Meridian Solar Farm

EN010169

Volume 6

Environmental Statement

6.2 ES Figure 5-5: Contaminated Land Assessment for the Grid Connection Route

APFP Regulation 5(2)(a)

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

March 2026

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Executive Summary

Item	Summary
Report Purpose	This report relates to an area referred to as the Grid Connection Route Extension of the Meridian Solar Farm. The Grid Connection Route would be the area between the Solar Development Area and the National Grid Weston Marsh B Substation in which a 400kV overhead line (the 'Grid Connection') would be located. The Grid Connection Route Extension relates to the northernmost section of the Grid Connection Route. Works required within the Grid Connection Route Extension subject to the assessment in this report (hereafter referred to as the 'Site'), include the construction, operation and decommissioning of a 400kV overhead line and associated infrastructure, including temporary construction working areas, access roads, access crossings and the diversion of third-party assets. The **Draft DCO** (Doc Ref. 3.1) also incorporates flexibility for an underground cable to be constructed in this area instead of the overhead line. The objective of this Desk Study is to characterise the environmental setting and sensitivity across the Site, along with the potential for contamination to exist and the pathways through which contamination may come into contact with sensitive receptors given the Scheme.
Geology	The geology across the Site is dominated by Tidal Flat Deposits, overlying potential Glacial Deposits (Till) and the Oxford Clay Formation bedrock. Both the superficial deposits and bedrock at the Site are designated as an Unproductive Aquifer. Glacial Deposits (Till) (potentially present underlying the Tidal Flat Deposits) is typically classified as a Secondary (undifferentiated) aquifer.
Site Setting and Historical Land use	The Site is located south of Kinder Garden Plants Ltd also known as Sunnyfield Nurseries, Spalding PE12 6HH. The Site of the Scheme includes agricultural fields, which are predominantly flat and are bounded by drainage ditches. A review of the earliest available historical maps revealed the Site to have been presumed agricultural land since at least 1887. The area is labelled Spalding Marsh on maps; however, this appears to

Item	Summary
	be a historic reference name as the area is not shown as marshland on maps and during the site walkover no signs of marshland were identified. An extensive network of drainage ditches surround the Site. Wheat Mere Drain is located south-east of the Site along the Order Limits, which is mapped in 1903 as flowing north-west and feeds into Lord's Drain which runs along east of the Order Limits.
Contaminated Land Risk Assessment	A limited number of potential sources of contamination have been identified within the Site boundary relating to the existing and historical use of the Site as agricultural land. Current uses of the Site could also represent potential sources of contamination such as fly tipping observed within the drainage ditches. A limited number of potentially contaminating land uses have also been identified in the surrounding area such as the tanks and potential asbestos containing material (ACM) in Marsh Farm yard, and potentially infilled historical ponds and ground workings.
Recommendations	Ground investigation is recommended to support earthworks and design development and to assess and confirm the potential pollutant linkages.

1. Introduction

1.1. Background

1.1.1. This report comprises a geo-environmental desk study for land near Weston Marsh, referred to as the 'Grid Connection Route Extension' of the Meridian Solar Farm.

1.1.2. The contaminated land assessment presented within this report only considers the area required for the Grid Connection Route Extension, as shown on Figure 1, Annex A. A contaminated land assessment for the remaining areas of the Scheme is presented within **ES Appendix 5-4: Contaminated Land Assessment** (Doc Ref. 6.3).

1.2. The Scheme

1.2.1. The Meridian Solar Farm (hereafter referred to as the Scheme) would comprise the construction, operation (including maintenance) and decommissioning of a solar PV electricity generating station with associated infrastructure, including co-located Battery Energy Storage System (BESS), Inter-Array Connections to link the land parcels that form the Solar Development Areas, and an up to 13km overhead line Grid Connection (with one short undergrounded section) which would run north towards a point of connection (PoC) at the proposed Weston Marsh B National Grid Electricity Transmission (NGET) substation, to the north of Weston.

1.2.2. The Solar PV generating station, associated BESS, on-site substations and other associated infrastructure would be located within four land parcels (A, B, C and D) referred to collectively as the Solar Development Area, as shown in **ES Figure 1-1** (Doc Ref. 6.2).

1.2.3. The Inter-Arrays would be the areas within which 132kV connection cables (the 'Inter-Array Connections') would link the land parcels of the Solar Development Area. The configuration of the Inter-Array Connections would comprise underground cabling between Land Parcels A and B ('the Underground Inter-Array') and an overhead line between Land Parcels C and D ('the Overground Inter-Array').

1.2.4. The Grid Connection Route would be the area between the Solar Development Area and the National Grid Weston Marsh B Substation in which a 400kV overhead line (the 'Grid Connection') would be located. There is one section

where the Grid Connection would route underground to avoid conflicts with an existing 132kV overhead line. Cable Sealing End Compounds (CSECs) would join the proposed underground cable at that section with the proposed overhead line.

1.2.5. The Grid Connection would connect to the proposed 400kV National Grid Weston Marsh B Substation which is being delivered by NGET as part of the Grimsby to Walpole Development Consent Order (DCO) project and not part of this DCO application.

1.3. The Site

1.3.1. The Applicant extended the Grid Connection Route of the Scheme following National Grid's consultation on the proposed location of Weston Marsh B Substation in November 2025 to enable connection to that substation.

1.3.2. Works required within the Grid Connection Route Extension subject to the assessment in this report (hereafter referred to as the 'Site') include the construction, operation and decommissioning of a 400kV overhead line and associated infrastructure, including temporary construction working areas, access roads, access crossings and the diversion of third-party assets. The **Draft DCO** (Doc Ref. 3.1) also incorporates flexibility for an underground cable to be constructed in this area instead of the overhead line.

1.4. Aims and Objectives

1.4.1. The primary aims of this report are to:

- Determine whether potentially contaminative uses have taken place within, or in close proximity to, the Site which could have led to the contamination of underlying soils or groundwater;
- Identify viable source-pathway-receptor contaminant linkages associated with the identified (potential) contamination; and
- Evaluate the level of risk associated with each contaminant linkage and provide recommendations for next steps.

1.4.2. In order to fulfil the report aims, the following objectives will be completed:

- Describe the geology, hydrogeology and shallow mining potential;
- Describe the environmental setting/ sensitivity and current/ historical land use of the Site and surrounding area;
- Describe the findings of a Site reconnaissance visit;
- Summarise the findings of any historical ground investigation work;

- Provide a Preliminary Conceptual Site Model (CSM) using the source-pathway-receptor approach for the prevailing ground conditions;
- Complete a preliminary qualitative risk assessment based on the CSM, addressing human health, controlled waters, ecological and property receptors; and
- The report concludes with a series of recommendations for undertaking further investigative work. The purpose of such is to substantiate the findings of the preliminary risk assessment and thereby refine the CSM.

1.5. Sources of Information

1.5.1. This report has been prepared using a combination of published records (e.g. British Geological Survey (BGS), Environment Agency, Department for Environment, Food & Rural Affairs (Defra)), and information provided by the Applicant (where available). These include statutory records and historical mapping supplied within the Groundsure Report (refer to Annex D), published geological and hydrogeological mapping, historical borehole records and observations made during the Site reconnaissance. Specific information sources are referenced throughout the document.

1.6. Report Approach

1.6.1. Detailed information relating to the approach adopted in this report is included within Annex B. This should be read in conjunction with the report, and contains information on the general approach to reporting, specific limitations of relevant sections and information on the approach to risk assessment utilised.

2. Site Information

2.1. Study Area

2.1.1. For the purposes of determining the local baseline conditions with respect to geology and contaminated land, a study area that extends 250m from the boundary of the Site is adopted. This is extended for hydrogeology to 1km from the boundary of the Site. This is considered appropriate to assess the local geological and hydrogeological setting, and any influence that potential contaminated land might have on the Scheme or local receptors. The study areas are presented on Figure 1, Annex A.

2.2. Site Details

2.2.1. The Site description and location details are summarised in Table 2-1 Site Details below.

Table 2-1: Site Details

Item	Summary
Grid reference	Approximate grid reference 528182, 326809.
Size	111ha
Site location	Fields south of Kinder Garden Plants Ltd, also known as Sunnyfield Nurseries, Spalding PE12 6HH, within the area identified as Spalding Marsh.
Current use	The Site includes agricultural fields, which are predominately flat and are bounded by drainage ditches. Stone Gate road and other tracks intersect the Site.
Surrounding land uses	Surrounding land uses include: • North – Agricultural fields are located immediately to the north of the Site as well as occasional houses, Sunnyfield Nurseries and Marsh Road. • East – Agricultural fields are located immediately to the east of the Site, occasional houses (including Shepherd's Farm) and Lord's Drain.

Item	Summary
	• South – Agricultural fields are located immediately to the south of the Site, along with Lord's Drain and Wheat Mere Drain. • West - Agricultural fields are located immediately to the west of the Site along with Marsh House Farm, Marsh Road and occasional houses. South-west of the Site lies Ruins of the Chapel of St Nicholas (which is also referred to as remains of Wykeham Chapel) and Wykeham Farm.

2.3. Site Reconnaissance

2.3.1. An inspection of the Site was completed by suitably qualified and experienced environmental consultants on 28 January 2026. The aim of the visit was to identify the range of activities carried out on the Site and any obvious potential sources of ground contamination.

2.3.2. Table 2-2 Walkover Information identifies a summary of the principal observations made during the visit. This section should be read in conjunction with the figures and photographic record of the Site provided in Annex C.

Table 2-2: Walkover Information Summary for the Site

Item	Summary
Site description	The majority of the Site comprises agricultural fields (Photo 7) either under arable production or ploughed (Photo 9) with some trees, hedgerows and shrubs. Sheep were observed in some of the fields (Photo 7). To the north of the Site along Marsh Road is Sunnyfield Nurseries with many greenhouses. Adjacent to the south-west corner of the Site is Wykeham Farm, and a pond (off-site). This area also includes the Ruins of the Chapel of St Nicholas, which being on private land was not accessed during the walkover. The main watercourse in the surrounding area is the River Welland (Photo 6) located 435m west of the Site and positioned beyond a raised embankment running parallel to Marsh Road. There are several drains within the Site

Item	Summary
	identified as Wykeham Drain (Photo 14), Lord's Drain (Photo 11) and Wheat Mere Drain. Wykeham Drain intersects the central area of the Site running west – east. Lord's Drain runs along the eastern boundary of the Site before branching off to the east where it meets Wykeham Drain. Wheat Mere Drain runs along the southeastern corner boundary of the Site. Adjacent to the public roads are drainage ditches of varying depth, typically between 1.0 – 2.0m. Most were observed to have standing water, although there had been heavy rainfall prior to the visit. The area is called Spalding Marsh on maps; however this is thought to be a historic name, with no areas of marshland present, as evidenced from the Site walkover.
Topography	The topography of the Site is relatively flat and low lying varying between approximately 3.0 – 4.0m AOD.
Bulk hazardous storage and other observations of potential contaminants	No bulk hazardous storage areas were observed during the walkover. Several tanks within Marsh House Farm yard (adjacent to the west) were noted however the contents are unknown (Photo 8). There is the potential for ACM (asbestos containing materials) to be within the barn structure at Marsh House Farm yard.
Waste streams – including fly-tipped/historic waste	Flying tipping was observed within several of the drainage ditches as shown in Photos 5, 12 and 13. This included car tyres, plastic, black bags, wood and metal.
Invasive plant species	No invasive plants observed during the walkover.

3. Historical Land Use

3.1. Introduction

3.1.1. Historical Ordnance Survey (OS) maps of the Site and the wider environs were provided in the Groundsure Map Insight Report (scales 1:2,500, 1:10,560 and 1:10,000 and dated between 1887 and 2025) and from publicly accessible aerial photography and these are reviewed in this section. Copies of these maps are presented in Annex D.

3.2. Site and Surrounding Area History

3.2.1. Table 3-1 Summary of Historical Mapping presents a summary of the main features present on and within approximately 250m radius of the Site boundary.

Table 3-1: Summary of Historical Mapping

Date/s	Key Features on-site	Key Features off-site (within 250m)
1887 (1:10,560) 1888 (1:2,500)	• The Site is undeveloped. • Several small ponds mapped within the Site. • "Roman Bank" across the northern part of the Site (west – east). • Wykeham Drain located west of the Site and crosses the northern area, adjacent to the Roman Bank, marked as flowing east.	• Surrounding area is predominately undeveloped, comprising agricultural land. • There is an area adjacent to the southwest corner of the Site mapped as "Wykeham Farm". Wykeham Chapel (in ruins), a pump, and moat is adjacent to the Site and Wykeham Farm. • Several ponds are located within 250m of the Site. The largest pond is located approximately 190m west.
1903 (1:10,560)	• "Wheat Mere Drain" located along the southeastern boundary of the Site, which is mapped as flowing northwest	• No significant changes.

Date/s	Key Features on-site	Key Features off-site (within 250m)
	and feeds into Lord's Drain which runs along the eastern boundary of the Site and runs off-site to the west. • The northern area of the Site is labelled as Spalding Marsh.	
1904 (1:2,500) 1906 (1:10,560)	• No significant changes.	• No significant changes.
1950 (1:10,560) 1956 (1:10,560)	• "Roman Bank" is now labelled as "Sea Bank" in 1950.	• The pump to the southwest of the Site is no longer labelled.
1968 – 1963 (1:2,500) 1969 – 1972 (1:2,500	• The line in the middle of the Site is identified as a drain and runs north – south.	• The pond 190m west is longer mapped in 1969 – 1972 (1:2,500).
1975 (1:10,000) 1972 – 1973 (1:2,500)	• No significant changes.	• Nursery with tanks approximately 135m north-west of the Site. Buildings adjacent to south-east labelled as Shepherds Farm.
1987 (1:2,500) 1989 (1:10,000) 1995 (1:2,500)	• No significant changes.	• Marsh Farm House is shown in 1987 adjacent to the western Site boundary. • In 1987, the nursery becomes more developed with tanks and greenhouses.
2001, 2010, 2015 and 2025 (1:10,000) 2003 (1:2,500)	• No significant changes.	• No significant changes.

3.3. Summary of Potential Historical Contamination Sources

3.3.1. This section summarises potential contamination on-site and in the vicinity, associated with historical features identified in Section 3.2. These include:

- Agricultural land and Farms (on-site and surrounding the Site, including Marsh House Farm yard, Shepherds Farm and Wykeham Farm);
- Tanks and potential ACM identified within Marsh House Farm yard (unknown contents) (adjacent);
- Former ponds – potentially infilled (several on-site and off-site within 250m), and
- Nursery with tanks to the north west of the Site.

4. Environmental Setting

4.1. Introduction

4.1.1. The environmental setting including the topography, geology, hydrogeology and hydrology are the key factors that influence the way in which contaminants in the soil or groundwater can be transported on or off-site, and also the way in which contamination can affect applicable receptors including controlled waters and users of the site.

4.1.2. The environmental setting of the Site has been assessed by referring to the information sources detailed in the Groundsure Report (Annex D).

4.2. Hydrology

Surface Water Features

4.2.1. The Groundsure Report has been reviewed to identify relevant hydrological features on-site and in the surrounding area. The on-site hydrology is summarised in Table 4-1 Summary of On-site Hydrologybelow.

4.2.2. Further details on hydrological features are provided in **ES Appendix 11-5: Hydrology and Flood Risk Baseline** (Doc Ref 6.3) and **ES Chapter 11: Hydrology and Flood Risk** (Doc Ref. 6.1).

Table 4-1: Summary of On-site Hydrology

Feature	Flow Direction	Ground Level	Description
Inland river not influenced by normal tidal action.	Not given	On ground surface	Unnamed watercourses
Inland river not influenced by normal tidal action.	Not given	On ground surface	Lord's Drain
Inland river not influenced by normal tidal action.	Not given	On ground surface and underground (culverted)	Wykeham Drain
Inland river not influenced by normal tidal action.	Not given	On ground surface and underground (culverted)	Wheat Mere Drain

4.2.3. The Groundsure Report indicates that the Site is within the surface water body catchment of the Moulton River (Water Body ID GB205031050755). This is

within the Well and Lower catchment area and has a 'moderate' overall rating (2019), 'moderate' ecological rating and the chemical status 'does not require assessment'.

Surface Water Abstractions / Discharges

4.2.4. According to the Groundsure Report and correspondence with the Environment Agency, there are no surface water abstractions or Private Water Supplies (PWS) recorded within 250m of the Site.

Risk of Flooding

4.2.5. The Groundsure Report indicates the Site is at Medium risk from flooding from rivers. These areas are predominately the south and northern extents of the Site. The remaining areas are Low to Very Low risk.

4.2.6. There is a small area in the north of the Site, which is under Flood Zone 2, however the Site is predominately within Flood Zone 3.

The Environment Agency defines Flood Zone 2 and 3 as:

- Flood Zone 2 – Land having between 0.1% - 1% (1 in 100 to 1 in 1000) annual probability of flooding from rivers or between 0.1% - 0.5% (1 in 200 to 1 in 1000) annual probability of flooding from the sea and accepted recorded flood outlines.
- Flood Zone 3 – Areas shown to be at a 1% (1 in 100) or greater annual probability of flooding from rivers or 0.5% (1 in 200) or greater annual probability of flooding from the sea.

4.2.7. The Groundsure Report indicates the highest risk on Site for surface water flooding is 1 in 30 years (0.3m – 1.0m).

4.2.8. A site-specific Flood Risk Assessment (FRA) has been prepared for the Scheme and is presented within **ES Appendix 11-3: Flood Risk Assessment** (Doc Ref 6.3).

4.3. Geology

Published Geology

4.3.1. The published BGS 1:50,000 scale geological map Sheet 144 Spalding[1],the BGS Onshore Geoindex[2] and the BGS Lexicon of Named Rock Units[3] have been reviewed along with the Groundsure Report to determine the published geology underlying the Site which is summarised in Table 4-2 Geology across the Site.

Table 4-2: Geology across the Site

Age	Group	Stratum	Published Description from BGS Units[4]	Thickness	Location
Quaternary	Superficial deposits	Tidal Flat Deposits (clay and silt)	*'Tidal flat deposits, including mud flat and sand flat deposits, form extensive nearly horizontal marshy land in the intertidal zone that is alternately covered and uncovered by the rise and fall of the tide.'*	Unknown	On-site and off-site
Quaternary	Superficial deposits	Glacial Deposits Although not obvious on available maps, this is potentially present underlying the	*'Till is unsorted and unstratified drift, generally over consolidated, deposited directly by and underneath a glacier without subsequent*	Unknown	On-site and off-site

[1] British Geological Survey (BGS), Geological Survey of England and Wales, Solid and Drift Geology, 1:50 000 geological map series, 1992. Sheet 144 (Spalding, 1:50,000 scale). [Accessed February 2026]
[2] British Geological Survey (BGS), GeoIndex Onshore (2020). Available at: https://mapapps2.bgs.ac.uk/geoindex/home.html [Accessed February 2026]
[3] British Geological Survey (BGS), The BGS Lexicon of Named Rock Units. Available at: SEARCH Rock Name Database | Lexicon of Named Rock Units | British Geological Survey (BGS) [Accessed February 2026]
[4] British Geological Survey (BGS), The BGS Lexicon of Named Rock Units. Available at: SEARCH Rock Name Database | Lexicon of Named Rock Units | British Geological Survey (BGS) [Accessed February 2026]

Age	Group	Stratum	Published Description from BGS Units[4]	Thickness	Location
		Tidal Flat Deposits: visible on cross-section on Sheet 144, and described on Sheet 144 as 'widespread' in the area	*reworking by water from the glacier. It consists of a heterogenous mixture of clay, sand, gravel, and boulders varying widely in size and shape.'*		
Callovian	Bedrock geology	Oxford Clay Formation (mudstone)	*'Silicate-mudstone, grey, generally smooth to slightly silty, with sporadic beds of argillaceous limestone nodules.'*	60 to 76m	On-site and off-site

BGS Historical Borehole Records

4.3.2. The BGS historical borehole record database was reviewed for relevant records relating to the Site and immediate surrounding area. One historic borehole has been identified as relevant as it is located on-site and is summarised in Table 4-3 below. A copy of the exploratory hole record is included in Annex E. There are no other available historical borehole records within the 250m study area.

Table 4-3: Summary of BGS Historical Borehole Records

BGS Reference/ Name (date)	Location	Strata/ Description	Depths	Water Level (m bgl)
TF22NE73/ Spalding Marsh Dated 1937 - 1938	Located on-site (northern area) Grid reference - 528000, 327200	Inland water survey – records of well measurements. No geology recorded.	3m	1.68m in Oct 1937. 0.56m in March 1938

4.3.3. The Site is dominated by Tidal Flat Deposits, overlying potential Glacial Deposits (Till) and the Oxford Clay Formation bedrock (as indicated in Table 4-2). Historical groundwater levels have been recorded at 0.56m bgl and 1.68m bgl, however

these records are from 1937 – 1938 and therefore will have minimal present-day relevance.

Mining and Ground Workings

4.3.4. No ground workings were identified on-site. A total of four surface ground workings were identified within 250m of the Site. The ground workings include three ponds (located between 95m and 140m west / southwest of the Site) and one unspecified ground working (220m west of the Site).

4.3.5. The Groundsure Report does not record any BritPits, underground workings, underground mining extents or historical mineral planning areas, gypsum areas, brine areas, coal mining areas, or non-coal mining areas on-site or within 250m.

4.4. Hydrogeology

4.4.1. As detailed in Section 2.1, the hydrogeological study area of 1km from the boundary of the Site has been adopted in this section to determine the risk to these receptors from potential contaminated land.

Aquifer Classification & Groundwater Vulnerability

4.4.2. The Groundsure Report indicates that the Tidal Flat Deposits and Oxford Clay Formation bedrock are designated as Unproductive aquifers. Glacial Deposits (Till) (potentially present underlying the Tidal Flat Deposits) is typically classified as a Secondary (undifferentiated) aquifer[5].

Licensed Groundwater Abstractions

4.4.3. According to the Groundsure Report and correspondence with the Environment Agency, no licensed groundwater abstractions or PWS have been identified within 1km of the Site.

Source Protection Zones

4.4.4. Source Protection Zones (SPZs) are used to protect areas of vulnerable groundwater that is used for abstraction and where water quality is of high importance (such as drinking water abstractions). SPZs are categorised into three

[5] According to the Environment Agency, Secondary undifferentiated aquifers are geological formations where it is not possible to classify the rock type into either a Secondary A or B definition due to their variable characteristics of the rock type. These have only a minor value.

zones, 1-3, with 1 being of highest risk of contamination, and 3 representing the lowest risk but still within the groundwater catchment.

4.4.5. According to the Groundsure Report, there are no SPZs recorded within 1km of the Site.

Risk of Flooding from Groundwater

4.4.6. The Groundsure Report indicates that the Site is at Negligible risk of groundwater flooding.

5. Regulatory Information and Consultation

5.1. Introduction

5.1.1. The key relevant features that characterise the Site and surrounding area are summarised in this section, along with an indication of the risk to the land quality of the Site. Generally, any regulated activities within 250m of the Site could, depending upon their nature, represent potential off-site sources of contamination. Furthermore, designated sites which could act as receptors were identified.

5.2. Regulatory Database Review

5.2.1. Table 5-1 summarises information obtained from the regulatory database information contained in the Groundsure Report (Annex D). All data suppliers are referenced in the Groundsure Report.

5.2.2. Regulatory information is excluded from the table below where it is not within the specified distances, where there is no information for the given topic or where entries are duplicated.

5.2.3. There were no instances of the following data (within 250m of the Site) identified within the information sources reviewed, which could act as potential sources of contamination:

- Active or recent landfills;
- Historical landfills (BGS records, Local Authority records, Environment Agency records);
- Historical waste sites;
- Licensed waste sites;
- Current or recent petrol station, electrical cables or gas pipelines;
- Historical energy features, petrol stations, garages or military land;
- Sites determined as Contaminated Land;
- Control of Major Accident Hazards (COMAH);
- Regulated explosive sites;
- Hazardous substance storage/usage;
- Historical licensed industrial activities (Integrated Pollution Control (IPC));

- Licensed industrial activities (Part A(1));
- Licensed pollutant release (Part A(2)/B);
- Radioactive substance authorisations;
- Licensed discharges to controlled waters
- Pollutant release to surface waters (Red List);
- Pollutant release to public sewer;
- List 1 dangerous substances;
- List 2 dangerous substances;
- Pollution incidents (Environment Agency records);
- Pollution inventory substances;
- Pollution inventory waste transfers; and
- Pollution inventory radioactive waste.

5.2.4. Furthermore, there were no instances of designated sites listed below, which could act as potential receptors, within the 250m study area:

- Sites of Specific Scientific Interest (SSSI);
- Conserved wetland sites (Ramsar sites);
- Special Areas of Conservation (SAC);
- Special Protection Areas (SPA);
- National Nature Reserves (NNR);
- Local Nature Reserves (LNR);
- Biosphere Reserves;
- Forest Park Marine Conservation Zone;
- Green Belt; and
- Nitrate Sensitive Areas.

Table 5-1: Summary of Regulatory Information

Subject	Number present		Details
	On site	0 – 250m	
Licensed Waste Management Facilities			
Waste exemptions	0	1	A waste exemption is located approximately 160m north of the Site at Wragg Marsh Farm. The exemption is for 'burning waste in the open'.
Industrial Land Uses			
Recent industrial land uses	0	4	There are four current industrial uses located approximately 55 – 205m of the Site, including: • Foodstuffs (Wykeham Farm – animal feeds, pet foods, hay and straw), 55 m south-west; • Industrial features (water pumping station), 115m south-west; • Farming (hoppers and silos), 145m north; and • Farming (Kinder Garden Plants (Sunnyfield Nurseries) – fruit, flower and vegetable growers), 205m north.
Past Land Uses			
Historical industrial land uses, including tanks	0	4	The historical land uses include: • Two nurseries to the north (in the area of the current Sunnyfield Nurseries); • An unspecified tank (140m north in the area of the current Sunnyfield Nurseries); and • Unspecified ground workings dating between 1950 – 1989 (220m west, as also indicated in paragraph 4.3.4 of this report).
Sensitive Land Uses			
Listed buildings	0	3	There are three listed buildings 75m, 100m and 175m south-west of the Site associated with the aforementioned Wykeham Chapel of St Nicholas (Grade I).
Scheduled ancient monuments	0	1	One ancient monument, The Wykeham Chapel is located 5m south-west of the Site. It is identified as a moated monastic grange and retreat house.

5.3. Regulatory Consultation

Third-Party Consultation

5.3.1. The Environment Agency were consulted, with their response having been included within the relevant sections of the report.

Planning Information

5.3.2. The South Holland District Council web-based planning portal[6] was reviewed to identify whether there are existing planning conditions which relate to the Site. There are a number of planning applications within Wykeham which were along Marsh Road and farms adjacent to the Site including Shepherds Farm, Stone Gate, however these are off-site (within the 250m study area). These include extensions to existing dwellings and small-scale construction projects in relation to agricultural and commercial activities, namely extensions, garages and outbuildings.

5.3.3. There are two DCO schemes promoted by National Grid Energy Transmissions (NGET) which have overlapping Order Limits with the Site:

- Grimsby to Walpole DCO (which will deliver the Weston Marsh B substation that the Grid Connection of the Scheme will connect into); and
- Weston Marsh to East Leicestershire scheme (another 400kV overhead line, which will also connect into the Weston Marsh B substation).

5.3.4. These schemes are at pre-application stages and are yet to be consented.

Unexploded Ordnance

5.3.5. To assess the potential risks from Unexploded Ordnance (UXO) at the site, the Zetica Unexploded Bomb Risk Map[7] was reviewed in March 2026. The Zetica Bomb Risk Map for the site and surrounding area indicated that it is a Low-risk area, which is defined by Zetica as an '*area indicated as having 15 bombs per 1000 acres or less*'.

[6] South Holland District Council Planning Application Portal [online]. Available at: https://planning.sholland.gov.uk/OcellaWeb/planningSearch [Accessed February 2026]
[7] Risk Maps | Zetica UXO

Radon

5.3.6. The Groundsure Report indicates that the Site is not within a radon affected area. The Groundsure Report and UK Health Security Agency's UK Radon Website[8] states that the Site is identified as having less than 1% of properties above the UK 'Action Level'. This classification indicates that no specific radon protective measures are likely to be considered necessary for the construction of the Scheme, albeit no buildings are proposed within this area of the Scheme.

Mining Remediation Authority and Preliminary Mine Gas Risks

5.3.7. The Mining Remediation Authority (MRA) web based interactive map[9] was reviewed which indicates that the Site is not located within the MRA Coal Mining Reporting Area. This indicates that risks from historical coal mining are low, and therefore no further assessment is required.

[8] UK Health Security Agency, 2022. UK maps of radon [online]. Available at https://www.ukradon.org/information/ukmaps [Accessed February 2026]
[9] Mining Remediation Authority (2023). Minging Remediation Interactive Annexes Authority Map Viewer. Available at: Mining Remediation Authority Map Viewer [Accessed February 2026]

6. Conceptual Site Model and Risk Assessment

6.1. Introduction

6.1.1. The preliminary CSM has been developed to identify potentially complete contaminant linkages that may require further investigation to assess their existence and potential significance. The potential sources of contamination on or in the vicinity of the Site, receptors on or near the Site, and pathways on or near the Site are discussed within the following sub-sections.

6.1.2. A summary of the applicable legislative and planning framework, and the approach to assessment used in the following sections is presented in Annex B.

6.2. Sources of Potential Contamination

6.2.1. Based on the Site setting, history and land-uses described in preceding sections, sources of contamination and contaminants of potential concern (CoPC) listed in Table 6-1 have been identified.

6.2.2. The CoPC are based on information provided in the Department of Environment Industry Profiles, known contamination identified at the Site and from industry experience.

Table 6-1: Potential Sources of Contamination

Source	Description	CoPC
Agricultural land (on-site and off-site) and farms (off-site)	*On-site and within 250m:* The Site and its surroundings are occupied by various types of agricultural land. Marsh House Farm, Shepherds Farm and Wykeham Farm are located adjacent to the Site. Barn at Marsh House Farm yard was observed to potentially contain ACM.	Potential for a range of organic and inorganic contaminants including, but not limited to, metals, fuels, lubricating oils, solvents, ammonia, elevated biochemical oxygen demand (BOD), elevated chemical oxygen demand (COD), pesticides and herbicides, asbestos, ACM and pathogens.
Tanks (off-site)	*Adjacent:* Tanks observed during the Site walkover to south of barn in	Contents of all observed tanks is unknown. The two pale colour tanks are likely to be propane, hence not a CoPC, likewise it is noted that other tanks (especially

Source	Description	CoPC
	Marsh House Farm yard (unknown contents). Further tank on north side of barn at Marsh House Farm yard visible on online mapping (unknown contents). Tanks (unspecified contents) identified within the footprint of the plant nursery (approx. *135m north west*.	some in the nursery) could be water. However other tanks may contain fuels, such as heating or diesel oil, solvents / cleaning agents, or fertilizer / pesticides.
Historical ponds and ground workings (potentially infilled) (on-site and off-site) Fly tipping (on-site and off-site)	*On-site and between 95m and 220m west and southwest:* Historical small ponds and ground workings which may have been infilled with potentially unlicensed waste materials. *On-site and within 250m:* Fly tipping in the ditch parallel to the road and off-site as identified in Table 2-2 . Waste includes metal, planks, wood, car tyre and plastic.	Potential for a range of inorganic and organic contaminants including but not limited to heavy metals, acids, organic compounds, inorganic compounds, asbestos, total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAH), volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), asbestos and ACM. Ground gases (such as methane or carbon dioxide) and leachate.

Ground Gas Sources

6.2.3. The identified sources of ground gas within Section 6.2 have been further characterised in Table 6-2 using BS 8576:2013 *"Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOCs)"* – Figure 6, to determine the ground gas generation potential of the sources.

Table 6-2: Potential Sources of Ground Gas

Source	BS 8576 Ground Gas Generation Potential	Justification
Natural ground	Very Low	The natural ground at the Site is likely to be Tidal Flat Deposits and Glacial Deposits which BS8576 indicates are likely to have a low

Source	BS 8576 Ground Gas Generation Potential	Justification
		degradable organic content and a very low gas generation potential.
Infilled waterbodies	Very Low	Various ponds were identified as part of the historical map review, which could potentially be infilled. Some of these ponds have been mapped as "surface ground workings" on the Groundsure Report. These waterbodies are relatively small in size therefore, they are considered unlikely to be a significant source of ground gas generation.

6.3. Potential Receptors

6.3.1. Potential receptors associated with the Site are shown in Table 6-3.

Table 6-3: Potential Receptors

Receptor	Description	Justification
Human health	Construction and maintenance workers	The construction workers and the maintenance workers involved in the Scheme.
	On-site users – current and future	Current and future agricultural land users and trespassers.
	Adjacent and nearby residential users	Residents at farms and other houses.
	Adjacent and nearby commercial and agricultural users	Workers in the adjacent agricultural land, farms and Wykeham Chapel users.
Controlled waters	Secondary undifferentiated aquifer	Glacial deposits (Till) (if present) are typically classified as a Secondary undifferentiated aquifer.
	Surface waters	Drainage ditches on-site including Wykeham Drain, Wheat Mere Drain, Lord's Drain and other unnamed drainage ditches.
Built environment	On-site future infrastructure	Future proposed infrastructure including underground cabling or foundations for pylons and access road.

