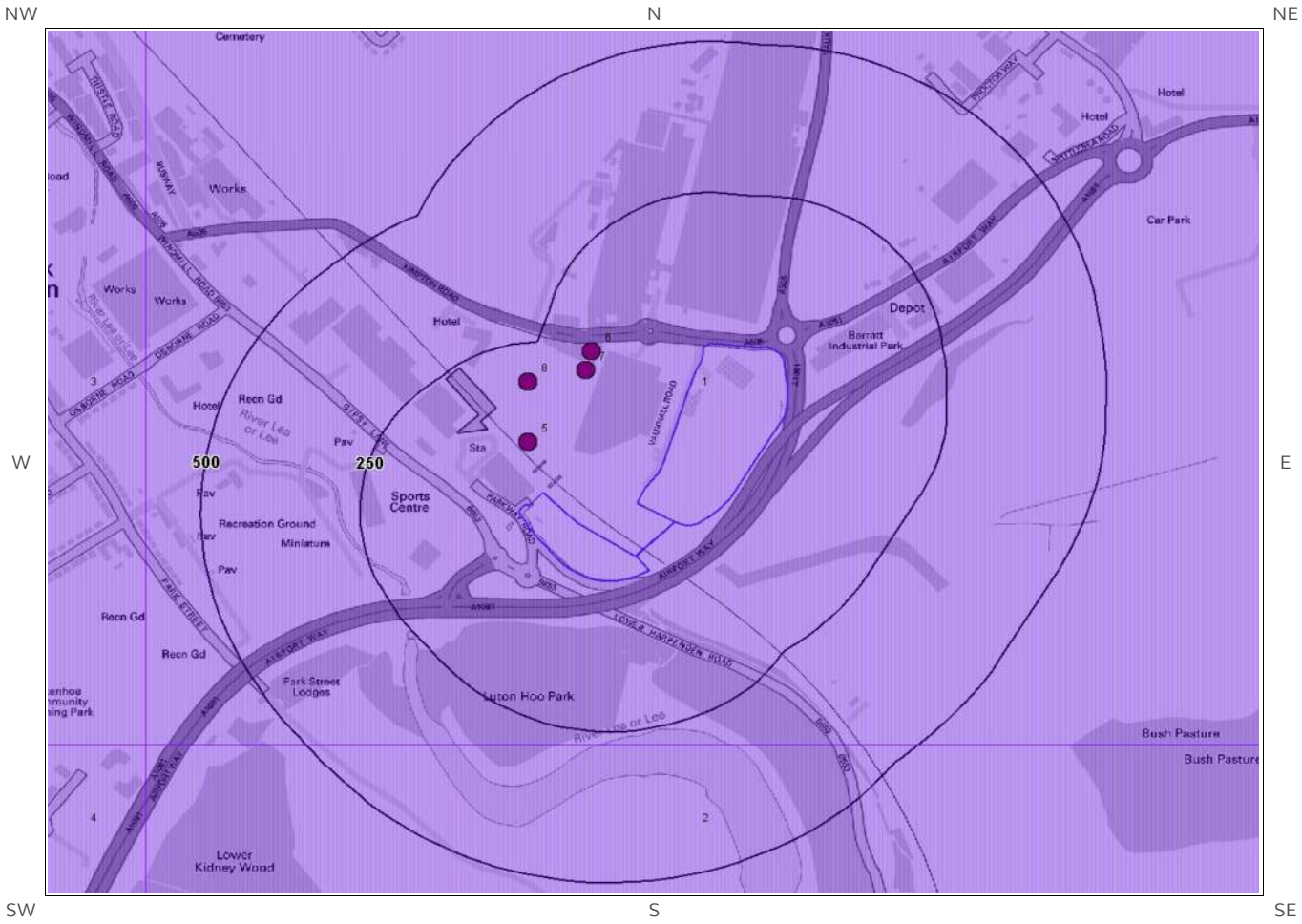
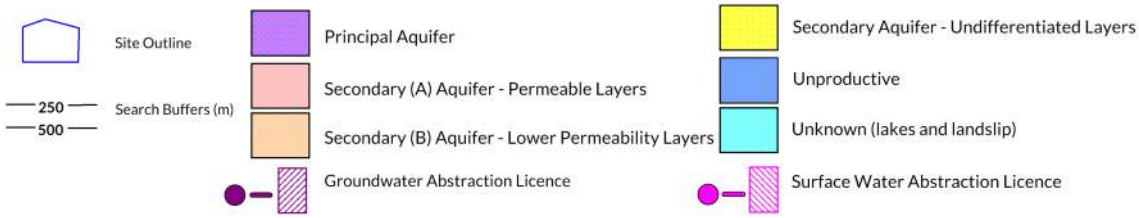

NW
N
NE
W
E
SW
S
SE
500
250
Sports Centre
Recreation Ground
Miniature
Pav
Recn Gd
Works
Hotel
Depot
Barratt Industrial Park
Car Park
Luton Hoo Park
Park Street Lodges
Lower Kidney Wood
Bush Pasture
Cemetery
Sta


Site Outline
250
500
Search Buffers (m)
Principal Aquifer
Secondary (A) Aquifer - Permeable Layers
Secondary (B) Aquifer - Lower Permeability Layers
Groundwater Abstraction Licence
Secondary Aquifer - Undifferentiated Layers
Unproductive
Unknown (lakes and landslip)
Surface Water Abstraction Licence

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Site Outline

250 Search Buffers (m)
500

Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

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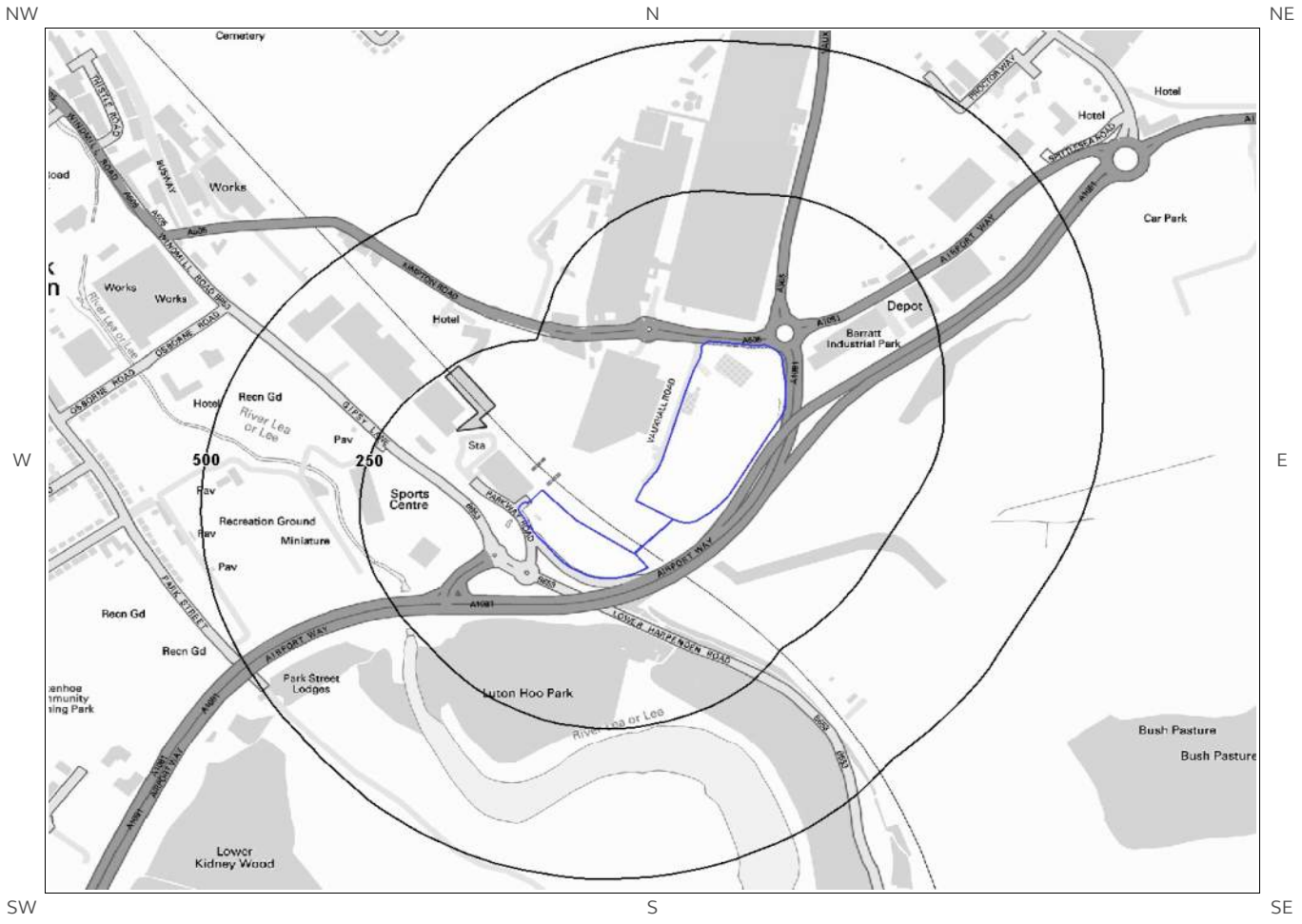

Site Outline

250 — 500 — Search Buffers (m)

Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2C - Outer Catchment within Confined Aquifer

Source Protection Zone 3C - Total Catchment within Confined Aquifer

Potable Water Abstraction Licence

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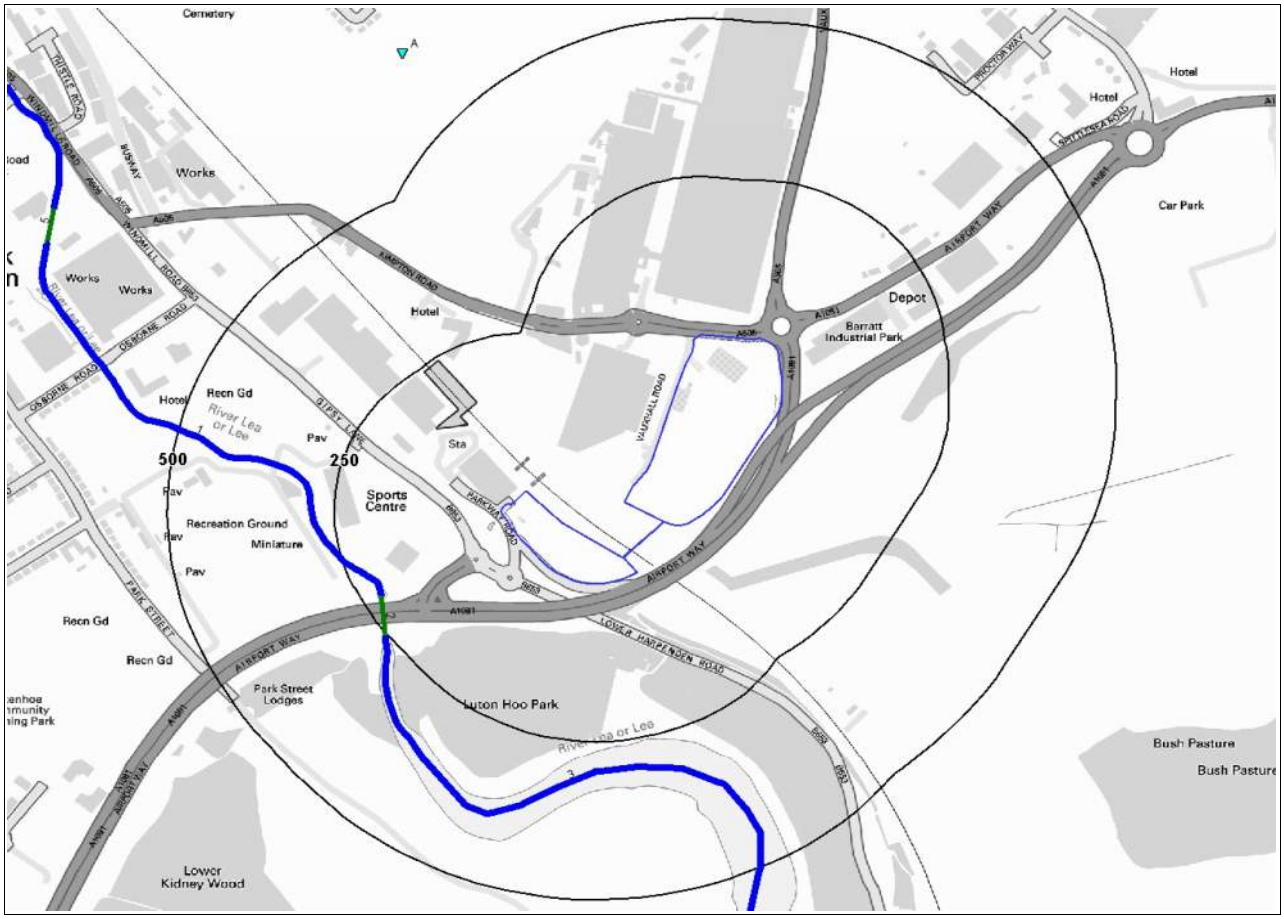
5 , < F & 4

NW N NE

W E

SW S SE



Site Outline

250 Search Buffers (m)
500

Primary River
Secondary River
Tertiary River
Lake/Reservoir
Underground River (inferred)
General Quality Assessment: Biology
General Quality Assessment: Chemistry

Canal
Canal Tunnel
Culvert
Multiple Channel Culvert
Underground River (Potential Sewer)
Underground River (local knowledge)

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Are there records of strata classification within the superficial geology at or in proximity to the property?
Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

	! >1?	!		! (
10	143	SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
1	153	SW	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	231	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
3	271	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
6	357	SE	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	382	SE	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
4	455	NW	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

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Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

	! >1?	!		! (
1	0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

	! >1?	!		! (
2	271	S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

$/2 , = ! +! !

Are there any Groundwater Abstraction Licences within 2000m of the study site? Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

	! >1?	!	5		&
5	86	N	510600 220500	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'a' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
6	165	W	510700 220650	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole B Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: NPS/WR/021985 Original Start Date: 20/3/1966 Expiry Date: - Issue No: 103 Version Start Date: 3/2/2016 Version End Date:
7	165	W	510690 220620	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole A Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: NPS/WR/021985 Original Start Date: 20/3/1966 Expiry Date: - Issue No: 103 Version Start Date: 3/2/2016 Version End Date:
8	184	N	510600 220600	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'b' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
Not shown	536	N	510900 221200	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'd' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:

	! >1?	!	5		&
Not shown	543	N	510800 221200	Status: Historical Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton, Borehole 'c' Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724.4 Original Application No: - Original Start Date: 20/3/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/5/2005 Version End Date:
Not shown	556	N	510870 221220	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole C Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: NPS/WR/021985 Original Start Date: 20/3/1966 Expiry Date: - Issue No: 103 Version Start Date: 3/2/2016 Version End Date:
Not shown	586	N	510870 221250	Status: Active Licence No: 29/38/01/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Kimpton Road, Luton - Borehole D Data Type: Point Name: IBC VEHICLES LIMITED	Annual Volume (m^3): 2636738 Max Daily Volume (m^3): 11724 Original Application No: NPS/WR/021985 Original Start Date: 20/3/1966 Expiry Date: - Issue No: 103 Version Start Date: 3/2/2016 Version End Date:
Not shown	1005	NW	509670 220800	Status: Historical Licence No: 29/38/01/0106 Details: Pollution Remediation Direct Source: Thames Groundwater Point: 120 Park Street, Luton, Bedfordshire - 32 Boreholes Data Type: Point Name: URS CORPORATION LIMITED	Annual Volume (m^3): 35040 Max Daily Volume (m^3): 96 Original Application No: GEN/1/22 Original Start Date: 10/10/2007 Expiry Date: 31/3/2012 Issue No: 1 Version Start Date: 10/10/2007 Version End Date:
Not shown	1231	NW	509450 220860	Status: Active Licence No: 29/38/01/0067 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Albert Road Data Type: Point Name: Affinity Water Limited	Annual Volume (m^3): 1663870 Max Daily Volume (m^3): 5228 Original Application No: NPS/WR/011805 Original Start Date: 20/10/1969 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date:
Not shown	1562	NW	509600 221600	Status: Active Licence No: 29/38/01/0008 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Crescent Road Pumping Station Data Type: Point Name: Affinity Water Limited	Annual Volume (m^3): 10398011 Max Daily Volume (m^3): 29300 Original Application No: NPS/WR/011805 Original Start Date: 20/1/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date:
Not shown	1591	NW	509420 221470	Status: Historical Licence No: 29/38/01/0098 Details: Pollution Remediation Direct Source: Thames Groundwater Point: Point 'a' At Guildford Street Service Station, Luton. Data Type: Point Name: BP OIL UK LIMITED	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: WRA/N/1263 Original Start Date: 9/4/2002 Expiry Date: 30/4/2005 Issue No: 1 Version Start Date: 9/4/2002 Version End Date:
Not shown	1591	NW	509420 221470	Status: Historical Licence No: 29/38/01/0098 Details: Pollution Remediation Direct Source: Thames Groundwater Point: Guildford Street Service Station, Luton-Point A Data Type: Point Name: BP OIL UK LIMITED	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: WRA/N/1263 Original Start Date: 9/4/2002 Expiry Date: 30/4/2005 Issue No: 1 Version Start Date: 9/4/2002 Version End Date:

! >1?	!	5		&
Not shown	1591	NW	509420 221470	Status: Historical Licence No: 29/38/01/0100 Details: Pollution Remediation Direct Source: Thames Groundwater Point: Guildford Street Service Station, Luton-Point A Data Type: Point Name: BP OIL UK LIMITED	Annual Volume (m^3): 366000 Max Daily Volume (m^3): 1008 Original Application No: - Original Start Date: 22/10/2003 Expiry Date: 31/12/2013 Issue No: 1 Version Start Date: 22/10/2003 Version End Date:
Not shown	1831	SE	511500 218600	Status: Active Licence No: 29/38/01/0039 Details: General Farming & Domestic Direct Source: Thames Groundwater Point: The Gables Borehole A Data Type: Point Name: LUTON HOO PARK LIMITED	Annual Volume (m^3): 49779 Max Daily Volume (m^3): 181.8 Original Application No: - Original Start Date: 20/4/1966 Expiry Date: - Issue No: 102 Version Start Date: 1/4/1999 Version End Date:
Not shown	1831	SE	511500 218600	Status: Active Licence No: 29/38/01/0039 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Thames Groundwater Point: The Gables Borehole A Data Type: Point Name: LUTON HOO PARK LIMITED	Annual Volume (m^3): 49779 Max Daily Volume (m^3): 181.8 Original Application No: - Original Start Date: 20/4/1966 Expiry Date: - Issue No: 102 Version Start Date: 1/4/1999 Version End Date:
Not shown	1865	NW	509670 222080	Status: Historical Licence No: 28/39/01/0106 Details: Pollution Remediation Direct Source: Thames Groundwater Point: 120 Park Street, Luton Data Type: Point Name: URS CORPORATION LIMITED	Annual Volume (m^3): 35040 Max Daily Volume (m^3): 96 Original Application No: GEN/1/22 Original Start Date: 10/10/2007 Expiry Date: 31/3/2009 Issue No: 1 Version Start Date: 10/10/2007 Version End Date:

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Are there any Surface Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

$/ * =& 3 = ! +! !

Are there any Potable Water Abstraction Licences within 2000m of the study site? Yes

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

! >1?	!	5		&
Not shown	1231	NW	509450 220860	Status: Active Licence No: 29/38/01/0067 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Albert Road Data Type: Point Name: Affinity Water Limited	Annual Volume (m^3): 1663870 Max Daily Volume (m^3): 5228 Original Application No: NPS/WR/011805 Original Start Date: 20/10/1969 Expiry Date: - Issue No: 102 Version Start Date: Version End Date:

	! >1?	!	5		&
Not shown	1562	NW	509600 221600	Status: Active Licence No: 29/38/01/0008 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Crescent Road Pumping Station Data Type: Point Name: Affinity Water Limited	Annual Volume (m^3): 10398011 Max Daily Volume (m^3): 29300 Original Application No: NPS/WR/011805 Original Start Date: 20/1/1966 Expiry Date: - Issue No: 102 Version Start Date: Version End Date:
Not shown	1831	SE	511500 218600	Status: Active Licence No: 29/38/01/0039 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Thames Groundwater Point: The Gables Borehole A Data Type: Point Name: LUTON HOO PARK LIMITED	Annual Volume (m^3): 49779 Max Daily Volume (m^3): 181.8 Original Application No: - Original Start Date: 20/4/1966 Expiry Date: - Issue No: 102 Version Start Date: Version End Date:

$/$ " ! * ! E

Are there any Source Protection Zones within 500m of the study site? Yes

The following Source Protection Zones records are represented on the SPZ and Potable Water Abstraction Map (6c):

	! >1?	!	E	! (
1	146	N	3	Total catchment

$/ " ! * ! E , % D

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site? No

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

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Is there any Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site? Yes

! >1?	!	%& !	" & @ & =& 4 % 4	! (
0	On Site	Major Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.
7	S	Major Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.
271	S	Major Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.

$/ F & 4

Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site? Yes

6.9.1 Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (6e):

	! >1?	!	5	F & 4	C & !& F & 4				
					$				
8A	628	NW	510440 221110	River Name: Lee (thames) Reach: Luton Hoo Lakes - Luton Stw End/Start of Stretch: Start of Stretch NGR	C	C	C	B	B
9A	628	NW	510440 221110	River Name: Lee (thames) Reach: Leagrave - Luton Hoo Lakes End/Start of Stretch: End of Stretch NGR	D	D	D	C	C

6.9.2 Chemical Quality:

Database searched and no data found.

$/ & 5 , <

Are there any Detailed River Network entries within 500m of the study site? Yes

The following Detailed River Network records are represented on the Hydrology Map (6e):

	! >1?	!	&	
1	216	SW	River Name: River Lea or Lee Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
2	222	SW	River Name: River Lea or Lee Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
3	253	SW	River Name: River Lea or Lee Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined

$/ " ! 3 -

Are there any surface water features within 250m of the study site? Yes

The following surface water records are not represented on mapping:

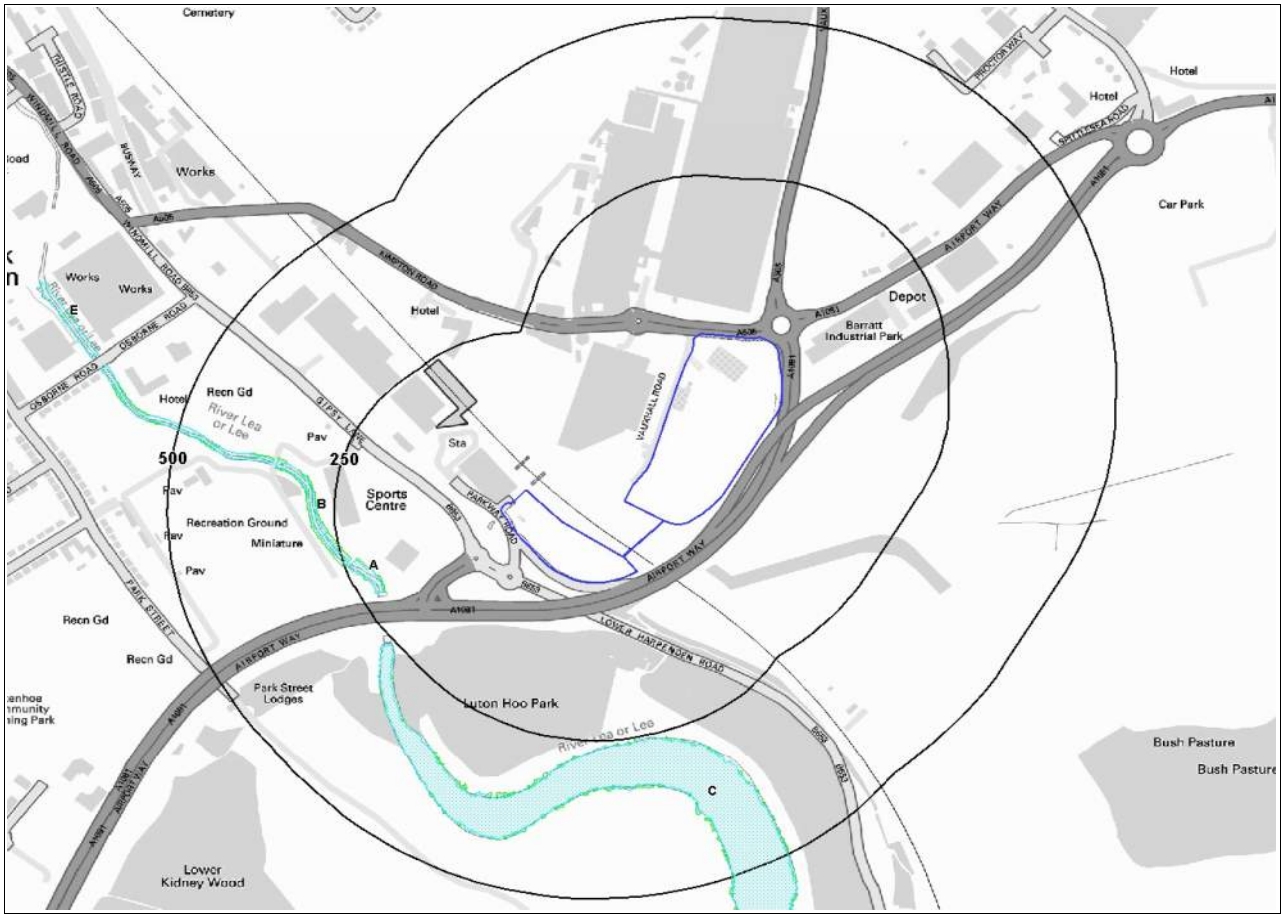
! >1?	!
0	On Site
212	SW
248	SW

/ 1 !4A5 &
! 3 & -& 7 (
*& > 1 ?

NW N NE

W E

SW S SE



Site Outline

100
250
Search Buffers (m)

Zone 2 Floodplain

Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

Area Benefiting from Flood Defences

=/ 1 !4A5 &

! 3 & < -&

1 " > - "?

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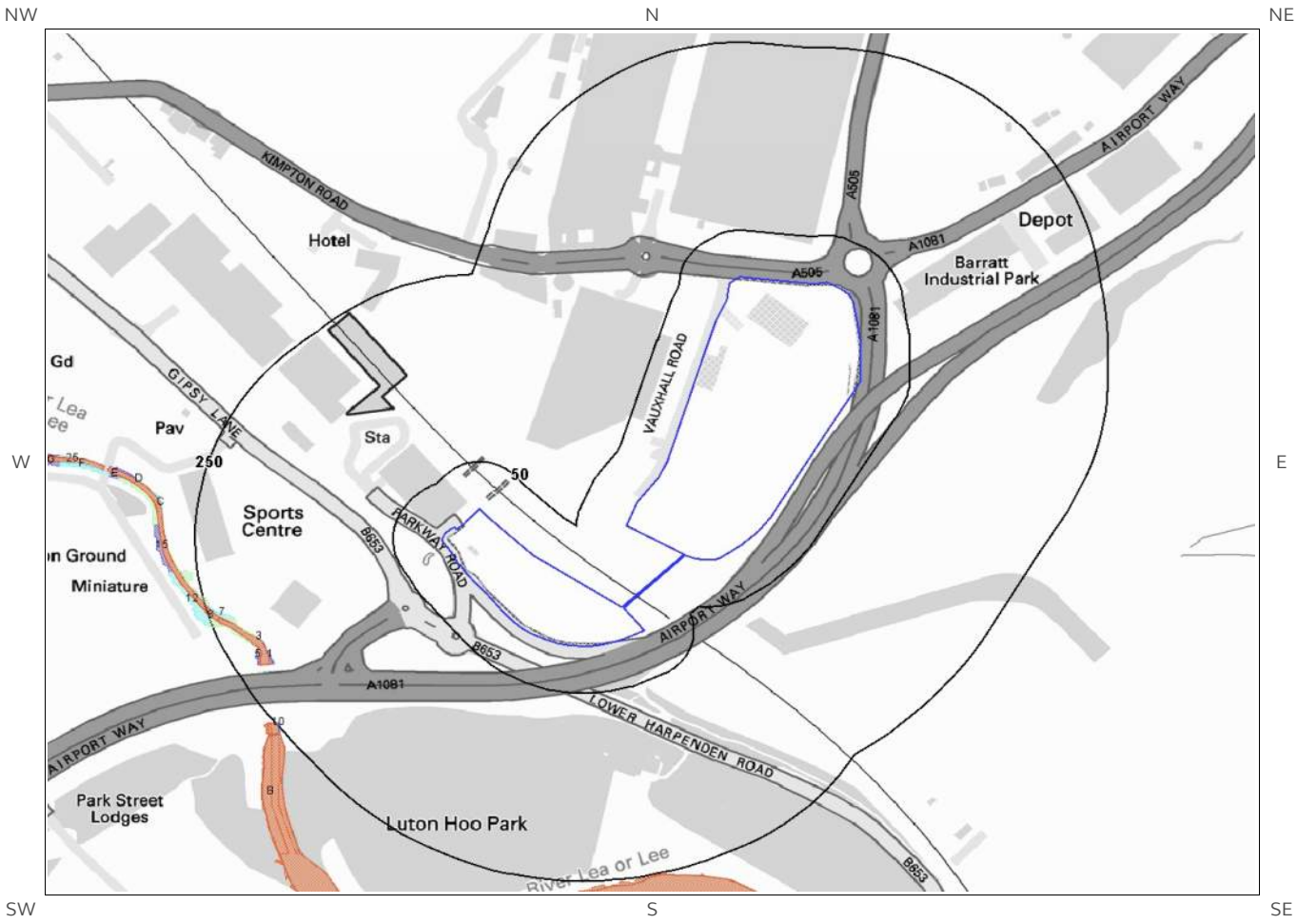

Site Outline

100 250 Search Buffers (m)

RoFRaS Rating

Very Low

Low

Medium

High

-&

/ % & E -&

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 2 floodplain? Yes

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

	! >1?	!	.(	;4(
1A	209	SW	24-Nov-2017	Zone 2 - (Fluvial /Tidal Models)
2B	237	W	24-Nov-2017	Zone 2 - (Fluvial /Tidal Models)

/ % & E 2 -&

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 3 floodplain? Yes

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

	! >1?	!	.(	;4(
1A	210	SW	24-Nov-2017	Zone 3 - (Fluvial Models)
2B	240	W	24-Nov-2017	Zone 3 - (Fluvial Models)

/2 < -& 1 " > - "? -&

What is the highest risk of flooding onsite? Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

/ -& !

Are there any Flood Defences within 250m of the study site? No

Database searched and no data found.

/ = 1 -& !

Are there any areas benefiting from Flood Defences within 250m of the study site? No

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Are there any areas used for Flood Storage within 250m of the study site? No

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7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding? Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

/ , -& % !

What is the British Geological Survey confidence rating in this result? High

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

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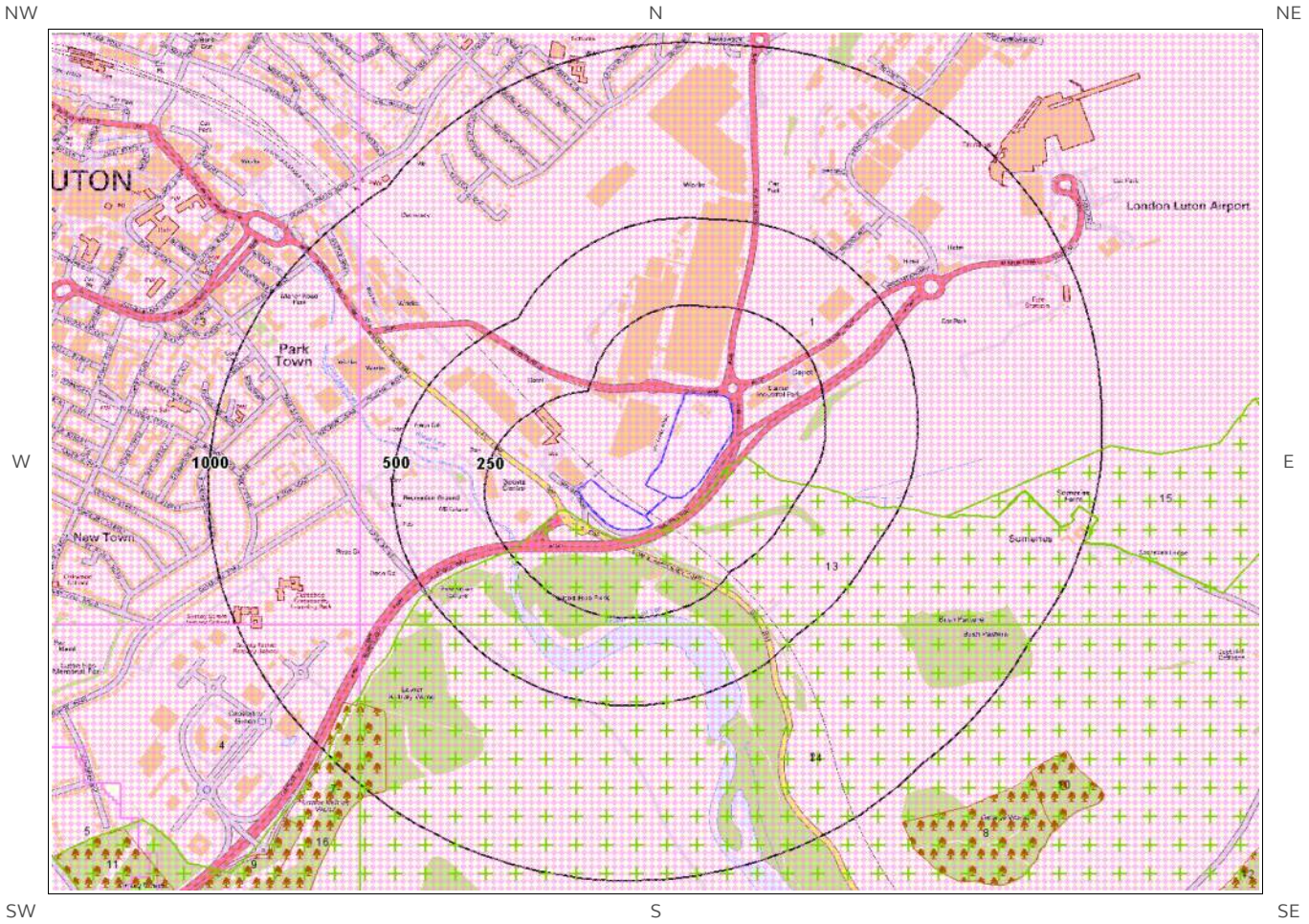
" " 7 (



Site Outline

100 250 Search Buffers (m)

AONB

National Park

SSSI

Special Protection Areas

Nitrate Vulnerable Zones

Green Belt

Environmentally Sensitive Areas

Special Areas of Conservation

World Heritage Sites

Nitrate Sensitive Areas

Ancient Woodland

National Nature Reserve

Local Nature Reserves

Ramsar Sites

/ 1 &&4

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Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? Yes

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Database searched and no data found.

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0

Database searched and no data found.

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0

Database searched and no data found.

6

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

	! >1?	!	! 3 & 51	" !
7	803	SW	UNKNOWN	Ancient and Semi-Natural Woodland
8	1086	SE	UNKNOWN	Ancient and Semi-Natural Woodland
9	1196	SW	UNKNOWN	Ancient Replanted Woodland
10	1218	SE	UNKNOWN	Ancient Replanted Woodland
11	1556	SW	UNKNOWN	Ancient Replanted Woodland
12	1825	SE	UNKNOWN	Ancient Replanted Woodland

/ ! + ! & 5 >+5 ? , 1 4

0

Database searched and no data found.

/ ! 3 & 0 " , 1 4

0

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/ ! 1 &&4 " , 1 4

0

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0

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0

Database searched and no data found.

/ ! 5 " , 1 4

0

Database searched and no data found.

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The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

	! >1?	!	5@E 5 1	" !
1	0	On Site	Existing	DEFRA
2	271	S	Existing	DEFRA
3	587	W	Existing	DEFRA
4	701	SW	Existing	DEFRA
5	1512	SW	Existing	DEFRA
Not shown	1872	S	Existing	DEFRA

/ ! C & & , 1 4

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Green Belt data contains Ordnance Survey data © Crown copyright and database right [2015].

	!	!	C & 5 1	+ ! & 4 5 1
13	26	S	London Area Greenbelt	Central Bedfordshire
14	271	S	London Area Greenbelt	Central Bedfordshire
15	625	SE	London Area Greenbelt	Luton (B)
16	822	SW	London Area Greenbelt	Central Bedfordshire
Not shown	1798	E	London Area Greenbelt	Luton (B)

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BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a Groundsure Geo Insight, available from our website. The following information has been found:

9.1.1 Shrink Swell

What is the maximum Shrink-Swell*[*] hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

0 6
Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.

9.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

0 6
Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

9.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

0 6
Significant soluble rocks are present. Problems unlikely except with considerable surface or subsurface water flow. No special actions required to avoid problems due to soluble rocks. No special ground investigation required or increased construction costs are likely. An increase in financial risk due to potential problems with soluble rocks is unlikely.

* This indicates an automatically generated 50m buffer and site.

9.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

0 6
Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

9.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

0 6
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

9.1.6 Running Sand

What is the maximum Running Sand*[*] hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

0 6
Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

* This indicates an automatically generated 50m buffer and site.

/

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing
ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

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/ % & 7

Are there any coal mining areas within 75m of the study site? No

Database searched and no data found.

/ 5 #% & 7

Are there any Non-Coal Mining areas within 50m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

!	!	5 1	% 11 4	1 & < & >1?
0.0	On Site	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

Past underground mine workings are uncommon, localised and of limited area. The rock types present in this area are such that minor mineral veins may be present within them on which it is possible that there have been attempts to work these by underground methods and/or it is possible that small scale underground extraction of other materials may have occurred. All such occurrences are likely to be restricted in size and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

/2 C !

Are there any brine affected areas within 75m of the study site? No
Guidance: No Guidance Required.

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Telephone: 08444 159 000
info@groundsure.com

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Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:
Web:,,,/= / !/ <
BGS Geological Hazards Reports and general geological enquiries:
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National Customer Contact Centre, PO Box 544
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133-155 Waterloo Road, London, SE1 8UG

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Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
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Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

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Authority: Luton Borough Council
Phone: 01582 546 000
Web: http://www.luton.gov.uk/
Address: Town Hall, George Street, Luton, Bedfordshire, LU1 2BQ

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Virginia Villas, High Street, Hartley Witney,
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Tel: 01252 845444

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Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

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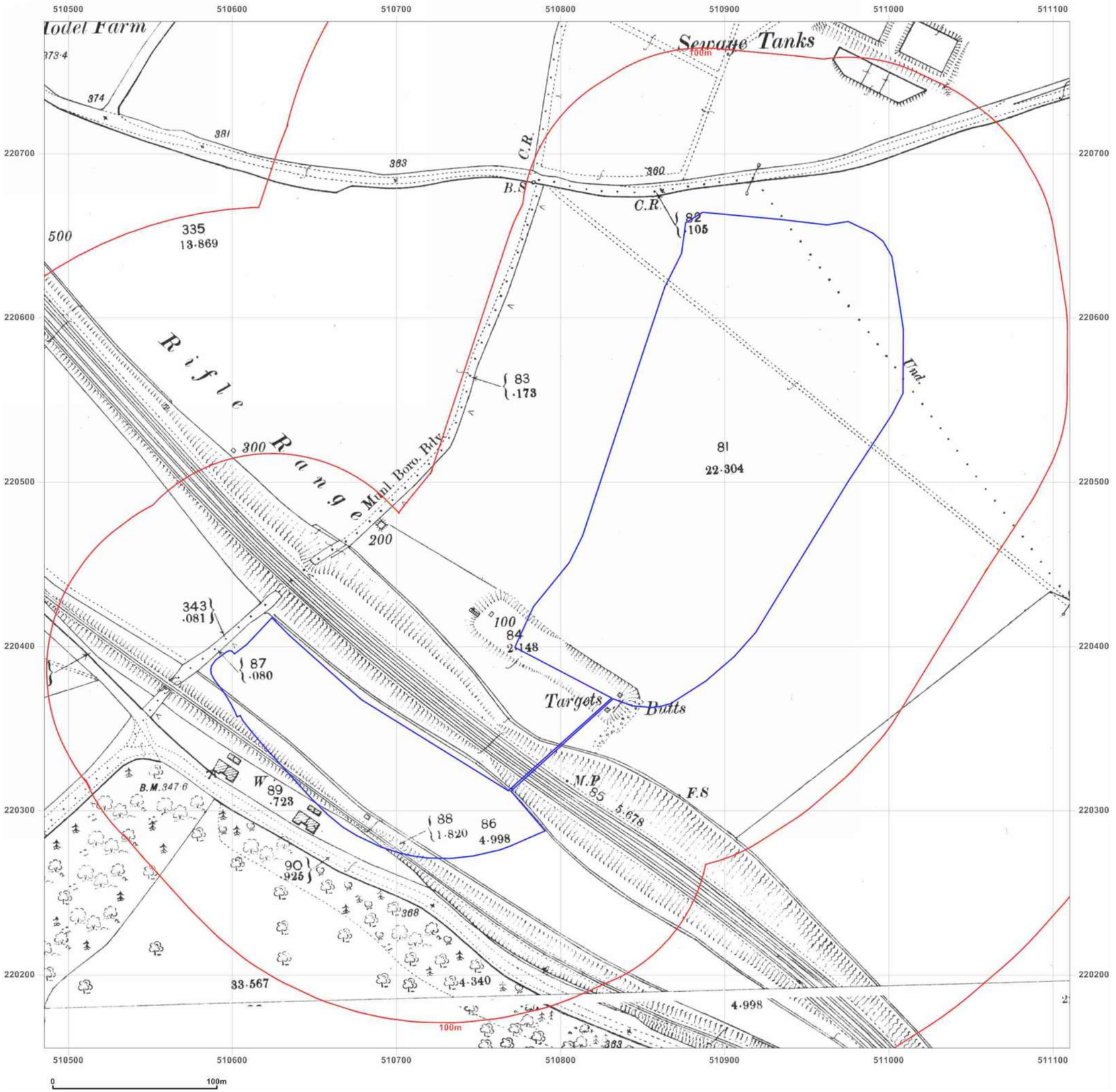

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Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

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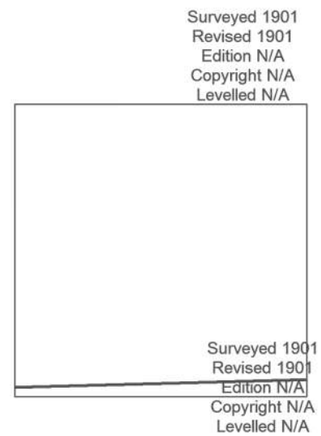

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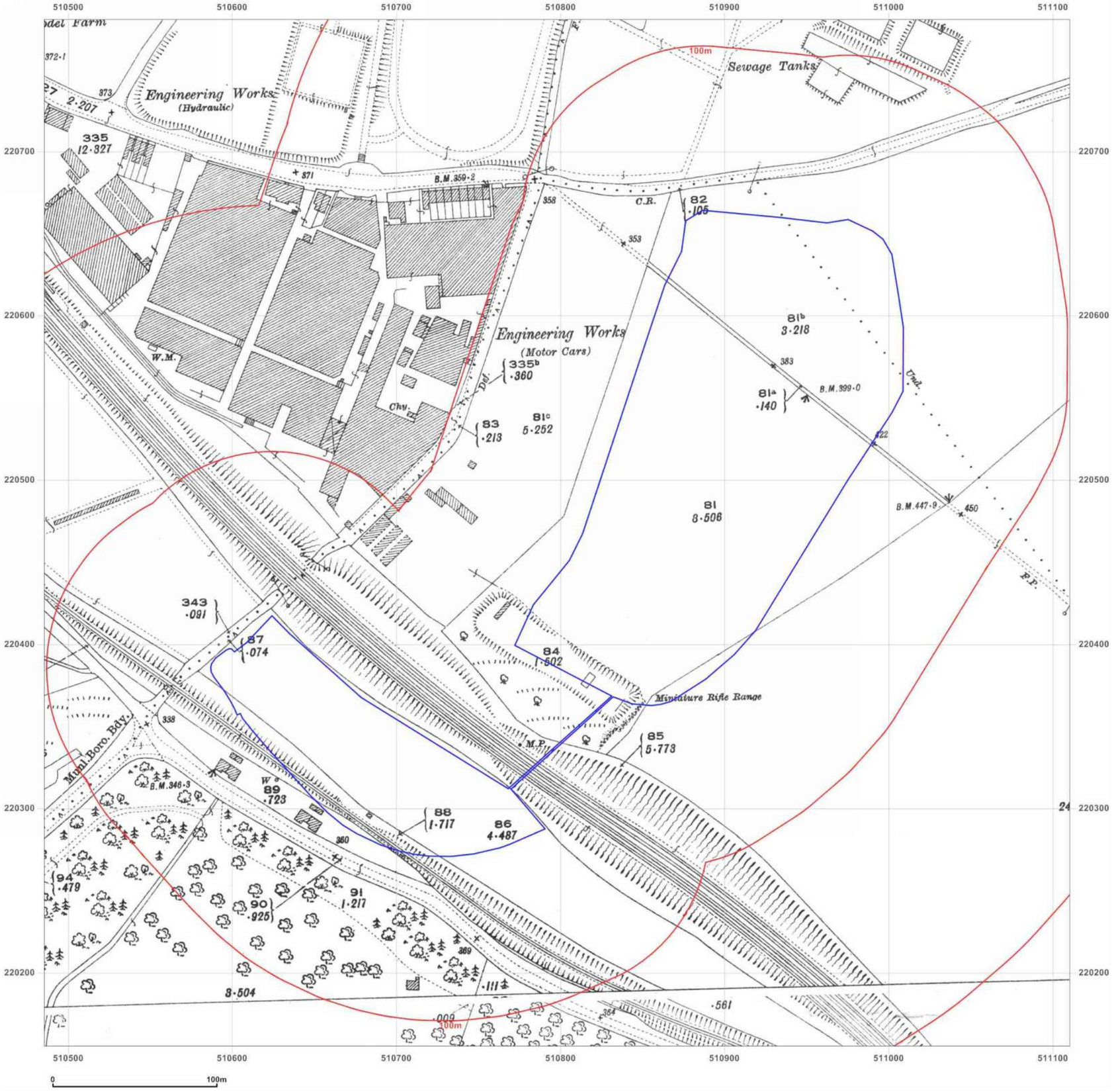

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Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

Map date: **1924**

Scale: 1:2,500

Printed at: 1:2,500

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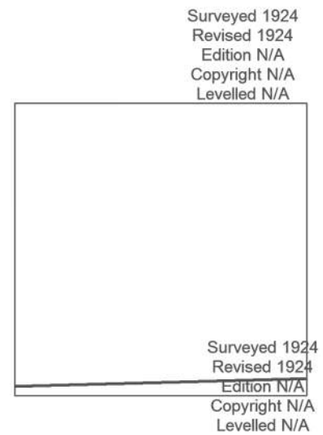

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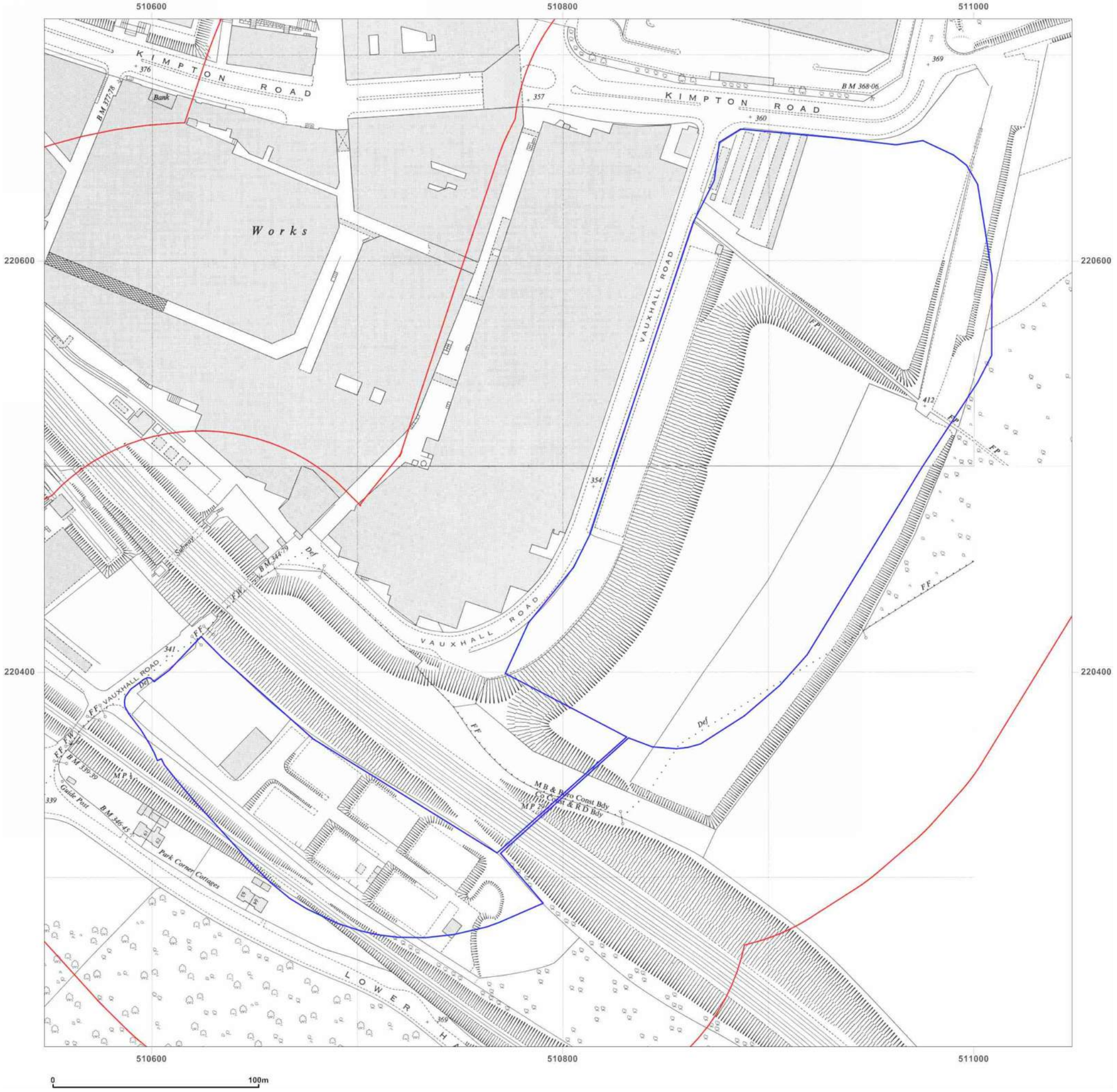

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Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: National Grid

Map date: **1962**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1958	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A

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Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: National Grid

Map date: **1973-1974**

Scale: 1:1,250

Printed at: 1:2,000

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Revised 1973
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

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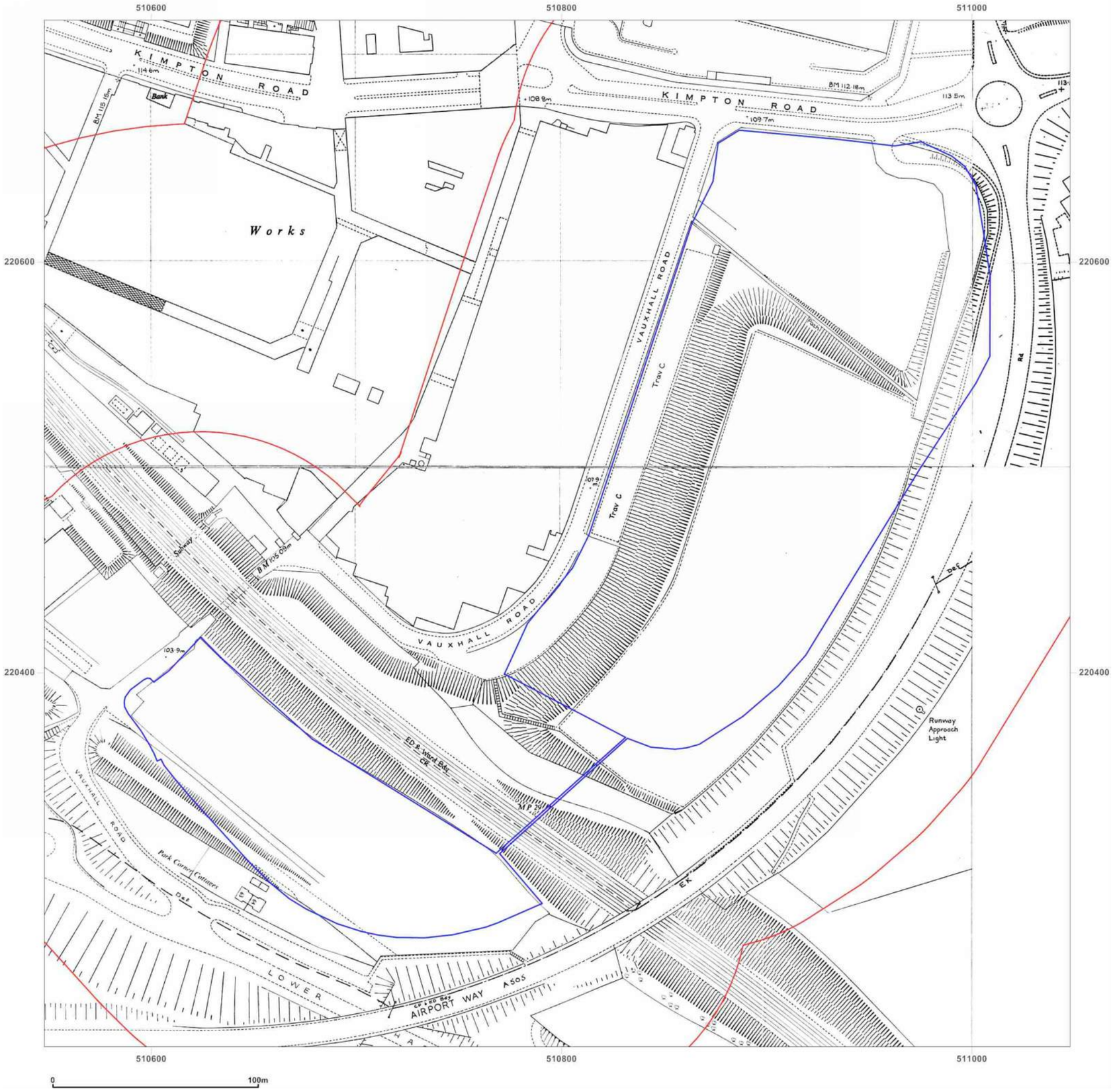
Production date: 05 January 2018

To view map legend click here *Legend*



Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: National Grid

Map date: **1984**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982

Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982

Surveyed 1982
Revised 1984
Edition N/A
Copyright 1984
Levelled 1982

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Production date: 05 January 2018

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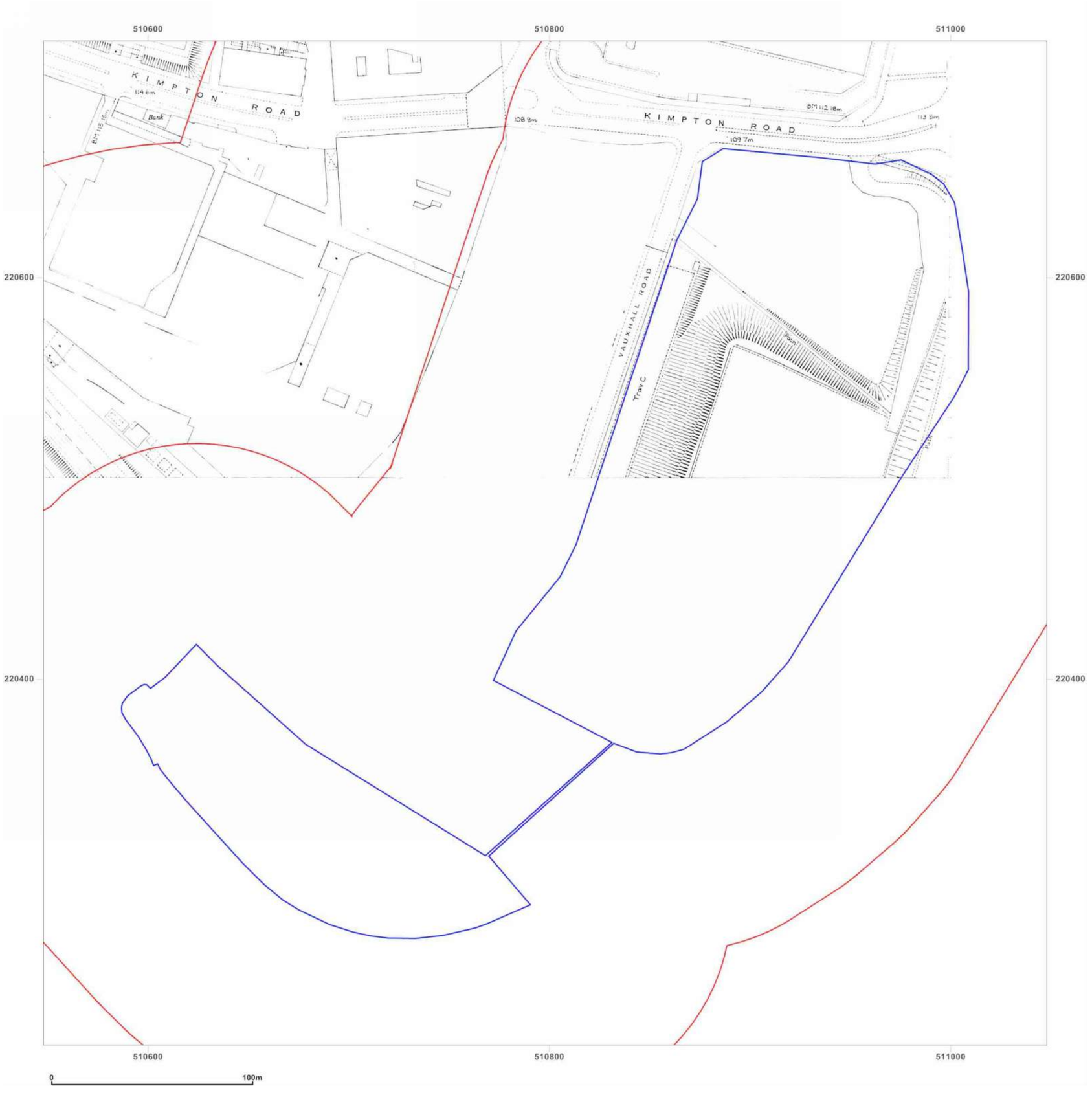


Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: National Grid

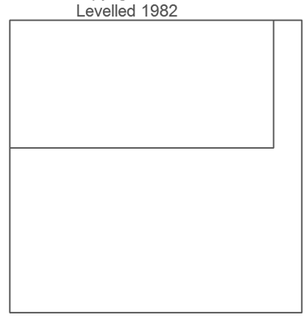
Map date: **1986**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1982
Revised 1986
Edition N/A
Copyright 1986
Levelled 1982



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Production date: 05 January 2018

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Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: National Grid

Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Production date: 05 January 2018

To view map legend click here *Legend*

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

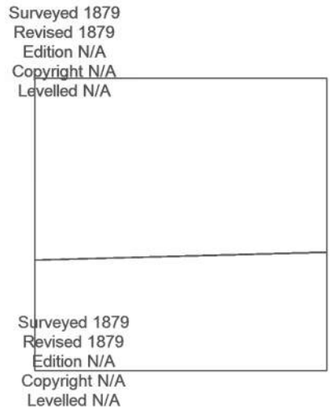
Map Name: County Series

Map date: **1879**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



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Production date: 05 January 2018

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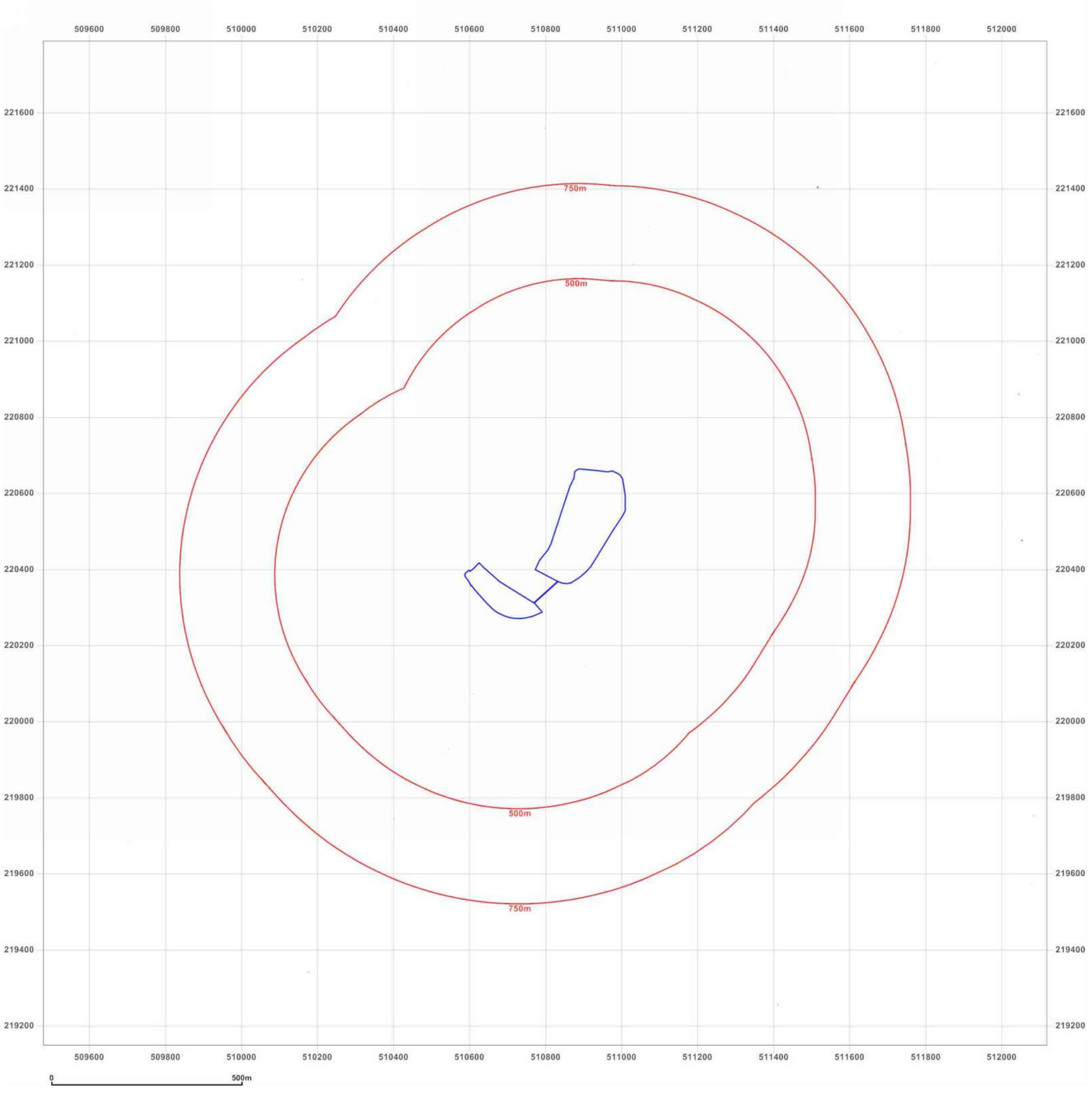

Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

Map date: **1884**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1881
Revised N/A
Edition 1884
Copyright N/A
Levelled N/A

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Production date: 05 January 2018

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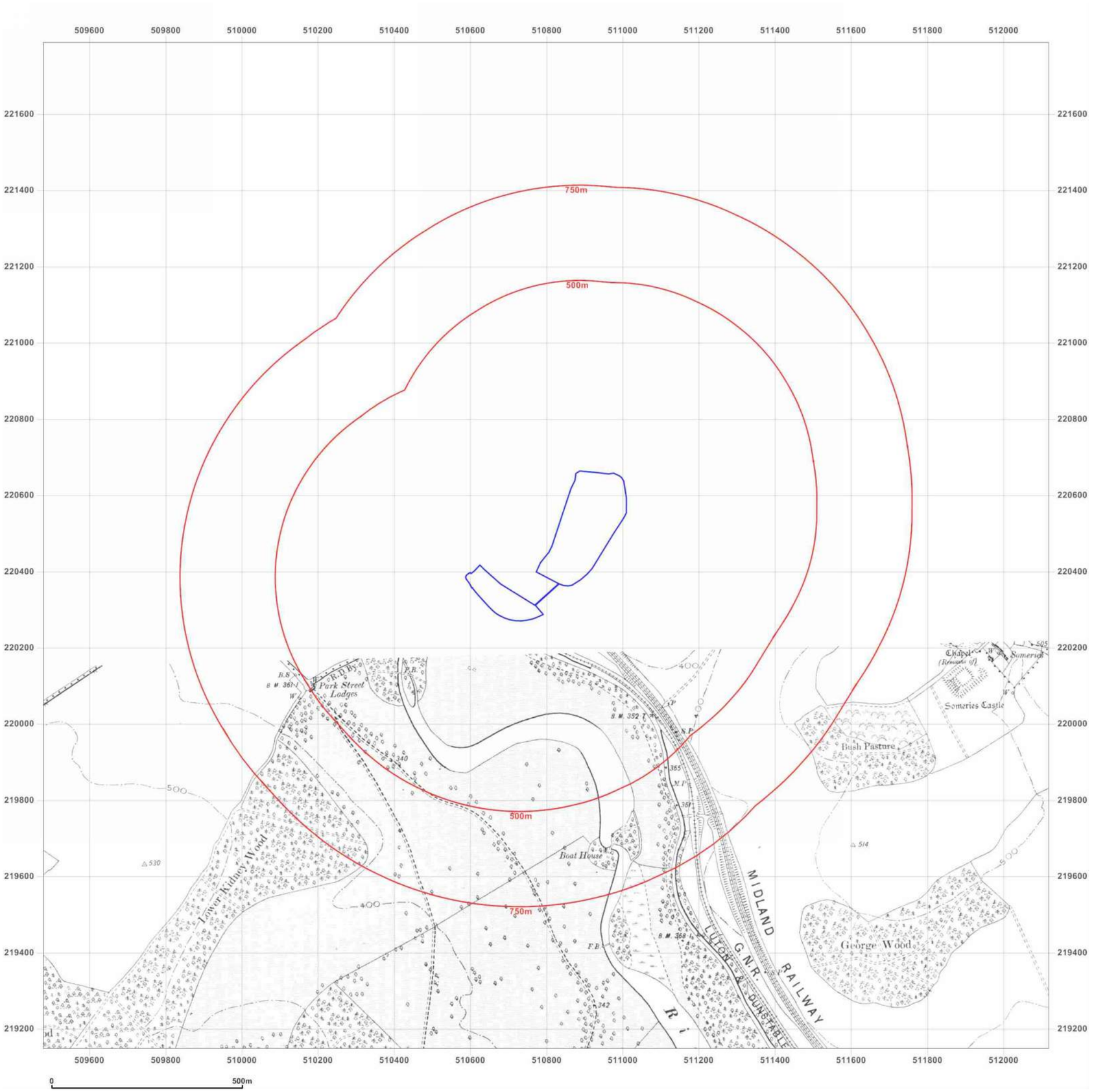


Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

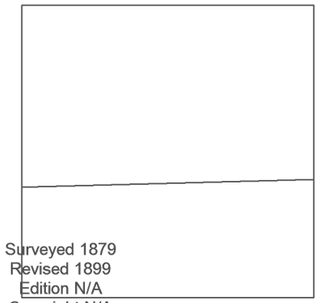
Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



Surveyed 1879
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 05 January 2018