Receptor	Description	Justification
	Buildings & infrastructure with enclosed spaces	Off-site residential and commercial properties.
	Services	Services used to serve the on-site and surrounding land use, this includes services for residential and commercial properties and potential proposed underground cables.

6.4. Potential Pathways

6.4.1. Potential pathways associated with the Scheme are shown in Table 6-4.

Table 6-4: Potential Pathways

Pathway Group	Pathway
Human health	Ingestion of soil and dust
	Inhalation of dust - indoor and outdoor
	Dermal contact - indoor and outdoor
	Vapour intrusion and inhalation – indoors and outdoors
	Gas ingress – inhalation – indoors and outdoors
	Gas ingress – explosive environment
Controlled waters	Leaching and vertical migration through unsaturated zone
	Lateral migration in groundwater
	Vertical migration in groundwater
	Direct run-off
	Baseflow from groundwater to surface water
	Migration via preferential pathways (services trenches etc)
Built environment	Direct contact of services and supply pipes with contaminated soils
	Gas intrusion – migration of hazardous gases/vapours via permeable strata into enclosed spaces and service/utility trenches (explosion)

6.5. Discounted Sources/ Pathways/ Receptors

6.5.1. The following sources, pathways and receptors are discounted from the CSM with the justification presented in Table 6-5.

Table 6-5: Discounted Sources / Pathways / Receptors

Group	Discounted Item	Justification
Source	Water pumping station (off-site, 115m south-west)	Very limited potential for contamination and low potential risk from this source given the distance from the Site.
Pathways	On-Site: Inhalation of dust (indoor) Dermal contact (indoor) Vapour intrusion and inhalation (indoor) Gas ingress – inhalation (indoor) Gas intrusion – explosion.	No new enclosed spaces are anticipated as part of the proposed development on-site.
Receptors	Sensitive Land Uses	There are no SSSI, Ramsar, SAC, SPA, LNR, World Heritage Sites and National Parks within 250m of the Site.
	Tidal Flat Deposits	The Tidal Flat Deposits are classified as an Unproductive aquifer. Unproductive strata are considered very low sensitivity.
	Oxford Clay Formation	The Oxford Clay Formation is classified as an Unproductive aquifer. Unproductive strata are considered very low sensitivity.

6.6. Preliminary Risk Assessment

6.6.1. The approach to the preliminary risk assessment (PRA) adopted within this report follows the guidance outlined in CIRIA C552[10] and is described in further detail in Annex B.

6.6.2. The qualitative preliminary risk assessment of the possible linkages of the above sources, exposure and transport pathways and receptors is provided in Table 6-6.

10 CIRIA, Contaminated land risk assessment. A guide to good practice (C552), January 2001.

Table 6-6: Summary of Preliminary CSM and Risk Assessment

Source	Receptors		Exposure Pathway	Probability	Consequence	Risk Category	Justification
On-Site Contamination sources: Agricultural landuses, fly-tipping and, potentially infilled ponds.	Human health – On-site	Construction and maintenance workers; Agricultural land users; and Trespassers	Inhalation of contaminants in soil-derived dust and asbestos fibres.	Unlikely	Medium	**Low Risk**	The risk to construction workers during the site preparation and construction and decommissioning phases, and to future maintenance workers in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified. It is likely that the risks to construction and maintenance workers can be effectively managed through good health and safety practices and protocols. The risk to on-site agricultural land users and trespassers is low due to the limited sources of contamination identified. Furthermore, the receptors will be visiting the Site for a limited
			Ingestion of soil and dust	Unlikely	Medium	**Low Risk**	
			Dermal contact – outdoor	Unlikely	Medium	**Low Risk**	
			Vapour intrusion and inhalation – outdoor	Unlikely	Medium[11]	**Low Risk**	
			Gas ingress – inhalation	Unlikely	Medium[11]	**Low Risk**	

11 Source severity has been downgraded to 'Medium' as ground gas sources identified have a 'Very Low or 'Low' ground gas generation potential and vapour sources are considered to be limited in potential concentration and extent. Therefore, ground gas sources are unlikely to generate significant concentrations capable of meeting the 'Severe' severity rating as defined in CIRIA C552.

Source	Receptors		Exposure Pathway	Probability	Consequence	Risk Category	Justification
	Human health – Off-site	Adjacent site users during earthworks: Residential and commercial properties adjacent / in proximity to the Site	Inhalation of dust - indoor and outdoor	Unlikely	Medium	**Low Risk**	time and there will be no enclosed spaces at the Site. On-site gas source generation potential has been identified as very low (Table 6-2) and the potential for significant migration off-site is unlikely based on the limited earthworks anticipated as part of the Scheme. Adoption of appropriate dust suppression techniques would also mitigate the degree of potential particulate migration off-site; these have been included within the **Outline Construction Environmental Management Plan (OCEMP)** (Doc Ref. 7.10), **Outline Operational Environmental Management Plan (OOEMP)** (Doc Ref. 7.11) and **Outline Decommissioning Environmental Management Plan** (Doc Ref. 7.12), submitted with the DCO Application.
			Vapour intrusion and inhalation – indoors and outdoors	Unlikely	Medium	**Low Risk**	
			Gas ingress – explosive atmosphere	Unlikely	Medium	**Low Risk**	
			Gas ingress – inhalation	Unlikely	Medium	**Low Risk**	

Source	Receptors		Exposure Pathway	Probability	Consequence	Risk Category	Justification
	Controlled waters	Surface waters	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Low	Mild	**Low Risk**	The Site includes and is bounded by multiple drainage ditches and drains. Some of these ditches were observed to have standing water with no obvious flow. Only limited potential sources of contamination have been identified across much of the Site from historical and current uses. Contaminant linkages may be present but the circumstances under which harm would occur even in the long-term are improbable, given the proposed use of the Site. The risk of harm to surface waters from lateral migration in groundwater and baseflow into surface waters is considered low. The risk of harm from spillage/loss/run-off from surface direct to receiving water
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Low	Mild	**Low Risk**	

Source	Receptors		Exposure Pathway	Probability	Consequence	Risk Category	Justification
		Secondary undifferentiated aquifer	Leaching of contaminants in the unsaturated zone to groundwater in underlying aquifers.	Unlikely	Medium	**Low Risk**	is also low. However, this could be increased if excavations and stockpiling is undertaken near to surface water. Mitigation to reduce risk from stockpiles during excavation have been included within the **Outline Construction Environmental Management Plan (OCEMP)** (Doc Ref. 7.10), **Outline Operational Environmental Management Plan (OOEMP)** (Doc Ref. 7.11) and **Outline Decommissioning Environmental Management Plan** (Doc Ref. 7.12), submitted with the DCO Application. The mitigation measures set out within the **OCEMP** (Doc Ref. 7.10), **OOEMP** (Doc Ref. 7.11)

Source	Receptors		Exposure Pathway	Probability	Consequence	Risk Category	Justification
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low Risk**	and **ODEMP** (Doc Ref. 7.12), submitted with the DCO Application provide protection for controlled waters during the construction, maintenance and decommissioning works. It is unlikely that contamination associated with historical and current uses of the Site would have a significant impact on the underlying Secondary undifferentiated aquifer associated with the Glacial Deposits (if present), particularly due to the presence of the relatively impermeable overlying Tidal Flat Deposits (unproductive strata).
	The built environment	On-site Underground cabling, foundations for pylons and access road; and Services	Direct contact of services and supply pipes with contaminated soils	Low	Minor	**Very Low Risk**	The potential risk to underground cabling, services and foundations from contaminants in soils / groundwater has been assessed as very low based on the identified historical and current

Source	Receptors		Exposure Pathway	Probability	Consequence	Risk Category	Justification
		Structures with enclosed spaces including residential and commercial (off-site)	Gas intrusion – migration	Unlikely	Mild	**Very Low Risk**	potential contaminative land uses. It is unlikely that significant migration of contamination towards the enclosed buildings off-site will occur based on the low permeability of the underlying strata and limited contamination sources identified on-site. The potential for ground gas generation is likely to be very low.
Off-Site Contamination sources: agricultural land, farms including tanks (unknown contents), fly-tipping and potentially infilled ponds and ground workings.	Human health – On-site	Construction and maintenance workers; Agricultural land users and trespassers	Inhalation of contaminants in soil-derived dust and asbestos fibres.	Unlikely	Medium	**Low Risk**	No potentially significant sources of contamination or ground gas sources have been identified within the surrounding areas which are considered likely to have a significant impact on receptors at the Site. The risks to construction and maintenance workers can be effectively managed through good health and safety practices and protocols as set out within the **OCEMP** (Doc Ref. 7.10), **OOEMP** (Doc Ref. 7.11) and **ODEMP** (Doc Ref. 7.12),
			Ingestion of soil and dust	Unlikely	Medium	**Low Risk**	
			Dermal contact – outdoor	Unlikely	Medium	**Low Risk**	
			Vapour intrusion and inhalation – outdoor	Unlikely	Medium	**Low Risk**	
			Gas ingress – inhalation	Unlikely	Medium	**Low Risk**	

Source	Receptors		Exposure Pathway	Probability	Consequence	Risk Category	Justification
							submitted with the DCO Application Agricultural site users and trespassers will be visiting the Site for a limited time and there are no enclosed spaces at the Site, therefore, the impact probability is considered unlikely.
	Controlled waters	Surface waters	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Low	Mild	**Low Risk**	Whilst no potentially significant contaminating land uses have been identified in the surrounding area, if contamination is present, there is the potential this could migrate into the on-site surface water bodies. It is unlikely that contamination associated with the off-site sources would have a significant impact on the underlying Secondary undifferentiated aquifer associated with the Glacial Deposits (if present) at the Site.
			Discharge of contaminants entrained in surface water run-off followed by overland flow and discharge.	Low	Mild	**Low Risk**	
		Secondary undifferentiated aquifer	Leaching of contaminants in the unsaturated zone to groundwater in underlying aquifers.	Unlikely	Medium	**Low Risk**	

Source	Receptors		Exposure Pathway	Probability	Consequence	Risk Category	Justification
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	**Low Risk**	
	The built environment	On-site Underground cabling, foundations for pylons and access road; and Services	Direct contact of services and supply pipes with contaminated soils	Unlikely	Mild	**Very Low Risk**	The potential risk to underground services and concrete from off-site contaminants in soils / groundwater has been assessed as very low based on the identified off-site historical and current potential contaminative land uses.

7. Conclusions and Recommendations

7.1. Conclusions

7.1.1. A limited number of potential sources of contamination have been identified within the Site boundary relating to the existing and historical use of the Site as mostly agricultural land with occasional potentially infilled ponds.

7.1.2. A limited number of potentially contaminating land uses have been identified in the surrounding area such as agricultural land and farms, tanks (current and historical) within Marsh Farm yard and the plant nursery, potential ACM within neighbouring structures, potentially infilled ponds and ground workings, and fly-tipped waste.

7.1.3. A lack of historical reports means there is limited information currently available for the Site. No laboratory data is available for the Site. Therefore, the PRA undertaken is based on the available desk study information.

7.1.4. Contamination could pose potential risks to human health should contamination be present, in particular construction and maintenance workers and agricultural users. These receptors will be visiting the Site for a limited time and there are no enclosed spaces at the Site, reducing the potential for human health impacts. The risks to construction and maintenance workers can be effectively managed through good health and safety practices and protocols.

7.1.5. The potential for contaminants to impact groundwater below the Site or migrate in groundwater towards the Site from the current and past activities identified in surrounding areas is very low based on the largely cohesive ground conditions identified and assigned as Unproductive strata (Tidal Flat Deposits and the Oxford Clay Formation) and Secondary undifferentiated aquifer (Glacial Deposits, if present). However, there is a potential for contamination to impact drainage ditches which are located both on and off-site, including from run-off should excavations and stockpiling be undertaken near to surface water features.

7.1.6. Based on the available desk study information, the Site is classified overall as having a Low risk (based on the highest risk classification identified) with respect to contaminated land, driven by potential risks to construction and maintenance workers and the surface water environment.

7.1.7. Appropriate measures for minimising risks to human receptors and controlled waters have been set out within the **OCEMP** (Doc Ref. 7.10), **OOEMP** (Doc Ref. 7.11) and **ODEMP** (Doc Ref. 7.12), submitted with the DCO Application.

7.2. Recommendations

7.2.1. As set out within the **OCEMP** (Doc Ref. 7.10), submitted with the DCO Application, a geo-environmental ground investigation should be designed with due consideration of the requirements of BS10175: 2026[12] to support the development design (including earthworks and foundation design) and to confirm potential risks associated with / mitigation requirements of potential contamination sources.

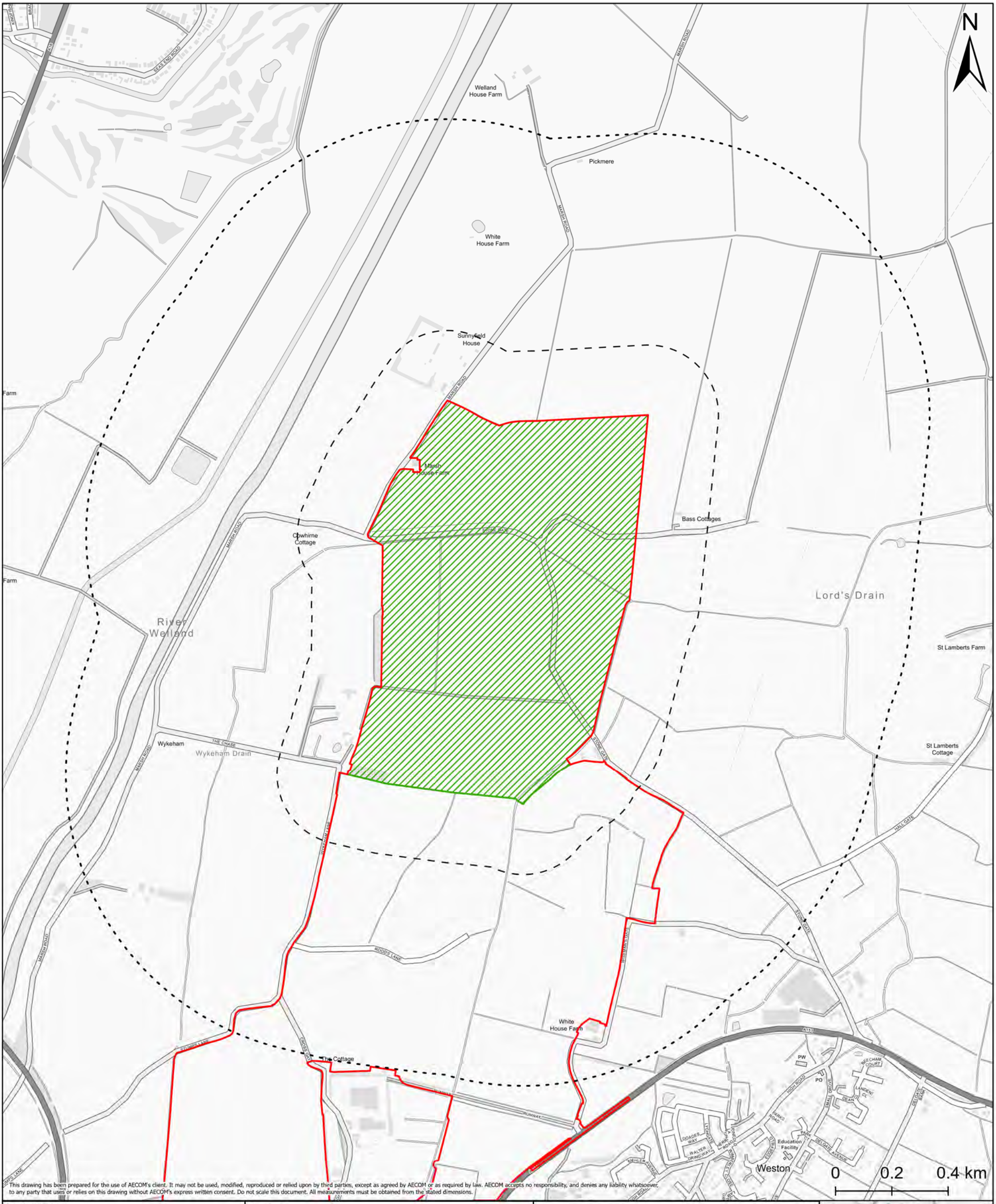
7.2.2. It is recommended that the ground investigation includes the following:

- Characterisation of the ground conditions to ascertain more certainty in contaminated land assessment;
- Sampling and analysis of soil, groundwater and leachate to confirm the presence / absence of contaminants;
- Groundwater monitoring to confirm the presence / absence of contamination; and
- Preparation of a quantitative assessment of risks to human health, controlled waters and the built environment.

7.2.3. It is recommended that the ground investigation be designed in accordance with the UK Specification for Ground Investigation (version 3)[13].

[12] British Standards Institution (2026) BS 10175:2026 Investigation of potentially contaminated sites – Code of practice. London: BSI. Available at: https://doi.org/10.3403/30473646 [Accessed February 2026]
13 Institute of Civil Engineers (ICE) third edition UK Specification for Ground Investigation (May 2022)

Annex A: Figures



Project Title

Meridian Solar Farm

Map Title

Environmental Statement
Appendix 5-5
Figure 1: Contaminated Land Assessment for Grid Connection Extension

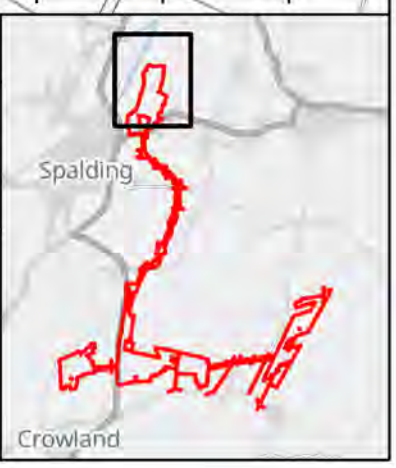
Scale	Version	Drawn	Reviewed
1:12,000	0	LL	AK

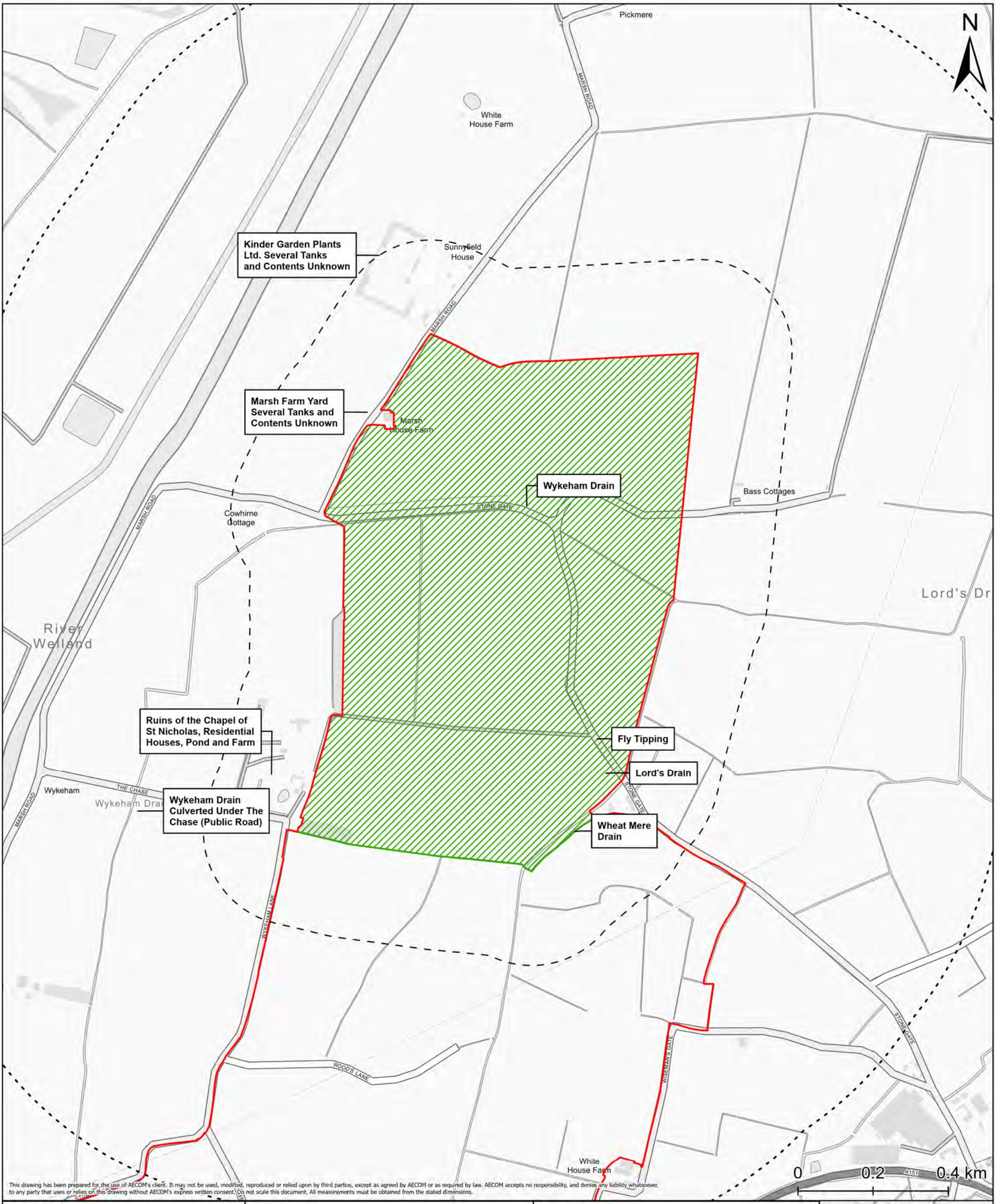
Legend

- Order Limits
- Grid Connection Route Extension
- 250m Study Area for Geology and Contaminated Land
- 1km Study Area for Hydrogeology

Date: 20/03/2026

Meridian Solar





Project Title

Meridian Solar Farm

Map Title

Environmental Statement
Appendix 5-5
Figure 2: Areas of Search

Scale	Version	Drawn	Reviewed
1:9,000	0	LL	AK

Legend

- Order Limits
- Grid Connection Route Extension
- 250m Study Area for Geology and Contaminated Land
- 1km Study Area for Hydrogeology

Date: 20/03/2026

Meridian Solar

8. Annex B Approach to Reporting

B.1 Legislative Context and Guidance

8.1.1. This report considers the contents of the National Policy Statement (NPS) EN-1[14], NPS EN-3[15], NPS EN-5[16], the National Planning Policy Framework (2012, updated in February 2025)[17] and considers the potential implications of Part 2A of the Environmental Protection Act 1990 (Part 2A)[18] and the associated Contaminated Land (England) Regulations 2006[19] and Contaminated Land Statutory Guidance (2012)[20].

8.1.2. This report has been prepared in general accordance with the technical guidance and procedures described in the UK Government guidance Land Contamination: Risk Management (LCRM) (2019, last updated in June 2025)[21], British Standard (BS) 5930:2015 (as amended) Code of Practice for Site Investigations (BSI)[22], BS:EN 1997 Eurocode 7 – Geotechnical Design (BSI)[23] and BS 10175:2026 Investigation of Potentially Contaminated Sites – Code of Practice (BSI)[12].

B.2 Historical Map Review

8.1.3. Only indicative map scales are available for the Site as part of the Groundsure Report (Annex D). Where dates are stated, these refer to the dates of maps on which the features are present, have changed use or are no longer annotated, and do not necessarily refer to the exact dates of existence of a particular

14 Department for Energy Security & Net Zero, Overarching NPS for energy (EN-1) (2025). Available at: https://assets.publishing.service.gov.uk/media/695d1015f41883f4e50ed9ab/overarching-national-policy-statement-for-energy-en-1-web-accessible.pdf [Accessed February 2026]

[15] Department for Energy Security & Net Zero, NPS for Renewable Energy Infrastructure (EN-3) (2025). Available at: https://assets.publishing.service.gov.uk/media/695d1368b5c46330350ed9a2/national-policy-statement-for-renewable-energy-infrastructure-en-3-web-accessible.pdf [Accessed February 2026]

[16] Department for Energy Security & Net Zero, NPS for Electricity Networks Infrastructure (EN-5) (2025). Available at: https://assets.publishing.service.gov.uk/media/695d12e1b5c46330350ed9a1/national-policy-statement-for-electricity-networks-infrastructure-en-5-web-accessible.pdf [Accessed February 2026]

[17] Ministry of Housing, Communities and Local Government, National Planning Policy Framework (2012, updated February 2025). Available at: https://assets.publishing.service.gov.uk/media/67aafe8f3b41f783cca46251/NPPF_December_2024.pdf [Accessed February 2026]

[18] Environmental Protection Act 1990. Available at: https://www.legislation.gov.uk/ukpga/1990/43/part/IIA [Accessed February 2026]

[19] The Contaminated Land (England) Regulations 2006. Available at: https://www.legislation.gov.uk/uksi/2006/1380/contents [Accessed February 2026]

[20] Department for Environment, Food and Rural Affairs (DEFRA), Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance (2012). Available at: https://assets.publishing.service.gov.uk/media/5a757dfa40f0b6360e47489d/pb13735cont-land-guidance.pdf [Accessed February 2026]

[21] Environment Agency, Land contamination risk management (LCRM) (2020, updated 2025). Available at: https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm [Accessed February 2026]

[22] British Standards Institution (2020). BS 5930:2015+A1:2020 Code of practice for ground investigations.

[23] British Standards Institution (1997). BS:EN 1997 Eurocode 7 – Geotechnical Design.

feature. Development that may have occurred between map editions is recorded as occurring on the latter published map, hence there are some limitations to the accuracy to the date of development unless supplementary evidence is available.

B.3 Conceptual Site Model Derivation

8.1.4. The CSM is aimed at identifying possible risks, if any, arising from substances used or deposited on-site, or from other sources of land contamination. Both past and current potentially contaminative land uses have been considered. It is based on the Scheme description included in **Section 1** of this report.

Assessment Framework

8.1.5. The Site, in terms of potential land contamination, will be regulated by the Local Authority, taking account of the National Planning Policy Framework (2012, updated in February 2025)[17], with the Environment Agency, Natural England and Historic England acting as potential statutory consultees.

8.1.6. Environmental liabilities can arise through provisions contained within statutory legislation including Part 2A[18], the Water Resources Act 1991[24] and the Water Act 2003[25].

8.1.7. Current best practice recommends that the determination of health hazards due to contaminated land is based on the principle of risk assessment, as outlined in the Statutory Guidance to Part 2A (2012)[20] and LCRM[21].

8.1.8. The "suitable for use" approach is adopted (as outlined in the Contaminated Land Statutory Guidance) for the assessment of contaminated land where remedial measures are undertaken where unacceptable risks to human health or the environment are realised taking into account the use (or proposed use) of the land in question and the environmental setting.

8.1.9. The risk assessment process for environmental contaminants is based on a source-pathway-receptor analysis. These terms can be defined as follows:

- **Source:** hazardous substance that has the potential to cause adverse impacts;
- **Pathway:** route whereby a hazardous substance may come into contact with the receptor: examples include ingestion of contaminated soil and leaching of contaminants from soil into watercourses; and

[24] Water Resources Act 1991. Available at: https://www.legislation.gov.uk/ukpga/1991/57/contents [Accessed February 2026]
[25] Water Act 2003. Available at: https://www.legislation.gov.uk/ukpga/2003/37/contents [Accessed February 2026]

- **Receptor:** target that may be affected by contamination: examples include human occupants/ users of site, water resources (surface waters or groundwater), or structures.

8.1.10. For a risk to be present, there must be a relevant / viable contaminant linkage; i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway.

8.1.11. The potential sources, pathways and receptors have been determined to assess potential risks/ liabilities and constraints associated with the Site in its current condition prior to the construction of the Scheme. Risks associated with the Scheme have also been assessed based on the future land use scenario specified, including any potential sources of contamination, potential receptors and potential contaminant pathways identified during this desk-based assessment.

B.4 Approach to Risk Assessment

8.1.12. Current best practice recommends that the determination of hazards due to contaminated land is based on the principle of risk assessment, as outlined in the Environment Agency guidance on LCRM[21].

8.1.13. For a risk to be present, there must be a viable contaminant linkage; i.e. a mechanism whereby a source impacts on a sensitive receptor via a pathway.

8.1.14. Assessments of risks associated with each of these contaminant linkages are discussed in the following sections.

8.1.15. Using criteria broadly based on those presented in the CIRIA C552[10], the magnitude of the risk associated with potential contamination at the Site has been assessed. To do this an estimate is made of:

- The magnitude of the potential consequence (i.e. severity);
- The magnitude of probability (i.e. likelihood).

8.1.16. The severity of the risk is classified according to the criteria in Table 8-1.

Table 8-1: Description of Severity of Risk

Severity	Definition	Examples (as defined by C552)
Severe	Short-term (acute) risk to human health likely to result in "significant harm" as defined by Environmental Protection Act 1990, Part IIA. Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Catastrophic damage to buildings \ property. A short-term risk to a particular ecosystem, or organism	• High concentrations of cyanide on the surface of an informal recreation area. • Major spillage of contaminants from site into controlled water. • Explosion, causing building collapse (can also equate to a

Severity	Definition	Examples (as defined by C552)
	forming part of such ecosystem (note: the definitions of ecological systems Within the Draft Circular on Contaminated Land, DETR, 2000).	short-term human health risk if buildings are occupied).
Medium	Chronic damage to Human Health ("significant harm" as defined in DETR 2000). Pollution of sensitive water resources (note: Water Resources Act contains no for considering significance of pollution). A significant change in a particular ecosystem, or organism forming part of such ecosystem. (note: the definitions of ecological systems within Draft Circular on Contaminated Land, DETR, 2000).	• Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria. • Leaching of contaminants from a site to a major or minor aquifer. • Death of a species within a designated nature reserve.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ("significant harm" as defined in the Draft Circular on Contaminated Land, DETR, 2000). Damage to sensitive buildings / structures / services or the environment.	• Pollution of non-classified groundwater. • Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.	• The presence of contaminants at such concentrations that protective equipment is required during site works. • The loss of plants in a landscaping scheme. • Discoloration of concrete.

8.1.17. The probability of the risk occurring is classified according to the criteria in Table 8-2.

Table 8-2: Likelihood of Risk Occurrence

Likelihood	Definition	Example
High	There is a pollutant linkage and an event that either appears very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.	• The contaminant linkage exists or is very likely to exist in the short term, and / or may also be linked to visual / olfactory evidence of that linkage being present and active in some cases. • The conditions are such that there is no foreseeable reason to suggest that a source-pathway-receptor linkage is not

Likelihood	Definition	Example
		occurring and required mediums for a contamination source to pass through / within to reach a receptor are all present.
Likely	There is pollutant linkage, and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.	• The conditions are such that there are very few foreseeable reasons to suggest that a source-pathway-receptor linkage is not occurring, and that all or most of the required mediums for a contamination source to pass through / within to each a receptor are present.
Low Likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.	• The source, pathway and receptor linkage may exist and it is possible that contamination could reach a receptor in certain circumstances. The site conditions indicate that there are limiting factors in the pathway mediums / generation potential of the source / or presence of the receptor.
Unlikely	There is pollutant linkage, but circumstances are such that it is improbable that an event would occur even in the very long-term.	• The source, pathway and receptor may exist in certain circumstances, but the contaminant linkage is improbable in the short term and in the long term.

8.1.18. An overall evaluation of the level of risk is gained from a comparison of the severity and probability, as shown in Table 8-3.

Table 8-3: Risk based on Comparison of Likelihood and Severity

		Severity			
		SEVERE	**MEDIUM**	**MILD**	**MINOR**
Likelihood	**HIGH**	Very High	High	Moderate	Moderate/Low
	LIKELY	High	Moderate	Moderate/Low	Low
	LOW	Moderate	Moderate/Low	Low	Very Low
	UNLIKELY	Moderate/Low	Low	Very Low	Very Low

8.1.19. Further description of the classified risks as defined by CIRIA C552 is provided below.

Very high risk

8.1.20. There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.

High risk

8.1.21. Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/or occupier. Investigation is required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short-term and are likely over the longer term.

Moderate risk

8.1.22. It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.

Low risk

8.1.23. It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/or occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.

Very low risk

8.1.24. It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.

Discussion of Acute Risk to Construction Workers

8.1.25. The Scheme works will be undertaken in compliance with Construction Design and Management (CDM) 2015 regulations[26].