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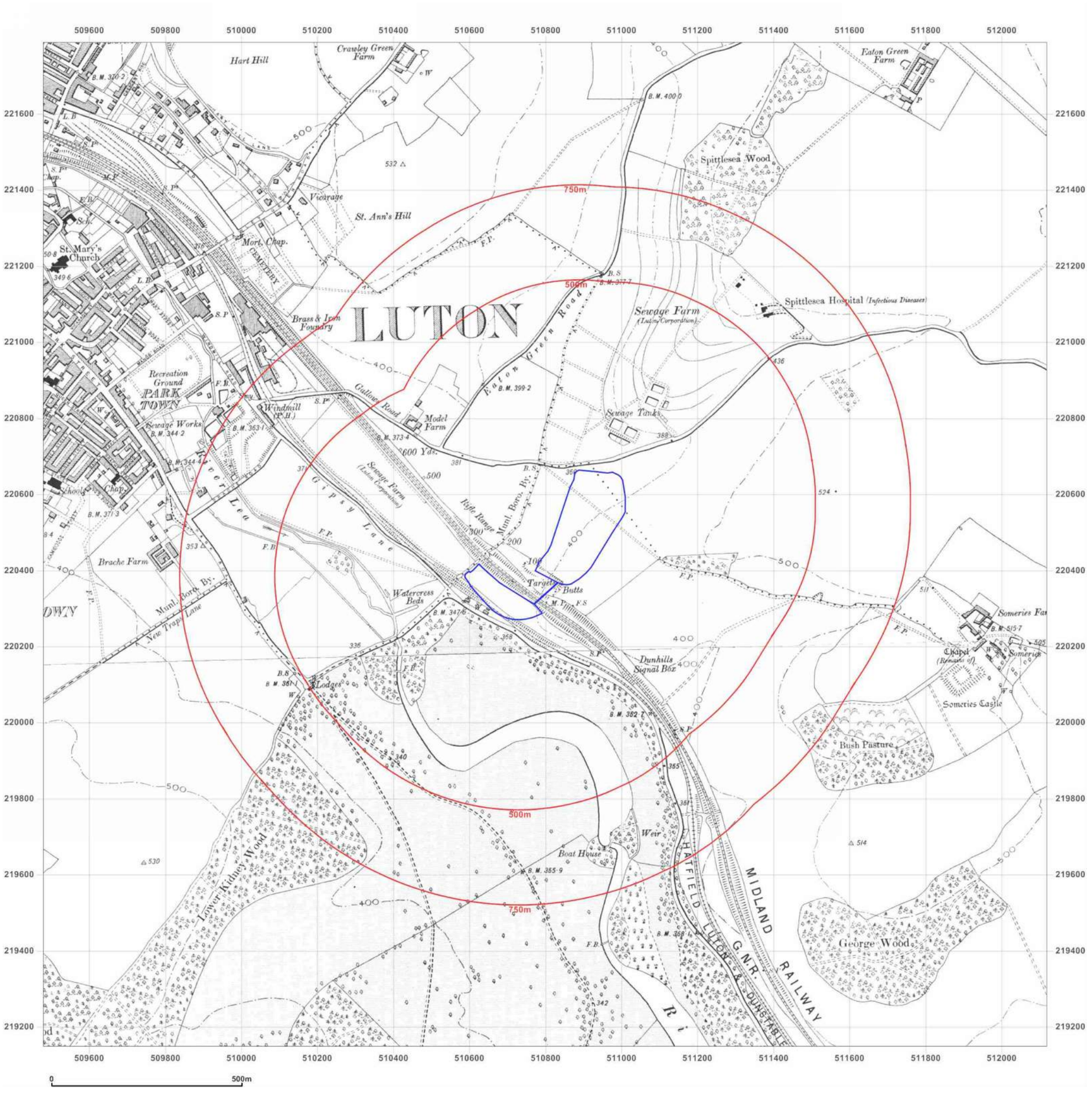


Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

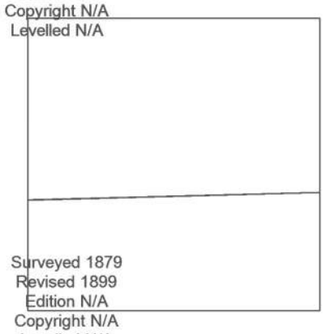
Map date: **1899-1900**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1880
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1879
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 05 January 2018

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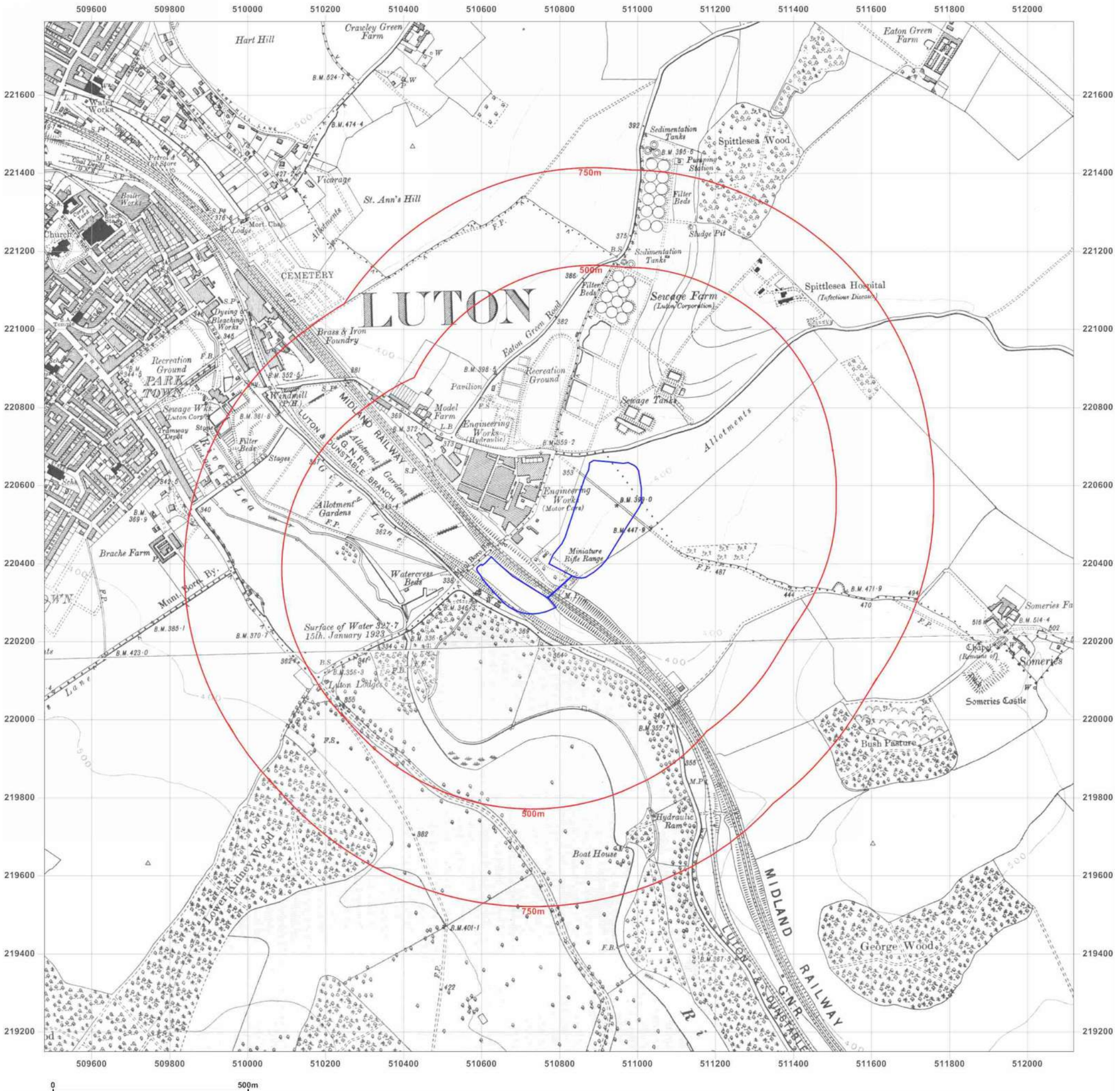

Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

Map date: **1922**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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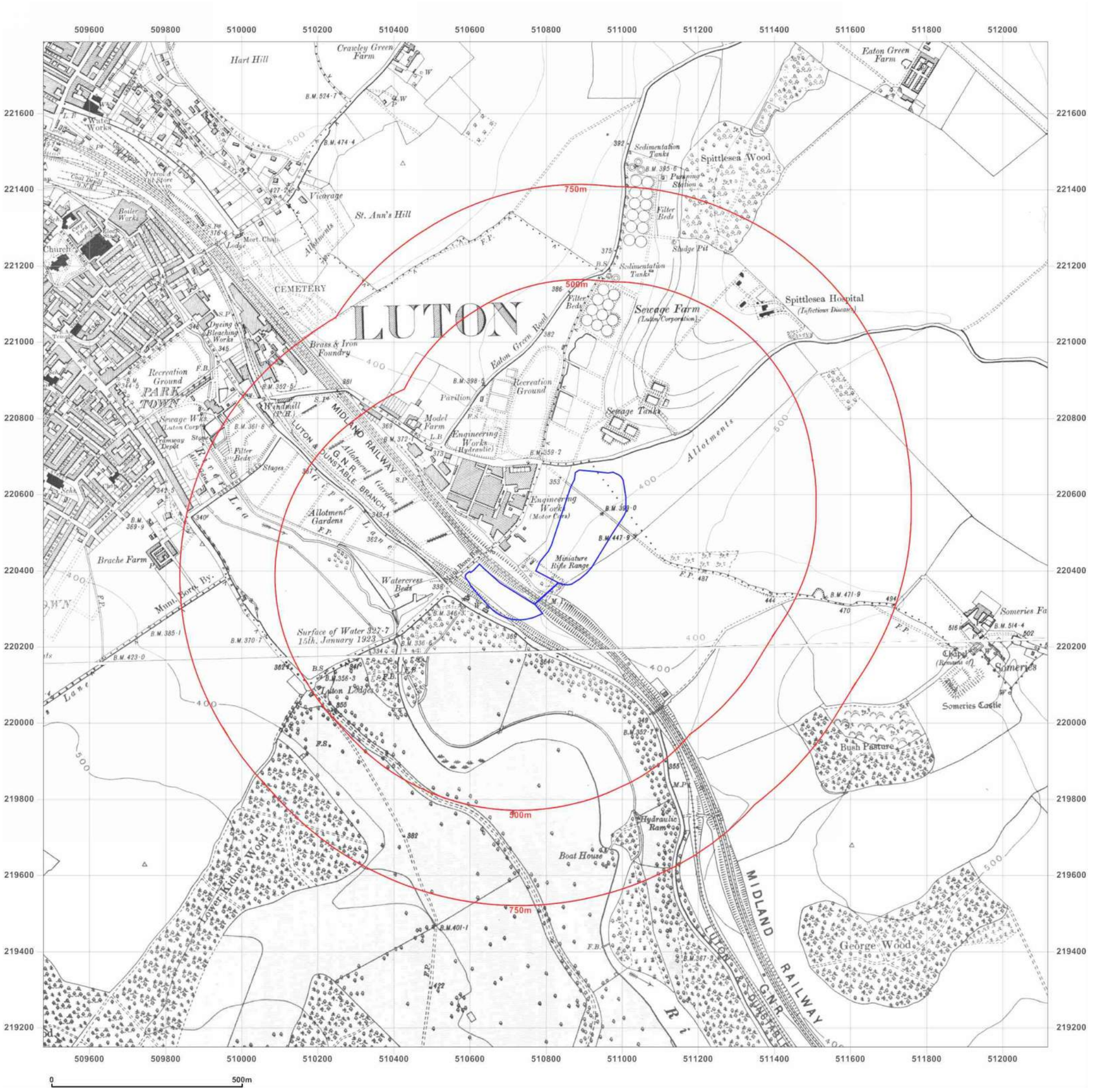

Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

Map date: **1922**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 05 January 2018

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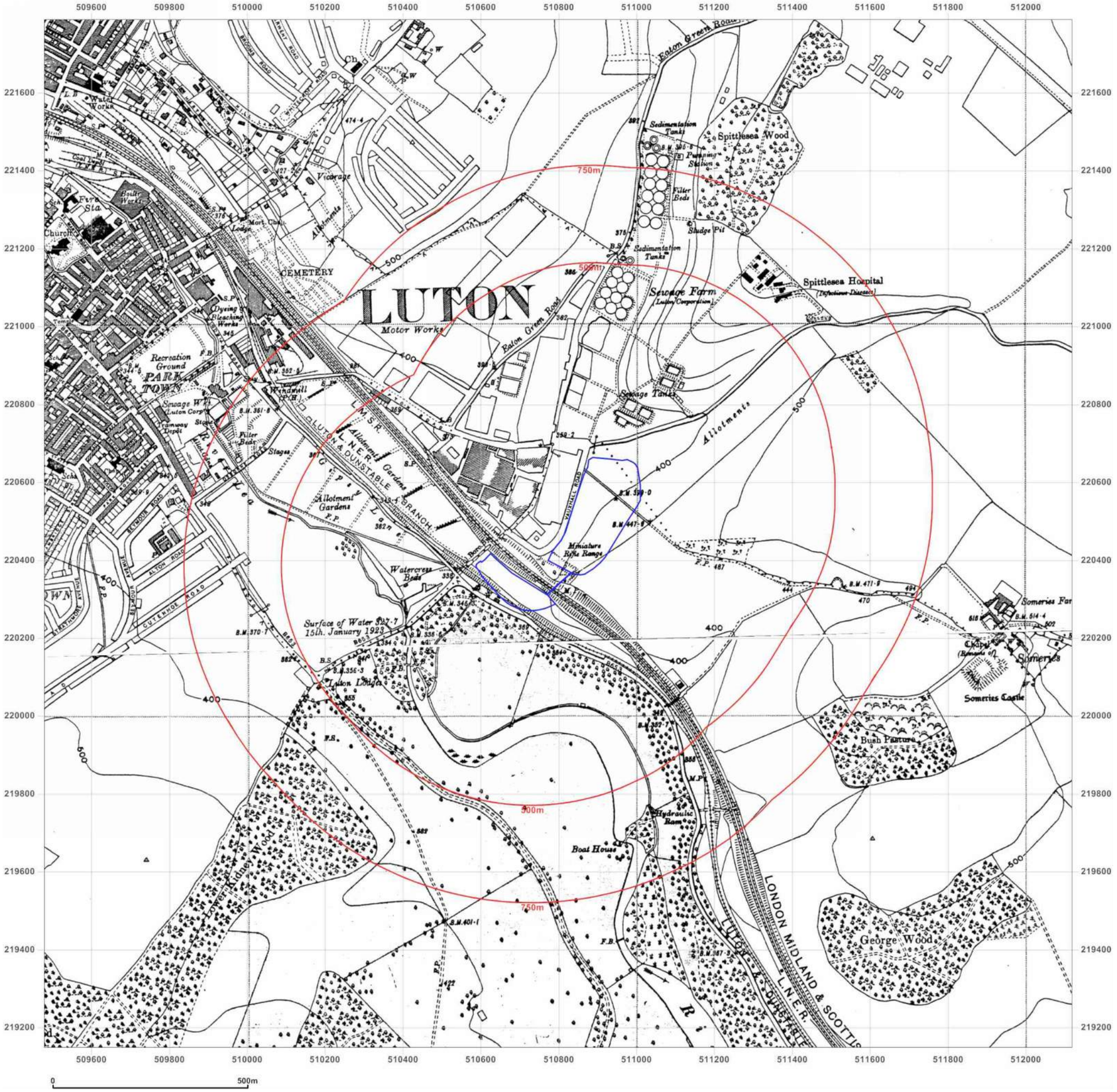

Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1979
Revised 1938
Edition N/A
Copyright N/A
Levelled 1923

Surveyed 1878
Revised 1938
Edition N/A
Copyright N/A
Levelled 1923

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Production date: 05 January 2018

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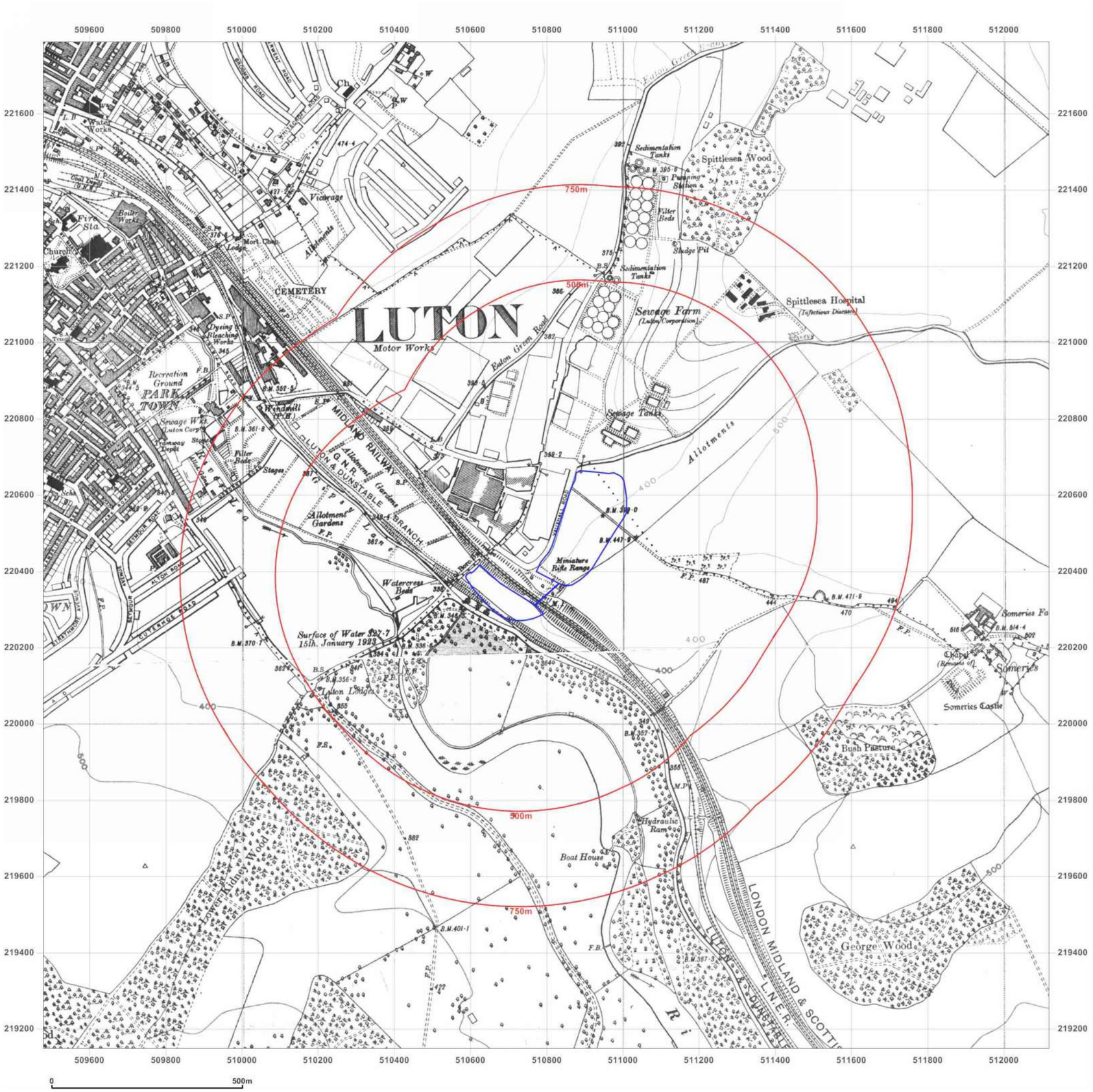

Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

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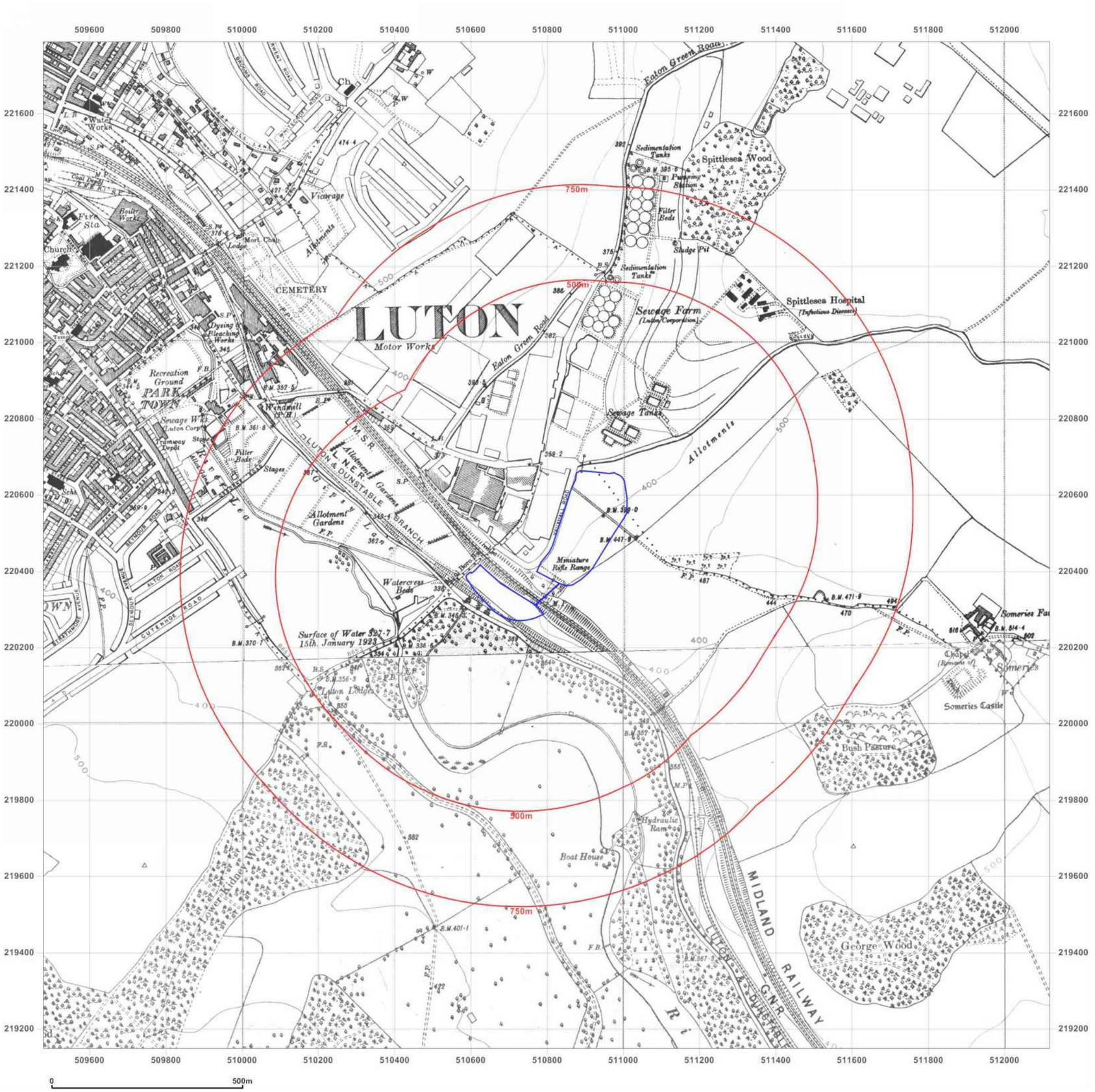

Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

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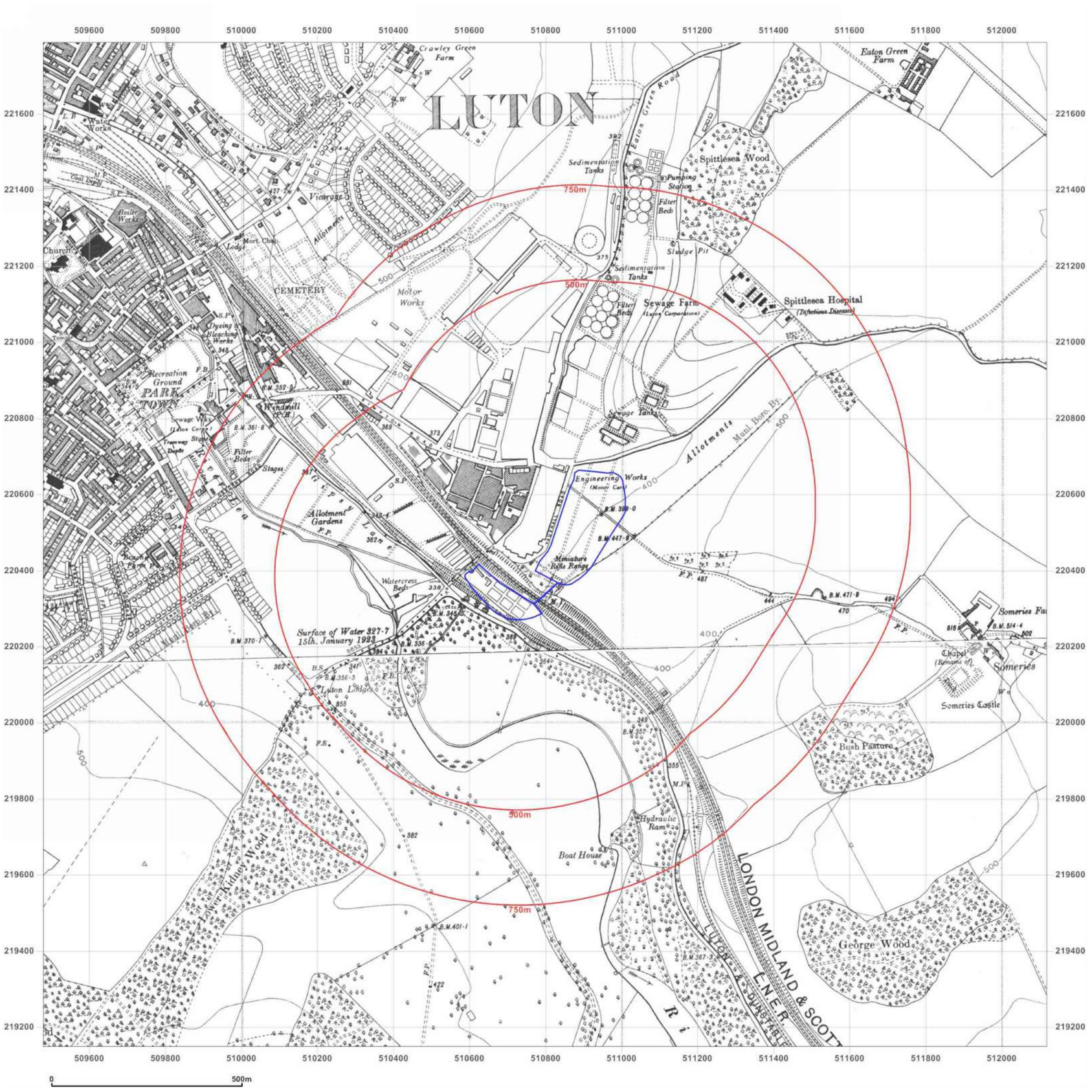
Production date: 05 January 2018

To view map legend click here *Legend*



Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: County Series

Map date: **1947**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 05 January 2018

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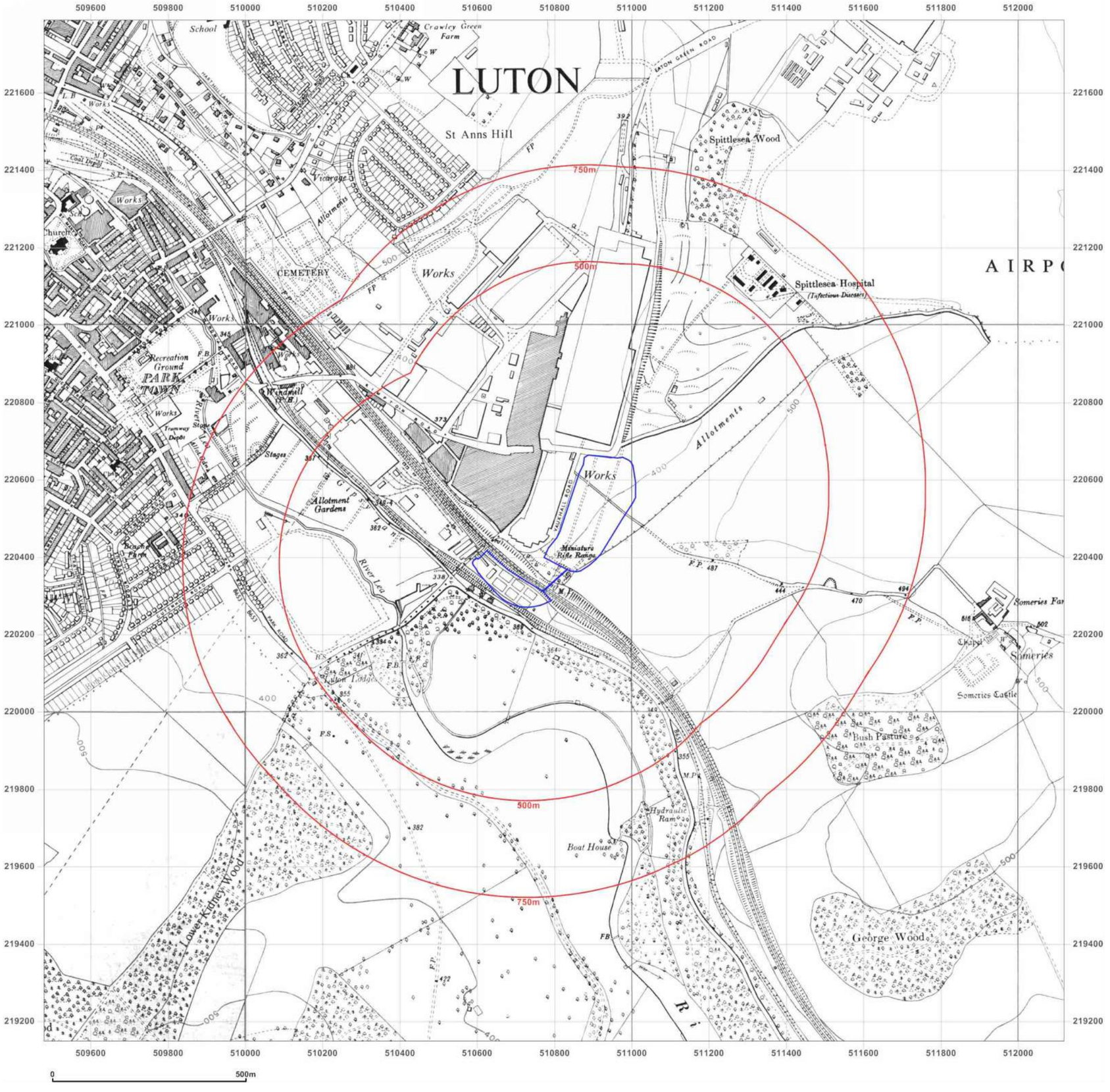

Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: Provisional

Map date: **1960**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1951 Revised 1951 Edition 1960 Copyright 1960 Levelled N/A	Surveyed N/A Revised 1959 Edition N/A Copyright 1960 Levelled N/A
Surveyed N/A Revised 1960 Edition 1960 Copyright 1960 Levelled N/A	Surveyed N/A Revised 1959 Edition N/A Copyright 1960 Levelled N/A

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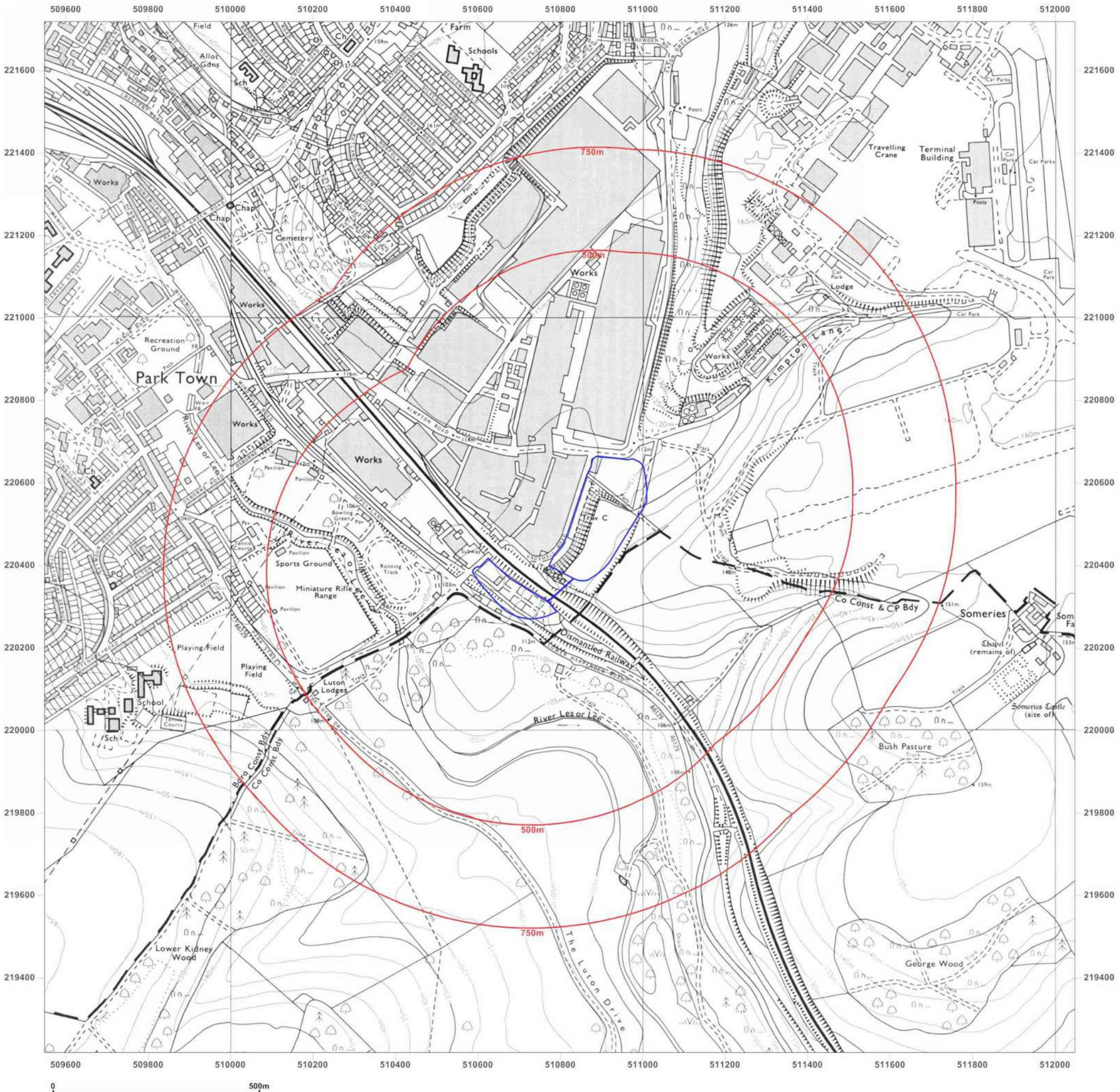

Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: National Grid

Map date: **1974-1977**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1974
Revised 1976
Edition N/A
Copyright 1977
Levelled 1970

Surveyed 1973
Revised 1975
Edition N/A
Copyright 1975
Levelled 1973

Surveyed 1973
Revised 1974
Edition N/A
Copyright 1975
Levelled 1971

Surveyed 1972
Revised 1974
Edition N/A
Copyright 1974
Levelled 1973

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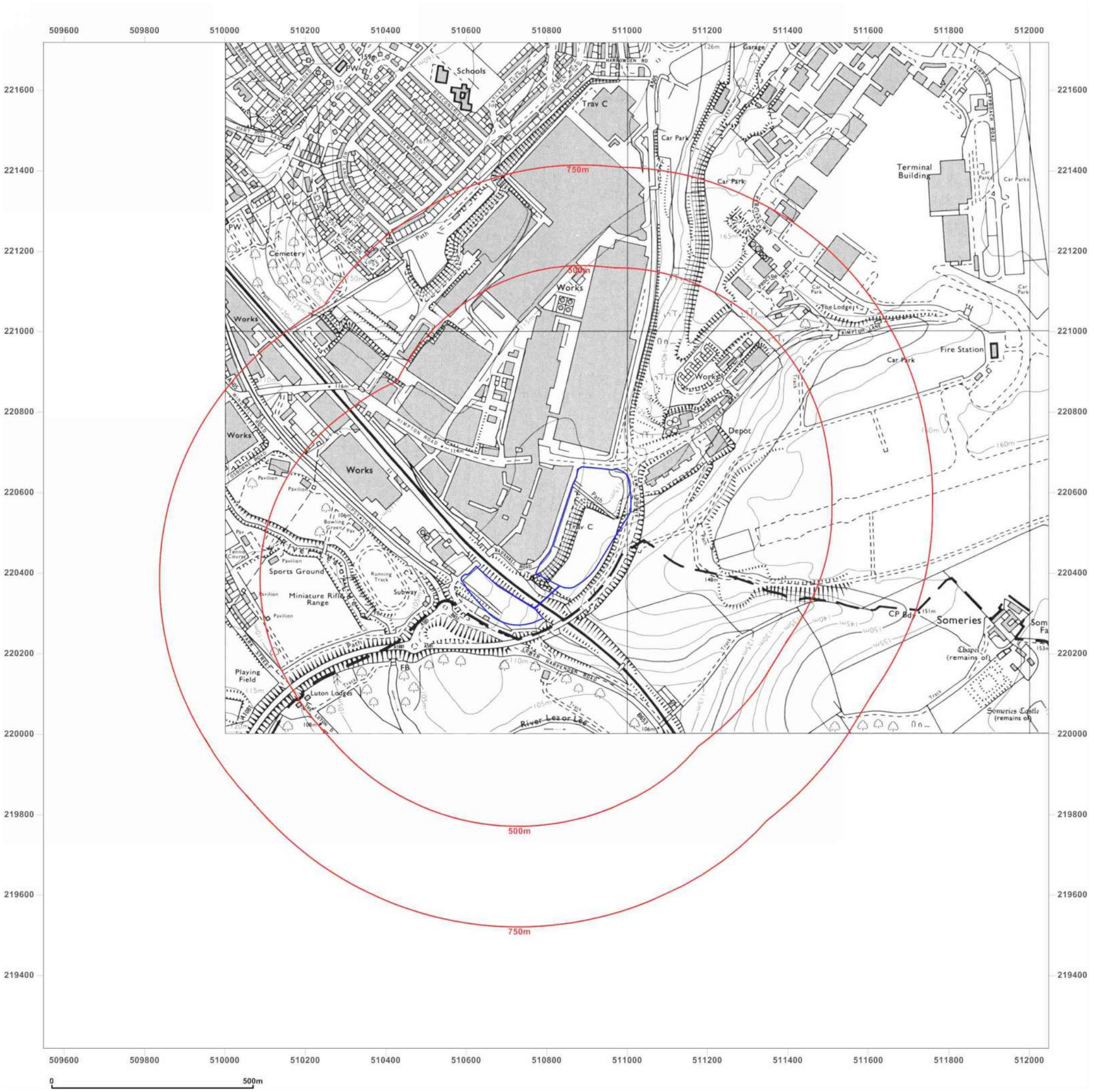


Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: National Grid

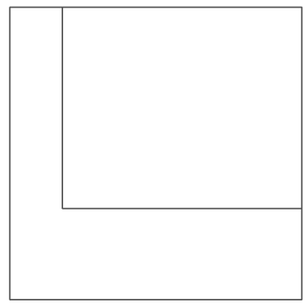
Map date: **1985**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A



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Production date: 05 January 2018

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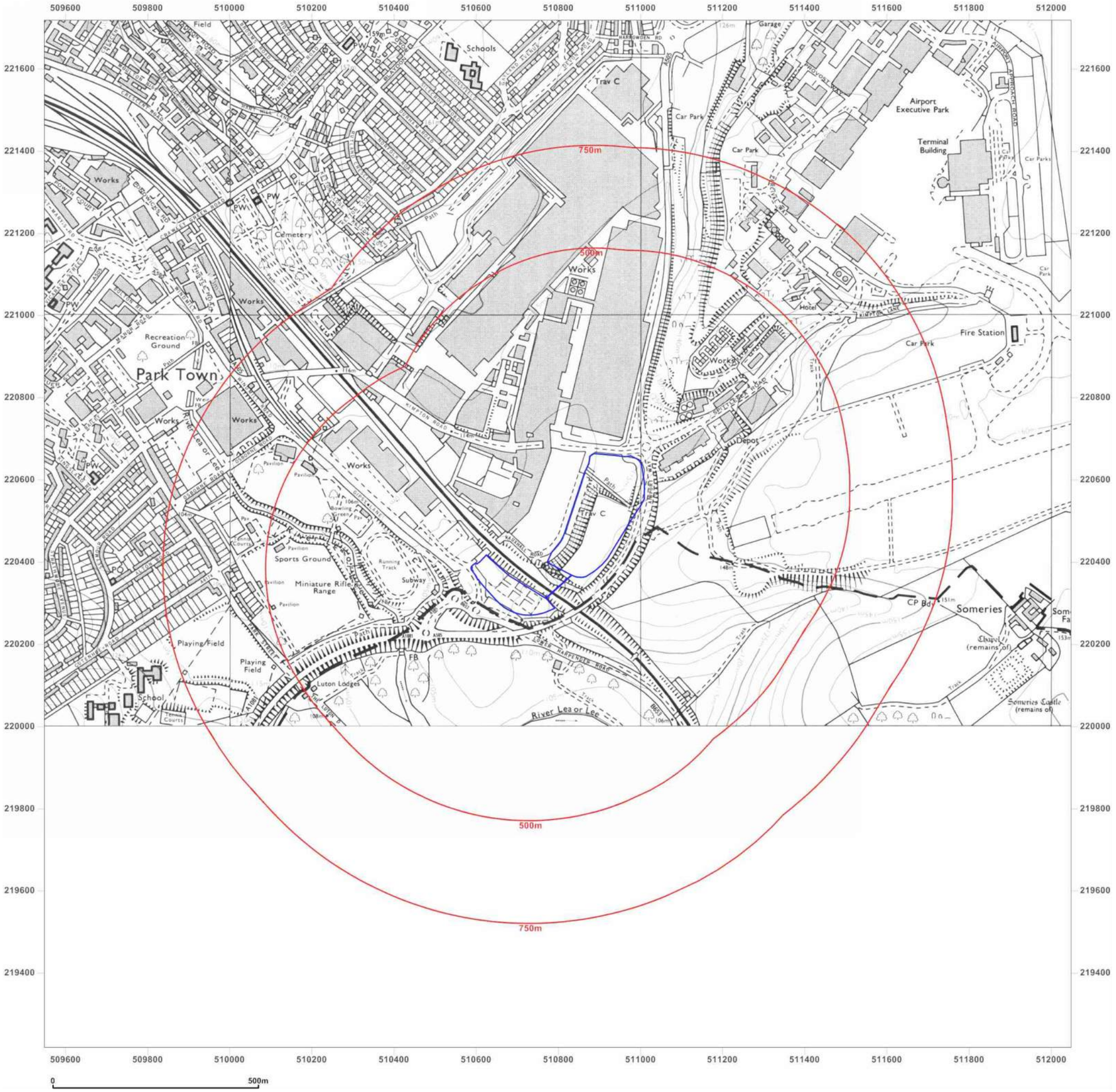


Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: National Grid

Map date: **1991**

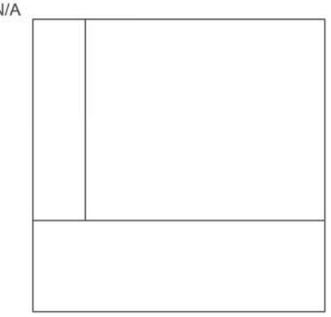
Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1989
Revised 1991
Edition N/A
Copyright N/A
Levelled N/A



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Production date: 05 January 2018

To view map legend click here *Legend*

Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: 1:10,000 Raster

Map date: **2002**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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2002

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Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2010

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Production date: 05 January 2018

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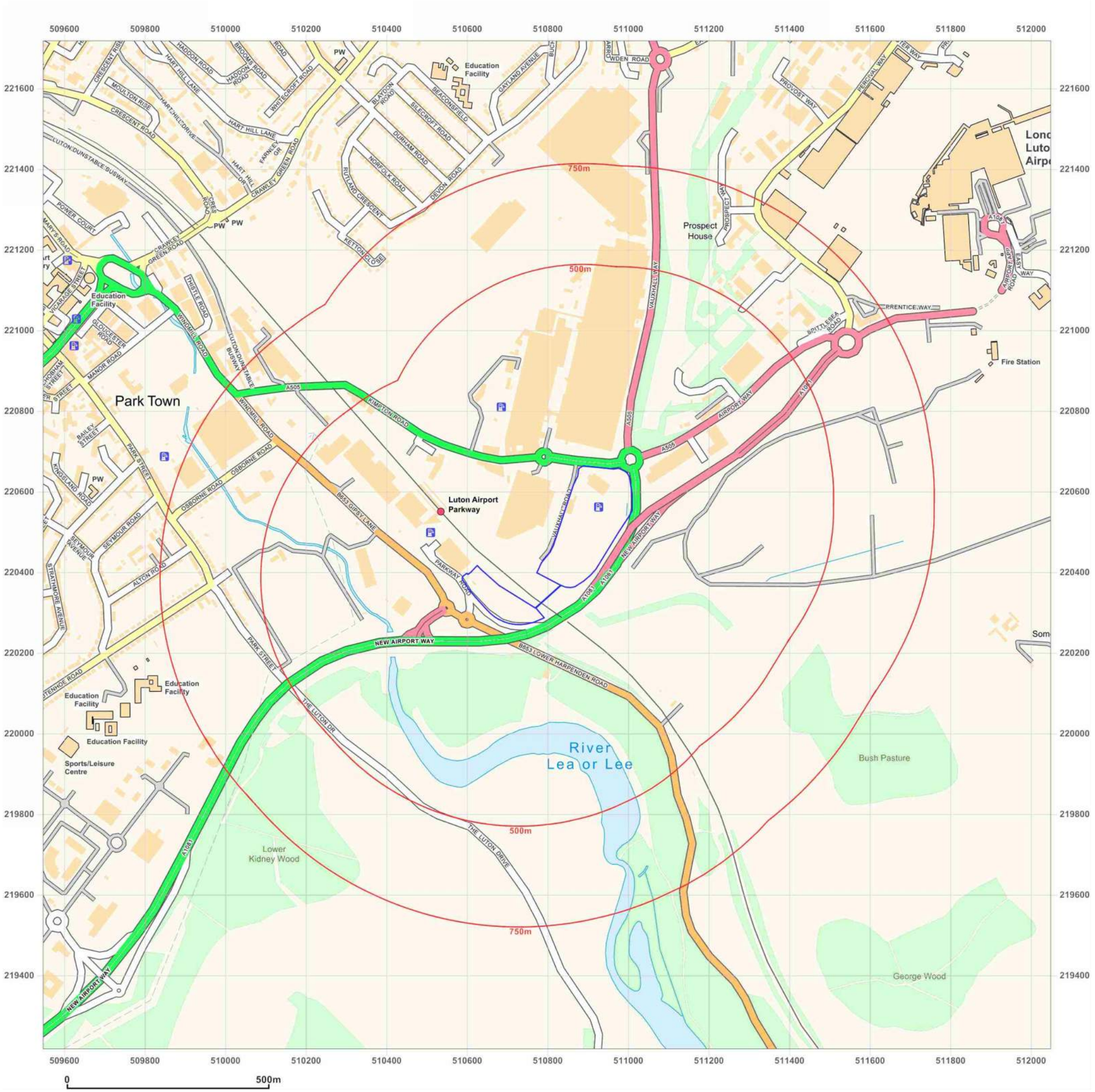

Groundsure INSIGHTS

Site Details:

510890, 220475

Client Ref: 245580-00_Trailer_Park
Report Ref: GS-4640549
Grid Ref: 510798, 220468

Map Name: National Grid

Map date: **2014**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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2014

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Production date: 05 January 2018

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Appendix B – **Correspondence**

B1 Environment Agency

creating a better place

Environment Agency

[redacted]
London Luton Airport
Navigation House Airport Way
London Luton Airport
Luton
LU2 9LY

Our ref: NE/2017/126879/01-L01

Date: 6 June 2017

Dear [redacted]

Review of desk study and meeting at Airport Way, Century Park, Luton, Bedfordshire.

Following our joint meeting on the 12th May 2017 thank you for sending us a copy of the document *London Luton Airport Limited Former Eaton Green Landfill Assessment of Potential Ground Risks* (Ove Arup & Partners Ltd ref: 245580 issue 2 dated 21 April 2017). I apologise for the delay in getting these comments back to you.

The report provides a review and preliminary risk assessment for the ground conditions in the vicinity of the site based on the currently available information and we agree with the conclusions and recommendations presented therein. It is evident from the report and the discussions during the meeting that you appreciate the potential challenges that may arise during the project given the history of waste disposal on site, the nature of the waste in the landfill and the site location (over a Principal aquifer that is abstracted locally for potable supply).

We have the following general comments relating to the proposed scheme:

- The waste identified during the site walkover is consistent with the limited amount of information we have relating to the landfill site. We have concerns about the unknown history of the site. We note that the site was receiving waste while the Luton Laporte chemical works were operational and the destination of the waste arising from the chemical works is not fully documented. As such, we have concerns that the site may have received waste arising from that location.

- The groundwater flow regime beneath the landfill (or the airport) is not fully understood. Groundwater data from the airport indicates large fluctuations in the water level and groundwater flow direction beneath the airport that may be influenced by the nearby groundwater abstractions.

- Groundwater abstractions in the Luton area are impacted with chlorinated volatile organic compounds (CVOC) and the source of this contamination is unknown. Whilst it is considered likely that the source is associated with automotive manufacturing in the area it is not possible to rule out the Elton Green Landfill as a potential source.

Cont/d..

INVESTOR IN PEOPLE

- The groundwater Source Protection Zones (SPZ) around Luton are being remodeled as part of an ongoing long term project. We have been advised that the SPZ in the vicinity of Luton Airport will be changed and that the current zones are indicative only. The Chalk aquifer beneath the site is considered to be very sensitive and you have correctly noted that a public supply boreholes has been lost in Hertfordshire due to groundwater contamination.

- Could groundwater samples from the vicinity of the landfill site be analysed for bromide, bromate and boron in addition to the other potential contaminants of concern identified in the report.

- Please note that Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS) have historically been stored and used on the airport.

- The Chalk beneath the airport is impacted with hydrocarbons and dicing agents which enter the groundwater via the soakaways on the airport. The airport is working towards resolving this issue.

- Infiltration Sustainable Drainage Systems (SUDs) will need to be located away from the landfill area. Also, given the sensitivity of the aquifer in the vicinity of the site we are unlikely to accept the use of deep borehole soakaways. If no other alternative can be identified we would expect a deep borehole soakaway to be operated under an Environmental Permit.

- In line with good practice can you please ensure that any boreholes / monitoring well installations are installed to prevent the possibility of cross contamination of the strata and aquifer units beneath the site. If this is not done they can act as preferential pathways for contaminant migration.

- A risk assessment for drilling and piling works within the landfill will be required so that mitigation measures for drilling / piling through contaminated waste materials (potentially including liquids and sludges) have been considered before drilling / piling works are undertaken in the area.

- Can you please ensure that any redundant boreholes are decommissioned promptly to prevent them accidentally being damaged or acting as preferential migration pathways for mobile contaminants during follow up works.

To follow on from your request for clarification regarding enabling earth works on the historical landfill. We have consulted our Permitting Specialist and it will not be possible to complete the enabling earthworks at the site under a CL:AIRE/ DoWCOP arrangement.

Restoration of historical landfills is subject to the Environmental Permitting Regulations and we believe that a bespoke permit for the works will be the best approach for this site. We can arrange a meeting or conference call if you would like to discuss this matter further.

Given the uncertainty with respect to the historical landfill, the sensitivity of the underlying aquifer and the anticipated complexity of the construction phase we welcome your request for continued dialogue with ourselves throughout the project. Requests for consultations and meetings outside of the normal planning regime would be subject to cost recovery in line with our pre application charging scheme. We also request that we are provided an outline programme of likely submissions / and requests for meeting so

that we can provide timely responses to any requests within the context of our current workloads.

Should you have any queries please do not hesitate to contact me.

Yours Sincerely

[redacted]
Sustainable Places Planning Advisor

Tel: [redacted]
E-mail [redacted]

End

creating a better place

Environment Agency

[redacted]
Luton Borough Council
Development Control
Town Hall George Street
Luton
Bedfordshire
LU1 2BQ

Our ref: NE/2018/128012/01-L01
Your ref: 17/02300/EIA

Date: 16 February 2018

Dear [redacted]

London Luton Airport, Land North and East of London Luton Airport, Luton, LU2 9JB

1. Outline permission for a new business park comprising office space (class b1), warehouse and industrial space (class b2 and b8), mixed employment space (class b1/b2/b8), a hotel (class c1), café space (class a3); energy recovery centre (sui generis), internal access roads; car parking, landscaping
And associated works including earthworks, utility diversions, sustainable drainage systems, tree removal and tree protection; and relocation of the airport car hire centre.

2. Full permission for the construction of a 2km century park access road incorporating a new junction on the a1081, alterations to the existing airport way roundabout, alterations to Frank Lester Way, a newly created access from Eaton Green Road, demolition of buildings, provision of replacement car parking (temporary and permanent), associated earthworks, landscaping, surface water drainage and utilities diversions; the creation of new public
Open space including footpaths, landscaping and ecological mitigation; extension and alterations to Wigmore pavilion building to provide café (class A3) and additional community space; construction of a new skate park and children's play area; and construction of a replacement airport technical services building and associated parking.

Thank you for consulting us on this application. The previous use of part of the development site as a landfill receiving mixed inert, industrial, commercial and domestic wastes presents a high risk of contamination that could be mobilised during construction to pollute controlled waters. Other areas of the site, including beneath the proposed route of the Century Park access road, have also been used for potentially contaminative land uses including historical aviation manufacturing and airport support activities. Controlled waters are particularly sensitive in this location because the proposed development site is located upon a Principal aquifer.

The information presented in Appendix GCC of the Environmental Statement report (GL Hearn Ltd, December 2017) including the document *Century Park Development, Airport Way – Landfill Area, Contamination Quantitative Risk Assessment* (Ove Arup and Partners, 21 September 2017) submitted in support of this planning application provides

Cont/d..

INVESTOR IN PEOPLE

us with confidence that it will be possible to suitably manage the risk posed to controlled waters by this proposed development.

Preliminary environmental site assessment works have been completed across the proposed development site, however further detailed environmental assessment works will be required to refine the conceptual site model such that robust risk management / remediation strategies can be developed for the entirety of the proposed development. It is our opinion that it would place an unreasonable burden on the developer to ask for more detailed information prior to the granting of planning permission but respect that this is a decision for the Local Planning Authority.

In light of the above, the proposed development will be acceptable if the following planning conditions are included. Without these conditions we would object to the proposal in line with paragraph 109 of the National Planning Policy Framework because it cannot be guaranteed that the development will not be put at unacceptable risk from, or be adversely affected by, unacceptable levels of water pollution.

Condition 1
Prior to each phase of development approved by this planning permission no development shall commence until a remediation strategy to deal with the risks associated with contamination of the site has been submitted to, and approved in writing by, the Local Planning Authority. This strategy will include the following components:

1. A preliminary risk assessment which has identified:
- all previous uses;
- potential contaminants associated with those uses;
- a conceptual model of the site indicating sources, pathways and receptors considering both the current condition and proposed future usage of the site; and
- potentially unacceptable risks arising from contamination at the site.

2. A site investigation scheme, based on (1) to provide information for a detailed assessment of the risk to all receptors (current and future) that may be affected, including those off site. This must include a detailed hydrogeological risk assessment using site specific groundwater level and quality data to assess risks to controlled waters considering the current site conditions and the anticipated conditions post development. In addition, the hydrogeological risk assessment must assess the potential for leachate mobilisation / expulsion caused by disturbance and changes in loading in the historical Eaton Green landfill area that may occur as a result of the development.
3. The results of the site investigation and the detailed risk assessment referred to in (2) and, based on these, an options appraisal and remediation strategy giving full details of the remediation measures required and how they are to be undertaken.
4. A verification plan providing details of the data that will be collected in order to demonstrate that the works set out in the remediation strategy in (3) are complete and identifying any requirements for longer-term monitoring of pollutant linkages, maintenance and arrangements for contingency action.

Any changes to these components require the written consent of the local planning authority. The scheme shall be implemented as approved.

Reason
The proposed development overlies land that has been historically utilised for potentially contaminative land uses. This condition is required to ensure that the development is not put at unacceptable risk from, or adversely affected by, unacceptable levels water pollution in line with paragraph 109 of the National Planning Policy Framework.

Condition 2
Prior to each phase of development brought into use a verification report demonstrating the completion of works set out in the approved remediation strategy and the effectiveness of the remediation shall be submitted to, and approved in writing, by the local planning authority. The report shall include results of sampling and monitoring carried out in accordance with the approved verification plan to demonstrate that the site remediation criteria have been met.

Reasons
The proposed development overlies land that has been historically utilised for potentially contaminative land uses that may have resulted in soil and or groundwater contamination. Where such contamination is identified to present an unacceptable risk to groundwater within the context of the conceptual site model (CSM), controlled waters risk assessment, remediation strategy and verification plan (Condition 1), a verification report (Condition 2) is required to demonstrate the remediation of the site has been successful and that residual contamination at the site no longer presents a risk to controlled waters. This is in line with paragraph 109 of the National Planning Policy Framework.

Condition 3
The development hereby permitted may not commence until a monitoring and maintenance plan in respect of contamination, including a timetable of monitoring and submission of reports to the Local Planning Authority, has been submitted to, and approved in writing by, the Local Planning Authority. Reports as specified in the approved plan, including details of any necessary contingency action arising from the monitoring, shall be submitted to, and approved in writing by, the Local Planning Authority.

Reasons
The Environmental Statement report (GL Hearn Ltd, December 2017) submitted in support of this application indicates that groundwater beneath the proposed development site is already impacted with contaminants associated with the historical usage of the site. The groundwater monitoring and maintenance programme will provide data to demonstrate that no further deterioration of groundwater quality beneath the site has occurred as a result of the proposed development.

Condition 4
If, during development, contamination not previously identified is found to be present at the site then no further development (unless otherwise agreed in writing with the Local Planning Authority) shall be carried out until a remediation strategy detailing how this contamination will be dealt with has been submitted to and approved in writing by the Local Planning Authority. The remediation strategy shall be implemented as approved.

Reasons
No site investigation can completely characterise a site and contamination may exist or in areas where contamination was not expected and therefore not included in the original remediation proposals. To ensure that the development is not put at unacceptable risk from, or adversely affected by, unacceptable levels water pollution from previously unidentified contamination sources at the development site in line with paragraph 109 of the National Planning Policy Framework.

Condition 5
No infiltration of surface water drainage into the ground is permitted other than with the written consent of the Local Planning Authority. The development shall be carried out in

accordance with the approved details.

Reasons
The previous use of part of the proposed development site as a landfill receiving mixed inert, industrial, commercial and domestic wastes presents a high risk of contamination that could be mobilised by surface water infiltration from the proposed sustainable drainage system (SuDS) leading to pollution of controlled waters. Controlled waters are particularly sensitive in this location because the proposed development site is located upon a Principal aquifer.

In light of the above, we do not believe that the use of infiltration SuDS is appropriate in the vicinity of the historical landfill. We therefore request that the above planning condition is included in any permission granted. Without this condition we would object to the proposal in line with paragraph 109 of the National Planning Policy Framework because it cannot be guaranteed that the development will not be put at unacceptable risk from, or be adversely affected by, unacceptable levels of water pollution.

Condition 6
Piling and other foundation designs using penetrative methods shall not be permitted other than with the express written consent of the local planning authority. The development shall be carried out in accordance with the approved details.

Reason
Piling using penetrative methods can result in risks to groundwater from by introducing pollutants / turbidity, mobilising contamination, drilling through different aquifers and creating preferential pathways. Groundwater is particularly sensitive in this location because the proposed development site is located upon a Principal aquifer. The above condition is recommended to ensure that the proposed piling works do not harm groundwater resources in line with paragraph 109 of the National Planning Policy Framework

Condition 7
A scheme for managing any redundant boreholes, shafts, tunnels and adits including boreholes installed for the investigation of soils, groundwater or geotechnical purposes shall be submitted to and approved in writing by the local planning authority. The scheme shall provide details of how redundant boreholes, tunnels, shafts and adits are to be decommissioned and how any boreholes that need to be retained, post-development, for monitoring purposes will be secured, protected and inspected. The scheme as approved shall be implemented prior to of each phase of development.

Reason
To ensure that redundant boreholes, shafts, tunnels and adits are safe and secure, and do not cause groundwater pollution or loss of water supplies in line with paragraph 109 of the National Planning Policy Framework and Position Statement A8 of the Environment Agency's Groundwater Protection: Principles and Practice. If these ground penetrations are not decommissioned correctly they can provide preferential pathways for contaminant movement which poses a risk to groundwater quality. Groundwater is particularly sensitive in this location because the proposed development site is located upon a Principal aquifer.

Advice to Applicant

Condition 3 - The groundwater monitoring plan should include boreholes that intercept the groundwater to enable seasonal groundwater flow patterns to be established and

the collection of groundwater samples from across the site for laboratory analysis throughout the lifecycle of the proposed development (e.g. prior to, during and post development). The long-term monitoring plan should also refer to contingency actions that may be required should groundwater quality beneath the site be noted to deteriorate as a result of the proposed development works. This is in line with paragraph 109 of the National Planning Policy Framework. That states that the planning system should contribute to and enhancing the natural and local environment by preventing both new and existing development from contributing to or being put at unacceptable risk from, or being adversely affected by unacceptable levels of water pollution.

Condition 6 - A piling risk assessment and appropriate mitigation measures should be submitted with consideration of the EA guidance (http://webarchive.nationalarchives.gov.uk/20140328084622/http://cdn.environment-agency.gov.uk/scho0202bisw-e-e.pdf). Groundwater quality monitoring should be undertaken in the vicinity of proposed piling works prior to, during and subsequent to the completion of the piling works to demonstrate that the activity has not detrimentally impacted on groundwater. The piling risk assessment should include reference to mitigation measures that will be employed should a deterioration of groundwater quality be noted as a result of piling activities.

Environmental site assessments must be prepared by a Competent Person. The Planning Practice Guidance defines a "Competent Person (to prepare site investigation information): A person with a recognised relevant qualification, sufficient experience in dealing with the type(s) of pollution or land instability, and membership of a relevant professional organisation."(http://planningguidance.planningportal.gov.uk/blog/policy/achieving-sustainable-development/annex-2-glossary/)"

We recommend that developers should:

1. Follow the risk management framework provided in CLR11, Model Procedures for the Management of Land Contamination, when dealing with land affected by contamination.
2. Refer to the Environment Agency Guiding principles for land contamination for the type of information that we required in order to assess risks to controlled waters from the site. The Local Authority can advise on risk to other receptors, such as human health.
3. Consider using the National Quality Mark Scheme for Land Contamination Management which involves the use of competent persons to ensure that land contamination risks are appropriately managed.
4. Refer to the contaminated land pages on GOV.UK for more information.

We expect the site investigations to be carried out in accordance with best practice guidance for site investigations on land affected by land contamination (e.g. British Standards and current industry guidance) with reference to the following documents:

- BS5930:2015 Code of practice for site investigations;
- BS 10175:2011 A1:2013 Code of practice for investigation of potentially contaminated sites;
- BS ISO 5667-22:2010 Water quality. Sampling. Guidance on the design and installation of groundwater monitoring points;
- BS ISO 5667-11:2009 Water quality. Sampling. Guidance on sampling of groundwaters (A minimum of 3 groundwater monitoring boreholes are required to

establish the groundwater levels, flow patterns and groundwater quality.)
- Use MCERTS accredited methods for testing contaminated soils at the site.

A Detailed Quantitative Risk Assessment (DQRA) for controlled waters using the results of the site investigations with consideration of the hydrogeology of the site and the degree of any existing groundwater and surface water pollution should be carried out. This increased provision of information by the applicant reflects the potentially greater risk to the water environment. The DQRA report should be prepared by a "Competent person" (e.g. a suitably qualified hydrogeologist).

In the absence of any applicable on-site data, a range of values should be used to calculate the sensitivity of the input parameter on the outcome of the risk assessment. Please refer to the guidance presented in The Environment Agency's Approach to Groundwater Protection (Version 1.1 November 2017) for guidance on setting compliance points in DQRAs. Where groundwater has been impacted by contamination on site, the default compliance point for both Principal and Secondary aquifers is 50m.

Where leaching tests are used it is strongly recommended that BS ISO 18772:2008 is followed as a logical process to aid the selection and justification of appropriate tests based on a conceptual understanding of soil and contaminant properties, likely and worst-case exposure conditions, leaching mechanisms, and study objectives. During risk assessment one should characterise the leaching behaviour of contaminated soils using an appropriate suite of tests. As a minimum these tests should be:

- upflow percolation column test, run to LS 2 – to derive kappa values;
- pH dependence test if pH shifts are realistically predicted with regard to soil properties and exposure scenario; and
- LS 2 batch test – to benchmark results of a simple compliance test against the final step of the column test.

Following the DQRA, a Remediation Options Appraisal to determine the Remediation Strategy in accordance with CRL11.
The verification plan should include proposals for a groundwater-monitoring programme to encompass regular monitoring for a period before, during and after ground works. E.g. monthly monitoring before, during and for at least the first quarter after completion of ground works, and then quarterly for the remaining 9-month period.)

Where SUDs are proposed; infiltration SUDs should not be located in unsuitable and unstable ground conditions such as land affected by contamination or solution features. Where infiltration SuDS are to be used for surface run-off from roads, car parking and public or amenity areas, they should have a suitable series of treatment steps to prevent the pollution of groundwater. For the immediate drainage catchment areas used for handling and storage of chemicals and fuel, handling and storage of waste and lorry, bus and coach parking or turning areas, infiltration SuDS are not permitted without an environmental permit. Further advice is available in the updated CIRIA SUDs manual http://www.ciria.org/Resources/Free_publications/SuDS_manual_C753.aspx

Environmental Permit
This development will require an Environmental Permit under the Environmental Permitting (England and Wales) Regulations 2010 from the Environment Agency, unless a waste exemption applies. The applicant is advised to contact us on 03708 506 506 to discuss the issues likely to be raised.

We advise the applicant to seek the services of a suitably qualified environmental consultant who is familiar with redevelopment activities at former waste disposal sites and environmental permit applications.

We consider that there would be benefits to parallel tracking the planning and environmental permit applications and advise joint discussions with the applicant, planning authority and ourselves to consider this further. Parallel tracking planning and environmental permit applications offers the best option for ensuring that all issues can be identified and resolved, where possible, at the earliest possible stages. This will avoid the potential need for amendments to the planning application post-permission.

Should you have any queries please contact me.

Yours sincerely

[redacted]
Sustainable Places Planning Advisor

Tel: [redacted]
E-mail [redacted]

End

Receipt Hertfordshire and North London Customers and Engagement

ENVIRONMENT AGENCY

VAT Registration Number: GB 662 4901 34

Date: 03 March 2016

Environment Agency Reference:
HNL/4252/JH

Customer Name and Address:

[redacted]
[redacted]Arup.com

Accepted by:

[redacted]

Print Name: [redacted]

Remittance Details

Credit/Debit Card	£60.00
Cheque	

Net Amount Received	£50.00
VAT for Licence only	£10.00
Total amount received	**£60.00**

Apollo Court, 2 Bishop Square Business Park, St Albans Road West, Hatfield, Hertfordshire, AL10 9EX
Customer services line: 03708 506 506
Email: HNLenquiries@environment-agency.gov.uk
Website: www.gov.uk/environment-agency

[redacted]

Our ref: 4252JH

Date: 9 March 2016

Email: [redacted]

Dear [redacted]

Enquiry regarding Luton Airport Landfill, Eaton Green Road, Luton.

Thank you for your enquiry which was received on 11 February 2016 and subsequent payment received 3 March 2016.

We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

Please find attached a map of the landfill site and a spreadsheet of the details we hold on the landfill. The site closed in 1978 prior to our formation in 1996, the local waste authority (usually the local, borough or county council) may hold more detailed records or waste deposits and remediation steps.

This site never had an environmental permit, all records should be held by Luton Unitary Authority, we have no additional information in the Installations team (regarding Gas or any other monitoring. As the site was operated by Luton Borough Council they should hold results from the monitoring of the landfill but also records of the waste inputs and commissioning of the gas control measures which our data indicates were put in place.

We have no landfill site permits relating to the historic landfill site. Located on the landfill site, see attached map, there is a waste site WML80489. Please find attached the permit details available. If you require more details on the permitted site please contact me. (Inspection reports/ annual returns data)

Below is a summary of the ground water investigation information held on 8 sites within approximately 1km of the Luton Airport (I have taken NGR 512430 , 221545 as the centre, which corresponds with one the CL/26 site locations). In all cases the Local Planning Authority (LPA) is Luton Borough Council.

CL/2731:

Our records show that this review was in response to a planning consultation, with the requested groundwater monitoring results showing mercury and solvents to be present, as well as other heavy metals. This file is classed as closed, and as such it is advisable to contact the LPA who should hold further details.

FLOODS DESTROY BE PREPARED

CL/3331:

Our records show that this review was in response to a planning consultation, and was classed as fit for purpose in 2007. As such I advise you to contact the Local Planning Authority who should hold further details.

CL/00007:

Our records show that this review was in response to a planning consultation, with the only information we hold relating to correspondence from 1996 regarding proposed ground and groundwater investigations, due to the sites close proximity to the Eaton Green Road landfill site. As such I would advise you to contact the LPA who should hold further information.

CL/3942:

Our records show that this review is part of an ongoing planning consultation for the expansion of Luton airport, including a groundwater monitoring report covering 2013-2014 provided by Luton Airport, with regards to the drainage scheme in use. As this review was part of a planning application, I would advise you to contact the LPA who should hold further details.