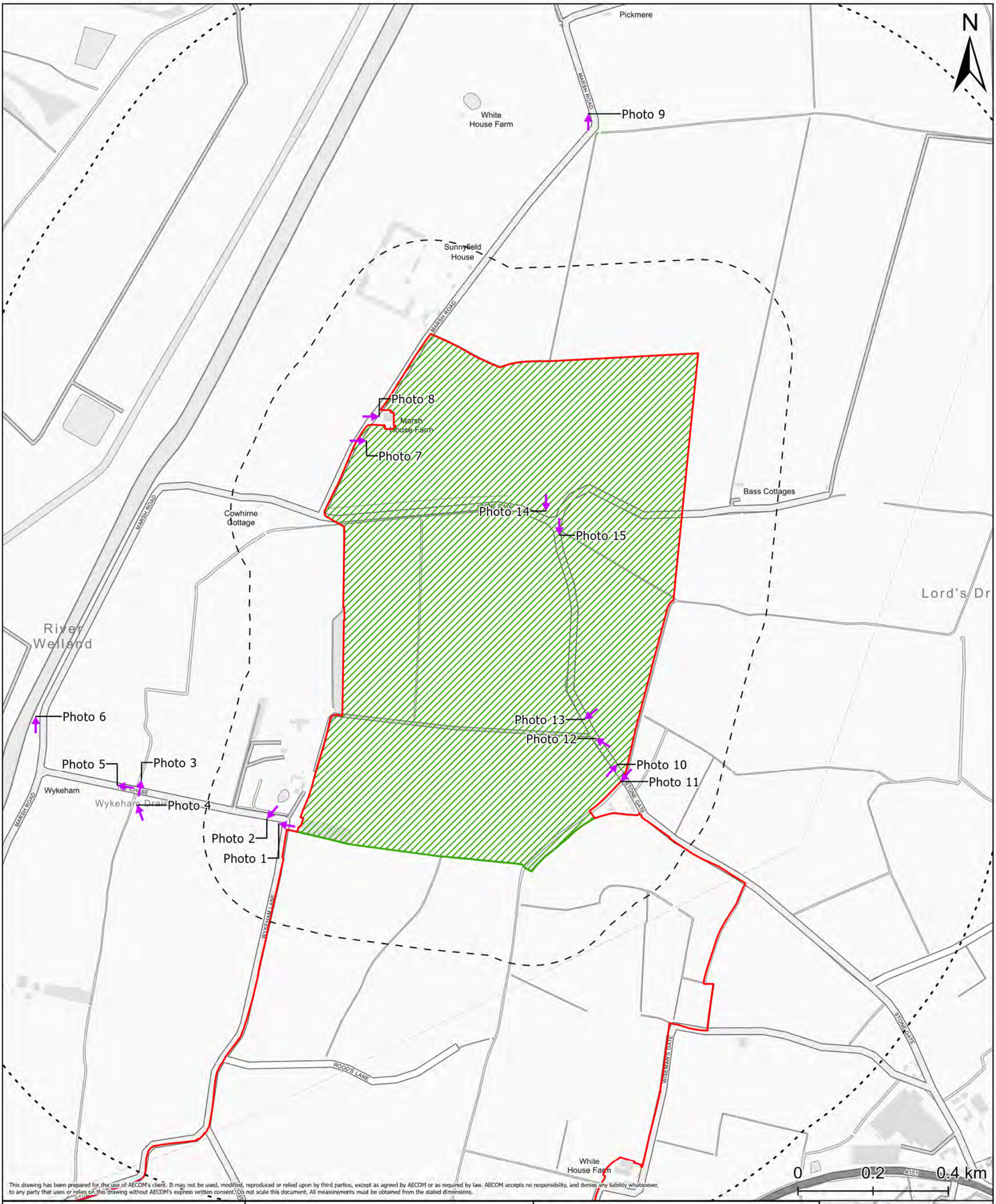
8.1.26. Prior to work commencing, a health and safety risk assessment would be carried out by the appointed Principal Contractor / developed in accordance with current health and safety regulations. This assessment would cover potential risks to construction staff, permanent site staff and the local population. Based on the findings of this risk assessment, appropriate mitigation measures would be implemented during the construction period.

8.1.27. The greatest potential for generation of dust will be during the Site works and therefore dust generation would be kept to a minimum in accordance with general best practice, as outlined in, for example, 'Environmental Good Practice on Site', CIRIA Publication C811[27] to reduce this risk.

8.1.28. The risk to construction workers during the excavation and construction phases in terms of potential exposure to high concentrations of contaminants is considered to be low given the historic and current land uses identified at the Site. Should gross contamination be identified during the construction phase, then this may pose a potential acute risk to construction works. It is likely to be able to be effectively managed through good health and safety practices and protocols. Adoption of appropriate dust suppression techniques would also mitigate the degree of potential particulate migration off-site.

[26] Health and Safety Executive (HSE) (2015). The Construction (Design and Management) Regulations 2015. Available at: https://www.hse.gov.uk/construction/cdm/2015/index.htm [Accessed February 2026]
[27] CIRIA (2023). Environmental good practice on site guide (fifth edition) C811.

Annex C Site Walkover Photographic Record



Project Title

Meridian Solar Farm

Map Title

Environmental Statement
Appendix 5-5
Site Walkover Photograph Locations

Scale	Version	Drawn	Reviewed
1:9,000	0	LL	AK

Legend

- Order Limits
- Grid Connection Route Extension
- 250m Study Area for Geology and Contaminated Land
- 1km Study Area for Hydrogeology
- Approximate Photo Location and Direction

Date: 20/03/2026

Meridian Solar

PHOTOGRAPHIC LOG

Client Name: Meridian Solar	**Site Location: Spalding Marsh**	**Project No. 60753382**

Photo No. 1	**Date:** 27/01/2026

Direction Photo Taken:

West

Description

Photo taken from junction of Wykeham Lane and The Chase, adjacent to the Ruins of the Chapel of St Nicholas. Fields in foreground show wilted brassica crops, beyond the trees field is ploughed.

Off-site

Photo No. 2	**Date:** 27/01/2026

Direction Photo Taken:

South west

Description

Drainage ditch parallel to The Chase (public road). Surface water appears stagnant with no visible sign of contamination beyond turbidity.

Off-site

PHOTOGRAPHIC LOG

Client Name: Meridian Solar	**Site Location: Spalding Marsh**	**Project No. 60753382**

Photo No. 3	**Date:** 27/01/2026

Direction Photo Taken:

North

Description

Wykeham Drain which flows beneath The Chase. No indication of flow direction. Surface water shows no visible sign of contamination beyond turbidity.

Off-site

Photo No. 4	**Date:** 27/01/2026

Direction Photo Taken:

North west

Description

Wykeham Drain culvert on the southern side of The Chase.

Off-site

PHOTOGRAPHIC LOG		
Client Name: Meridian Solar	**Site Location: Spalding Marsh**	**Project No. 60753382**

Photo No. 5	**Date:** 27/01/2026
Direction Photo Taken: West	
Description Deposited waste in drainage ditch running alongside The Chase approximately. Waste was plastic, black bags, wood and dried vegetation. Off-site	

Photo No. 6	**Date:** 27/01/2026
Direction Photo Taken: North	
Description River Welland, positioned beyond a raised embankment and running parallel to Marsh Road. Off-site	

PHOTOGRAPHIC LOG

Client Name: Meridian Solar	**Site Location: Spalding Marsh**	**Project No. 60753382**

Photo No. 7	**Date:** 27/01/2026

Direction Photo Taken:

East

Description

Brassica field with sheep grazing. To the left is Marsh Farm yard.

On-site

Photo No. 8	**Date:** 27/01/2026

Direction Photo Taken:

East

Description

Marsh Farm yard entrance. Two pale colour tanks, contents unconfirmed but possibly propane, and a black storage vessel contents unknown.

Off-site

PHOTOGRAPHIC LOG		
Client Name: Meridian Solar	**Site Location: Spalding Marsh**	**Project No. 60753382**

Photo No. 9	**Date:** 27/01/2026
Direction Photo Taken: North	
Description Looking along Marsh Road with houses in the distance. Brassica field to the right. Off-site	

Photo No. 10	**Date:** 27/01/2026
Direction Photo Taken: North east	
Description Surface water drain (Lord's Drain) following the eastern Site boundary. Water shows no visible sign of contamination besides turbidity. On-site	

PHOTOGRAPHIC LOG

Client Name: Meridian Solar	**Site Location: Spalding Marsh**	**Project No. 60753382**

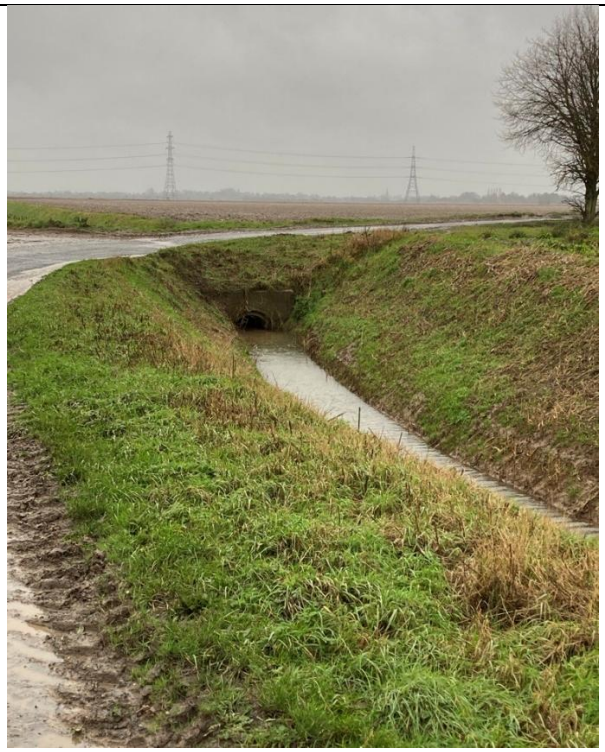
Photo No. 11	**Date:** 27/01/2026
Direction Photo Taken: South West	
Description Lord's Drain. Houses are behind the trees to the left. On-site	

Photo No. 12	**Date:** 27/01/2026
Direction Photo Taken: North west	
Description The gated entrance is access to small private farm track which cuts across the Site. Fly tipping in the ditch parallel to the road. Waste includes metal, planks, wood, car tyre and plastic. On-site	

PHOTOGRAPHIC LOG		
Client Name: Meridian Solar	**Site Location: Spalding Marsh**	**Project No. 60753382**

Photo No. **13**	**Date:** 27/01/2026
Direction Photo Taken: South west	
Description Car tyres discarded in ditch On-site	

Photo No. **14**	**Date:** 27/01/2026
Direction Photo Taken: South	
Description Wykeham Drain culverted under Stone Gate. No visible signs of contamination aside from turbidity. On-site	



PHOTOGRAPHIC LOG

Client Name: Meridian Solar	**Site Location: Spalding Marsh**	**Project No. 60753382**

Photo No.	**Date:**
15	27/01/2026

Direction Photo Taken:

South

Description

Surface water with high volumes of sediment pooling along Stone Gate.

On-site

Annex D Groundsure Report

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Meridian Solar - Grid Connection Route Weston Marsh Extension

Order Details

Date: 09/01/2026

Your ref: 60753382 (PO number to follow)

Our Ref: GS-3KT-5H2-SGQ-H95

Site Details

Location: 528182 326809

Area: 111.09 ha

Authority: South Holland District Council ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	0	0	4	0	-
15 >	1.2 >	Historical tanks >	0	0	2	0	-
15	1.3	Historical energy features	0	0	0	0	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	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
17 >	2.1 >	Historical industrial land uses >	0	0	4	0	-
18 >	2.2 >	Historical tanks >	0	0	2	0	-
18	2.3	Historical energy features	0	0	0	0	-
18	2.4	Historical petrol stations	0	0	0	0	-
19	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
20	3.1	Active or recent landfill	0	0	0	0	-
20	3.2	Historical landfill (BGS records)	0	0	0	0	-
21	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
21	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
21	3.5	Historical waste sites	0	0	0	0	-
21	3.6	Licensed waste sites	0	0	0	0	-
21 >	3.7 >	Waste exemptions >	0	0	3	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
23 >	4.1 >	Recent industrial land uses >	0	0	4	-	-
24 >	4.2 >	National Geographic Database (NGD) - Current or recent tanks >	0	0	1	-	-
24	4.3	Current or recent petrol stations	0	0	0	0	-
24	4.4	Electricity cables	0	0	0	0	-
24	4.5	Gas pipelines	0	0	0	0	-

25	4.6	Sites determined as Contaminated Land	0	0	0	0	-
25	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
25	4.8	Regulated explosive sites	0	0	0	0	-
25	4.9	Hazardous substance storage/usage	0	0	0	0	-
25	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
26	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
26	4.12	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
26	4.13	Radioactive Substance Authorisations	0	0	0	0	-
26	4.14	Licensed Discharges to controlled waters	0	0	0	0	-
26	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
27	4.16	Pollutant release to public sewer	0	0	0	0	-
27	4.17	List 1 Dangerous Substances	0	0	0	0	-
27	4.18	List 2 Dangerous Substances	0	0	0	0	-
27	4.19	Pollution Incidents (EA/NRW)	0	0	0	0	-
27	4.20	Pollution inventory substances	0	0	0	0	-
28	4.21	Pollution inventory waste transfers	0	0	0	0	-
28	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology** >	On site	0-50m	50-250m	250-500m	500-2000m
29 >	**5.1** >	**Superficial aquifer** >	Identified (within 500m)				
30 >	**5.2** >	**Bedrock aquifer** >	Identified (within 500m)				
31 >	**5.3** >	**Groundwater vulnerability** >	Identified (within 50m)				
32	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
33	5.5	Groundwater vulnerability- local information	None (within 0m)				
34	5.6	Groundwater abstractions	0	0	0	0	0
35 >	**5.7** >	**Surface water abstractions** >	0	0	0	3	10
37	5.8	Potable abstractions	0	0	0	0	0
38	5.9	Source Protection Zones	0	0	0	0	-
38	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology** >	On site	0-50m	50-250m	250-500m	500-2000m

39 >	6.1 >	Water Network (OS MasterMap) >	16	13	25	-	-
44 >	6.2 >	Surface water features >	1	6	13	-	-
44 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
44 >	6.4 >	WFD Surface water bodies >	0	1	0	-	-
45	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
46 >	7.1 >	Risk of flooding from rivers and the sea >	Medium (within 50m)				
47	7.2	Historical Flood Events	0	0	0	-	-
47	7.3	Flood Defences	0	0	0	-	-
47	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
47	7.5	Flood Storage Areas	0	0	0	-	-
48 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
49 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
50 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
52 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
53	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
53	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
53	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
53	10.4	Special Protection Areas (SPA)	0	0	0	0	0
54	10.5	National Nature Reserves (NNR)	0	0	0	0	0
54	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
54	10.7	Designated Ancient Woodland	0	0	0	0	0
54	10.8	Biosphere Reserves	0	0	0	0	0
55	10.9	Forest Parks	0	0	0	0	0
55	10.10	Marine Conservation Zones	0	0	0	0	0
55	10.11	Green Belt	0	0	0	0	0

55	10.12	Proposed Ramsar sites	0	0	0	0	0
55	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
56	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
56	10.15	Nitrate Sensitive Areas	0	0	0	0	0
56 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	1	4
57 >	10.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
58	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
59	11.1	World Heritage Sites	0	0	0	-	-
60	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
60	11.3	National Parks	0	0	0	-	-
60 >	11.4 >	Listed Buildings >	0	0	3	-	-
61	11.5	Conservation Areas	0	0	0	-	-
61 >	11.6 >	Scheduled Ancient Monuments >	0	1	0	-	-
61	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations** >	On site	0-50m	50-250m	250-500m	500-2000m
62 >	12.1 >	Agricultural Land Classification >	Grade 1 (within 250m)				
63	12.2	Open Access Land	0	0	0	-	-
63	12.3	Tree Felling Licences	0	0	0	-	-
63	12.4	Environmental Stewardship Schemes	0	0	0	-	-
63	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	**Habitat designations** >	On site	0-50m	50-250m	250-500m	500-2000m
64 >	13.1 >	Priority Habitat Inventory >	4	4	3	-	-
65 >	13.2 >	Habitat Networks >	0	0	1	-	-
65	13.3	Open Mosaic Habitat	0	0	0	-	-
66	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
67 >	14.1 >	10k Availability >	Identified (within 500m)				
68	14.2	Artificial and made ground (10k)	0	0	0	0	-

69	14.3	Superficial geology (10k)	0	0	0	0	-
69	14.4	Landslip (10k)	0	0	0	0	-
70	14.5	Bedrock geology (10k)	0	0	0	0	-
70	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
71 >	15.1 >	**50k Availability >**	Identified (within 500m)				
72	15.2	Artificial and made ground (50k)	0	0	0	0	-
72	15.3	Artificial ground permeability (50k)	0	0	-	-	-
73 >	15.4 >	**Superficial geology (50k) >**	1	0	0	0	-
74 >	15.5 >	**Superficial permeability (50k) >**	Identified (within 50m)				
74	15.6	Landslip (50k)	0	0	0	0	-
74	15.7	Landslip permeability (50k)	None (within 50m)				
75 >	15.8 >	**Bedrock geology (50k) >**	1	0	0	0	-
76 >	15.9 >	**Bedrock permeability (50k) >**	Identified (within 50m)				
76	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
77 >	16.1 >	**BGS Boreholes >**	1	0	0	-	-
Page	Section	**Natural ground subsidence >**					
78 >	17.1 >	**Shrink swell clays >**	Low (within 50m)				
79 >	17.2 >	**Running sands >**	Moderate (within 50m)				
80 >	17.3 >	**Compressible deposits >**	Moderate (within 50m)				
81 >	17.4 >	**Collapsible deposits >**	Negligible (within 50m)				
82 >	17.5 >	**Landslides >**	Very low (within 50m)				
83 >	17.6 >	**Ground dissolution of soluble rocks >**	Negligible (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
85	18.1	BritPits	0	0	0	0	-
86 >	18.2 >	**Surface ground workings >**	0	0	7	-	-
86	18.3	Underground workings	0	0	0	0	0
86	18.4	Underground mining extents	0	0	0	0	-

87	18.5	Historical Mineral Planning Areas	0	0	0	0	-
87	18.6	Non-coal mining	0	0	0	0	0
87	18.7	JPB mining areas	None (within 0m)				
87	18.8	The Coal Authority non-coal mining	0	0	0	0	-
88	18.9	Researched mining	0	0	0	0	-
88	18.10	Mining record office plans	0	0	0	0	-
88	18.11	BGS mine plans	0	0	0	0	-
88	18.12	Coal mining	None (within 0m)				
88	18.13	Brine areas	None (within 0m)				
89	18.14	Gypsum areas	None (within 0m)				
89	18.15	Tin mining	None (within 0m)				
89	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
90	19.1	Natural cavities	0	0	0	0	-
90	19.2	Mining cavities	0	0	0	0	0
90	19.3	Reported recent incidents	0	0	0	0	-
90	19.4	Historical incidents	0	0	0	0	-
Page	Section	**Radon** >					
92 >	**20.1** >	**Radon** >	Less than 1% (within 0m)				
Page	Section	**Soil chemistry** >	On site	0-50m	50-250m	250-500m	500-2000m
94 >	**21.1** >	**BGS Estimated Background Soil Chemistry** >	11	1	-	-	-
94	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
95	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
96	22.1	Underground railways (London)	0	0	0	-	-
96	22.2	Underground railways (Non-London)	0	0	0	-	-
96	22.3	Railway tunnels	0	0	0	-	-
96	22.4	Historical railway and tunnel features	0	0	0	-	-
96	22.5	Royal Mail tunnels	0	0	0	-	-

97	22.6	Historical railways	0	0	0	-	-
97	22.7	Railways	0	0	0	-	-
97	22.8	Crossrail 2	0	0	0	0	-
97	22.9	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 29/05/2021

Site Area: 111.09ha

Recent site history - 2018 aerial photograph

Capture Date: 20/04/2018

Site Area: 111.09ha

Recent site history - 2015 aerial photograph

Capture Date: 18/07/2015

Site Area: 111.09ha

Recent site history - 2007 aerial photograph

Capture Date: 12/09/2007

Site Area: 111.09ha

Recent site history - 1999 aerial photograph

Capture Date: 18/06/1999

Site Area: 111.09ha

1 Past land use

Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

1.1 Historical industrial land uses

Records within 500m	4

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

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

ID	Location	Land use	Dates present	Group ID
1	114m NW	Nursery	1989	2062728

ID	Location	Land use	Dates present	Group ID
A	118m NW	Nursery	1975	2060210
A	137m NW	Unspecified Tank	1989	2037152
2	219m W	Unspecified Ground Workings	1950	2041552

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m	**2**

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 14 >**

ID	Location	Land use	Dates present	Group ID
A	138m NW	Tanks	1987	354704
A	142m NW	Unspecified Tanks	1972	356398

This data is sourced from Ordnance Survey® / Groundsure.

1.3 Historical energy features

Records within 500m	**0**

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'.

This data is sourced from Ordnance Survey® / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale, 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'.

This data is sourced from Ordnance Survey® / Groundsure.

1.5 Historical garages

Records within 500m	0

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'.

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

Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

2.1 Historical industrial land uses

Records within 500m	4

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 17 >**

ID	Location	Land Use	Date	Group ID
1	114m NW	Nursery	1989	2062728
A	118m NW	Nursery	1975	2060210
A	137m NW	Unspecified Tank	1989	2037152

ID	Location	Land Use	Date	Group ID
2	219m W	Unspecified Ground Workings	1950	2041552

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m	2

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 17 >**

ID	Location	Land Use	Date	Group ID
A	138m NW	Tanks	1987	354704
A	142m NW	Unspecified Tanks	1972	356398

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m	0

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'.

This data is sourced from Ordnance Survey® / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey® / Groundsure.

2.5 Historical garages

Records within 500m	0

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'.

This data is sourced from Ordnance Survey® / Groundsure.

3 Waste and landfill

Site Outline

Search buffers in metres (m)

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	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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.

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	3

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 20 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	162m N	Wragg Marsh Farm, Marsh Road, Spalding Marsh, Spalding, Pe12 6hq	WEX022898	Disposing of waste exemption	On a farm	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
A	164m N	Wragg Marsh Farm, Marsh Road, Spalding Marsh, Spalding, Pe12 6hq	WEX188692	Disposing of waste exemption	On a farm	Burning waste in the open
A	164m N	Wragg Marsh Farm, Marsh Road, Spalding Marsh, Spalding, Pe12 6hq	WEX319377	Disposing of waste exemption	On a farm	Burning waste in the open

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

4 Current industrial land use

Site Outline

Search buffers in metres (m)

Recent industrial land uses

NGD current or recent tanks

4.1 Recent industrial land uses

Records within 250m	4

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 23 >**

ID	Location	Company	Address	Activity	Category
1	57m W	A J Hay	Wykeham Farm, The Chase, Spalding, Lincolnshire, PE12 6HE	Animal Feeds, Pet Foods, Hay and Straw	Foodstuffs
2	115m W	Pump	Lincolnshire, PE12	Water Pumping Stations	Industrial Features
A	143m NW	Silo	Lincolnshire, PE12	Hoppers and Silos	Farming

ID	Location	Company	Address	Activity	Category
3	205m NE	Kindergarden Plants	Sunnyfield, Marsh Road, Weston, Spalding, Lincolnshire, PE12 6HH	Fruit, Flower and Vegetable Growers	Farming

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	1

Current or recent tanks identified from the Ordnance Survey® NGD.

Features are displayed on the Current industrial land use map on **page 23 >**

ID	Location	Tank description	Activity	Date first identified
A	146m NW	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	22/09/1991

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 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.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.9 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.10 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.

4.11 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

4.12 Licensed pollutant release (Part A(2)/B)

Records within 500m	0

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.

This data is sourced from Local Authority records.

4.13 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.

4.14 Licensed Discharges to controlled waters

Records within 500m	0

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

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

4.15 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.

4.16 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.

4.17 List 1 Dangerous Substances

Records within 500m	0

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

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

4.18 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.

4.19 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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

4.20 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.

4.21 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.

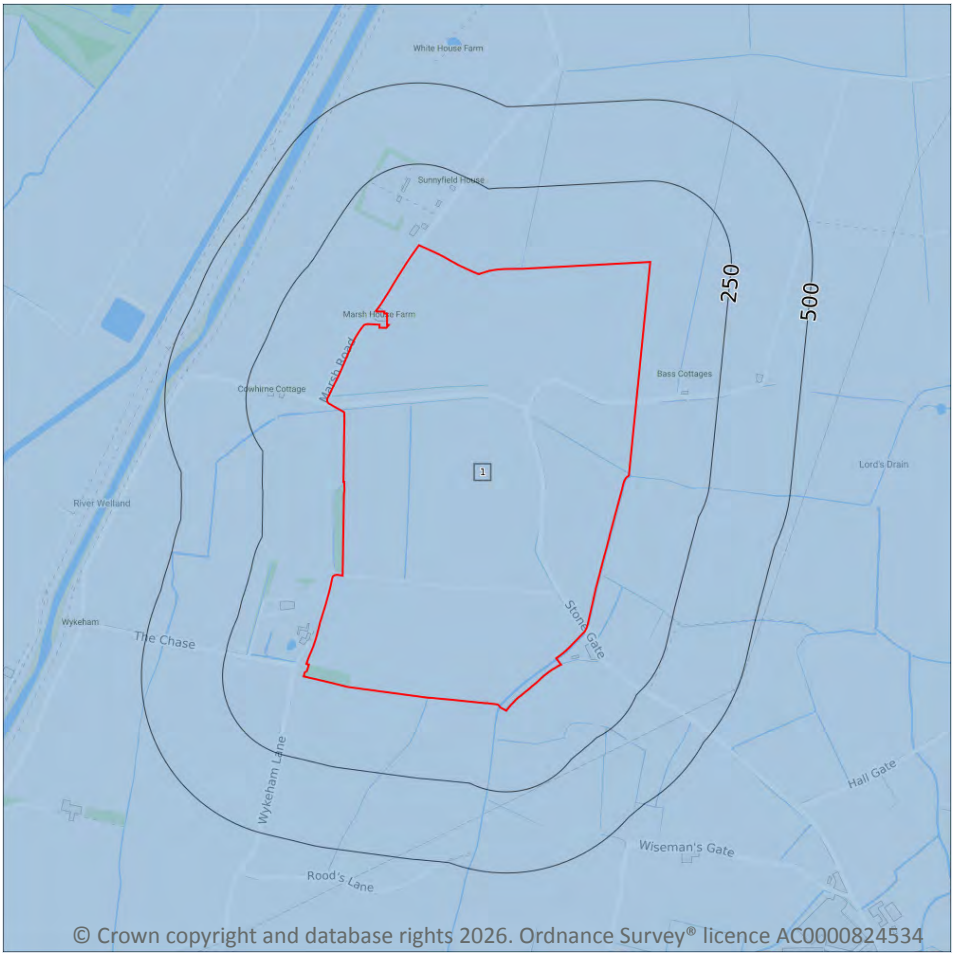
4.22 Pollution inventory radioactive waste

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	1

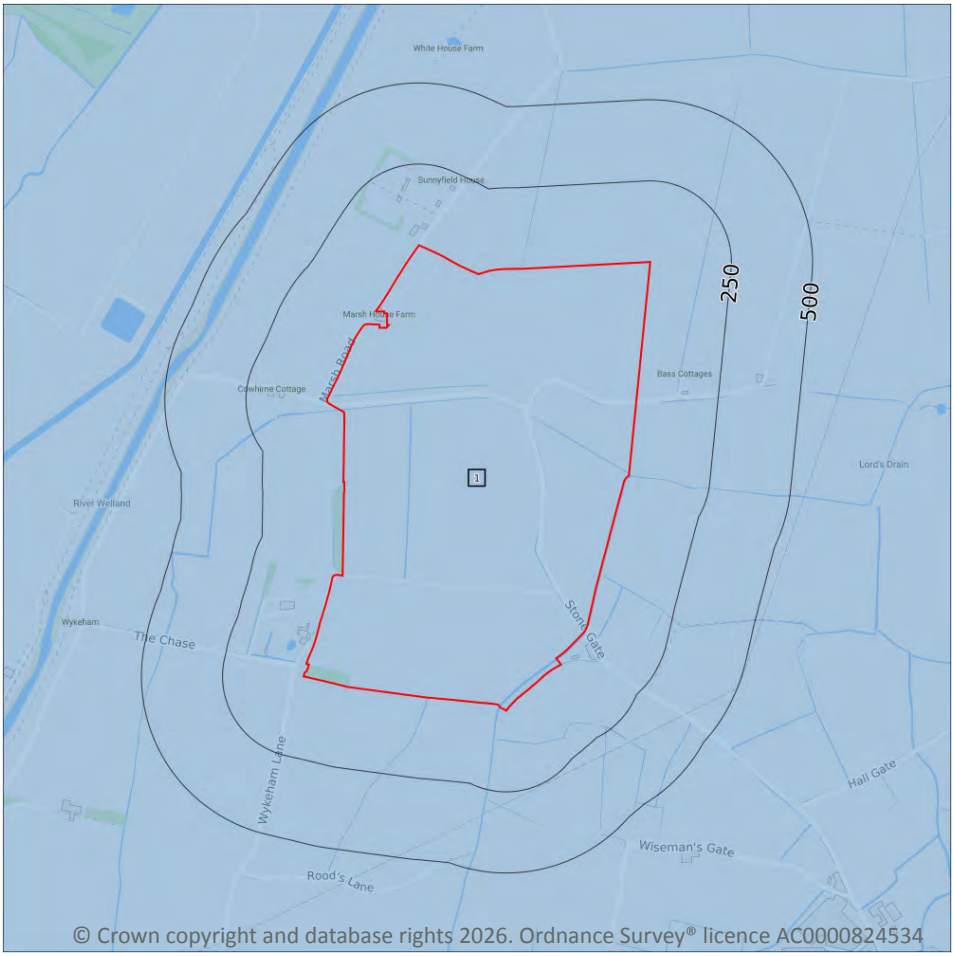
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 29 >**

ID	Location	Designation	Description
1	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**

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

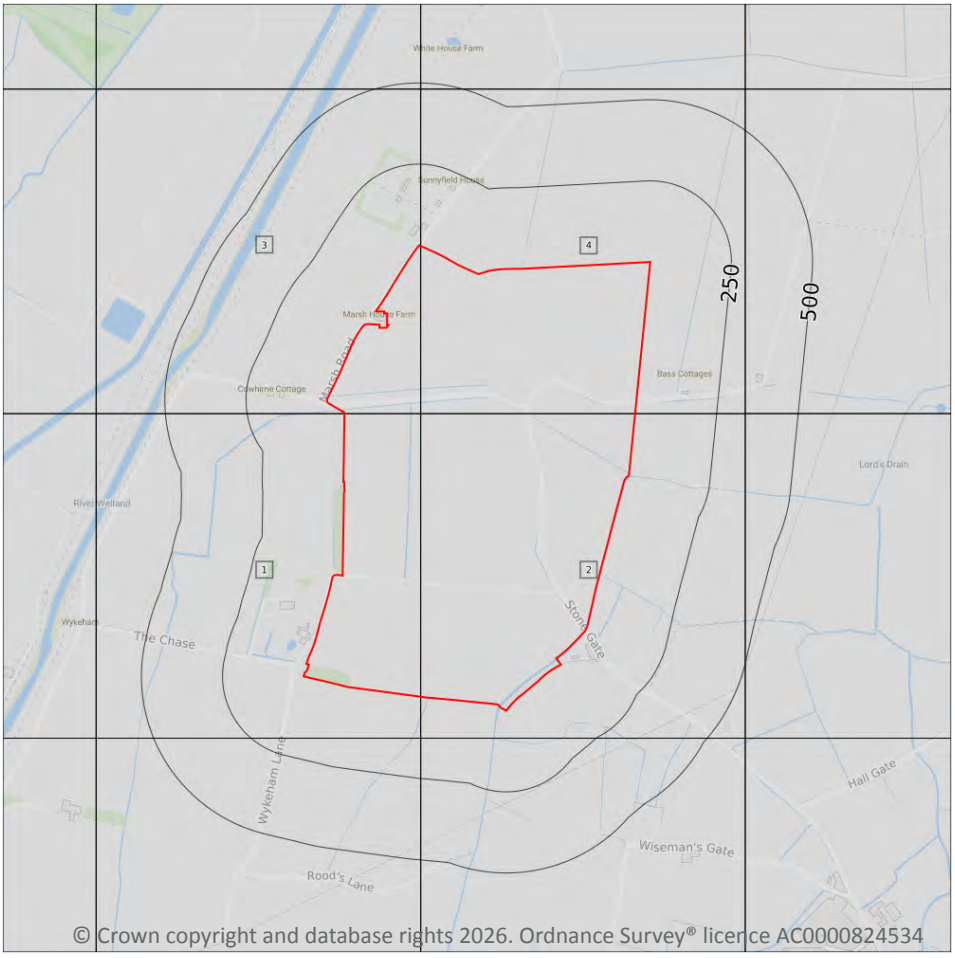
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 30 >**

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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	4

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 31 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
2	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
3	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
4	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

5.5 Groundwater vulnerability- local information

Records on site	0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on 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	0

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.

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

5.7 Surface water abstractions

Records within 2000m	13

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 34 >**

ID	Location	Details	
A	462m W	Status: Active Licence No: 5/31/14/*S/0247 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN "G - H" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 527010 Northing: 327090	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -
A	462m W	Status: Active Licence No: 5/31/14/*S/0247 Details: General Farming & Domestic Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN "G - H" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 527010 Northing: 327090	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -
A	462m W	Status: Active Licence No: 5/31/14/*S/0247 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN "G - H" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 527010 Northing: 327090	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -
B	527m NW	Status: Active Licence No: 5/31/14/*S/0247 Details: General Farming & Domestic Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN "A - B" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 526190 Northing: 325300	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -

ID	Location	Details	
B	527m NW	Status: Active Licence No: 5/31/14/*S/0247 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN "A - B" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 526190 Northing: 325300	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -
1	1008m NW	Status: Active Licence No: 5/31/14/*S/0247 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: BLUE GOWT "C - D" Data Type: Line Name: LINCOLNSHIRE FIELD PRODUCTS LTD Easting: 525810 Northing: 325600	Annual Volume (m^3): 135000 Max Daily Volume (m^3): 8000 Original Application No: NS761 Original Start Date: 27/11/1998 Expiry Date: - Issue No: 1 Version Start Date: 27/11/1998 Version End Date: -
-	1212m E	Status: Active Licence No: AN/031/0014/062 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: LORDS DRAIN AT LAMBERTS FARM, SPALDING Data Type: Point Name: Oldershaws of Moulton Limited Easting: 529893 Northing: 327142	Annual Volume (m^3): 45454 Max Daily Volume (m^3): 1296 Original Application No: NPS/WR/037260 Original Start Date: 03/03/2023 Expiry Date: 31/03/2038 Issue No: 1 Version Start Date: 03/03/2023 Version End Date: -
-	1390m W	Status: Active Licence No: 5/31/14/*S/0222 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: BLUE GOWT DRAIN, PINCHBECK Data Type: Point Name: ELSOMS SEEDS LTD Easting: 526250 Northing: 326200	Annual Volume (m^3): 6000 Max Daily Volume (m^3): 120 Original Application No: - Original Start Date: 01/03/1996 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2004 Version End Date: -
-	1753m NW	Status: Active Licence No: 5/31/14/*S/0123 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: R GLEN AT SURFLEET Data Type: Point Name: SPALDING GOLF CLUB Easting: 526700 Northing: 328700	Annual Volume (m^3): 3410 Max Daily Volume (m^3): 250.03 Original Application No: - Original Start Date: 01/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2004 Version End Date: -

ID	Location	Details	
-	1776m NW	Status: Active Licence No: 5/31/14/*S/0249/R01 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER GLEN IN SURFLEET Data Type: Point Name: Goude Easting: 526640 Northing: 328668	Annual Volume (m^3): 12800 Max Daily Volume (m^3): 302.4 Original Application No: NPS/WR/038517 Original Start Date: 13/09/2022 Expiry Date: 31/03/2038 Issue No: 2 Version Start Date: 08/03/2023 Version End Date: -
-	1778m NW	Status: Historical Licence No: 5/31/14/*S/0249 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER GLEN - SURFLEET Data Type: Point Name: SPALDING GOLF CLUB Easting: 526640 Northing: 328670	Annual Volume (m^3): 12800 Max Daily Volume (m^3): 302.40 Original Application No: - Original Start Date: 09/01/2002 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2004 Version End Date: -
-	1778m NW	Status: Historical Licence No: 5/31/14/*S/0249/L Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER GLEN - SURFLEET Data Type: Point Name: SPALDING GOLF CLUB Easting: 526640 Northing: 328670	Annual Volume (m^3): 12800 Max Daily Volume (m^3): 302.40 Original Application No: N1224 Original Start Date: 01/04/2022 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2022 Version End Date: -
-	1904m SW	Status: Historical Licence No: 5/31/14/*S/0014 Details: Non-Evaporative Cooling Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: VERNATTS DRAIN Data Type: Line Name: SPALDING ENERGY CO LTD Easting: 525340 Northing: 324320	Annual Volume (m^3): 2727660 Max Daily Volume (m^3): 22912 Original Application No: - Original Start Date: 01/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/02/2002 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**0**

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

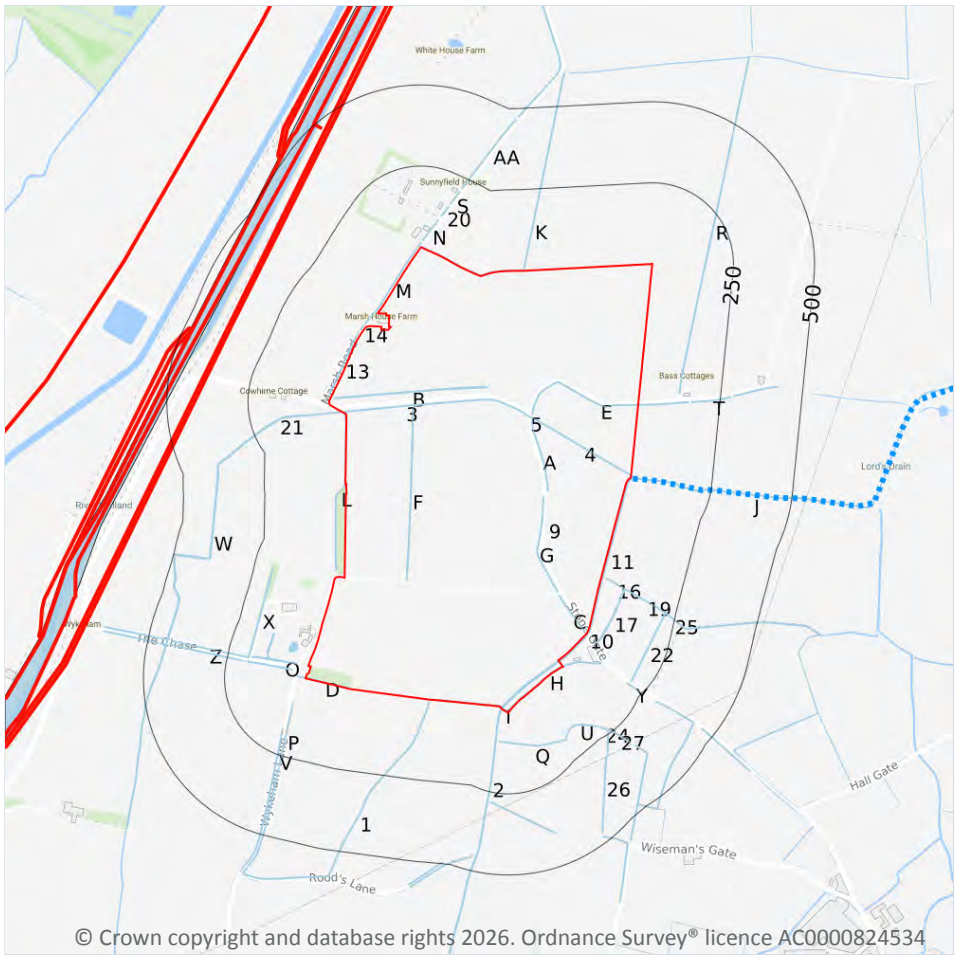
5.10 Source Protection Zones (confined aquifer)

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	54

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 39 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	**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
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lord's Drain
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wykeham Drain
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wykeham Drain
5	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Wykeham Drain
A	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)	-
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	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wheat Mere Drain
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lord's Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
I	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Wheat Mere Drain**
I	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
K	1m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	1m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	2m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Lord's Drain
11	4m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lord's Drain
J	6m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lord's Drain
13	8m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	8m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	8m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	13m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	22m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	35m W	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
17	40m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	46m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
19	80m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	87m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	91m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	112m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	123m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	123m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	124m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	158m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	161m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	161m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Wykeham Drain
U	166m SE	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
V	168m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	170m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Wykeham Drain
X	185m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	189m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	194m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	199m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	201m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	216m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	216m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
25	219m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	238m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
27	238m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	239m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AA	243m NE	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	20

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 39 >**

This data is sourced from the Ordnance Survey®.

6.3 WFD Surface water body catchments

Records on site	1

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 39 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
9	**On site**	**River**	**Moulton River**	**GB205031050755**	**Welland Lower**	**Welland**

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

6.4 WFD Surface water bodies

Records identified	1

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 39 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
12	8m SE	River	Moulton River	GB205031050755 ↗	Moderate	Fail	Moderate	2019

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

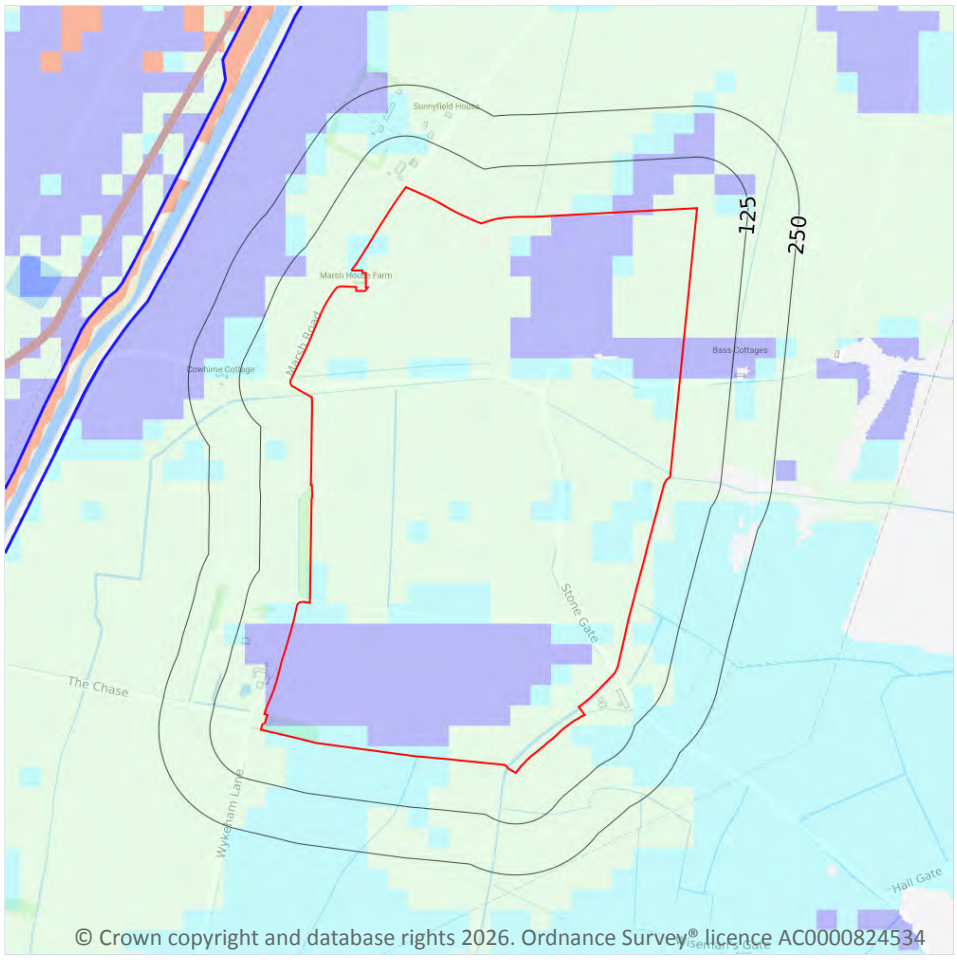
6.5 WFD Groundwater bodies

Records on site	0

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.

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

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	25

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

Features are displayed on the River and coastal flooding map on **page 46 >**

Distance	Flood risk category
On site	**Medium**
0 - 50m	Medium

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.

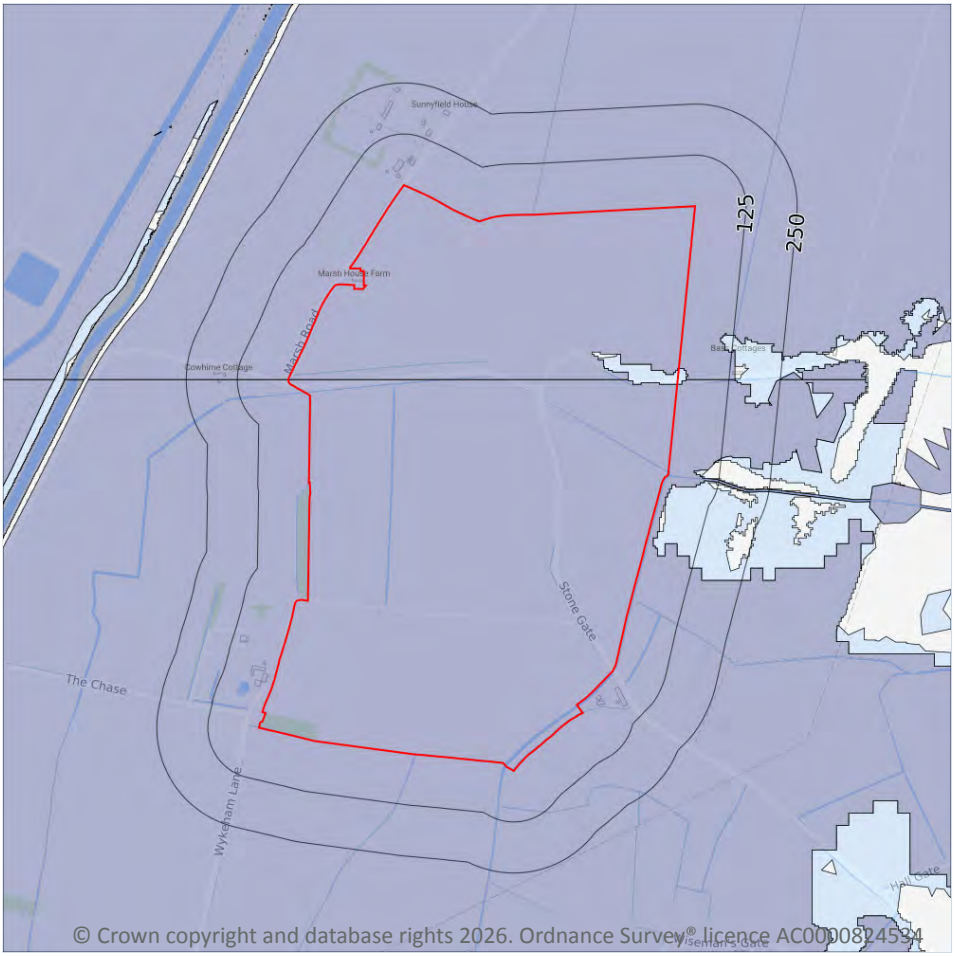
7.5 Flood Storage Areas

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



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

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.

Features are displayed on the River and coastal flooding map on **page 46 >**

Location	Type
On site	**Zone 2 - (Fluvial /Tidal Models)**

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

7.7 Flood Zone 3

Records within 50m	1

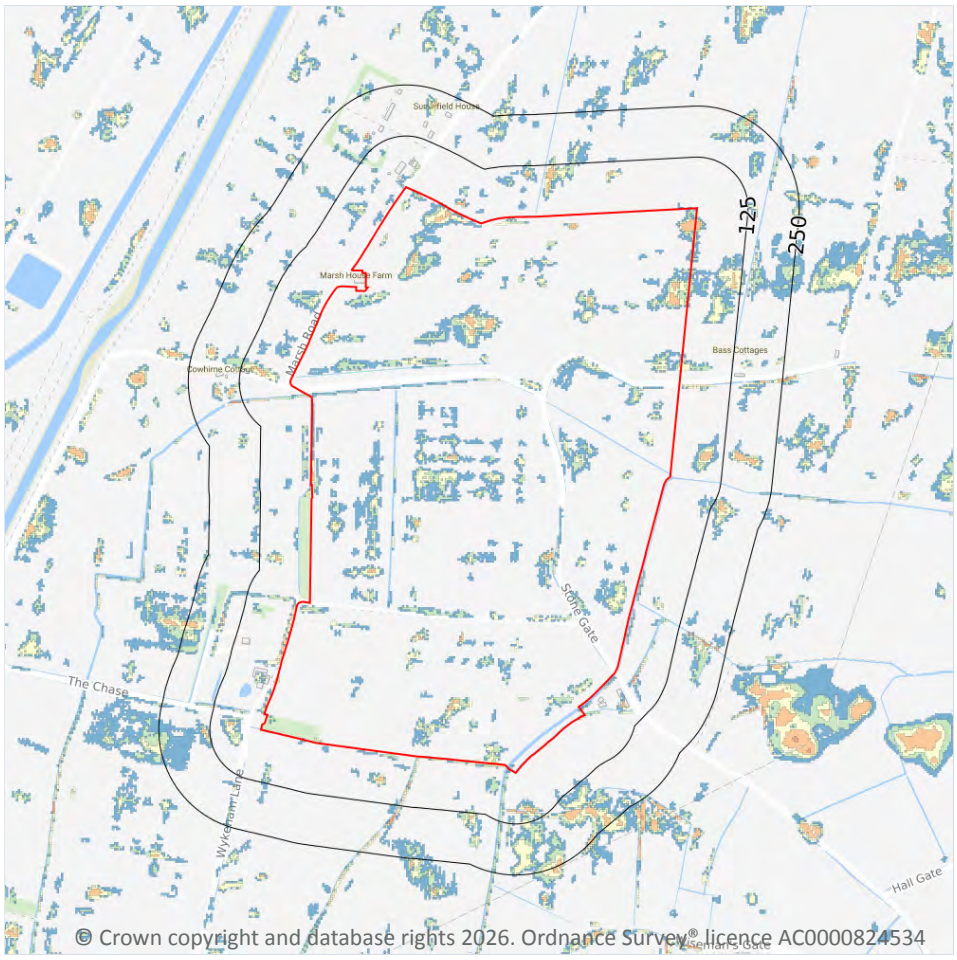
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 46 >**

Location	Type
On site	**Zone 3 - (Fluvial /Tidal Models)**

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, 0.3m - 1.0m**
Highest risk within 50m	**1 in 30 year, 0.3m - 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 50 >**

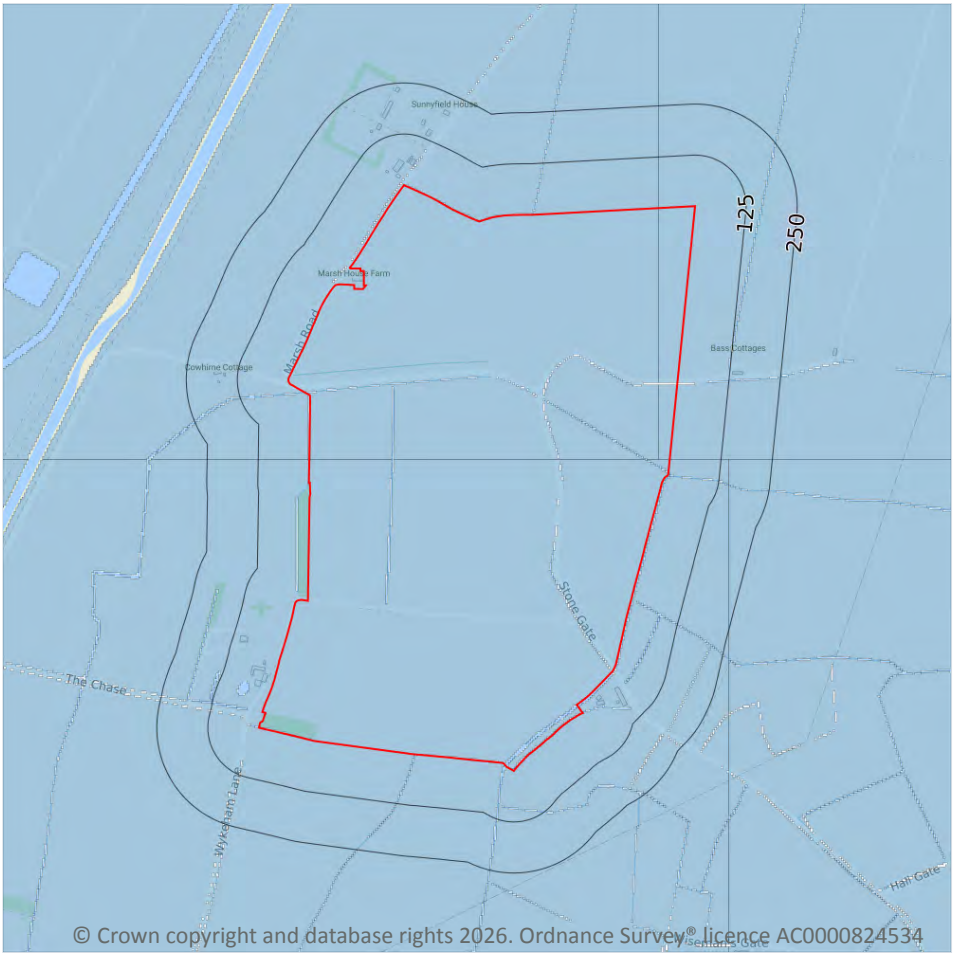
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 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	**Negligible**
Highest risk within 50m	**Negligible**

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 52 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were 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	0

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.

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	0

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

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

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

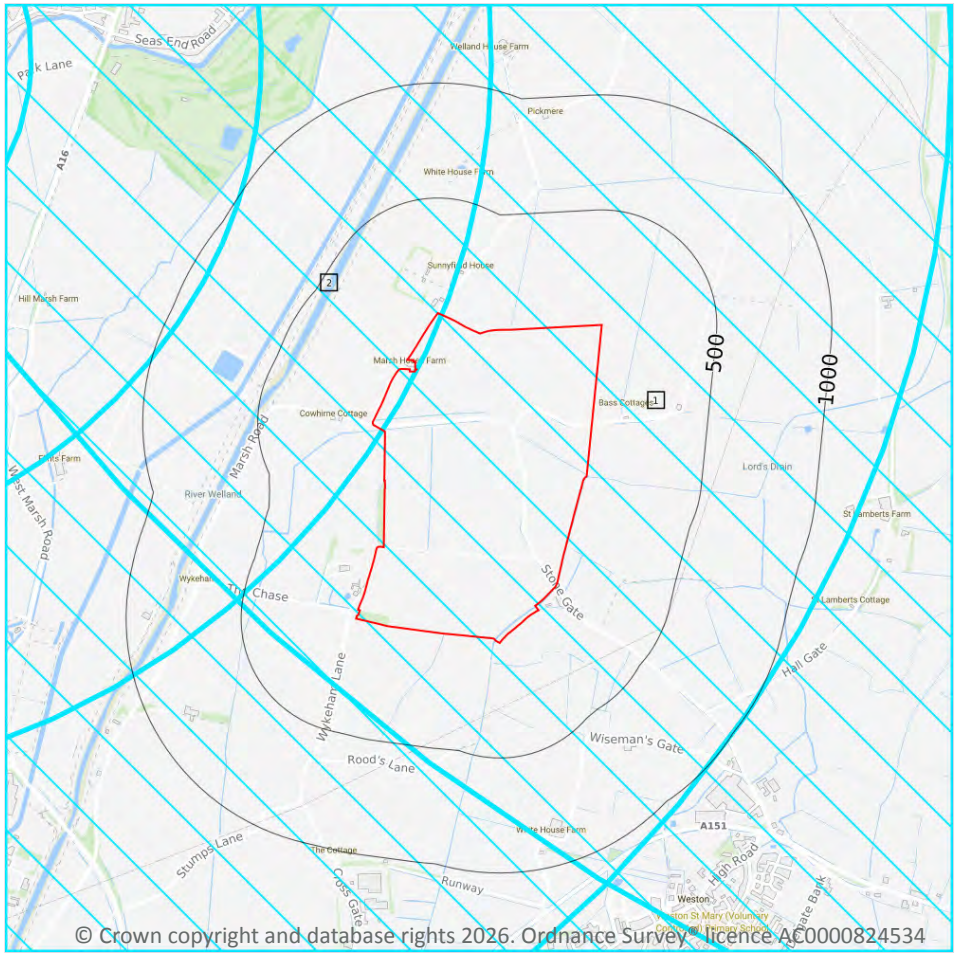
Records within 2000m	5

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
475m NW	Vernatt's Drain NVZ	Surface Water	379	Existing
738m NW	Glen NVZ	Surface Water	378	Existing
1062m W	Vernatt's Drain NVZ	Surface Water	379	Existing
1364m W	Glen NVZ	Surface Water	378	Existing
1783m N	Risegate Eau NVZ	Surface Water	381	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	2

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

Features are displayed on the SSSI Impact Zones and Units map on **page 57 >**

ID	Location	Type of developments requiring consultation
1	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0300000500050&notes=&location=527032,332194%20(IRZ%20polygon%20centre)
2	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0301000500050&notes=&location=526148,331007%20(IRZ%20polygon%20centre)

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	3

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 59 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	75m W	The Wykeham Chapel Of St Nicholas	I	1064471	07/02/1967
A	99m W	Chapel Farmhouse	II	1147513	07/02/1967
2	177m W	Gate Piers To Chapel Farmhouse	II	1064472	07/12/1987

This data is sourced from Historic England, 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 Historic England, 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 59 >**

ID	Location	Ancient monument name	Reference number
A	5m W	Wykeham Chapel: a moated monastic grange and retreat house	1019096

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

11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations

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	1

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 62 >**

ID	Location	Classification	Description
1	On site	Grade 1	**Excellent quality agricultural land. Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.**

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. The schemes identified may be historical schemes that have now expired, or may still be active.

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	11

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 64 >**

ID	Location	Main Habitat	Other habitats
1	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
A	3m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	20m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	35m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	49m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	105m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	173m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	174m N	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	**1**

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 64 >**

ID	Location	Type	Habitat
8	158m NW	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.

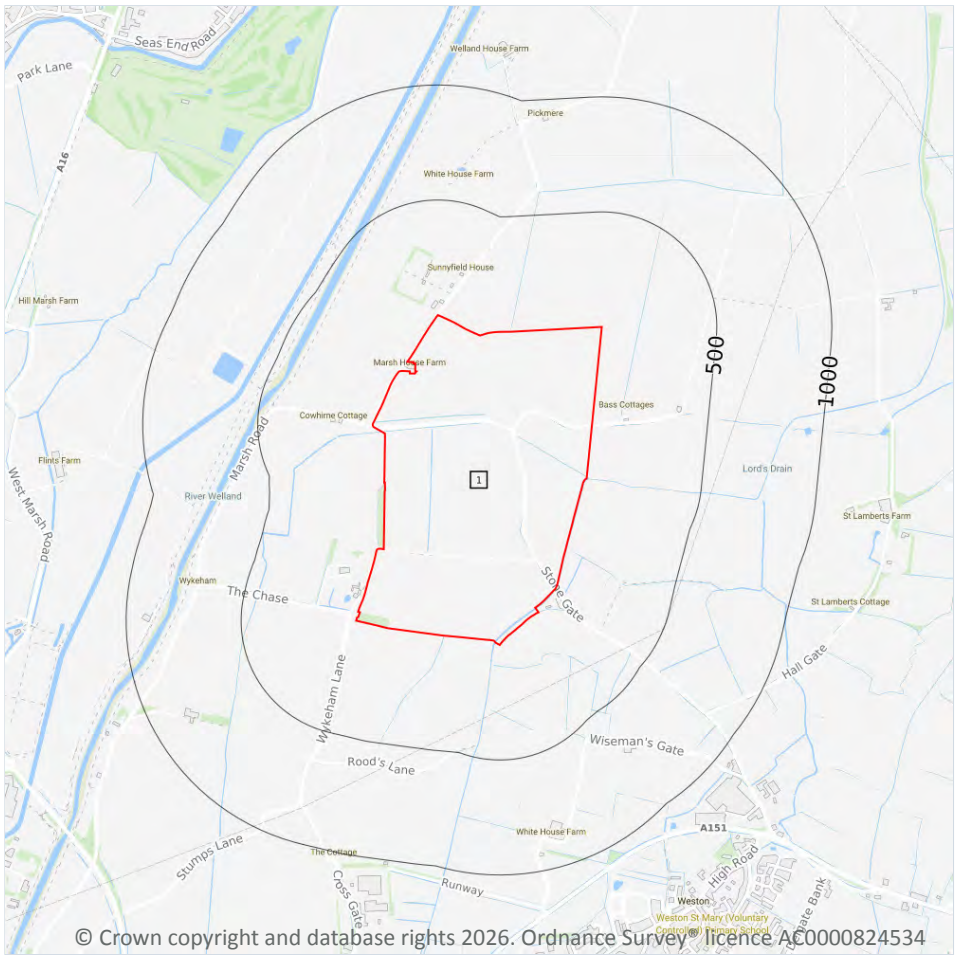
13.4 Limestone Pavement Orders

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 67 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov

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	0

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.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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.

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

14.5 Bedrock geology (10k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

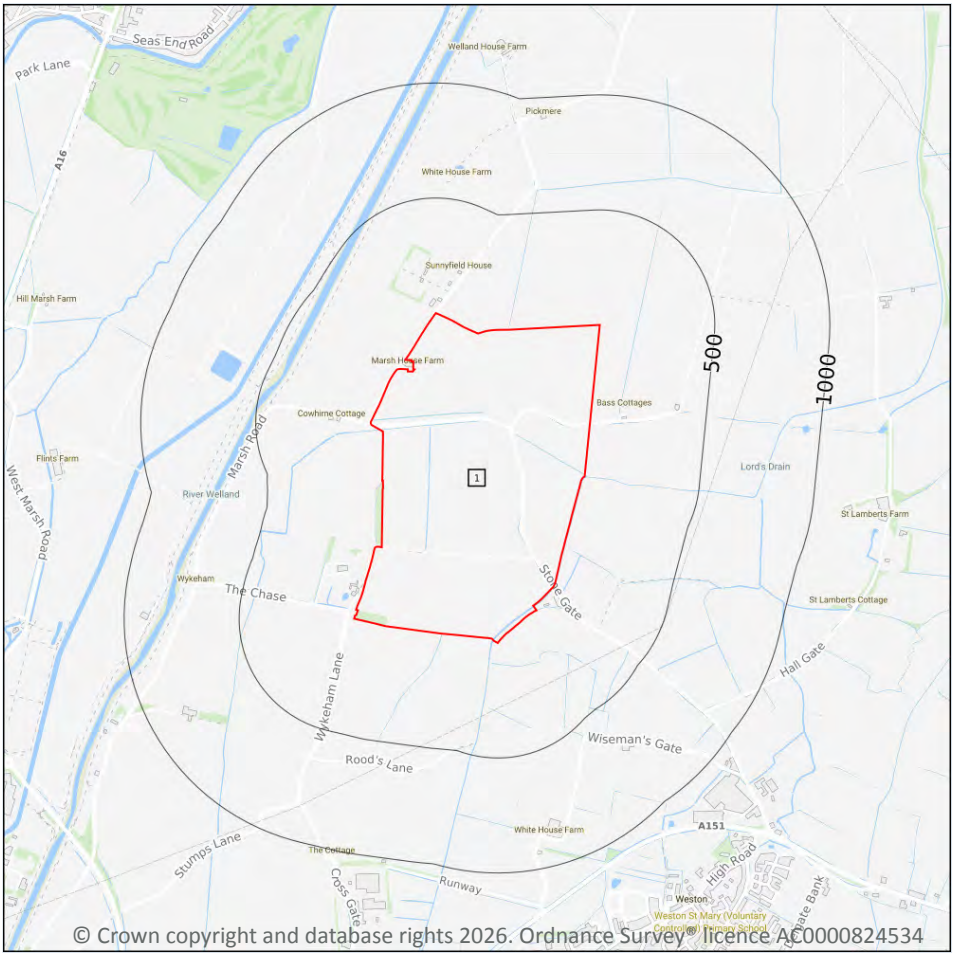
14.6 Bedrock faults and other linear features (10k)

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



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 71 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**EW144_spalding_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	0

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.

This data is sourced from the British Geological Survey.