CL/00052:

Our records show this review was in relation to a planning application and was signed off fit for purpose in 2002. The only records on file are a summary of various correspondence regarding planning conditions and an Environmental Evaluation (ref SSE/EM/2). As such, I advise you to contact the LPA, who should hold further details.

CL/3657:

Our records show that this review was in relation to a pre-planning application consultation regarding the demolition of an existing structure and building of a new two storey structure. Records indicate that a site investigation report has been submitted, but no copy is held on our systems. As such I would advise you contact the LPA, who should hold further details.

CL/2541:

Our records show that this review was in relation to a planning consultation, passed fit for purpose in 2006. Unfortunately, most of the records where destroyed during a file review in 2013. The only file on record is a semi annual monitoring report 2006, completed in relation to the loss of a known quantity of aviation fuel. As such I would advise you to contact the LPA, who should hold further details.

CL/4006

Our records show that this review was in relation to a planning consultation, and states that a Preliminary Risk Assessment was accepted and conditions set. Unfortunately we have no documents on file, so I would advise you to consult LPA, who should hold further information.

Please be aware that we only consider risks to groundwater. Risks to other

receptors (Human Health, Property, Ecology etc.) are the province of the Local Environmental Health Department and they should be contacted for further information.

We have no records of enforcement action on the landfill site, please also contact the local authority for additional details.

Please contact the local planning authority for details of any building and development conditions for the landfill site.

We only monitor groundwater levels in Principal Aquifers, which have significant water resource implications. In your area, the Principal Aquifer is the Chalk. Measured levels are dependent on a variety of factors, including aquifer properties, local geological and terrain conditions, time of measurement, seasonal variations and abstractions.

The depth to groundwater map shows the distance measured from the ground level to the top of the water in the borehole in the chalk aquifer. It is recorded as metres below ground level. Please see the attached Ground Water map.

I have attached our Standard Notice which explains the permitted use of this information.

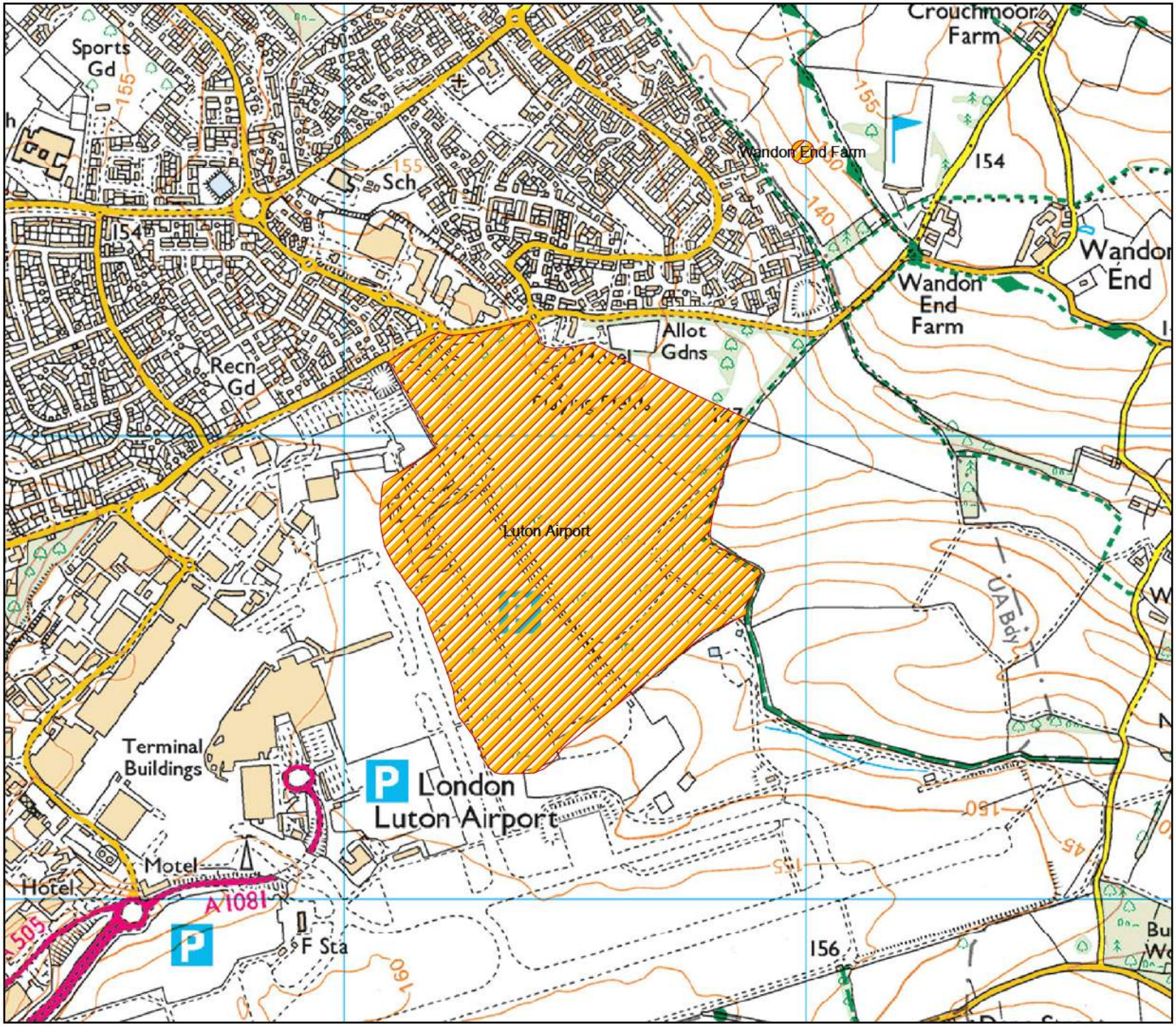
Please get in touch if you have any further queries or contact us within two months if you'd like us to review the information we have sent.

We would be really grateful if you could spare five minutes to help us improve our service. Please click on the link below and fill in our survey – we use every piece of feedback we receive:
http://www.smartsurvey.co.uk/s/EnvironmentAgencyCustomerSurvey/?a=HNL

Yours sincerely

[redacted]

Customers and Engagement Officer
Direct dial [redacted]
Direct fax [redacted]
Direct email HNLenquiries@environment-agency.gov.uk



Environment Agency

Environment Agency
2 Bishops Square Business Park
St Albans Road West
Hatfield
Hertfordshire
AL10 9EX

Enquiry Ref: 4252JH
Luton Airport

3 March 2016

Legend

Old Landfill

N
W E
S

0 80 160 320 480 640

Metres

Produced by:
Customer and Engagement
Hertfordshire and North London

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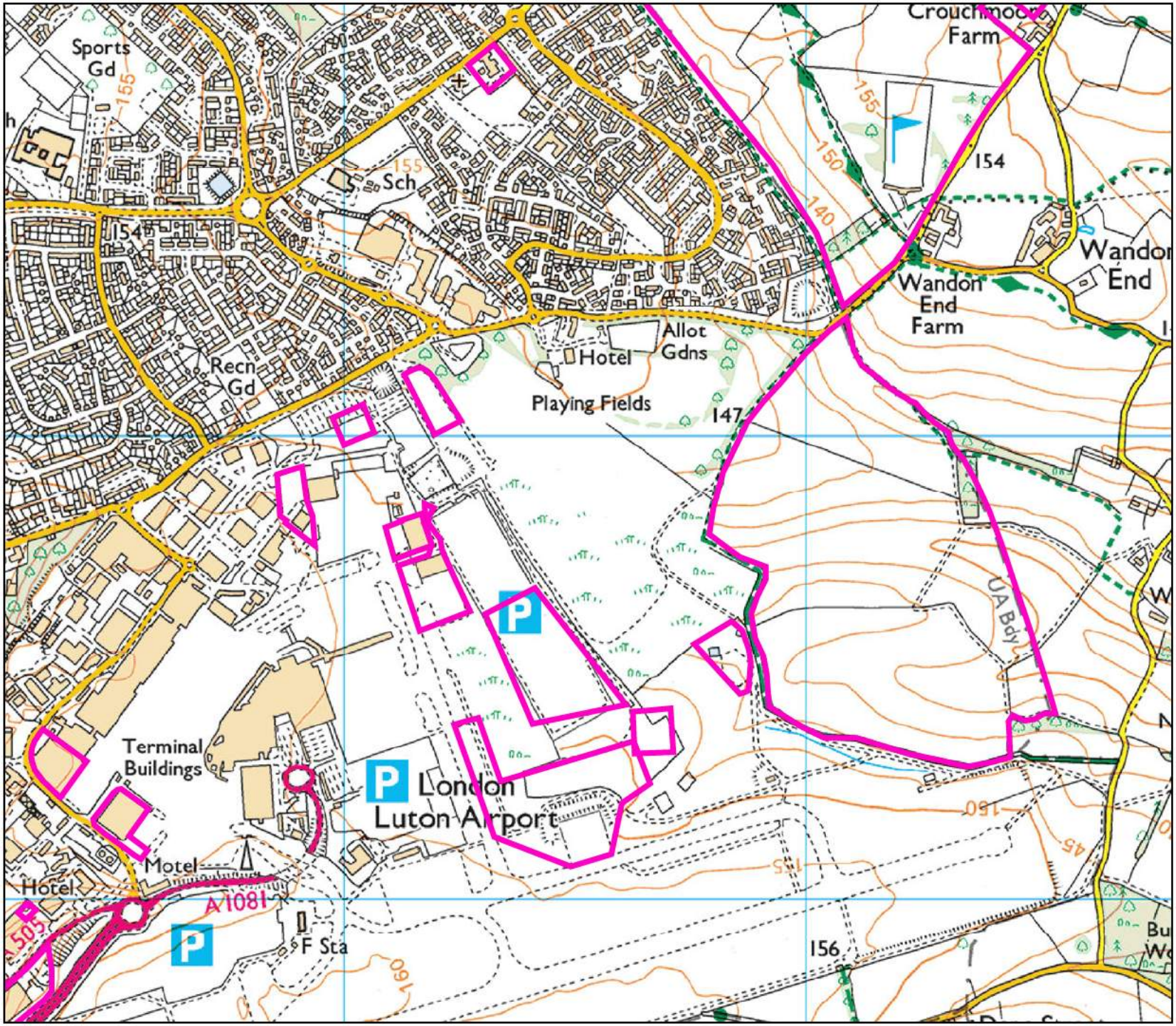

Environment Agency
2 Bishops Square Business Park
St Albans Road West
Hatfield
Hertfordshire
AL10 9EX

Enquiry Ref: 4252JH
Luton Airport

3 March 2016

Legend

CL_Sites

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0 80 160 320 480 640

Metres

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Hertfordshire and North London

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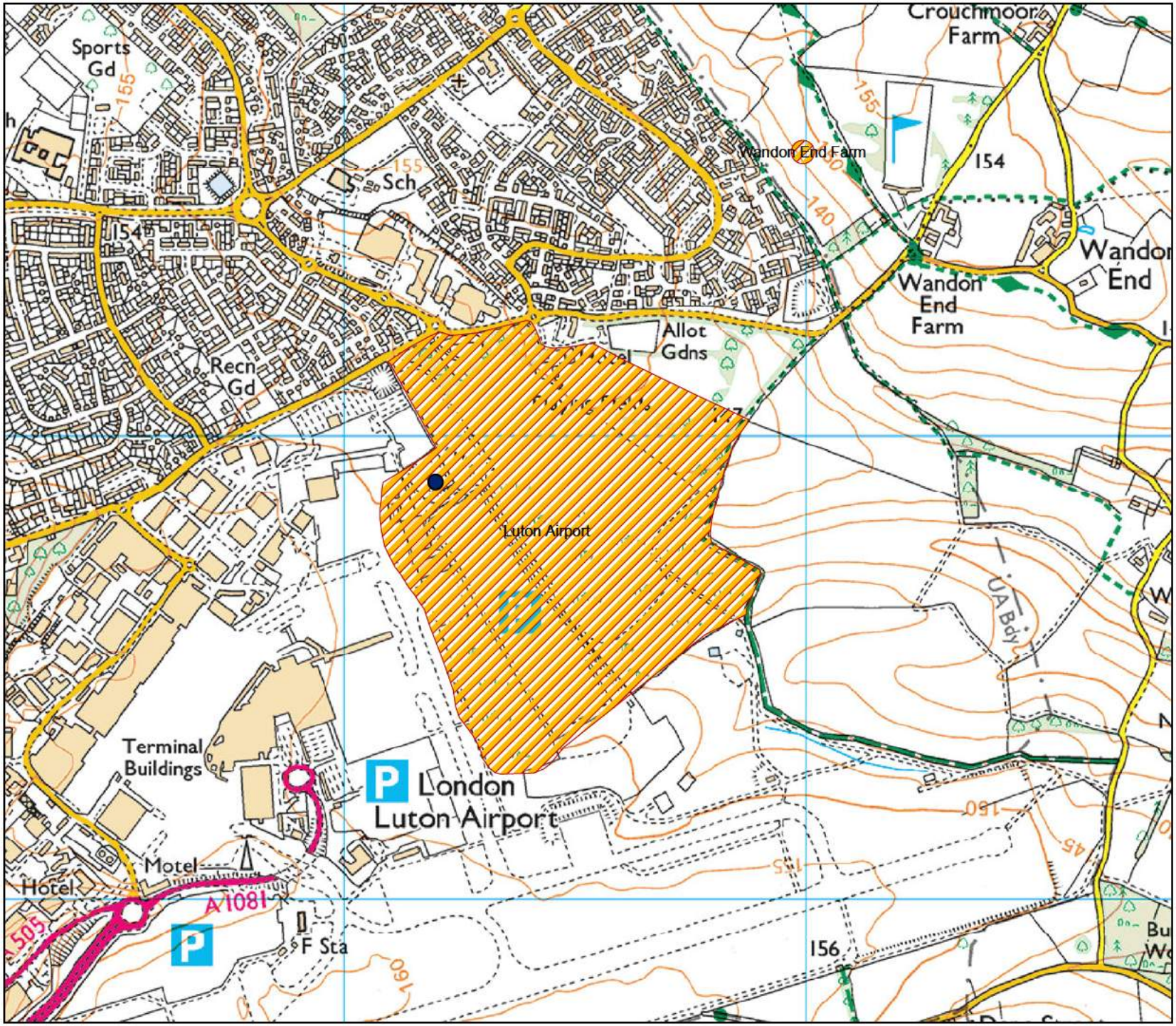

Environment Agency

Environment Agency
2 Bishops Square Business Park
St Albans Road West
Hatfield
Hertfordshire
AL10 9EX

Enquiry Ref: 4252JH
Luton Airport

3 March 2016

Legend

- Old Landfill
- All Current WML

N
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0 80 160 320 480 640
Metres

Produced by:
Customer and Engagement
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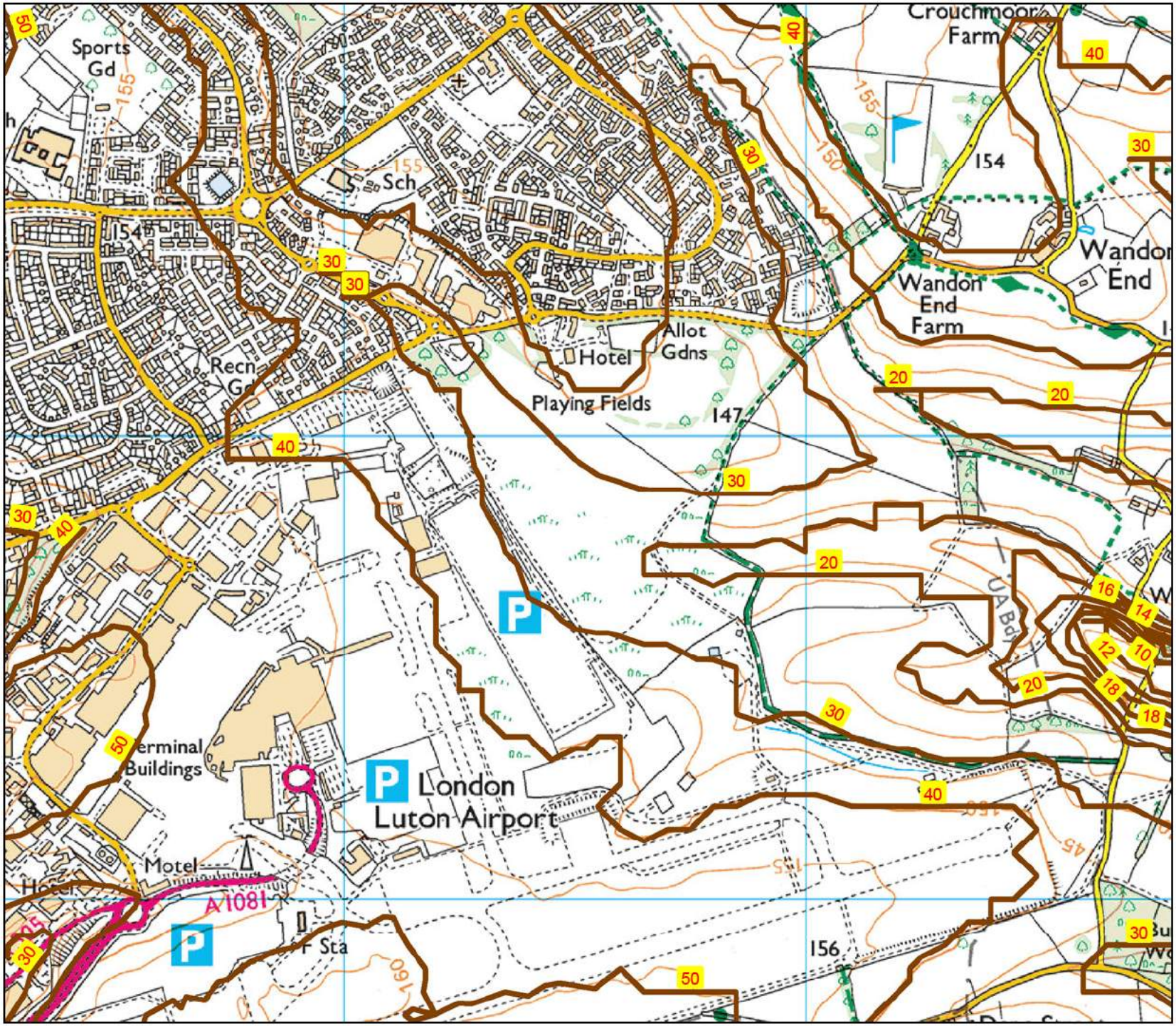

Environment Agency
2 Bishops Square Business Park
St Albans Road West
Hatfield
Hertfordshire
AL10 9EX

Enquiry Ref: 4252JH
Luton Airport

3 March 2016

Legend

Groundwater_flooding

Geology

- London Clay
- Superficial aquifer overlying London Clay
- Depth to Groundwater (m)

N
W E
S

0 80 160 320 480 640

Metres

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creating a better place

Environment Agency

ENVIRONMENTAL PROTECTION ACT 1990.
SECTION 37
WASTE MANAGEMENT LICENCE
NOTICE OF MODIFICATION

LICENCE REF No:- WML80489 **LICENCE HOLDER:-** **The Company Secretary** **Waste Recycling Limited** **Ground Floor West** **900 Pavilion Drive** **Northampton Business Park** **Northampton** **NN4 7RG** **Company Reg No 2674166**	**FACILITY TYPE:** **A11 (Transfer station)** **LICENSED FACILITY:-** **Civic Amenity Site** **Eaton Green Road** **Luton** **Bedfordshire** **LU2 9JD**

WHEREAS on the 10 November 1993 the Bedfordshire County Council granted a disposal licence (now to be treated as a waste management licence) in pursuance of its powers under Part I of the Control of Pollution Act 1974 for the above named facility.

AND WHEREAS on the 1 April 1995 the powers and duties of all waste regulation authorities in England and Wales being transferred to the Environment Agency ("the Agency") by virtue of section 2 of the Environment Act 1995.

AND WHEREAS on 31 March 1997, 29 October 1998 and 31 May 2001 the Environment Agency modified the conditions of the said licence

AND WHEREAS on 30 April 2004 the said licence was transferred to you.

AND WHEREAS on the 17 July 2006 you applied to the Environment Agency to modify the conditions of the said licence

NOTICE IS HEREBY GIVEN that the Agency modifies the conditions of the said licence in accordance with section 37(1)(a) and (b) of the Environmental Protection Act 1990 and as set out in the Schedule attached to this notice.

[redacted]

Team Leader – Regulatory Waste

Dated 6 December 2006

This modification shall take effect on **7 December 2006** at 00.01 hours

YOUR ATTENTION IS DRAWN TO THE RIGHTS OF APPEAL AT THE END OF THIS NOTICE.

SCHEDULE

CONDITIONS RELATING TO THIS MODIFICATION

Modification of conditions under section 37(1)(a) and (b) of the Environmental Protection Act 1990 are as follows:

Any references in this licence to "Special Waste" shall now be read as "Hazardous Waste".

Conditions modified under section 37(1) (b)
Conditions 1.3, 3.26 are deleted

Conditions modified under section 37(1) (a)
Condition 1.1 is deleted and replaced as follows:

1.1 **Specified waste management operations**

1.1.1 No waste management operations shall be authorised by this licence unless:

a) specified in and undertaken in accordance with the limitations in the following table (Table 1.1), or

b) otherwise required by the conditions of this licence as being an integral part of those operations

Table 1.1 Specified waste management operations		
Specified Waste Management Operation	**Permitted Waste Types which may be subject to the Specified Operation**	**Limits on Specified Waste Management Operations**
D15 : Storage of waste pending any of the operations listed in paragraphs 1 to 14 of Part III of Schedule 4 of the 1994 Regulations (as amended), but excluding temporary storage, pending collection, on the site where the waste is produced. **D9**:Physico-Chemical Treatment of waste not listed elsewhere in this part of this schedule which results in final compounds or mixtures which are discarded by means of any of the operations listed in paragraphs 1 to 12 of this part of this schedule(for example evaporation, drying calcination). **D14**: Repackaging of waste prior to the waste being submitted to any of the operations listed in paragraph 1 to 13 of this part of this schedule. **R3:**Recycling or reclamation of organic substances which are not used as solvents, including composting and other biological transformation processes. **R4:** Recycling and reclamation of metal and metal compounds. **D5:** Recycling and reclamation of other inorganic materials.	Permitted waste types shall only be in accordance with Section 3.1 of the working plan.	Maximum storage capacity 250 tonnes at any one time. Included in the above figure, no more than 10 tonnes of hazardous waste destined for disposal shall be stored at any one time. Fluorescent tubes shall only be stored in clearly labelled containers located in a dedicated area. Refrigerators shall only be stored in a dedicated area and not exceed a height of 2.5 metres or 2 fridge units high. Waste mineral, synthetic and readily bio-degradable engine, gear and lubricating oils shall only be stored in accordance with conditions 2.4, 2.9 and 3.2 All hazardous waste of a solid nature shall be stored in appropriately labelled container in accordance with conditions 2.9, 3.2 and 3.3. All hazardous wastes of a liquid nature shall be stored in accordance with conditions 2.9, 3.4 3.5 and 3.6. Containers holding waste shall only be stored on an impermeable concrete surface.

Condition 1.1.2 and Appendix A are added pursuant to section 37(1)(a)

Condition 1.1.2 Permitted Quantities of waste.
The total quantity of waste accepted at the site per year shall not exceed 24,999 tonnes.

APPENDIX A
LIST OF WASTES THAT CAN BE ACCEPTED AT THE SITE:

Waste Code	Description
03	Wastes from wood processing and the production of panels and furniture, pulp paper and cardboard
03 01	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 01 01	Waste bark and cork
03 01 05	Waste bark and cork sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
13	Oil wastes and wastes of liquid fuels
13 02	Waste engine, gear and lubricating oils
13 02 04*	Mineral-based chlorinated engine, gear and lubricating oils
13 02 05*	Mineral-based non-chlorinated engine, gear and lubricating oils
13 02 06*	Synthetic engine, gear and lubricating oils
13 02 07*	Readily biodegradable engine, gear and lubricating oils
13 02 08*	Other engine, gear and lubricating oils
15	Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise permitted
15 01	Packaging
15 01 02	Plastic packaging
16	Wastes not otherwise specified in the list
16 01	End-of-life vehicles and waste from dismantling of end-of life vehicles and vehicle maintenance
16 01 03	End of life tyres
16 01 07*	Oil filters
16 06	Batteries and accumulators
16 06 01*	Lead batteries
17 01	Concrete, bricks, tiles and ceramics
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	Wood, glass and plastic
17 02 01	Wood
17 02 02	Glass
17 02 03	Plastic
17 04	Metals (including their alloys)
17 04 01	Copper, bronze, brass
17 04 02	Aluminium
17 04 03	Lead
17 04 04	Zinc
17 04 05	Iron and steel
17 04 06	Tin
17 04 07	Mixed metals
17 04 11	Cables other than those mentioned in 17 04 10
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	Soil and stones other than those mentioned in 17 05 03
17 05 06	Dredging spoil other than those mentioned in 17 05 05
17 06	Insulation materials and asbestos-based construction materials
17 06 04	Insulation materials other than those mentioned in 17 06 01*(insulation materials containing asbestos) and 17 06 03*(other insulation materials consisting of or containing dangerous substances)

17 08	**Gypsum based construction material**
17 08 02	Gypsum based construction materials other than those mentioned in 17 08 01
17 09	**Other construction and demolition waste**
17 09 04	Mixed construction and demolition waste other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
19	**Wastes from waste management facilities, off-site waste water treatment plants and preparation of water intended for human consumption/industrial use**
19 12	**Wastes from the mechanical treatment of wastes (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 01	Paper and cardboard
19 12 02	Ferrous metal
19 12 03	Non-ferrous metal
19 12 04	Plastic and rubber
19 12 05	Glass
19 12 07	Wood other than that mentioned in 19 12 06
19 12 08	Textiles
19 12 09	Minerals (for example sand, stones)
19 12 12	Other wastes (including mixtures of minerals) from mechanical treatment of wastes other than those mentioned in 19 12 11 (from mechanical treatment of waste containing dangerous substances)
20	**Municipal wastes (Household waste and similar commercial, industrial and institutional wastes) including separately collected fractions**
20 01	**Separately collected fractions (except 15 01)**
20 01 01	Paper and cardboard
20 01 02	Glass
20 01 10	Clothes
20 01 11	Textiles
20 01 13*	Solvents
20 01 19*	Pesticides
20 01 21*	Fluorescent tubes and other mercury containing waste
20 01 23*	Discarded equipment containing chlorofluorocarbons
20 01 25	Edible oil and fat
20 01 27*	Resins containing dangerous paint, inks, adhesives and substances
20 01 28	Paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 33*	Batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 34	Batteries and accumulators other than those mentioned in 20 01 33
20 01 35*	Discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
20 01 36	Discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 37*	Wood containing dangerous substances
20 01 38	Wood other than that mentioned in 20 01 37
20 01 39	Plastics
20 01 40	Metals
20 02	**Garden and park wastes (including cemetery waste)**
20 02 01	Biodegradable waste
20 02 02	Soil and stones
20 02 03	Other non-biodegradable wastes
20 03	**Other municipal wastes**
20 03 01	Mixed municipal waste
20 03 02	Waste from markets
20 03 03	Street cleaning residues

EXPLANATORY NOTES - RIGHTS OF APPEAL
Section 43(1) of the Environmental Protection Act 1990 provides that —

Where, except in pursuance of a direction given by the Secretary of State,

(a) an application for a licence or a modification of the conditions of a licence is rejected

(b) a licence is granted subject to conditions,

the applicant may appeal from the decision to the Secretary of State.
Therefore if you feel aggrieved by the decision or any of the conditions to the licence as granted you may obtain the appropriate form on which to give written notice of an appeal from:-

Environmental Appeals Administration
The Planning Inspectorate
Room 4/19
Eagle Wing
Temple Quay House
2 The Square
Temple Quay
Bristol
BS1 6PN

Tel: 0117 372 8726
Fax: 0117 372 8139

This notice of appeal should be accompanied by the following information: a copy of the licence; a copy of any correspondence relevant to the appeal; a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission, established use certificate or certificate of lawful use or development; and a statement indicating whether you wish the appeal to be in the form of a hearing or on the basis of written representations. You are also required to serve a copy of your notice of appeal, together with copies of any of the above documents that have accompanied your notice of appeal, on the Environment Agency, Apollo Court, 2 Bishop Square, St Albans Road West, Hatfield, Herts. AL10 9EX. You should appeal within 6 months of the date that this notice takes effect but the Secretary of State may allow notice of appeal to be given after the expiry of this time period.

creating a better place

Environment Agency

ENVIRONMENTAL PROTECTION ACT 1990.
SECTION 37
WASTE MANAGEMENT LICENCE
NOTICE OF MODIFICATION

LICENCE REF No:- WML80489 **LICENCE HOLDER:-** **The Company Secretary** **Waste Recycling Limited** **Ground Floor West** **900 Pavilion Drive** **Northampton Business Park** **Northampton** **NN4 7RG** **Company Reg No 2674166**	**FACILITY TYPE:** **A11 (Transfer station)** **LICENSED FACILITY:-** **Civic Amenity Site** **Eaton Green Road** **Luton** **Bedfordshire** **LU2 9JD**

WHEREAS on the 10 November 1993 the Bedfordshire County Council granted a disposal licence (now to be treated as a waste management licence) in pursuance of its powers under Part I of the Control of Pollution Act 1974 for the above named facility.

AND WHEREAS on the 1 April 1995 the powers and duties of all waste regulation authorities in England and Wales being transferred to the Environment Agency ("the Agency") by virtue of section 2 of the Environment Act 1995.

AND WHEREAS on 31 March 1997, 29 October 1998, 31 May 2001 and 6 December 2006 the Environment Agency modified the conditions of the said licence

AND WHEREAS on 30 April 2004 the said licence was transferred to you.

NOTICE IS HEREBY GIVEN that the Agency modifies the conditions of the said licence in accordance with section 37(1)(a) of the Environmental Protection Act 1990 and as set out in the Schedule attached to this notice.

[redacted]

Team Leader – Regulatory Waste

Dated 30 March 2007

This modification shall take effect on **30 March 2007** at 00.01 hours

YOUR ATTENTION IS DRAWN TO THE RIGHTS OF APPEAL AT THE END OF THIS NOTICE.

SCHEDULE

CONDITIONS RELATING TO THIS MODIFICATION

Condition modified under section 37(1) (a) of the Environmental Protection Act 1990 is as follows:

Condition 1.1 is deleted and replaced as follows:

1.1 **Specified waste management operations**

1.1.1 No waste management operations shall be authorised by this licence unless:

a) specified in and undertaken in accordance with the limitations in the following table (Table 1.1), or

b) otherwise required by the conditions of this licence as being an integral part of those operations

Table 1.1 Specified waste management operations		
Specified Waste Management Operation	**Permitted Waste Types which may be subject to the Specified Operation**	**Limits on Specified Waste Management Operations**
D15 : Storage of waste pending any of the operations listed in paragraphs 1 to 14 of Part III of Schedule 4 of the 1994 Regulations (as amended), but excluding temporary storage, pending collection, on the site where the waste is produced. **D9**:Physico-Chemical Treatment of waste not listed elsewhere in this part of this schedule which results in final compounds or mixtures which are discarded by means of any of the operations listed in paragraphs 1 to 12 of this part of this schedule(for example evaporation, drying calcination). **D14**: Repackaging of waste prior to the waste being submitted to any of the operations listed in paragraph 1 to 13 of this part of this schedule. **R3:**Recycling or reclamation of organic substances which are not used as solvents, including composting and other biological transformation processes. **R4:** Recycling and reclamation of metal and metal compounds. **R5:** Recycling and reclamation of other inorganic materials. **R13:** Storage of waste pending any of the operations listed in paragraph 1 to 12 of this part of this Schedule, but excluding temporary storage, pending collection on the site where it is produced (R13).	Permitted waste types shall only be in accordance with Section 3.1 of the working plan.	Maximum storage capacity 250 tonnes at any one time. Included in the above figure, no more than 10 tonnes of hazardous waste destined for disposal shall be stored at any one time. Fluorescent tubes shall only be stored in clearly labelled containers located in a dedicated area. Refrigerators shall only be stored in a dedicated area and not exceed a height of 2.5 metres or 2 fridge units high. Waste mineral, synthetic and readily bio-degradable engine, gear and lubricating oils shall only be stored in accordance with conditions 2.4, 2.9 and 3.2 All hazardous waste of a solid nature shall be stored in appropriately labelled container in accordance with conditions 2.9, 3.2 and 3.3. All hazardous wastes of a liquid nature shall be stored in accordance with conditions 2.9, 3.4 3.5 and 3.6. Containers holding waste shall only be stored in accordance with conditions 2.3, 3.2, 3.4 and 3.7

EXPLANATORY NOTES - RIGHTS OF APPEAL
Section 43(1) of the Environmental Protection Act 1990 provides that —

Where, except in pursuance of a direction given by the Secretary of State,

(a) an application for a licence or a modification of the conditions of a licence is rejected

(b) a licence is granted subject to conditions,

the applicant may appeal from the decision to the Secretary of State.
Therefore if you feel aggrieved by the decision or any of the conditions to the licence as granted you may obtain the appropriate form on which to give written notice of an appeal from:-

Environmental Appeals Administration
The Planning Inspectorate
Room 4/19
Eagle Wing
Temple Quay House
2 The Square
Temple Quay
Bristol
BS1 6PN

Tel: 0117 372 8726
Fax: 0117 372 8139

This notice of appeal should be accompanied by the following information: a copy of the licence; a copy of any correspondence relevant to the appeal; a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission, established use certificate or certificate of lawful use or development; and a statement indicating whether you wish the appeal to be in the form of a hearing or on the basis of written representations. You are also required to serve a copy of your notice of appeal, together with copies of any of the above documents that have accompanied your notice of appeal, on the Environment Agency, Apollo Court, 2 Bishop Square, St Albans Road West, Hatfield, Herts. AL10 9EX. You should appeal within 6 months of the date that this notice takes effect but the Secretary of State may allow notice of appeal to be given after the expiry of this time period.

ENVIRONMENT AGENCY

ENVIRONMENTAL PROTECTION ACT 1990
WASTE MANAGEMENT LICENCE

NOTICE OF MODIFICATION

SECTION 37

TO: **Luton Borough Council**
of: **Town Hall**
Luton
Bedfordshire
LU1 2BQ

LICENCE No: **32/1993 (WML80489)**

WHEREAS on the 10 November 1993 Bedfordshire County Council granted a disposal licence (now to be treated as a waste management licence) relating to land at Luton Tidy Tip Civic Amenity Site, Eaton Green Road, Luton to Mr R J Miller of 2 Close Road, Pavenham, Bedford

AND WHEREAS on 29 October 1998 the Environment Agency (the powers and duties of all the waste regulation authorities in England and Wales being transferred to the Environment Agency by virtue of section 2 of the Environment Act 1995) transferred the said licence to Mr R Taaffe trading as CA Management Services of Marsh Farm, Salford Priors, Evesham, Worcestershire, WR11 5SG

AND WHEREAS on 31 May 2001 the Environment Agency transferred the said licence to you,

AND WHEREAS on 31 March 1997 and 29 October 1998 the Environment Agency modified the conditions of the said licence

AND WHEREAS on 16 August 2000 you applied to the Environment Agency to transfer the said licence

NOW the Environment Agency **HEREBY GIVES NOTICE** of modifying the said conditions as shown on the attached schedule.

This modification is made pursuant to the Environmental Protection Act 1990 section 37(1)(a) and shall take effect at 00.01 hours on 1 June 2001.

[redacted]

Date: 31 May 2001.

Team Leader – Waste Licensing

YOUR ATTENTION IS DRAWN TO THE RIGHTS OF APPEAL DETAILED IN THE NOTES AT THE END OF THIS MODIFICATION

The Environment Agency, Apollo Court, 2 Bishop Square, St Albans Road West, Hatfield, Herts. AL10 9EX
Tel: 01707 632300 Fax: 01707 632500

Schedule

Condition 3.26 is deleted and replaced as follows

Maintenance of financial provision

3.26 The financial provision for meeting the obligations under this Licence set out in the Agreement made between the Licence Holder and the Agency dated 31 May 2001 shall be maintained by the Licence Holder throughout the subsistence of this Licence and the Licence Holder shall produce evidence of such provision whenever required by the Agency.

EXPLANATORY NOTES – RIGHTS OF APPEAL

Section 43(1) of the Environmental Protection Act 1990 provides that

Where, except in pursuance of a direction given by the Secretary of State —

a) an application for a licence or a modification of the conditions to the licence is rejected

b) the conditions of a licence are modified

the applicant may appeal from the decision to the Secretary of State.

Therefore if you feel aggrieved by the decision or any of the conditions to the licence as granted you may obtain the appropriate form on which to give written notice of an appeal from:

Environmental Appeals Administration
The Planning Inspectorate
Room 4/19
Eagle Wing
Temple Quay House
2 The Square
Temple Quay
Bristol
BS1 6PN

Tel: 0117 372 8235/8812
Fax: 0117 372 6093

This notice of appeal should be accompanied by the following information: a copy of the licence; a copy of any correspondence relevant to the appeal; a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission, established use certificate or certificate of lawful use or development; and a statement indicating whether you wish the appeal to be in the form of a hearing or on the basis of written representations. You are also required to serve a copy of your notice of appeal on the Environment Agency at Apollo Court, 2 Bishop Square, St Albans Road West, Hatfield, Herts, AL10 9EX. You should appeal within 6 months of the date that this notice takes effect but the Secretary of State may allow notice of appeal to be given after the expiry of this time period.

Bedfordshire County Council

OUTGOING

PERMIT

County Engineers

WASTE REGULATION

CONTROL OF POLLUTION ACT 1974 PART I (WASTE ON LAND)

DISPOSAL LICENCE NUMBER:
32/1993

HOLDER OF LICENCE
(Name and Address)

[redacted]

LOCATION OF FACILITY
LUTON TIDY TIP
EATON GREEN ROAD LUTON

NATURE OF FACILITY
CIVIC AMENITY SITE

SEWRAC Member

Waste Regulation Unit
County Engineer's Department
County Hall
BEDFORD MK42 9AP

CONTENTS PAGE NO

RECITALS 4

SECTION 1: ACCEPTABLE WASTES AND QUANTITIES

1.1 MAXIMUM DEPOSIT & CATEGORY 5

1.2 OPERATIONAL CAPACITY 5

1.3 HOUSEHOLD WASTES 5

SECTION 2: SITE PREPARATION

2.1 WORKING PLAN 5

2.2 FENCING AND GATES 5

2.3 OPERATIONAL AREAS 5

2.4 STORAGE TANKS 5

2.5 WASHING FACILITIES 6

2.6 STORE FOR TOOLS 6

2.7 SITE IDENTIFICATION BOARD 6

2.8 SITE LIGHTING 6

2.9 CONTAINERS CONSTRUCTION 6

SECTION 3: OPERATIONS

3.1 QUANTITY OF WASTE 6

3.2 STORAGE OF WASTE 6

3.3 RECYCLING OF WASTE 6

3.4 CHEMICAL STORAGE LOCKERS 6

3.5 SEGREGATING CHEMICALS 6

3.6 CHEMICAL CAPACITY 6

3.7 SORTING & REMOVAL OF WASTE 6

3.8 EMPTYING WASTE CONTAINERS 7

3.9	SITE CLEANLINESS	7
3.10	SPILLAGES	7
3.11	WASHING TANKS & CONTAINERS	7
3.12	ODOURS	7
3.13	FIRES	7
3.14	SERVICING EQUIPMENT	7
3.15	STAFF AND SUPERVISION	7
3.16	SITE LICENCE	7
3.17	SITE RECORDS	7
3.18	CHEMICAL RECORDS	7
3.19	RODENTS AND INSECTS	7
3.20	TERMS OF LICENCE	8
3.21	OPERATING HOURS	8

APPENDICES

SCHEDULE OF CATEGORIES OF WASTE

APPEALS PROCEDURES

Disposal Licence No.32/1993

Dated 10 NOV 1993

BEDFORDSHIRE COUNTY COUNCIL

THE CONTROL OF POLLUTION ACT 1974 - PART 1

THE COLLECTION AND DISPOSAL OF WASTE REGULATIONS 1988

THE CONTROL OF POLLUTION (SPECIAL WASTE) REGULATIONS 1980

DISPOSAL LICENCE FOR CONTROLLED WASTES

TO:	(a)	R J Miller	(a) Licence Holder
	(b)		(b) (Agents or local representatives of Licence Holder)

The Bedfordshire County Council, the Disposal Authority for Bedfordshire under the Control of Pollution Act, 1974, in pursuance of its powers under the aforementioned Act and Regulations HEREBY GRANTS A DISPOSAL LICENCE to:- [redacted]

(herein called the Licence Holder) for those activities described in Section 3(1) of the said Act and in paragraph (2) hereunder, upon the land hereinafter described while in the occupation of the licence holder, and in accordance with the conditions specified in this licence.

(1)	Description and location of land to which licence relates:	Civic Amenity Site, Eaton Green Road, Luton as outlined in red on the plan attached to this licence
	O. S. Map No. Grid Reference.	TL12SW TL122219
(2)	Deposit or use to which the licence relates.	Sorting, storing & transfer of household waste.

For the purpose of this licence the term "Special Waste" shall have the meaning assigned to it by Regulation 2 of the Control of Pollution (Special Waste) Regulations, 1980 and the term "Clinical Waste" shall have the meaning assigned to it by " The Collection and Disposal of Waste Regulations 1988

This Disposal Licence took effect on 7 October 1993 and is issued subject to the following conditions:-

SECTION 1: ACCEPTABLE WASTES AND QUANTITIES

1.1 The type and quantity of waste in respect of which the deposit or use is authorised shall only be as follows:

Category of Waste	Maximum Storage
Household waste only	
Comprising A, B & C	250 Tonnes
Comprising D & E	0.1 Tonnes

1.2 Notwithstanding condition 1.1 above, the quantities of waste accepted shall not exceed the operational capacity of the facility.

1.3 Only household wastes as defined in The Controlled Waste Regulations 1992 shall be accepted at the site.

SECTION 2: SITE PREPARATION

2.1 At least one month prior to operations commencing, a working plan shall be submitted to the Waste Regulation Authority (WRA) showing how the facility is to be operated and the methods to be used in implementing these conditions.

2.2 The site shall be fenced with security fencing not less than 1.8 m high around the entire perimeter. Double steel gates shall be provided of similar height in the locations indicated in the working plan. Gates and fencing shall be maintained to the reasonable satisfaction of the WRA and all reasonable precautions taken to prevent unauthorised access.

2.3 The operational areas as detailed in the working plan, shall be surfaced in concrete or tar macadam. All surfaced areas shall be drained into oil/petrol interceptors of a design and in a location approved by the WRA.

2.4 Tanks used for the storage of waste oil shall be sited on an impervious base and bunded such that all valves, drain and fill pipes are contained and the bund shall have a capacity of 110% of the tank.

2.5 A site control office/messroom shall be provided with toilet and washing facilities and telephone.

2.6 A store shall be provided for tools, materials and equipment used on the site.

2.7 A site identification board of durable materials and finish shall be displayed at the site entrance showing, in letters not less than 25mm high, the name and telephone number of the site, the hours of opening, the name, address and telephone number of the Licensing Authority, telephone number, to contact outside normal opening hours in case of emergency.

2.8 Lighting shall be provided such that all operational areas are adequately lit during the hours of darkness. Adequately lit shall mean a 10 Lux average at ground level.

2.9 All containers, tanks, enclosures and other storage facilities shall be of an appropriate design and construction and be marked to show their contents.

SECTION 3: OPERATIONS

3.1 The quantity of waste accepted shall at no time exceed the cumulative capacity of the containers on the site.

3.2 All wastes shall be placed directly into the appropriate container. No wastes shall be stored other than in the appropriate container or enclosure as described in the approved working plan.

3.3 Wastes shall be segregated to maximise recycling potential and shall be placed in the container designated for that material.

3.4 A sealed, compartmentalised, waterproof, lockable container shall be provided for the storage of chemicals, pesticides or other dangerous substances brought to the site. The base of the container shall be lined with absorbent material suitable for the use with chemicals, to a depth of 75mm. The container shall be kept locked at all times other than when materials are being placed in or taken out of the container. Only the site operator and persons authorised by the WRA shall have access to the container. The container shall be marked 'CHEMICALS' and shall have the appropriate warning signs affixed in accordance with COSHH Regulations.

3.5 Incompatible chemicals and other dangerous substances placed in the chemical container shall be segregated according to their hazard. The chemical container shall be accommodated in a secure position as detailed on the approved working plan.

3.6 The chemical container shall not be allowed to become full. The WRA shall be notified in advance and where appropriate, in accordance with the Special Waste Regulations, when the chemical container is to be emptied, which in any event shall be at not greater than three monthly intervals.

3.7 Waste once placed in any container or compactor shall not be removed or sorted over except by the site operatives.

3.8 All waste containers shall be emptied in sequence as soon as practicable after they are filled but in any event within three working days.

3.9 The approaches to the site and operational area and general environs of the site shall be cleared of litter and fly tipped refuse daily. The site shall be kept in a clean and tidy condition at all times.

3.10 Any spillage on the site shall be immediately cleared up utilising absorbent material where appropriate. A supply of not less than 10 kg of absorbent material shall be kept on site at all times.

3.11 All compactors, containers, tanks and surfaced areas shall be washed down at least once a month to remove all excessive dirt and grease.

3.12 The facility shall be operated such that no smells or obnoxious odours are generated. In the event that odours inadvertently occur they shall be immediately dealt with by the methods stated in the working plan, such that the odour is eliminated within two hours.

3.13 No waste shall be burned within the boundaries of the site. A fire at the site shall be regarded as an emergency and immediate action shall be taken to extinguish it. Fire fighting equipment to the standard required by the Fire Safety Officer shall be provided at the site.

3.14 All equipment used on the site shall be kept in good repair and regularly serviced and used only in accordance with the manufacturer's instructions.

3.15 Staff and supervision shall be provided during all opening hours adequate to carry out all site operations, the requirements of these conditions and to direct and assist users of the site.

3.16 A copy of the site licence and operational procedures shall be displayed in the site control office.

3.17 A record shall be kept in the form required by the Controlled Waste (Duty of Care) Regulations of all waste materials removed from the site. A return shall be submitted quarterly to the WRA, on the form provided by the Authority, of all waste disposed of or recycled from the site.

3.18 In the case of chemicals or other dangerous substances brought to the site, a record shall be kept of the date, name, address and telephone number of the person delivering the waste also the nature and quantity of the waste. These records shall be returned to the WRA at least monthly.

3.19 The site shall be inspected daily for evidence of rodents or insects. Any infestation shall be immediately treated in accordance with the procedures detailed in the working plan such that the nuisance is eliminated.

3.20 The terms and conditions of this licence shall be made known to all persons who are given responsibility for the management or control of the site.

3.21 Operating hours will be as follows:-

0900 to 2000 hrs Mon - Sun, from 1 May to 30 Sept
0900 to 1700 hrs Mon to Sun, 1 October to 30 April
Except Christmas, Boxing and New Years Days

[redacted]

County Solicitor

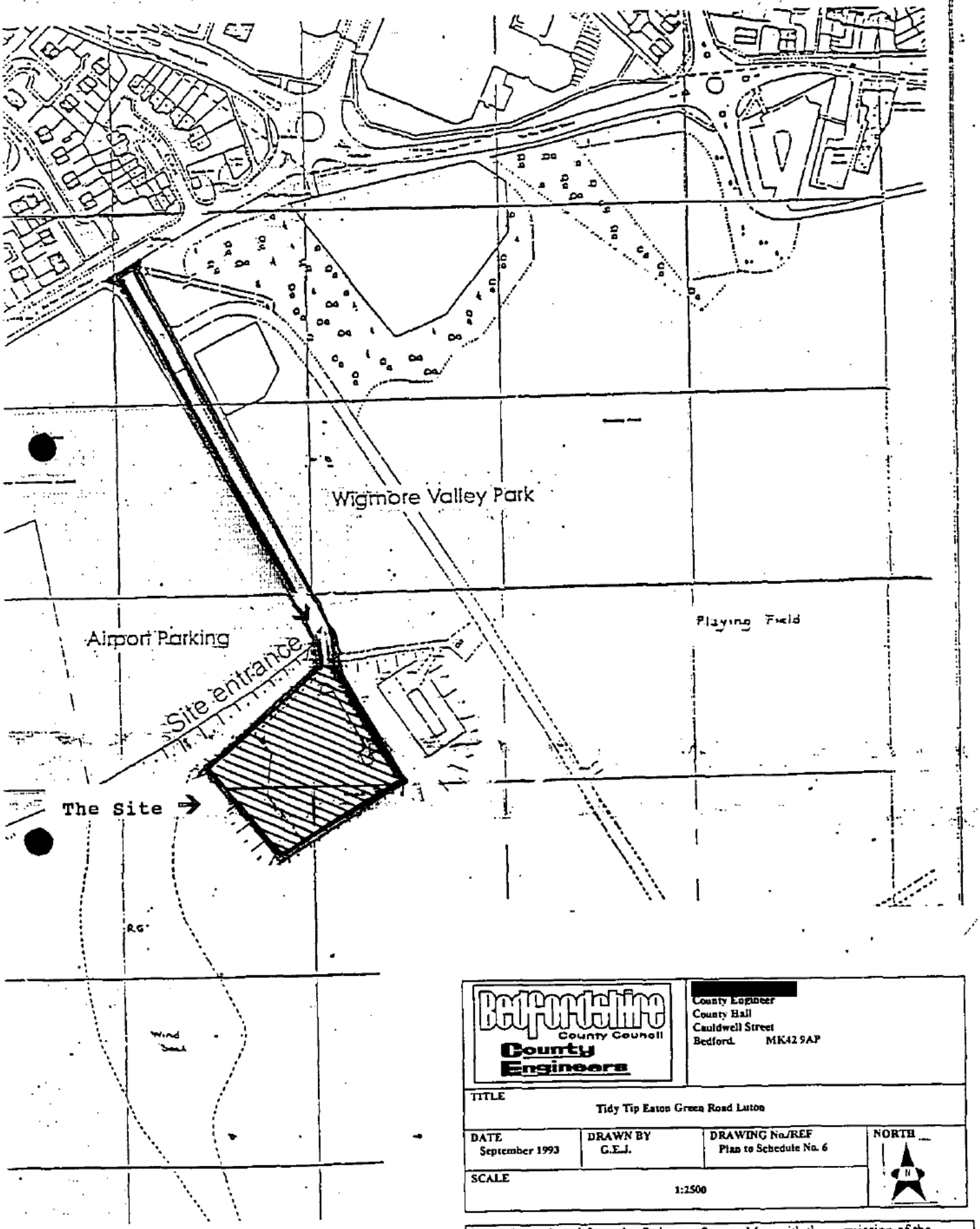
Dated 10 NOV 1993

Advisory Notes

i In the event of any accident resulting in the death or serious bodily injury to any person as a result of operations on the site, the licensee should notify the enforcing authority for the purposes of the Health and Safety at Work etc. Act 1974. In most cases this will be the Health and Safety Executive, but for offices, shops and distribution centres will be the Environmental Health Department of the Local Authority.

ii Any liquid discharge into watercourses and drainage systems requires the approval of the National Rivers Authority (Anglian Region).

iii In complying with the licensing provisions of the Control of Pollution Act 1974 the site occupier is not absolved from his responsibilities under other requirements of the Act and any other relevant legislation, including the Health and Safety at Work etc.Act, the Town and Country Planning Acts, the Public Health Acts, the Clean Air Acts, the Alkali etc. Works Regulations and Orders, the C.O.S.H.H. Regulations and the Environmental Protection Act 1990.



BEDFORDSHIRE County Council
County Engineers

[redacted]
County Engineer
County Hall
Cauldwell Street
Bedford. MK42 9AP

TITLE			
Tidy Tip Eaton Green Road Luton			
DATE September 1993	DRAWN BY G.E.J.	DRAWING No./REF Plan to Schedule No. 6	NORTH
SCALE 1:2500			

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Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

FCC Recycling (UK) Limited

Eaton Green Household Waste
Recycling Centre
Eaton Green Road
Luton
Bedfordshire
LU2 9HB

Variation application number

EPR/XP3597NS/V004

Permit number

EPR/XP3597NS

Eaton Green Household Waste Recycling Centre
Permit number EPR/XP3597NS

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

The permit has been varied to change the company name from Waste Recycling Limited to FCC Recycling (UK) Limited. The company registration number will not change.

The status log of a permit sets out the permitting history, including any changes to the permit reference number

Status log of the permit		
Description	**Date**	**Comments**
Licence Issued t[redacted]	10/11/93	Issued by Bedfordshire County Council
Modification	31/03/97	
Licence modified and transferred to [redacted]	29/10/98	
Licence modified and transferred to Luton Borough Council	31/05/2001	
Licence transferred to Waste Recycling Limited	17/07/06	
Modification	07/12/06	
Modification	30/03/07	
EPR/XP3597NS allocated		
Notified of change of company name	13/09/12	Name changed to FCC Recycling (UK) Limited
Variation issued EPR/XP3597NS/V004	27/09/12	Varied permit issued to FCC Recycling (UK) Limited

End of introductory note

Notice of variation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

permit number
EPR/XP3597NS

issued to
FCC Recycling (UK) Limited ("the operator")

whose registered office is

Ground Floor West
900 Pavilion Drive
Northampton Business Park
Northampton
NN4 7RG

company registration number **02674166**

to operate a regulated facility at

Eaton Green Household Waste Recycling Centre
Eaton Green Road
Luton
Bedfordshire
LU2 9HB

as follows

Change of operator name from Waste Recycling Limited to FCC Recycling (UK) Limited.

The notice shall take effect from 27/09/2012.

Name	Date
[redacted]	**27/09/2012**

Authorised on behalf of the Environment Agency

B2 Bedfordshire Archives and Record Services

Ltn 14/3/6F H1/X/14/3/6F

~~Joint Meeting of Policy & Resources and~~ Environmental Services Committee
13th January 1978
~~Subsequently~~
Agenda Item 3.

WASTE DISPOSAL – LUTON CIVIC AMENITY SITE

Report of ~~Chief Executive and~~ the County Surveyor

1. REASON FOR ~~REFERENCE~~ REPORT

The Policy & Resources Committee on 24 November referred back ~~the~~ Recommendation of the Environmental Services Committee that the Luton Civic Amenity Site at Luton should be withdrawn from the moratorium on Locally Determined Sector projects in the 1977/78 Capital Programme and that the scheme should go ahead. Virement and a Supplementary Estimate to meet the estimated cost were also required.

made at their 3rd meeting on 23 September 1977 (Minute

The Environmental Services Committee, whose Advisory Group had visited the site, prior to their further consideration on 28th October, determined at their meeting on 25 November to ask Policy & Resources Committee for a Special Meeting so that the Council at ~~their~~ its meeting on 15 December ~~may~~ could debate the subject. ~~(This procedure meets the requirements of Standing Order 49).~~

Insert A from attached letter

The Environmental Services Committee took the view that it was important that Council had the opportunity to consider the issues on the 15 December in view of the situation which would arise if no alternative arrangements were made before the Council's next meeting on February 23rd.

2. BACKGROUND

Civic Amenity Sites are provided under the Civic Amenities Act 1967 by Local Authorities for members of the public to deposit their own garden and domestic waste.

The Council's policy contained in the Waste Disposal Plan endorsed as a basis of the Council's Waste Disposal activity, has been to provide purpose built Civic Amenity Sites in the major urban areas. Phase I was to make provision for the Luton, Dunstable and Bedford areas, with provision in Ampthill, Leighton Buzzard and Biggleswade following in Phase II.

Sites in Dunstable (French's Avenue) and Bedford (Barkers Lane) were opened in 1975 and 1976 respectively. Both are extensively used.

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In Luton, a Civic Amenity Site has been operated by the Luton Borough Council (since 1974 as the County Council's Agent) at the Airport Waste Disposal site.

The Waste Disposal site at Luton Airport is now approaching completion and it is necessary to provide alternative facilities before the site closes on 31 March 1977.

~~the Joint Report of (County Surveyor/County Treasurer) to the meeting of the Committee on~~ 1977 is attached.

3. PRESENT FACILITY

As indicated above, the present facility for Civic Amenity waste in Luton is sited at the Luton Airport Waste Disposal site (tip) which is due to close in March 1978.

The present facility comprises an area set aside for waste adjacent to the tip where members of the public can ~~dump~~ dispose of their waste, which is then bulldozed on to the tip.

This arrangement has a number of serious disadvantages. Firstly, the access road is often inches deep in mud, smells and flies result from the uncovered waste [redacted] cause constant problems, including nuisance and assault on members of the public and Borough Council staff.

The conditions have become so unsatisfactory that a noticeable increase in roadside dumping has occurred.

The provision of a purpose built facility for Luton was programmed to follow Dunstable and Bedford, firstly to take full advantage of the Airport site, where Civic Amenity waste could be dealt with at a very economic ~~cheap~~ rate because of the adjacent tip and secondly, to allow a final decision to be reached on the Sundon disposal site which would take the place of the Luton Airport tip when this had been filled.

4. PROPOSED FACILITY

The Joint Report of the County Surveyor and County Treasurer to the Environmental Services Committee on 23 September is attached. It sets out the details of the proposals and the financial statement required to comply with Standing Order No. 44. - Appendix A.

From the alternative solutions considered the Environmental Services Committee, with the advice of the Luton Borough Council, decided that the purpose built provision was the correct solution.

In reaching this conclusion they were most concerned at the Capital cost and consequent Revenue costs and deferred a decision until their Advisory Group had made a site inspection.

The possibility of siting the Civic Amenity site at Sundon, thus reducing the Capital cost and the transport element which forms a large part of the Revenue cost, was debated at length.

The Committee were advised by the Borough Council that Sundon could only be considered in addition to Airport site rather than in place of it.

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The catchment areas were considered and the fact that dumping would continue uncontrolled if no provision is made at that ~~site~~ Airport site — see attached map – Appendix B

The Committee were also concerned at the commitment given to the Sundon Parish Council, when the decision to site the Waste Disposal site at Sundon was taken, that there were no proposals for a Civic Amenity Site at Sundon, with its attendant traffic problems.

~~The proposed~~ Layout of Hatfield Civic Amenity Site at Luton

~~To be attractive to users, a Civic Amenity site at Sundon would require to be sited in Common Lane which would be unacceptable to the residents. The distance to the cheaper and more acceptable alternative of a provision on the disposal site would deter users.~~

Airport is shown on the attached plan – Appendix C.

5. ACCESS ARRANGEMENTS AT SUNDON

At the Policy & Resources Committee meeting on 24 November comment was made on the access arrangement to the Sundon site which requires clarification.

In determining the Sundon Waste Disposal site, the Environmental Services Committee considered the access arrangements on a number of occasions. They finally decided that a short loop road to Common Lane was the correct solution, but instructed that negotiations should continue with APCM to see if a satisfactory agreement could be reached to use an access through the Cement Works which have recently been demolished. As no agreement could be anticipated by the time the Sundon site becomes operative early in 1978, work has proceeded towards the link road at Common Lane. There has been no change in this situation.

~~The attached plan shows the site at Sundon and access arrangements,~~ plus the APCM Cement Works route.

6. FINANCIAL IMPLICATIONS

The costs of alternative solutions are set out in the attached report to Environmental Services Committee.

If the scheme is to go ahead, the moratorium on 1977/78 LDS Capital Programme schemes will have to be waived. Authority for virement and a supplementary capital estimate are required.

The Capital Programme for 1977/78, now the subject of the moratorium made provision for the scheme in the sum of £53,000. Due to detailed design, increased costs of statutory undertakers, the total cost is now £84,000.

This sum would be covered as follows:-

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Capital Programme provision	£53,000
Virement of Site Reclamation Works not now able to proceed	£11,000
Supplementary Estimate	£20,000
Total Capital Cost	£84,000

The Revenue costs amount to £63 800 per annum.

It has to be accepted that once the Airport tip has closed Civic Amenity waste will cost a lot more to dispose of, once it is no longer possible to bulldoze the waste onto an adjacent tip. The conditions under which this is now done are not considered acceptable, nor possibe of implementing at Sundon

7. IMPLICATIONS

The Policy & Resources Committee's referral back would in the normal course of events mean that the matter could not reach the Council for determination under February 1978, which would leave five weeks in which to make alternative arrangements for March 31st when the Airport facility is due to close.

Discussions with Luton Borough Council will be necessary and any progress will be reported to the Committees orally.

8. ENVIRONMENTAL SERVICES COMMITTEE

At their meeting on 25 November, the Environmental Services Committee passed the following RECOMMENDATION

7. FURTHER CONSULTATIONS

Subsequent to the Policy + Resources Committee referral back, the Chairman and Vice Chairman of the Committee have discussed the matter with the Chairmen + Vice Chairmen of the appropriate Committees of the Luton Borough and South Bedfordshire District Councils

P.T.O.

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Both Councils expressed the view that a Civic Amenity site at Sundon would not be a satisfactory solution.

~~Luton Borough Council, being more directly affected~~

The Chairman of the Luton Borough Council Public Works Committee, Councillor [redacted] has written to the Chairman and a copy of her letter dated 30th November is attached - Appendix D.

The Chairman has invited [redacted] and the Borough Engineer, [redacted], to attend the meeting of the Committee and to take part in the discussion

8. RECOMMENDATION

1. That the Policy + Resources Committee be advised that this Committee has taken due note of the concern

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Hi/X/14/3/6F

County Surveyor

Waste Dispoal

445

FILE → 14/3/6

County Planning Officer

For the Attention of [redacted]

7/S/U3

14. October 1975

CIVIC AMENITY SITE, CADDINGTON

Further to your memo of the 3rd October the information you requested is as follows:-

General

The Waste Disposal Authority are required to provide facilities where the public may deposit their refuse. This facility has been provided up till now mainly at the entrance to land fill sites, however, many of the sites are now nearing completion and the new sites would be more remote from the urban areas.

The south of the County is particularly short of suitable land fill space, Blue Water site Houghton Regis has closed, French's Avenue, Dunstable will close in two months time, and Luton Airport in 18 months time. The volume of civic amenity refuse accepted at these sites is considerable, it is not considered convenient for the public to take their refuse to Sundon which is one of the chosen allocations for the new land fill site to replace those mentioned.

It is envisaged that the County as a whole will need some 14 civic amenity sites, four of these which will need to be in the south of the County. The following locations have been discussed with the appropriate District Councils and are considered suitable:-

French's Avenue Dunstable (utilisation of infilled land fill site) - serving north Dunstable and Houghton Regis.

Luton Airport (as above) - serving east Luton.

Caddington Site. Serving south Dunstable and central Luton and Caddington.

North Luton. Site location to be determined.

Shenley Hill (Land fill site) - serving Leighton Buzzard area.

Brogborough (Land fill site) - serving Aspley Guise, Cranfield and Lidlington areas.

Ampthill sewage works New site serving Ampthill and Flitwick.

Deepdale Potton (Land fill site) Serving Potton and Biggleswade.

Sandy (former land fill site) - serving Sandy area.

Barkers Lane Bedford New site - serving north and east Bedford.

Elstow (Land fill site) possible further site to serve south Bedford and Kempston.

Bromham (Land fill site) - serving Clapham, Bromham and west Bedford.

Shefford and Langford new site no location yet determined.

The present civic amenities facilities provided by the districts have become notorious, because of the scavenging, litter scatter and general untidiness of sites.

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H1/X/14/3/6F

BOROUGH OF LUTON

BOROUGH ENGINEER
[redacted]
TOWN HALL, LUTON LU1 2BQ

All communications should be addressed to the Borough Engineer

Tel: Luton 31291
S.T.D. 0582

My Ref: DFW/MRJ/C4/3 Your Ref: 14/3/68

When telephoning please ask for [redacted] Ext. [redacted]

6th May, 1977

Dear Sir,

Civic Amenity Site - Eaton Green
Road Refuse Tip

Further to my letter of 20th January, 1977, and your reply in February 1977 a layout of the Civic Amenity Site has been prepared and I now enclose two copies of Drawing 51044 for your comments.

The site including an area for future extension (coloured brown) is approximately 0.47 hectares in area. The first stage (coloured grey) can comfortably accommodate four compactors and the necessary skips, the extension will allow for three additional compactors as necessary. The width of the exit from the compactor area is narrower than that of the incoming road in order to encourage proper circulation of traffic but, on reflection, this width will have to be increased to allow for large collection vehicles. Areas required for services equipment and the storage of further skips could be adequately catered for in the area shown for parking. I understand that the use of a barrier on the inlet is proving unnecessary at similar sites in the County, perhaps you can comment on this.

My Council has given approval to the siting of a civic amenity site off Eaton Green Road on the site B as shown on Drawing 50920. This drawing has been amended to make site B comply with the layout drawing No.51044 and I include a copy with this letter.

With regard to the submission of a planning application under Regulation 4 of the Town & Country Planning Acts I assume you will be submitting this yourself after the detailed layout has your approval. Any necessary plans required can be supplied from this Department.

Further to the recent telephone conversation between [redacted], I also enclose four copies of Drawing No.51401 showing the location of the refuse tip. I understand these plans are is this so required in connection with the new refuse tip licensing procedure.

Yours faithfully,

[redacted]

Borough Engineer

[redacted]

County Surveyor,
County Hall,
Bedford.

COUNTY SURVEYORS DEPARTMENT
Date Received 10 MAY 1977
325 | For Action | Copy For Information
GC
File No. | Dealt with

ENCLOSURE
441

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BS/GM AS 1/1 10H/12/020/, 10F/1335/052

[redacted] 212

17th November 1975

Dear [redacted]

Birdstrike Hazards - Luton Airport

With reference to your letter of the 17th October, I have now had an opportunity of consulting the Airport Director on the terms of your letter and of considering in conjunction with the Airport Director the report submitted by the Pest Infestation Control Laboratory.

Dealing with the letter from the Department of the Environment of the 1st April 1971, this seems to me to be clearly concerned with the consultation procedure to be adopted at a time when an application for planning permission for the provision of a new refuse tip is under consideration. The refuse tip adjacent to the Airport has been in existence for many years and was not provided after the Department of the Environment's letter of 1971. Should there be a proposal in the future by a County Council who are, following local government reorganisation, the responsible authority for the provision of a new tip, I would hope that such County Council would consult this Council as Airport Authority. In this event this Council would, of course, pay very close attention to the advice given by the Department of the Environment and other interested parties.

As regards the existing tip, this has, as stated above, been in existence for many years. Although no final decisions have been taken there is considered to be only a limited tipping life left. This may be as short as two or three years but certainly at the present time it is oonsidered that tipping will have to cease in under five years at the maximum. Bedfordshire County Council are responsible for the provision of further refuse tips and I am aware that they are considering the question of the provision of additional tips throughout the county area. I note that the report of the Pest Infestation Control Laboratory draws attention to the incompatability of the close proximity of the Airport and the refuse tip and makes certain recommendations. However, the report does not, as far as I can ascertain, state that the existence of the refuse tip is a considerable danger to aircraft as is stated in your letter of the 17th October, and the Airport Director has commented to me that in his reports to the Civil Aviation Authority the birdstrike hazard has been defined as slight. Notwithstanding this, I would not wish to give any impression that the Council are unconcerned with the potential dangers inherent in a birdstrike nor that action is not being taken to deal with the problem.

[redacted]
Civil Aviation Authority
Directorate of Aerodrome Standards
Room 205
The Adelphi
John Adam Street
LONDON

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The question of replacing the refuse tip has been dealt with and I am forwarding a copy of this letter together with your letter of the 17th October to Bedfordshire County Council so that they can bear the problem in mind when considering the provision of further tips in the county and in particular the replacement tip which will in any event be required in the fairly near future.

As regards immediate action, the Airport Director informs me that bird distress broadcasting equipment is currently being constructed for which MAFF ornithologists have agreed to provide the various distress tapes. In addition, two signal pistols are being modified in order to accept bird scaring cartridges.

If you have any observations to make on this letter or feel that there is further action arising out of the report of the Pest Infestation Control Laboratory which the Council should consider taking at this time please let me know so that attention can be given to the matter.

Yours sincerely

Borough Secretary

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Civil Aviation Authority

Directorate of Aerodrome Standards
Room 205
The Adelphi
John Adam Street
London WC2N 6BQ
Telephone 01 836 1207 217 5408

your ref:

our ref: 10H/12/020
10F/1335/052

date: 17th October 1975

Borough Secretary
Borough of Luton
Town Hall
Luton LU1 2BQ

Dear Sir

BIRDSTRIKE HAZARDS - LUTON AIRPORT

We have very recently agreed a procedure with the Department of the Environment to control the development of refuse dumps, reservoirs, sewage disposal works and nature reserves or bird sanctuaries arising within an area 8 miles radius from an aerodrome and they are in the process of advising Local Planning Authorities of the details. Unfortunately the procedure is not retrospective so it could well be there are already sites in existence where no previous consultation has taken place and they could be causing a considerable danger to aircraft.

It has been reported that the "Luton Tip" (Grid Ref TL 118 218) could be such a hazard and from the report submitted by Messrs Norton and Rochard of the Pest Infestation Control Laboratory of the MAFF it is apparent that the existence of such a tip is a considerable danger to aircraft using Luton Airport. (Copies of the report were given to your [redacted] when he met the MAFF representatives on 1 October 1975).

Could you please advise me as to what steps are being taken to eliminate this hazard, both immediately and in the future. Also can you confirm whether any consultation was made with the Airport Authorities in accordance with the request made by the D of E in their circular to LPAs of 1 April 1971 under their reference PB1/736/17 in this instance.

Yours faithfully

[redacted]

32 65

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H1/X/14/3/6F

COUNTY COUNCIL AS LESSOR/LESSEE

TO: County Secretary	REFERENCES	
COPIES: County Treasurer; County Surveyor; Terrier; File	SERVICE DEPT.	Waste Disposal
	C.V. & E.O. DEPT.	ENV/8/22/1

COUNTY VALUER & ESTATES OFFICER'S REPORT ON TERMS PROVISIONALLY AGREED

SUMMARY OF PROPOSAL & STATUTORY AUTHORITY	**Lease of land for construction of a Civic Amenities Site**			
NAME AND ADDRESS OF LESSOR/LESSEE	**Luton Borough Council (Recreation Services Committee) Town Hall, Luton**			
AGENT AND ADDRESS	**Luton Borough Valuer 7, Gordon Street, Luton**			
SOLICITOR AND ADDRESS	**Luton Borough Secretary Town Hall, Luton**			
SITUATION AND DESCRIPTION OF THE PROPERTY AND WHERE RELEVANT, PRESENT CONDITION	**Land to the south east of Eaton Green Road, and to the east of the Airport, Luton.**			
DRAWING REF. AND PLOT NO.	PARISH	O.S. SHEET EDN. & NOS.	AREA	COMMUNITY LAND ACCOUNT TRANSACTION
SA 511	**Luton**		**Approx. 1.16 acre (0.47 ha)**	YES/NO IF YES, APPROPRIATION REPORT ATTACHED/TO FOLLOW
INTEREST HELD BY LESSOR/LESSEE	**Freehold**			
RIGHTS OF WAY EASEMENTS	**Right of access for vehicles and pedestrians to be granted along the existing driveway leading from Eaton Green Road, as shown coloured blue on plan**			
RESTRICTIVE COVENANTS RESERVATIONS ETC	**None disclosed**			
PUBLIC UTILITIES	**As existing**			

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INCIDENCE OF COSTS WITH AMOUNTS IF AGREED	SURVEYOR EACH PARTY TO BEAR OWN COSTS. SOLICITOR EACH PARTY TO BEAR OWN COSTS.
RENT	£200 p.a. QUARTERLY ADVANCE/
OTHER CHARGES	See attached Schedule
COLLECTED BY	Borough Treasurer
COMMENCING DATE	County Secretary to confirm
TERM	25 years
RENT REVIEWS	End of term and every subsequent fifth year
INSURANCE	/LESSEE
RATES	/LESSEE
REPAIRS	/LESSEE
NOTICE TO DETERMINE	-
SPECIAL CONDITIONS & OTHER INFORMATION FENCING	Please see attached Schedule.
COMMUNITY LAND ACT 1975 DISPOSAL OF LEASE WITH UNEXPIRED TERM OF NOT LESS THAN 7 YEARS	SECRETARY OF STATE CONSENT: N/A
COMMITTEE AUTHORITY	Environmental Services Committee - 28/10/77 & 25/11/77 - Standing Orders -
	THIS REPORT SHOULD NOT BE REGARDED AS VALID FOR A PERIOD IN EXCESS OF SIX MONTHS FROM THE DATE BELOW NOR IF THE CIRCUMSTANCES ARE ALTERED.
NOTIFIABLE TRANSACTION	YES/NO
DISTRICT VALUER NOTIFIED	YES/NO DATE: DATE:
VALUER INLS.	COUNTY VALUER & ESTATES OFFICER — DATE: 23 JAN 1978

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Lease of land for Civic Amenities Site Luton Airport

Schedule of Conditions

a) At each review date, the rent payable to be calculated at ten times the current market rent for agricultural land in the vicinity, of medium quality.

b) County Council to be responsible for all costs incurred by the Borough Council in the development of the land for the purposes of a civic amenities site, and thereafter to be responsible for its maintenance.

c) Borough Council to be responsible for the repair to the access road, with the County Council agreeing to meet the cost of repair and maintenance incurred by unreasonable user or by the County Council's default.

d) County Council to construct perimeter fencing and undertake any landscaping which may be required by the Borough Council as Local Planning Authority.

e) County Council to reserve the right to park heavy vehicles on the access road in connection with the civic amenities site.

[redacted]
County Valuer and Estates Officer

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There are at present a total of 7,200 spaces in all three long term car parks of which 2,100 spaces will be lost from Car Park No 3 to give a net availability of 5,100 spaces. The predicted future demand for spaces is given in the following table.

TABLE 6.6.3

Future Demand for Long Term Parking

Year	Number of Spaces	
	Calculated	Rounded
1995	11,370	14,000
2000	17,275	20,000
2005	25,285	29,000

NOTE: The above rounding of 15% upwards allows for possible present suppressed demand, not included elsewhere, and nominal spare capacity.

The resulting shortfall by the year 1995 will be 9,000 spaces. An area of 100,000 m^2 to the east of the terminal area has already been set aside, under the North-East Luton Local Plan, as an additional long-term car parking area. This could accommodate 4,500 vehicles, but there would still be a shortfall of 4,500 spaces in 1995. It may be therefore necessary, prior to 1995, to construct multi-storey parking for long term parkers unless additional land can be made available. A decision on this matter can be taken only after further more detailed consideration of planning policy, land availability, land prices and the elasticity of demand with respect to higher charges.

It is assumed for present planning purposes, however, that there will have to be a move towards the provision of multi-storey parking

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for long term parkers. It would be preferable, if it was decided to follow this course, to concentrate the whole of the long term facility at a single site to ensure efficient management arrangements and reduce uncertainty for parkers as to which car park will be available for use.

Of the existing and proposed car parking sites only the future site to the east of the terminal area would have the capacity to accommodate the indicated maximum demand . This will have relatively good road access. It is also some distance from the runway, thus avoiding height restrictions, unlike the existing car park number 8, and is away from existing housing thus avoiding visual instrusion, which could be an objection to development of car park number 9. It is understood however that the proposed location is an old land-fill site and the development of it for multi-storey parking could be more expensive than other sites.

It is clear, nevertheless, that whichever site is used a multi-storey car park for 5000 cars, possibly developed in stages, will be required by 1995 unless there is a significant change in modal access share by car mode.

6.6.5 Coach Parking

A possible future demand for parking up to 50 coaches in the terminal area has been indicated in a previous section. This demand would require a total length for coaches parked end to end of around 750M. It would not be practical to provide for this space requirement in the immediate terminal area, and consideration must be given, therefore, to the creation of a separate facility elsewhere in the terminal area, for at least part of this demand.

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Hi/X/14/3/6F

BOROUGH OF LUTON

[redacted]
BOROUGH ENGINEER

TOWN HALL, LUTON LU1 2BQ

All communications should be addressed to the Borough Engineer

Tel: Luton 31291
S.T.D. 0582

My Ref: BE/SC C4/3 Your Ref:

When telephoning please ask for [redacted] Ext. 240

28th January 1977

Dear [redacted]

Civic Amenity Sites

I understand that there is some pressure from the County Treasurer to locate the next Civic Amenity Site at Sundon Tip instead of at Luton Airport Tip.

No doubt the Treasurer has good reasons for this, but in my opinion, if a Civic Amenity Site is to serve Luton residents, there is little point in putting it at Sundon, as I am convinced that the majority of people currently using the Airport Tip Civic Amenity Site will fly-tip anywhere in Luton rather than travel to Sundon.

The existing site at the Airport Tip is in a terrible condition as it is such a poor facility [redacted]

There is a very urgent need to replace the current site with a proper facility and in my opinion there is an overwhelming case for the location of the facility to be maintained at the Airport Tip which is an established location, the need for which is well proven.

I am enclosing a plan showing possible alternative locations for such a site at the Airport Tip as requested by Mr. McLeod.

Yours sincerely,

[redacted]
Borough Engineer

Gave:
1) Details on the site you want.
2) Then let Valuer get a copy? he has already been in phone.
3) Please then let me have arrangements for design etc. I would like design done here — we will do it by Mar '78
4) PI keep me in picture. Progress required.
1/2/77

[redacted]
County Surveyor,
County Hall,
BEDFORD.

COUNTY SURVEYORS DEPARTMENT
Date Received: 28 FEB 1977

	For Action	For Information
[illegible]DCS	CS/DCS	
Improvements Division		
Maintenance Division	SM/EM	
Traffic Division		
Administration		
File No. 14/3/6F	Dealt With Date	

ENCLOSURE 42

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Minutes of Meeting of the Development Committee Thurs. 30th Jan. 1992

21033/D/M/1

5. Planning Issues

5.1 The Chief Planning Officer has stated that provided LIA Ltd. were applying to build the Cargo complex on the Company's own land such a building would be considered "operational" and thus fall within the 1988 Town & Country Planning General Development Order description of "Permitted Development". This means that the application, by letter rather than formal application, would not require a fee.

5.2 It was suggested that the plans to accompany the application should identify the area of our own facility and that to be used by other parties. The following should be included:-

Building heights, floor space and use of areas (both internal and external).

Decanting movements:	Monarch to H9 TNT from H125 to new facility Garrett to H125 Cargo from H9 to new facility
Vehicles:	Access, numbers and types
Aircraft:	Sizes (and differences to LAC operation); net effect of ATM's at design hour (LAC planning permission included 3700 ATM's/annum).
Contamination:	Site considerations; fuel spill interception; Methane from tip (membrane under foundation); statements on Glycol/Urea.
Car Parking:	Number of spaces lost from Car Park 9 and policy for replacement; employee areas.
Environment:	Lighting, landscaping, noise pollution etc.
Ownership:	of all areas proposed for use.

5.3 Timescales suggested were submission of draft application for comment in mid February and final application to go to Planning Committee on 15th April to be submitted 28 days before.

6. Airside/Airside Road

6.1 Section 9 of the Interim Development Report outlined the need for an Airside/Airside Road link, should:-

B3 Other Correspondence

Record of Verbal Communication

ARUP

Project title	Former Eaton Green Landfill	Job number	245580
Communication from	[redacted]	File reference	01
Organisation	Arup	Date of communication	7 November 2017
Telephone no			

Copy to [redacted] [redacted]

Record of communication — Action

The record below provides a summary of the key points from the meeting with [redacted] to discuss the former Eaton Green Landfill. Meeting held at Luton Borough Council Depot on 07/11/17.

Involvement with Eaton Green landfill?

Worked briefly at the landfill during the 1970s and worked for the waste department at Luton Council, where he was Head of Waste Management.

Waste disposal practice at Eaton Green landfill in the 1970s

The waste came in through the entrance at Eaton Green Road, it was then take to a weighbridge area which was by the current tidy tip area (see attached annotated map).There was no separation based on types of waste. There was a plan in the weighbridge building which showed the areas of the site and then the waste would be directed to different areas from that. Different areas of the site were bunded in a sort of primitive cell structure. The waste was then fanned out with by a bulldozer with a blade. No compaction of the waste material.

Cover Material

Cover material was placed across the waste, which was probably daily. No special measures in place for managing birds at the site.

The cover material was soils from construction projects around the town, for example the Arndale Centre. No shortage of cover material, it was stockpiled for use. No extraction occurred at the site to provide cover material.

Types of waste

During the 1970s the material there was predominately domestic waste, the commercial waste which was deposited there was domestic type waste. Local companies also deposited in the landfill. This included [redacted], who deposited trim materials at the site. There was also local engineering companies such [redacted] who used to be located in Ley Grove Road, Luton. There were manufacturers of ball bearings and waste such as oils/swarf were deposited at the site. The airport also used to deposit waste at the landfill. [redacted] later known as [redacted] also used the site for depositing waste. There was no designated areas for the industrial waste, it was mixed in with the rest of the waste. Other

Record of Verbal Communication

Project title	Job number	Date of Communication	Action
Former Eaton Green Landfill	245580	7 November 2017	

companies which deposited waste at the site were [redacted] who are a waste handling company who are still in operation.

Not thought that any material from [redacted] Chemical works was placed there as they had their own waste disposal facilities on their site. Waste from the remediation of [redacted] chemical works was thought to have been deposited at Brogborough landfill.

Period of deposition

1938 site opened and replaced an old landfill site in New Bedford Road.

On 1st April 1974 Bedfordshire County Council took over running the landfill, prior to that it had it had always been under Luton Borough Council. An agency type agreement was made with LBC for them to continue running the tip. The agreement was for 4 years and then in 1978 Sundon Landfill started to be used and Eaton Green landfill was closed.

However in early 1979 there was strike action and Sundon Landfill got picketed during the strike and refuse drivers couldn't access the landfill. So during this dispute waste was deposited at Eaton Green landfill for a period of about 6 weeks, approx. 2,000 tonnes. This was deposited in the area which is now the long stay car park, towards the tidy tip end.

The site has a cap across the site of 0.5-1.0m made of clayey material, which was across the 1970s area of waste after closure. Not sure if older part of landfill was capped.

Scrapyard

Recollection of the scrapyard was that it was not that well run, whole cars were often buried at the landfill.

Also near to the scrapyard was the street cleansing area so possibility for oils there.

Drain through the middle of the landfill

Not aware of the drain. [redacted] shared information he had obtained which was that it is for the soakaways to the north of the landfill and is an overflow pipe. He had an anecdotal account [redacted] (LLOAL contractor) that they had been doing maintenance on the pipe and there was an explosion. After this manhole covers were installed with ventilation holes. The time period when this incident occurred is unknown and unverified.

Any issues with leachate coming out of the landfill in past

Not thought to be any issue with leachate.

What records were kept?

[redacted] can assist in accessing and finding records in archive

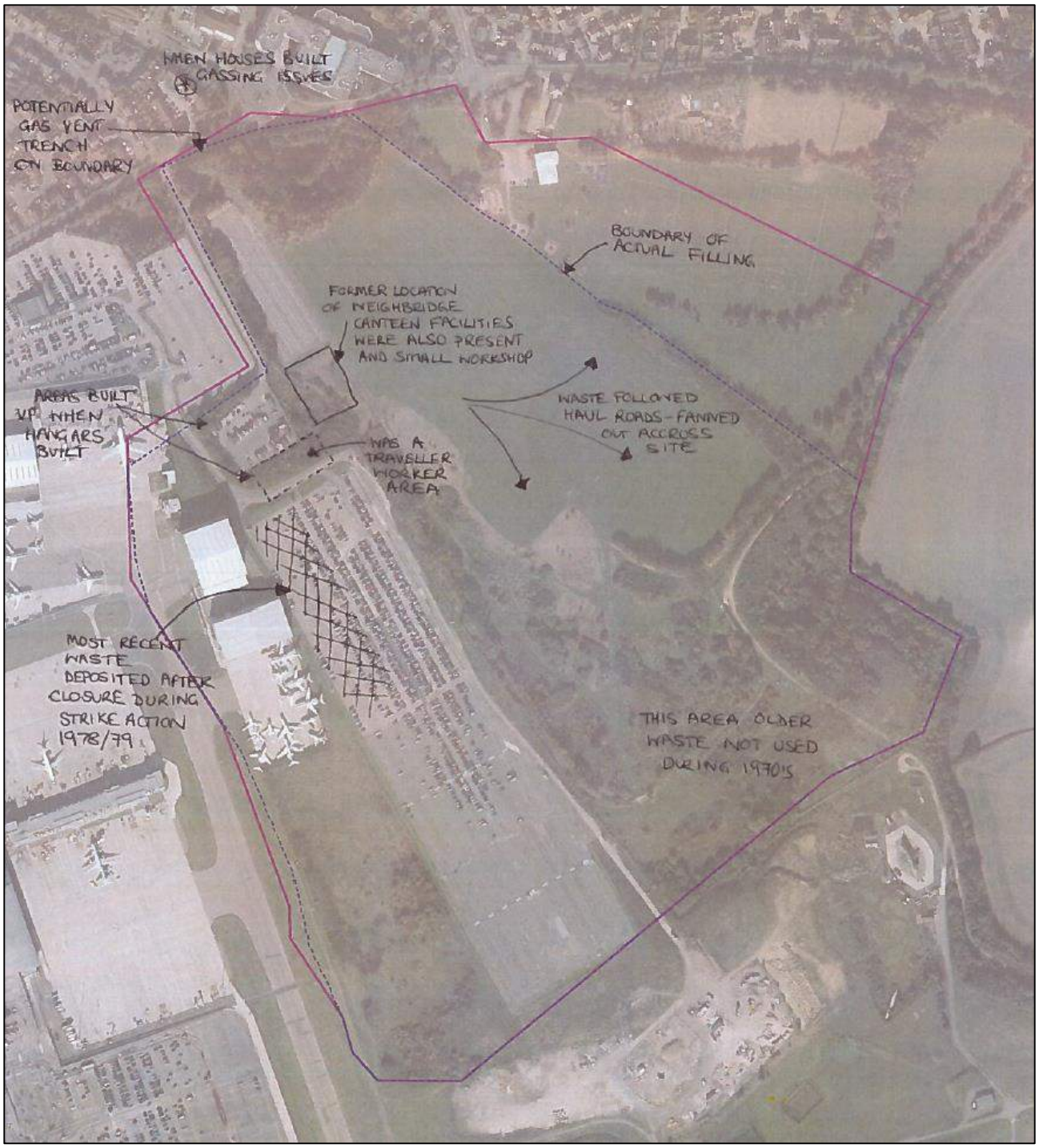
There is an archive vault in the town hall which could have records. Not a well organised archive and difficult to find records in it. Not a lot of people aware it exists.

Control/venting of gas?

No provision for gas venting were put in place for the landfill after closure. There was an issue with gas after houses (Keeble Close) were built to the north, with gases in the gardens. A gas venting trench with gravel was installed at the site. Exact location of trench unknown.

Record of Verbal Communication

Project title	Job number	Date of Communication	Action
Former Eaton Green Landfill	245580	7 November 2017	

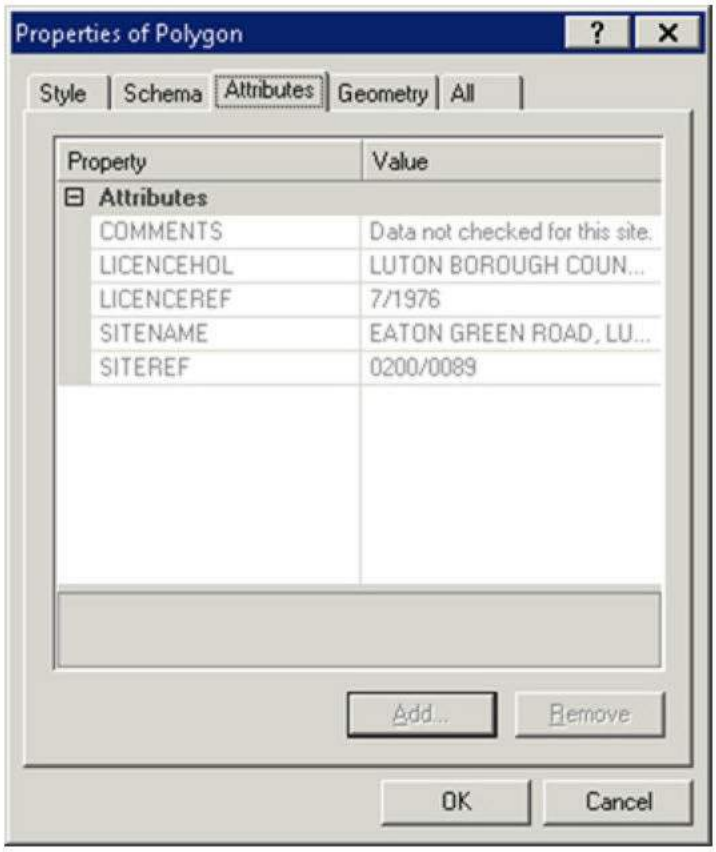


[redacted]

From: [redacted]
Sent: 25 April 2016 12:46
To: [redacted]
Subject: RE: Enquiry regarding Eaton Green Road Landfill

Dear [redacted]

Apologies if this was sent through already. The below polygon entry from our GIS suggests Eaton Green is a legacy site that South Beds were at least aware of, from their own legacy days as Luton Rural. However I still can't find any further historic documentation about this feature, but understand from colleagues that any information that may have been lost probably did not contain any significant detail of possible landfill content etc.
Apologies for not being able to assist any further.



Regards

[redacted]

[redacted]
Public Protection Officer
Contaminated Land - Pollution Team

Central Bedfordshire Council [redacted]

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From: [redacted]
Sent: 07 April 2016 11:09
To: [redacted]
Subject: RE: Enquiry regarding Eaton Green Road Landfill

Dear [redacted]

Thank you for your request for information relating to the above site. The Environmental Information Regulations 1992 permit local authorities to levy a reasonable charge for sourcing and supplying information held by them, providing the information is not already available under an existing statutory provision.

Central Bedfordshire Council therefore charges £94.00 (no VAT) for undertaking such a search. Cheques should be made payable to Central Bedfordshire Council and referenced on the reverse with 'Eaton Green Road Landfill'..

Trading Standards separately carry out any petroleum searches on tanks and decommissioning etc. and also charge £94.00, payable as above upon request.

On receipt of a cleared cheque for the correct total amount, or payment by card on 0300 300 8136, responses to your enquiries will be sent within 10 working days maximum, but probably much sooner.

Regards

[redacted]

[redacted]
Public Protection Officer
Contaminated Land - Pollution Team

Central Bedfordshire Council [redacted]

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*Information security definitions:
Restricted - Sensitive Data only to be sent via secure email
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From: [redacted]
Sent: 06 April 2016 15:43
To: [redacted]
Subject: FW: Enquiry regarding Eaton Green Road Landfill

Dear [redacted]

As per my previous email, please could you let me know the arrangements for paying the fee for searching the records for information on the former Eaton Green Road landfill.

Many thanks,

Best regards,

[redacted]

[redacted]

[redacted]

[redacted]
[redacted]
[redacted]
f +44 (0) 121 213 3001
www.arup.com

From: [redacted]
Sent: 10 March 2016 09:43
To: [redacted]
Subject: RE: Enquiry regarding Eaton Green Road Landfill

Dear [redacted]

Thank you for your email. The former Eaton Green Road landfill is land belonging to Luton Borough Council, however they hold no records. We were informed that it may have been managed by one of the predecessor councils to Central Bedfordshire Council. We have already made enquiries with the Environment Agency and Bedfordshire Archives, they do not hold any records either. We would be more than happy to pay the £94 fee if you think it would be worth making further internally enquires? Please let me know the arrangements for paying the fee.

Many thanks,

Best regards,

[redacted]

[redacted]
BSc MSc MPH MCIWEM C.WEM CSci CEnv

[redacted]
[redacted]
[redacted]
f +44 (0) 121 213 3001
www.arup.com

From [redacted]
Sent: 08 March 2016 11:13
To: [redacted]
Subject: RE: Enquiry regarding Eaton Green Road Landfill

Dear [redacted]

From what we can find, that feature is on the EA records as being run by Luton County Borough Council.

If you need me to make more enquiries internally, there will be a £94.00 fee payable.

Regards

[redacted]

[redacted]
Public Protection Officer
Contaminated Land - Pollution Team

Central Bedfordshire Council [redacted]
[redacted]

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From: [redacted]
Sent: 08 March 2016 10:54
To: Pollution
Cc: [redacted]
Subject: Enquiry regarding Eaton Green Road Landfill

Dear Sir/Madam,

We are assisting Luton Borough Council with possible options for the expansion of Luton Airport. We are trying to obtain information on an historical landfill called Eaton Green Road Landfill which we understand from Luton Council was managed by Central Bedfordshire Council at one point in time? Attached is a map of the location of Eaton Green Road Landfill.

We are looking to obtain copies of any records of site investigation reports, gas and groundwater monitoring for the landfill which you may have. In addition any closure reports or other information relating to the condition of the landfill.

Many thanks,

Best regards,

[redacted]

[redacted]
Senior Contaminated Land Specialist | Geotechnics
BSc MSc MPH MCIWEM C.WEM CSci CEnv

[redacted]
[redacted]
[redacted]
f +44 (0) 121 213 3001
www.arup.com

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[redacted]

From: [redacted]
Sent: 11 February 2016 13:38
To: [redacted]
Subject: Enquiry regarding an old site investigation report

Dear Sir/Madam,

We are trying to track down a copy of a report for a client (Luton Borough Council) which we believe a company that [redacted] acquired undertook for them. It was by [redacted] (November 1991) Site Investigation on Eaton Green Road Landfill, Luton. The client cannot locate their copy and has asked us to make enquiries. It's a bit of a long shot but would this report would be in your archives at all? And if so would it be possible to obtain a copy?

Many thanks,

Best regards,

[redacted]

[redacted]
Senior Contaminated Land Specialist | Geotechnics
BSc MSc MPH MCIWEM C.WEM CSci CEnv

[redacted]

[redacted]

From: [redacted]
Sent: 08 March 2016 10:10
To: [redacted]
Subject: RE: Former Eaton Green Road landfill, Luton Airport

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[redacted]

I have had a look at our records but have not been able to find any relevant information.

Not sure where you could try next, our major projects team are working on the schemes at the airport but I understand they do not have any further information

Regards

[redacted]

[redacted]
Strategic Waste Manager
Luton Borough Council

[redacted]

From: [redacted]
Sent: 03 March 2016 13:58
To: [redacted]
Subject: FW: Former Eaton Green Road landfill, Luton Airport

Dear [redacted]

You may recall that I previously contacted you about the Former Eaton Green Road Landfill. We are still undertaking some work on the site and I wondered whether you were able to locate any records at all? As I recall you were going to have a look but you thought it might take some time?

Many thanks,

Best regards,

[redacted]

[redacted]
Senior Contaminated Land Specialist | Geotechnics
BSc MSc MPH MCIWEM C.WEM CSci CEnv

[redacted]

From: [redacted]
Sent: 20 October 2015 10:33
To: [redacted]
Cc: [redacted]
Subject: Former Eaton Green Road landfill, Luton Airport

Dear [redacted],

[redacted] in Environmental Health suggested I contact you with regards to information on the former Eaton Green Road landfill at Luton Airport. [redacted] was unable to locate any information in the achieves but he mentioned that you might have some black and white photographs? Any information you have would be really helpful. If you could let me know any costs involved with obtaining copies of any information you may have that would be great.

Many thanks,

Best regards,

[redacted]

[redacted]
Senior Contaminated Land Specialist | Geotechnics
BSc MSc MPH MCIWEM C.WEM CSci CEnv

[redacted]

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Appendix C – Draft Proposed Design for Highway Intervention

Junction No.	Junction Name	2020 (Base)				2027				2039				2043			
		18mppa				21.5mppa				27mppa				32mppa			
		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)	
		Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.
1	A505 / Stopsley Way	No change to existing highway layout (LLAL have permission for development to 18mppa)				LBC Scheme	-	LBC Scheme	-	LBC Scheme	-	LBC Scheme	-	LBC Scheme	-	LBC Scheme	-
2	Hitchin Road / Ramridge Road					SK018	4	SK018	4	SK018	4	SK018	4	SK018	4	SK018	4
3	A505 Vauxhall Way / Crawley Green Road					LBC Scheme	-	LBC Scheme	-	LBC Scheme	-	LBC Scheme	-	LBC Scheme	-	LBC Scheme	-
4	Wigmore Lane / Crawley Green Road					-	-	-	-	-	-	SK035	4	-	-	SK035	4
5	Eaton Green Road / Wigmore Lane					-	-	-	-	-	-	SK036	4	-	-	SK036	4
6	Eaton Green Road / Lalleford Road					-	-	SK023	5	-	-	SK023	5	-	-	SK023	5
7	Eaton Green Road / Frank Lester Way					-	-	-	-	-	-	SK016	6	-	-	SK016	6
8	A505 Vauxhall Way / Eaton Green Road					LBC Scheme	-	SK013	5	LBC Scheme	-	LBC Scheme	-	LBC Scheme	-	LBC Scheme	-
9	Windmill Rd / Manor Rd / St. Mary's Rd / Crawley Green Rd					SK017	5	SK017	5	SK017	5	SK027	5	SK017	5	SK027	5
10	A1081 New Airport Way / Kimpton Road / Vauxhall Way					LBC Scheme	-	LBC Scheme	-	LBC Scheme	-	SK022	6	LBC Scheme	-	SK022	6
11	A1081 New Airport Way / B653 / Gipsy Lane					SK011	6	SK021	7	SK011	6	SK021	7	SK011	6	SK021	7
12	Windmill Road / Kimpton Road					SK010	5	SK020	7	SK010	5	SK020	7	SK010	5	SK020	7
13	A1081 / London Road (North)					-	-	SK026	5	-	-	SK026	5	-	-	SK026	5
14	A1081 / London Road (South)					-	-	-	-	-	-	SK026A	2	-	-	SK026A	2
15	M1 J10					-	-	SK031	7	-	-	SK032 / 32A	3	SK044 / 44A	5/6	SK044 / 44A	5/6
16	Crawley Green Road / Lalleford Road					-	-	-	-	-	-	SK034	4	-	-	SK034	4

CPAR Junction No.	Junction Name	2020 (Base)				2027				2039				2043			
		18mppa				21.5mppa				27mppa				32mppa			
		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)	
		Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.
1	A1081 New Airport Way / CPAR / Percival Way	No change to existing highway layout (LLAL have permission for development to 18mppa)				NO CPAR WORKS AT 23MPPA		SK019	3	-	-	SK019A	5	-	-	SK019A	5
2	CPAR / Provost Way							-	-	-	-	SK019B	3	-	-	SK019F	1
3	CPAR / Frank Lester Way							-	-	-	-	SK019C	2	-	-	SK019G	1
4	CPAR / Eaton Green Road Link							-	-	-	-	SK019D	2	-	-	SK019D	2
5	CPAR Alignment							-	-	-	-	SK019E	3	-	-	SK019H	1

Hitchin Junction No.	Junction Name	2020 (Base)				2027				2039				2043			
		18mppa				21.5mppa				27mppa				32mppa			
		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)		Do Minimum (No Airport Dev.)		Do Something (With Airport Dev.)	
		Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.	Drawing	Rev.
1	A505 / Upper Tilehouse Street	No change to existing highway layout (LLAL have permission for development to 18mppa)				-	-	-	-	-	-	SK040	4	-	-	SK040	4
2	A602 Park Way / Upper Tilehouse St					-	-	-	-	-	-	SK041	4	-	-	SK041	4
3	A602 Park Way / Stevenage Road / Hitchin Hill					-	-	-	-	-	-	SK042	4	-	-	SK042	4

Notes:

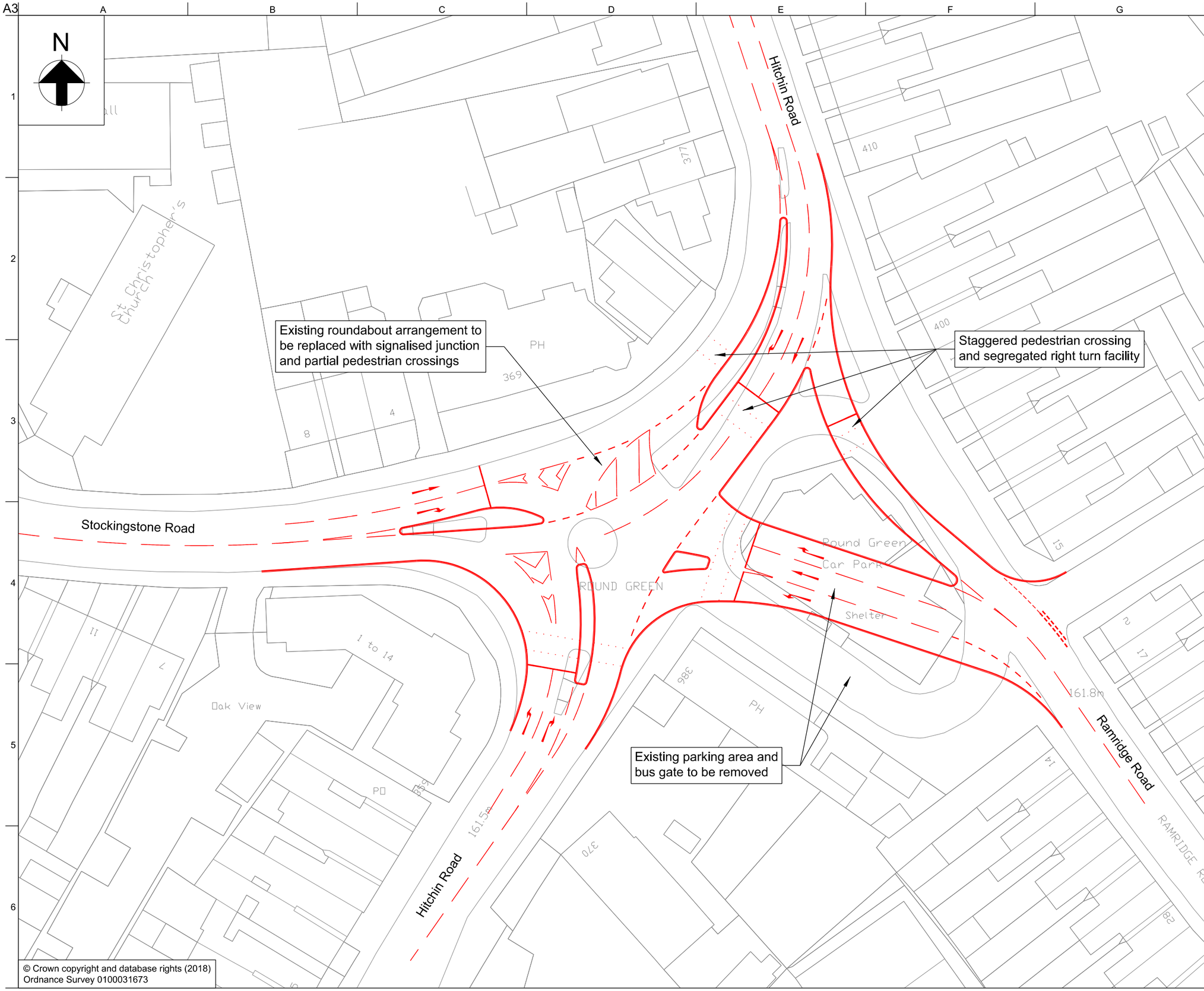
1. SK022 BASED ON LBC SCHEME WITH FURTHER WIDENING TO SOUTH-WEST OF JUNCTION
2. SK013 BASED ON LBC SCHEME WITH PARTIAL SIGNALISATION

26th July 2021

2027 (21.5mppa) Do Minimum

(No Airport Development)

A3



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Key:

Proposed Works

Issue	Date	By	Chkd	Appd
04	24/05/21	NS	JO	JO
	Minor Amendments			
03	11/09/20	NS	JO	JO
	Minor Amendments			
02	29/01/19	NS	JO	JO
	Minor Amendments			
01	10/09/18	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Hitchin Road / Ramridge Road

- 2027 (21.5mppa Do Minimum)

Scale at A3 1:500

Discipline Transport Planning

Job No **259393-10**

Drawing Status **Information**

Drawing No **SK018**

Issue **04**

J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK018.dgn

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A3

A B C D E F G

1 2 3 4 5 6

N

White lining amendments to introduce short length of ghost island right turn lane into Manor Road

Manor Road

Windmill Road

WINDMILL ROAD

MANOR ROAD

BOLTON ROAD

GLOUCESTER ROAD

Windmill Trading Estate

Manor Road Park

Sports Court

Playground

Gloucester House 1 to 44

ST MARY'S ROUNDABOUT

Subway

River Lea

River Lea or Lea

LUTON DUNSTABLE BUSWAY

105.5m

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Key:

Proposed Works

Issue	Date	By	Chkd	Appd
05	24/05/21	NS	JO	JO
Minor Amendments				
04	21/09/20	NS	JO	JO
Minor Amendments				
03	29/01/19	NS	JO	JO
Minor Amendments				
02	10/09/18	NS	JO	JO
Minor Amendments				
01	13/06/18	NS	JO	JO
First Issue				

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London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Windmill Road / Manor Road

- 2027 (21.5mppa Do Minimum)

Scale at A3: 1:1000

Discipline: Transport Planning

Job No: **259393-10**

Drawing Status: **Information**

Drawing No: **SK017**

Issue: **05**

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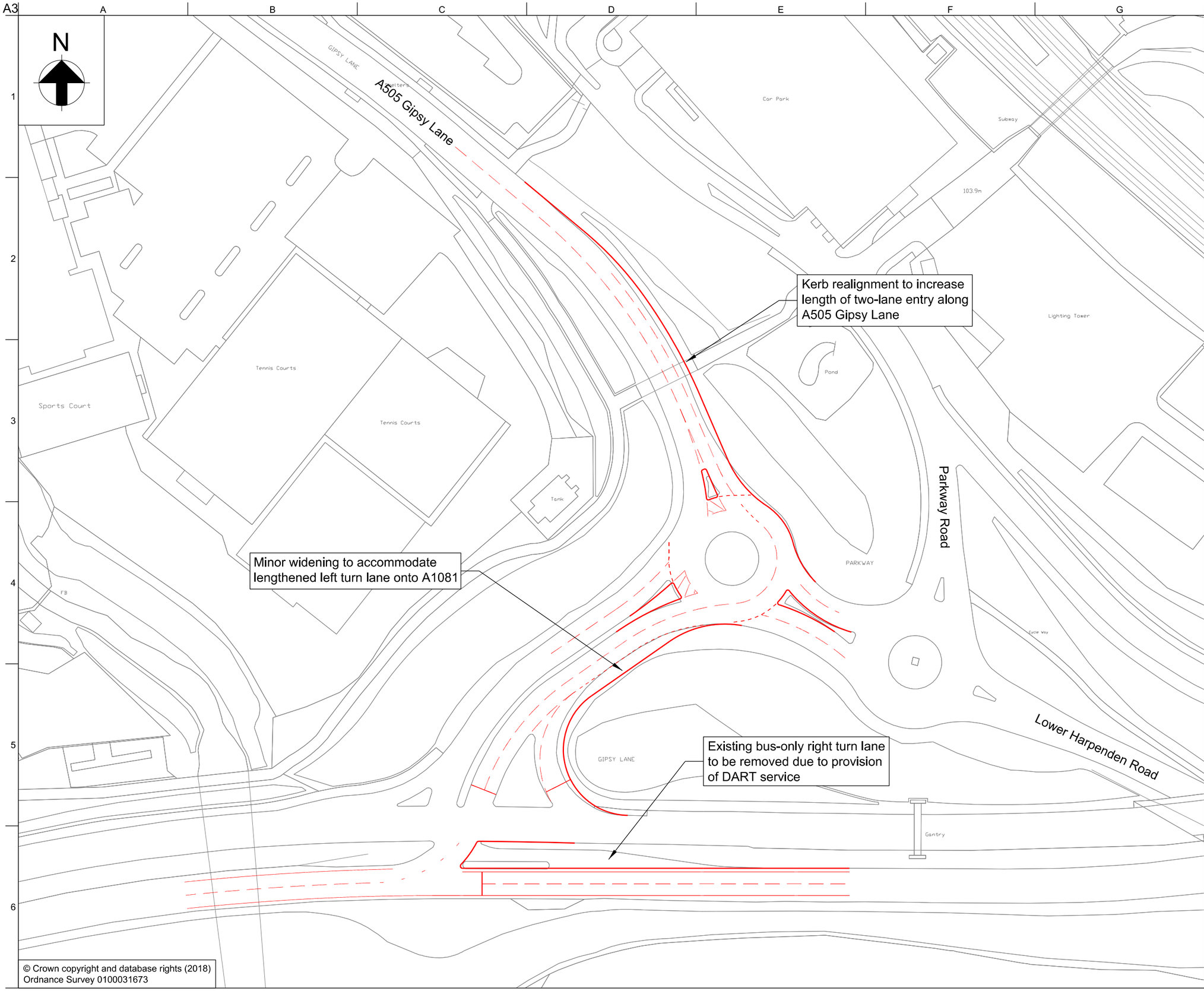
A3



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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
06	24/05/21	NS	JO	JO
Minor Amendments				
05	05/10/20	NS	JO	JO
Right Turn Lane Removed				
04	29/09/20	NS	JO	JO
Minor Amendments				
03	29/01/19	NS	JO	JO
Minor Amendments				
02	10/09/18	NS	JO	JO
Minor Amendments				
01	13/06/18	NS	JO	JO
First Issue				

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London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

A505 Gipsy Ln / Parkway Rd

- 2027 (21.5mppa Do Minimum)

Scale at A3: 1:1000

Discipline: Transport Planning

Job No: **259393-10**

Drawing Status: **Information**

Drawing No: **SK011**

Issue: **06**

J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK011.dgn

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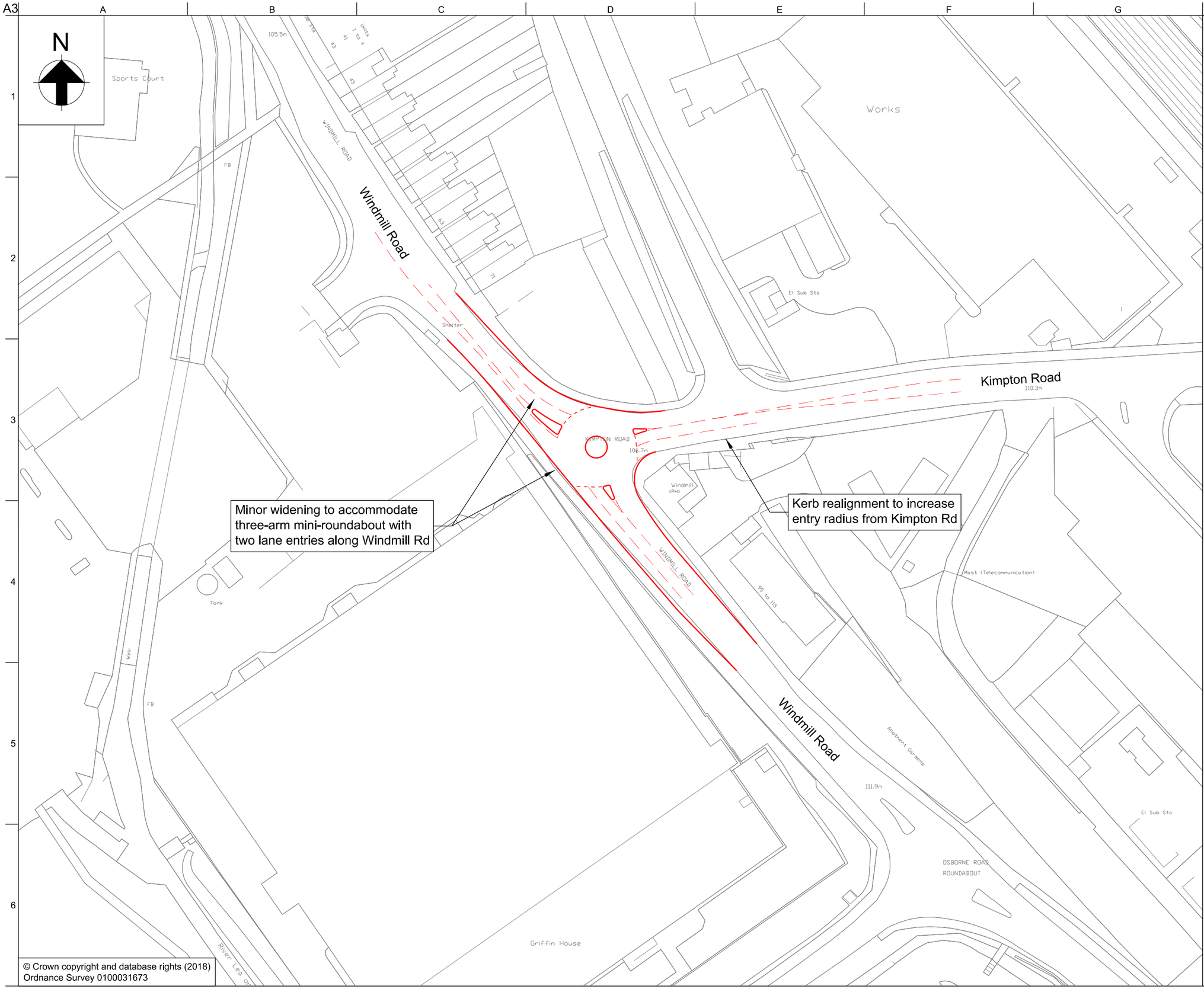
A3



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Key:

Proposed Works

Issue	Date	By	Chkd	Appd
05	24/05/21	NS	JO	JO
Minor Amendments				
04	29/09/20	NS	JO	JO
Minor Amendments				
03	29/01/19	NS	JO	JO
Minor Amendments				
02	10/09/18	NS	JO	JO
Minor Amendments				
01	13/06/18	NS	JO	JO
First Issue				

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Windmill Road / Kimpton Road

- 2027 (21.5mppa Do Minimum)

Scale at A3 1:1000

Discipline Transport Planning

Job No **259393-10**

Drawing Status **Information**

Drawing No **SK010**

Issue **05**

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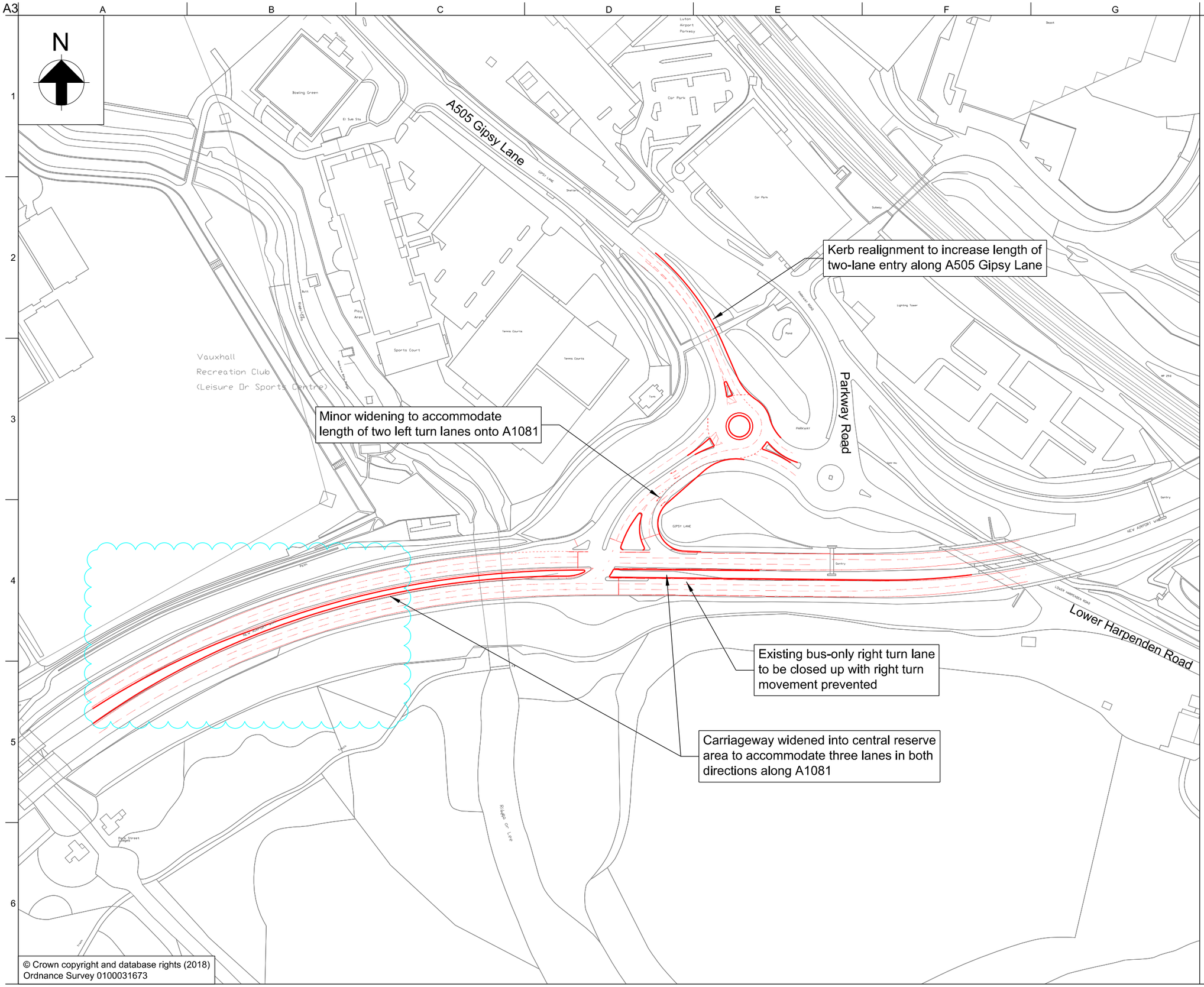
2027 (21.5mppa) Do Something

(With Airport Development)

A3



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Key:

Proposed Works

Issue	Date	By	Chkd	Appd
07	16/07/21	NS	JO	JO
	Minor Amendments to Lane Gain			
06	24/05/21	NS	JO	JO
	Minor Amendments			
05	11/09/20	NS	JO	JO
	Minor Amendments			
04	06/08/19	NS	JO	JO
	Minor Amendments to Frame			
03	17/06/19	NS	JO	JO
	Amendments to A1081			
02	29/01/19	NS	JO	JO
	Minor Amendments			
01	13/06/18	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

A505 Gipsy Ln / Parkway Rd

- 2027 (21.5mppa Do Something)

Scale at A3 1:1500

Discipline Transport Planning

Job No **259393-10**

Drawing Status **Information**

Drawing No **SK021**

Issue **07**

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A3

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Key:

- Proposed LLA Works
- LBC Proposed Vauxhall Way Scheme

Issue	Date	By	Chkd	Appd
05	16/07/21	NS	JO	JO
	Partial Signalisation Added			
04	29/01/19	NS	JO	JO
	Minor Amendments			
03	06/11/18	NS	JO	JO
	Vauxhall Way Dualled			
02	10/09/18	NS	JO	JO
	Minor Amendments			
01	13/06/18	NS	JO	JO
	First Issue			

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Client: London Luton Airport Ltd, A Luton Council company

Job Title: Luton Masterplan

A505 Vauxhall Way / Eaton Green Road

- 2027 (21.5mppa Do Something)

Scale at A3: 1:1000

Discipline: Transport Planning

Job No: **259393-10**

Drawing Status: **Information**

Drawing No: **SK013**

Issue: **05**

J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK013_ss.dgn

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A3

N

Windmill Road

Kimpton Road

Minor widening to accommodate three-arm signalised junction with two lane entries along Windmill Rd

Kerb realignment to increase entry radius from Kimpton Rd

Minor kerb realignment to allow two southbound lanes on approach to Osborne Road roundabout

Minor widening to provide two-lane exit from Osborne Road roundabout

Proposed works tie into widening / realignment to Gipsy Lane and Luton Retail Park access to south-east of this point (as per LBC proposals)

Windmill Road

Osborne Road

Gipsy Lane

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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
07	16/07/21	NS	JO	JO
Minor Amendments to Gipsy Lane				
06	24/05/21	NS	JO	JO
Minor Amendments				
05	16/11/20	NS	JO	JO
Amendments to Windmill Rd				
04	11/09/20	NS	JO	JO
Minor Amendments				
03	07/02/19	NS	JO	JO
Minor Amendments				
02	29/01/19	NS	JO	JO
Minor Amendments				
01	01/10/18	NS	JO	JO
First Issue				

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Windmill Road / Kimpton Road

- 2027 (21.5mppa Do Something)

Scale at A3 1:1000

Discipline Transport Planning

Job No **259393-10**

Drawing Status **Information**

Drawing No **SK020**

Issue **07**

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A3

N

London Road

Roundabout to be partially signalised to accommodate traffic flows

Proposed Newlands Park access road

Yellow box markings to ensure entry to roundabout is kept clear

Widening to entry and exit of roundabout to accommodate additional lengths of two lane operation

Spiral markings to be introduced to improve lane discipline in conjunction with signage

Widening to roundabout circulatory to provide free-flow diverge onto A1081

Roundabout to be partially signalised to accommodate traffic flows

NORTH ROUNDABOUT

GP

Gantry

London Road

LONDON ROAD

A1081 New Airport Way

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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
05	24/05/21	NS	JO	JO
	Minor Amendments			
04	16/11/20	NS	JO	JO
	Amendments to London Road			
03	11/09/20	NS	JO	JO
	Minor Amendments			
02	29/01/19	NS	JO	JO
	Minor Amendments			
01	01/10/18	NS	JO	JO
	First Issue			

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Client

Job Title
Luton Masterplan

A1081 / London Rd (North)

- 2027 (21.5mppa Do Something)

Scale at A3
1:1000

Discipline
Transport Planning

Job No
259393-10

Drawing Status
Information

Drawing No
SK026

Issue
05

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A3

Length of two lane merge increased by approx. 150m above existing

Two northbound lanes merge into one

Three lanes merge into two before segregated left turn lane joins from M1 southbound

White lining amendments and widening to provide four circulatory lanes, allowing two northbound lanes onto M1 and three eastbound lanes onto A1081 from M1

Northbound off-slip to be widened to provide three lanes on approach to circulatory

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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
07	24/05/21	NS	JO	JO
	Minor Amendments			
06	11/09/20	NS	JO	JO
	Minor Amendments			
05	08/07/19	NS	JO	JO
	Junction Layout Amended			
04	30/01/19	NS	JO	JO
	Junction Layout and Year Amended			
03	04/12/18	NS	JO	JO
	Merge Layout Amended			
02	06/11/11	NS	JO	JO
	Junction Layout Amended			
01	13/06/18	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

A1081 New Airport Way / M1
Junction 10
- 2027 (21.5mppa Do Something)

Scale at A3 N.T.S.

Discipline Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK031	**07**

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J:\259300\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK031.dgn

A3

A B C D E F G

1 2 3 4 5 6

N

Charlotte's Court

Tank

156.7m

155.8m

El Sub Sta

PERCIVAL WAY

Percival Way

Hotel

Hotel

Blush House
(Hotel)

SPITTLESEA ROAD

Shelter

Shelter

Shelter

A1081

Roundabout replaced with signalised junction, largely as per 27mppa arrangement which allows subsequent incorporation of CPAR. Junction designed to minimise abortive works

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Do not scale

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J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK019.dgn

Issue	Date	By	Chkd	Appd
03	24/05/21	NS	JO	JO
	Minor Amendments			
02	29/01/19	NS	JO	JO
	Minor Amendments			
01	13/06/18	NS	JO	JO
	First Issue			

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www.arup.com

Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

CPAR / A1081 Airport Way / Percival Way Junction

- 2027 (21.5mppa Do Something)

Scale at A3

1:1000

Discipline

Transport Planning

Job No

259393-10

Drawing Status

Information

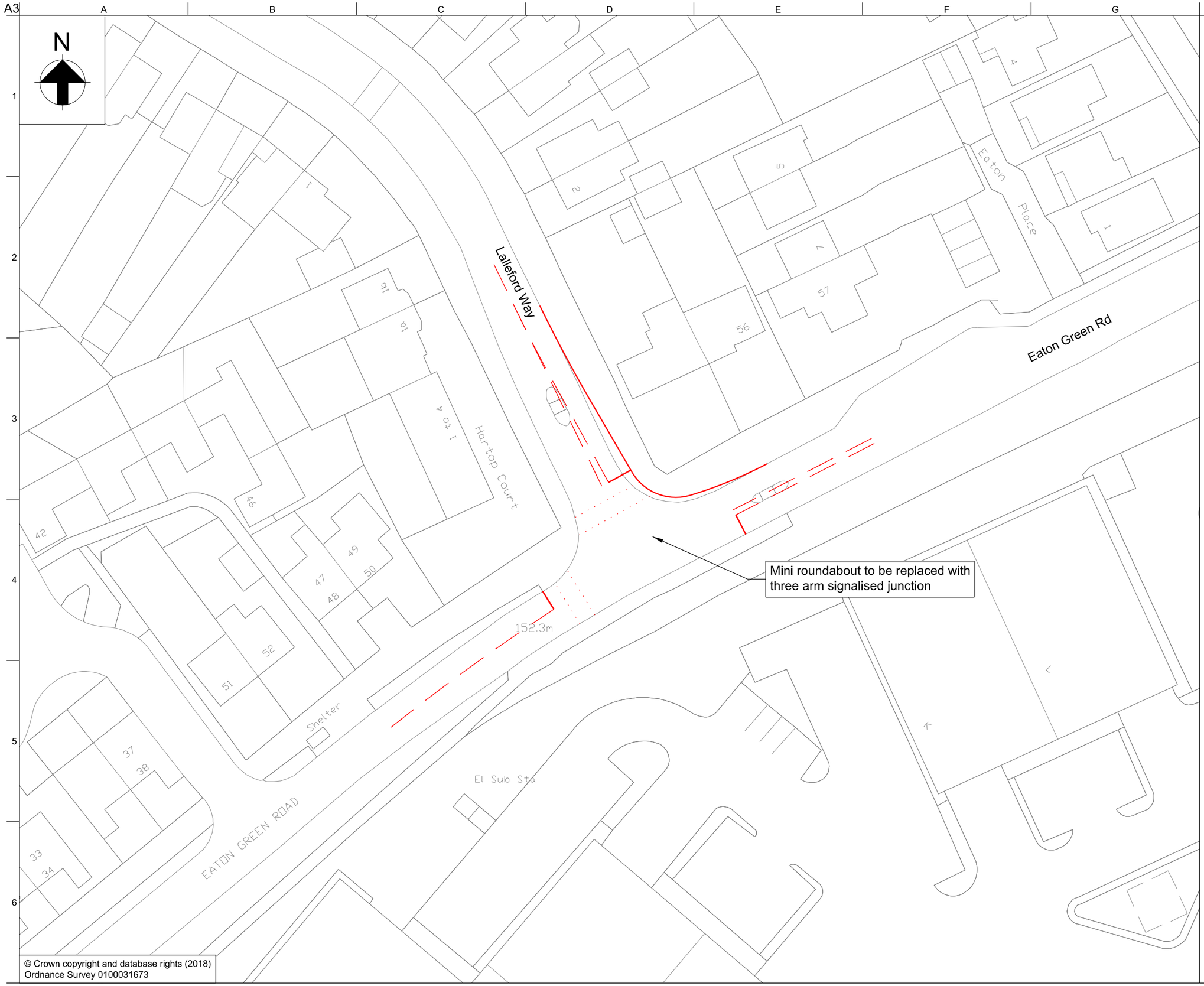
Drawing No

SK019

Issue

03

A3



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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
05	26/07/21	NS	JO	JO
Scheme Brought Forward				
04	24/05/21	NS	JO	JO
Minor Amendments				
03	11/09/20	NS	JO	JO
Minor Amendments				
02	29/01/19	NS	JO	JO
Minor Amendments				
01	01/10/18	NS	JO	JO
First Issue				

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Eaton Green Road /
Lalleford Road

- 2027 (21.5mppa Do Something)

Scale at A3 1:500

Discipline Transport Planning

Job No **259393-10**

Drawing Status **Information**

Drawing No **SK023**

Issue **05**

J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK023.dgn

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2039 (27mppa) Do Something

(With Airport Development)

A3

N

Roundabout replaced with signalised crossroads junction with pedestrian facilities

Widening to provide two lane approaches to junctions

Roundabout replaced with four arm signalised junction with on-demand pedestrian crossing facilities

Widening to provide two lane junction entry

Crawley Green Rd

Wigmore Lane

Raynham Way

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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
04	24/05/21	NS	JO	JO
	Minor Amendments			
03	11/09/20	NS	JO	JO
	Minor Amendments			
02	29/01/19	NS	JO	JO
	Minor Amendments			
01	03/12/18	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Wigmore Lane / Crawley Green Road / Raynham Way

- 2039 (27mppa Do Something)

Scale at A3 1:1250

Discipline Transport Planning

Job No **259393-10**

Drawing Status **Information**

Drawing No **SK035**

Issue **04**

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J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK035.dgn

A3

N

Mini roundabout to be replaced with three-arm signalised junction

Widening to provide two lane entries

Widening to provide two lane approaches to junctions

Four arm signalised junction with CPAR link road and Keeble Close with on-demand pedestrian crossings

Roundabout replaced with four arm signalised junction with on-demand pedestrian crossing facilities

Free-flow segregated left turn lane into CPAR link road

Alignment ties into proposed CPAR

Wigmore Lane

Eaton Green Rd

Wigmore Park Centre

Tiber House

Marlborough House

Wigmore House

Balancing Pond

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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
04	24/05/21	NS	JO	JO
	Minor Amendments			
03	11/09/20	NS	JO	JO
	First Issue			
02	29/01/19	NS	JO	JO
	Minor Amendments			
01	01/10/18	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Wigmore Lane / Eaton Green Road

- 2039 (27mppa Do Something)

Scale at A3 1:1000

Discipline Transport Planning

Job No **259393-10**

Drawing Status **Information**

Drawing No **SK036**

Issue **04**

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A3

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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
06	24/05/21	NS	JO	JO
	Minor Amendments			
05	11/09/20	NS	JO	JO
	Minor Amendments			
04	14/02/19	NS	JO	JO
	Minor Note Amendment			
03	29/01/19	NS	JO	JO
	Minor Amendments			
02	10/09/18	NS	JO	JO
	Minor Amendments			
01	13/06/18	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Eaton Green Rd / Frank Lester Way

- 2039 (27mppa Do Something)

Scale at A3 1:1000

Discipline Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK016	**06**

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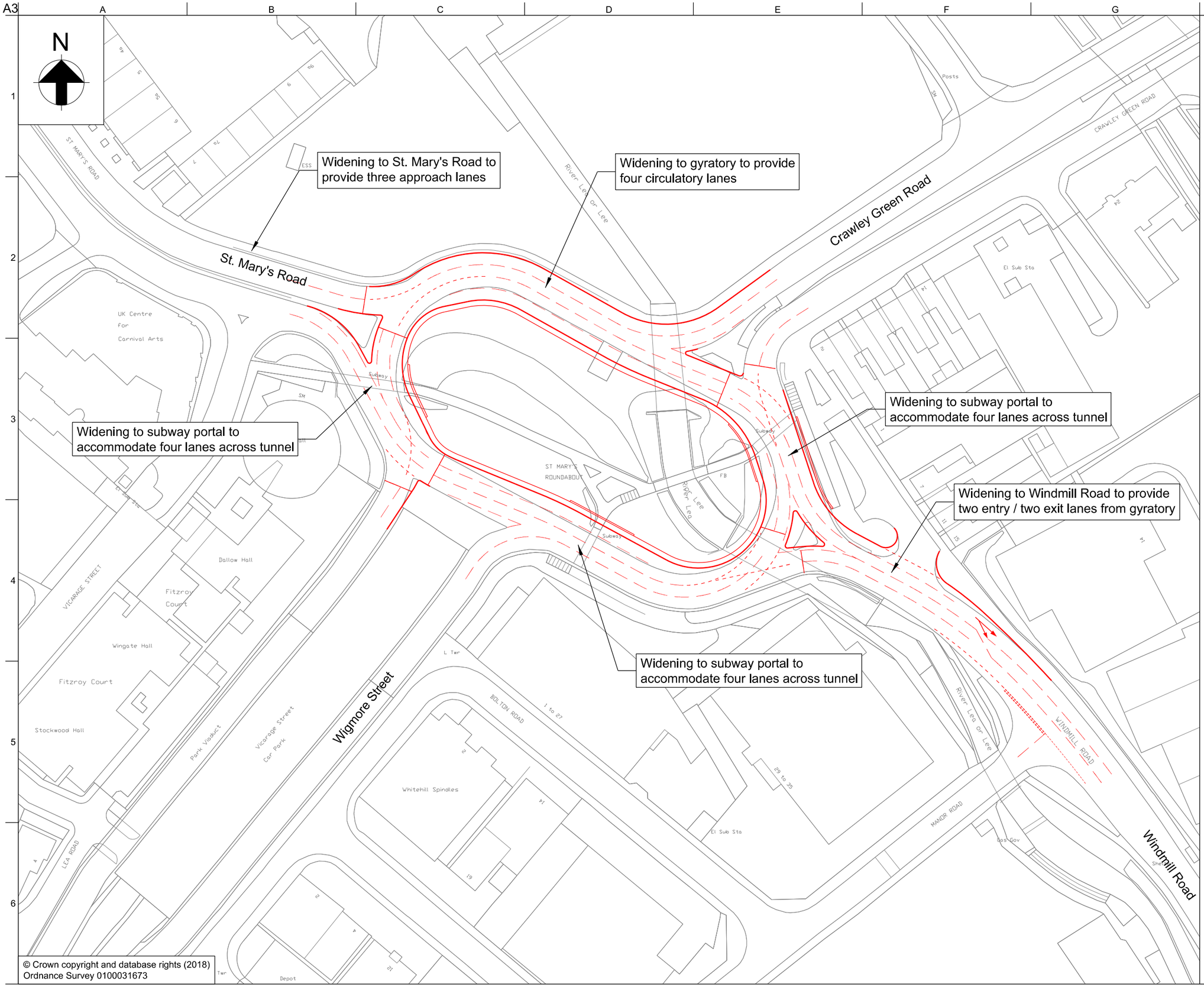

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Key:

Proposed Works

Issue	Date	By	Chkd	Appd
05	24/05/21	NS	JO	JO
	Minor Amendments			
04	11/09/20	NS	JO	JO
	Minor Amendments			
03	29/01/19	NS	JO	JO
	Minor Amendments			
02	10/09/18	NS	JO	JO
	Minor Amendments			
01	13/06/18	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Windmill Rd / St. Mary's Rd / Crawley Green Road Gyratory

- 2039 (27mppa Do Something)

Scale at A3 1:1000

Discipline Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK027	**05**

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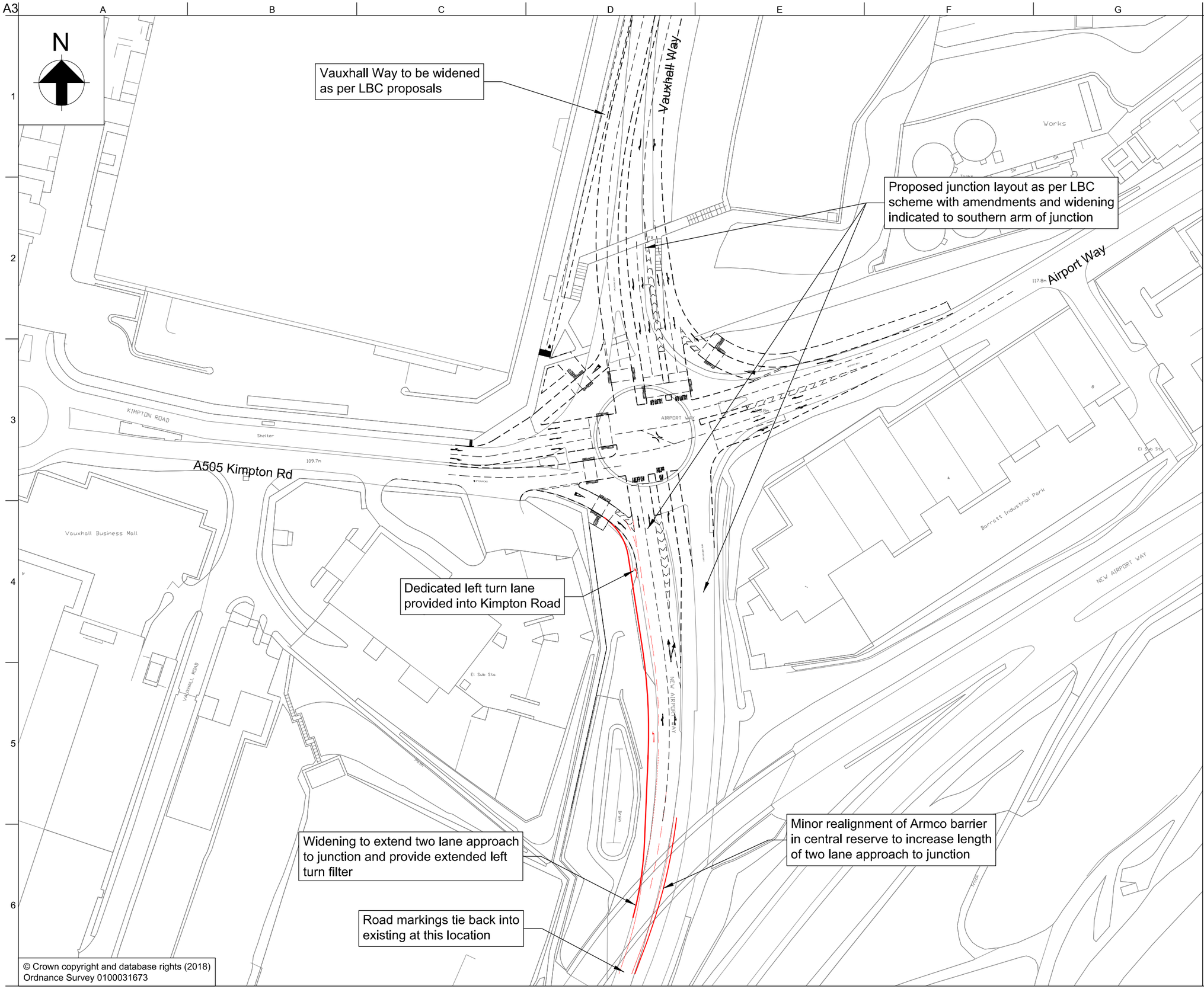

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Key:

Proposed Works

Issue	Date	By	Chkd	Appd
06	24/05/21	NS	JO	JO
Minor Amendments				
05	30/11/20	NS	JO	JO
Minor Amendments to Left Turn Lane				
04	11/09/20	NS	JO	JO
Minor Amendments				
03	29/01/19	NS	JO	JO
Minor Amendments				
02	06/11/18	NS	JO	JO
Vauxhall Way Dualled				
01	13/06/18	NS	JO	JO
First Issue				

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Client: London Luton Airport Ltd, A Luton Council company

Job Title: Luton Masterplan

A505 Kimpton Rd / Vauxhall Way

- 2039 (27mppa Do Something)

Scale at A3: 1:1250

Discipline: Transport Planning

Job No: **259393-10**

Drawing Status: **Information**

Drawing No: **SK022**

Issue: **06**

J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK022.dgn

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A3

N

New Airport Way

A1081

London Road

LONDON ROAD

Track

Roundabout to be partially signalised

NOTE: signals to operate part time (PM) only

Other road markings to remain as existing

Partial spiral markings to be introduced to improve lane discipline in conjunction with signage

SOUTH ROUNDABOUT

Newlands

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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
02	24/05/21	NS	JO	JO
	Minor Amendments			
01	18/06/19	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

A1081 / London Rd (South)
Part-Time Signals

- 2039 (27mppa Do Something)

Scale at A3 1:1000

Discipline Transport Planning

Job No **259393-10**

Drawing Status **Information**

Drawing No **SK026A**

Issue **02**

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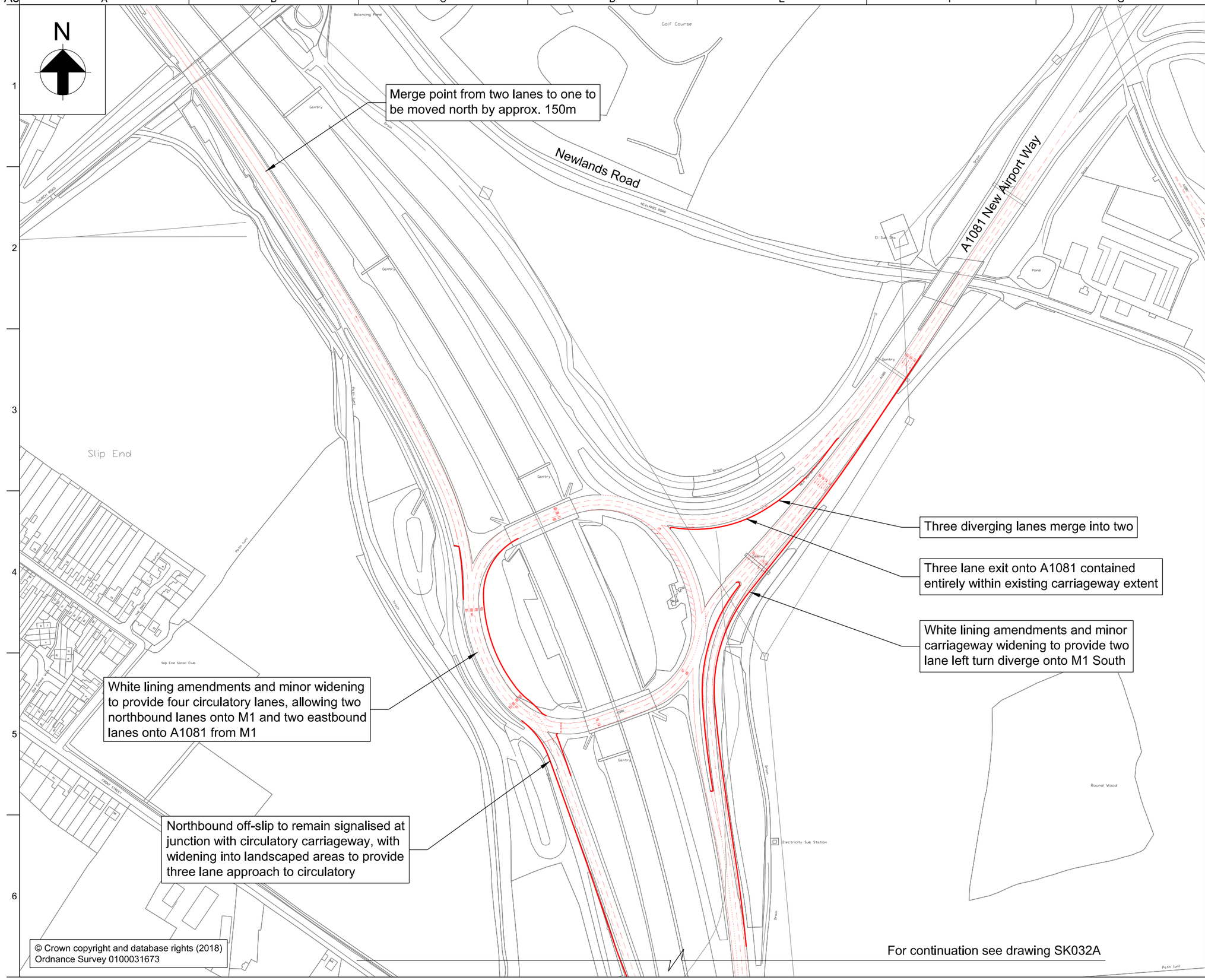

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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
03	24/05/21	NS	JO	JO
	Minor Amendments			
02	21/09/20	NS	JO	JO
	Minor Amendments			
01	30/07/19	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

A1081 New Airport Way / M1
Junction 10
- 2039 (27mppa Do Something)
Sheet 1 of 2

Scale at A3: N.T.S.