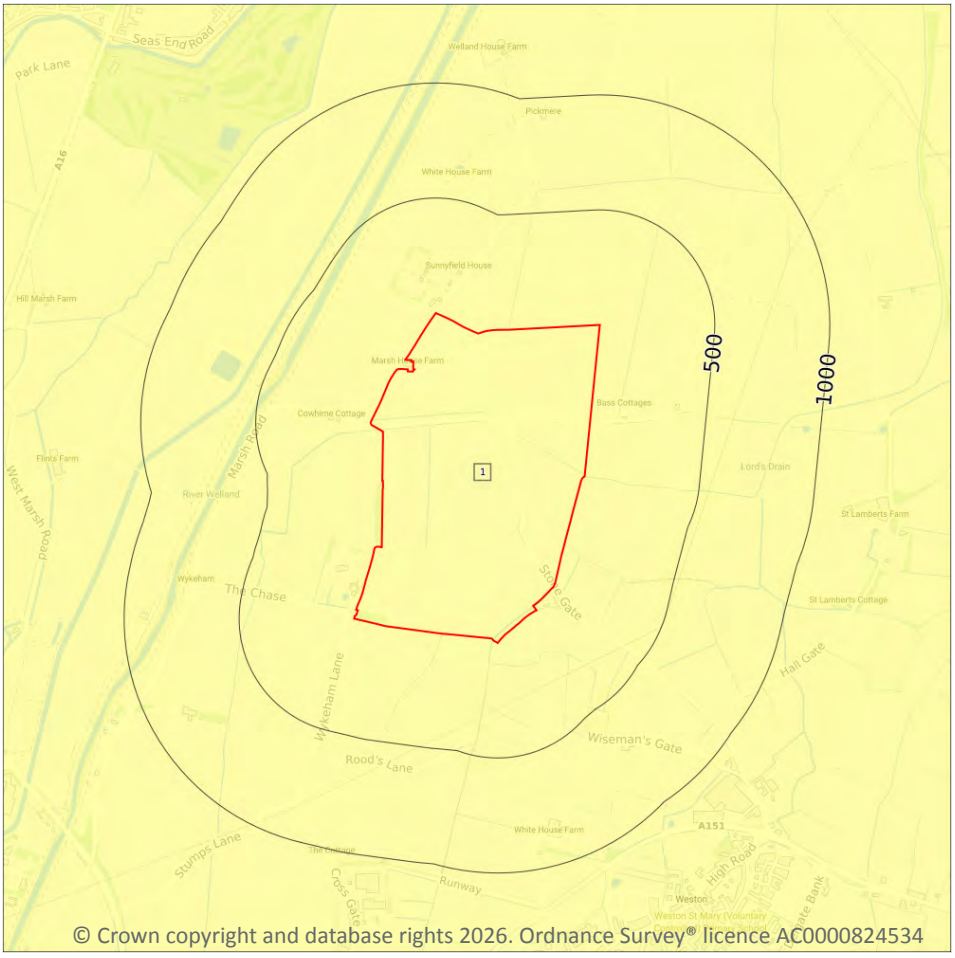
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

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	1

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 73 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TFD-XCZ**	**Tidal flat deposits**	**Clay and silt**

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**Low**	**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.

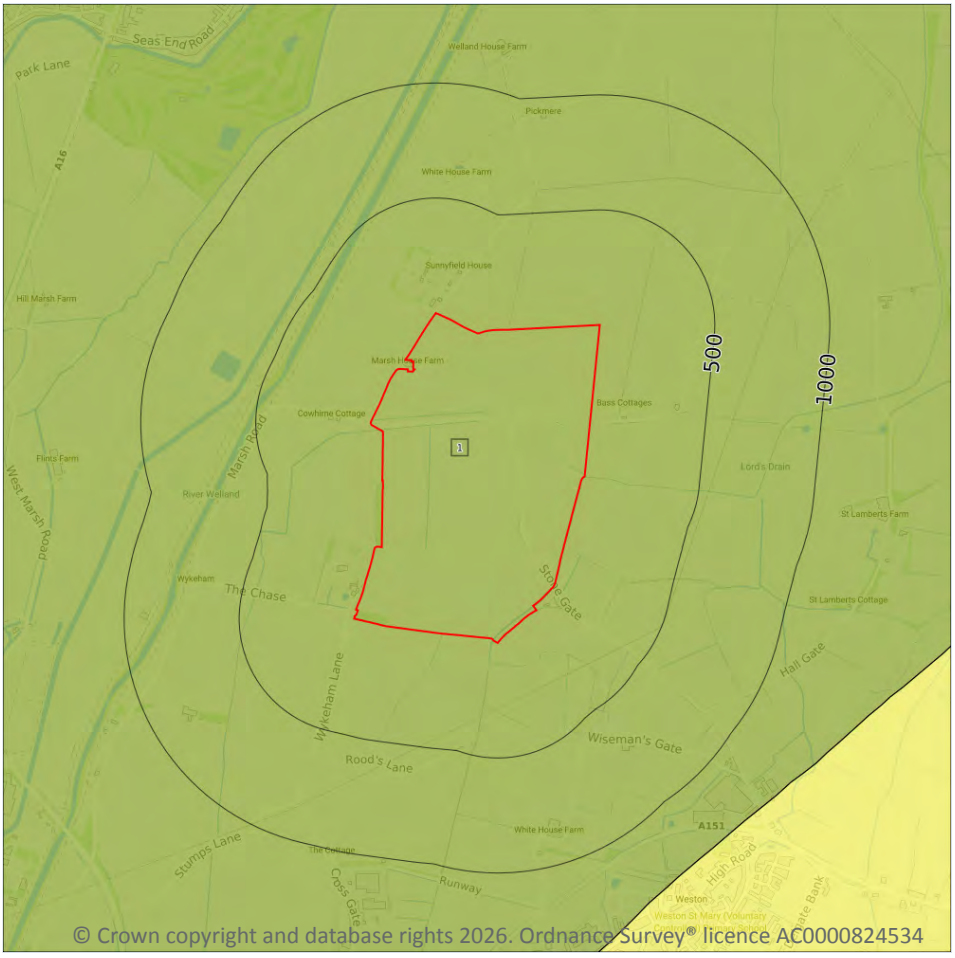
15.7 Landslip permeability (50k)

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	1

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 75 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**OXC-MDST**	**Oxford Clay Formation-Mudstone**	**Callovian**

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1

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**	**Low**	**Very Low**

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

Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	1

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 77 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	**On site**	**528000 327200**	**SPALDING MARSH**	**3.0**	**N**	**473653** ↗

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	1

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 78 >**

Location	Hazard rating	Details
On site	**Low**	**Ground conditions predominantly medium 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	1

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 79 >**

Location	Hazard rating	Details
On site	**Moderate**	**Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.**

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	1

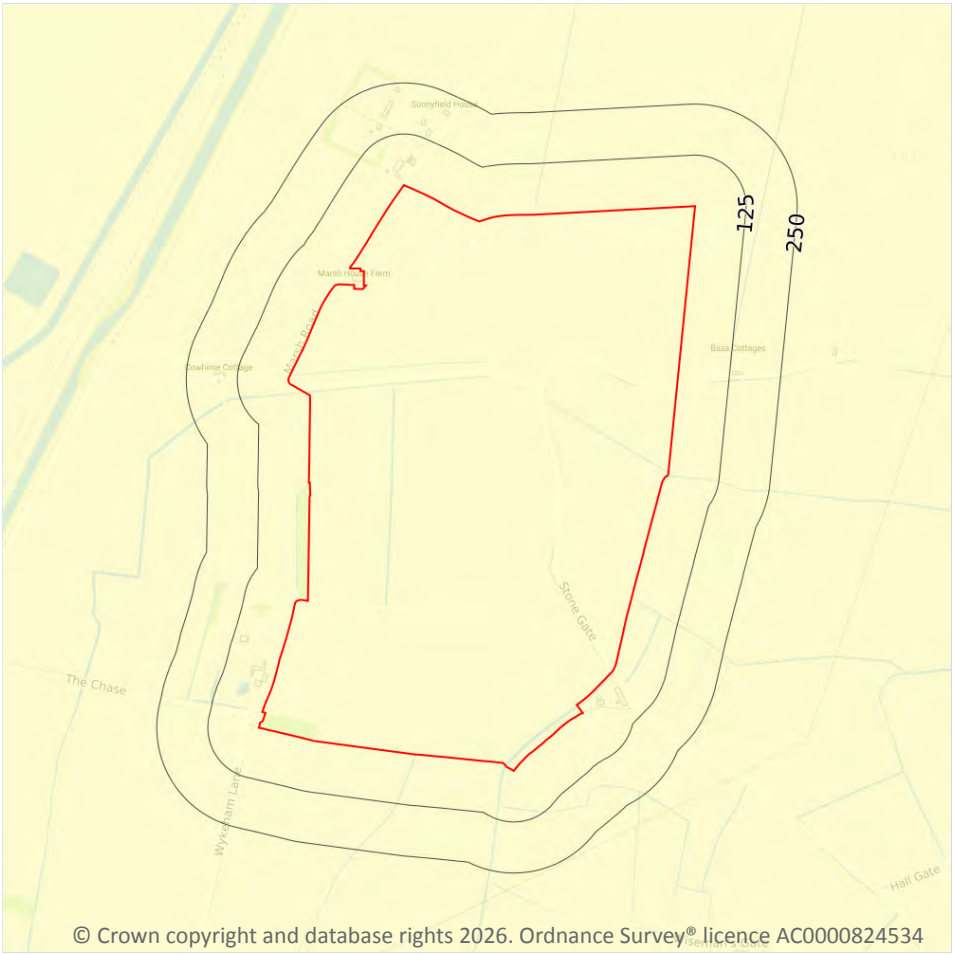
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 80 >**

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

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

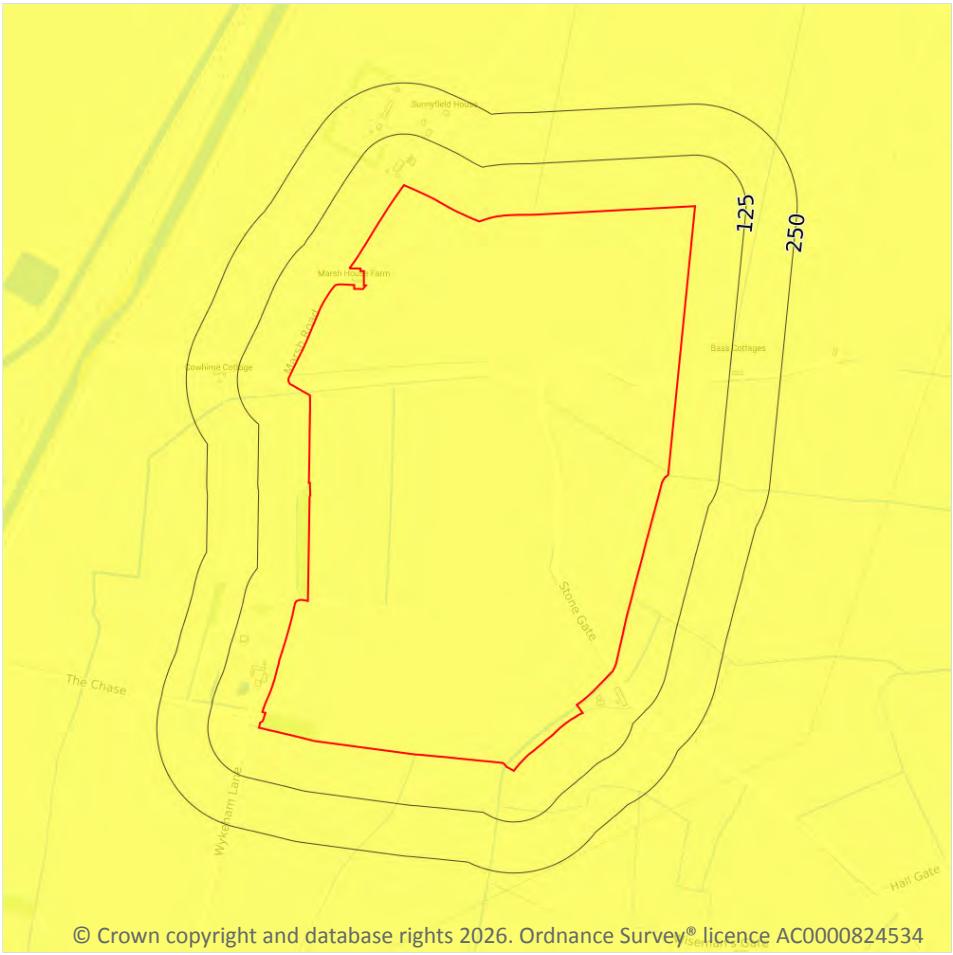
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 81 >**

Location	Hazard rating	Details
On site	**Negligible**	**Deposits with potential to collapse when loaded and saturated are believed not 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	1

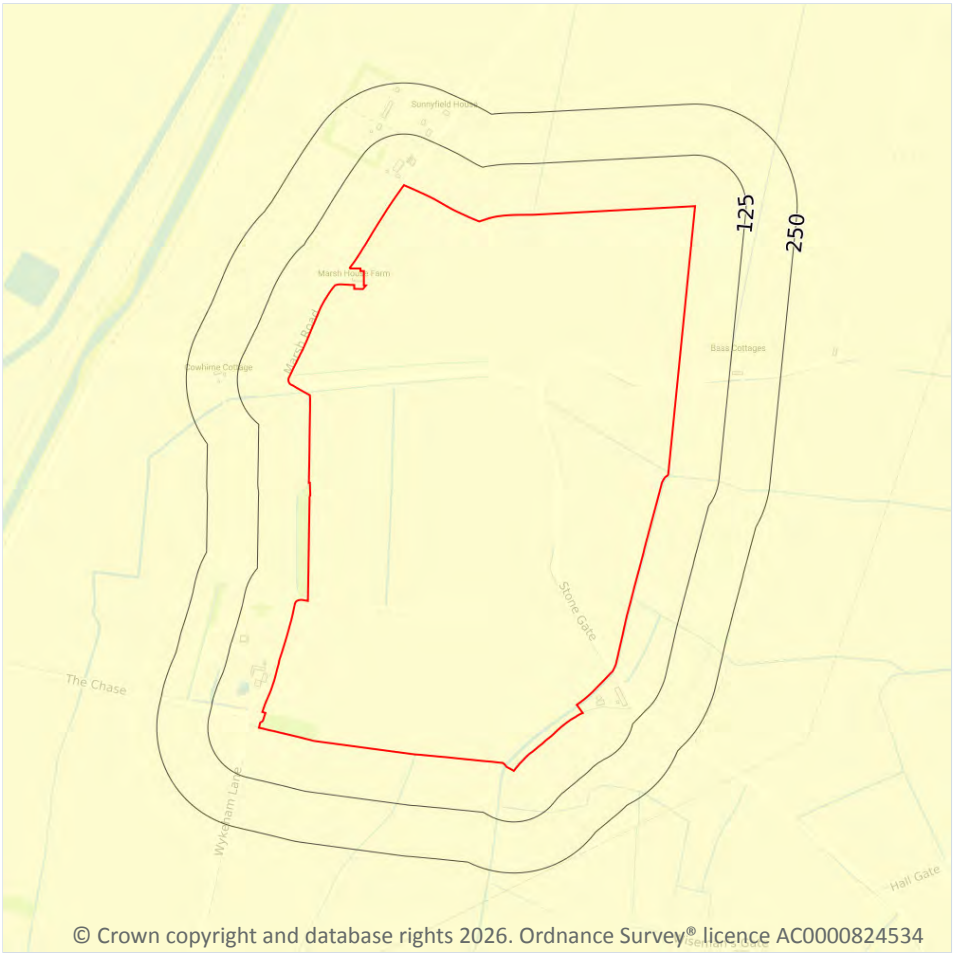
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 82 >**

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.**

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	1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 83 >**

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.**

This data is sourced from the British Geological Survey.

18 Mining and ground workings

Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

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 BritPits

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	7

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

Features are displayed on the Mining and ground workings map on **page 85 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	96m W	Pond	1956	1:10560
2	130m W	Pond	1887	1:10560
A	138m W	Pond	1950	1:10560
A	138m W	Pond	1906	1:10560
A	140m W	Pond	1956	1:10560
A	141m W	Pond	1887	1:10560
3	219m W	Unspecified Ground Workings	1950	1:10560

This is data is sourced from Ordnance Survey®/Groundsure.

18.3 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey®/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	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	0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	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 Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

20 Radon

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 92 >**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m **12**

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 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
33m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m **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.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	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.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey® mapping.

This data is sourced from the Ordnance Survey®.

22.4 Historical railway and tunnel features

Records within 250m	0

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

This data is sourced from Ordnance Survey®/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey® and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m	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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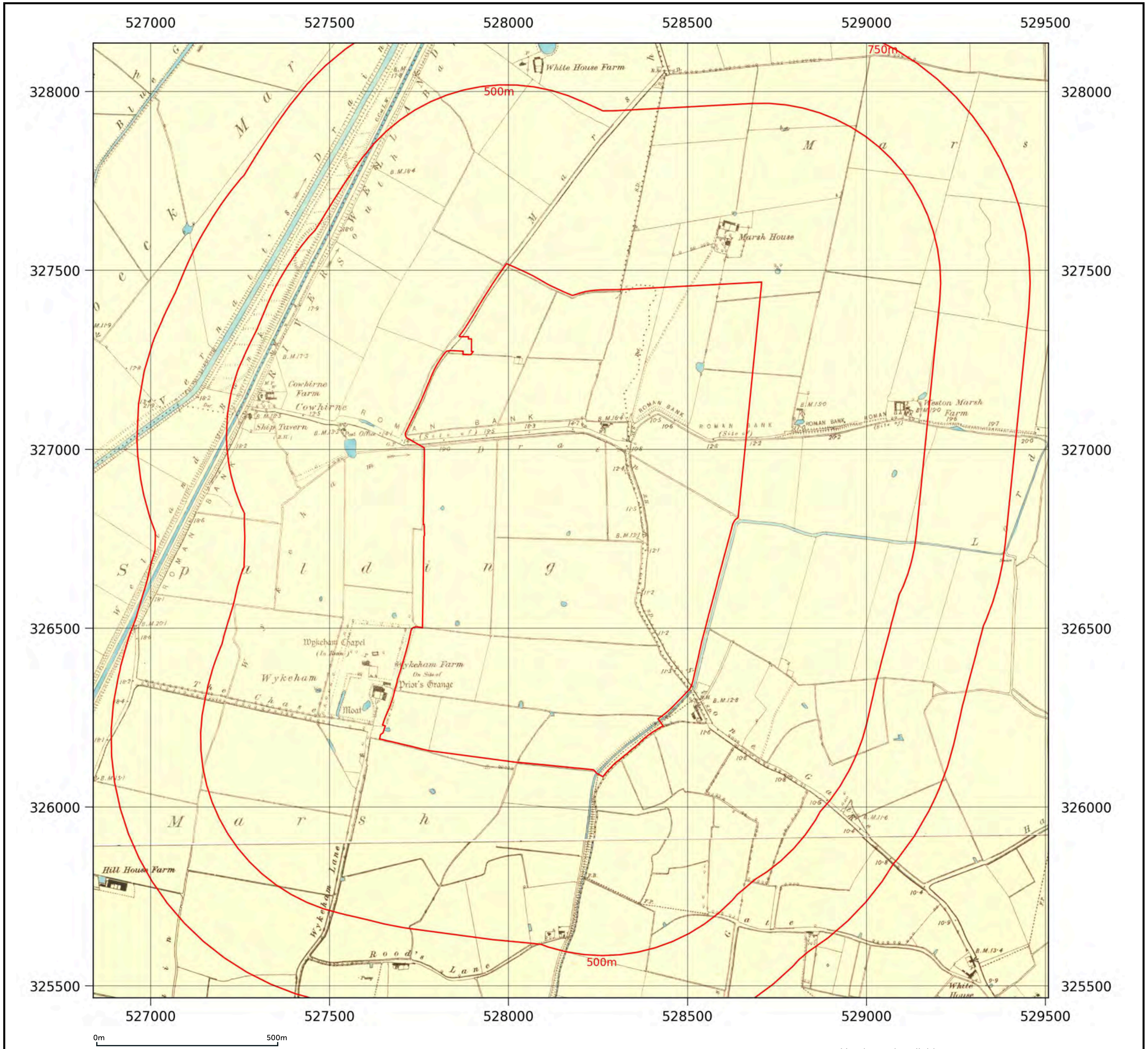

Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1887
Scale:	1:10,560
Printed at:	1:10,560

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info@groundsure.com
01273 257 755

Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1903
Scale:	1:10,560
Printed at:	1:10,560

N
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Date: 1903
Surveyed: 1886
Revised: 1903

Date: 1903
Surveyed: 1886
Revised: 1903

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Map legend available at:
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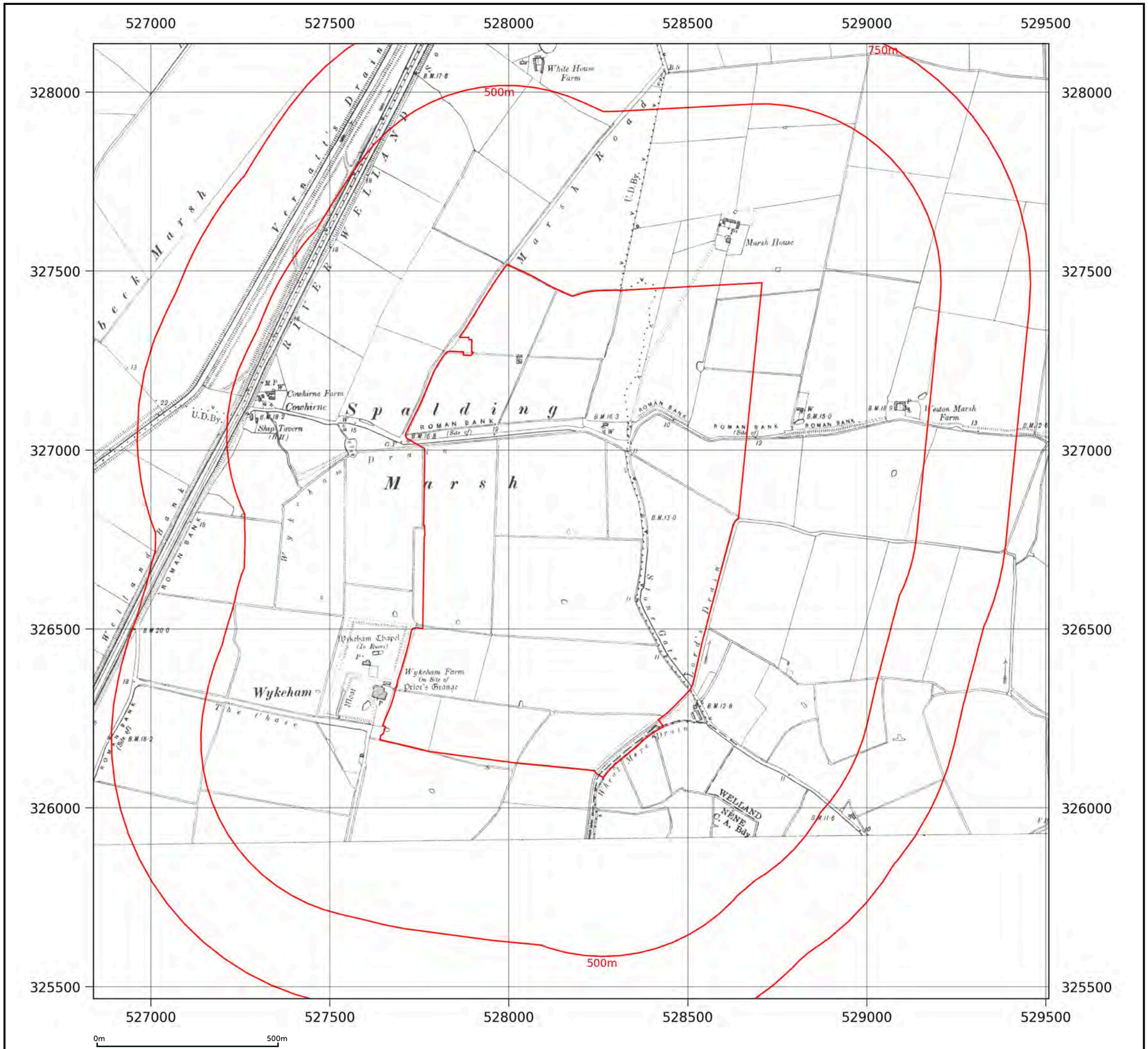

Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1903
Scale:	1:10,560
Printed at:	1:10,560

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1906
Scale:	1:10,560
Printed at:	1:10,560

N
W E
S

Date: 1906
Surveyed: 1886
Revised: 1906
Edition: 1906

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Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1929
Scale:	1:10,560
Printed at:	1:10,560

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Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1929
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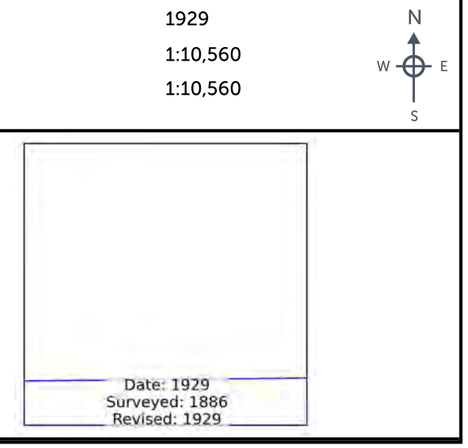
Printed at:	1:10,560



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Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1929
Scale:	1:10,560
Printed at:	1:10,560

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527000 527500 528000 528500 529000 529500

328000 327500 327000 326500 326000 325500

750m
500m
500m

Home Farm
Weston Lane
Road's Lane
F.B.
F.P.
B.M. 12·61
White House

0m 500m

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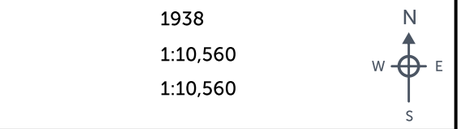
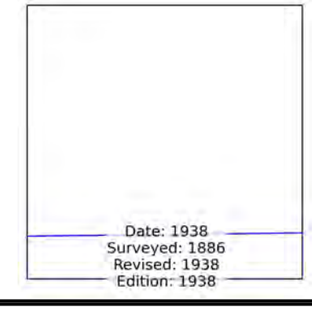
Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1938
Scale:	1:10,560
Printed at:	1:10,560





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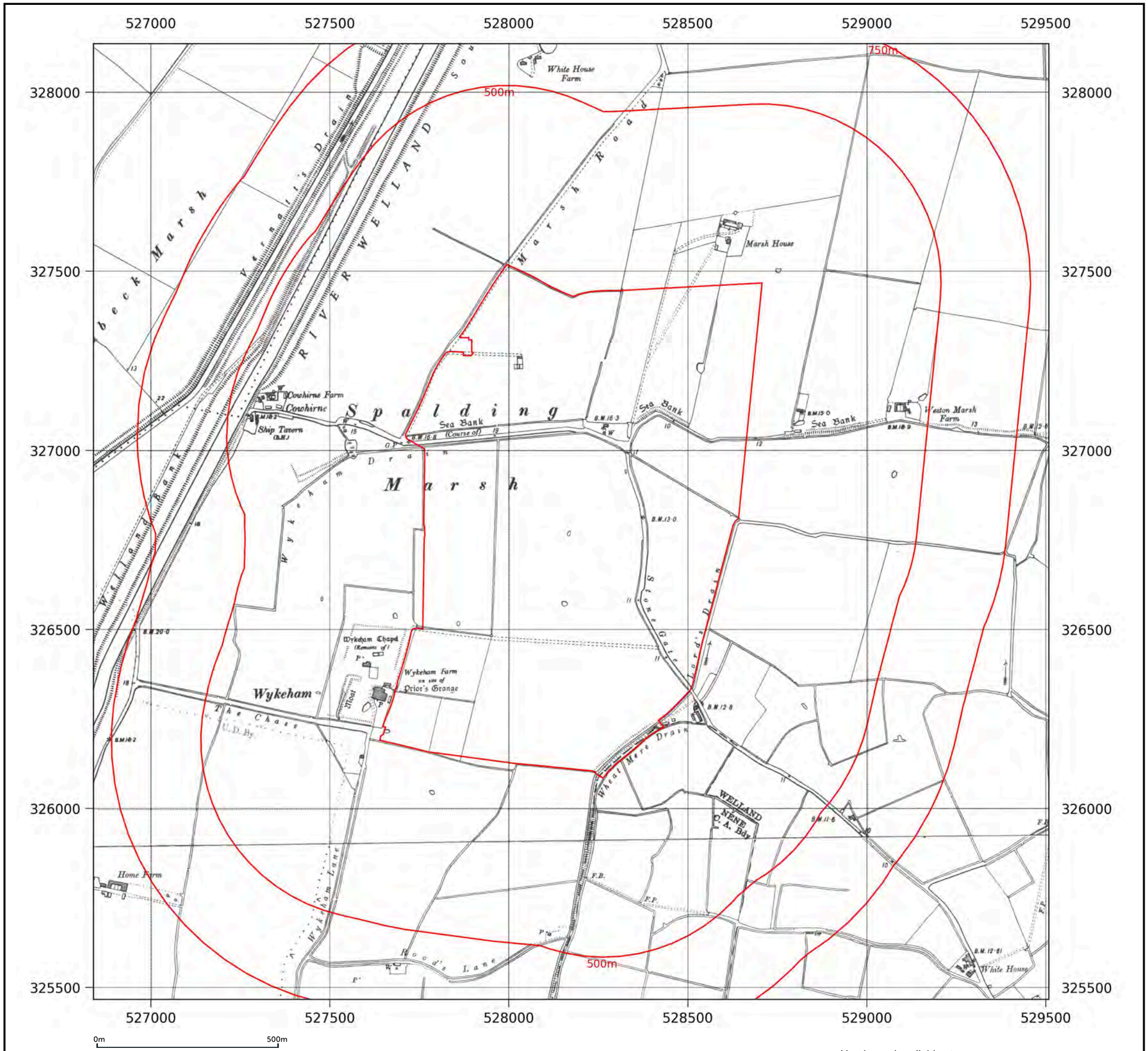

Map legend available at:
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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1950
Scale:	1:10,560
Printed at:	1:10,560

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Date: 1950
Surveyed: 1886
Revised: 1950

Date: 1950
Surveyed: 1886
Revised: 1950
Edition: 1950
Levelled: 1949

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Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	Provisional
Map date:	1956
Scale:	1:10,560
Printed at:	1:10,560

N W E S

Date: 1956
Revised: 1955
Copyright: 1956

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Map legend available at:
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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1975
Scale:	1:10,000
Printed at:	1:10,000

N W E S

Date: 1975
Surveyed: 1972
Revised: 1974
Copyright: 1975
Levelled: 1970

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527000 527500 528000 528500 529000

328000 327500 327000 326500 326000

500m

Nursery
Marsh House
White House Farm
Cowhirne
Weston Marsh Farm
River Welland
Mean High Water
South Bank
Sea Bank
Wykeham Drain
Lord's Drain
Spalding Marsh
Wykeham
Wykeham Chapel (remains of)
Wykeham Farm on site of Prior's Grange
Moat
The Chase
Shepherds Farm
Drains
Stone Gate
Wiseman's Gate
Wykeham Lane
Farm
White Hous

0m 500m

Map legend available at:
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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1989
Scale:	1:10,000
Printed at:	1:10,000

N W E S

Date: 1989
Surveyed: 1987
Revised: 1989

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	2001
Scale:	1:10,000
Printed at:	1:10,000

N W E S

Date: 2001

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	2010
Scale:	1:10,000
Printed at:	1:10,000

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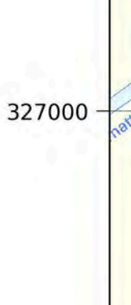

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Map legend available at:
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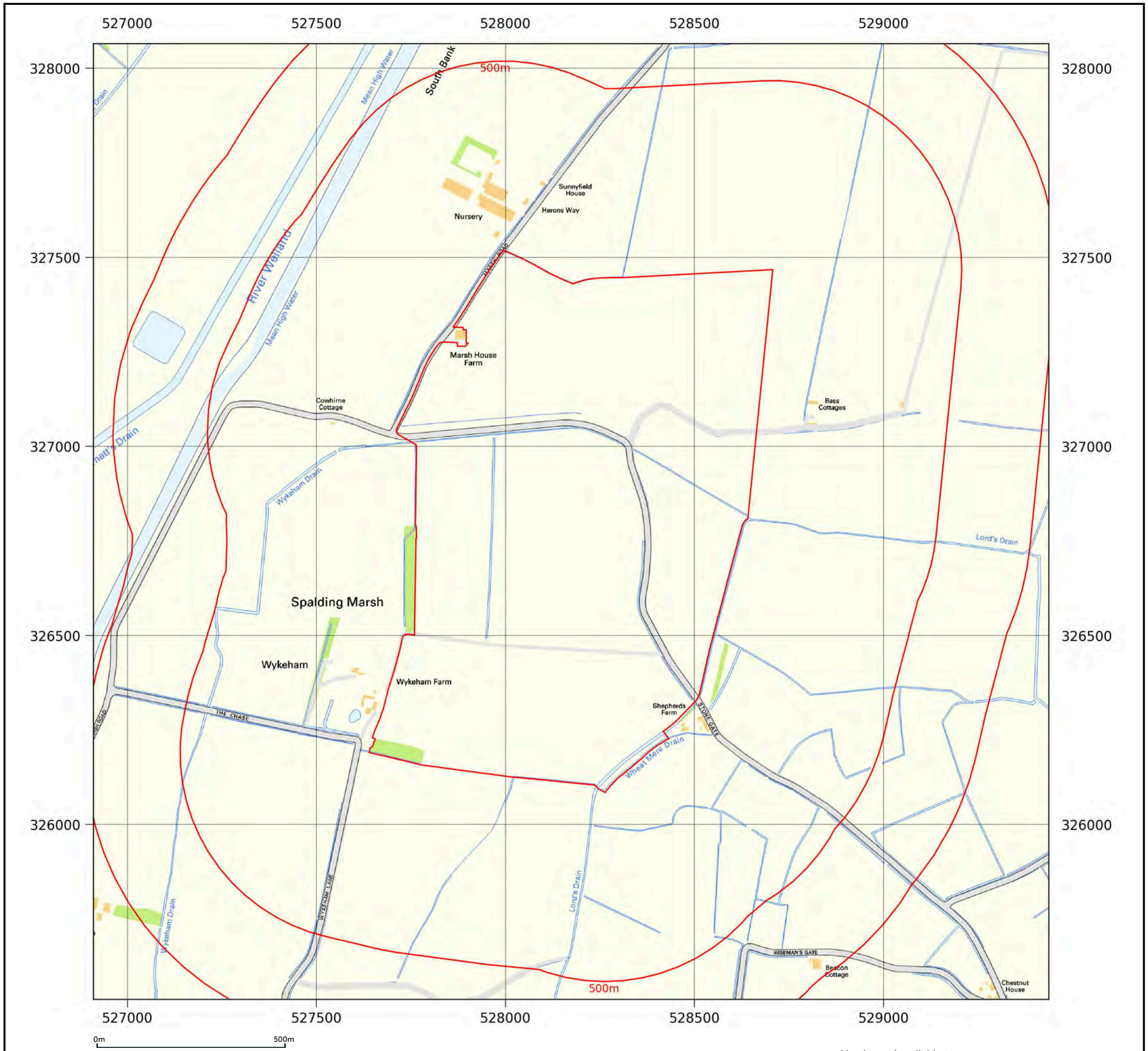

Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	2015
Scale:	1:10,000
Printed at:	1:10,000

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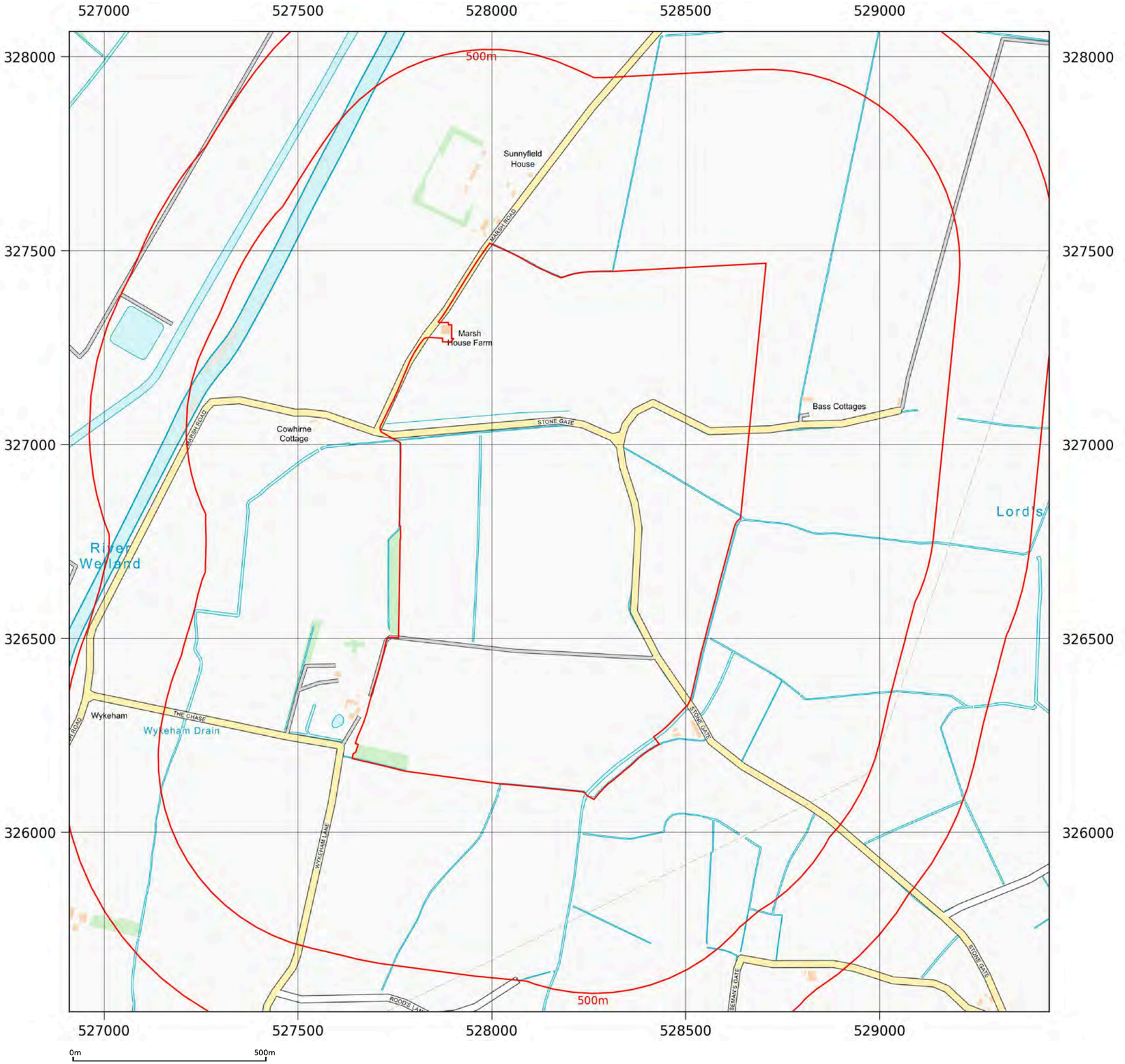

Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	2025
Scale:	1:10,000
Printed at:	1:10,000

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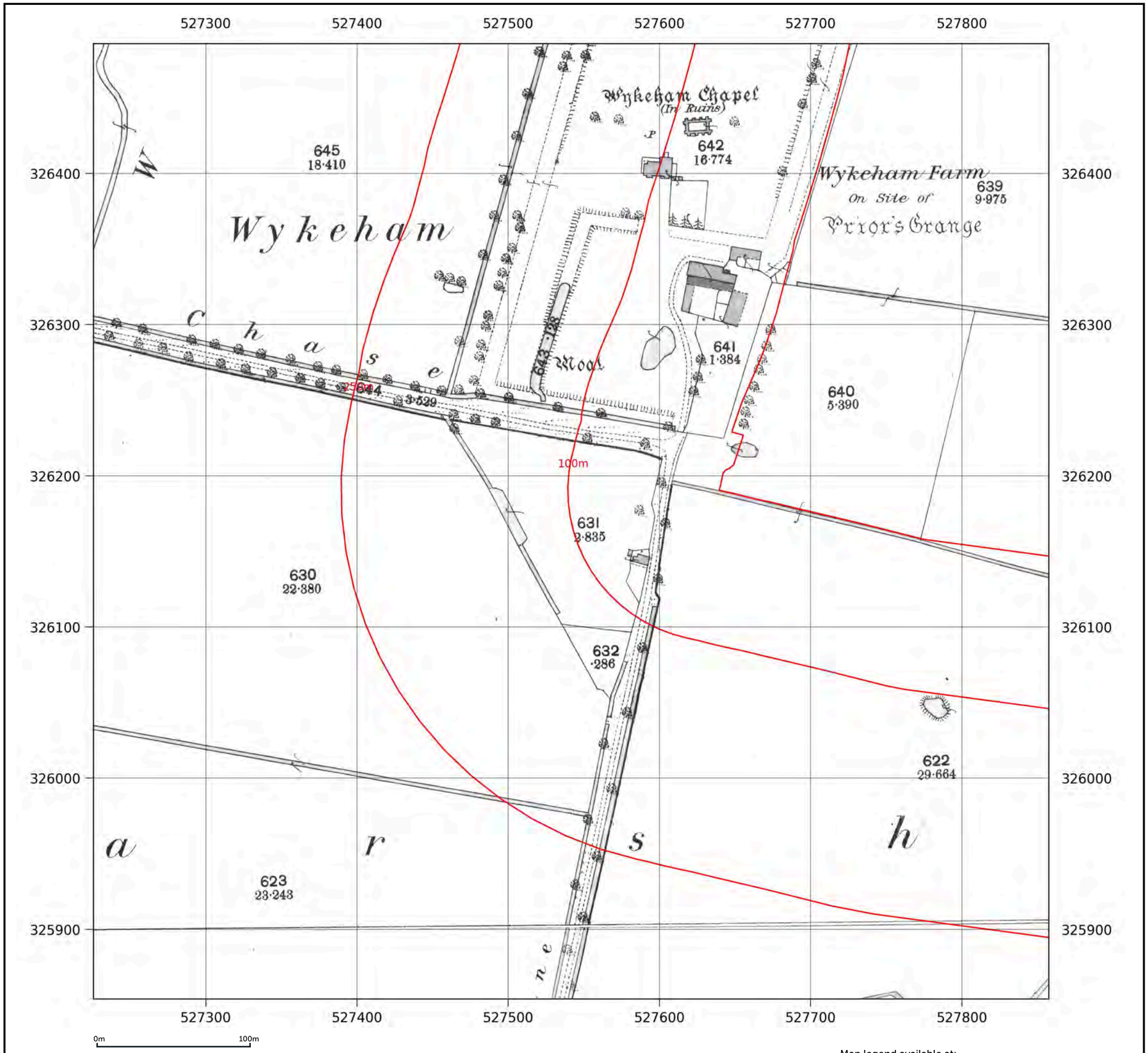

Map legend available at:
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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1888
Scale:	1:2,500
Printed at:	1:2,500

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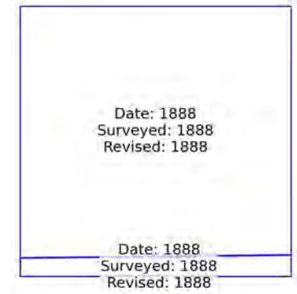

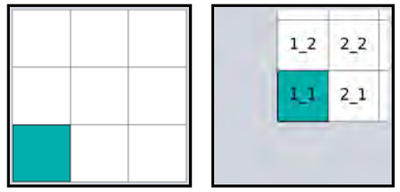

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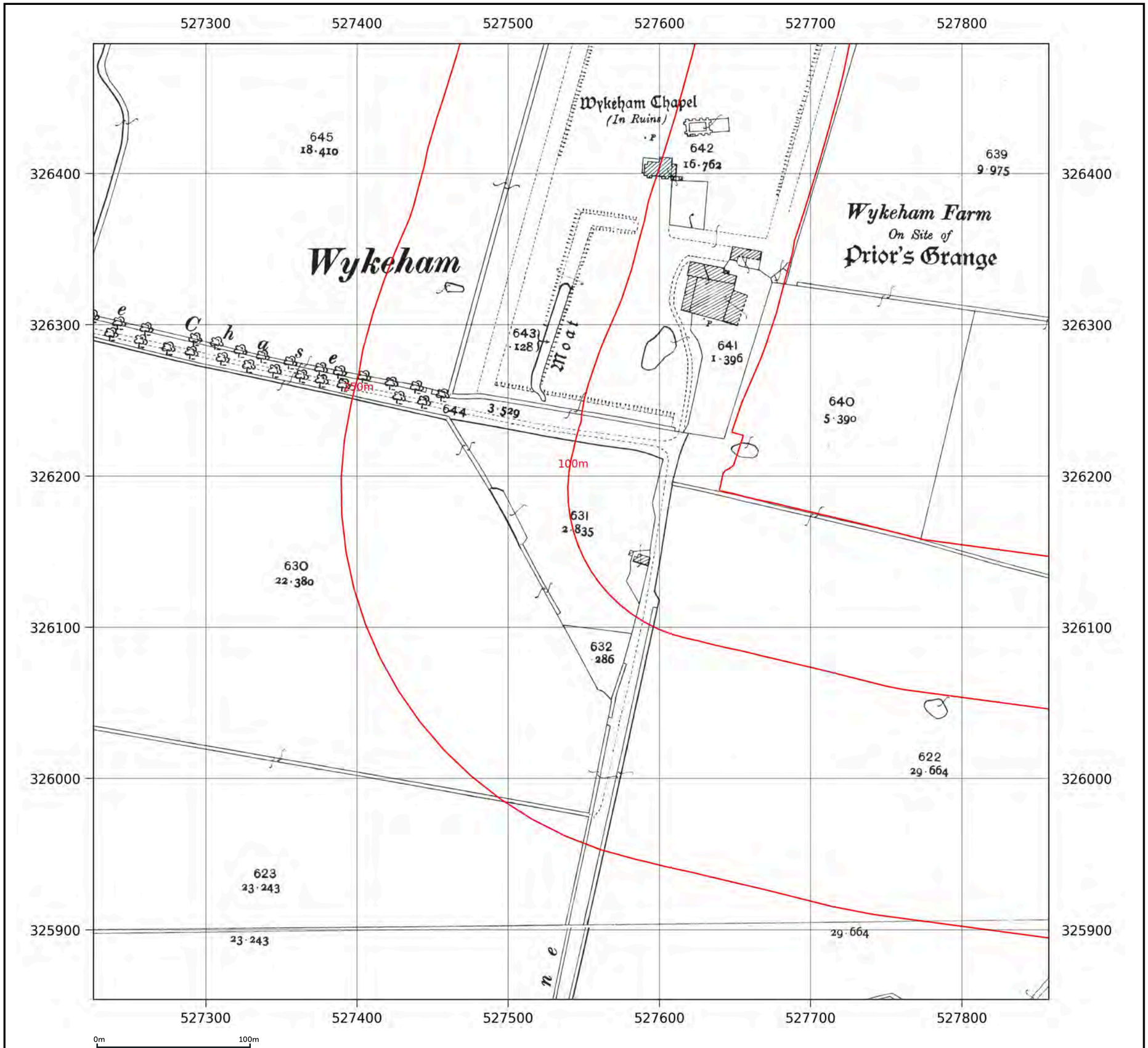

Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

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Scale:	1:2,500
Printed at:	1:2,500

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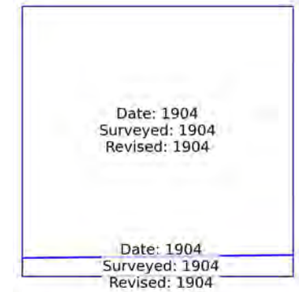

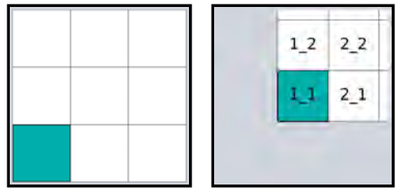

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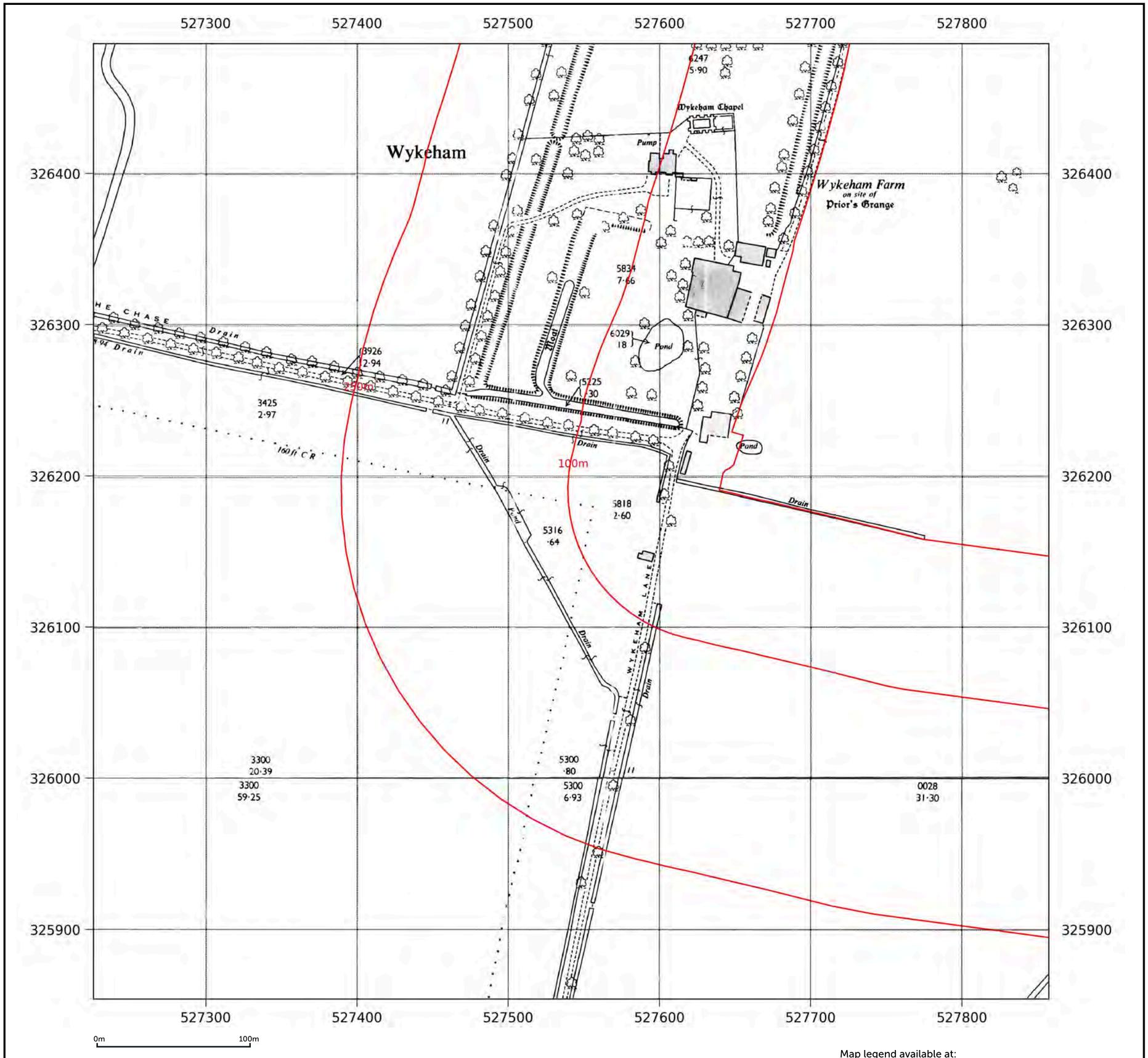

Map legend available at:
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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1969
Scale:	1:2,500
Printed at:	1:2,500

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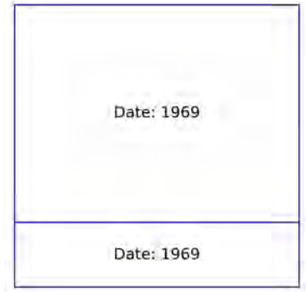

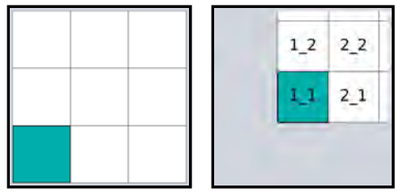

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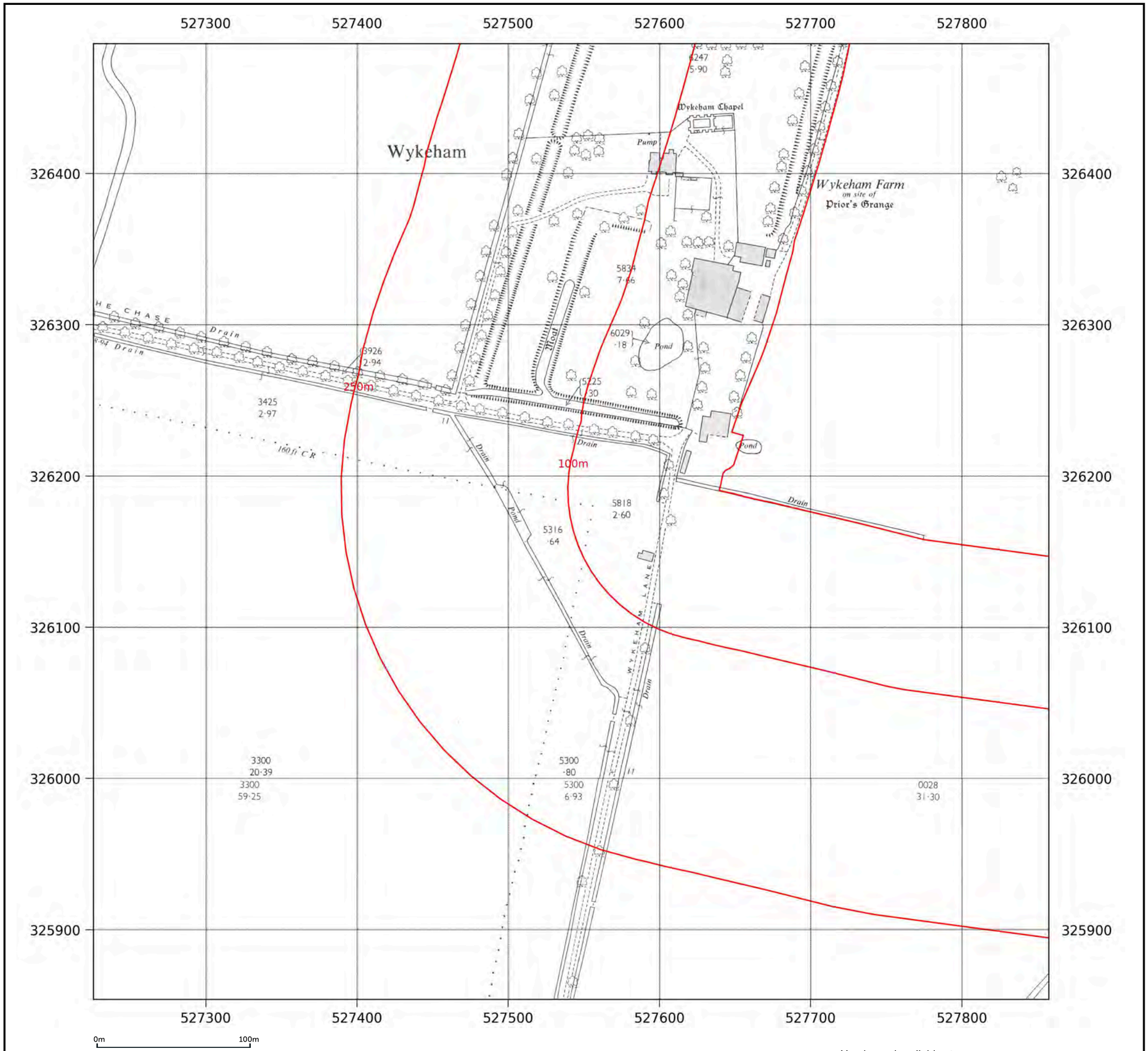

Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1969
Scale:	1:2,500
Printed at:	1:2,500

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Date: 1969
Surveyed: 1967
Revised: 1967
Copyright: 1969
Levelled: 1965

Date: 1969
Surveyed: 1967
Revised: 1967
Copyright: 1969
Levelled: 1965

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Map Insight

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Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1987
Scale:	1:2,500
Printed at:	1:2,500

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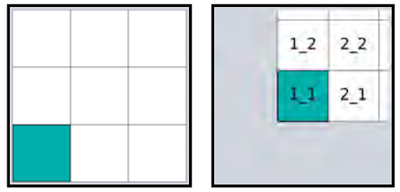

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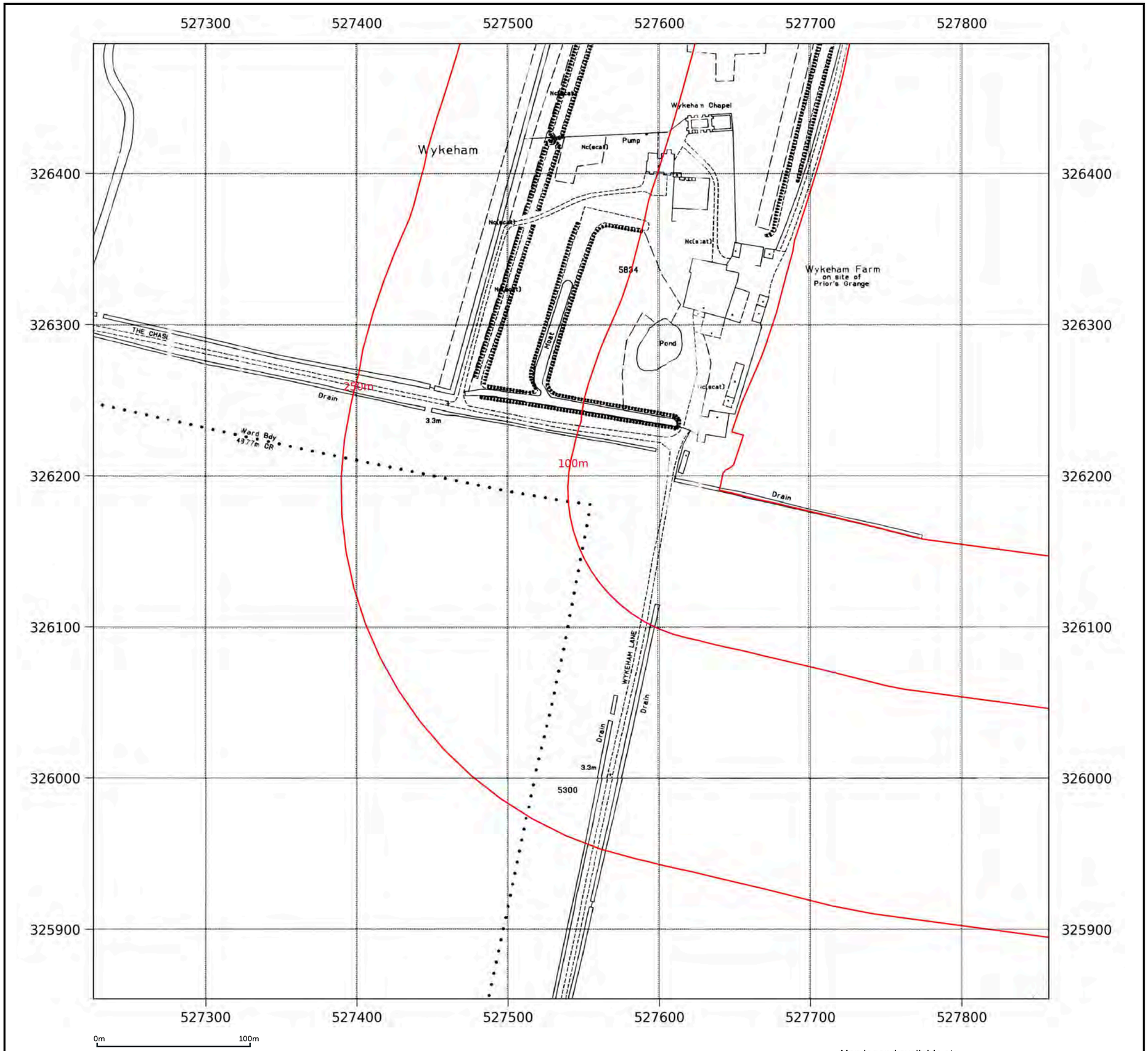

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1995
Scale:	1:2,500
Printed at:	1:2,500

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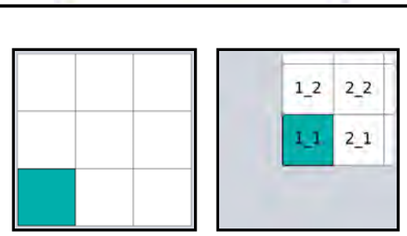

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1888
Scale:	1:2,500
Printed at:	1:2,500

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Date: 1888
Surveyed: 1888
Revised: 1888

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Map legend available at:
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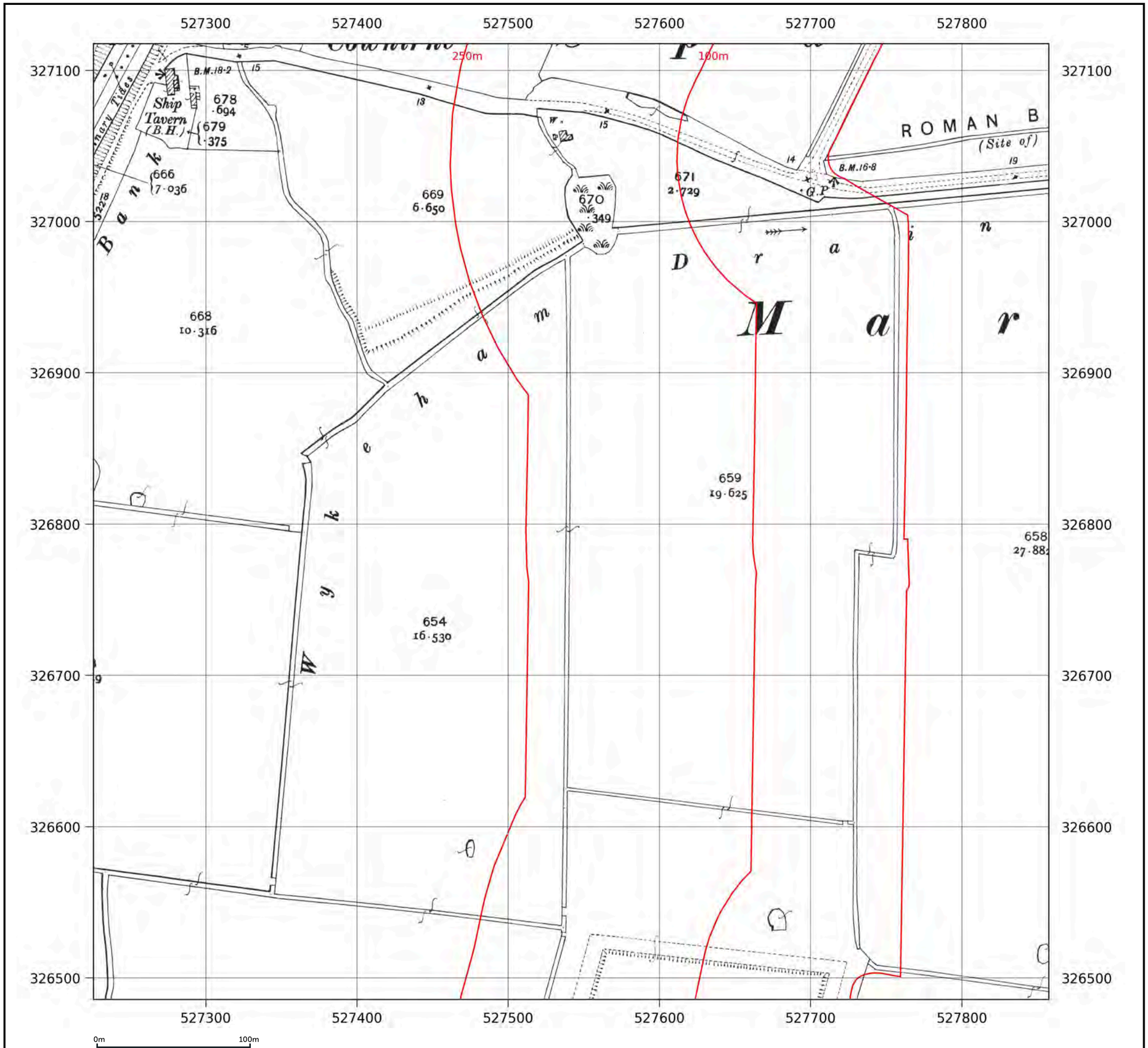

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1904
Scale:	1:2,500
Printed at:	1:2,500

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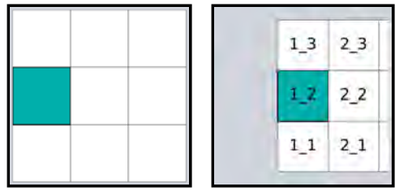
Date: 1904
Surveyed: 1904
Revised: 1904