Discipline: Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK032	**03**

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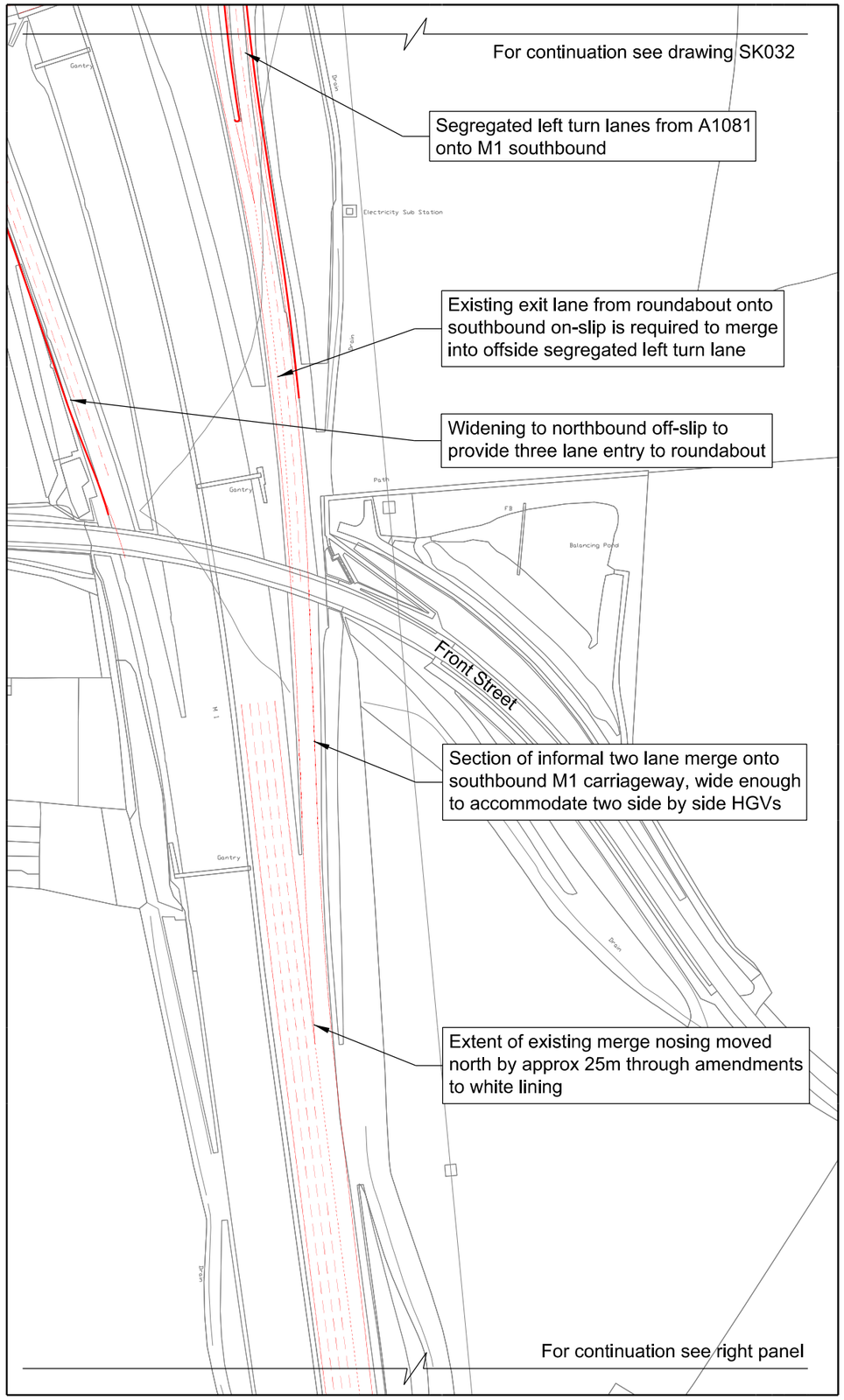

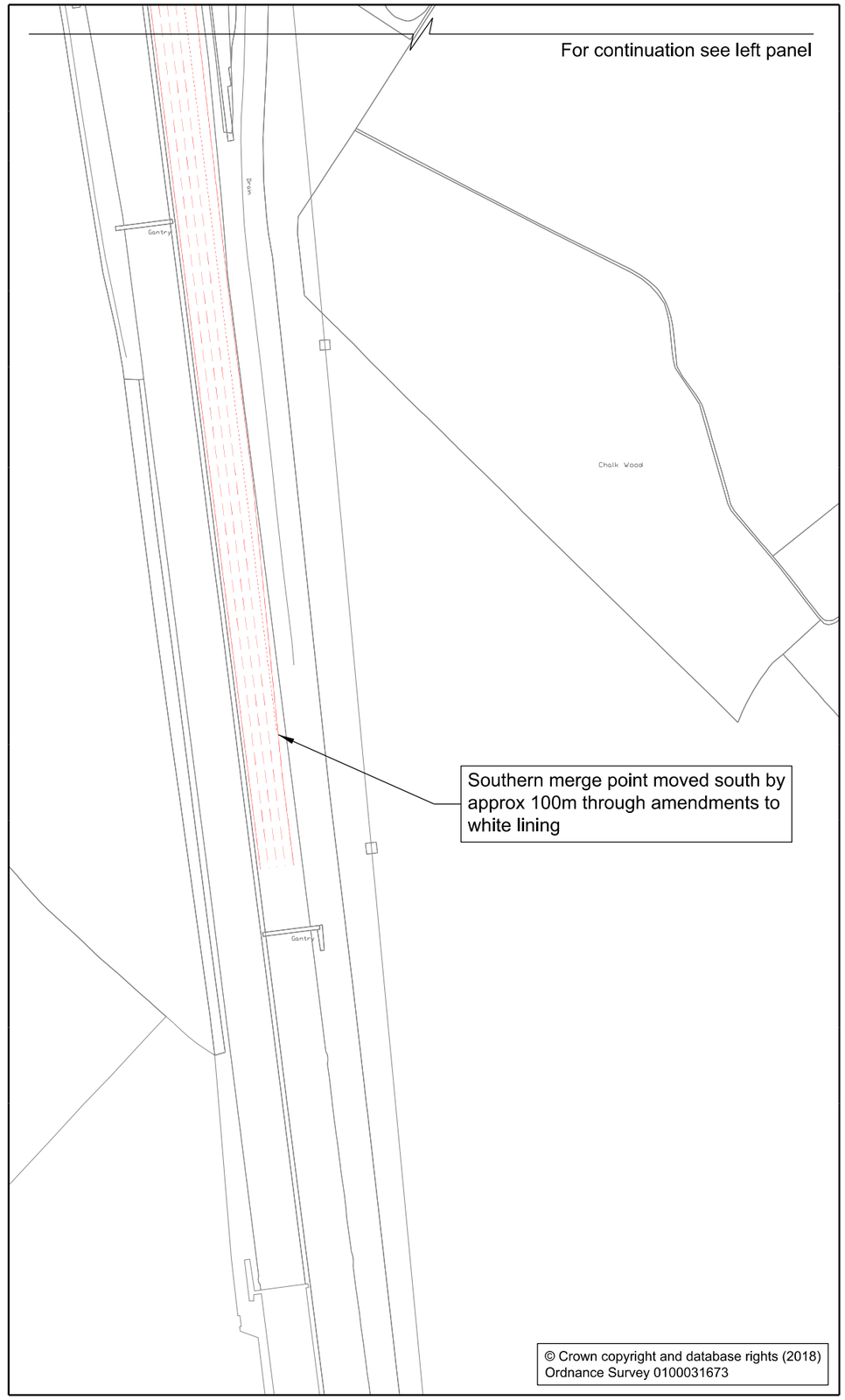

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
03	24/05/21	NS	JO	JO
	Minor Amendments			
02	21/09/20	NS	JO	JO
	Minor Amendments			
01	30/07/19	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

A1081 New Airport Way / M1 Junction 10
- 2039 (27mppa Do Something)
Sheet 2 of 2

Scale at A3 1:2000

Discipline Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK032A	**03**

J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK032A.dgn

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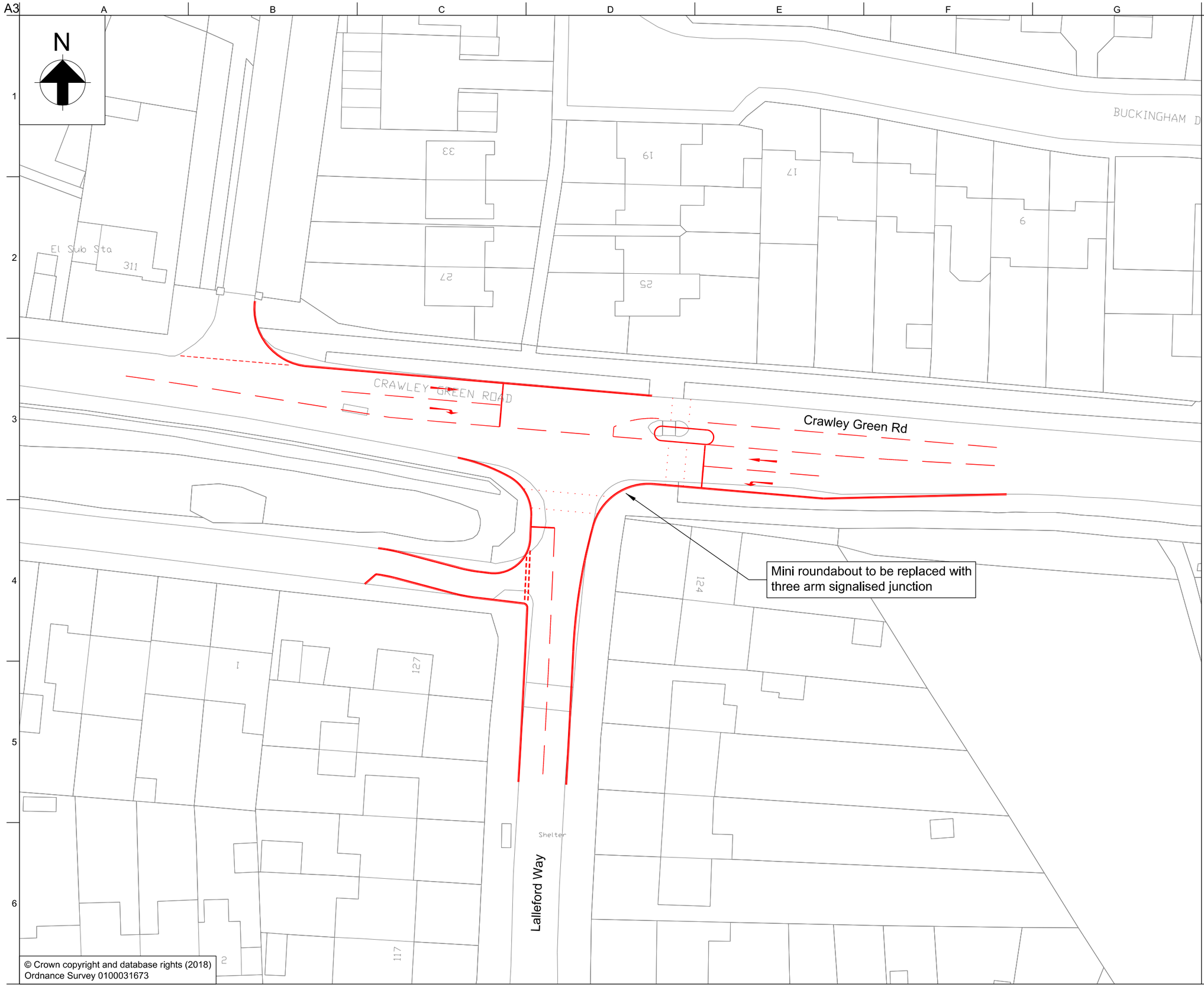

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Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
04	24/05/21	NS	JO	JO
	Minor Amendments			
03	11/09/20	NS	JO	JO
	Minor Amendments			
02	29/01/19	NS	JO	JO
	Minor Amendments			
01	06/11/18	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Crawley Green Road /
Lalleford Road

- 2039 (27mppa Do Something)

Scale at A3
1:500

Discipline
Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK034	**04**

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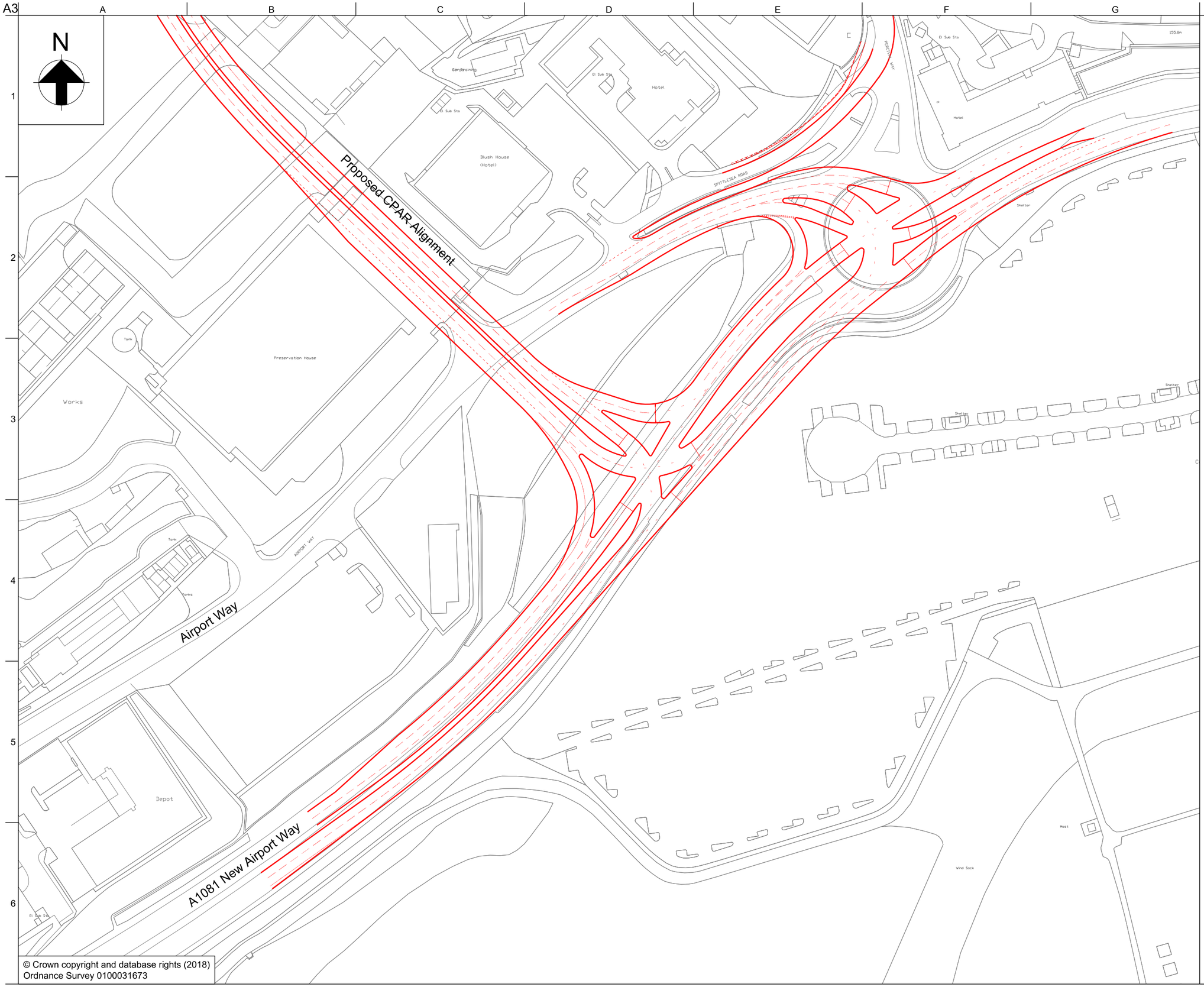
A3



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Do not scale

Issue	Date	By	Chkd	Appd
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	Minor Amendments			
04	11/09/20	NS	JO	JO
	Minor Amendments			
03	18/09/19	LS	JO	JO
	Minor Amendments			
02	29/01/19	NS	JO	JO
	Minor Amendments			
01	13/06/18	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Proposed CPAR / A1081
Junction Improvements

- 2039 (27mppa Do Something)

Scale at A3 1:1000

Discipline Transport Planning

Job No **259393-10**

Drawing Status **Information**

Drawing No **SK019A**

Issue **05**

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A3

N

Section of Percival Way retained

Roundabout junction created between CPAR and realigned Provost Way

Access retained between CPAR link and existing alignment of Provost Way

Proposed CPAR Alignment

Alignment of CPAR as per consented scheme

Roundabout junction created between Percival Way and CPAR link road

Percival Way

Percival Way

Eaton House

Works

El Sub Sta

Tanks

CPH

PROVOST WAY

Line of Posts

140

142

161.1m

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Do not scale

Issue	Date	By	Chkd	Appd
03	24/05/21	NS	JO	JO
	Minor Amendments			
02	21/09/20	NS	JO	JO
	Scheme Updated			
01	16/09/19	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

CPAR / Provost Way Junction

- 2039 (27mppa Do Something)

Scale at A3 1:1000

Discipline Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK019B	**03**

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A3

N

Frank Lester Way

Frank Lester Way to be one-way northbound for all traffic

Minor widening and realignment of Percival Way to provide two lane approach to junction with Frank Lester Way

Widening to CPAR to provide dedicated right turn lane into Frank Lester Way

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Issue	Date	By	Chkd	Appd
02	24/05/21	NS	JO	JO
	Minor Amendments			
01	21/09/20	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

CPAR / Frank Lester Way

- 2039 (27mppa Do Something)

Scale at A3 1:1000

Discipline Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK019C	**02**

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A3

N

Four arm signalised junction with Eaton Green Road

Eaton Green Road Link

Roundabout at eastern end of CPAR to be replaced with four arm signalised junction

Access to Long Stay car park

Access to Terminal 2

Eaton Green Road

Proposed CPAR Alignment

EATON GREEN ROAD

ARKLEIGH GREEN

BARLOW DELL

KESTREL CLOSE

LAVENDER PL

El Sub Sta

Ppg Sta

Soakaway

Balancing Pond

Play Area

Car Park

Shelter

Horse Centre

Posts

L Twr

Eaton Green Recycling Centre

PRESIDENT WAY

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Do not scale

Issue	Date	By	Chkd	Appd
02	24/05/21	NS	JO	JO
	Minor Amendments			
01	21/09/20	NS	JO	JO
	First Issue			

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Client: London Luton Airport Ltd, A Luton Council company

Job Title: Luton Masterplan

Proposed CPAR / Eaton Green Road Link

- 2039 (27mppa Do Something)

Scale at A3: 1:1500

Discipline: Transport Planning

Job No: 259393-10

Drawing Status: Information

Drawing No: SK019D

Issue: 02

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A3

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Do not scale

Issue	Date	By	Chkd	Appd
03	23/06/21	NS	JO	JO
	Minor Amendments			
02	24/05/21	NS	JO	JO
	Alignment Updated			
01	21/09/20	NS	JO	JO
	First Issue			

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Client
London Luton Airport Ltd
A Luton Council company

Job Title
Luton Masterplan

CPAR Alignment

- 2039 (27mppa Do Something)

Scale at A3 N.T.S.

Discipline Transport Planning

Job No	Drawing Status
259393-10	Information

Drawing No	Issue
SK019E	03

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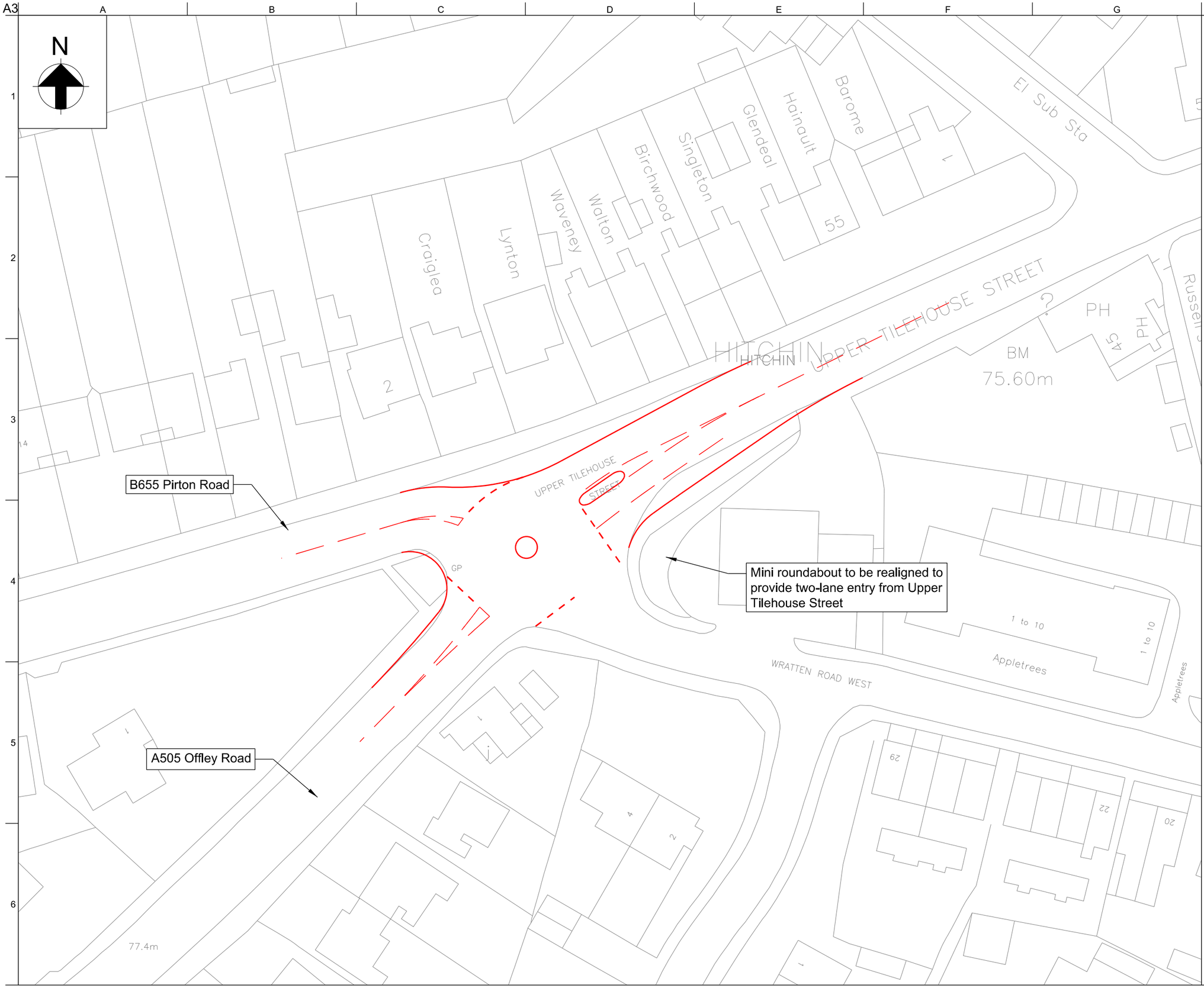

Issue	Date	By	Chkd	Appd
04	24/05/21	NS	JO	JO
	Minor Amendments			
03	11/09/20	NS	JO	JO
	Minor Amendments			
02	02/07/19	NS	JO	JO
	Design Updated			
01	29/01/19	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

Proposed Pirton Road / Offley Road Mitigation

2039 (27mppa Do Something)

Scale at A3 1:500

Discipline Transport Planning

Job No **259393-10**

Drawing Status **Information**

Drawing No **SK040**

Issue **04**

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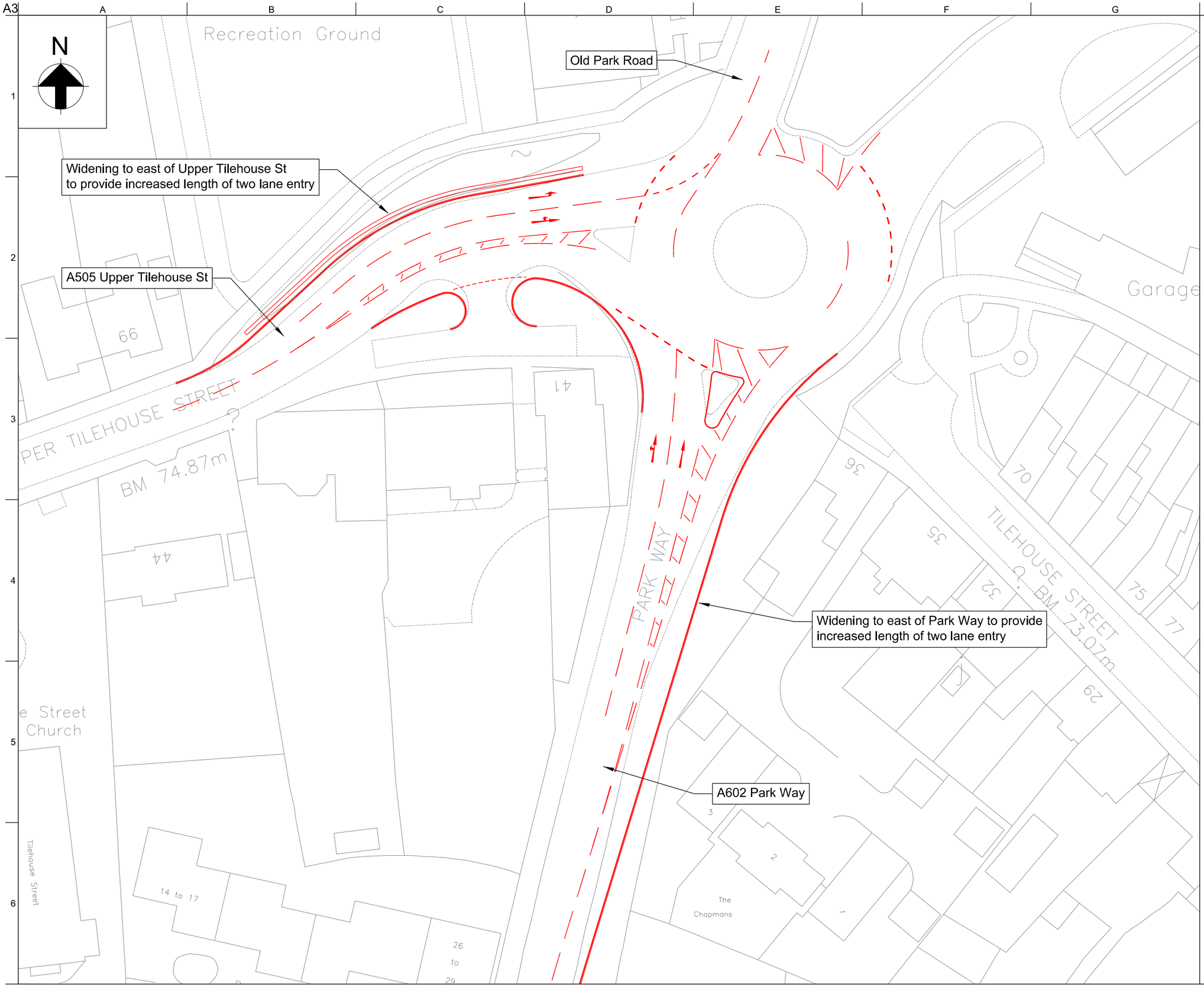

Issue	Date	By	Chkd	Appd
04	24/05/21	NS	JO	JO
	Minor Amendments			
03	11/09/20	NS	JO	JO
	Minor Amendments			
02	23/05/19	NS	JO	JO
	Mitigation Proposals Amended			
01	29/01/19	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

A602 Upper Tilehouse St /
Park Way Mitigation

2039 (27mppa Do Something)

Scale at A3 1:500

Discipline Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK041	**04**

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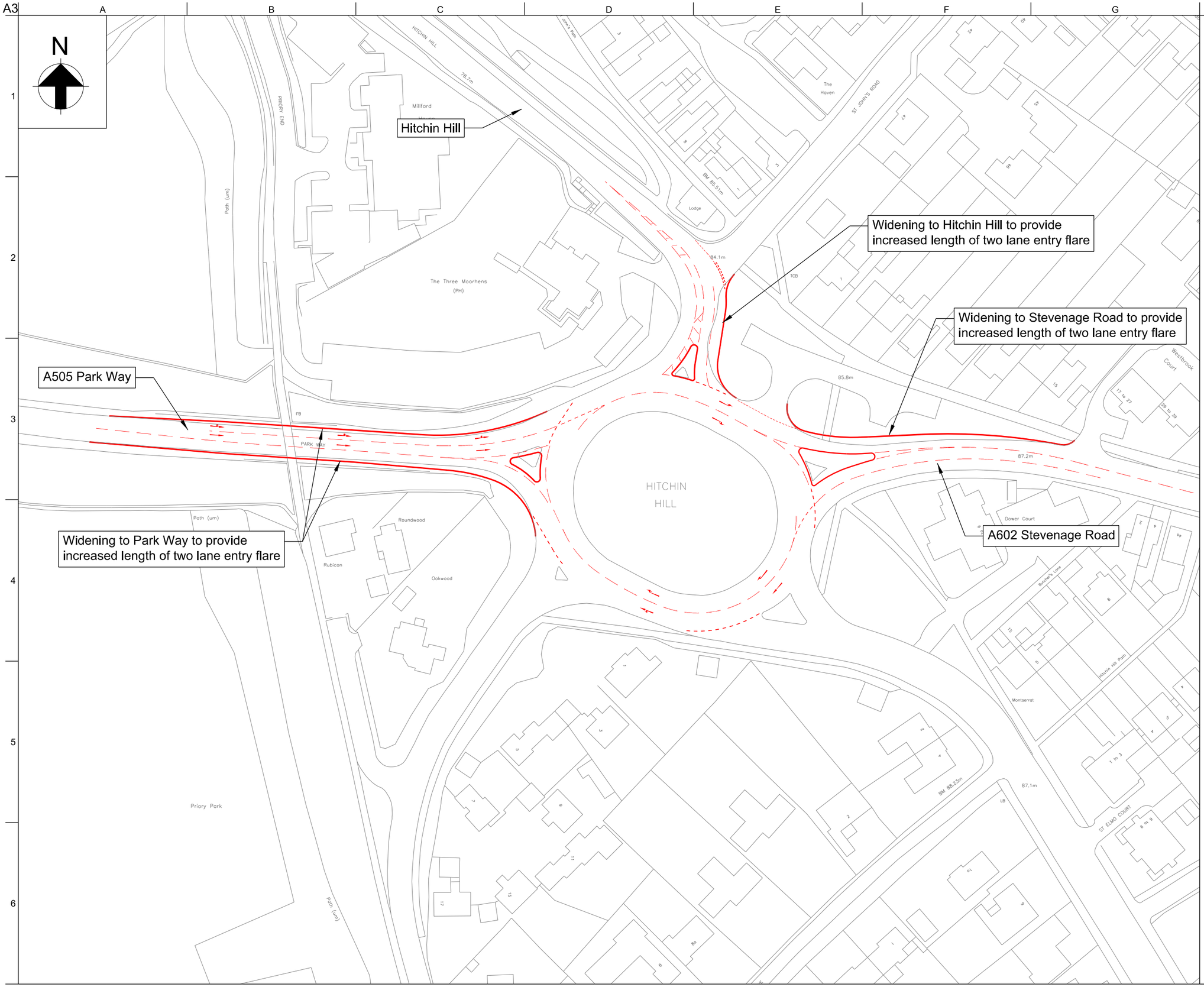

Issue	Date	By	Chkd	Appd
04	24/05/21	NS	JO	JO
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03	11/09/20	NS	JO	JO
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02	23/05/19	NS	JO	JO
	Mitigation Proposals Amended			
01	29/01/19	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

A602 Park Way /
Stevenage Rd Mitigation

- 2039 (27mppa Do Something)

Scale at A3 1:1000

Discipline Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK042	**04**

J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK042.dgn

Do not scale

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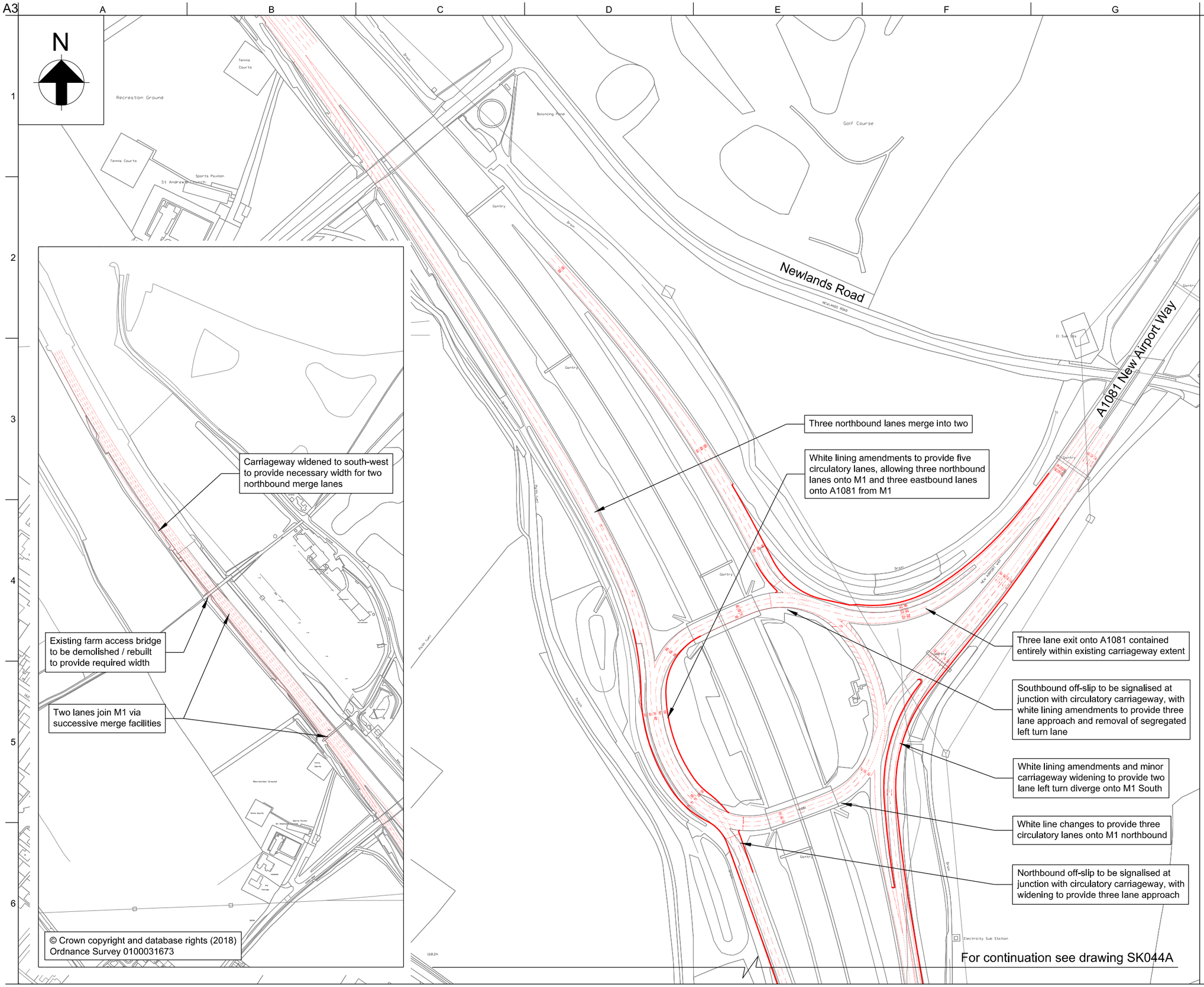
2043 (32mppa) Do Minimum

(No Airport Development)

A3



Key:

Proposed Works

Issue	Date	By	Chkd	Appd
05	24/05/21	NS	JO	JO
	Minor Amendments			
04	11/09/20	NS	JO	JO
	Minor Amendments			
03	31/05/19	NS	JO	JO
	Amendments to Lane Provision			
02	01/02/19	NS	JO	JO
	Minor Amendments			
01	30/01/19	NS	JO	JO
	First Issue			

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

A1081 New Airport Way / M1 Junction 10
- 2043 (32mppa Do Minimum)
Sheet 1 of 2

Scale at A3 N.T.S.

Discipline Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK044	**05**

J:\259300\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK044.dgn

Do not scale

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A3

For continuation see drawing SK044

Segregated left turn lanes from A1081 onto M1 southbound off-slip split into two lanes separated by white line hatching

Existing exit lane from roundabout onto southbound on-slip is required to merge into offside segregated left turn lane

Widening to northbound off-slip to provide three lane entry to roundabout

Merges tie into M1 mainline carriageway with additional lane provided through ALR

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Ordnance Survey 0100031673

Do not scale

Key:

Proposed Works

Issue	Date	By	Chkd	Appd
06	24/05/21	NS	JO	JO
Minor Amendments				
05	11/09/20	NS	JO	JO
Minor Amendments				
04	25/09/19	NS	JO	JO
Minor Amendments to Frame				
03	31/05/19	NS	JO	JO
Amendments to Nbound Off-slip				
02	01/02/19	NS	JO	JO
Minor Amendments				
01	30/01/19	NS	JO	JO
First Issue				

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

A1081 New Airport Way / M1 Junction 10 (All Lane Running) - 2043 (32mppa Do Minimum)
Sheet 2 of 2

Scale at A3: 1:2000

Discipline: Transport Planning

Job No	Drawing Status
259393-10	Information

Drawing No	Issue
SK044A	06

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J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK044A.dgn

2043 (32mppa) Do Something

(With Airport Development)

A3

N

Section of Percival Way retained for access only

Signalised junction created between CPAR and realigned Provost Way

Proposed CPAR Alignment

Alignment of CPAR as per consented scheme

Priority junction created between Percival Way and CPAR link road

Percival Way

Percival Way

Eaton House

Works

PROVOST WAY

PERCIVAL WAY

Line of Poles

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Do not scale

Issue	Date	By	Chkd	Appd
01	24/05/21	NS	JO	JO
First Issue				

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

CPAR / Provost Way Junction

- 2043 (32mppa Do Something)

Scale at A3 1:1000

Discipline Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK019F	**01**

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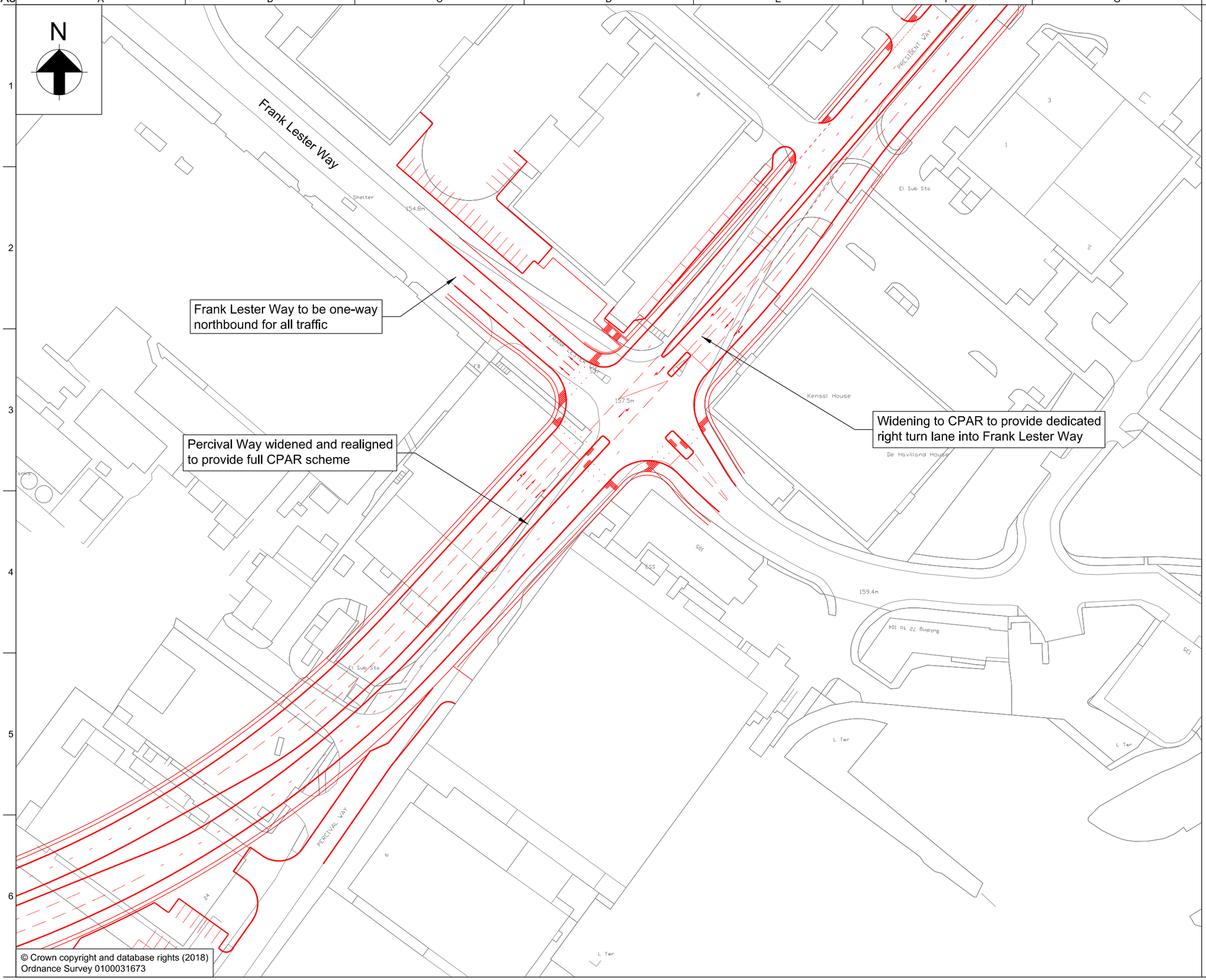
A3



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Ordnance Survey 0100031673

Do not scale

J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK019G.dgn

Issue	Date	By	Chkd	Appd
01	24/05/21	NS	JO	JO
First Issue				

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

CPAR / Frank Lester Way

- 2043 (32mppa Do Something)

Scale at A3
1:1000

Discipline
Transport Planning

Job No	Drawing Status
259393-10	**Information**

Drawing No	Issue
SK019G	**01**

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A3

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Ordnance Survey 0100031673

Do not scale

Issue	Date	By	Chkd	Appd
01	24/05/21	NS	JO	JO
First Issue				

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Client

London Luton Airport Ltd
A Luton Council company

Job Title

Luton Masterplan

CPAR Alignment

- 2043 (32mppa Do Something)

Scale at A3 N.T.S.

Discipline Transport Planning

Job No	Drawing Status
259393-10	Information

Drawing No	Issue
SK019H	01

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J:\259000\259393-10\4 Internal Project Data\4-03 Drawings\0_Drawings\SK019H.dgn

Appendix D – Site Walkover

SITE WALKOVER-NOTES

Client Luton Rising

PROJECT: Preliminary Risk Assessment **Project No: 245580**

SITE DETAILS:

Site:	Area A - Former Eaton Green Landfill
Date & Time of Visit:	29th October 2015
Visit conducted by:	[redacted]
People met/interviewed:	None
Address:	Former Eaton Green Landfill, Eaton Green Road, Luton
Postcode:	LU2 9JB
(NGR) National Grid Ref:	TL 12461 22038

PURPOSE OF SITE VISIT:

The site inspection comprised of a "walk over" to determine the current usage of the site and to visually identify possible sources of pollution, which may have resulted in the release of contamination into the environment. General observations of physical characteristics of the site were made. The survey does not include a structural survey of buildings, ecology or asbestos.

DEVELOPMENT REQUIREMENTS:

Proposed use:	There are no fixed development plans for the site. Feasibility of different airside development options is currently being explored.

SITE HISTORY:

Previous land use	The site was operated as a landfill between 1937 and 1978 under Luton County Borough Council.

GENERAL SITE DESCRIPTION:

General Site Description Areas of buildings, roads and other features. Topography Boundaries General topography General state of repair	The site lies to the east of the airport. It is bounded to the north by Eaton Green Road, farmland to the south and east and the airport to the west. The former landfill boundary was marked by a slope upwards. The northern part of the site is generally level, with some gentle undulations. Towards the south of the site the topography is move uneven with a steep slope down to the farmland in the southeast. There are no buildings on the site. Directly adjacent to the northern boundary is an 'community centre/conference centre' and a former WWII gun turret.

Areas of site not visited or inaccessible	All of the site was accessed with the exception of areas which were too heavily vegetated to access. This was limited to the woodland area on the southern boundary of the site and an area near the central part of the former landfill.

BUILT ENVIRONMENT – GENERAL:

Existing Land Use	The site is mainly used as a public open space, an area of the site on the western boundary is used as a long stay car park for the airport.
Site Access location; access suitable for GI plant or demolition plant?	There is open access to the site and it is used as a public open space. There is a wire fence on the southeastern boundary. The long stay car park on the western area (which was formerly part of the landfill) is restricted access with security barriers and palisade fencing surrounding the site.
Existing Services Type and general location. Could services be affected by a GI?	No services noted on the former landfill itself. Possible leachate collection system was noted by the presence of a line of chambers with manhole covers. Surface water drainage was noted in the long stay car park.
Hardstanding Location, type and repair	Site is entirely grass with vegetation (woodland, thicket etc), the long stay car park is entirely hardstanding which comprises roughly 10% of the site area. The hardstanding at the long stay car park generally in good condition with some cracking in areas and possible signs of uneven settlement.
Site boundary fences, walls, open, state of repair.	There is open access to the main part of the site. Access is restricted to the long stay car park.

EXISTING BUILDINGS AND PROCESSES

Were there any buildings or structures on the site at the time of the walkover?	**~~YES~~/NO**		
Number, type, size, height, material, repair etc. of building(s).	No buildings present on site.		
On going processes - What were they - Raw materials used - Products - waste residues - methods of waste disposal	**~~YES~~/NO**		
Past Processes	**~~YES~~/NO**		
- What were they - Raw materials used - Products - Waste residues - methods of waste disposal			
Boilers	**~~YES~~/NO**	**Number**	**Location**
Electrics (including sub stations and transformers)	**~~YES~~/NO**	**Number**	**Location**
Stores	**~~YES~~/NO**	**Number**	**Location**
Fuel dispensing (petrol, DERV)	**~~YES~~/NO**	**Number**	**Location**
Suspected asbestos, Sheeting insulation	**~~YES~~/NO** Although may be present within the former landfill as waste.	**Number**	**Location**

CONTAMINATION ISSUES:

Were any of the following noted?

Stressed vegetation	**YES/~~NO~~**
Stained ground / discolouration	**~~YES~~/NO**
Abandoned drains	**~~YES~~/NO**
Odours (indicators of soakaways, sumps, discharges into canals or streams). (Do NOT enter manholes. Do NOT inhale gas from standpipes).	**~~YES~~/NO**
Obvious immediate hazards to: public health or safety (including to trespassers); and the environment.	**YES/~~NO~~**
Presence, location and condition of surface deposits and made ground and signs of settlement, subsidence or disturbed ground.	**YES/~~NO~~**
Any evidence of gas production or underground combustion.	**~~YES~~/NO**
Location of sewers etc.	**~~YES~~/NO**
Position of outfalls to surface water and the nature/condition of any discharges.	**~~YES~~/NO**
Boreholes etc. remaining from previous investigations located and their condition.	**YES/~~NO~~**
Fuel tanks, above and below ground Were any leaks, or any evidence of leaks, detected? location, volume, comments, state of repair.	**~~YES~~/NO** **~~YES~~/NO**
Were suitable portable instruments used to determine the presence, and possible concentrations of hazardous gases used?	**~~YES~~/NO**
Was any limited sampling of surface deposits, surface waters etc. carried out?	**~~YES~~/NO**

Comments:
Where YES shown above.

- Possible stressed vegetation noted on base of landfill slope, grass was yellowing in places.
- Thames Valley Drain noted
- An old oil drum was noted at the surface in the south of the site. Appears to have been recently exposed due to vegetation clearance. Not known if empty or contained liquids. Was present in an area which could be accessed by members of the public.
- Several areas of settlement noted around the surface of the former landfill (see photos). Undulation of the ground surface particularly notable in the south of the site.
- No gas venting measures were noted associated with the former landfill.
- Four boreholes were found on the southern boundary of the site, three of the boreholes were unserviceable with damaged headworks and appeared to be no longer in-situ. One locked and serviceable borehole was found (see photos).

GEOTECHNICAL, HYDROLOGICAL AND HYDROGEOLOGICAL ISSUES:

Surface Water Location and depth of any standing water, and the direction and rate of flow of water in any rivers, streams or canals. Any evidence of flooding?	Standing water was noted on the surface of the landfill in dips and hollows, particularly in the south of the site. Particularly where more clayey ground conditions were present. Also in this area some of the ground was noted to be marshy, with vegetation indication wet conditions including reeds. There are no rivers present on the site.

Groundwater any evidence of depth to water table? Location of any springs or seepages.	No springs or seepages noted. The groundwater is at depth within the chalk.

Mining activity and subsidence history. (site observations and desk study).	Unknown if any chalk mining occurred prior to use of the site as a landfill. Differential settlement of the surface of the site was noted (see photographs).

NEIGHBOURING SITES:

Information about neighbouring sites	Access	Present site use	Condition of surface cover
• North	Accessible	Community centre/conference centre, allotments WWII gun turret and open space.	Soft standing grassed areas. Allotments was not accessed as was behind palisade fencing, accessed through a locked gate. Open space areas comprises playground and skate park, which have hardstanding associated with them.
• East	Accessible	Farmland	Used for arable farming, appeared to have been recently ploughed. Soils noted to be clayey in composition.
• South	No access	Fire training area Asphalt production	Fire training area is approx. 30% hardstanding with the remaining areas grassed. Standing water was noted within the grassed areas. Mobile plant associated with asphalt production is present directly to the south of the long stay car park, in LLOAL contractor's compound. This area is all soft standing.
• West	Secure access only	The airport	Mainly hardstanding

Have there been any potentially contaminative uses of adjacent sites? Details:	**YES/~~NO~~** The airport has fuelling facilities and there are tanks noted to be associated with the fire training facility.

Photo No	Photograph	Description
1		Looking south towards the airport from children's play park near entrance of Wigmore Park.
2		Southern most slope of the former landfill.
3		Waterlogged grass and some yellowing near the southern most slope of the former landfill.

4		Yellowing of grass (possible vegetation distress) on the southern slope of former landfill.
5		Wigmore Park looking toward Eaton Green Road, skateboard park in the background near the treeline.
6		View looking south east across Wigmore park.

7		Looking south east across Wigmore Park, the slope of the former landfill can be seen in the background.
8		Concrete pad close to play park area in Wigmore Park.
9		WWII Gun Turret in tree line on northern boundary of Wigmore Park.

10		Roof of WWII Gun Turret.
11		Entrange to WII Gun Turret.
12		View of WWII Gun Turret.

13		Storage compound on northern boundary of Wigmore Park – contained plastic barriers.
14		Allotments on northern boundary of Wigmore Park.
15		Area of woodland on northern boundary of Wigmore Park.

16		Area of woodland on northern boundary of Wigmore Park.
17		Area of open land in the north of Wigmore Park.
18		Woodland area on the northern boundary of Wigmore Park.

19		Public footpath/bridleway looking northeast towards Eaton Green Road. Ground slopes gently towards the road.
20		Public footpath/bridleway looking southwest towards the airport
21		Unidentified metal structure just off footpath/bridleway.

22		Access from footpath/bridleway to farmland to the east.
23		View to the southeast across farmland.
24		Boundary of site with farmland. Elevated ground in the background is part of the former landfill.

25		Borehole noted in boundary between farmland and site. Borehole was blocked with refuse and was unserviceable.
26		View of southern boundary of former landfill site.
27		View towards the south east down the valley

28		Headworks and concrete of a borehole noted in vegetation at the boundary site.
29		Fence boundary between former landfill and farmland.
30		Old oil drum noted at the base of the former landfill slope.

31		Old bottles noted adjacent to the oil drum.
32		View across adjacent farmland and down the valley.
33		Old tyre noted at the base of the slope of the former landfill.

34		Borehole with damaged headworks and refuse inside.
35		Borehole noted on the southern boundary of the site. Headworks were intact and casing locked with a padlock.
36		The airport training area to the south of the former landfill.

37		Metal parts noted in the surface of the former landfill.
38		Path up to top of former landfill from southern boundary.
39		Oil drum noted on the surface of the site.

40		Close up of oil drum markings.
41		View looking south towards the fire training area.
42		View looking to the east of farmland.

43		Recent tyre tracks on the surface of the site and pooled water noted.
44		Surface of former landfill had ponding of water. Ground conditions noted to consist of chalky clay.
45		Surface of the former landfill noted to be undulating.

46		Recent vegetation clearance along the southern part of the landfill.
47		Water running off from adjacent site (asphalt production area). Slight sheen noted on water.
48		Water running off from adjacent site.

49		Old car seat noted at the surface in the southwest of the site.
50		Area in the southwest of the site vegetated with woodland.
51		View looking towards the north, change of elevation noted in background.

52		Surface of site noted to be undulating and water logged in places with marshy conditions.
53		Possible clay capping exposed with areas of waterlogging.
54		Undulating surface with marshy conditions.

55		Undulating surface of former landfill.
56		Animal burrows noted.
57		Undulating and marshy surface of the site.

58		Settlement of former landfill can be seen around the litter bin.
59		Manhole covers with concrete bases noted in a line across the surface of the site in the northwest. Thames Valley Drain.
60		Close up photograph of manhole covers.

61		View across the site looking north.
62		Manhole covers of Thames Valley Drain. Settlement of surface can be seen around the covers.
63		Car parking adjacent to the north western boundary of the former landfill.

64		Hangars on airport site to the west of former landfill
65		Long stay car park adjacent on the western area of the former landfill.
66		Long stay car park looking towards the south.

67		Ponded water on the surface of the long stay car park with undulations in the surface noted.
68		Potential settlement noted within the long stay car park area.
69		Area of asphalt production to the south of the long stay car park.

70		Area of asphalt production to the south of the long stay car park.
71		View from long stay car park looking towards the airport.
72		View of long stay car park from the former landfill looking towards the west.

SITE WALKOVER-NOTES

Client Luton Rising

PROJECT: Ground Contamination: Preliminary Risk Assessment **Project No: 245580**

SITE DETAILS:

Site:	Former Eaton Green Landfill
Date & Time of Visit:	14/06/2016 11:00 am
Visit conducted by:	[redacted]
People met/interviewed:	None
Address:	Former Eaton Green Landfill, Eaton Green Road, Luton
Postcode:	LU2 9JB
(NGR) National Grid Ref:	TL 12461 22038

PURPOSE OF SITE VISIT:

The site inspection comprised of a "walk over" to determine the current usage of the site and to visually identify possible sources of pollution, which may have resulted in the release of contamination into the environment. General observations of physical characteristics of the site were made. The survey does not include a structural survey of buildings, ecology or asbestos.

DEVELOPMENT REQUIREMENTS:

Proposed use:	There are no fixed development plans for the site. Feasibility of different airside development options is currently being explored.

SITE HISTORY:

Previous land use	The site was operated as a landfill between 1937 and 1978 under Luton County Borough Council.

GENERAL SITE DESCRIPTION:

General Site Description Areas of buildings, roads and other features. Topography Boundaries General topography General state of repair	The site lies to the east of London Luton Airport. It is bounded to the north by Eaton Green Road, farmland to the south and east and the airport to the west. The former landfill boundary was marked by a slope upwards. The northern part of the site is generally level, however slightly hummocky. Public bridleway in the north of the country park is located atop a broad bund of gravelly made ground, approximately 0.5 – 1.0m higher than adjacent land. Towards the south of the site the topography is move uneven with a steep slope down to the farmland in the southeast. There are no buildings on the site. Directly adjacent to the northern boundary is an 'community centre/conference centre' and a former WWII gun turret.

Areas of site not visited or inaccessible	All of the site was accessed with the exception of areas which were too heavily vegetated to access. This was limited to the woodland area on the

	southern boundary of the site and an area near the central part of the former landfill.

BUILT ENVIRONMENT – GENERAL:

Existing Land Use	The site is mainly used as a public open space, an area of the site on the western boundary is used as a long stay car park for the airport.
Site Access location; access suitable for GI plant or demolition plant?	There is open access to the site and it is used as a public open space. There is a wire fence on the south eastern boundary. The long stay car park on the western boundary of the site (which was formerly part of the landfill) is restricted access with security barriers and palisade fencing surrounding the site.
Existing Services Type and general location. Could services be affected by a GI?	No services noted on the former landfill itself. Line of Thames Valley drain noted by the presence of a line of chambers with manhole covers. Surface water drainage was noted in the long stay car park.
Hardstanding Location, type and repair	Site is entirely grassed with vegetation (woodland, thicket etc), the long stay car park is entirely hardstanding which comprises roughly 10% of the site area.
Site boundary fences, walls, open, state of repair.	There is open access to the main part of the site. Access is restricted to the long stay car park.

EXISTING BUILDINGS AND PROCESSES

Were there any buildings or structures on the site at the time of the walkover?	**~~YES~~/NO**		
Number, type, size, height, material, repair etc. of building(s).	No buildings present on site.		
On going processes - What were they - Raw materials used - Products - waste residues - methods of waste disposal	**~~YES~~/NO**		
Past Processes	**~~YES~~/NO**		
- What were they - Raw materials used - Products - Waste residues - methods of waste disposal			
Boilers	**~~YES~~/NO**	**Number**	**Location**
Electrics (including sub stations and transformers)	**~~YES~~/NO**	**Number**	**Location**
Stores	**~~YES~~/NO**	**Number**	**Location**
Fuel dispensing (petrol, DERV)	**~~YES~~/NO**	**Number**	**Location**

Suspected asbestos, Sheeting insulation	~~**YES**~~**/NO** Although may be present within the former landfill as waste.	**Number**	**Location**

CONTAMINATION ISSUES:

Were any of the following noted?

Stressed vegetation	~~**YES**~~**/NO**
Stained ground / discolouration	~~**YES**~~**/NO**
Abandoned drains	~~**YES**~~**/NO**
Odours (indicators of soakaways, sumps, discharges into canals or streams). (Do NOT enter manholes. Do NOT inhale gas from standpipes).	~~**YES/**~~**NO**
Obvious immediate hazards to: public health or safety (including to trespassers); and the environment.	~~**YES**~~**/NO**
Presence, location and condition of surface deposits and made ground and signs of settlement, subsidence or disturbed ground.	**YES/**~~**NO**~~
Any evidence of gas production or underground combustion.	~~**YES**~~**/NO**
Location of sewers etc.	~~**YES/**~~**NO**
Position of outfalls to surface water and the nature/condition of any discharges.	~~**YES**~~**/NO**
Boreholes etc. remaining from previous investigations located and their condition.	~~**YES**~~**/NO**
Fuel tanks, above and below ground Were any leaks, or any evidence of leaks, detected? location, volume, comments, state of repair.	~~**YES**~~**/NO** ~~**YES**~~**/NO**
Were suitable portable instruments used to determine the presence, and possible concentrations of hazardous gases used?	~~**YES**~~**/NO**
Was any limited sampling of surface deposits, surface waters etc. carried out?	~~**YES**~~**/NO**

Comments:

Where YES shown above.

- Well defined edge to landfill, with terrain noted as slightly hummocky.
- Bridleway present atop a bund of gravelly made ground approximately 05.-1.0m higher than adjacent land.

GEOTECHNICAL, HYDROLOGICAL AND HYDROGEOLOGICAL ISSUES:

Surface Water Location and depth of any standing water, and the direction and rate of flow of water in any rivers, streams or canals. Any evidence of flooding?	No standing water recorded on site visit. There are no rivers present on the site.

Groundwater any evidence of depth to water table? Location of any springs or seepages.	No springs or seepages noted. The groundwater is at depth within the chalk.

Mining activity and subsidence history. (site observations and desk study).	Unknown if any chalk mining occurred prior to use of the site as a landfill. Differential settlement of the surface of the site was noted (see photographs).

NEIGHBOURING SITES:

Information about neighbouring sites	Access	Present site use	Condition of surface cover
• North	Accessible	Community centre/conference centre, allotments WWII gun turret and open space.	Soft standing grassed areas. Allotments was not accessed as was behind palisade fencing, accessed through a locked gate. Open space areas comprises playground and skate park, which have hardstanding associated with them.
• East	Accessible	Farmland	Used for arable farming, appeared to have been recently ploughed. Soils noted to be clayey in composition.
• South	No access	Fire training area Asphalt production	Fire training area is approx. 30% hardstanding with the remaining areas grassed. Standing water was noted within the grassed areas. Mobile plant associated with asphalt production is present directly to the south of the long stay car park. This area is all soft standing.
• West	Secure access only	The airport	Mainly hardstanding

Have there been any potentially contaminative uses of adjacent sites? Details:	**YES/~~NO~~** The airport has fuelling facilities and there are tanks noted to be associated with the fire training facility.

Photo No		Description
1		View south from atop the former landfill.
2		View east from atop the landfill.
3		View north east, note the change in level indicating the extent of the former landfill.

Photo No		Description
4		View north west along the former landfill boundary.
5		Vegetation on eastern edge of former landfill.
6		View along bridleway leading towards the former landfill.

Photo No		Description
7		View from bridleway east of site towards landfill, note the embankment covered in vegetation.
8		View south across agricultural land within the dry valley.
9		View south, note the raised earthwork runway platform in background.

Photo No		Description
10		View from Darley road westwards towards bridleway.
11		View westward towards former landfill.

SITE WALKOVER PROFORMA

Client London Luton Airport Limited

PROJECT: **Project No:245580**

SITE DETAILS:

Site:	Luton Airport MPT
Date & Time of Visit:	19/10/2016 10:00am – 14:00pm
Visit conducted by:	[redacted]
People met/interviewed:	N/A
Address:	London Luton Airport Airport Way Luton
Postcode:	LU2 9LY
(NGR) National Grid Ref:	TL120212

PURPOSE OF SITE VISIT:

The site inspection comprised of a "walk over" to determine the current usage of the site and to visually identify possible sources of pollution, which may have resulted in the release of contamination into the environment. General observations of physical characteristics of the site were made. The survey does not include a structural survey of buildings.

DEVELOPMENT REQUIREMENTS:

Proposed use:	The area's are to be developed with the construction of a Mass Public Transport system. Connecting Luton Airport Parkway train station to the London Luton Airport Terminal.

SITE HISTORY:

Previous land use (check if awaiting historical map information).	Airport – Green runway airport Short Term – Green space Medium Term – Green space Stirling Place – Depot & motor works

GENERAL SITE DESCRIPTION:

General Site Description Areas of buildings, roads and other features. Topography Boundaries General topography General state of repair	Airport – Grassed area with some hand standing and bare earth tracks. Wire fence present around the perimeter for the runway restricting access. The material used within the embankment seems to be of poor quality. Short Term – Hardstanding across the car-park, construction works associated with new multi-storey car-park Medium Term – Built up earthwork with Hardstanding across the site, small brick building present in the centre of the car park. Stirling Place – Hard standing with over grown vegetation. Fly tipping present, previous BH with ground water monitoring installation found. Possible GW remediation system found. Tunnel – Concrete structures shown on historical aerial photo's identified, over grown vegetation alongside access.