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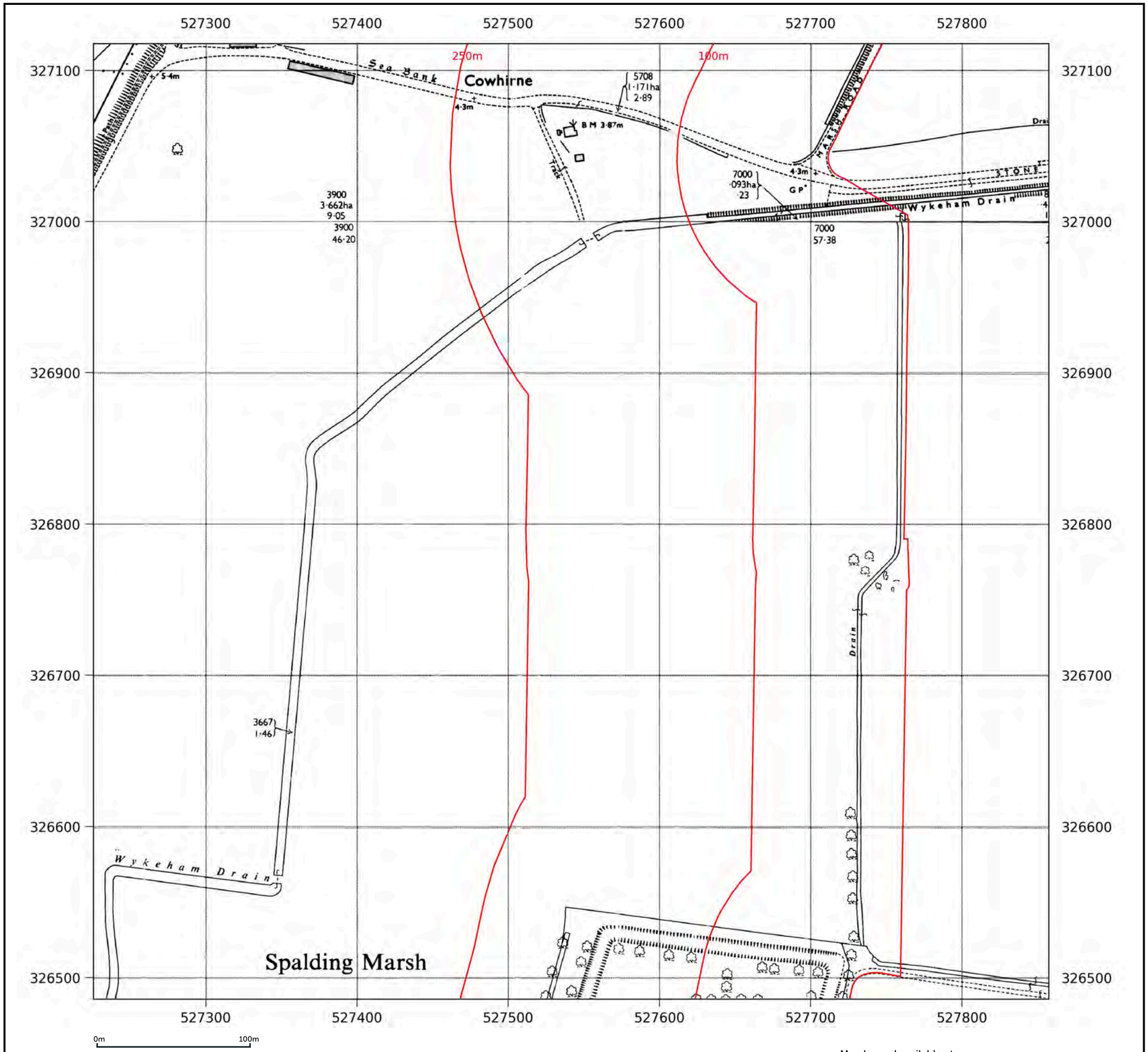
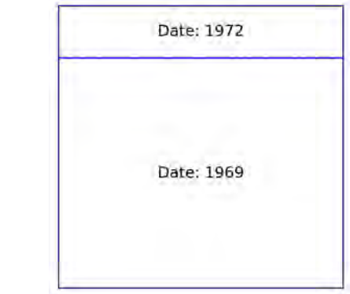
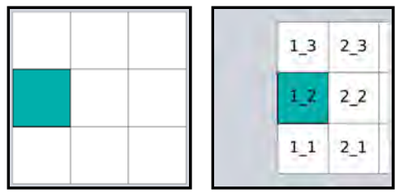
Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1969-1972
Scale:	1:2,500
Printed at:	1:2,500







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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1969-1972
Scale:	1:2,500
Printed at:	1:2,500

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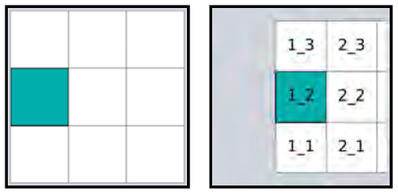

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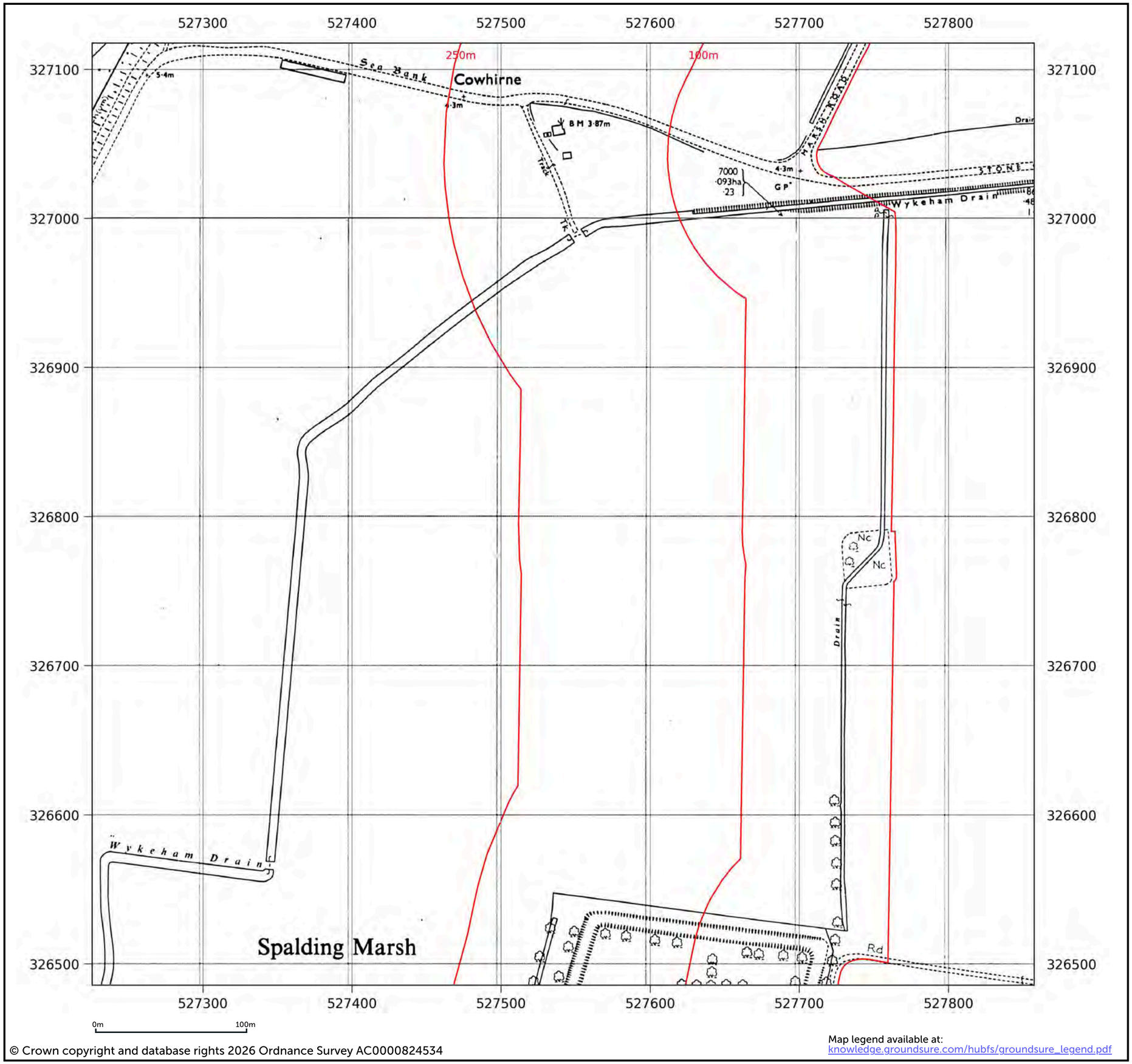

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1987
Scale:	1:2,500
Printed at:	1:2,500

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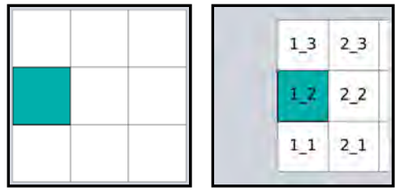
Date: 1987
Surveyed: 1965
Revised: 1986
Copyright: 1987
Levelled: 1965

Date: 1987
Surveyed: 1965
Revised: 1986
Copyright: 1987
Levelled: 1965



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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1995
Scale:	1:2,500
Printed at:	1:2,500

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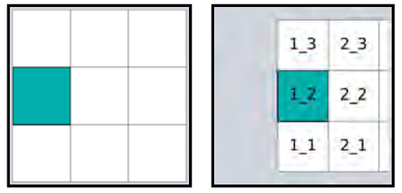
Date: 1995
Copyright: 1995

Date: 1995
Copyright: 1995



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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1888
Scale:	1:2,500
Printed at:	1:2,500

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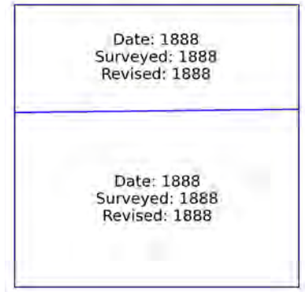

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1904
Scale:	1:2,500
Printed at:	1:2,500

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Date: 1904
Surveyed: 1904
Revised: 1904

Date: 1904
Surveyed: 1904
Revised: 1904

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Map legend available at:
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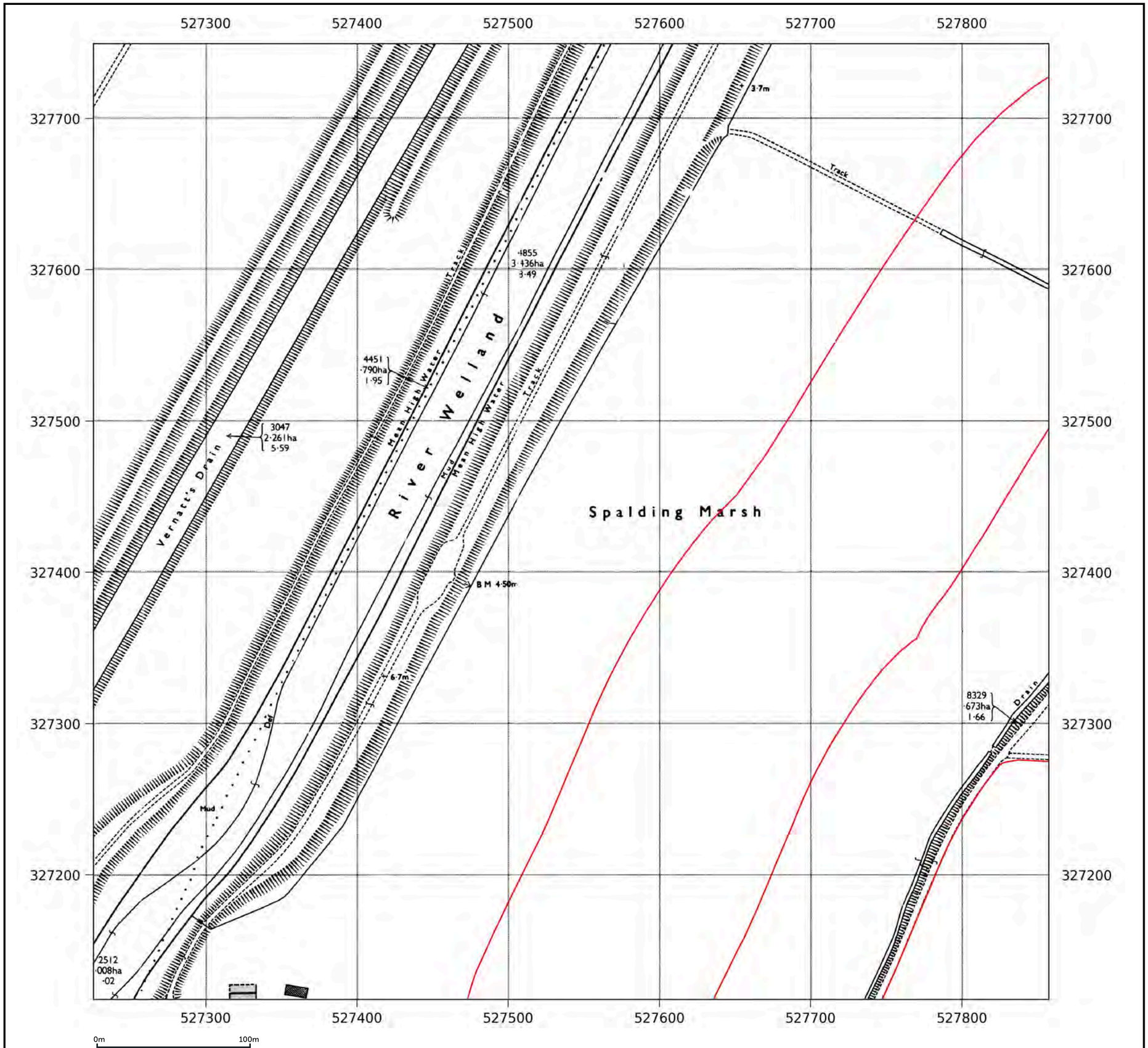

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1972
Scale:	1:2,500
Printed at:	1:2,500

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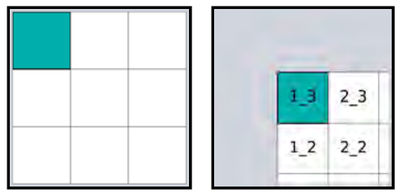

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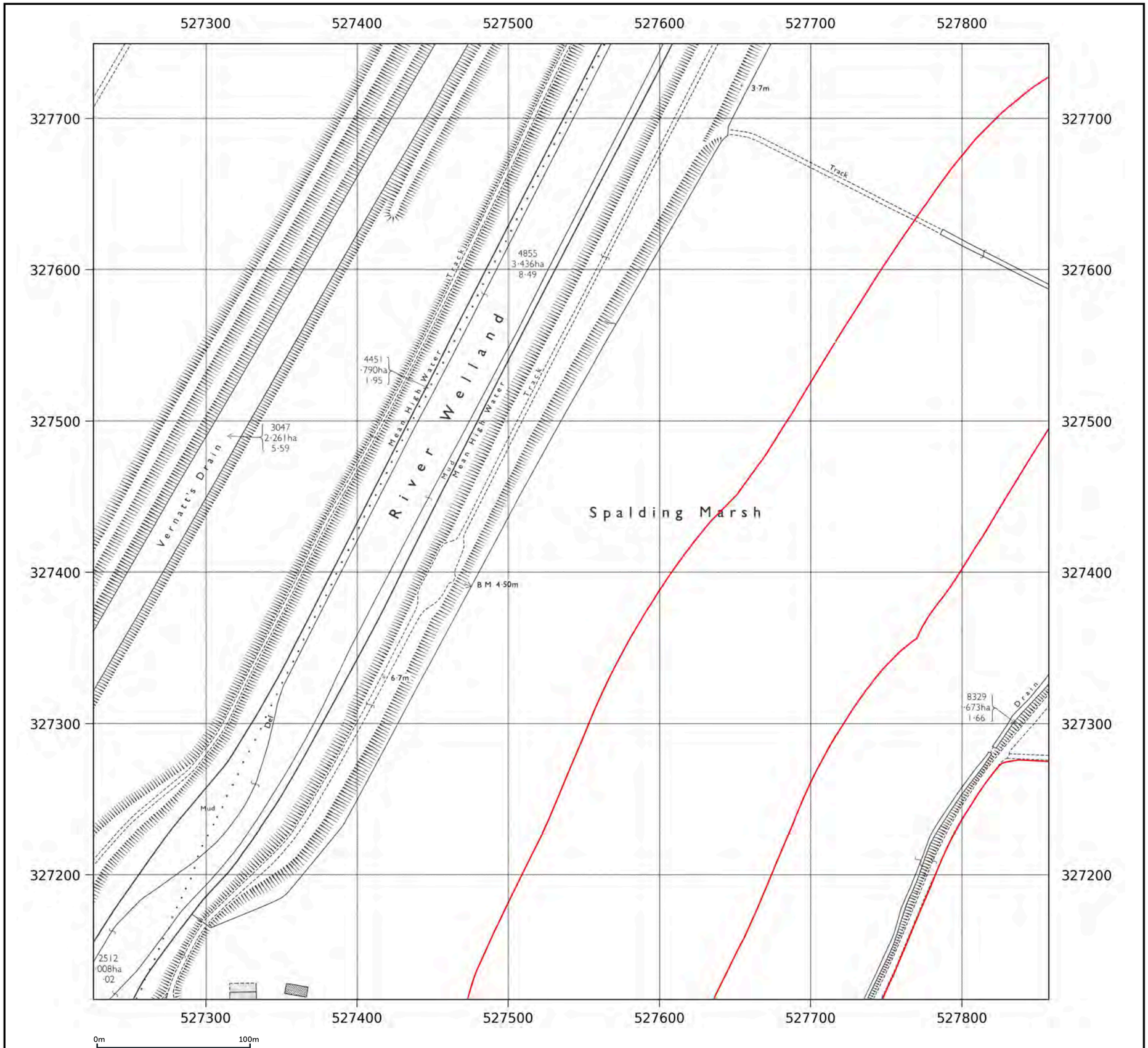

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1972
Scale:	1:2,500
Printed at:	1:2,500

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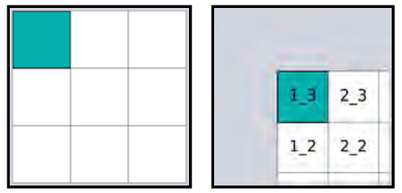
Date: 1972
Surveyed: 1971
Revised: 1971
Copyright: 1972
Levelled: 1965



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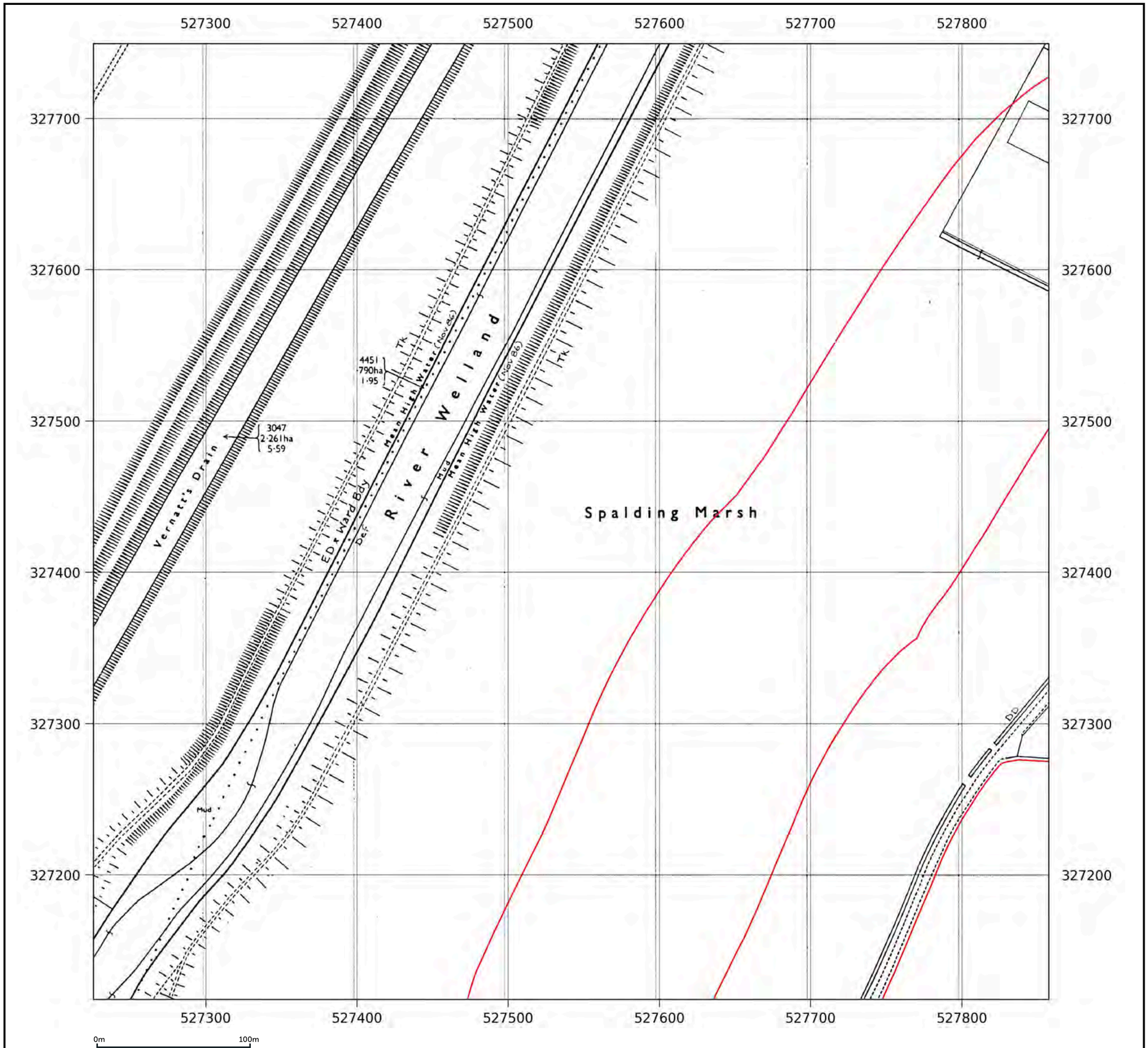

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Map Insight

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Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1987
Scale:	1:2,500
Printed at:	1:2,500

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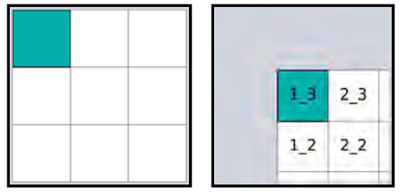
Date: 1987
Surveyed: 1965
Revised: 1986
Copyright: 1987
Levelled: 1965



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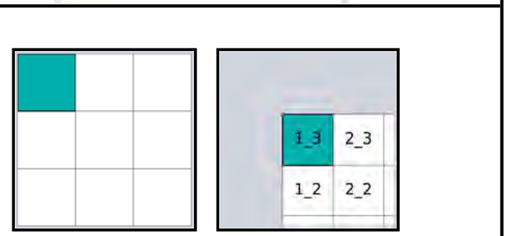
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1995
Scale:	1:2,500
Printed at:	1:2,500



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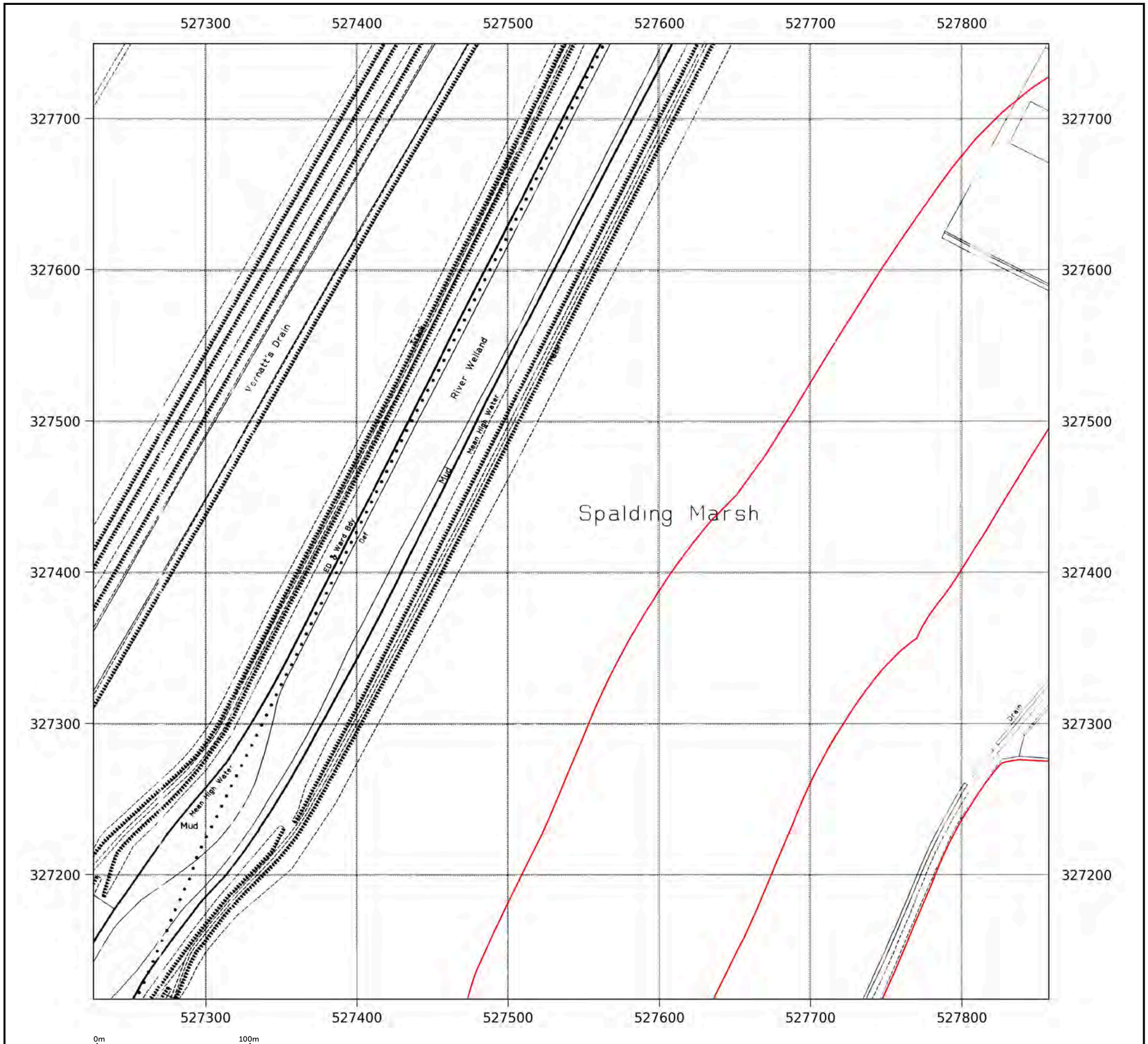

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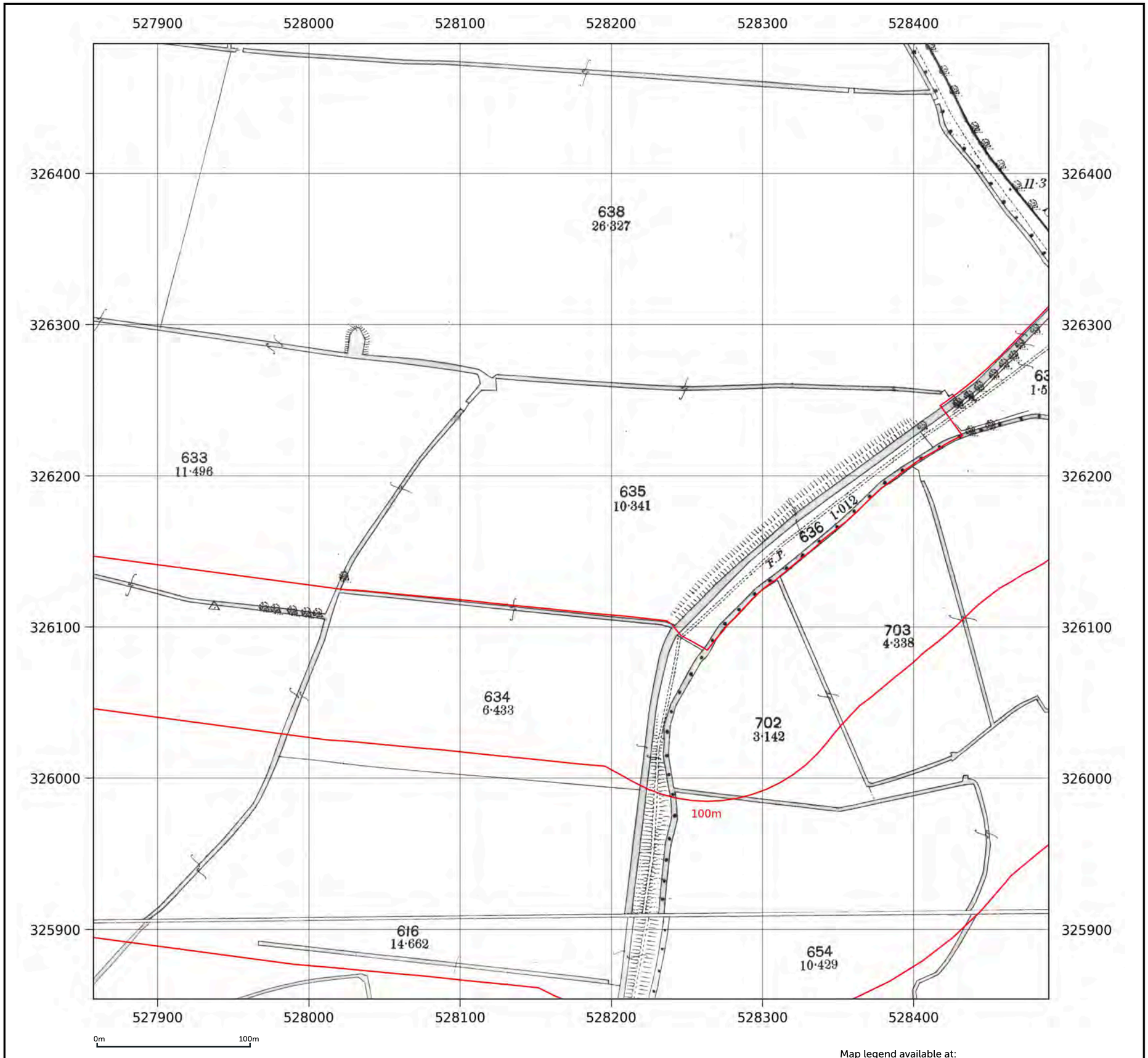

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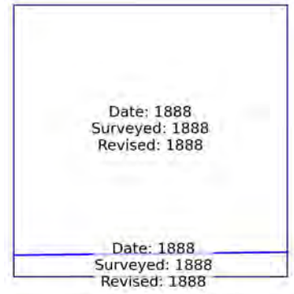
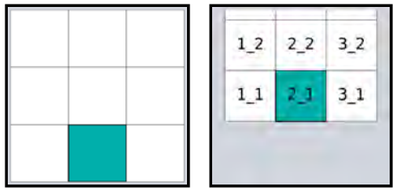
Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1888
Scale:	1:2,500
Printed at:	1:2,500





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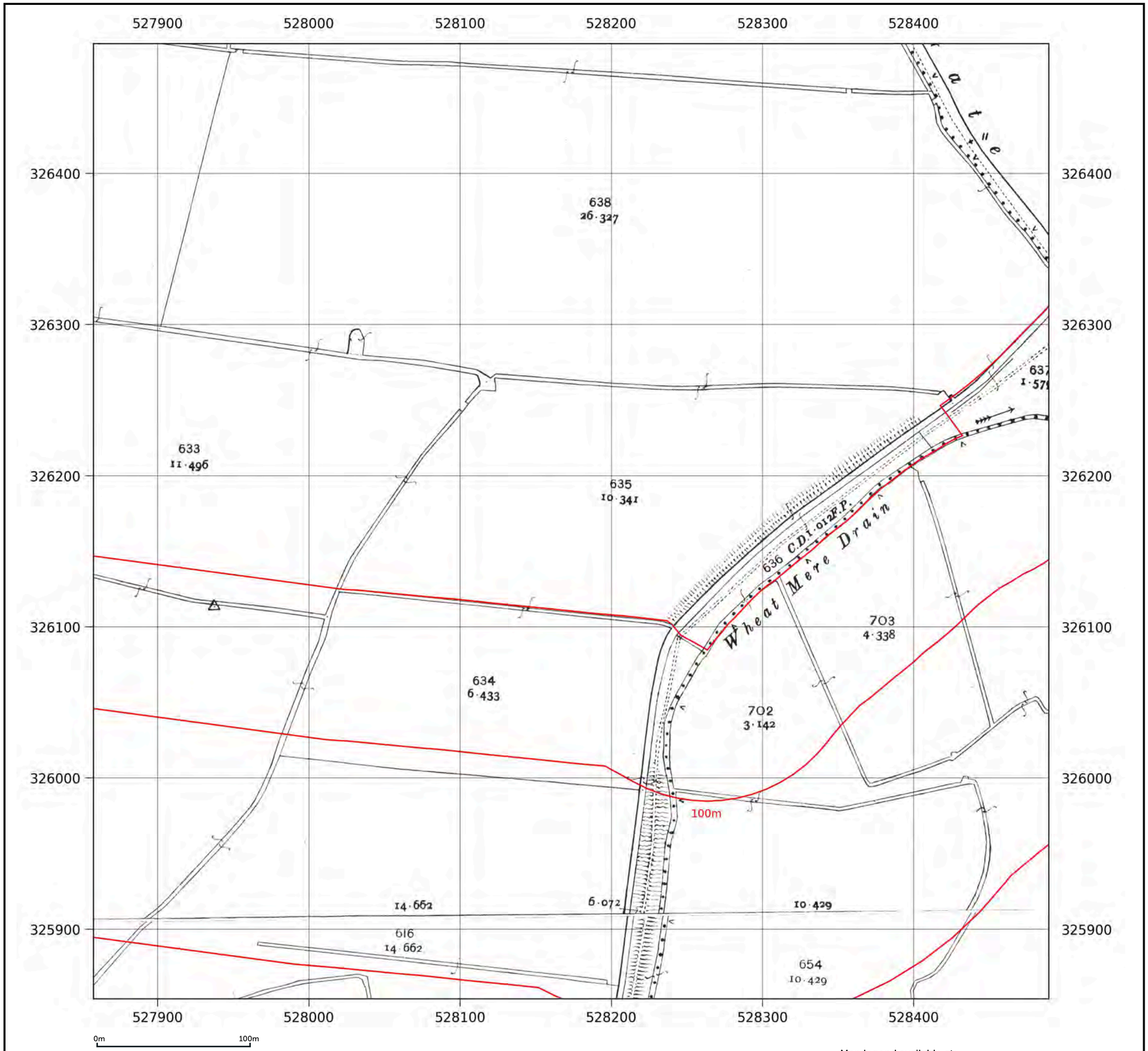