Areas of site not visited or inaccessible	N/A

BUILT ENVIRONMENT – GENERAL:

Existing Land Use (photographs required)	Airport Runway is maintained grassland, Short term and medium term car parks are actively used. Stirling Place – Non, currently cleared hardstanding. Tunnel – Non, dead end route.
Site Access location; access suitable for GI plant or demolition plant?	Airport – Permit required Short Term parking – Easy access for rigs Medium Term parking – Easy access for rigs Stirling Place – Easy access for rigs Tunnel – Easy access for rigs
Existing Services Type and general location. Could services be affected by a GI?	Drainage identified on all sites, possible active utilities present under parking and stirling place.
Hardstanding Location, type and repair	Hardstanding on short and medium term car parks are in moderate condition, poor in places. Hardstanding on Stirling place is in good condition.
Site boundary fences, walls, open, state of repair. Is boundary shown adequately on site plan?	All sites have fenced perimeters, with vegetation overgrowth present on Stirling place.

EXISTING BUILDINGS AND PROCESSES

Were there any buildings or structures on the site at the time of the walkover?	YES
Number, type, size, height, material, repair etc. of building(s).	Medium Term parking – Small single storey brick hut with mast to its rear, good condition, possible utilities hut? Short Term parking – temporary structures such has huts for parking attendants Stirling Place – Low retaining wall which was previously part of loading bay. Good condition. Tunnel – Tunnel in good condition, evidence of recent maintenance visible.

On going processes - What were they - Raw materials used - Products - waste residues - methods of waste disposal	NO		
Past Processes	YES		
- What were they - Raw materials used - Products - Waste residues - methods of waste disposal	Stirling place has been historically used as a storage depot.		
Boilers	**NO**	**Number:**	**Location**
Electrics (including sub stations and transformers)	**NO**	**Number:**	**Location**
Stores	**YES**	**Number:** **1**	**Location** **Mid Term Car park**
Fuel dispensing (petrol, DERV)	**NO**	**Number:**	**Location**
Suspected asbestos, Sheeting insulation	**Possibly**	**Number:** **1**	**Location** **Airport Embankment**
Ventilation/air conditioning	**NO**	**Number:** **1**	**Location**
Fire extinguishers	**NO**	**Number:** **1**	**Location**
Hazchem signs Specify	**YES**	**Number:** **1**	**Location**

Comments

Chemical store noted was in relation to the fire station present on the airport site. Stores were noted on the mid term car park as likely use of the building identified.

CONTAMINATION ISSUES:

Were any of the following noted?

Stressed vegetation	NO
Stained ground / discolouration	NO
Abandoned drains	YES
Odours (indicators of soakaways, sumps, discharges into canals or streams). (Do NOT enter manholes. Do NOT inhale gas from standpipes).	YES
Obvious immediate hazards to: public health or safety (including to trespassers); the environment.	NO
Presence, location and condition of surface deposits and made ground and signs of settlement, subsidence or disturbed ground.	NO
Any evidence of gas production or underground combustion.	NO
Location of sewers etc.	YES
Position of outfalls to surface water and the nature/condition of any discharges.	NO
Boreholes etc. remaining from previous investigations located and their condition.	YES
Fuel tanks, above and below ground Were any leaks, or any evidence of leaks, detected? location, volume, comments, state of repair.	NO NO
Were suitable portable instruments used to determine the presence, and possible concentrations of hazardous gases used?	NO
Was any limited sampling of surface deposits, surface waters etc. carried out?	NO

Comments:
Abandoned drains present on the Stirling Place site, following demolition of the building.

A sweet phenolic odour was encountered atop the Airport earthwork, possible source being offsite car works.

A single borehole was encountered on Stirling Place with ground water standpipe present.

GEOTECHNICAL, HYDROLOGICAL AND HYDROGEOLOGICAL ISSUES:

Surface features eg Topography (any comments in addition to General Description at start of proforma)	

Surface Water Location and depth of any standing water, and the direction and rate of flow of water in any rivers, streams or canals. Any evidence of flooding?	Minor surface water present on hardstanding, no

Groundwater any evidence of depth to water table? Location of any springs or seepages.	No

Mining activity and subsidence history. (site observations and desk study).	No

NEIGHBOURING SITES:

Aiport Runway Embankment

Information about neighbouring sites	Access	Present site use	Condition of surface cover
• North of the site	Easy access is possible via road	Mid Term car park and roadways	Hard standing
• East of the site	Restricted access via security gates	Active airport runway/stands	Grass and hard standing
• South of the site	Restricted access via security gates	Active runway beyond is agricultural land	Maintained grass
• West of the site	Via public right of way	Unused	Grassland

Medium Term Car Park

Information about neighbouring sites	Access	Present site use	Condition of surface cover
• North of the site	Easy access via road	Holiday Inn hotel, airport access road	Good condition hardstanding
• East of the site	Restricted access via security gates	Active airport runway/stands	Good condition hard standing
• South of the site	Restricted access via security gates	Active airport runway/stands	Good condition hard standing and managed grassed areas
• West of the site	Easy access via road	Airport access road, Offices beyond that	Good condition hard standing

Short Term Car Park

Information about neighbouring sites	Access	Present site use	Condition of surface cover
• North of the site	Possible access to parts Restricted access via security gate.	Car parking and airport terminal. Airside apron also present	Well maintained hard standing.
• East of the site	Restricted access via security gates for	Active airport runway/stands	Well maintained hard standing and grass
• South of the site	Restricted access via security gates for	Active airport runway/stands	Well maintained hard standing and grass
• West of the site	Access via road	Easy Jet terminal	Maintained hard standing

Stirling Place

Information about neighbouring sites	Access	Present site use	Condition of surface cover
• North of the site	Limited private parking, access via A505	Business centre & A505	Maintained hard standing
• East of the site	Via access road and past security	Printing house? Daily express	Maintained hard standing

• South of the site	Restricted	Active railway	Ballast
• West of the site	Restricted Limited	Active railway Railway station and Hilton Hotel	Ballast Maintained hard standing.

Have there been any potentially contaminative uses of adjacent sites? Details:	YES Car production adjacent to the proposed route.
Have there been any potentially contaminative uses of sites in the vicinity? Details:	YES Fire Station present on the airport site, with associated chemical stores.

Photo No		**Description**
1		View north from airside atop runway embankment.
2		Image showing quality of fill material.

Photo No		Description
3		Further evidence of quality of embankment material.
4		Animal burrows present at embankment edge.
5		Looking west from atop the runway embankment, New Airport Way is visible.

Photo No		Description
6		Storage tanks at airside fire station.
7		Rubbish left on mid-term car park.
8		Quality of hardstanding present on mid-term car park.

Photo No		Description
9		Looking towards air side fire station from mid-term car park.
10		Looking north from mid-term car park, hangars and taxiways visible.
11		Brick structure present in the mid-term car park.

Photo No		Description
12		Looking west from mid-term car park.
13		Looking north towards mid-term car park from New Airport Way, earthworks under construction.
14		Looking west from short-term car park, active construction works underway.

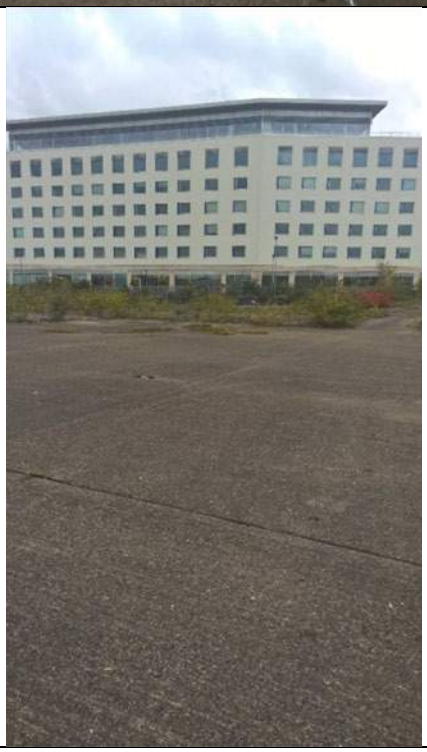
Photo No		Description
15		Quality of hardstanding at short-term car park. =
16		Looking north from Stirling Place.

Photo No		Description
17		Looking west from Stirling Place, railway line visible, quality of hardstanding noted as good.
18		Looking south east from Stirling Place, previous borehole and monitoring equipment can be seen.

Photo No		Description
19		View down previous borehole.
20		Evidence of fly tipping at Stirling Place.
21		Further fly tipping at Stirling place.

Photo No		Description
22		Possible groundwater remediation system at Stirling Place.
23		Vegetation along the periphery of Stirling Place.
24		Further vegetation around perimeter of Stirling Place.

Photo No		Description
25		Possible historical borehole location.
26		Railway under bridge adjacent to Stirling Place.
27		Evidence of repairs carried out on the underbridge.

SITE WALKOVER PROFORMA

Client Luton Rising

PROJECT: Luton Airport Expansion Development Consent Order **Project No: 261327-05**

SITE DETAILS:

Site:	Area C
Date & Time of Visit:	19/06/19 12.30am
Visit conducted by:	[redacted]
People met/interviewed:	N/A
Address:	Land East of Winch Hill Lane Eaton Green Road Luton
Postcode:	LU2 9JB

PURPOSE OF SITE VISIT:

The site inspection comprised of a "walkover" to determine the current usage of the site and to visually identify possible sources of pollution, which may have resulted in the release of contamination into the environment. General observations of physical characteristics of the site were made. The survey does not include a structural survey of buildings.

DEVELOPMENT REQUIREMENTS:

Proposed use:	The areas surveyed will form part of the DCO application for the expansion of Luton airport, Area C to form part of the relocated Wigmore Park.

SITE HISTORY:

Previous land use (check if awaiting historical map information).	Farmland

GENERAL SITE DESCRIPTION:

General Site Description Areas of buildings, roads and other features. Topography Boundaries General topography General state of repair	The site comprises two land parcels to the north and south of Winch Hill House, east of Winch Hill Lane. The site is undulating farmland with mature trees and hedgerows to field boundaries and 2No. small woodland areas in the eastern and southern areas.

Areas of site not visited or inaccessible	Access to the most eastern field block. Site was viewed from Winch Hill Lane as the land was cropped at the time of the visit.

BUILT ENVIRONMENT – GENERAL:

Existing Land Use (photographs required)	Arable farmland with wheat crop. 2No. disused agricultural sheds. Strip of landing lights for Luton airport.
Site Access location; access suitable for GI plant or demolition plant?	The site is generally not publicly accessible, one footpath is noted and accessible from Winch Hill Lane, which cuts through the northern area of the site heading northeast. Vehicle access points from Winch Hill Lane are at Winch Hill Farm into the northern area and access to the southern area from Winch Hill Lane to a vehicle track which provides access to the Luton Airport landing lights.
Existing Services Type and general location. Could services be affected by a GI?	Likely to be field drains and services to the farm sheds at Winch Hill Farm and landing lights. Overhead electric cables cross the northern land parcel, starting just north of Winch Hill Farm and heading northeast from Winch Hill Lane to Darley Road. Second overhead electric cable runs along Winch Hill Lane from Winch Hill Farm to Winch Hill House
Hardstanding Location, type and repair	Small area of hardstanding around the farm sheds, in poor condition. Soil/manure noted to the floor of one of the sheds Internal concrete flooring to sheds in good condition.
Site boundary fences, walls, open, state of repair. Is boundary shown adequately on site plan?	The site is bounded by mature hedgerow and trees, shallow ditches and low earth mounds, some boundaries are open as the site boundary crosses between field boundaries.

EXISTING BUILDINGS AND PROCESSES

Were there any buildings or structures on the site at the time of the walkover?	YES		
Number, type, size, height, material, repair etc. of building(s).	Two large agricultural sheds, constructed from corrugated metal, breeze block/brick and asbestos cement sheeting. One of the sheds had internal lining boards, possibly containing asbestos.		
On going processes - What were they - Raw materials used - Products - waste residues - methods of waste disposal	NO		
Past Processes	NO		
- What were they - Raw materials used - Products - Waste residues - methods of waste disposal			
Boilers	**NO**	**Number**	**Location**
Electrics (including sub stations and transformers)	**YES** Overhead electric cables	**Number** 2	**Location** Along Winch Hill Lane from Winch Hill Farm to Winch Hill House. From Winch Hill Lane, northeast across northern land parcel to Darley Road.
Stores	**NO**	**Number**	**Location**
Fuel dispensing (petrol, DERV)	**NO**	**Number**	**Location**

Suspected asbestos, Sheeting insulation	**Possibly** Roofing to the sheds appeared to be asbestos cement. Lining boards to one of the sheds possibly contain asbestos	**Number** unknown	**Location** Agricultural shed roofs and internal lining
Ventilation/air conditioning	**NO**	**Number**	**Location**
Fire extinguishers	**NO**	**Number**	**Location**
Hazchem signs Specify	**NO**	**Number**	**Location**

CONTAMINATION ISSUES:

Were any of the following noted?

Stressed vegetation	NO
Stained ground / discolouration	NO
Abandoned drains	NO
Odours (indicators of soakaways, sumps, discharges into canals or streams). (Do NOT enter manholes. Do NOT inhale gas from standpipes).	NO
Obvious immediate hazards to: public health or safety (including to trespassers); the environment.	Fragile roofs to agricultural sheds
Presence, location and condition of surface deposits and made ground and signs of settlement, subsidence or disturbed ground.	Earth/manure on floor to one of the sheds. Made ground to external areas of the agricultural sheds and a low bund at the entrance. Deposit of grass cuttings at southwestern corner of northern land parcel. Small area of flytipping on opposite side of Winch Hill Lane in Area B.
Any evidence of gas production or underground combustion.	NO
Location of sewers etc.	NO
Position of outfalls to surface water and the nature/condition of any discharges.	NO
Boreholes etc. remaining from previous investigations located and their condition.	NO
Fuel tanks, above and below ground	NO

Were any leaks, or any evidence of leaks, detected? location, volume, comments, state of repair.	
Were suitable portable instruments used to determine the presence, and possible concentrations of hazardous gases used?	NO
Was any limited sampling of surface deposits, surface waters etc. carried out?	NO

GEOTECHNICAL, HYDROLOGICAL AND HYDROGEOLOGICAL ISSUES:

Surface features eg Topography (any comments in addition to General Description at start of proforma)	No additional comments
Surface Water Location and depth of any standing water, and the direction and rate of flow of water in any rivers, streams or canals. Any evidence of flooding?	No watercourses or evidence of flooding

Groundwater any evidence of depth to water table? Location of any springs or seepages.	NO

Mining activity and subsidence history. (site observations and desk study).	NO

NEIGHBOURING SITES:

Information about neighbouring sites	Access	Present site use	Condition of surface cover
• North of the site	Generally not publicly accessible	Farmland	Arable crop
• East of the site	Generally not publicly accessible	Farmland	Arable crop
• South of the site	Generally not publicly accessible	Farmland	Arable crop
• West of the site	Generally not publicly accessible	Farmland/Airport land	Arable crop/hardstanding

Have there been any potentially contaminative uses of adjacent sites? Details:	YES- airport to the west and former Eaton Green Landfill.

Site layout sketch with location of photograph and direction indicated

Legend

DCO Boundary

XX Photograph ID

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Issue	Date	By	Chkd	Appd
P1	19-07-19	ES	RB	TB

Metres

0 70 140 280

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Client

Luton Rising

Job Title

Luton Airport
Preliminary Risk Assessment

Drawing Title

Area C

Scale at A3

1:5,000

Drawing Status

FOR ISSUE

Job No	Drawing No	Issue
245580-00	Figure 01	P1

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oFileLocation

Photograph number		Description
1		Northern parcel, looking southeast from Winch Hill Lane.
2		Northern land parcel, looking east from Winch Hill Lane.
3		Northern land parcel looking northeast from Winch Hill Lane.
4		Northern land parcel looking southwest from Winch Hill Lane.

5		Northern land parcel, topsoil.
6		Northern land parcel, looking southeast from Winch Hill Lane.
7		Northern land parcel looking southeast, electric poles to foreground and middle gound.
8		Looking southeast along Winch Hill Lane.

9		Northern land parcel, looking northeast from Winch Hill Lane
10		Agricultural shed off Winch Hill Lane, looking southeast.
11		Agricultural Shed off Winch Hill Lane, looking southeast.
12		External areas to agricultural sheds looking east from Winch Hill Lane.

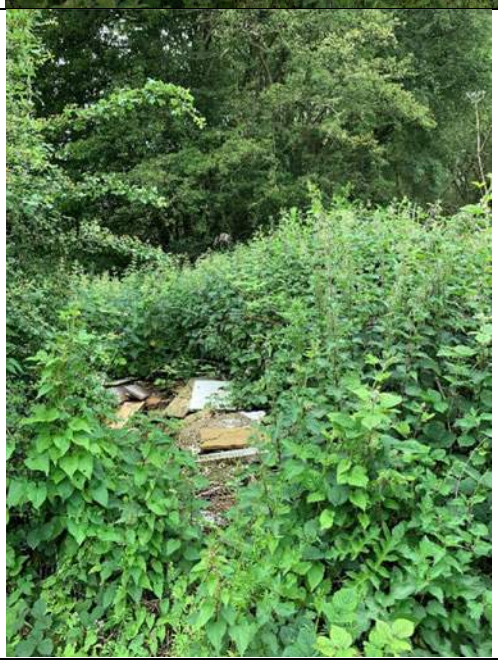
13			Agricultural shed looking northeast from Winch Hill Lane.
14			Eastern façade of agricultural shed, looking north.
15			Made ground to external areas of agricultural sheds.
16			Internal area of agricultural shed looking east.

17		Shed floor.
18		Shed roof, possible asbestos cement.
19		Agricultural shed, looking south.
20		Agricultural shed, broken roofing sheets, looking east.

21		View looking northeast from rear of agricultural sheds.
22		Looking north from rear of agricultural sheds.
23		Looking south from central area of northern land parcel.
24		Looking southeast from central area of northern land parcel.

25		Looking east from central area of northern land parcel.
26		Looking northeast from central area of northern land parcel.
27		Looking north from central area of northern land parcel.
28		Looking east from southwestern corner of northern land parcel.

29		Looking northeast from southwestern corner of northern land parcel.
30		Grass cuttings at southwestern corner of northern land parcel.
31		Looking southeast from northwestern corner of southern land parcel at Winch Hill Lane.
32		Looking southeast from northwestern corner of southern land parcel at Winch Hill Lane.

33		Looking south from northwestern corner of southern land parcel at Winch Hill Lane.
34		Looking northeast from Winch Hill Lane, across southern land parcel.
35		Flytipping in Area B, opposite side of Winch hill Lane.

36		Access track to landing lights looking east from Winch Hill Lane, southern land parcel.
37		Looking northeast from Winch Hill Lane, southern land parcel.
38		Looking southeast from Winch Hill Lane, suthern land parcel.

39		Looing south from Winch Hill Lane, southern land parcel.

SITE WALKOVER PROFORMA

Client Luton Rising

PROJECT: London Luton Airport Expansion Development Consent Order **Project No:261327-05**

SITE DETAILS:

Site:	Area D
Date & Time of Visit:	19.06.19 10.30am
Visit conducted by:	[redacted]
People met/interviewed:	N/A
Address:	The Plateau, Kimpton Road Luton
Postcode:	LU2 0TB

PURPOSE OF SITE VISIT:

The site inspection comprised of a "walkover" to determine the current usage of the site and to visually identify possible sources of pollution, which may have resulted in the release of contamination into the environment. General observations of physical characteristics of the site were made. The survey does not include a structural survey of retaining structures or buildings (where present).

DEVELOPMENT REQUIREMENTS:

Proposed use:	The areas surveyed will form part of the DCO application for the expansion of Luton airport, Area D to be part redeveloped with car parking.

SITE HISTORY:

Previous land use	Area D – agricultural, allotments, subsequently by 1955 a large earthworks platform was formed across southern and central area, site was used for fleet management/car parking by Vauxhall Motor Works. A travelling crane was present on the western area of the site between 1970s and 1990s. Car showroom developed across the northern area by 2002. The site has also been used for airport parking and valeting of cars.

GENERAL SITE DESCRIPTION:

General Site Description Areas of buildings, roads and other features. Topography Boundaries General topography General state of repair	The site comprises three distinct areas; • E1 - Trailer park and coach parking on a large earthworks platform extending across the south eastern and central areas including the earth embankments at the southern, western and northern extents of the platform. • E2 - Vauxhall Fleet Management vehicle test bay, storage shed and car parking, located along the western boundary at the toe of the embankment. • E3 - Vauxhall Car Showroom and workshop across the northern area. E1 - The trailer park is at a significantly higher level than the surrounding areas at 127m AOD, New Airport Way adjacent to the east is at a level of 120m AOD, and Vauxhall Road to the west is at a level of 107m AOD. There is a vehicle access ramp which runs along the southern and eastern boundary to the plateau area. E2 - Vauxhall Fleet Management Operations - is generally at levels commensurate with external pavement to the west (107m AOD), at the northern boundary the area begins to rise toward the car showroom. E3 - The Vauxhall car showroom slopes from southeast to northwest, from approximately 118m AOD to 110m AOD. Two platforms with concrete retaining structures are located at the eastern boundary, landscaped embankments are located to the western boundary and part of the southern boundary along the access road from Vauxhall Road. Concrete steps are located between the car showroom and trailer park at the north western corner of the earthworks platform which provide pedestrian access from Vauxhall Road to the trailer park. A second pedestrian access is provided from New Airport Way at the eastern boundary which links to Kimpton Road at the northeastern corner of the site. This access is currently closed due to the DART construction works. Site boundaries are formed by Kimpton Road to the north, Vauxhall Road to the west, access ramp to the trailer park to the south and part of the eastern boundary. Remainder of the eastern boundary formed by New Airport Way.

Areas of site not visited or inaccessible	No access to the vegetated embankments, No access to internal areas of car showroom/service area No access to portacabins on trailer park Limited access to garage/service areas of Vauxhall Fleet Management and no access to portacabins. Limited access to ramped pedestrian access at the eastern boundary.

BUILT ENVIRONMENT – GENERAL:

Existing Land Use (photographs required)	E1. - Trailer Park (earthworks platform) – 1No. cantilevered modular office used by the trailer park operators for offices, 2No. Portacabins for driver rest area and National Express office located in the north western corner of the site, along with oil spill kit, skips for general waste and metal container. Some tipping was noted along the northern boundary including; old sofas, general littering, wooden pallets, and at the southern boundary glass TV stand, empty IBCs. Main body of site used for trailer and truck parking. National Express Coaches parked at the southern boundary. E2. - Vauxhall Fleet Management – 2No. sheds; large storage shed used for storage of car parts, vehicle testing in small shed (formerly valet area) with offices in 2-storey portacabins, in the north western area of the site. 199litre metal barrels of lubricant stored on pallets in external area outside the sheds. New/used cars parked across the central and southern areas of the site. E3. - Vauxhall Car Showroom and Workshop - building occupied by car showroom and offices with eastern area used for car workshop with valet area to the rear of the building (south). Parking of cars to the boundaries with storage of waste oils and car parts to the east and south of the building.
Site Access location; access suitable for GI plant or demolition plant?	E1. - Vehicle access from ramp at the eastern boundary, pedestrian access at the north western corner via steps from Vauxhall Road. E2. - Vehicle access at the southern boundary from the access road to the trailer park and at the northern boundary off slip road from Vauxhall Road, shared access road with the car showroom. E3. - Access to the rear service area from Vauxhall Road at the western boundary, with two further vehicle access points from Kimpton Road at the northern boundary.
Existing Services Type and general location. Could services be affected by a GI?	E1.- Electrical supply mounted in cable ducting fixed to metal handrail on steps at north western corner. Surface drainage across hardstanding with fall to west/northwest. No other drainage covers noted. E2. - Drainage covers noted. Metal cable ducts to eastern and western boundaries affixed to fence with cabling likely electrics. E3. - Drainage covers noted, likely surface water and foul. Electrical substation on eastern building façade, electrical distribution cabinet at southern façade.

Hardstanding Location, type and repair	E1. - Trailer Park is entirely comprised of hardstanding- concrete and asphalt, which is in average to poor condition, with cracking/crazing, areas of degraded surfacing, potholes and patched repairs. E2. - Concrete/asphalt hardstanding across the southern area used for car parking, hardstanding in average to poor condition. Asphalt to front of building at the northern end of the site in average condition. E3. - Asphalt in good condition, with landscaping to western and northern boundaries.
Site boundary fences, walls, open, state of repair. Is boundary shown adequately on site plan?	E1 -Vehicle barriers are located to western boundary to rear of which is a concrete post and chain-link fence (which is in poor condition showing signs of movement), the fence continues around the southern boundary. A vehicle barrier is located to the eastern boundary with heras fencing forming edge protection at the southern end. Post and chain-link fencing continues around the northeastern corner and a short section of damaged metal paling fence. Vehicle barriers are located along the northern site boundary. Evidence of slope instability was noted on the southern and eastern embankments with netting installed. The platform also appears to have been reduced in size with vehicles brought in away from the edges. The embankments to the west and north are heavily vegetated. Vegetation is present to the top of the southern embankment. The toe of the southern embankment has been excavated back to allow extension of the access ramp carriageway due to the constriction of the MPTE south of the site. E2 - Boundary fencing comprises metal paling and concrete post and chain-link fencing in good condition. Stone-filled gabions are located to the rear of the fence at the northeast corner of the area at the toe of the embankment. E3 - Sheet piling has been installed part-way along the eastern and southern boundaries to the car showroom area to retain the earth embankments beyond. A post and chain-link fence is located to the top of the embankment at the eastern boundary and at the north-eastern corner. Further sections of chain-link fencing and metal paling fencing are located at the southern boundary. A low wooden post and rail fence is located to the remaining boundaries to the rear of landscaping. Fencing generally in good condition.

EXISTING BUILDINGS AND PROCESSES

Were there any buildings or structures on the site at the time of the walkover?	YES
Number, type, size, height, material, repair etc. of building(s).	E1 - 1No. cantilevered modular office. suspended over the embankment at the north western corner of the site, 2No. portacabins. E2 - 2No. sheds of sheet metal construction with concrete flooring, roller shutter doors. 2-storey portacabin offices, located at the northern end of the site. Disused brick building at western

	boundary at toe of embankment toward the southern end, has the appearance of a kiosk. E3 - 1No. building of modern construction with cladding to exterior, occupies the central area of the site. Tiled flooring and concrete screed to service areas. Second smaller car sales pavilion constructed of metal sheeting.		
On going processes	NO		
Past Processes	Formed part of Vauxhall Motor Works, used for fleet management/parking of vehicles.		
- What were they - Raw materials used - Products - Waste residues - methods of waste disposal			
Boilers	**NO**	**Number**	**Location**
Electrics (including sub stations and transformers)	**YES** E1 - Electrical supply appears to be above ground cable E2 - Electrical supply in ducting along fencing. E3 - Substation. Plant compound	**Number** 1 duct 2 ducts 1 1	**Location** Cabling on handrail to steps at north western corner of site Cabling to fencing, to western and eastern boundaries At eastern building façade At southern building facade

Stores	**YES** E1.-Oil spill kit and general waste bins E2 -Storage of car parts and barrels of lubricant in Fleet Management area. E3 -Storage of waste car parts and waste oil filters, petroleum distillate. Storage of contaminated plastics General waste skip.	**Number** 1 2 1bin & small shed 2 bins 2	**Location** North western area of the site Within the garage and external to north East and south of car service area at southern boundary.
Fuel dispensing (petrol, DERV)	**NO**	**Number**	**Location**
Suspected asbestos, Sheeting insulation	**Possibly** E1 -Portacabins and Insulation to cables E2. - Portacabins and kiosk E3. Should not be in buildings constructed post 2000.	**Number**	**Location** Northwest corner of site and steps from Vauxhall Road up to platform At western site boundary
Ventilation/air conditioning	**Yes** E3 air conditioning	**Number** 1	**Location** Used car pavilion at western boundary.
Fire extinguishers	**Likely** None noted at time of visit.	**Number**	**Location**

Hazchem signs Specify	**Yes** E3 - Flammable liquid 199litre drum– petroleum distillate Flammable liquid, small metal container (25l) solvbitume –	**Number** 2 1	**Location** Southern boundary in wooden shed. Contaminated plastics storage area, toward southern site boundary.

<u>CONTAMINATION ISSUES</u>:

Were any of the following noted?

Stressed vegetation	NO
Stained ground / discolouration	NO
Abandoned drains	Unknown
Odours (indicators of soakaways, sumps, discharges into canals or streams). (Do NOT enter manholes. Do NOT inhale gas from standpipes).	NO
Obvious immediate hazards to: public health or safety (including to trespassers); the environment.	E 1 Falling from platform. Areas E2 and E3 secured.
Presence, location and condition of surface deposits and made ground and signs of settlement, subsidence or disturbed ground.	E1 - Fencing shows movement to top of western embankment and netting to southern and eastern embankments. Evidence of possible made ground used to form western embankment E2- Gabions placed at toe of embankment
Any evidence of gas production or underground combustion.	NO
Location of sewers etc.	NO
Position of outfalls to surface water and the nature/condition of any discharges.	NO
Boreholes etc. remaining from previous investigations located and their condition.	NO
Fuel tanks, above and below ground Were any leaks, or any evidence of leaks, detected? location, volume, comments, state of repair.	E3 -Above ground used oil tank, appeared to be staining around the tank. 2No. 199l metal drums of petroleum distillate.
Were suitable portable instruments used to determine the presence, and possible concentrations of hazardous gases used?	NO
Was any limited sampling of surface deposits, surface waters etc. carried out?	NO

GEOTECHNICAL, HYDROLOGICAL AND HYDROGEOLOGICAL ISSUES:

Surface features eg Topography (any comments in addition to General Description at start of proforma)	No additional comments
Surface Water Location and depth of any standing water, and the direction and rate of flow of water in any rivers, streams or canals. Any evidence of flooding?	River Lea is 300m south of the site, no surface waters or ponding evident. No evidence of flooding

Groundwater any evidence of depth to water table? Location of any springs or seepages.	NO

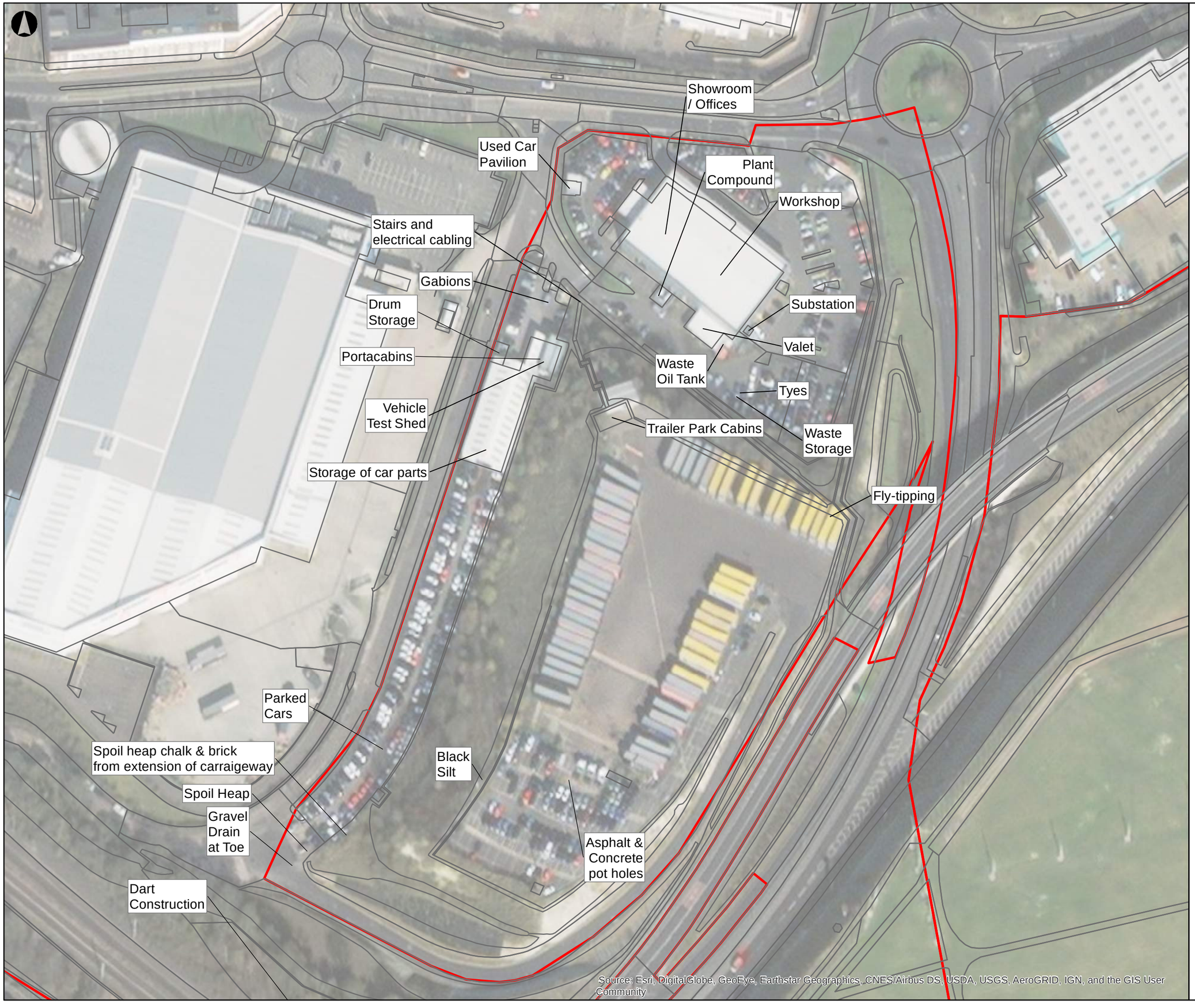
Mining activity and subsidence history. (site observations and desk study).	NO

NEIGHBOURING SITES:

Information about neighbouring sites	Access	Present site use	Condition of surface cover
• North	Easy road access	Vauxhall Factory/development sites	Hard standing
• East	No access	Airport land and agricultural land	Mainly grass/arable crops
• South	Access is possible via road network	Railway line/ Landscaping to bank of River Lea	Dense Trees/grass
• West	Access is possible via road network	Daily Express Print Works and distribution centre/development sites. Railway lines with Retail Park on opposite side of railway.	hard standing

Have there been any potentially contaminative uses of adjacent sites? Details:	YES- Vauxhall Motor Works to the north and west of the site.

Site layout sketch with location of photograph and direction indicated



Legend

DCO Boundary

XX Photograph ID

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Issue	Date	By	Chkd	Appd
P1	19-07-19	ES	RB	TB

Metres
0 15 30 60

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Client

Luton Rising

Job Title

Luton Airport
Preliminary Risk Assessment

Drawing Title

Area D

Scale at A3

1:1,250

Drawing Status

FOR ISSUE

Job No	Drawing No	Issue
245580-00	**Figure 01**	**P1**

0FileLocation

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Photograph number		Description
Area E1		
1		View along western boundary looking south.
2		Oil spill kit at western bundary, looking west.
3		Damage to surfacing at western boundary, looking south.

Photograph number		Description
4		Western boundary looking south, showing former white lines close to the edge.
5		Western boundary, showing movement to fence line, looking south.
6		Southern boundary beyond fenceline showing former edge of asphalt.
7		Southern boundary looking east.

Photograph number		Description
8		Empty IBC containers at southern boundary.
9		Glass TV Stand
10		Eastern boundary looking north
11		Eastern boundary looking north from centre.

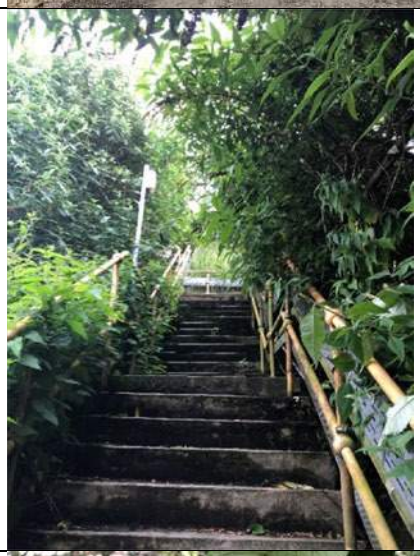
Photograph number		Description
12		Evidence of embankment reinforcement.
13		View acoss plateau looking west.
14		Eastern boundary, looking north.
15		Northeastern area of the site.

Photograph number		Description
16		View across site looking southwest.
17		Flytipping and broken fence in northeastern corner.
18		Flytipping, northern boundary.
19		Eastern boundary looking south.

Photograph number		Description
20		Northern boundary, looking west.
21		View across northern area looking west.
22		Flytipping of sofas at northern boundary, looking east.
23		View looking south from northern boundary.

Photograph number		Description
24		View across site looking southeast.
25		General waste bins, container and portacabin in northwestern area.
26		Eastern embankment showing pavement make-up.
27		Eastern embankment showing protective wire netting.

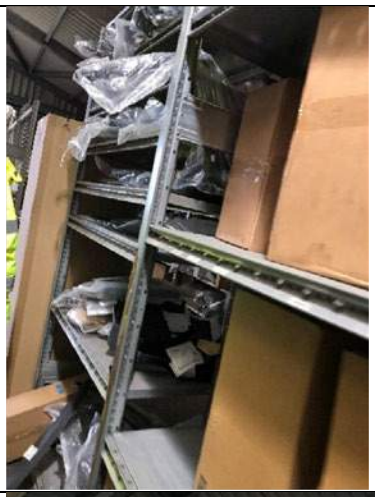
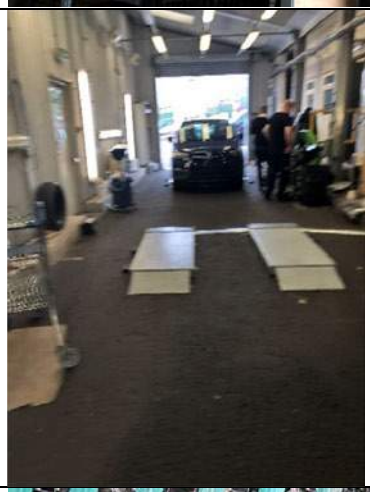
Photograph number		Description
28		Chalk in face of eastern embankment
29		Protective netting to southern embankment
30		Dense vegetation to top of southern embankment.
31		Plastic container, with possible oil inside.

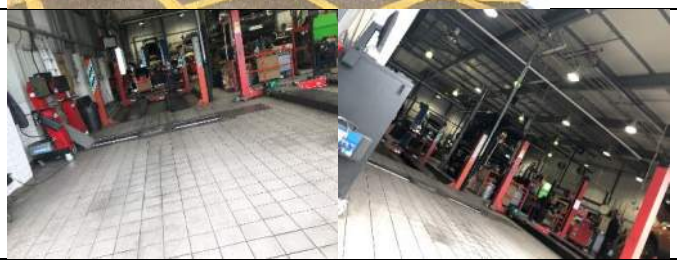
Photograph number		Description
32		View of access ramp to plateau looking east, showing extension to carriageway and new earthwork at toe of embankment.
33		Steps up to northwest corner of plateau and metal ducting on handrail.
34		Insulation to cabling on steps upto plateau.

Photograph number		Description
35		Earth exposed on surface of northern embankment.
Area E2		
36		Looking northeast along western area of the site.
37		Western boundary looking north.
38		Brick kiosk at western boundary.

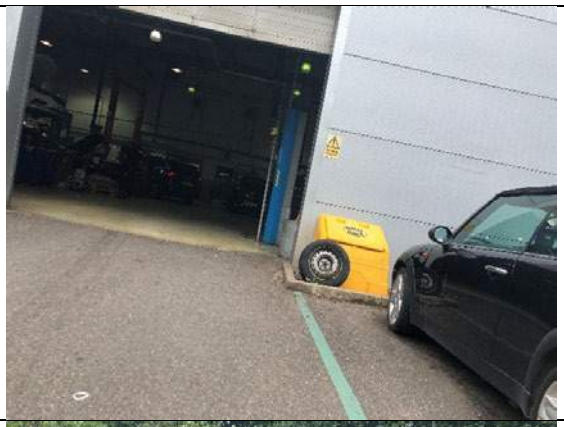
Photograph number		Description
39		Post and chian-link fence at eastern boundary with embankment, looking east.
40		View of embankment to A1 looking east from western site boundary.
41		Southern façade of shed, looking northeast.
42		Ducting and cabling along western boundary

Photograph number		Description
43		Drums of lubricant oil
44		Storage of lubricant oil
45		Shared access to E2 and E3 looking east.
46		Looking southest toward A2, portacabins to background.

Photograph number		Description
47		Car Parts inside shed
48		Stored car parts
49		Vehicle Test Shed looking north.
50		Stone-filled gabion at western boundary

Photograph number		Description
51		Northwestern area of E2 looking north, drums of lubricant to foreground.
	Area E3	
52		Looking north to western boundary, used car pavilion in background.
53		Vehicle Workshop, looking south
54		Vehicle Workshop, looking south.

Photograph number		Description
55		View along eastern façade, looking south.
56		Eastern area, looking south, sheet piled wall to background.
57		Eastern platform, looking south.
58		Used car parts and batteries to front of substation.

Photograph number		Description
59		Rear of workshop, looking west.
60		Waste Storage area at southern boundary, looking southeast.
61		Contaminated plastic storage
62		Waste Oil transfer pump at southern boundary

Photograph number		Description
63		Barrels waste oil filters, fuel tanks, car batteries, hub caps, petroleum distillate barrels.
64		View of southwestern area, looking west.
65		View looking northwest from southern boundary.
66		Waste skip at southern site boundary, looking east.

Photograph number		Description
67		Southern façade of building showing plant compound and valet area, looking east.
68		Footpath at eastern site boundary looking south.
69		Landscaping to New Airport Way, looking south.
70		Landscaping to banking on New Airport Way, looking southeast.

SITE WALKOVER PROFORMA

Client Luton Rising

PROJECT: London Luton Airport Expansion Development Consent Order **Project No:261327-05**

SITE DETAILS:

Site:	Area E
Date & Time of Visit:	19.06.19 9.00am
Visit conducted by:	[redacted]
People met/interviewed:	N/A
Address:	Land East of Winch Hill Lane Eaton Green Road Luton
Postcode:	LU2 9JB

PURPOSE OF SITE VISIT:

The site inspection comprised of a "walkover" to determine the current usage of the site and to visually identify possible sources of pollution, which may have resulted in the release of contamination into the environment. General observations of physical characteristics of the site were made. The survey does not include a structural survey of retaining structures or buildings (where present).

DEVELOPMENT REQUIREMENTS:

Proposed use:	The areas surveyed will form part of the DCO application for the expansion of Luton airport, Area E to be redeveloped with car parking.

SITE HISTORY:

Previous land use (check if awaiting historical map information).	Area E –earthwork mounds during 1940s in the south eastern area these became formalised platforms by 1960 Building in north western area between 1940 to 1960, use unknown.

GENERAL SITE DESCRIPTION:

General Site Description Areas of buildings, roads and other features. Topography Boundaries General topography General state of repair	The site comprises flat areas of concrete/asphalt hardstanding, ranged across 4 levels. The northern area of the site is set at a lower level and is at gradient with the access spur from Parkway Road. From the centre the site steps up on 3 levels to the southeast toward the A1081 New Airport Way. 2No. platforms have been created at each level either side of a central access road with a final platform at the end of the access road. The platforms are retained by brick walls/embanked earth. The final platform in the south eastern corner is surfaced with hardcore/crushed demolition material. The site is bounded by the link road from Parkway Road to New Airport Way at the southwestern and southern boundaries and by the Midlands Mainline Railway at the north eastern boundary, both of which sit on embankments. The north western boundary is formed by an access road which passes beneath the railway to the northeast, to link Parkway Road with the developments north of the railway. The access road is gated and is currently not in use. The embankments to the road and rail infrastructure are heavily vegetated with shrubs and mature trees, and reduce in height toward the southeast as the site rises toward the railway and road levels. No invasive weeds, e.g. Japanese Knotweed were identified in vegetated areas. The hardstanding is generally in average/poor condition with cracking, degraded areas, potholes and patches of reinstatement. Small amounts of localised fly tipping were noted in the embankment to the railway including car seats, possible paint tins, wooden cable reel and made ground/earth, litter. Platform No.4 at the southwestern boundary had evidence of metal girders which had been cut to ground level indicating there may previously have been two small buildings or decked storage. A sign on a brick retaining structure ‘VFM’, which indicates site was used by Vauxhall Fleet Management.

Areas of site not visited or inaccessible	Access to the vegetated embankments, portacabin, brick electrical enclosure.

BUILT ENVIRONMENT – GENERAL:

Existing Land Use (photographs required)	The site is currently used by the Contractor working on the MPTE, for overflow car parking and storage of construction materials. The Contractors site cabins are located in the north western corner of the site. Building materials are being stored in the south eastern area of the lower level and on the platforms. Cars were also parked on two of the platforms and across the lower area. The contractor was connected to the mains electric supply located at the south eastern boundary, a diesel generator was also present on site but no fuel tanks observed. An IBC containing 200l of antifreeze was located on platform 6, at the north eastern boundary.
Site Access location; access suitable for GI plant or demolition plant?	A gated access is located at the north western corner of the site, access is controlled by the Contractor.
Existing Services Type and general location. Could services be affected by a GI?	Drainage identified through the central access road, with surface drainage channels in the concrete on the lower level. Assumed to be a live electric supply being used by the Contractor, electrical cabinet was located at the south eastern boundary on the lower level.
Hardstanding Location, type and repair	The site is almost entirely comprised of hardstanding concrete and asphalt, all of which is in average to poor condition, with cracking, areas of degraded surfacing and patching. At the south eastern corner the site is unmade/hardcore/6F2.
Site boundary fences, walls, open, state of repair. Is boundary shown adequately on site plan?	The site is bounded by metal paling fence and concrete post and chain-link fencing. All appear to be in good condition. Landscaped/vegetated embankments to the rear of the fencing to all boundaries except for the north western boundary.

EXISTING BUILDINGS AND PROCESSES

Were there any buildings or structures on the site at the time of the walkover?	YES
Number, type, size, height, material, repair etc. of building(s).	A small building, former vehicle inspection shed was located at the northern end of the site at the southeast site boundary. Building was in good state of repair with concrete floor and sheet metal walls and roof, metal roller doors were located to either end of the building. Office furniture was being stored plus 1No. IBC likely containing small amount of water and a 25l container of rubber and plastic dressing, with a small volume of residual product noted. Either side of the site entrance was a derelict portacabin (west) and male and female toilet block (east).

	A small brick electrical cabinet was noted at the south eastern boundary between the car wash and the portacabin.		
On going processes	NO		
Past Processes	NO		
- What were they - Raw materials used - Products - Waste residues - methods of waste disposal			
Boilers	**NO**	**Number**	**Location**
Electrics (including sub stations and transformers)	**Possibly** Small brick building, likely electric cabinet	**Number** 1	**Location** On the lower level at southeast boundary to rear of vehicle inspection shed.
Stores	**YES** Informal storage of construction materials on platforms and on the lower level	**Number** 6	**Location** Across the site
Fuel dispensing (petrol, DERV)	**NO**	**Number**	**Location**
Suspected asbestos, Sheeting insulation	**Possibly** Possible fragment of board in hardcore. Possible asbestos in old portacabin/toilet block	**Number** unknown	**Location** At southern end of the site and site entrance
Ventilation/air conditioning	**NO**	**Number**	**Location**
Fire extinguishers	**Possibly** Used by Contractor	**Number**	**Location**
Hazchem signs Specify	**No**	**Number**	**Location**

CONTAMINATION ISSUES:

Were any of the following noted?

Stressed vegetation	NO
Stained ground / discolouration	NO
Abandoned drains	POSSIBLY- former office building on lower level.
Odours (indicators of soakaways, sumps, discharges into canals or streams). (Do NOT enter manholes. Do NOT inhale gas from standpipes).	NO
Obvious immediate hazards to: public health or safety (including to trespassers); the environment.	Falling from platforms
Presence, location and condition of surface deposits and made ground and signs of settlement, subsidence or disturbed ground.	Yes – small stockpiles of made ground to site boundaries, possible made ground used in embankments to retaining structures Retaining wall to platform 1 has significant crack on northeast corner.
Any evidence of gas production or underground combustion.	NO
Location of sewers etc.	POSSIBLE connection to toilets
Position of outfalls to surface water and the nature/condition of any discharges.	NO
Boreholes etc. remaining from previous investigations located and their condition.	NO
Fuel tanks, above and below ground Were any leaks, or any evidence of leaks, detected? location, volume, comments, state of repair.	NO
Were suitable portable instruments used to determine the presence, and possible concentrations of hazardous gases used?	NO
Was any limited sampling of surface deposits, surface waters etc. carried out?	NO

GEOTECHNICAL, HYDROLOGICAL AND HYDROGEOLOGICAL ISSUES:

Surface features eg Topography (any comments in addition to General Description at start of proforma)	No additional comments
Surface Water Location and depth of any standing water, and the direction and rate of flow of water in any rivers, streams or canals. Any evidence of flooding?	River Lea is 300m south of the site, no surface waters or ponding evident. No evidence of flooding

Groundwater any evidence of depth to water table? Location of any springs or seepages.	NO

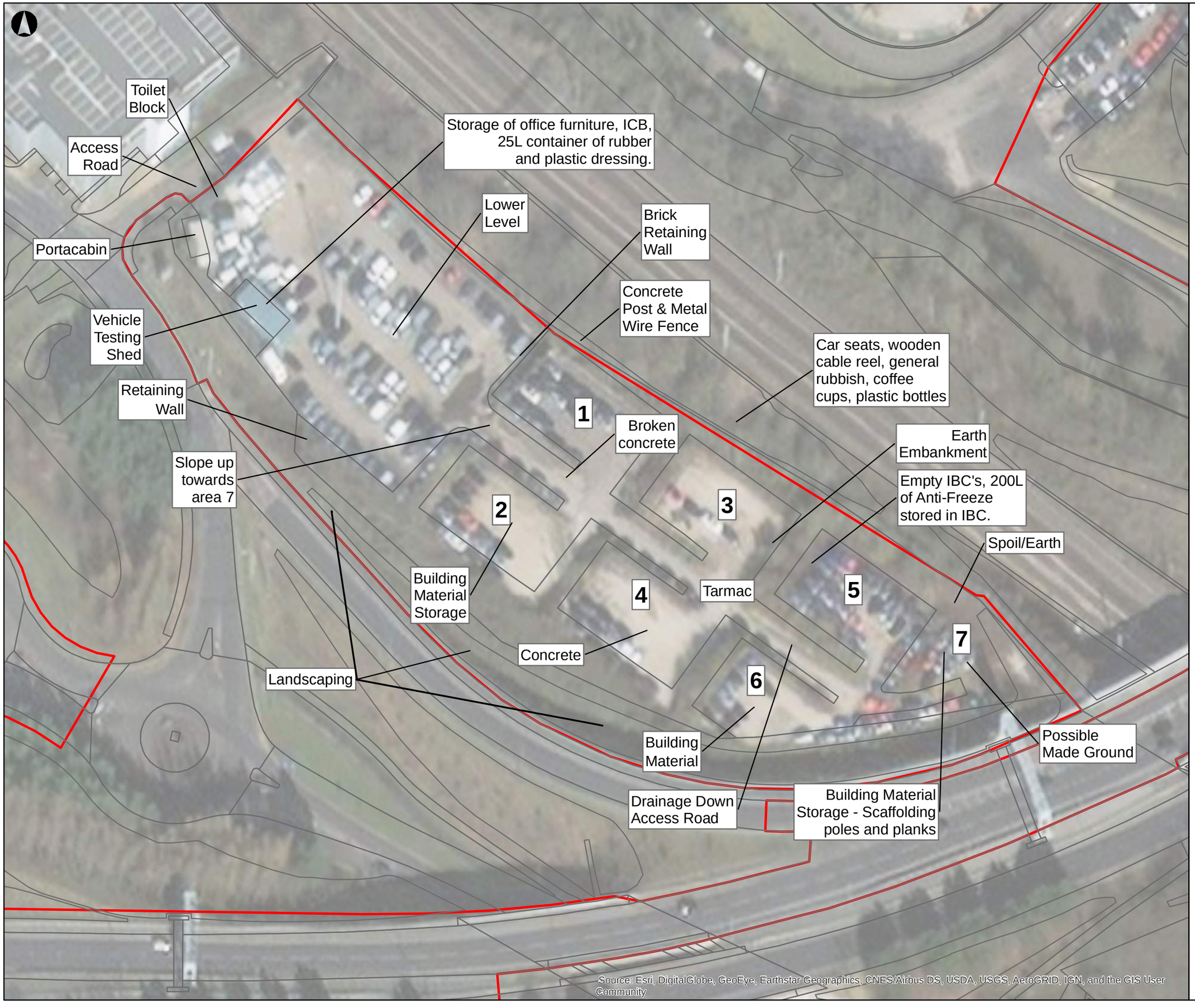
Mining activity and subsidence history. (site observations and desk study).	NO

NEIGHBOURING SITES:

Information about neighbouring sites	Access	Present site use	Condition of surface cover
• Northwest of the site	Yes via road	Multi-storey car park/retail park	Hard standing
• Northeast of the site	Railway line – no access. No access beneath railway to sites to the north. Access via surrounding roads	Printing works/trailer park/car sales /active development sites	Hard standing, some landscaping
• East of the site	No access	Airport land and agricultural land	Mainly grass/arable crops
• South of the site	Access is possible via road	Landscaping to bank of River Lea	Dense Trees
• West of the site	Easy access is possible via road	Public leisure premises	Grass and hard standing

Have there been any potentially contaminative uses of adjacent sites? Details:	YES- Vauxhall Motor Works to the north of the site.

Site layout sketch with location of photograph and direction indicated



Legend

DCO Boundary

XXX

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Issue	Date	By	Chkd	Appd
P1	19-07-19	ES	RB	TB

Metres
0 10 20 40

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Client

Luton Rising

Job Title

Luton Airport
Preliminary Risk Assessment

Drawing Title

Area E

Scale at A3

1:750

Drawing Status

FOR ISSUE

Job No	Drawing No	Issue
245580-00	Figure 01	P1

oFileLocation

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Photograph number		Description
1		Vehicle Inspection Shed, looking south
2		Brick utilities and temporary electric distribution box, at southwestern boundary.
3		Landscaped embankment to southwestern boundary looking south

4		Toilet Block at northern boundary, looking north.
5		View across northern area of site, looking north.
6		View of retaining wall to platform 1 and damage at northeast corner Looking southeast.
7		Sign on retaining wall, indicating possible previous use by Vauxhall Motors.

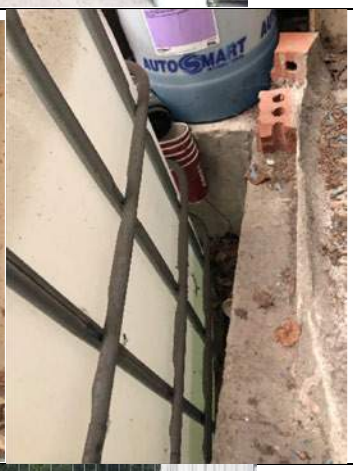
8		Parking on platform1 showing northeastern boundary, looking north.
9		View from platform 3 looking north over platform 1.
10		Level 1 platform retaining wall to west, and central access road looking south.
11		Storage of building materials, platform 2 looking southwest.

12		Platform No. 2, looking North.
13		Flytipping at northeastern boundary at side of platform 3.
14		Spoil mound in undergrowth at southeast corner of platform 3.
15		Paint tin buried in earth, platform 3

16		Platform 5, looking north
17		View looking north down central access road.
18		View from platform 6, looking north over platform 4.

19		Cut down steel girders, platform 4.
20		View looking north over platform 5 from platform 7.
21		IBC with antifreeze, platform 5.
22		Platform 7, looking southeast.

23		Small stockpile of old asphalt/road chippings at edge of Platform 7, looking east.
24		Fragment of fibrous material, possible asbestos.
25		Diesel generator, lower level at southwestern boundary, looking south

26		Storage of construction materials in southwestern corner of lower level, looking south.
27		Storage of furniture in vehicle inspection shed.
28		25l plastic container of rubber and plasticsdressing and IBC with possible water content inside vehicle inspection shed.
29		Portacabins at northeastern corner of site.

Appendix E – **Historical Map Review**

E1 Review of Historical Maps

Table F1.1: Review of historical mapping covering Main Application Site; Areas A, B,C, Existing Airport Land (including LLAOL Contractor's Compound) and Airport Access Road

		Development Area					
Year	**Mapping type and scale**	**Area A**	**Area B**	**Area C**	**Existing Airport Land (including LLOAL Contractor's Compound)**	**Airport Access Road**	**Surrounding the site (within 250m)**
1879	County series 1:10,560	Predominantly agricultural land. Falconer's Hall was shown at southwest corner of site An old gravel pit was present at the northwestern corner of the site.	Footpath/track was shown running along the boundary between areas A and B linking surrounding farmland to the track at the northern boundary (currently Eaton Green Road) A 'well 'was noted at the northern site boundary. Winchhill Wood encroached onto the southeastern corner of the site.	No coverage of the site.	Predominantly agricultural land. Falconer's Hall is present towards the central area adjacent to Area A. Eaton Green Farm is present towards the northwest area. A clay pit and brick and tile works are located outside the boundary approximately 80m west of the farm. Spittlesea Wood is present on the western boundary. An old chalk pit is present on the south western boundary. The Great Northern Railway is approximately 100m south west of the site.	The south western extent of the Airport Access Road crosses through the agricultural land and through Spittlesea Wood. As the route curves towards the northeast it crosses into the "Existing Airport Land" area adjacent and south to the clay pit and brick and tile works but north of Eaton Green Farm. The route continues east through Areas A and B south of Wigmore hall.	Wigmore Hall was present on the northern boundary of Area B with stables/outbuildings to the north of it and pond adjacent to the east. Surrounding land was agricultural with occasional pockets of woodland and orchards. No around Area C

		Development Area					
Year	Mapping type and scale	Area A	Area B	Area C	Existing Airport Land (including LLOAL Contractor's Compound)	Airport Access Road	Surrounding the site (within 250m)
					Winchill Wood is present on the south eastern extent.		
1884	County series 1:10,560	No coverage of the site	Winchill Farm was present at the eastern site boundary, off Winch Hill Lane. A small woodland was noted in the centre of the site, northeast of Winchhill Farm.	The site was agricultural land with a small area of woodland at the northeastern corner identified as Stockinghill Spring.	No coverage of the site	No coverage of the site	Darleyhall a small hamlet with public house was located at the northern boundary to Area C.
1887-1899	County Series 1:10,560	No significant change	No significant change.	Winchhill Farm outbuildings/barns located at western site boundary opposite Winchhill Farm.	No significant change.	No significant change.	Old clay pits were recorded east of Area C.
1899-1900	County series 1:10,560	A 'well' was shown at Falconer's Hall	No significant change.	Footpaths cross the northern area of the site. Woodland at northeastern boundary no longer noted.	No significant change to the majority of the site. Spittlesea Hospital of Infectious Diseases is present adjacent and west of the boundary. The clay pit and brick and tile works is no	No significant change.	A sewage farm is present to the west of the existing airport boundary.

		Development Area					
Year	**Mapping type and scale**	**Area A**	**Area B**	**Area C**	**Existing Airport Land (including LLOAL Contractor's Compound)**	**Airport Access Road**	**Surrounding the site (within 250m)**
					longer shown o the west of Eaton Green Farm.		
1922-1925	County series 1:10,560	Old Gravel Pit was no longer noted although the pit extent was still recorded. Falconer's hall was no longer shown. Small pond shown in the southwest corner of the site.	Wigmore Hall cottages were shown at the northern boundary adjacent to the well.	No significant change	No significant change.	The south western extent of the site crosses allotments and the eastern boundary of Luton Corporation Sewage Farm which has expanded slightly.	Sewage works had expanded with a large number of sedimentation tanks filter beds and sewage tanks noted. A pit was shown 100 m northwest of the site.
1947-	County series 1:10,560	No significant change.	No significant change	No significant change	No significant change.	No significant change.	New housing developments from northwest of Area A. Spittlesea Hospital had expanded.

		Development Area					
Year	**Mapping type and scale**	**Area A**	**Area B**	**Area C**	**Existing Airport Land (including LLOAL Contractor's Compound)**	**Airport Access Road**	**Surrounding the site (within 250m)**
1960	County series 1:10,560	The central part of the site and along the western boundary was shown as rough pasture. An area of approximately 100 m x 150 m in the south of the site was shown as refuse heap. A track was shown along the western boundary. A small building was marked in the north of the site.	Wigmore Hall cottages were no longer shown, although the well was still noted. The track at the western boundary had been formalised	No significant change	The area is shown to have been developed into an Airport – see additional detail of the 1:2,500 National Grid Map below.	See detail of 1:2,500 National Grid Map below.	No significant changes
1961-1962	National Grid 1:2,500	No coverage	No coverage	No coverage	Luton Airport is shown across the entirety of the western area. Eaton Green Farm is no longer shown. The development includes buildings labelled as "works" with smaller buildings placed within bunded areas.	Spittlesea Hospital has expanded to the south west and is directly along the proposed alignment. The sewage works have been redeveloped with numerous settling ponds and buildings denoted as works. The proposed route traverses an escarpment	

		Development Area					
Year	Mapping type and scale	Area A	Area B	Area C	Existing Airport Land (including LLOAL Contractor's Compound)	Airport Access Road	Surrounding the site (within 250m)
					Mapping for the eastern extent of the site still shows agricultural land.	along Eaton Green Road and directly across Percival Works. There is no coverage of the eastern extents of the proposed route across Areas A and B.	
1967	National Grid 1:2,500	No coverage	No coverage	No coverage	Limited coverage. No significant changes where mapping available.	Limited coverage. No significant changes where mapping available.	Limited coverage. A number of tanks are shown to be present at the works southwest of the site.

		Development Area					
Year	Mapping type and scale	Area A	Area B	Area C	Existing Airport Land (including LLOAL Contractor's Compound)	Airport Access Road	Surrounding the site (within 250m)
1971	National Grid 1:2,500	Refuse tip noted in the southern area.	A new rectangular wooded area was noted in the central area of the site aligned north to south. Winch Hill Cottage noted at the western site boundary. New buildings had been added to Winchhill Farm. New Winchhill Cottages developed south of Winchhill Farm.	No significant change	Luton Airport and the existing runway is shown across the entirety of the site. The runway lies towards the southern extent in a south west to north east configuration. The main airport buildings are present towards the western extent. Coverage is limited towards the north west area however a series of industrial units or possible hangars are present. A building with large tanks is present towards the middle western area. It is possible that this building is a fuelling area.	Limited coverage across the western extent of the route. The proposed alignment traverses the settling ponds and possible fuelling depot identified within the Existing Airport Land. Coverage is limited within the north western extent however the surrounding coverage (and later maps) indicate the alignment to traverse through an area of built up industrial units. The alignment traverses through Percival Works which are recorded as Engineering Works, across Luton Airport and Refuse Tip through Area A.	Wigmore Hall, was identified as Wigmore Hall Farm and buildings to the north had been expanded; several circular tanks were identified. A drain was shown at the southern boundary of Area B and a small building.
1975	National Grid 1:10,060	The majority of the site was recorded as refuse heap with two tracks running from the north to the centre of the site.	Landfilling identified to encroach into the central area of the site. The well at the northern boundary was no longer noted. Small woodland in the central area of	Winch Hill House and a plantation located in the southern area of the site. Winch Hill identified in the central	No significant change. See detail of 1:2,500 National Grid Map above.	No significant change. See detail of 1:2,500 National Grid Map above.	Area of landfilling shown to extend outside the western site boundary of Area A. North of which is an area of car park. Winchhill Wood had been removed, apart from a small pocket remaining in Area B,

		Development Area					
Year	Mapping type and scale	Area A	Area B	Area C	Existing Airport Land (including LLOAL Contractor's Compound)	Airport Access Road	Surrounding the site (within 250m)
		Additional small buildings had been added in the northwest of the site.	the site was no longer noted.	southern area of the site, high point of 140m AOD.			for creation of the eastern end of the runway. A sports ground with pavilion, tennis courts and bowling green were shown 50 m northwest of the site. A drain was shown just off the southern boundary to Area B. An engineering works building was identified at the northern boundary with Area B at Wandon End. Breachwood Green had expanded, east of Area C. Residential properties had been built on the area of old clay pits.
1981	National Grid 1:1,250	No coverage	No coverage	No coverage	Limited coverage of the mid, eastern and southwestern extents. Towards the north west there is little change. Where previous mapping had limited coverage Percival Way is shown with numerous non-descript buildings on either side.	Limited coverage of the eastern extents. There is limited change shown in the south west. The number of settling ponds have been reduced and the works adjacent to the site have expanded. Towards the north west where previous mapping had limited coverage Percival Way is shown	A Rifle Range was shown adjacent to the bowling green to the northeast of Area A.

		Development Area					
Year	Mapping type and scale	Area A	Area B	Area C	Existing Airport Land (including LLOAL Contractor's Compound)	Airport Access Road	Surrounding the site (within 250m)
						with numerous non-descript buildings on either side.	

		Development Area					
Year	**Mapping type and scale**	**Area A**	**Area B**	**Area C**	**Existing Airport Land (including LLOAL Contractor's Compound)**	**Airport Access Road**	**Surrounding the site (within 250m)**
1985	National Grid 1:10,000	The site was identified as 'Workings'. The configuration of the tracks within the site has changed. Two buildings were present; one in the north and one in the centre of the site. An area of raised ground was shown around the building in the centre of the site. In the northwest of the site an area was shown as bracken	Landfilling was no longer recorded	No significant change	A fire station and car park are shown towards the mid-western extent.	No significant change	Landfilling no longer identified outside the western boundary Small rectangular area with embankments to southern and western boundaries at the centre of the western boundary. Car park at the western boundary had expanded to the west and the industrial area and engineering buildings cleared. Half of the sports ground to the northwest had been replaced by residential housing, the remainder identified as a recreation ground. A commercial centre was being developed 250m north of Area A
1989-1993	National Grid 1:1,250	The northern part of the site is identified as 'Playing field'	Wigmore Valley Park playgrounds, allotment gardens and community centre developed in Core Area, remainder identified as playing fields.	No significant change	No significant change. No coverage for the western extent of the site.	No coverage for the site.	A hotel 'Wigmore Hall Hotel' had been developed at the northern site boundary on an area formerly occupied by Wigmore Hall.

		Development Area					
Year	Mapping type and scale	Area A	Area B	Area C	Existing Airport Land (including LLOAL Contractor's Compound)	Airport Access Road	Surrounding the site (within 250m)
			Access into the site provided from Eaton Green Road.				
1990	National Grid 1:2,500	The northern part of the site was identified as 'Playing field' and the southern part as 'Landfill Site', a track separated the two areas. A rectangular building within the western site boundary appeared to be linked to the public tip, off-site to the west.		No significant change	No significant change	No coverage for the site.	Rectangular embanked area at the western boundary identified as a refuse tip(public). Small tank noted at the southern boundary of the tip. Grass runway noted at western site boundary.
1991	National Grid 1:10,000	No significant change	Northwestern area identified as playing fields and trees noted.	No significant change	No significant change	No significant change	The area to the north of the site boundary (Areas A and B) was now largely residential with the exception of Wigmore Park Centre (commercial). Wigmore Hall Farm had been replaced by housing and Wigmore Hall was noted to be a hotel. A balancing pond was recorded at the northern

		Development Area					
Year	Mapping type and scale	Area A	Area B	Area C	Existing Airport Land (including LLOAL Contractor's Compound)	Airport Access Road	Surrounding the site (within 250m)
							boundary of Area B, associated with the new housing estate to the north. The works building at Wandon End remained. New development of the former industrial area to the west of Area A.
1993	National Grid 1:2,500	Incomplete coverage	Incomplete coverage	No coverage	London Luton Airport has expanded with the additional of further taxiways	No significant change	Two tanks are now shown approximately 200 m south of the boundary.
2002	National Grid 1:10,000	The workings were identified 'disused', rough pasture noted across the area. A track was noted running north-south through the western area linking to the airport land ta the southern boundary.	An area of allotment gardens was shown in the north of the playing fields. A small building had been constructed in the northern area south of the hotel. A small pond was identified south of Winchhill Wood at the southern site boundary. Old Winch Hill Cottage noted at the eastern site boundary.	No significant change	Luton airport has expanded with further building and roads and an expanded terminal building. The petrol filling station had been removed.	The works towards the south western extents are no longer shown.	Area of tipping identified in a rectangular area ta the western site boundary (currently Household Waste Recycling Site). The car park to the west had changed configuration. A drain was present on the western boundary of the car park. A new building was noted south of the area of tipping at the western boundary to Area A. Several small rectangular features were noted 10 m from the southeastern boundary.

		Development Area					
Year	**Mapping type and scale**	**Area A**	**Area B**	**Area C**	**Existing Airport Land (including LLOAL Contractor's Compound)**	**Airport Access Road**	**Surrounding the site (within 250m)**
							The balancing pond was noted at the northern boundary in the area of the former gravel pit, and a second one at the northwestern boundary adjacent an area of car parking. Additional housing had been added to the north of Area B.
2010	National Grid 1:10,000	No significant change	No significant change	No significant change	The Terminal is shown to have expanded. There has been minor modifications to the non-descript industrial buildings within the north western extent. A hotel is present within the south western area.	No significant change	The rectangular area at the western boundary to Area A, previously noted as tipping was identified as a Recycling Centre. A new airport building was noted at the western site boundary.
2014	OS Small Scale 1:10,000	No significant change.	Winchhill Farm and New Winchhill Cottages were no longer identified.	No significant change	No significant change	No significant change	Additional roads had been developed south of the site on airport land and three balancing ponds added.

Table F1-2: Review of historical mapping/aerial photography covering Areas D and E

Year	Mapping type and scale/photo reference	Area D	Area E	Surrounding the site (within 250m)
1879	County Series 1:10,560	50m south the Midland railway is shown. 100m south is the Great Northern Railway.	The site is shown as unused land. Bordered by the Midland railway to the north and Great Northern Railway to the south.	The River Lee is shown 200m south westward. Unidentified buildings are located between 10m and 25m from the southern boundary. Woodland is shown 50m southward.
1880	OS County Series 1:2,500	No significant change.	No significant change.	No significant change.
1884	County Series 1:10,560	No coverage.	No coverage.	No coverage.
1899	County Series 1:10,560	No coverage	No coverage	No coverage.

Year	Mapping type and scale/photo reference	Area D	Area E	Surrounding the site (within 250m)
1900	County Series 1:10,560	A rifle range is shown in the southern portion of the site.	No significant change.	Sewage tanks shown 80m north, associated to "Sewage Farm (Luton Corporation)" located 120m north. Watercress beds are located 150m southwest.
1901	OS County Series 1:2,500	No significant change.	No significant change.	No significant change.
1922	County Series 1:10,560	No significant change.	No significant change.	The sewage tanks north have expanded, with the addition of an additional tank. Recreational ground is located 150m to the north. 100m westward an Engineering Works is shown. Allotments are shown 100m north east
1924	OS county Series 1:2,500	No significant change.	No significant change.	No significant change.
1938	County Series 1:10,560	No significant change.	The Great Northern Railway has been renamed to London North East Rail (L.N.E.R.)	The engineering works to the west have expanded and now border the site, along the Vauxhall Road.
1941	RAF_HLA_111_RP_0005	On-site the plot looks to be agricultural land possibly allotments.	A series of earthwork mounds are present on-site, unable to ascertain the nature of these features. North of the site railway sidings and industrial buildings are shown.	The engineering works are denoted as Motor works building shown adjacent to the west of the plot.
1946	RAF_CPE_UK_1779_RP_3385	Allotments still present on-site.	Two of the earthwork mounds are no longer visible on-site. Buildings are shown in the north west of the site.	No significant change

Year	Mapping type and scale/photo reference	Area D	Area E	Surrounding the site (within 250m)
1947	County Series 1:10,560	Two parallel minor roads run north to south through the site.	On-site, rectangular features are shown, in addition to two smaller buildings. .	Further expansion of the motor works with additional buildings constructed. The allotments to the north west have been replaced with a large industrial building. Four rectangular structures are shown adjacent to the north west
1955	RAF_543_1426_2f43_0409	A large earth work has been constructed on the southern portion of the plot. The north of the site is being used as vehicle parking, with some further parking atop the earthwork mound.	Stockpiles are shown in place of the earth mounds.	Buildings in the north west of the site are no longer shown, with the area being used for vehicle parking.
1960	County Series 10,560	Some buildings within the motor works are no longer shown.	The watercress beds south west are no longer labelled.	The sewage farm north is no longer shown, with a large industrial building present adjacent. Sidings and two buildings are now shown northwest of the plot.
1961	RAF_82_1204+F44_0004	The profile of the earthwork platform has been modified. The north of the plot is still used for car parking	North west of the site is now shown to being used for vehicle storage. Stockpiles are still present in the rest of the plot	No significant change.
1962	OS National Grid 1:2,500	Buildings associated with the motor works are now present in the north eastern corner of the plot. A significant raised earthwork platform is shown covering the majority of the site, with the rifle range no longer shown.	In the west of the site a miscellaneous building is shown. The east of the site is shown as three earthwork platforms rising in level eastwards.	The motor works to the west has expanded further, now within 25m of the west boundary. North of the site further buildings are shown 50m away.

Year	Mapping type and scale/photo reference	Area D	Area E	Surrounding the site (within 250m)
1969	OS_69110_v_235	The top of the earthwork platform has been expanded and covered in hard standing and is being used for vehicle parking.	Vehicle parking has returned in the north west of the site, with the stockpiles still present across the remainder of the plot.	No significant changes
1974	OS National Grid 1:2,500	Partial coverage. Access track now visible to the raised platform.	The railway no longer has tracks shown.	No significant changes
1977	National Grid 1:10,000	Further expansion of the motor works to the west and north west.	The L.N.E.R railway is now shown as dismantled.	250m east Luton airport runway is shown. Works are shown 200m northeast. 50m north west modifications have been made to the buildings present. A running track is shown 200m west. In addition to a miniature rifle range. The allotments 250m north west are no longer shown with a bowling green now in their location.
1984	OS National Grid 1:2,500	25 m eastwards the A505 “Airport Way” has been constructed	Woodland south of the site is no longer shown.	No significant changes
1985	OS national Grid 1:10,000	A road is now shown bordering the east of the plot within a cutting.	A road is now shown bordering the east of the plot	50m north west a depot has been constructed
1986	OS National Grid 1:2,500	Limited coverage, no change visible.	Limited coverage.	Limited coverage
1991	OS National Grid 1:10,000	The works building adjacent westward is no longer shown.	The works north eastward has undergone changes to layout. With the buildings adjacent to the plot no longer shown.	The depot northeast of the site has expanded towards the airport.
1993	OS National Grid 1:2,500	Limited coverage. The land to the west has been shown to be cleared.	Building in the west of the site is no longer shown.	Limited coverage

Year	Mapping type and scale/photo reference	Area D	Area E	Surrounding the site (within 250m)
2002	OS National Grid 1:10,000	The extent of the earth work platform shown has been reduced. Additional works buildings westward have been demolished. With a vacant plot shown adjacent to the site.	. No significant changes are shown	20m north westward of the plot a large building is now shown. A railway station is now shown 250m north west of the plot. 250m west the running track is no longer shown with a sports centre now occupying the land
2010	OS National Grid 1:10,000	In the north of the site two buildings are shown.	No significant changes are shown	The vacant plot adjacent to the west has been constructed upon, with a large building constructed.
2014	OS National Grid 1:10,000	The railway station is now labelled as "Luton Airport Parkway"	Directly along the southern boundary a minor road is now shown.	No significant change.

Table F1-3: Summary of historical mapping for Off-site Highway Interventions

Area	Summary
Eaton Green Road/Frank Lester Way	• Eaton Green Road is present on the earliest mapping (1879) Frank Lester Way was not developed until 1960, at which time works units belonging to Percival works were identified to either side. The roundabout was added in 2001.
Eaton Green Road/ Lalleford Road	• Earliest mapping (1880) shows the site to comprise of a road surrounded by agricultural land. • By the 1960s development has occurred within the surrounding area including the presence of Percival Aircraft Works which were located adjacent to the site.
Eaton Green Road/Wigmore Lane	• Earliest mapping (1880) shows the site to comprise a crossroads surrounded by open fields. • No significant development occurs until the 1960s where Eaton Green Landfill is shown to be present off site. By 1970s mapping the landfill is shown to be adjacent and along the border of the site. • 1980 mapping shows the Thames Water Storage pond to the south and residential housing to the west. Light commercial buildings including a petrol station are shown to have been developed adjacent and to the north.
Eaton Green Road Roundabout	• Earliest mapping (1880) shows the site to be agricultural land, with Eaton Green Road already developed. • The 1922-25 mapping recorded no change to the site, a sewage farm had been developed, and sedimentation tanks are present, approximately 200m south. • By 1938 Eaton Valley Road and Hawarden Road have been constructed at the western site boundary.

Area	Summary
	• 1960 mapping indicates the sewage farm to the south has been removed and housing developed to the north of the site. • By 1974-75 the moror works had expanded to be within 100m south west of the site and a garage approximately 100m north east. • The Eaton Green Roundabout is constructed by 1985 with Vauxhall Road to the north and south. A car park is noted at the south eastern site boundary accessed from the roundabout. • No further changes of note.
Wigmore Lane/Crawley Green Road	• Earliest mapping (1880) shows the site to comprises of a crossroads of between Wigmore Lane and Eaton Green Road, surrounded by fields. • A small chalk pit is present in 1901 mapping and by 1960 mapping a small building has been constructed within. • 1970 mapping shows a small filter bed to have been constructed adjacent to the north west. By the 1980s the surrounding area has been developed into residential properties and the current roundabout had been constructed.
Crawley Green Road/Lalleford Road	• Earliest mapping (1880) shows the site to comprise a road following the current Crawley Green Road through the northern area. The surrounding area consist of open fields. • The road has been developed by the 1960s into a “T” junction between Crawley Green Road and Lalleford road with access to Fermor Road. • Additional residential buildings are developed around the road in the 1970s and 1980s.
Windmill Road / Kimpton Road	• Earliest mapping shows the site to comprise of a road and underpass beneath a rail embankment which intersects the site in the east. Off-site land uses include a sewage works 110m to the west and a brass and iron foundry 150m north • The Brass and Iron Foundry expands to the south and adjacent to the site by 1901. Additional land adjacent and east of the site is designated as a sewage farm. A Dyeing and Bleaching Works is present 200m to the north. • 1920 mapping shows additional filter beds within the sewage works to the west. The Sewage farm is shown to be allotment gardens. A cemetery to the north has expanded to be within 160m of the site. • 1960 mapping shows the development of Vauxhall Motor Works adjacent to the east. The Sewage Works are no longer present, and a Depot and Abattoir are present. The Dyeing and Bleaching works are shown as a depot and Laundry building. • 1970 mapping shows that the site has been raised slightly to accommodate a large Motor Vehicle Works to the west, replacing the Abattoir and Depot. • By 2002, the most southern rail line has been dismantled and converted to a dedicated bus route.

Area	Summary
Windmill Road / Manor Road / St Mary's Road / Crawley Green Road	• Earliest mapping (1880) shows the site to be situated on open space. Lea Road transects the centre of the site west to east and bridges across the River Lea which flows in a south easterly direction. The eastern boundary of the site comprises a small unnamed road trending to the south east. A Boiler Engineering Works is present 130m to the north. Two rail lines are present trending from a north west to south east direction 95m to the north east. A cemetery is present beyond the rail lines 220m to the north east. A Brass and Iron Foundry is present 105m east. A sewage works is present 200m to the south. • By 1901 residential properties had been constructed within the site boundary. The south eastern extent of the site is shown to overlap a Dyeing and Bleaching Works. • 1920 mapping shows additional residential properties within the site boundary. The Boiler and Engineering Works has expanded with dedicated rail connections and an Electricity Station, Yard and Fire Station is present 60m to the north west. • By the 1960s some of the residential properties have been replaced by car parks. The Dyeing and Bleaching Works is now to be a Depot. A Laundry building is also present within this area. The electricity station and boiler engineering works are shown as non-descript works. A hat factory is shown adjacent to the south west in the 1970s • By the 1980s the existing roundabout is shown to have been constructed. The electricity generating station is no longer present. The hat factory is no longer present.
A1081/London Road (north)	• Earliest mapping (1880) shows the site to consist of open fields with London Road and Kidney Wood forming the north eastern boundary. • Little development is shown to occur until the 1960s where a roundabout has been constructed within the northern extent of the site linking the A1091 and M1 link road through the centre of the site. • 2015 aerial imagery shows the roundabout to have been reconfigured into the current road alignment
A1081/London Road (south)	• Earliest mapping (1879), site undeveloped agricultural land, London Road, approximately 100m to east, Newlands Farm at south west boundary and a small chalk pit approximately 50m south. • 1960 A1081 connection from M1 to London Road constructed approximately 180m north • 2020 A1081/London Road (south) junction constructed and north junction to link to A1081, previous alignment of London Road to west now local access road.
M1 J10	• Earliest mapping shows the site to largely comprise of open fields. The southern area of the site extends into Pepperstock. A small unnamed road intersects the north western extent of the site. A graveyard is present 150m north of the site. • The M1 motorway and link road is shown to have been constructed by the 1960s. • 2015 aerial imagery shows the M1 link road in the east to have been replaced by A1081 Airport Way.

Area	Summary
Hitchin Junctions	
A602 Park Way/A505 Upper Tilehouse Street	• Earliest mapping (1880) shows the site to consist of a road junction lined with residential and commercial properties. An Iron Foundry is present 50m to the east. Burial grounds are present 50m to the south east. The surrounding area consist of a mixture of light commercial and residential buildings. • By the 1920s the Iron Foundry building to be unlabelled however a tank is now present. Additional residential development has occurred 50m to the north east. A fire station is present 150m to the north east. • 1960 mapping shows the junction to have been modified with some residential properties demolished. Two garages are shown adjacent to the south east of the site. • By the 1980s additional residential properties on site have been demolished. An additional garage is present 100m to the north. • By 1990 mapping the road has been modified to its current alignment. • 2007 aerial imagery shows the two garages to the south east to be under development and are shown as residential properties in 2012 aerial imagery. • 2013 aerial imagery show the garage to the north to have been redeveloped into residential properties.
A505 Moormead Hill Offley Road/B655 Pirton Road/Upper Tilehouse Street	• Earliest mapping (1880) shows the site to consist of Tilehouse Street and two unnamed roads. The site is lined with residential properties along the southern boundary and a Timber Yard along the northern boundary. The surrounding land use is largely open fields to the north, west and south with residential areas to the east. • In the 1920s the timber yard is shown to have been replaced by allotment gardens. • 1960 mapping shows Tilehouse Street to have widened to the north. The allotment gardens have been replaced by residential properties. A garage is present adjacent to the east. • No significant changes are shown until 2007 aerial imagery shows the garage to have been demolished. • 2015 aerial imagery shows the former garage area to have been developed into residential properties.
B656 Hitchin Hill / A602 Park Way / Gosmore Road Roundabout	• Earliest mapping shows the north eastern extent of the site to comprise of London road and one other unnamed road which is bordered by allotment gardens. The remainder of the site comprises open fields. Clay pits and a Brick Field with kilns are present 130m to the north east. • By the 1920s a single non-descript building is shown to have been constructed in the centre of the site. A portion of the brick fields has expanded north with the southern extent converted to allotments. • 1960 mapping shows additional residential properties to have been developed throughout the site. London Road and Stevenage Road are shown to have been realigned and widened. The Brick Fields are shown to have been infilled and indicated as landfill. • 1990 mapping shows the residential properties to have been demolished and the current roundabout to have been constructed linking London Road, Stevenage Road, Gosmore Road and Park Way.

Appendix F – **Aerial Photos**

Air Photo Interpretation Consultancy

71a Oxford Gardens, London W10 5UJ, UK

tel: 020 8968 8647. email: [redacted]

14th March, 2016

[redacted]

Dear [redacted]

Re: Luton Airport site, Job No. 245580

Thank you for the assignment to determine the landfill history and character of the site on the north side of Luton Airport. I have used the site outline in the Groundsure report commissioned by the job team to locate the site, together with maps and images within that report, the air photo files for [redacted], historic vertical and oblique photographs at Historic England in Swindon, and online images from National Collection of Aerial Photographs and Google Earth to interpret the materials placed on the site over a forty year period. The information has been developed to a draft stage, as requested, for input into a model of the site.

Introduction

I have examined the site on historic aerial photographs spanning the period 1941 to 2003 and on large scale OS plans from 1879 to 1985. The site consists of land fill placed from before 1941 to the early 1990s in a dry chalk valley to the north of the main runway at Luton Airport. The fill thickness varies from less than 8m on along the northeast boundary to c.30m over the valley floor in the east corner. The valley intersects the near horizontal boundary between the Upper and Middle Chalk, marked by chalk rock strata. This was exploited by a small pit, already disused by the late 1800s, near the north corner of the site and two ploughed-through pits near the east corner and a shallow dew-pond in near the midpoint of the southeast side; otherwise, the chalk topography appears not to have been disturbed prior to infilling.

The fill present in 1941 and placed during and after WW2 appears connected with the Perceval (aircraft manufacturing) Works formerly just to the west of the site. The 1941 fill surface shows an area of small holes formed apparently to receive a special waste. Subsequently, the fill placed appears for the most part to be chalk and soil spoil imported to the site by truck and spread in by bull dozer with no other compaction measures. The infilling operation appears to have been controlled and well organised. There was a control hut at the entrance and later a gate. Fly tipping appears to have therefore been thwarted and none was observed. No liquid waste or slurry was observed; however, dried slurry originating from the Perceval Works slurry ponds, may have been a source of early waste. One small area, before the gate, appears to have operated as a scrap yard near the north end of the site.

The observations from the maps and photos have been compiled on three figures. Figures 1 and 2 show the site pre fill and as filled,schematically . Figure 3 shows schematic sections through the site. In addition I have attached the annotated photographs of the air photos viewed at Swindon. These are key to locating accurately the extents of possibly hazardous wastes deposited in the 1940s; when these images have been scanned and registered with the map base of the digital site model, the boundaries sketched in the attached figures may be drawn with more precision.

Further research into the operation of the Perceval Works and its apparent connection to the site is advisable. A current site survey with levels would assist to bring precision to the schematic presentation of fill thicknesses.

Sources of Information

The Ordnance Survey maps were provided as extracts from the 1:10,560 (6 inch) series spanning 1879 to 1985. These are listed in table 1 in the site history section. The earliest dates provide spot heights, in feet, along the line of the valley bottom and along the road forming the north boundary. The 1879 and 1900 map editions are to the old Liverpool datum, and the surviving spot heights were revised on the 1925 edition to the current datum, Newlyn. Survey convention omits height information where ground levels are constantly changing as at landfill and quarry sites; however, ground levels up to the site boundary are at 5m intervals on 1985 map edition.

The photographs were located in the files an earlier Arup job (no.19136), the Historic England archive in Swindon or were supplied via the job team via Groundsure and NCAP. These are listed in table 2 in the site history section. The photos have been examined in three dimensions through a mirror stereoscope where stereo coverage was accessible at the EH archive and from our earlier job records. Therefore, approximate heights and thicknesses of fill at different stages of infilling have been recorded and used in constructing the sections of figure 3.

Site History - Maps

The site area was open agricultural land on all pre WW2 dates of mapping. The level information from the maps records a gradual drop along the valley floor from north to south boundary of c8m (c24 feet). The maps show a gradual extension of fill after 1947 to cover the whole site. Levels on 1879 and 1900 map editions are in feet and to Liverpool datum. Newlyn Datum was introduced in 1919 and remains the current OS datum. It is possible to revise the earlier levels by comparison of the difference of the two bench marks still recorded in 1925, although see table 1 for 1925. The actual ground level at these bench marks (BMs) may be researched at the OS; the recorded level is to a mark on a brass plate on the post in the ground. As subsequent map editions do not record the bench mark levels at these two points, it may be assumed that the bench marks were lost.

Table 1: OS 1:10,560 scale Maps of the Site

Date	Comment
1879	Completely pastoral landscape. 'Old Gravel Pit' recorded in north corner of site. BMs (bench marks) show a drop from 454.1 to 431.6 feet from north to east boundaries along floor of dry valley. A further 4 spot levels on the track occupying the valley floor reveal a decreasing slope from northwest to southeast. No contours.
1900	No change.
1925	No change to land use. BMs revised but not only by the change in datum. The BM on the north boundary was revised downward from 458.0 to 454.1ft. The BM at east corner was revised downward from 431.6 to 430.8ft. The latter difference is the more typical difference between Liverpool and Newlyn datums. OS records will provide the actual difference between datums. No contours for site area. The map extract combines parts of two map sheets. The east sheet covering most of the site did not have contours. The west sheet had contours at 100 foot intervals and showed only the 500ft contour outside but near the west boundary of the site.

1947	Records outline of land fill within site, southwest of valley floor with access track from road on north boundary. BMs remain unchanged and contouring completed at 100ft intervals.
1960	Records extension of land fill area into south corner. BMs absent.
1975	Records fill as sand and gravel symbol over all but north half of east side of valley. 5m contours introduced outside of fill area. Within the site, the unfilled area reveals valley side from just below 140m to just below 150m the eventual fill limit. The west boundary of the site and of the fill is just above the 150m contour.
1985	Sand and gravel symbol removed. Storm water balancing pond constructed in north corner. No other change recorded.
1989	Geological map TL18SW uses 1975 base map. Records 'former municipal tip' in south corner of site, and 10m deep storm water lagoon in northeast corner of site.

Site History – Air Photos

The site has been examined on the aerial photos – verticals and obliques – listed in table 2. Where stereo cover was accessible the verticals have been examined with a mirror stereoscope to view the site in three dimensions.

Table 2: available aerial photography of the site

Date	Approx. Scale	Source	Comment
10.02.41		RAF at HE	
11.11.43		USAF at HE	Two single photos from adjacent flight lines. Not stereo.
03.05.46	oblique	Aerofilms at HE	Advise ordering no. A459. Notes 'Perceval Works'.
10.10.46	1:9,900	RAF at HE	
10.04.47	1:9,840	RAF at HE	
02.06.47	1:10,000	RAF at HE	
11.09.47	1:4,800	RAF at HE	
18.01.54	1:10,000	RAF at HE	
06.06.55	1:10,000	RAF at HE	
06.07.55	1:10,300	RAF at HE	
14.04.57	1:4,000	OS -19136	
16.08.61	1:11,000	RAF at HE	
09.09.64	oblique	Aerofilms at HE	Advise ordering no. A79541 to illustrate slurry ponds on Perceval Works site.
14.10.68	1:12,000	HSL -19136	
08.04.69	1:12,000	HSL -19136	
14.04.69	1:7,000	OS at HE	
03.05.71		NCAP	Single photo – non stereo. Colour
1972		NCAP	Single photo – non stereo.
03.07.76	1:12,000	HSL-19136	Partial coverage of west side. Limited stereo to northwest corner.
13.06.81	1:10,000	HSL -19136	
1982		NCAP	Single photo – non stereo.
1986		HSL -19136	
1990		NCAP	Single photo – non stereo.
14.06.92	1:8,250	OS at HE	Single photo – non stereo.
2000		Google Earth	Continuous image - non-stereo
2002		Google Earth	Continuous image - non-stereo
2003		Google Earth	Continuous image - non-stereo

2009		Google Earth	Continuous image - non-stereo
2013		Google Earth	Continuous image - non-stereo
Subsequent dates at Historic England's air photo archive for 1999, 2001 and 2003 are available only as negatives and must be scanned and printed for viewing. As infilling was completed, graded level and grassed over by 1992, these later dates are not necessary for a fill history.			
RAF= Royal Air Force, HE=Historic England, Swindon OS= Ordnance Survey, NCAP=National Collection of Aerial Photography, Edinburgh			

1941. The aerial photographs show a dry valley in chalk. The land use was primarily for grazing; the land was not ploughed and a dew pond near the southeast side was for stock watering.
The valley had slightly concave sides, i.e. steeper towards the top. The change of slope was coincident with a white tonal band in the soil on the northeast side of the valley at the level of the disused quarry at the north end of the site. This appears to be the chalk rock at the boundary between the middle and upper chalk, which the quarry evidently had exploited. The inferred boundary between the Upper and Middle Chalk on the 1989 geological map is higher on the slope (see figure 1).

A small area of fill was already present on the southwest side of the valley. Near the valley was a consistently very dark, dry material with a granular texture. To the south was a light toned waste; on the day of the photograph, there was smoke from a fire in this area. It was delivered by tipper trucks and spread by bull dozers. There was an access track from the factory to the west. This was the Perceval Works which was camouflaged and defended from two artillery compounds. The Perceval Works produced aircraft. Site clearance on the west side of the factory was underway for construction work to extend the works. Further to the west, in the next valley there was a water treatment plant with circular filter beds and an adjacent tip of dark material. Either or both of may have been the source of the waste disposed of on site.

1943. More fill had been placed in a fan distinct from the earlier fill and appeared to have been delivered via a single track from the Perceval Works. It was mostly dark waste but included white material. The earlier black waste was covered by more of the same. The area of the earlier light toned waste was inactive and had darkened. The construction work noted in 1941 had been completed at the Perceval Works. On the fill site, there were five white huts on what was to become the sole access track. There were several clusters of 4 and 5 huts in the general vicinity and they appear to have been dispersed accommodation. On subsequent dates the huts were in different positions. What was to become the access control post was set up at this stage. To the south of the fill area, in the vicinity of the later Luton Airport, there was an extensive top soil scrape in progress.

1946. In the 1941area of tipping there was a grid of small rectangular compartments like a waffle iron. The grid cells were empty and appeared to waiting for a hazardous waste fill. The fan of black with some white fill extended southward to the south corner of the site, to the area of the former Falconer's Hall. This fill area had been levelled within a rim of darker material as if a partial bund had been formed to enclose the waste. This suggests the handling of a waste that was known to be hazardous.

1947. Chalky fill was being placed over the earlier dark fill. The line of the direct track from Perceval Works was visible but as a field boundary. The access to tip area appeared to be restricted to a single track from the road at the north boundary of the site

1954-55. Filling continued to raise the existing fill area and extend the existing area towards the bottom of the valley.

1957. The area of infilling along the base of the slope by the valley bottom extended north. It was predominantly white chalky fill. The large scale enabled a gate with a control hut to be seen on the access track, before it forked into several tracks leading to different parts of the landfill. A hut had been in this position since 1941, but if a gate had been present earlier, it was sub-resolution and no shadow was observed either.

1961. The fill area had expanded significantly southward from the original 1941 to fill a triangular area between the earlier fill fan to the south corner and the line of the dry valley bottom into the southeast boundary of the site, still remaining west of the valley floor. The visible fill appears to be a chalky soil spoil. There are no open areas of refuse, although the spoil may provide covering layers. South of the site, three rectangular ponds had been constructed 1955. (The 1957 air photo did not extend this far south.)

1964. Slurry ponds between the Perceval Works and the water treatment plant were observed in the Aerofilms collection of oblique views at HE. These could not be photocopied and one should be ordered for the record. One pond had been excavated for re-use and the black and white waste was very like the waste observed in the 1940s and 1950s.

1969. The fill level had been raised substantially and benched on the highest part, along the southeast boundary. For the first time viewed, fill was present on the northeast side of the valley. The fill platform was at a constant height across the south end of the valley down to the southeast boundary. The fill continued to be brought to site by tipper lorries and spread by bull dozer without additional compaction being evident. The fill was white to light grey in black and white photography. Two vent stacks were visible on the line of the valley floor indicating a buried culvert to accommodate drainage. To the west of the site access control there was an automobile scrap area.

1971. The colour photography enables a clear distinction between the active infilling areas over and east of the former valley and in the north of the site up to the road on the west side of the valley. The fill area of the great expansion of the years around 1961 was green with ground-covering vegetation. The active fill was a dry pale brown chalky soil. there was dense black smoke rising from the scrap yard.

1972. Infilling had commenced of the remainder of the valley on the east side, including the disused 'gravel' pit in the northeast corner. The fill cover is more extensive in this area than is indicated on the 1975 map.

1976. Limited cover shows the scrap yard area now covered with fill. Just disappearing of the edge of the existing cover there appears to be heavy equipment or large beams inside the control gate. Adjacent coverage should be ordered to see what is there.

1981. Chalk has been delivered and tipped at several points across the earlier fill surface with the spreading of it occurring simultaneously from the tipping points.

1982. Filling is close to completion with a light toned chalky capping layer over most of the site. The benches of the east corner are revealed clearly by shadows and are covered with vegetation. A balancing pond for storm water drainage had been excavated in the north corner. It is either concrete lined or a very clear neat exposure of the chalk, but higher than the 2m recorded on the geological map. Water lies on the floor of the pit. The extent of the pit intersects the area of the former 'gravel' pit.

1986. The infilling appears to be completed. On the northeast side the fill slopes down to the original surface, standing 8-15m m high, increasing to the southeast. On the southwest side the fill slopes down to the original surface, standing 12-20m m high, increasing to the south. On the line of the original valley floor, at the east corner of the

landfill, the fill thickness is approximately 30m. The surface looks vegetated and not yet smooth. There is recent fill at the east corner.

1990 and 1992. Between these years the fill surface has been graded and seeded to present a smooth grass surface in 1992.
2000 to 2013. Essentially unchanged in 2000. Landscaped with hedges, rough vegetation and mowed fields by 2002 and unchanged to 2013.

Summary

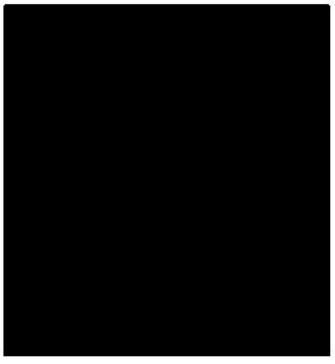
The site consists of landfill occupying a dry valley in Upper and Middle Chalk. The period of infilling was before 1941 to about 1990.The earliest fill appears to have been related to an aircraft manufacturing plant and/or a water treatment plant. The early fill may contain hazardous manufacturing waste and/or dried slurry. Subsequent landfill appears to be primarily soil and chalk spoil. The site access was controlled and the operation of the landfill site appeared tidy and well managed. One small area in the northwest part of site outside of the controlled access area was operated as a scrap yard in the 1970s. No refuse, slurry or standing water was observed on the dates of aerial survey cover. The fill was placed in layers by tipping and spreading but no additional compaction measures were observed. No significant fill was placed after 1990 and site area was landscaped between 2000 and 2002 to its present (2013) state.

Recommendations

Further research is recommended:

- into the history of the Perceval Works and the water treatment plant to establish the nature of early waste.
- at the OS, to establish the levelling history and correction factor for the datum change to establish the pre-fill topography.
- using additional aerial photos to acquire stereo coverage in order to:
    - estimate fill thicknesses at different stages,
    - prepare cross sections in the fill sections to target and correlate the logs from the ground investigation.

The figures and annotated photographs are prepared to draft state for compilation in the layered GIS plan that the job team has assembled with map and uninterpreted aerial photographs. I would be happy come in to answer any queries and demonstrate the stereoscope with the survey photographs when the additional frames have been acquired.



Attached figures:

1. Map of original surface condition of site
2. Map of fill deposits on site
3. Schematic cross sections through fill deposits on site

Pre-fill Surface.

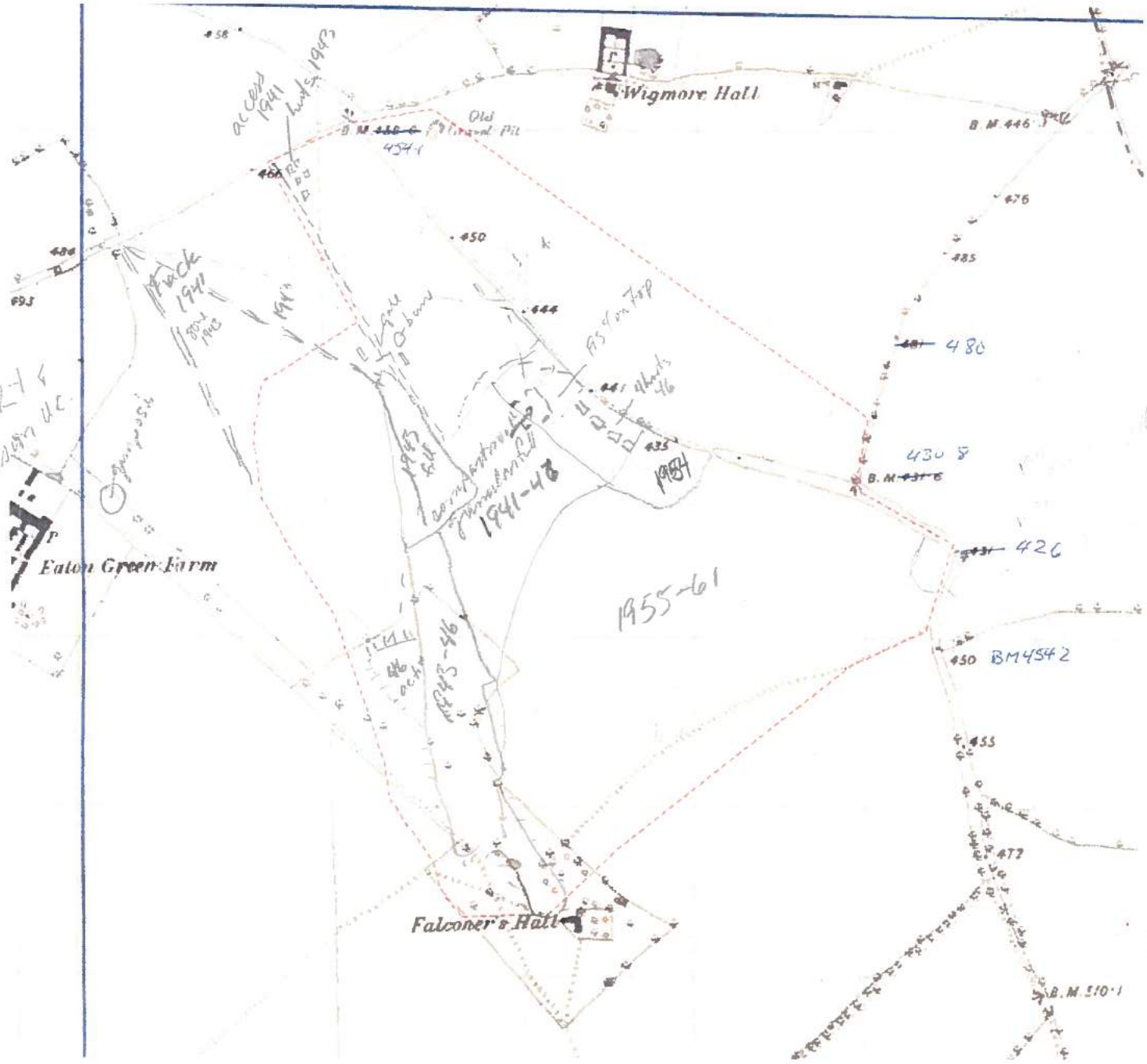
1. Disused excavation 1879+ visible 1957-71. Infilled 1972
   - shown infilled 1975 O.S. map
   - excavated by 1982 as storm water lagoon - see 2
2. Storm water lagoon identified on 1989 6" geol. map - 2m. into chalk observed
   1982 - standing water - vegetated fill slope to chalk (or concrete lining)
3. Observed chalk Rock - 1989 Geol. map - inferred line connecting
4. Chalky soil band visible 1957 A extends from pit (see 1.)
5. extent of landfill on geol. map includes most of site boundary
6. & dry valley bottom. 1879 OS map - levels adjusted to Newlyn reconverted from Imperial

A ——— A

lines of sections in fig. 3

PREFILL SURFACES

245580 fig 1



Luton Airport
1879 levels
revised to
Newlyn datum
in 1925 —

1941

EXTENTS OF
FILL BY DATE

base map 1879
levels in feet.
to Liverpool datum

fig 2

OAP20

ARUP | Calculation sheet

Job No.	Sheet No.	Rev.
245580-00		

Member/Location

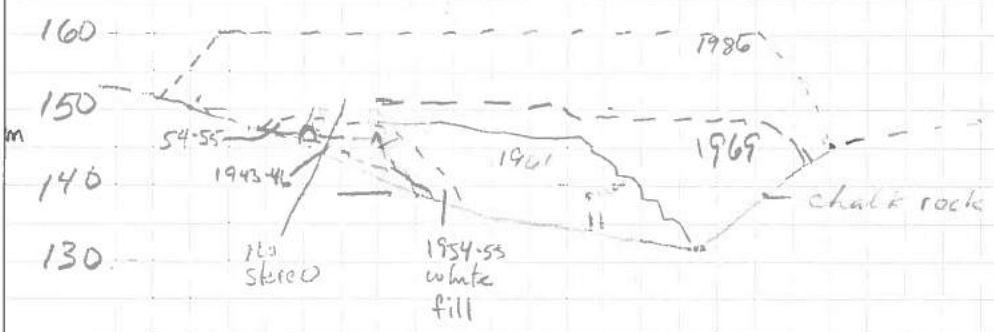
Job Title: LUTON AIRPORT

Drg. Ref.

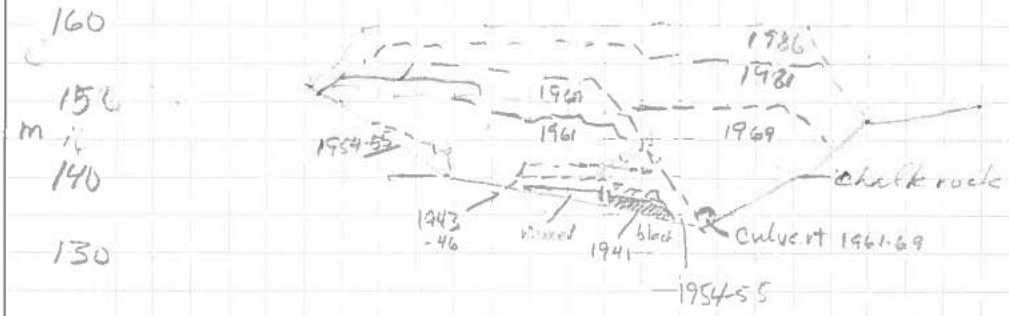
Made by [redacted] Date 14/03/2016 Chd.

SW NE

A



B



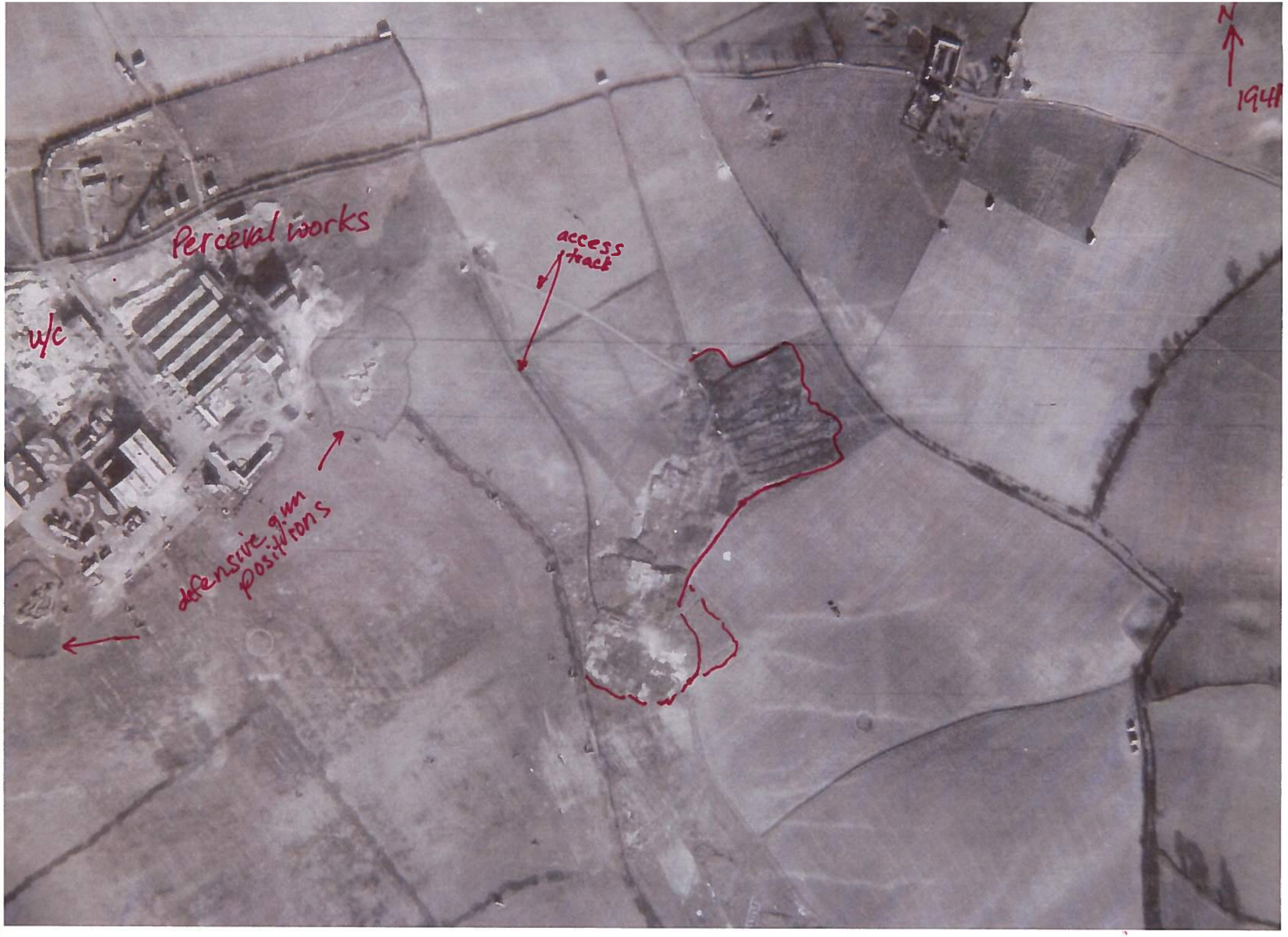
C

SCHEMATIC SECTIONS THROUGH FILL

see fig. 1 for locations

245580 fig. 3

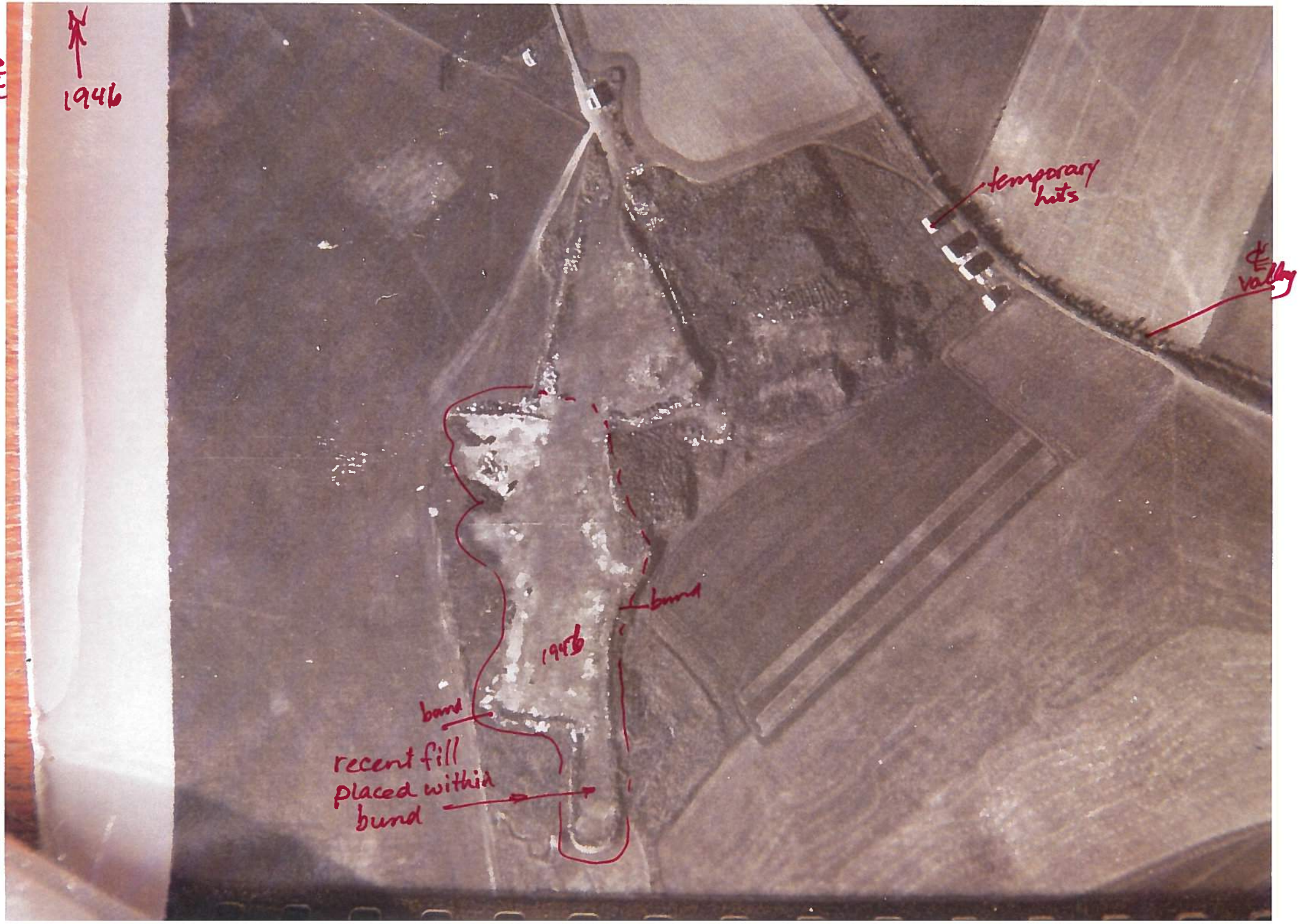
Printed on Recycled Paper


1941
N
Perceval works
u/c
access track
defensive gun positions
N
1944

1941

1. fenced bdy of airfield
2. gun positions
3. site access
4. Compartmented fill
5. fill over trenches at site ex-
☐ Falconer's Hall
6 - camouflaged factory Ea U/C.
7. dew pond.

1943
old pit
access track
control post
recent fill fan.
N
1943


1946
temporary huts
bund
1946
bund
recent fill placed within bund

1947
gun position
gun position
dewpond.
1947

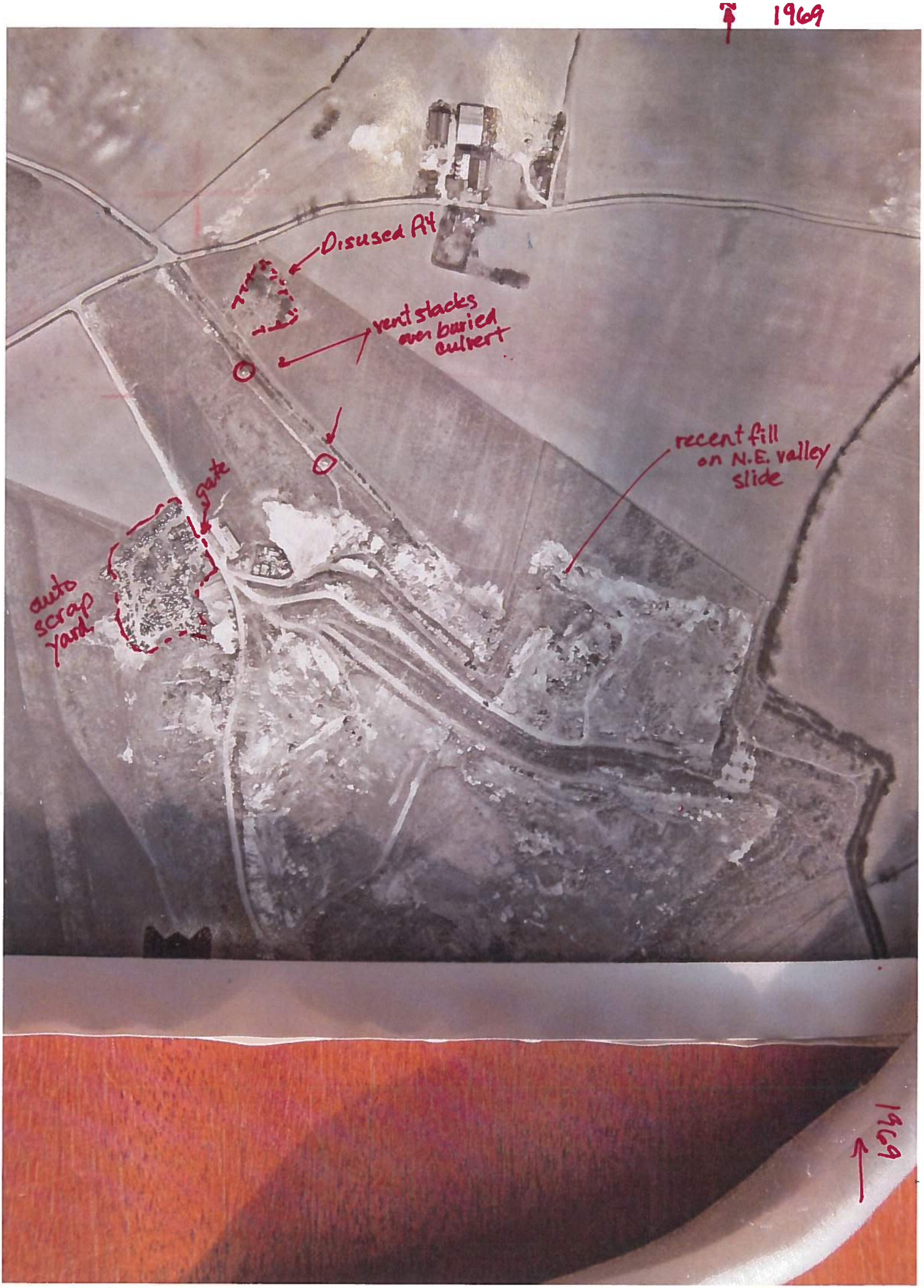
0164

F·22 58 RAF 1342 18 JAN '54 12·00Z 20° 16,666'

1954

1955
1955

Lyft.
1961
→N
1961


1969
Disused Pit
vent stacks over buried culvert
recent fill on N.E. valley slide
gate
auto scrap yard
1969

scrap yard 1969

HSL UK BED 69 858
UAG 306
152.21
8 APRIL 69
6,000' 6"
RUN 13
7617
7617
26

HSL BEDS 81 2
13.6.81
5,000' amgl. approx.
6" F/L
RUN 9 8852

HSL UK 86 79 RUN 10 1732

Appendix G – **Review of Previous Reports**

G1 Detailed Review of Reports

Table H1.1: Review of available reports covering the Main Application Site

Report title	Date	Location	Summary of scope/findings
Fugro Engineering Services (FES) East Luton Corridor Improvements for Luton Borough Council	2003	**A1081 (Airport Way)**	Site investigation for road improvement works. The testing undertaken was for geotechnical purposes and no contamination analysis was undertaken. However, the report does describe Made Ground encountered in the area as granular fill, clay fill or chalk fill.
Burks Green. Foundation work risk assessment report	2004	**Area A – Former Landfill** - northwestern edge	This report provides a foundation risk assessment for Hangar 202. An investigation was undertaken at Hangar 202 site by RSA Geotechnics in 2004. The investigation encountered thicknesses of landfill waste between 4.4m-9.9m. Landfill waste encountered included: • Commercial and industrial wastes comprising metal, plastic, cloth, glass, wire, paper, fibreglass insulation, wood, glass bottles, ash, asbestos cement, polythene sheeting; • Domestic refuse comprising black plastic bags with varying proportions of paper, plastic, food tins, plastic and glass bottles, wood, cardboard and newspapers (dated 1974); • Construction and ashy waste- comprising bricks, ash, clinker and wood. Ground gas monitoring was undertaken as part of the investigation which indicated methane levels up to 46.6% v/v and carbon dioxide up to 6.7% v/v. Burke Green report used the information from the RSA Geotechnics report to assess the likely foundations required for the hangar, apron and taxiway. The proposed solution was precast concrete piles driven into the chalk for the hangar. For the apron and taxiway ground improvement techniques such as stone columns interested the depth of the landfill or dynamic compaction were proposed. A methane gas barrier and passive ventilation system was also proposed to be installed below the foundation.
Terrence O'Rourke Hangar 202, Apron and Taxiway Link London, Luton Airport Planning Support Statement	2004	**Area A – Former Landfill** - northwestern edge	This planning support document, provides an overview of proposed development and potential environmental issues, including those posed by the former landfill. It advises solutions via construction methods to limit contamination migration, which were agreed with consultation with Environment Agency.
Wardell Armstrong, Southside and City Developments Ltd. Vauxhall Motors Site, Luton, Bedfordshire. Initial Phase Site Investigations, Preliminary Hydrogeological Assessment	2004	**Former Vauxhall Motor Works**	This report provides information relating to groundwater contamination conditions at the site of the Vauxhall Motor works. The report details that site investigation work was undertaken in 2004 trial pits, window samples and boreholes. This indicated that the groundwater direction was to the south west, however some uncertainty around this flow direction was highlighted. Made Ground was noted to be over 5m thick in places, with some hydrocarbon odours noted.

Report title	Date	Location	Summary of scope/findings
Wardell Armstrong Southside and City Developments Ltd. Vauxhall Motors Site, Luton, Bedfordshire. Preliminary Review of Available Data	2004	**Former Vauxhall Motor Works** No plan available within the report but considered to relate to the motor works	Review of previous reports and published information for the former Vauxhall Motors site. The report details that there is published literature on groundwater quality in the area, which is affected by chlorinated solvents and hexavalent chromium as a result of the industrial history of Luton. Previous investigations reported various concentrations of organic contaminants, however these were concluded as unlikely to represent a significant source of contamination.
RSA Geotechnics Limited, Harrods Aviation, LLA Hangar and Taxiway Extension at Luton Airport, Preliminary Factual Report	2004	**Area A – Former Landfill** - northwestern edge	This preliminary Investigation was undertaken to inform the foundation risk assessment it comprised of the following: • 14 No. boreholes; • 10 No. trial pits; and • 10 No. dynamic probe locations. Landfill waste was encountered with thicknesses between 4.5 m-9.9 m landfill waste was encountered as: • Commercial and industrial wastes comprising metal, plastic, cloth, glass, wire, paper, fibreglass insulation, wood, glass bottles, ash, asbestos cement, polythene sheeting; • Domestic refuse comprising black plastic bags with varying proportions of paper, plastic, food tins, plastic and glass bottles, wood, cardboard and newspapers (dated 1974); • Construction and ashy waste- comprising bricks, ash, clinker and wood. Ground gas monitoring was undertaken as part of the investigation which indicated methane levels up to 46.6% v/v and carbon dioxide up to 6.7% v/v.
Casella Stanger. Review of Environmental Reports LLA 202, Apron & Taxiway Link. Report No:C03607	2004	**Area A – Former Landfill** - northwestern edge	This report reviews previous environmental reports relating to the construction of Hangar 201. This review was to inform future development plans for a second hangar (202). The report refers to 7 reports and summarises each of them, key points relating to the landfill were as follows: • Fill materials overlie a dry valley in which chalk and possibly Dry Valley Deposits originally cropped out; • Previous investigations have indicated that the base of the landfill is underlain by Clay with Flints ranging from 5m thickness at the western side to 1m thickness at the eastern boundary; • The landfilled material ranged in depth between 5 and 13.5m; • The upper 1-3m of the landfilled area was thought to represent some form of capping material comprising soft to firm orange/brown silty clay with fragments of brick, ash and clinker and some fragments of paper, plastic, glass, metal, textile, straw wood and wire; • Groundwater was not encountered in the landfill area and that data from monitoring wells located in the vicinity of the airport indicated that the landfill was not having a significant effect on the quality of groundwater in the area.;

Report title	Date	Location	Summary of scope/findings
			• Methane and carbon dioxide were detected at elevated concentrations with a maximum of 73% v/v and 20% v/v respectively, in general gas flow rates were less than 1 l/hr; and • Gas protection measures were installed within Hangar 201 due to elevated concentrations of landfill gases. As part of the report, the data from the previous site investigations was reviewed and assessed against the then current Soil Guideline Values (SGVs) and other relevant assessment criteria. Concentration of cyanide and total PAHs were found to exceed, with significantly elevated concentrations tending to be located at depth within the fill material. Groundwater samples indicated exceedances of dissolved hydrocarbon above drinking water standard (DWS) limits. Previous groundwater sampling events also highlighted exceedances in the concentrations of Iron, Manganese and Total Petroleum Hydrocarbon. This was however attributed to borehole construction materials and spillages into the drainage system.
Wardell Armstrong, Southside and City Developments Ltd. Vauxhall Motors Site, Luton, Bedfordshire. Ground Investigation Report	2005	**Former Vauxhall Motor Works**	Summary report of ground investigations undertaken in 2004 and 2005. The soil and groundwater chemistry indicated elevated concentrations of Diesel Range Organics (DRO). The report concluded remedial treatment of the soils was required but not active remediation of the groundwater.
Wardell Armstrong, Southside and City Developments Ltd. Vauxhall Motors Site, Luton, Bedfordshire. SuPCLementary Ground Investigation Report (Existing Vehicle Release Facility)	2005	**Former Vauxhall Motor Works**	The report covers supplementary investigation undertaken at the former Vauxhall Motor Works, which was not accessible in previous investigations. The findings of the investigation were consistent with the previous investigations, and it was concluded that no additional remediation was required.
WSP Environmental Limited. Phase 1 Environmental Assessment (Project Odyssey) London Luton Airport. Project Number 12220076/001	April 2006	**Area A – Former Landfill** - Long stay car park - western edge of the former landfill.	A Phase 1 Environmental Site Investigation on the airport undertaken by WSP for 'Project Odyssey'. This includes extension of Car Park E which is the long stay car park which is situated on the western edge of the former landfill. The report provides a summary of previous site investigation reports. The following points of note were identified from the review: • Terrasearch undertook a site investigation in the western edge of the former landfill, which indicated that the waste extends to at least 8 m bgl. Lead concentrations were particularly elevated with a maximum concentration of 35,599 mg/kg; • An investigation into the former landfill was undertaken in 1991, WSP were only provided with an interpretation of the logs, with the actual report not reviewed. It indicated fill extended to depths of 21m bgl. It also noted contamination in the groundwater below and outside the former landfill, phenols, nitrate, chloride, sulphate and mineral oils. It was also stated that groundwater in the bedrock was being impacted by the landfill. WSP concur with an appraisal by Stanger, that the presence of clay with flints has prevented metals within the landfill leaching from the site.

Report title	Date	Location	Summary of scope/findings
Vertase F.L.I Contract Completion Report. Napier Park, Luton	2006	**Former Vauxhall Motor Works**	The report details that free product was found during redevelopment works, therefore Vertase F.L.I undertook further investigation to assess whether additional remediation was required. It was concluded that residual free product had become entrained in the chalk but that no further remediation was warranted.
Wardell Armstrong, Explore Investments Ltd. Napier Park, Kimpton Road, Luton. Groundwater Risk Assessment.	2007	**Former Vauxhall Motor Works**	The report details additional groundwater boreholes, monitoring and risk assessment modelling undertaken as part of the development of the former Vauxhall Motor Works (Napier Park). Additional assessment was required as during the reclamation works a zone of chalk which was heavily contaminated with DROs was revealed. Groundwater risk assessment modelling was undertaken which indicated that there was no risk to the River Lee and no additional remediation of the groundwater was warranted
URS, East Luton Corridor Improvements, Geotechnical Report for Luton Borough Council	2007	**A1081 (Airport Way)**	Geotechnical interpretation of a site investigation for road improvement works including geotechnical testing data.
Mott Macdonald, Veolia Water Projects, London Luton Airport, Surface Water Drainage, Asset Management Plan Report	2008	**Existing Airport Land**	This report inventories existing surface water drainage assets, which are reviewed for condition and performance. With potential solutions along with maintenance strategy outlined. Highlighting works required with vary degrees of urgency.
Wardell Armstrong, Stirling Place – (Former Kimpton distribution centre), Kimpton Road Luton, Bedfordshire	2008	**Adjacent to Luton Parkway Station**	The report provides information relating to when the site was developed in 1995 as distribution depot. Remediation was undertaken for hydrocarbon contamination in the groundwater through pump and treat. Wardell Armstrong undertook an investigation in 2007. Chemical analysis indicated the presence of asbestos (chrysotile). Analysis also indicated that concentrations of polyaromatic hydrocarbons (PAHs) and hydrocarbons were elevated but not above remediation targets agreed with the Environment Agency (EA) for the neighbouring site (Napier Park).
Wardell Armstrong, Various validation reports for Zones 1-6 of Napier Park	2008-2012	**Former Vauxhall Motor Works**	Various reports for areas of the Napier Park site validating the work to remove localised areas of soil contamination in the area of the former Motor Works.
Wardell Armstrong, Letter report to Environment Agency on Groundwater Monitoring at Napier Park and Stirling Place.	2012	**Former Vauxhall Motor Works**	The groundwater monitoring data for six boreholes at Napier Park and one borehole at Stirling Place are detailed within the report. It also details the results of a passive hydrocarbon removal trial within Napier Park to achieve groundwater betterment. It is detailed within the report that the groundwater flow gradients are minimal and variable, with some more southerly flow noted in previous studies. The report indicates that although the site is underlain by a Principal Aquifer, there is poor background water quality in the area and the nearest sensitive receptor was considered to be the River Lea. It concludes that Total Petroleum Hydrocarbon (TPH) concentrations at Sterling Place (BH RC5) were below detection limit and therefore it was not being affected by contaminant migration from Napier Park.

Report title	Date	Location	Summary of scope/findings
AECOM Phase 1 Geotechnical and Geo-Environmental Desk Study Report	May 2012	**Area A – Former Landfill**	Desk Study focussing on a development comprising of a cargo hangar and a fixed base operation (FBO) area, reviewing various sources of material. The southeast corner of the cargo hangar lies partially within the extent of the former landfill. The report reviewed previous investigations undertaken at Luton airport and its surrounds, including reports on the former landfill.

Report title	Date	Location	Summary of scope/findings
AECOM. Geotechnical and Geo-environmental interpretative report	Sept 2012	**Area A – Former Landfill**	AECOM reviewed two sites within Luton Airport, comprising of a cargo hangar and a fixed base operation (FBO). The southeastern corner of the cargo hangar lies site lies within the boundary of the former landfill. A limited investigation was undertaken comprising of: • 5 No. boreholes; and • 10 No. window sample locations. Up to 3.35 m of Made Ground encountered at the cargo hangar site, no mention is made of landfill waste being encountered. A possible dissolution feature noted within the chalk. Localised asbestos was encountered within the Made Ground.
Delta Simmons Environmental Consultants Limited. Preliminary Site Investigation for proposed Taxiway Foxtrot	Aug 2012	**Area A – Former Landfill**	A preliminary site investigation was undertaken within the extent of the former landfill for Taxiway Foxtrot. The Investigation found waste to be predominantly well decomposed, with some parts of the landfill waste comprising more granular materials suggesting construction & demolition rather than household waste in those areas. Occasional visual/olfactory evidence of hydrocarbon contamination was encountered. No groundwater or leachate was encountered during the investigation; however, the landfill waste was described as damp/moist in some locations. The report also identifies two stands of Japanese knotweed totalling an area of around 30-40 m^2
RSK Environment Limited, RPS Group Limited, Ocean Sky Jet Building, Luton Airport, Geoenvironmental and Geotechnical Ground Investigation	2012	**Area A – Former Landfill** - 400m west	The report covers an extension to an existing office building, it comprises of a geo-environmental preliminary risk assessment, A review of an investigation comprising a single 10m borehole bored to confirm ground conditions and validate conceptual site model. The included geo-environmental GQRA, with comparison to CLEA GAC's for relevant receptors, it concludes soils at the site do not pose a risk to further development. It also includes a geotechnical risk assessment of potential hazards, noting presence of Made Ground, shrinkable clay soils, and existing services.
Waterman, Napier Park and Sterling Place. Environmental Statement	2013	**Adjacent to Luton Parkway Station**	Environmental Statement (ES) reviewed previous investigations undertaken at both the Sterling Place and Napier Park. These reports are presented in the appendices of the report and are discussed above (3-11). The ES concludes that there is the potential for residual groundwater contamination associated with the former Motor Works but that there is no evidence of significant source of contamination at Stirling Place. The report recommended additional groundwater monitoring to inform an updated DQRA and if necessary further remediation.
Ivy House Materials Management & Remediation Verification Report. Signature FBO, Luton Airport	Dec 2013	**Area A – Former Landfill**	The report details the remediation activities to develop a new fixed base operation (FBO) within the boundary of the former landfill. It details segregation of materials dependant on material waste category. Subsequent verification was undertaken to ensure no significant risk to controlled waters or human health remained.

Report title	Date	Location	Summary of scope/findings
Crossfield Consulting. New Ramp, Adjacent to Stand 80, Luton Airport, Phase 1 Desk Study Report	2013	**Existing Airport Land** - adjacent to Stand 80	Desk based assessment of a site approximately 150 m west of the former landfill. The report acknowledges the presence of the former landfill, but no other additional information is provided.

Report title	Date	Location	Summary of scope/findings
Mott MacDonald London Luton Airport Surface Water Drainage Strategy	2014	**Existing Airport Land**	This report evaluates historical water monitoring with results assessed against water quality standards (WQS). The report identified 27 'contaminants of concern' (CoC) which exceeded WQS. These were selected for proposed monitoring as part of the strategy. It also identifies a number of potential risks, based upon processes and historical usage. It assesses the quality of existing measures to protect water quality and proposes methods to manage future pollution events. It outlines a series of actions to be undertaken including monitoring, engagement with authorities and further assessment of certain possible solutions.
Mott MacDonald, London Luton Airport Operations Ltd, Phase 1 Geotechnical and Geo-environmental Desk Study	Jan 2014	**Existing Airport Land/** **Area A/ LLAOL Contractor's Compound**	Phase 1 Geotechnical and Geoenvironmental Desk Study. A preliminary risk assessment (PRA) for proposed airport extensions to terminal buildings, extensions to existing mid and long-term car parks, new taxiway (foxtrot) , extension to existing taxiway (alpha) and aprons and new multi-storey car park linked to terminal building. The PRA was for planning purposes and to address concerns raised by the Environment Agency during planning consultations. The report includes a summary of ground conditions, current and historical land uses, environmental setting of the site and review of previous site investigations and historical mapping. Previous ground investigations identified elevated concentrations of metals and inorganics in Made Ground (particularly the former landfill area) and groundwater beneath the site. Tri-ethylene glycol, TPH, PAH, PFOS were encountered locally and intermittently in ground water and surface water. Elevated ground gas was recorded associated with the former landfill. A Phase 1 Remediation Report was reviewed for the Fire training Ground which was completed when it was up-graded to meet new industry standards. Contaminated materials were excavated to depths between 0.3m to 6.0m bgl and removed from the area, remedial criteria adopted were less than 1000 mg/kg for TPH and less than 1 mg/kg for fluorinated surfactants (PFOS). Activities identified as potential sources of contamination included: • Airport activities, • Commercial and industrial activities, • Historical landfill, • Fuel farm, • Historical sewage treatment works, • Constructions works, • Concrete and asphalt works • Electricals substations, and • Generators and associated fuel tanks. High to Moderate risks were identified to River Lea/Luton Hoo Lakes and Principal chalk aquifer, with low risks to human health receptors.

Report title	Date	Location	Summary of scope/findings
			It was concluded that risks could be adequately mitigated through design and construction techniques and remediation. Ground investigations were recommended to support planning aPCLication and update data gained from previous GIs to obtain information on: • contamination status of proposed development areas; • extent of the Chalk with Flints stratum; and • groundwater quality and flow direction.
Mott MacDonald. London Luton Airport Expansion. Contamination Risk Assessment Report- Phase 1 Development.	2015	**Existing Airport Land**	Mott MacDonald completed a Contamination risk assessment for Phase One Development Area (which comprises the terminal building, aircraft hangars, car parks, road ways/roundabouts and associated soft landscaping. The assessment included a discussion of the historical development of the airport site but includes some reference to the former landfill and the areas surrounding it. The fire training ground to the south of the former landfill is recorded as comprising a fuel tank with a capacity of 1000 litre and several containers of firefighting foam Petroseal- Film Forming Fluoro Protein (FFFP). In addition, there are two balancing ponds located in this area. The surface run off from this area is collected in two lined ponds which are regularly emptied by tankers. In addition, the area to the south of the long stay car park (which is located on the western edge of the former landfill) is noted to be a concrete and asphalt works. The report also indicates that data from a groundwater quality monitoring programme by Veolia in 2006-2007 indicated the groundwater levels in the White Chalk subgroup beneath the airport decrease from approximately 120m AOD (25 mbgl) in the centre of the airport to 101m AOD (approximately 60m bgl) at the western boundary. It also indicated that during historical groundwater monitoring across the airport, elevated concentration of lead, aluminium, iron, manganese, arsenic, mercury, selenium, nitrate, sodium, chloride and pesticides were noted. Site investigation was undertaken by Mott MacDonald which comprised 10 boreholes to a maximum depth of 60m and 4 boreholes to a maximum depth of 6m across the area for groundwater and gas monitoring purposes. In addition, 26 trial pits were undertaken across the area. Gas monitoring exercises reported depleted oxygen concentrations in some of the boreholes and elevated carbon dioxide concentrations. These monitoring locations were not adjacent to the former landfill. They were no reported methane concentrations in the gas monitoring exercise.
Concept Site Investigations, Luton Airport Terminal Extension, Site Investigation Report	2015	**Existing Airport Land**	Concept Site Investigations undertook an intrusive site investigation as part of works for a potential terminal extension, comprising of the following: • 6 No. Cable Percussion Boreholes to a maximum depth of 30 m; • 3 No. Rotary Follow on Boreholes to a maximum depth of 60 m; • 1 No. Rotary Borehole to a depth of 60.0 m;

Report title	Date	Location	Summary of scope/findings
			• 4 No. Windowless sampler boreholes to a maximum depth of 6.0 m; and • 27 No. hand excavated trial pits to a maximum depth of 2.3 m. With 14 No. groundwater monitoring standpipes installed. The investigation encountered Made Ground with thickness of up to 1.75m, underlain by natural strata.
Pell Frischmann, Luton Airport Perimeter, Preliminary Sources Study Report	2016	**Airport Access Road**	Pell Frischmann undertook a Preliminary Sources Study Report for Century Park Access Road, a 3km long section of dual carriageway to connect New Airport Way with the Enterprise Zone, running along a similar alignment to the existing routes of Percival Way and President Way. The report summarises the geology, geomorphology, hydrological and geo-environmental aspects of the site as well as the historical development of the area. A conceptual site model and preliminary assessment identified the following as potential sources of contamination: • Eaton Green Landfill • Airport fuel depot adjacent to Percival Way • Former sewage works adjacent to Vauxhall Ridge • Historical settlement ponds (now encapsulated with a 1.5mm HDPE membrane) and settlement tanks, assumed to be a waste treatment facility associated with the Vauxhall motors plant to the north of Airport Way. • Numerous works and depots • Previous military usage of the airport including the risk of unexploded ordnance • Spittlesea hospital The report identifies the potential for the following contaminants to be present across the road alignment: • Inorganic contaminants; Metals and Metalloids (previous land use, in particular waste treatment facility and landfill) • Organic contaminants; Oil/fuel Hydrocarbons, Semi-volatile organic compounds (SVOC),Volatile organic compounds (VOC) • Pathogens (former sewage works). • Landfill gases • Landfill leachate The report identified several contaminant linkages with an overall Moderate to High risk. The receptors, pathways and assigned risks from the potential sources of contamination for each linkage identified are summarised as: • Construction Workers from dermal, ingestion or inhalation – Low to Moderate

Report title	Date	Location	Summary of scope/findings
			• End users of the developed site from dermal, ingestion or inhalation – Low • Adjacent buildings and structures from migration of vapours – Moderate to High • Leaching of contaminants to groundwater – Moderate to High • Groundwater /surface water abstractions – Moderate • Contaminated runoff to surface waters – Low to Moderate • Impact to local ecosystems from dermal contact, ingestion and inhalation – Low The report recommended the following work to be undertaken: • A ground investigation with chemical testing to identify areas/extent of contaminated land • Design levels for the highways infrastructure to be set to minimise the requirements to disturb the existing landfill area and other potentially contaminated areas • Remediation of contamination materials on site
Mott MacDonald Contamination Risk Assessment Report, Phase 2 and 3 Development	March 2017	**Existing Airport Land**	Mott Macdonald undertook a contamination risk assessment for the area of the Terminal 1 expansion works, this included Area D. The report summarised the findings of an earlier desk study (Mott MacDonald (2014) Luton Airport Operations Limited, Phase 1 Geotechnical and Geoenvironmental Desk Study). Potential sources of contamination identified in Area D included fuel tanks and cement and asphalt works, an electrical substation and fuel tank to the south of the fire training ground and a fuel tank and fire fighting foam containers in the fire training ground. Off-site in the wider area, numerous de-icing tanks are noted as well as further fuel tanks. Site investigation was undertaken, and the results interpreted. The report identified minimal contamination of the materials for excavation, comprising cohesive Made Ground materials derived from the underlying Clay with Flints Formation, but concluded that there were no significant contamination risks to human health or controlled waters associated with the material when compared to current assessment criteria. The reports were considered sufficient for the discharge of the condition by the Local Planning Authority.
Concept Site Investigations, Geo-environmental GI Site Investigation Report	2017	**Existing Airport Land**	Concept site Investigations carried out an intrusive site investigation comprised of the following: • 5 No. rotary boreholes to a maximum depth of 70.0 m; • 4 No. dynamic sampling boreholes to a maximum depth of 6.0 m; and • 11 No. hand excavated trial pits to a maximum depth of 1.5 m All rotary boreholes were installed with groundwater standpipes. Made ground was encountered with a thickness between 0.25 m and 3.32 m
Structural Soils Access Road Factual Report on Ground Investigation	June 2017	**Along the proposed footprint of the**	This is a factual site investigation report undertaken for the access road undertaken by Structural Soils for Pell Frischmann in 2016/2017, subsequent to the PSSR. Exploratory locations were advanced along the proposed road alignment which crosses the north of the former landfill, and through WVP core area in Areas B. The GI Comprised of:

Report title	Date	Location	Summary of scope/findings
		Airport Access Road	• 22 Cable percussion boreholes to depths between 5.8 and 15.6m bgl; • 38 Cable Percussion with follow on rotary drilling to depths between 12 and 31m bgl; • 5 Rotary cored boreholes to depths to 31m bgl; • 46 Dynamic window sample holes to depths between 0.5 and 7.5m bgl; • 24 trial pits up to depths between 1.2 and 4.2m bgl • 28 groundwater and gas monitoring standpipes The presence of hydrocarbon odours, discolouration and the presence of membranes and geotextiles were observed across areas across the scheme.

Report title	Date	Location	Summary of scope/findings
Structural Soils Century Park Factual Report on Ground Investigation	June 2017	**Area B**	This is a factual GI report undertaken on the land situated east of the former landfill (within Area B), to inform the Century Park development. This was a preliminary site investigation based on the findings of the Arup PRA (2017). The GI comprised of: • 13 No. Cable Percussion Boreholes to a depth of between 1.9 m bgl and 15.5 m bgl; • 38 No. Cable Percussion Boreholes extended by rotary drilling, to a depth of between 1.9 and 15.5 m bgl extended to a depth of between 39.0 and 53.7 m bgl; • 52 No. Trial Pits excavated to depths of up to 4.5 m bgl; • Geotechnical and environmental soil sampling and laboratory testing; and • 9 No. groundwater and gas monitoring standpipes. The GI encountered Made Ground, south of the former landfill up to 6 m in thickness on existing airport land. Across the wider Century Park development, the investigation found clay with flints with varying thickness between 0.3 m and 8.2 m overlying chalk to depth the clay with flints was absent in the base of the dry valley.
Arup, Century Park Development, Contamination Preliminary Risk Assessment – Former Eaton Green Landfill	2017	**Area A – Former Landfill**	This report assessed the risk posed by the former Eaton Green Landfill, it utilises existing sources of information to produce an interpreted 3D ground model. The key findings are summarised as follows: • Former landfill has been filled from 1940's to the late 1980's; • Due to the age of the landfill it is likely to be 'dilute and disperse', therefore unlined with leachate migrating and diluting within the groundwater; • The landfill lies within a dry valley, formed by periglacial process. The upper slopes have cohesive strata which would act as a barrier to downward migration where it is present. However the lower parts and base of the valley are fluvial deposits and exposed chalk which are permeable, as such contamination will migrated downwards more readily; • Historical information suggests a range of waste present within the landfill, including wastes from car scrap yard, aircraft manufacturing facility, local industry (such as Laporte Chemical works) and household waste; • Groundwater level may be depressed due to abstraction in the area, with a possibility that if abstraction cease groundwater levels would rise, resulting in water emerging in the currently dry valley; • The infilled waste is unsored and uncompacted, there is evidence of settlement noted during the site walkover; • The chalk aquifer underlying the site is highly protected as I is the main source of public water in the region, the nearest abstraction for public water suPCLy is located 3km northeast;

Report title	Date	Location	Summary of scope/findings
			• Groundwater levels from previous investigations suggested groundwater is not present within the landfill. As the investigations indicated that wastes were generally dry. This may mean the leachate production potential of the waste is limited; • 3D interpretive model estimates 4.5million m3 of waste is present within the landfill; • Limited information on contamination is available, restricted to the western boundary, where development has already been undertaken; • Identified a number potential pollutant linkages (PCLs) which may pose a risk to future development, including risks from ground gases/vapours and risks to the underlying Chalk Aquifer; and • A number of physical conditions on site likely to present potential risk to any development, such as large obstructions, settlement, aggressive ground conditions and solution features. It recommended comprehensive site investigation to determine the geo-environmental and geotechnical risks, further risk assessment to quantify this risk.
Structural Soils Landfill Factual Report on Ground Investigation	June 2017	**Area B**	This is a factual GI report undertaken on the landfill to inform the Century Park development. This was a preliminary site investigation based on the findings of the PRA (2017). The GI comprised of: • 18 No. resonance (sonic) boreholes drilled to a depth of between 6.00 m bgl and 60.00 m bgl; • 2 No. Cable Percussion Boreholes extended with rotary drilling. Boreholes to a depth of between 6.45m bgl – 9.00 m bgl with rotary follow on to a depth of 58.50 m bgl; • 9 No. permeability tests in boreholes; • 26 No. Dynamic Probe Penetrometer tests; • Geotechnical and environmental soil sampling and laboratory testing; and • 17 No. groundwater and gas monitoring standpipes. The GI recorded landfilled wastes up to 20m thickness over the landfilled area. This was underlain by Clay with Flints (sides of valley only) highly plastic clay containing flint gravel, thickness was generally 3 m but up to 15 m in places. Structureless Chalk was noted beneath the superficial deposits recovered as sandy very silty gravel or sandy gravelly silt, in some places, at the base of the landfill, wastes were placed directly onto the chalk. No evidence of a basal 'liner' layer to the landfill was noted.
Arup Century Park Development, Landfill Area Contamination Quantitative Risk Assessment.	Sept 2017	**Area A – Former Landfill**	The aim of this report was to build on the findings of the Preliminary Risk Assessment (PRA) to inform the Century Park development. It presents a quantitative contamination risk assessment relating to human health, ground gas and groundwater. The main findings of this report were as follows: • Characterisation of the waste was undertaken which indicated the main categories were construction and demolition, industrial waste, old domestic and recent domestic waste. Industrial type wastes were only encountered in a few locations associated with older eras of waste.

Report title	Date	Location	Summary of scope/findings
			• Testing did not suggest a significant variation in chemistry between the different eras of filling. Visual and olfactory evidence of contamination were identified, including; clinker, ash, black staining, hydrocarbon odours. Daily cover materials were encountered and classified as non-chalky or chalky both with limited waste content and encountered at variable depths. Significant depth of 'cover' material was noted but not considered to be an engineered cap. • Perched waters were not recorded during the investigations. Post fieldwork groundwater levels measured in the boreholes were typically around 110 mAOD (40 mbgl) and ranged between 22 m – 38 m below the base of the landfill. • Limited quantities of leachate were recorded. Comparison of leachate analysis results against typical compositions of leachate depending on stage of decomposition (Stages 1-4) suggested the landfill is approaching an aged state between stages 3/4 with low gassing and leachate potential. • The results of the gas monitoring indicated methane and carbon dioxide concentrations were higher in the northern part of the landfill (although limited data across the central area). Maximum recorded concentrations were 62.1% v/v for methane and 53.1% v/v for carbon dioxide with a maximum positive flow rate of 3.6l/hr. This is consistent with this area being filled more recently and the waste being less degraded than the southern part of the landfill. • Low levels of methane (<0.1 v/v) were detected outside the landfill boundary, maximum carbon dioxide was 9.7v/v, maximum flow was 0.6l/hr. • Asbestos was identified at 3No. borehole locations, chrysotile fibres were identified below the limit of detection <0.001%. • The results indicated the chemistry of the landfill presents a low risk to future site users assuming a clean cover system to remove potential pathways and protect the development from odours and the poor physical properties of the waste. • Comparison of groundwater quality analysis results from below the landfill and area to the east, against generic guidance values (UK DWS, EU DWS, EQS) identified several contaminants which exceeded the guidelines. Detailed modelling was undertaken. This concluded that overall there is little evidence that the landfill is causing significant contamination of the groundwater. This suggests that providing appropriate techniques are used during construction to prevent downward migration of contaminants, it is unlikely that the new development will result in significant contamination of the groundwater. Recommendations were made for further site investigation of the landfill area, including groundwater and gas monitoring to confirm the findings of the assessment and refine the CSM.

Report title	Date	Location	Summary of scope/findings
Arup. Luton Airport Mass Passenger Transit System. Land Contamination Preliminary Risk Assessment	2017	**Adjacent to areas Luton Parkway Station and Existing Airport Land.**	This report is a desk-based assessment of the contamination risks associated with the route of the Mass Passenger Transit (MPT) System which runs from Luton Parkway Station to Terminal 1 at Luton Airport. A conceptual site model (CSM) was produced identifying potential pollutant linkages (PCLs) which may pose a risk to future development, including risks from ground gases/vapours and risks to the underlying Chalk Aquifer. Potential geotechnical constraints/risks to the development were identified. A comprehensive site investigation was recommended to determine the geoenvironmental and geotechnical risks and inform the design of the development.
Structural Soils. London Luton Airport Mass People Transfer Ground Investigation Phase 1: Factual Report on Ground Investigation.	2017	**Adjacent to areas Luton Parkway Station and Existing Airport Land**.	This is a factual GI report undertaken along the proposed MPT route. This was a preliminary site investigation based on the findings of the PRA (2017). This was a preliminary GI and consisted of 16 cable percussion boreholes, 7 of which were extended by rotary drilling, 1 rotary cored borehole, 8 trial pits, 1 hand dug pit and 3 hand dug trial trenches. The GI recorded Made Ground of variable composition along the route, with the thick deposits encountered near to Luton Parkway Station up to 7.5m. Clay with Flint deposits were absent in the area of Parkway Station, where the Made Ground is directly underlain by the Chalk bedrock. However, in the area of the existing airport Clay-with-Flint deposits overly the Chalk and are present up to 8m in thickness.
Arup. Luton Airport Mass Passenger Transit System. Land Contamination Quantitative Risk Assessment.	June 2017	**Adjacent to areas at Luton Parkway Station and Existing Airport Land**.	The aim of this report was to build on the findings of the Preliminary Risk Assessment (PRA) to inform the MPT development. It presents a quantitative contamination risk assessment relating to human health, ground gas and groundwater, as well as characterisation of the waste and analysis of leachate, soil and groundwater quality. The following was noted: • There were no exceedances in the soil or groundwater when compared to the relevant human health GACs. Therefore, no remediation is required at the site with respect to human health. • No asbestos fibres were detected in the soil samples submitted to the laboratory for testing. • Assessment of the ground gas results indicated a low risk according to CIRIA C665. The worst case measurement resulted in a classification of CS1 conditions. However, it was recommendation that consideration was given to possible preferential pathways associated with the former Eaton Green landfill 90 m east of the existing airport; • Concentrations of several contaminants in soils and groundwater exceeded the generic controlled waters criteria. Therefore, further assessment of these contaminants was required by undertaking a DQRA. • The controlled waters DQRA was undertaken using the Environment Agency remedial targets worksheet. Overall, the quantitative risk assessment indicated that the identified potential pollutant linkages were low risk and no remediation was required at the site with respect to contamination.
Arup, Century Park, Airport Way, Play and Skate – Contamination Desk Study	2018	**Area B**	This report was undertaken to assess potential contamination issues which could affect the proposed playground. It noted the following: • No previous contaminative uses on site;

Report title	Date	Location	Summary of scope/findings
			• A number of off-site contaminative uses such as Made Ground, allotment and landfill; and • Potential pollutant linkages of very low to low risk were identified, which could be mitigated by design. It recommended suitable supervising to appropriately manage any unforeseen contamination, and the production of a Materials Management Plan, if material is
Arup London Luton Airport Expansion Ground Investigation Strategy	2018	**Area A – Former Landfill**	This report sets out the strategy for further ground investigation of the landfill. The GI strategy was based on the findings of the Arup (2017) DQRA report for the New Century Park development. The report set out the requirements for investigation of the potential pollutant linkages (PCLs) identified in the DQRA.
AECOM Luton Hangar 24 Ground Investigation. Factual Ground Investigation Report	Feb 2018	**Area A - Area of Tidy Tip and TUI car park, northwestern corner of the former landfill**	This is a factual GI report undertaken to inform the construction of a new maintenance facility comprising garage space, offices and workshops. The GI comprised: • 2 No. Cable Percussion Boreholes (BH101-BH102) drilled to 20.00m and 21.00m bgl; • 3 No. Cable Percussion boreholes (BH104-BH106) drilled to between 4.50 m and 4.95 m bgl; • 5 No. Windowless Sampling Boreholes (WS101-WS105) drilled to between 4.80 m and 6.00 m bgl; • 5 No. Machine Excavated Trial Pits (TP102 and TP104-TP107) excavated to between 2.90 m and 4.50 m bgl; Geotechnical and environmental soil sampling and laboratory testing; • 2 No. Falling Head Permeability Tests, and; • 3 No. groundwater and gas monitoring standpipes. In addition, the following was undertaken in an area south of the site to inform on the design for a new entry roadway into the Eaton Green Civic Amenity Site 'Tidy Tip' to the south of the site: • 1 No. Cable Percussion Borehole (BH103) drilled to 4.50 m bgl. • 1 No. Machine Excavated Trial Pit (TP101) excavated to 4.00m bgl.1 No. Machine Excavated Trial Pit (TP101) excavated to 4.00 m bgl.

Report title	Date	Location	Summary of scope/findings
Arup, Proposed Airport Potential Parking Sites, Review of Ground and Construction Issues	2018	**Two parcels of land close to Luton Parkway Station**	This desk-based report assessed land contamination and geotechnical issues. A summary of its findings are as follows: • A number of historical sources of contamination on and off site, e.g., former motor works, rifle range, sewage works and railway and railway sidings; • Significant uncharacterised material imported for fill to produce development platforms, which poses a geo-environmental and geotechnical risk; • A conceptual site model identifying potential pollutant linkages (PCLs); and • A lack of previous geotechnical or geoenvironmental investigation. The report made the following recommendations: • Site investigation to characterise material present on site; and • Revised risk assessment to revise and PCLs.
Arup London Luton Airport Limited, Hangar 24 Ground Investigation Interpretative Report	July 2018	**Area A - Area of Tidy Tip and TUI car park, northwestern corner of the former landfill**	The interpretive report was based on the Aecom GI undertaken in 2017. • Works comprised 2No. deep boreholes to 20.0m and 21.0m bgl and 3No. shallow boreholes to 4.5 to 4.95m bgl, windowless sampling boreholes upto 6.0m bgl and machine excavated trial pits, geotechnical and environmental soil sampling and laboratory testing. Standpipes for gas monitoring in the Made Ground were installed, with monitoring completed on 6 occasions between October 2017 and January 2018. • The GI did not encounter any landfilled wastes, Made Ground was recorded to depths upto 3.0m thickness underlain by Clay with Flints/Glacial Till overlying Holywell Nodular Chalk Formation and New Pit Chalk Formation. Chalk was classified as CIRIA Grade Dm to approximately 9.5m bgl grading onto CIRIA Grade B. • Groundwater was not encountered during drilling; perched water was recorded in the Made Ground during monitoring works. • No chemical contaminants in exceedance of guideline values were identified in car park area or evidence of asbestos containing materials/fibres. Lead and dibenz[ah]anthracene were detected at concentrations above Arup assessment levels in soil samples taken from the bunds around the Tidy Tip. Asbestos was also found in samples taken from the bunds. The identified contaminants were not considered a risk to human health, and remediation works were not considered necessary, however it was recommended suitable control measures be adopted during site preparation and construction works. • No risk to groundwater was identified from the recorded contamination. • Ground gas assessment based on a peak concentration of CO_2 at 2.9% and maximum average flow indicated a Characteristic Situation 2 would be aPCLicable, and basic gas protection measures would be required for the new building. The potential for gas migration from the adjacent landfill was

Report title	Date	Location	Summary of scope/findings
			identified and precautionary measures were proposed such as continuous trenching around the proposed building to detect any potential pathways e.g., old land drains/service trenches. • Geotechnical recommendations were for traditional spread pad foundations in the Glacial Till/Clay with Flints or driven piles with ground bearing floor slab. The use of soakaways was not considered feasible • The report concluded that there is no evidence that the area currently occupied by the TUI car park was ever part of the former landfill. The ground investigation found that there is a limited thickness of Made Ground beneath the majority of the car park and that what was found was typical of the formation of a hardstanding. • Historical maps and other records suggest that the Tidy Tip site was a 'scrapyard' within the landfill area and that the bunds that form part of the Hangar 24 site were formed when the scrapyard was cleared and levelled to form the tip site. • Based on the proposed development no remediation of the site was considered to be required with respect to human health or controlled water.
GL Hearn, Environmental Statement (Volume 1: Non-Technical Summary) New Century Park Luton and Volume 2: Environmental Statement – Addendum, Land Adjacent to Luton Airport: New Century Park	2018	**Airport Access Road within Area A - Former Landfill**	The Environment Statement reports the findings of the Environmental Impact Assessment (EIA) undertaken to identify the likely significant effects arising from the Proposed Development. The ES covers Ground Conditions and Contamination along the route of the proposed access road and the business park. Assessment of the former landfill area is based on Arup (2017) Century Park Development, Landfill Area Contamination Quantitative Risk Assessment (described in detail above). Other areas of contamination noted were as follows: • Localised asbestos contamination within the Made Ground; and • Substantial Made Ground deposit were encountered in the vicinity of Airport Way The ES concluded following suitable mitigation there were no significant effects.
Geotechnics Century Park Access Road Additional Works. Factual Report.	2018	**Airport Access Road** - area between the A505 Airport Way and Proctor Way with additional holes along Princes Way and between Eaton Green Road and the Tidy Tip access road.	This is a factual site investigation report undertaken to supplement information along the access road undertaken by Geotechnics Ltd for Opus International Consultants in August 2018. Exploratory locations were advanced in two distinct areas between the A505 Airport Way and Proctor Way and also at the junction of Eaton Green Road and the access road to the Tidy Tip. The GI Comprised of: • 7 Cable percussion boreholes to depths between 1.2 and 15.0m bgl; • 2 Cable Percussion with follow on rotary drilling to depths of 20.0m bgl; • 2 Dynamic window sample holes with follow on rotary drilling to depths between 0.5 and 7.5m bgl; • 10 Dynamic window sample holes to depths between 1.00 and 7.45m bgl; • 13 trial pits up to depths between 0.5 and 4.5m bgl • 7 Concrete cores to depths between 0.26m and 0.37m bgl;

Report title	Date	Location	Summary of scope/findings
			The presence of hydrocarbon odours, discolouration and the presence of membranes and geotextiles were observed across areas of the scheme.
AECOM Luton Airport Landfill Main Ground Investigation Factual Report	2019	**Area A – Former Landfill**	This is a factual GI report undertaken to inform the works associated with the expansion of the airport based on the Arup (2018) Ground Investigation Strategy. Investigation locations were more closely spaced since this was a main GI, with some off-site locations included to assess off-site conditions. No interpretation of this GI has been undertaken yet. Preliminary findings, where relevant, have been included in this report.
Mott MacDonald, Taxiway Foxtrot Verification Report	Oct 2019	**Existing Airport Land/Area A and LLAOL Contractor's Compound**	Mott MacDonald prepared a Verification Report for the remediation works completed as part of the creation of the Foxtrot Taxiway. The taxiway was constructed to the east of terminal 1 and the northeastern corner lies over the former Eaton Green Landfill. The aim of the report was to confirm that the remediation objectives identified in the Ivy House Environmental remediation method statement (RMS) were achieved. The report was submitted to discharge the second part of planning condition No. 19 related to site remediation and verification The report summarises the previous site investigations and assessments completed for the area, the earthworks and construction works completed , including materials management data relating to volumes of soil types excavated and reused or imported, verification testing of the chemical quality of the soils, volumes and type of materials disposed off-site and discussion on compliance with environmental management systems. The Information reviewed included: • Chemical test results by i2 Analytical Ltd, including soil quality and leachate analysis; • Waste acceptance criteria analysis; • As built drawings; • Hazardous waste consignment notes, waste carrier registration and landfill site permit; and • Materials Management Plan (MMP) Verification Report. The report states the earthworks were completed under a materials management plan prepared by Ivy House Environmental dated November 2018 with a QP declaration submitted in June 2019 after Environment Agency and LBC agreed in principle to the works. However, the works were completed in October and November 2018. It confirms that a variety of materials were reused in the development area; topsoil, 2C stony cohesive material from cut and drainage excavations and landfill capping materials. A total volume of 22,322m^3 of cut materials were reused in the scheme from a total volume of 24,175m^3. The chemical analysis results were verified against '*limiting criteria'* for public open space land use and leachate data against UK drinking water standards. Ivy House Environmental calculated site-specific criteria using the CLEA model for contaminants which exceeded these generic criteria; benzo(b)fluoranthene, dibenzo(ah)anthracene and lead using a commercial exposure scenario with no building present, and a human receptor of working age. Some exceedances of the applied criteria were

Report title	Date	Location	Summary of scope/findings
			noted, generally metals, however, a low risk was concluded due to the use of materials beneath hardstanding. No unexpected contamination was identified and no pollution incidents or non-compliance with environmental management plan during the works. The report notes that exported materials included landfill materials and excess 2C classified arisings, which were taken to either landfill or waste treatment facility confirmed by copies of waste transfer and hazardous waste consignment notes. A volume of topsoil was retained on site in stockpile for use around the airport. A revised CSM was produced to assess risks to receptors on completion of the works, all residual risks were concluded to be low or very low. The report concluded there was compliance with the remediation method statement.

Appendix H - **Preliminary Risk Assessment**

H1 Main Application Site CSM and PCLs

Table I1.1: Main Application Site – Area A- Former Landfill, Existing Airport Land, LLAOL Contractor's Compound, Airport Access Road, Area B and Area C CSM and PCLs

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
Area A						
1	Ground gases from former landfill e.g. methane and carbon dioxide	Migration into future buildings and build-up of gases within confined spaces.	Users of the future development – public/airport operatives/ New Century Park users	Very High	The assessment of monitoring data undertaken for the proposed NCP indicates elevated landfill gases, particularly in the areas of thicker more recent waste disposal in the north of the landfill, although associated with low flow rates. Overall the measurements typically indicated CS2 or CS3 scenario with CS4 encountered on one occasion.	Yes - further detailed assessment of recent GI to understand the gassing conditions after work is undertaken to remodel the landfill. Risk to future development can be mitigated by appropriate design of ground gas control measures.
2		Migration off-site through preferential pathways	Adjacent site users (e.g. residential housing and other buildings on Luton Airport, WVP Community Centre/ pavilion)	Moderate	Current ground gas monitoring and assessment indicates there is no evidence of landfill gas migrating to adjacent areas. However, the gassing conditions may be affected by the proposed remodelling of the landfill for the Proposed Development. Mitigation measures will be required to treat existing pathways e.g. Thames Valley Drain and install control measures e.g. vent trench, to prevent preferential pathways forming.	Yes - further detailed assessment of recent GI is required to understand the gassing conditions after work is undertaken to remodel the landfill.
3	Volatile radionuclides occupying buildings	Migration into future buildings and build-up of gases	Users of future development – public/airport	Low/ Moderate	The recent GI included testing for radionuclides, which indicated levels observed were consistent with background levels.	No

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
	overlying radioactive land contamination		operatives/ New Century Park users			
4		Migration off-site through preferential pathways	Adjacent site users (e.g. residential housing and other buildings on Luton Airport, WVP Community Centre/ pavilion)	Low/ Moderate	The recent GI included testing for radionuclides, which indicated levels observed were consistent with background levels.	No
5	Waste in former landfill	Direct contact e.g. dermal contact, soil ingestion	Construction worker	Low	Construction workers may be exposed to areas of landfill waste during excavation/construction. This can be reduced by adoption of appropriate site management protocols and PPE.	No
6			Future maintenance workers	Low/ Moderate	Maintenance workers may be exposed to areas of landfill waste during future excavation. This can be reduced by placement of services in a clean cover system and adoption of appropriate site management protocols and PPE.	No

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
7			Users of future development – public/airport operatives/ New Century Park users	Low	The GI completed to date indicates the risk to future users of the new airport development is likely to be low, most contaminants were below their respective GAC. The future development will also comprise buildings & hardstanding and therefore there is unlikely to be any contact with landfilled wastes.	Yes - further assessment will be required of the most recent GI data based on the land use scenarios associated with the proposed airport expansion to confirm this assessment.
8		Direct or indirect contact with radionuclides – incurring radiation dose by indirect dose received from ingestion of radium (or other alpha emitting contaminated material) or direct risk from contact with beta emitters such as Carbon-14 or Caesium-137	Construction workers	Low/ Moderate	Potential for radioactive materials to be present within the earlier waste which was deposited prior to the introduction of the Radioactive Substances Act in 1963. Potential for arisings from piling and foundation activities to encounter such materials. The recent GI included testing for radionuclides, which indicated levels observed were consistent with background levels.	Yes - Procedures during construction should be in place to detect any radionuclides which may be encountered.
9			Future maintenance workers	Low	Potential for radioactive materials to be present within the earlier waste which was deposited prior to the introduction of the Radioactive Substances Act in 1963. Potential for maintenance workers to be exposed to areas of landfill waste during future excavation. This can be reduced by placing of services in a clean cover system and adoption of appropriate site management protocols and PPE.	Yes - The recent GI included testing for radionuclides. Assessment of this data is required to inform the risks from this PCL.

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
10			Users of future development – public/airport operatives/ New Century Park users	Low	Radioactive material (if present) will be limited to the earlier waste in the landfill – new development unlikely to be in contact with older waste. The future development will comprise buildings & hardstanding and likely include an engineered cover layer, therefore there is unlikely to be any contact with landfilled wastes. The recent GI included testing for radionuclides, which indicated levels observed were consistent with background levels. The risk assessment suggests there are not significant concentrations of volatile contaminants present within the landfill soils/groundwater.	No
11		Inhalation of vapours	Construction worker	Low	The risk assessment suggests there are not significant concentrations of volatile contaminants present within the landfill soils/groundwater.	Yes - The recent GI included testing for vapours. Assessment of this data is required to inform the risks from this PCL.
12			Future maintenance workers	Low		
13			Users of future development – public/airport operatives/ New Century Park users	Low	The assessment of the monitoring results undertaken as part of the 2016 Structural Soils GI works indicated that levels of soil vapours did not pose a risk to future users of the Proposed Development (Hazard Index <1.0).	Yes - The recent GI included testing for vapours. Assessment of this data is required to inform the risks from this PPL.

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
14		Inhalation of airborne contaminants/ dust/ asbestos fibres and micro-organisms	Construction workers	Moderate	Construction workers are likely to be exposed to areas of landfill waste during future excavation. Any excavation work would adopt appropriate site management protocols and PPE to include personal monitoring and protection against airborne asbestos fibres as necessary based on outcome of risk assessments.	Yes – further assessment of asbestos in soils results from the recent GI.
15			Users of future development – public/airport operatives/ New Century Park users	Low	The future development will be buildings and hardstanding and likely include an engineered cover layer, therefore there is unlikely to be any exposure of landfilled waste at the surface which could generate dusts etc	No
16			Adjacent site users (e.g. residential housing, Luton Airport visitors and operatives, users of WVP)	High	Future works will require significant movement of waste i.e. for waste processing/re-engineering, therefore there is the potential for generation of airborne contaminants, which could affect adjacent site users. Good site management practices, monitoring and mitigation measures would reduce the potential risk. Any future works will be undertaken in accordance with a code of construction practice (CoCP) which would include perimeter monitoring, with adoption of additional control measures as necessary.	Yes - further assessment of asbestos in soils results from the recent GI.
17		Driving of contaminants downward during any future piling	Principal aquifer in Chalk	Moderate	The quantitative risk assessment [50] has indicated that based on current data there is a low likelihood that groundwater would be impacted by contaminants in the landfill. Care will be required during construction not to create a pathway. Risk from piling and construction can be mitigated by completion of foundation works risk assessment report to determine appropriate assessment for pile design and construction.	Yes - Further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
18		Direct contact of foundations of future development	Foundations of future buildings, and other structures such as piers/buries infrastructure	Moderate	Presence of landfill waste in contact with building foundations / buried infrastructure may cause damage to foundations through aggressive ground conditions. Site GI in the design of the foundation. Risk can be mitigated by appropriate design to select suitable foundation materials/concrete classification.	Yes
19	Japanese Knotweed	Direct contact with rhizomes on floor slabs, external pavement and drainage	Floor slabs/drainage/pavement	Moderate/ Low	Japanese Knotweed has been identified in WVP, this can cause damage to buried infrastructure/buildings and pavement through growth of rhizome. Risk can be mitigated through application of remedial works; treatment with herbicide/removal/on-site burial/containment.	Yes – remedial works
20	Landfill leachate	Direct contact e.g. dermal contact	Construction workers	Moderate/ Low	Construction workers may be exposed to landfill leachate during future excavation works. The previous GI undertaken indicates there is likely to be limited leachate present. Any excavation work would adopt appropriate site management protocols and PPE.	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.
21			Future maintenance workers	Moderate/ Low	Maintenance workers may be exposed to areas of landfill leachate during future excavation, dependent upon the remediation scheme. The previous GI undertaken indicates there is likely to be limited leachate present. Any future excavation work which exposed landfill materials would adopt appropriate site management protocols and PPE.	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.
22			Users of future development – public/airport operatives/ New Century Park users	Low	The previous GI undertaken indicates there is likely to be limited leachate present. However, the future development will be buildings and hardstanding and is likely to include an engineered cover layer and leachate control system, therefore there is limited potential for contact with any leachate in the landfill.	Yes - further detailed risk assessment of the recent GI data is required to confirm the risks from this PCL.

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
23		Downward migration of leachate	Principal aquifer in Chalk	Moderate/ Low	The previous GI undertaken indicates there is likely to be limited leachate present. The groundwater monitoring data from beneath the landfill and outside the boundary does not suggest a significant leachate plume affecting the aquifer.	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.
24		Direct contact with foundations of future development	Foundations of future structures/buried infrastructure	Moderate/ Low	Presence of leachate in contact with building foundations may cause damage to foundations through aggressive ground conditions. The previous GI undertaken indicates there is likely to be limited leachate present.	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.
25		Leachate breakout and plant uptake	Areas of Landscaping in the airport and New Century Park developments/ WVP allotments	Low	No evidence of leachate breakout currently occurring. The previous GI undertaken indicates there is likely to be limited leachate present. A clean cover system with suitable depth of growth medium will further reduce this risk.	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
26	Contaminants in perched water	Driving of contaminants downward during any future piling	Principal aquifer in Chalk	Low	The GI indicated the waste was relatively dry and no evidence of significant perched water in the landfill was encountered. Risk from piling and construction can be mitigated by completion of foundation works risk assessment to determine appropriate assessment for foundation design and construction.	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.
27		Migration of contaminants via preferential pathways e.g. drainage	Principal aquifer in Chalk	Moderate	Existing drainage runs such as the TVD could create preferential pathways.	Yes – identification and treatment of potential preferential pathways e.g. Thames Valley Drain
28			Thames Water storage pond	Very Low Risk	Thames Water compound storage pond present in the north of Area A will remain in place during the Proposed Development.	Yes Appropriate site management and construction techniques will be required during the development construction process in the vicinity of the current pond.
29	Contaminants in Made Ground (car park, capping material)	Direct contact e.g. dermal contact, soil ingestion	Construction workers	Moderate/ Low	Construction workers will likely be exposed to areas with contaminated Made Ground during earthworks. Any excavation work would adopt appropriate site management protocols and PPE.	Yes

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
30			Future maintenance workers	Moderate/ Low	Maintenance workers may be exposed to areas of contaminated Made Ground during future excavation where buried infrastructure is placed adjacent such materials. Any future excavation work would adopt appropriate site management protocols and PPE. The risk can be further reduced by placement of services in a clean cover system.	Yes
31			Users of future development – public/ airport workers/users of New Century Park	Low	The GI indicated the risk to future occupants of the development is likely to be low. The future development will incorporate hardstanding and/or include an engineered cover layer therefore there is unlikely to be any contact with contaminants in the Made Ground.	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.
32		Inhalation of soil derived dusts/ asbestos fibres	Construction workers	Moderate	Construction workers will be exposed to Made Ground during earthworks. Any excavation work would adopt appropriate site management protocols, air monitoring, personal monitoring and PPE.	Yes
33			Future maintenance workers	Moderate/ Low	Maintenance workers may be exposed to Made Ground during future excavation where buried infrastructure is placed adjacent such materials. Any future excavation work would adopt appropriate site management protocols, and PPE. Where possible services should be placed in clean cover layer.	Yes
34			Users of future development – public/ airport workers/users of New Century Park	Low	The future development will be predominately buildings and hardstanding and likely include an engineered cover layer, therefore there is unlikely to be any exposure of Made Ground at the surface which could generate dusts etc.	No
35			Adjacent site users (e.g. residential housing, Luton Airport, WVP)	Moderate/ Low	There is the potential for soil derived dusts which contain contaminants to be generated during construction works. Good site management practices and mitigation measures would reduce the potential	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
					risk, which will be detailed in the CoCP, and include perimeter monitoring.	
36		Inhalation of vapours	Construction worker	Low	The 2016 Structural Soils GI indicated levels of volatile contaminants in the Made Ground are not significantly elevated (HI <1.0), exposure is also likely to be in outdoor air and therefore vapours will be diluted.	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.
37			Future maintenance workers			
38			Users of future development – public/ airport workers/users of New Century Park	Moderate/Low	Volatile contaminants may accumulate within indoor air in future buildings. The 2016 Structural Soils GI indicated levels of volatile contaminants in the Made Ground are not significantly elevated (HI <1.0).	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.
39			Adjacent site users (e.g. residential housing, Luton Airport, WVP Buildings)	Low		
40	Contaminants in groundwater (dissolved phase)	Lateral migration of contaminants in groundwater	Controlled waters (including potable water groundwater abstraction)	Moderate	Assessment of the GI for the NCP development	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.
41	Unexploded Ordnance	Driving of piles impact UXO	Construction workers/public/terminal buildings	High/ Moderate	Based on Detailed UXO Risk Assessment 'Very High' probability of UXO on-site.	Yes - correct detection and monitoring procedures will be required during site works to mitigate risks.
Existing Airport Land						

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
1	Contaminants in Made Ground	Direct contact e.g. dermal contact, soil and/or ingestion	Construction workers	Moderate/ Low	PAHs have been encountered as above the adopted assessment criteria. Asbestos was encountered in isolated instances. Discrete/unencountered contamination may be present within the Made Ground. Any excavation work should adopt appropriate site management protocols and PPE.	Yes – additional investigation into the areas proposed for construction to verify existing mitigation requirements and design measures prior to construction.
2			Future maintenance workers	Low	Maintenance workers may be exposed to areas with contaminated Made Ground during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE.	No
3			Users of future development – members of the public/ airport operatives	Very Low	The final constructions will re-instate the hardstanding and, therefore there is unlikely to be any contact with contaminants in the Made Ground	No

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
4		Inhalation of soil derived dusts/ asbestos fibres	Construction workers	Moderate	Construction workers will be exposed to Made Ground during excavation. Any excavation work would adopt appropriate site management protocols, air monitoring, personal monitoring and PPE.	Yes - additional investigation into the areas proposed for construction to verify existing mitigation requirements and design measures prior to construction.
5			Future maintenance workers	Low	Maintenance workers may be exposed to Made Ground during future excavation where buried infrastructure is placed adjacent such materials. Any future excavation work would adopt appropriate site management protocols, and PPE. Service trenches should be backfilled with clean materials.	Yes
6			Users of development- public/ airport workers	Very Low	The future development will be predominately buildings and hardstanding, therefore there is unlikely to be any exposure of Made Ground at the surface which could generate dusts etc.	No
7			Adjacent site users (e.g. residential housing, Luton Airport)	Low	There is the potential for soil derived dusts which contain contaminants to be generated during construction works. Good site management practices and mitigation measures would reduce the potential risk, to include perimeter monitoring.	Yes
8		Inhalation of vapours	Construction worker	Low	The GI to date does not indicate there are significant concentrations of volatile contaminants presented within the Made Ground. Exposure is likely to be in outdoor air and therefore vapours will be diluted. Any work would adopt appropriate site management protocols, and PPE.	Yes – additional investigation into the areas proposed for construction to verify existing mitigation requirements and design measures prior to construction.
9			Future maintenance workers			

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
10			Users of future development- public/ airport workers	Low	Volatile contaminants may accumulate within indoor air in extensions to terminal 1 and in DART extension. The GI to date does not indicate there are significant concentrations of volatile contaminants presented within the Made Ground	Yes - additional investigation into the areas proposed for construction to verify existing mitigation requirements and design measures prior to construction.
11			Adjacent site users (e.g. residential housing, Luton Airport)	Very Low	The GI to date does not indicate there are significant concentrations of volatile contaminants presented within the Made Ground.	No
12	Contaminants in Made Ground	Leaching of contaminants in soil to groundwater	Principal aquifer in the Chalk	Low	Groundwater quality is understood to be poor within the area. Previous assessments have indicated that leaching potential is low. The construction of hardstanding is likely to limit infiltration and reduce leaching potential further.	No
13	Contaminants in Made Ground	Direct contact with contaminated materials	Building infrastructure (foundations), Services (water supply pipes)	Moderate	Aggressive ground conditions have not been assessed as part of previous reporting. Chemical attack on foundations may lead to expedited deterioration and cause stability issues to the final construct.	Yes – a BRE SD1 assessment of aggressive ground conditions should be undertaken to provide suitable classification of concrete. Should water supply pipes be included in the final scheme then a UKWIR assessment should be undertaken to inform pipe selection.

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
14	Contaminated Groundwater	Lateral migration of contaminants in groundwater off-site	Principal Aquifer	Low	Groundwater quality is understood to be poor within the area, Construction works may temporarily cause expedited migration or cause additional leaching potential by temporarily removing the hardstanding.	Yes – control measures to be included in CoCP
15	Ground gases from Made Ground (methane, carbon dioxide)	Migration into buildings and build-up of gases	Users of future development (public/airport operatives)	Very low	Previous investigation within the area indicates Made Ground is up to 1.5m in thickness which will exhibit limited gas generation. Organic content of the Made Ground beneath this area was not recorded however the log descriptions from the investigations do not indicate significant deposits or layers. Low levels of gas currently recorded.	No

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
16	Landfill gas migration (off-site source – Area A)	Lateral / vertical migration along permeable strata and migration into buildings/structures .	Users of future development (public/airport operatives)	Low to Moderate	Previous assessment has classified the area as a CS1 with a consideration to upgrade to CS2 based on a recorded carbon dioxide concentration. No evidence of landfill gas migration onto site. Extension of the DART could from T1 could create a potential migration pathway for landfill gas.	Yes - further detailed risk assessment of the recent GI data from adjacent landfill is required to confirm the risks from this PPL and inform gas protection measures to be included in design of DART extension.
17	Unexploded Ordnance	Deep excavation	Construction workers/public/ airport buildings	Moderate	Readily available information has given the area across the site a generic risk rating of “Moderate”. The site is known to have been adjacent to large manufacturing areas that may have been targeted during the war.	Yes – A detailed desktop threat assessment should be undertaken to further clarify the risks associated with UXO prior to construction.
LLAOL Contractor’s Compound						
1	Contaminants in Made Ground (including stockpiled materials)	Direct contact e.g. dermal contact, soil ingestion	Construction workers	Moderate/ Low	Construction workers will likely be exposed to areas with contaminated Made Ground during excavation/construction. Any future excavation work would adopt appropriate site management protocols and PPE.	Yes

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
2			Future maintenance workers	Low	The area is likely to undergo some filling during the development, predominately with uncontaminated soils (Clay with flints and chalk) from Area B . Maintenance workers are unlikely to be exposed to areas with contaminated Made Ground during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE. The risk can be further reduced by placement of services in a clean cover system.	No
3			Users of future development – public/ airport workers/	Low	The future development will incorporate hardstanding and/or include an engineered cover layer therefore there is unlikely to be any contact with contaminants in the Made Ground.	No
4		Inhalation of soil derived dusts/ asbestos fibres	Construction workers	Moderate	Construction workers will be exposed to Made Ground during excavation/construction. Anecdotal evidence of ACMs within stockpiles. Any excavation work would adopt appropriate site management protocols, air monitoring, personal monitoring and PPE.	Yes - further risk assessment of the recent GI data is required to inform the risks from this PCL
5			Future maintenance workers	Low	The area is likely to undergo some filling during the development. However, maintenance workers may be exposed to areas with contaminated Made Ground during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE. The risk can be further reduced by placement of services in a clean cover system.	Yes - further risk assessment of the recent GI data is required to inform the risks from this PCL

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
6			Users of future development – public/ airport workers	Low	In the short-term during construction Made Ground materials will be placed on the surface to surcharge Area A. Materials to be compacted to reduce likelihood of airborne contaminants being mobilised. The future development will be predominately buildings and hardstanding and likely include an engineered cover layer, therefore there is unlikely to be any exposure of Made Ground at the surface which could generate dusts etc.	No
7			Adjacent site users (e.g. Luton Airport, WVP)	Moderate/ Low	There is the potential for soil derived dusts which contain contaminants to be generated during construction works. The 2016 Structural Soils GI indicated that the levels of contaminants in the Made Ground are not significantly elevated although asbestos fibres have been recorded in stockpiled soils. Good site management practices and mitigation measures would reduce the potential risk, to include perimeter monitoring.	Yes - further risk assessment of the recent GI data is required to inform the risks from this PCL
8		Inhalation of vapours	Construction worker	Low	Assessment of previous GI data [50] there are no significant concentrations of volatile contaminants presented within the Made Ground (HI <1.0). Exposure is likely to be in outdoor air and therefore vapours will be diluted. Further risk assessment of the recent GI data is required to inform the risks from this PCL	Yes - further risk assessment of the recent GI data is required to inform the risks from this PCL.
9			Future maintenance workers			
10			Users of future development – public/ airport workers/users of New Century Park	Low	Volatile contaminants may accumulate within indoor air in future buildings. Previous assessment [50] suggests there are no significant concentrations of volatile contaminants presented within the Made Ground (HI <1.0).	Yes - further risk assessment of the recent GI data is required to inform the risks from this PCL.
11			Adjacent site users (e.g. residential housing, Luton	Low	Previous assessment [50] suggests there are no significant concentrations of volatile contaminants presented within the Made Ground (HI <1.0).	Yes - further risk assessment of the recent GI data is

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
			Airport, WVP Buildings)			required to inform the risks from this PCL.
12		Leaching of contaminants in soil to groundwater	Principal aquifer in Chalk	Moderate/ Low	Made Ground to be excavated and temporarily placed over landfill to surcharge landfill materials prior to development. Materials will be compacted to reduce infiltration and encourage run-off of precipitation, reducing likelihood of contaminants being mobilised. Soils will be placed permanently beneath hardstanding within the development reducing potential for infiltration and leaching of contaminants to the Principal aquifer.	Yes - further risk assessment of the recent GI data is required to inform the risks from this PCL.
13		Driving of contaminants downward during any future construction works	Principal aquifer in Chalk	Moderate/ Low	Care will be required during construction not to create a pathway. Risk from piling and construction can be mitigated by completion of foundation works risk assessment to determine appropriate assessment for pile design and construction.	Yes - further risk assessment of the recent GI data is required to inform the risks from this PCL.
14	Contaminants in groundwater (dissolved phase)	Soakaways/ storage ponds	Principal aquifer in Chalk	Moderate/ Low	Soakaways and storage ponds present within LLAOL Contractor's compound will be removed during the Proposed Development. However, the soakaways currently provide a pathway to the chalk. Appropriate site management and construction techniques will be required during the construction process to reduce the risk to eth aquifer.	Yes
15		Lateral migration	Controlled waters (including groundwater abstraction)	Low	Source unlikely to be within LLAOL Contractor's compound. However, it is thought that the groundwater in the area would be similar chemically to that within Area A.	Yes - further risk assessment of the recent GI data is required to inform the risks from this PCL.
16	Unexploded Ordnance	Driving of piles impact UXO	Construction workers/public/ terminal buildings	High	Based on Detailed UXO Risk Assessment covering part of this area – Very High . Low Risk – where works are to be undertaken within post war fill material/Made Ground .	Yes - correct detection and monitoring procedures will be required during site

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
						works to mitigate risks.
Airport Access Road						
1	Contaminants in Made Ground	Direct contact e.g. dermal contact, soil and/or ingestion	Construction workers	Moderate	GI has been completed within the site boundary, although this has not covered all areas and the works have not addressed all potential contaminant sources. Made Ground is confirmed to be present within the boundary up to 20.0m in thickness. However no formal assessment of soils analysis results has been completed. Construction workers will likely be exposed to areas with contaminated Made Ground during excavation/construction. Any future excavation work would adopt appropriate site management protocols and PPE.	Yes – assessment of previous GI data plus additional GI to fill in data gaps and confirm mitigation and design requirements prior to construction.

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
2			Future maintenance workers	Low	Future workers and end users are unlikely to encounter contaminated material due to the presence of the road hardstanding which breaks any plausible exposure pathways. If excavation was required workers would adopt appropriate site management protocols and PPE	
3		Inhalation of soil derived dusts/asbestos fibres from the Made Ground	Construction workers	Moderate	Construction workers will be exposed to Made Ground during excavation/construction. Asbestos fibres have been recorded, however no formal assessment of results has been completed. Construction workers will likely be exposed to areas with contaminated Made Ground during excavation/construction. Any future excavation work would adopt appropriate site management protocols and PPE.	Yes – assessment of available GI soils analysis results. plus additional GI to fill in data gaps and confirm mitigation and design requirements prior to construction.
4			Future maintenance workers	Low	Future workers and end users are unlikely to encounter contaminated material due to the presence of the road hardstanding which breaks any plausible exposure pathways. If excavation was required workers would adopt appropriate site management protocols and PPE	
5			Adjacent site users (e.g. commercial units, residential areas, Luton Airport)	Low	There is the potential for soil derived dusts which contain contaminants to be generated during construction works. asbestos fibres have been recorded in Made Ground. Good site management practices and mitigation measures would reduce the potential risk, to include perimeter monitoring.	

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
6		Inhalation of vapours	Construction worker	Low	Evidence of TPH odours were recorded during previous GIs. Risk to construction workers and future maintenance workers is considered to be lower than future users as exposure is likely to be in outdoor air and therefore vapours will be diluted.	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL, plus additional GI to fill in data gaps and confirm mitigation and design requirements prior to construction.
7			Future maintenance workers	Low		
8			Adjacent site users (e.g. commercial units, Luton Airport, buildings)	Low	CPAR will replace existing hardstanding however at the eastern end, the western end the route will pass through currently undeveloped land, where volatile contaminants are present this could impact vapour migration pathways. Evidence of TPH odours were recorded during previous GIs. No formal assessment of GI results have been completed to date.	
9		Leaching of contaminants to groundwater	Principal aquifer in the Chalk	Low	The presence of road hardstanding will reduce the infiltration and potential mobilisation of leachable contaminants It is also anticipated that the Airport Access Road will have a drainage and collection system to minimise percolation through contamination material.	Yes – assessment of available GI soils analysis results, plus additional GI to fill in data gaps and confirm mitigation and design requirements prior to construction.
10	Ground gases from Made Ground e.g. methane, carbon dioxide	Migration into buildings and build-up of gases (off-site)	Users of adjacent commercial properties – public/airport operatives	Moderate	Ground gases may be produced where a significant thickness of made ground is present. Significant depth of Made Ground is present at the western end of the proposed Airport Access Road.	Yes - further detailed risk assessment of the recent GI data is required to inform the risks from this PCL, plus additional GI to fill in data gaps and confirm mitigation and design requirements prior to construction

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
11	Contaminants in soils	Direct contact with contaminated materials	Building infrastructure (foundations / piled foundations), Services (water supply pipes)	Moderate	Aggressive ground conditions have not been assessed as part of previous reporting. Chemical attack on foundations may lead to expedited deterioration and cause stability issues to the final construct. Contaminants may permeate through Water supply pipes laid within contaminated soils.	Yes – a BRE SD1 assessment of aggressive ground conditions should be undertaken to provide suitable classification of concrete. Should water supply pipes be included in the final scheme then a UKWIR assessment should be undertaken to inform pipe selection.
12	Unexploded Ordnance	Encountering UXO during excavation,	Construction workers/public/ commercial units	Low/Moderate	A detailed desktop threat assessment undertaken adjacent to this site indicated a “Low” to “Medium” Risk. However, excavations are likely to be shallow as the proposed road is to be built up from existing levels.	Yes – correct detection and monitoring procedures will be required during site works to mitigate risks

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
Area B						
1	Contaminants in Made Ground (including proposed fill material)	Direct contact e.g. dermal contact, soil ingestion	Construction workers	Very Low	Very little Made Ground present within Area B. Previous GI has not identified any evidence of soil contamination in exceedance of generic guidance for public open space within the existing site materials. Fill material used on-site will be suitable for use and will not present a risk to human health or controlled waters.	No
2			Future maintenance workers			
3			Users of future development – public/ airport workers			
4		Inhalation of soil derived dusts	Construction workers	Very Low	Very little Made Ground present within Area B. Previous GI has not identified any evidence of soil contamination in exceedance of generic guidance for public open space within the existing site materials. Fill material used on-site will be suitable for use and will not present a risk to human health or controlled waters. Areas of hardstanding will further reduce the creation of dusts.	No
5			Future maintenance workers			
6			Users of future development- public/ airport workers			
7			Adjacent site users (e.g. residential housing, Luton Airport)			

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
8		Inhalation of vapours	Construction worker	Very Low	Very little Made Ground present within Area B. GI data indicates levels of volatile contaminants in the Made Ground are not significantly elevated. Fill material used on-site will be suitable for use and will not present a risk to human health or controlled waters.	No
9			Future maintenance workers			
10			Users of future development- public/ airport workers			
11			Adjacent site users (e.g. residential housing, Luton Airport)			
12		Leaching of contaminants in soil to groundwater	Principal aquifer in the Chalk	Very low	Previous GI has not identified any evidence of soil contamination across the area which is considered to pose a risk to groundwater. Fill material used on-site will be suitable for use and will not present a risk to human health or controlled waters.	No
13	Contaminated Groundwater	Lateral migration in groundwater off-site	Principal aquifer	Moderate/ Low	Contaminants have been recorded in groundwater beneath Area B, which exceed generic guidance. Subsequent to groundwater monitoring ammoniacal nitrogen has been identified as a contaminant which could impact off-site receptors. However, it may be representative of general groundwater quality in the area due to agricultural land uses.	Yes - Further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.
14	Ground gases from Made Ground e.g. methane, carbon dioxide	Migration into buildings and build-up of gases	Users of future development – public/airport operatives	Very low	Very little Made Ground present within Area B and low levels of ground gas currently recorded.	Yes - Further detailed risk assessment of the recent GI data is required to inform the risks from this PCL.

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
15	Unexploded Ordnance	Driving of piles impact UXO	Construction workers/public/airport buildings	Low	Based on Dynasafe Explosive Ordnance Desktop Threat Assessment, Low Risk of UXOs .	Yes - adopt appropriate site protocols.
Area C						
1	Contaminants in Made Ground	Direct contact e.g., dermal contact, soil ingestion	Users of future development- public/ airport workers/	Very Low	No previous historical contaminative use of this area. The site is considered a greenfield site and no source of contamination. Therefore, unlikely for a PCL to be formed.	No
2			Construction workers			
3			Future maintenance workers			
4		Inhalation of soil derived dusts	Construction workers	Very Low	No previous historical contaminative use of this area. The site is considered a greenfield site and no source of contamination. Therefore, unlikely for a PCL to be formed.	No
5			Future maintenance workers			
6			Users of future development- public			
7			Adjacent site users e.g. residential housing,			
8		Inhalation of vapours	Construction worker	Very Low	No previous historical contaminative use of this area. The site is considered a greenfield site and no source of contamination. Therefore, unlikely for a PCL to be formed.	No
9			Future maintenance workers			
10			Users of future informal parkland- public			
11		Leaching of contaminants in soil to groundwater	Principal aquifer in the Chalk	Very low	No previous historical contaminative use of this area. The site is considered a greenfield site and no source of contamination. Therefore, unlikely for a PCL to be formed.	No

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification	PCL requires further assessment / consideration
12	Contaminated Groundwater	Lateral migration in groundwater off-site	Principal aquifer	Very Low	No previous historical contaminative use of this area. The site is considered a greenfield site and no source of contamination. Therefore, unlikely for a PCL to be formed.	No
13	Unexploded Ordnance	Excavation of chalk in the southern area	Construction workers/public	Low	A low risk of UXO being present. However, it is known that unused bombs were often jettisoned by the Luftwaffe aircraft in open countryside and there is the potential for unexploded bombs.	Yes - appropriate site protocols to be adopted in areas of intrusive works for proposed infiltration basin.

H2 Off-site Car Parks - Areas D and E

Table I2.1: Areas D and E CSM and PCLs.

PCL No.	Sources	Pathways	Receptors	Qualitative Assessment of Risk	Justification of Qualitative Assessment of Risk	PCL requires further assessment/ consideration
On-site						
1	Contaminants in Made Ground	Direct contact e.g. dermal contact, soil ingestion	Construction workers	Moderate/ Low	Based on desk study information the overall risk of contamination is considered low. The areas are likely to undergo some reprofiling during the development, and there may be pile arisings in Area E where multi-storey car park is proposed, if such a foundation solution is adopted. Construction workers will likely be exposed to areas of Made Ground during excavation/construction.	Yes - GI and risk assessment should be undertaken to inform the potential risk to human health from contaminants in the soil, prior to construction, to verify mitigation requirements and design measures.
2			Future maintenance workers	Moderate/ Low	The sites will predominantly be covered in hardstanding, therefore there is unlikely to be contact with underlying soils. Any future excavation work would adopt appropriate site management protocols and PPE. The risk can be further reduced by placement of services in a clean cover system. Ground investigation and testing is required to identify any contaminants present.	
3			Future users of car park	Low	The future development will incorporate hardstanding therefore there is unlikely to be any contact with contaminants in the Made Ground.	No
4		Inhalation of soil derived dusts/ asbestos fibres	Construction workers	Moderate	The area is likely to undergo some reprofiling during the development. Construction workers will be exposed to Made Ground during excavation/construction which may contain ACMs. Any excavation work would adopt appropriate site management protocols, air monitoring, personal monitoring and PPE.	Yes - GI and risk assessment should be undertaken to inform the potential risk to human health from contaminants in the soil, prior to construction, to verify mitigation requirements and design measures.
5			Future maintenance workers	Moderate/ Low	The future development will be predominantly hardstanding, however, maintenance workers may be exposed to areas with contaminated Made Ground during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE. The risk can be further reduced by use of clean materials to backfill service trenches.	

PCL No.	Sources	Pathways	Receptors	Qualitative Assessment of Risk	Justification of Qualitative Assessment of Risk	PCL requires further assessment/ consideration
6			Future users of car park	Low	The future development will be predominately hardstanding and therefore there is unlikely to be any exposure of Made Ground at the surface which could generate dusts etc.	Yes - GI and risk assessment should be undertaken to inform the potential risk to human health from contaminants in the soil, prior to construction, to verify mitigation requirements and design measures.
7			Adjacent site users (e.g. commercial units/DART passengers)	Moderate/ Low	There is the potential for soil derived dusts which contain contaminants to be generated during construction works. Good site management practices and mitigation measures would reduce the potential risk, to include perimeter monitoring.	
8		Inhalation of vapours	Construction worker	Very low to Low	Presence of vapours is unknown. Risk to construction workers and future maintenance workers is considered to be low as exposure is likely to be in outdoor air and therefore vapours will be diluted.	Yes - GI and risk assessment should be undertaken to inform the potential risk to human health from contaminants in the soil, prior to construction, to verify mitigation requirements and design measures.
9			Future maintenance workers			
10			Future users of car park	Very Low	Proposed use of car park has little potential for enclosed buildings.	No
11			Adjacent site users (e.g. commercial units/DART passengers)	Very Low	Good site management practices and mitigation measures would reduce the potential risk, to include perimeter monitoring.	Yes - GI and risk assessment should be undertaken to inform the potential risk to human health from contaminants in the soil, prior to construction, to verify mitigation requirements and design measures.

PCL No.	Sources	Pathways	Receptors	Qualitative Assessment of Risk	Justification of Qualitative Assessment of Risk	PCL requires further assessment/ consideration
12		Leaching of contaminants in soil to groundwater	Principal aquifer in Chalk	Moderate	Made Ground is anticipated across both areas which could contain leachable source of contamination.	Yes - GI and risk assessment should be undertaken to inform the potential risk to the groundwater from contaminants in the soil.
13		Migration of contaminants through preferential pathways e.g. drainage	River Lea	Low	The River Lea is 400m south of Area D and 250m southwest of Area E. The distance for contaminants to travel means it is unlikely that significant concentrations are reaching the watercourse from the site.	Yes - appropriate methods should be taken during site works to locate previous drainage and utility trenches and remove the possible pathway to any construction works should have mitigation measures for managing drains encountered during the works.
14		Driving of contaminants downward during any future piling	Principal aquifer in Chalk	Moderate/ Low	Care will be required during construction not to create a pathway. Risk from piling and construction can be mitigated by completion of piling risk assessment report to determine appropriate assessment for pile design and construction.	Yes - GI and assessment required to confirm risk.
15	Contaminants in soils	Direct contact with contaminated materials	Building infrastructure (foundations / piled foundations), Services (water supply pipes)	Moderate	Aggressive ground conditions have not been assessed as part of previous reporting. Chemical attack on foundations may lead to expedited deterioration and cause stability issues to the final construct. Contaminants may permeate through Water supply pipes laid within contaminated soils.	Yes – a BRE SD1 assessment of aggressive ground conditions should be undertaken to provide suitable classification of concrete. Should

PCL No.	Sources	Pathways	Receptors	Qualitative Assessment of Risk	Justification of Qualitative Assessment of Risk	PCL requires further assessment/ consideration
						water supply pipes be included in the final scheme then a UKWIR assessment should be undertaken to inform pipe selection.
16	Contaminants in groundwater (dissolved phase)	Lateral migration of contaminants through preferential pathways i.e. drainage	River Lea	Low	Area D is 400m from the River Lea, as such there is a minimal chance of pathways present to surface waters. Area E is closer being 250m from the River Lea, as such appropriate measures should be taken during site works to locate previous drainage and utility trenches and remove possible pathway.	Yes - new service runs should be designed appropriately to ensure no migration of contamination.
17		Migration of contaminants through preferential pathways i.e. piling	Principal aquifer	Moderate	Potential for the construction to require piles. Care will be required during construction not to create a pathway. Risk from piling and construction can be mitigated by completion of piling risk assessment report to determine appropriate assessment for pile design and construction.	Yes - GI and assessment required to confirm risk.
18	Unexploded Ordnance	Driving of piles impact UXO	Construction workers/adjacent commercial properties/ railway line/ public highways	Low/ Moderate	Nearby UXO assessment suggests Low to Medium risk of UXO.	Yes - formal UXO assessment required for Areas D and E.

H3 Off-site Sources

Table I3.1: Off-site Sources CSM and PCLs

PCL No.	Sources	Pathways	Receptors	Qualitative Assessment of Risk	Justification of Qualitative Assessment of Risk	PCL requires further assessment/ consideration
1	Contaminants in groundwater associated with wider Luton area	Lateral migration in groundwater onto site	Principal aquifer in Chalk	Moderate	Contaminants in groundwater from the around the site may migrate onto site. Groundwater beneath the development area may be affected by the low level 'halo' of chlorinated solvents which is present in the Luton and Dunstable area.	Yes - further risk assessment of the recent GI data is required to inform the risks from this PCL.
2	Contaminants in adjacent land (e.g. motor works, railway land, sewage works etc.) - adjacent to Areas D and E	Lateral migration of contaminants in groundwater	Principal aquifer	Moderate/ Low	Potential for contaminants to migrate on-site should be confirmed during the ground investigation works.	
3		Inhalation of vapour	Future maintenance workers/users of the site	Low	Potential for permeable horizons or services which may run between the two sites to provide a preferential pathway for migration of vapours.	

H4 Off-Site Planting

Table I4.1: Off-site Planting CSM and PCLs

PCL No.	Source	Pathway	Receptor	Qualitative Assessment of Risk	Justification of Qualitative Assessment of Risk	PPL requires further assessment/ consideration
Hedgerow Improvements						
1	Contaminants in Made Ground	Direct contact e.g. dermal contact, soil ingestion	Landscape Contractor	Very Low	The historical review has identified limited development for the Off-site planting areas. The areas are considered greenfield and no source of contamination. Therefore, unlikely a PCL would be formed	No

H5 Off-site Highway Interventions

Table I5.1: Off-site Highway Interventions CSM and PCLs

PCL No.	Source	Pathway	Receptor	Qualitative assessment of risk	Justification of Qualitative Assessment of Risk	PCL requires further assessment/ consideration
On-Site						
1	Contaminants in Made Ground	Direct contact e.g. dermal contact, soil and/or ingestion	Construction workers	Very Low to Low Risk	No investigations have occurred within the HI site boundaries, however Made Ground is anticipated to be present. Based on the history of the sites the contamination potential is deemed vary from unlikely where there have been no potentially contaminative activities on site to low likelihood where there have been potentially contaminative activities on site and in the surrounding area. Construction workers will likely be exposed to areas of Made Ground during excavation/construction. Any future excavation work would adopt appropriate site management protocols and PPE.	Yes – GI into the areas proposed for construction would clarify the risks and reduce uncertainty, prior to construction, to verify mitigation requirements and design measures
2			Future maintenance workers	Very Low	Future maintenance workers are unlikely to encounter contaminated material due to the presence of the road hardstanding which breaks any plausible exposure pathways. If excavation work is required workers would adopt appropriate site management protocols and PPE.	Yes – GI into the areas proposed for construction would clarify the risks and reduce uncertainty, prior to construction, to verify mitigation requirements.
3			Future Road users	Very Low	Future end users are unlikely to encounter contaminated material due to the presence of the road hardstanding which breaks any plausible exposure pathways.	No
4		Inhalation of soil derived dusts/asbestos	Construction workers	Very Low to Low	The area is likely to undergo some reprofiling during the development. Construction workers will be exposed to Made Ground during excavation/construction which may contain ACMs. Any excavation work would adopt appropriate site management protocols, air monitoring, personal monitoring and PPE.	Yes – GI into the areas proposed for construction would clarify the risks and reduce uncertainty, prior to construction, to verify mitigation requirements.

PCL No.	Source	Pathway	Receptor	Qualitative assessment of risk	Justification of Qualitative Assessment of Risk	PCL requires further assessment/ consideration
5			Future maintenance workers	Very Low	The future development will be predominantly hardstanding, however, maintenance workers may be exposed to areas with contaminated Made Ground during future excavation. Any future excavation work would adopt appropriate site management protocols and PPE. The risk can be further reduced by use of clean materials to backfill service trenches.	Yes – GI into the areas proposed for construction would clarify the risks and reduce uncertainty, prior to construction, to verify mitigation requirements.
6			Future road users	Very Low	The future development will be predominately hardstanding and therefore there is unlikely to be any exposure of Made Ground at the surface which could generate dusts etc.	No
7			Adjacent site users (e.g. residential housing, Luton Airport)	Very Low	There is the potential for soil derived dusts which contain contaminants to be generated during construction works. Good site management practices and mitigation measures would reduce the potential risk, to include perimeter monitoring.	Yes - GI into the areas proposed for construction would clarify the risks and reduce uncertainty, prior to construction, to verify mitigation requirements.
8		Inhalation of vapours	Construction worker	Very low to Low	Presence of vapours is unknown. Risk to construction workers and future maintenance workers is considered to be low as exposure is likely to be in outdoor air and therefore vapours will be diluted.	Yes - GI and risk assessment should be undertaken to inform the potential risk to human health from contaminants in the soil, prior to construction, to verify mitigation requirements and design measures.
9			Future maintenance workers	Very Low		
10			Future users of car park	Very Low	The future development will be predominately hardstanding and therefore there is unlikely to be any PCL for vapours.	No
11			Adjacent site users (e.g. commercial units/residential/ public	Very Low	Good site management practices and mitigation measures would reduce the potential risk, to include perimeter monitoring.	Yes - GI and risk assessment should be undertaken to inform the potential risk to human health from contaminants in the soil, prior to construction, to verify

PCL No.	Source	Pathway	Receptor	Qualitative assessment of risk	Justification of Qualitative Assessment of Risk	PCL requires further assessment/ consideration
						mitigation requirements and design measures.
12	Contaminants in Made Ground	Direct contact with contaminated materials	Building infrastructure foundations	Low	Aggressive ground conditions have not been assessed as part of previous reporting. Chemical attack on foundations may lead to expedited deterioration and cause stability issues to the final construct.	Yes – a BRE SD1 assessment of aggressive ground conditions should be undertaken to provide suitable classification of concrete.
13	Unexploded Ordnance	Encountering UXO during excavation, piled solution may come into direct contact with UXO.	Human health – Construction workers, adjacent land users public and airport buildings and infrastructure	Moderate/Low	Readily available information has given each site a generic risk rating of “Low” or “Moderate”. However, any excavations should be shallow and unlikely to encounter UXO.	No