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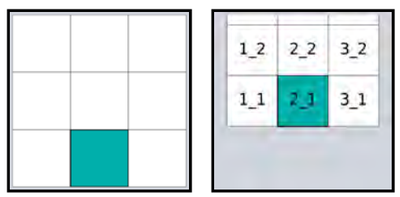
Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1904
Scale:	1:2,500
Printed at:	1:2,500



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Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1968-1969
Scale:	1:2,500
Printed at:	1:2,500

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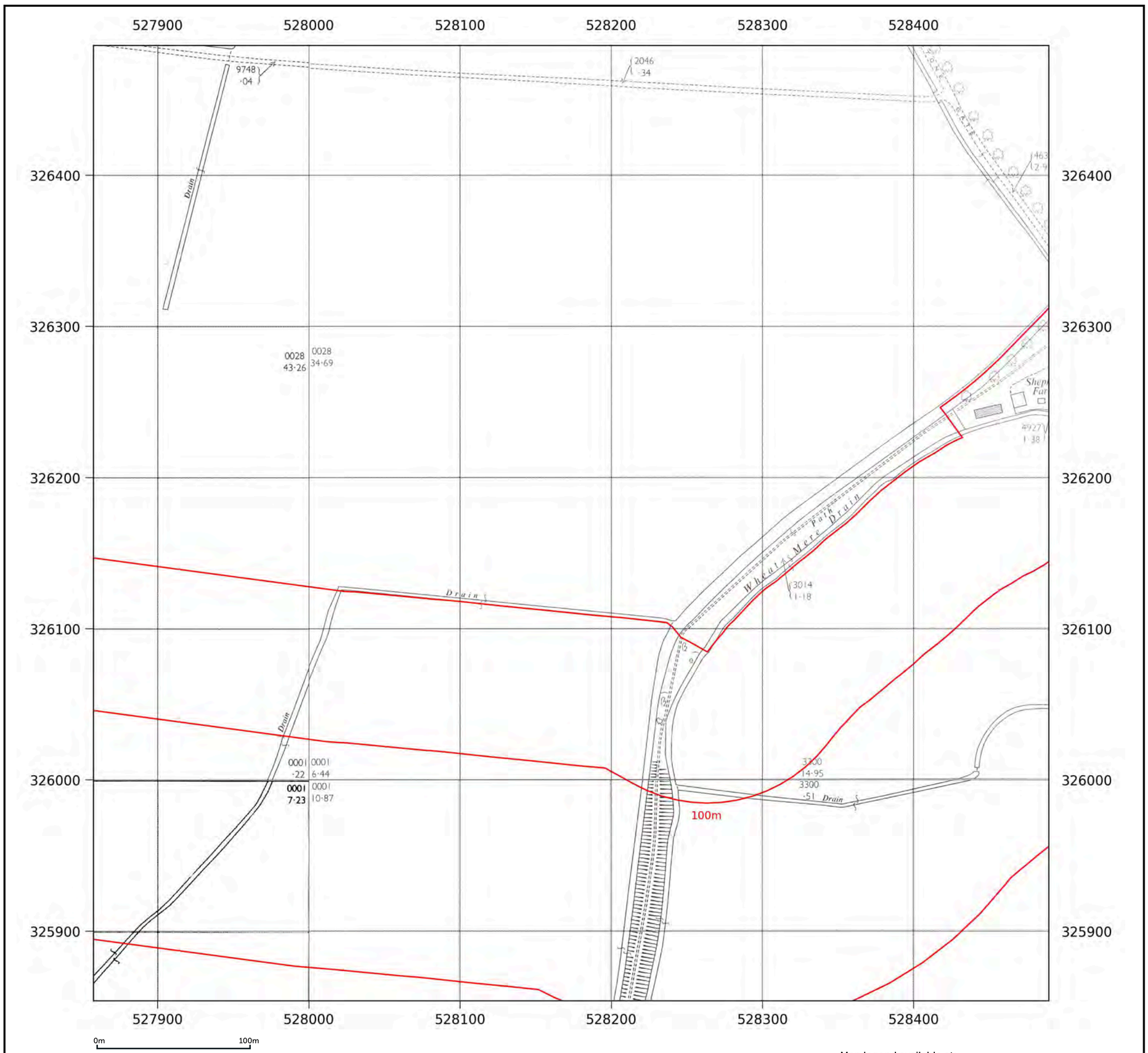

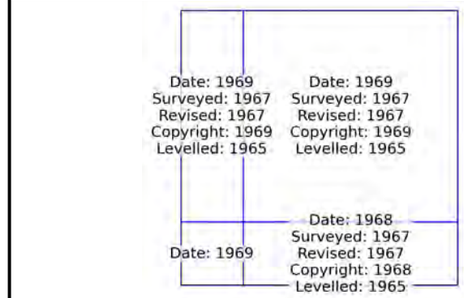

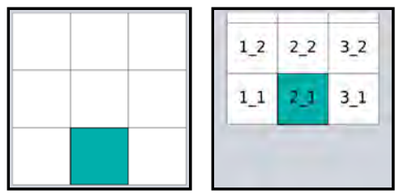

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Map Insight

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Production date:	9 January 2026

Map name:	National Grid
Map date:	1969
Scale:	1:2,500
Printed at:	1:2,500

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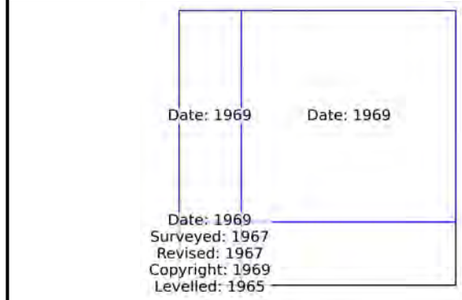

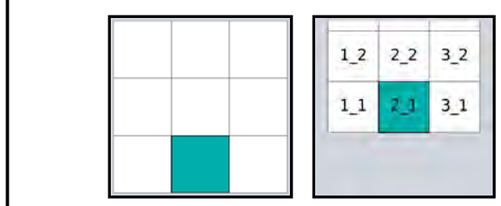

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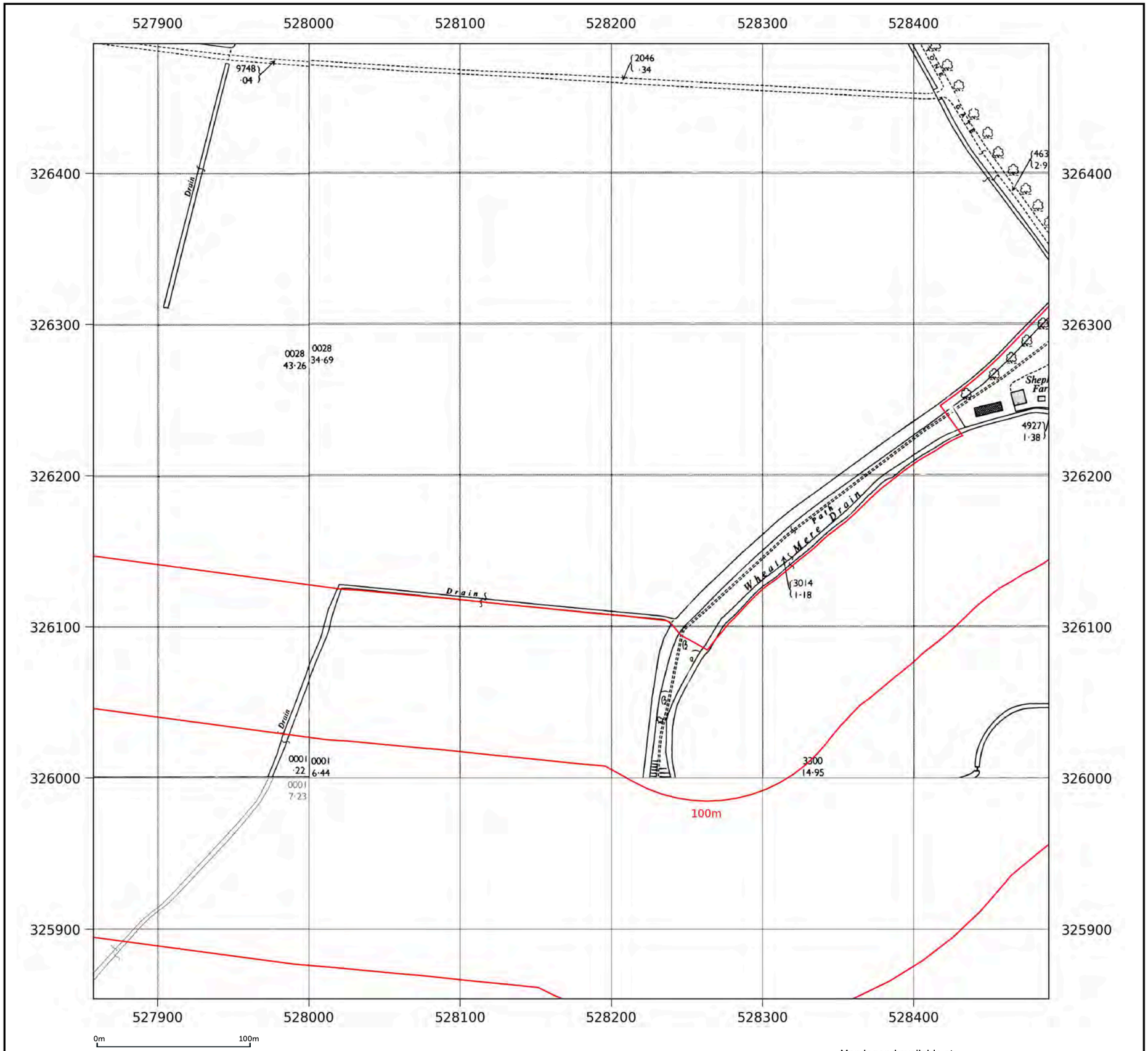

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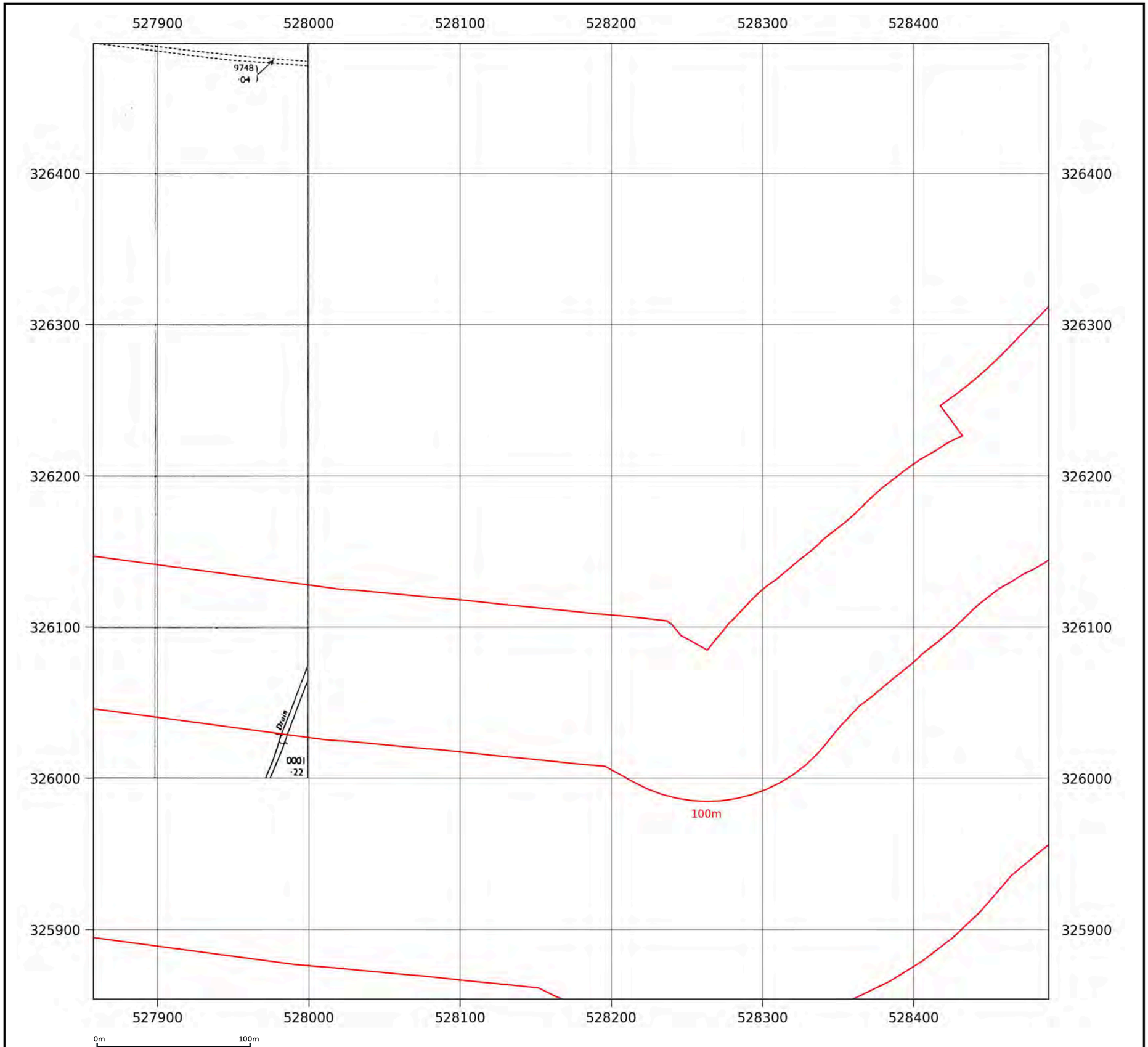

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1987
Scale:	1:2,500
Printed at:	1:2,500

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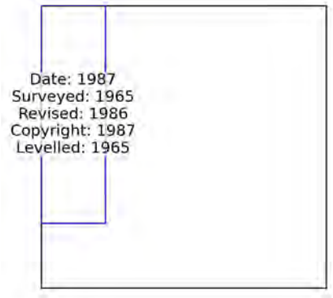

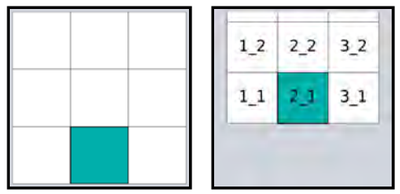

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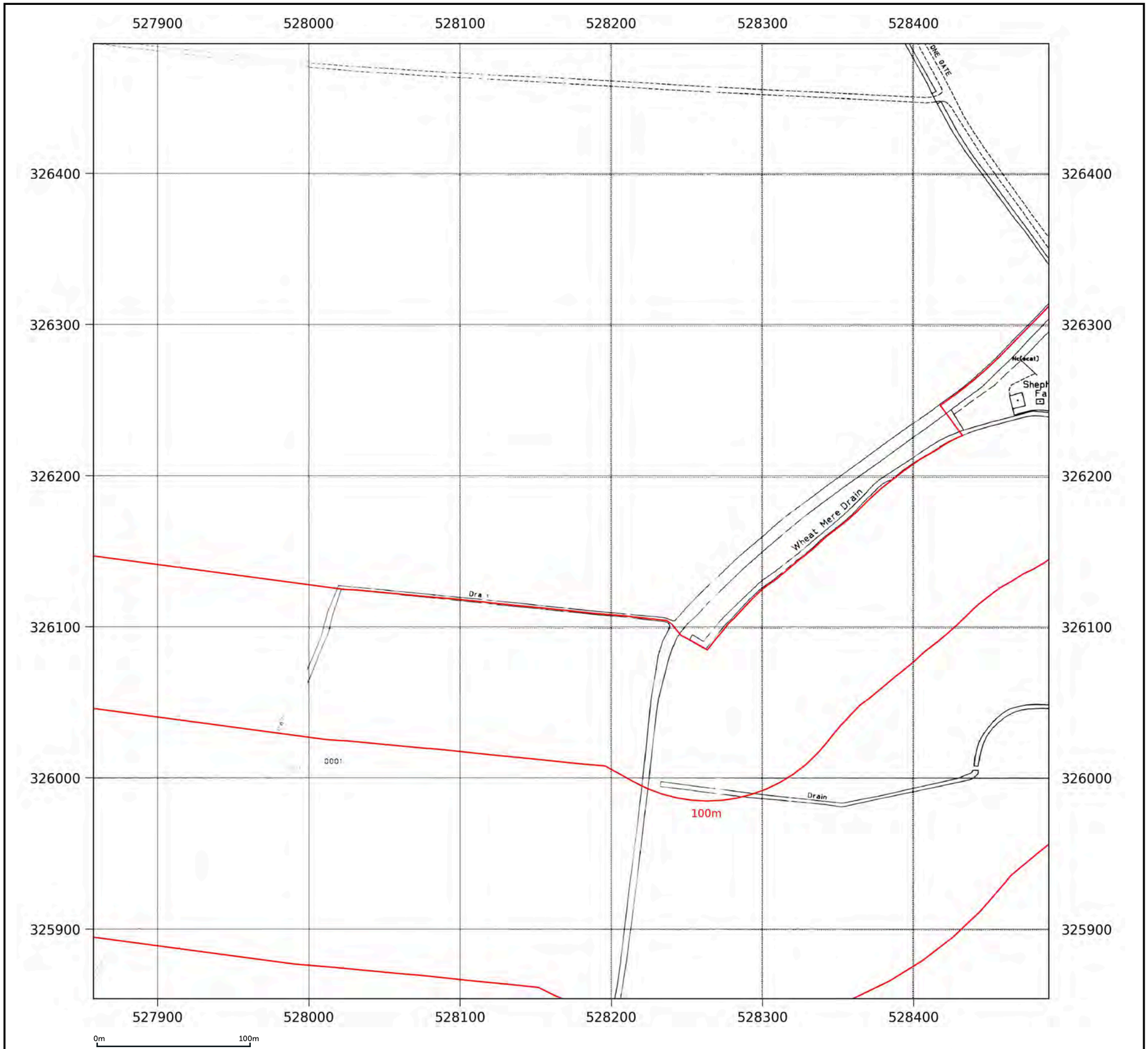

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Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1995
Scale:	1:2,500
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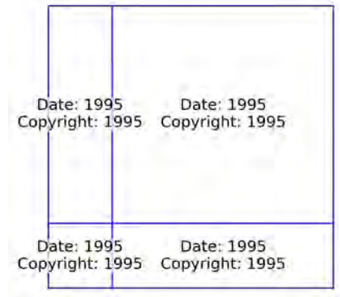

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Map Insight

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Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1888
Scale:	1:2,500
Printed at:	1:2,500

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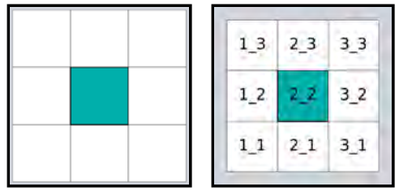

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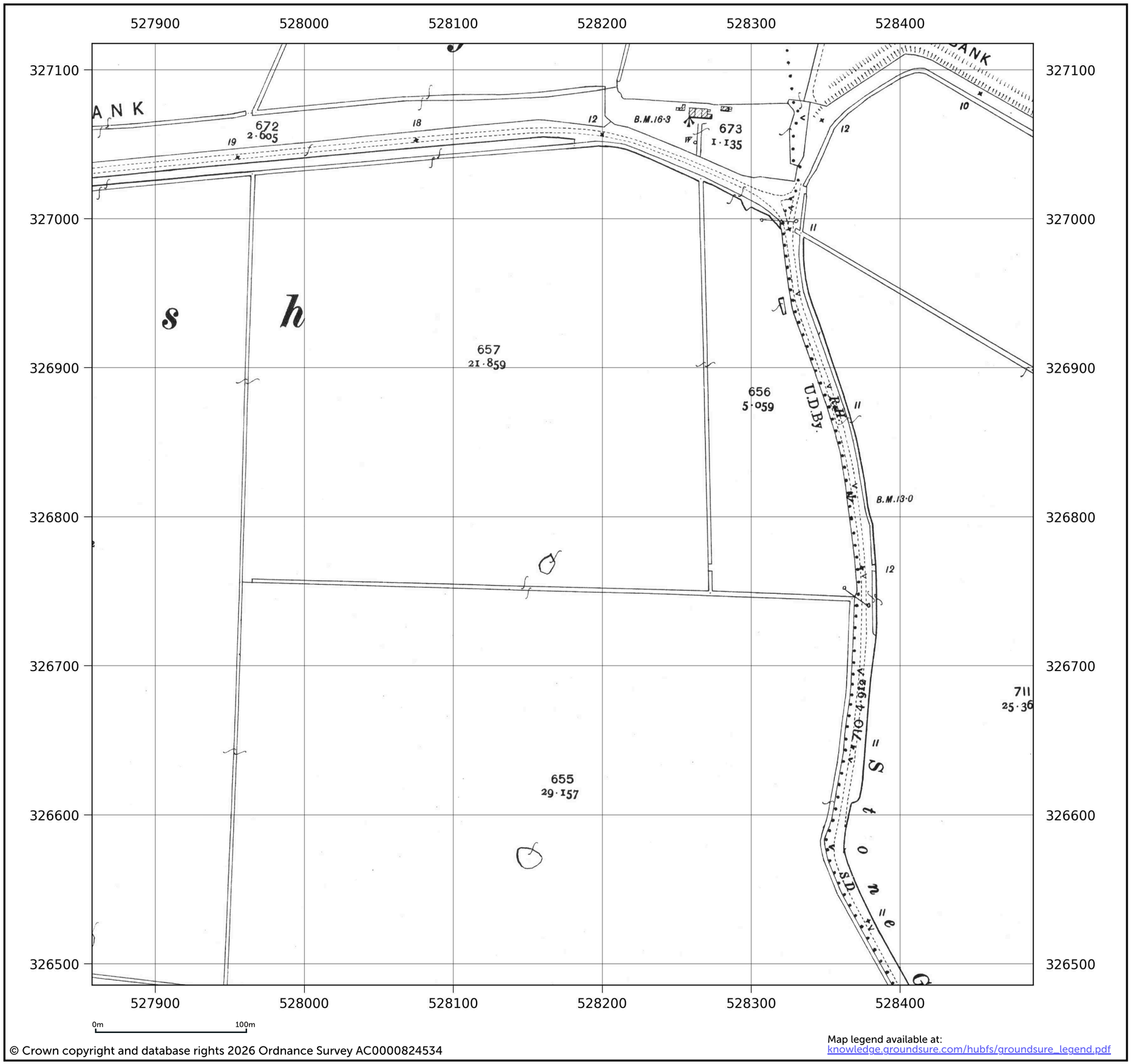

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Map Insight

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Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1904
Scale:	1:2,500
Printed at:	1:2,500

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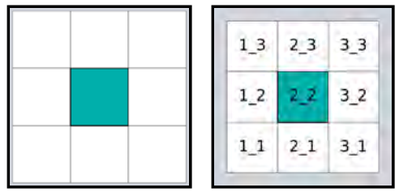

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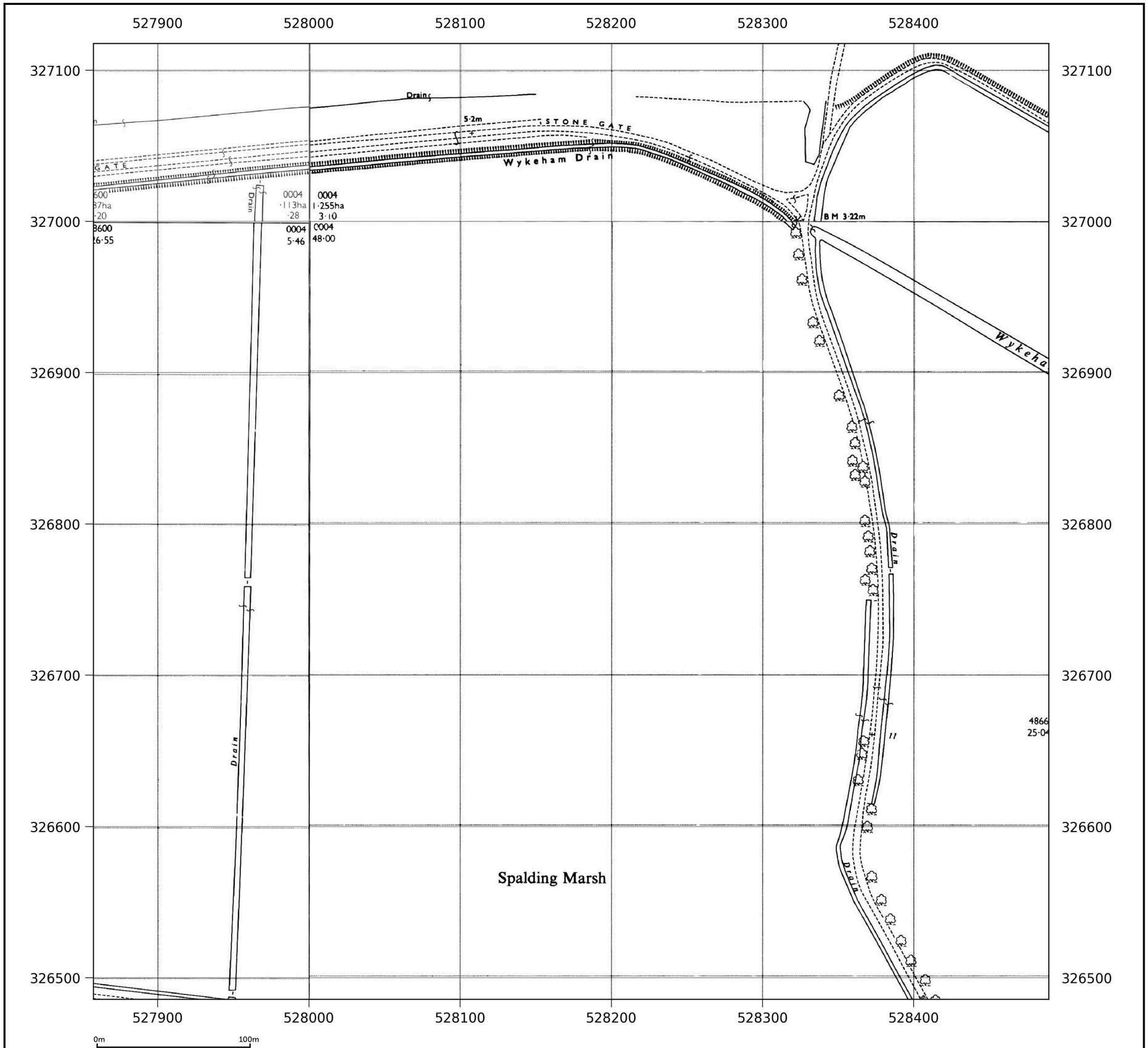

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1969-1973
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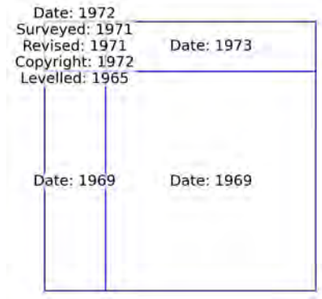

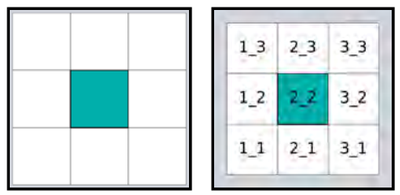

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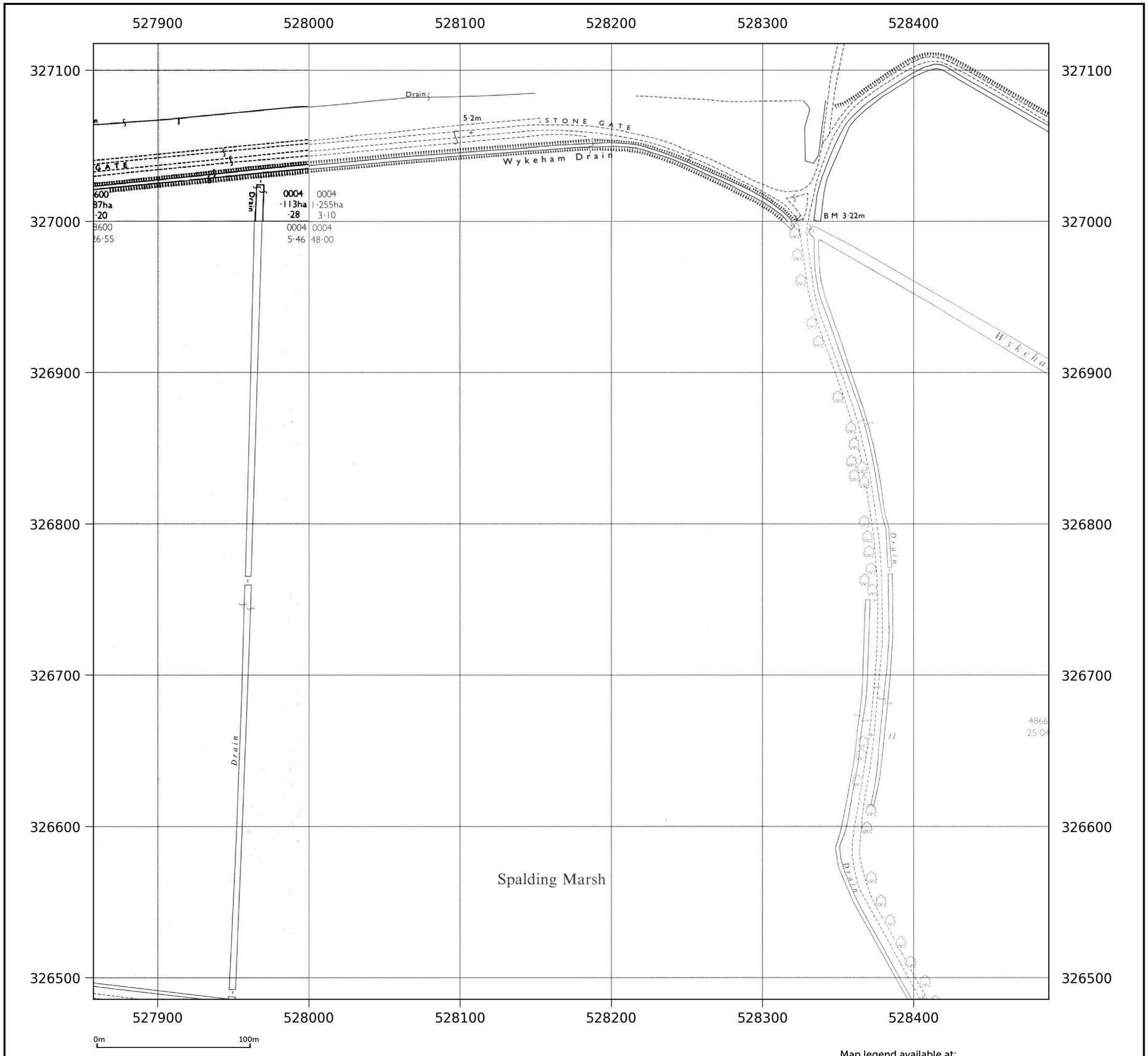

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Production date:	9 January 2026

Map name:	National Grid
Map date:	1969-1973
Scale:	1:2,500
Printed at:	1:2,500

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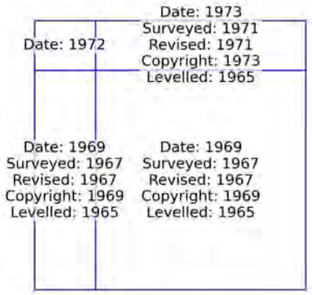

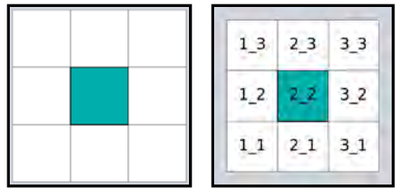

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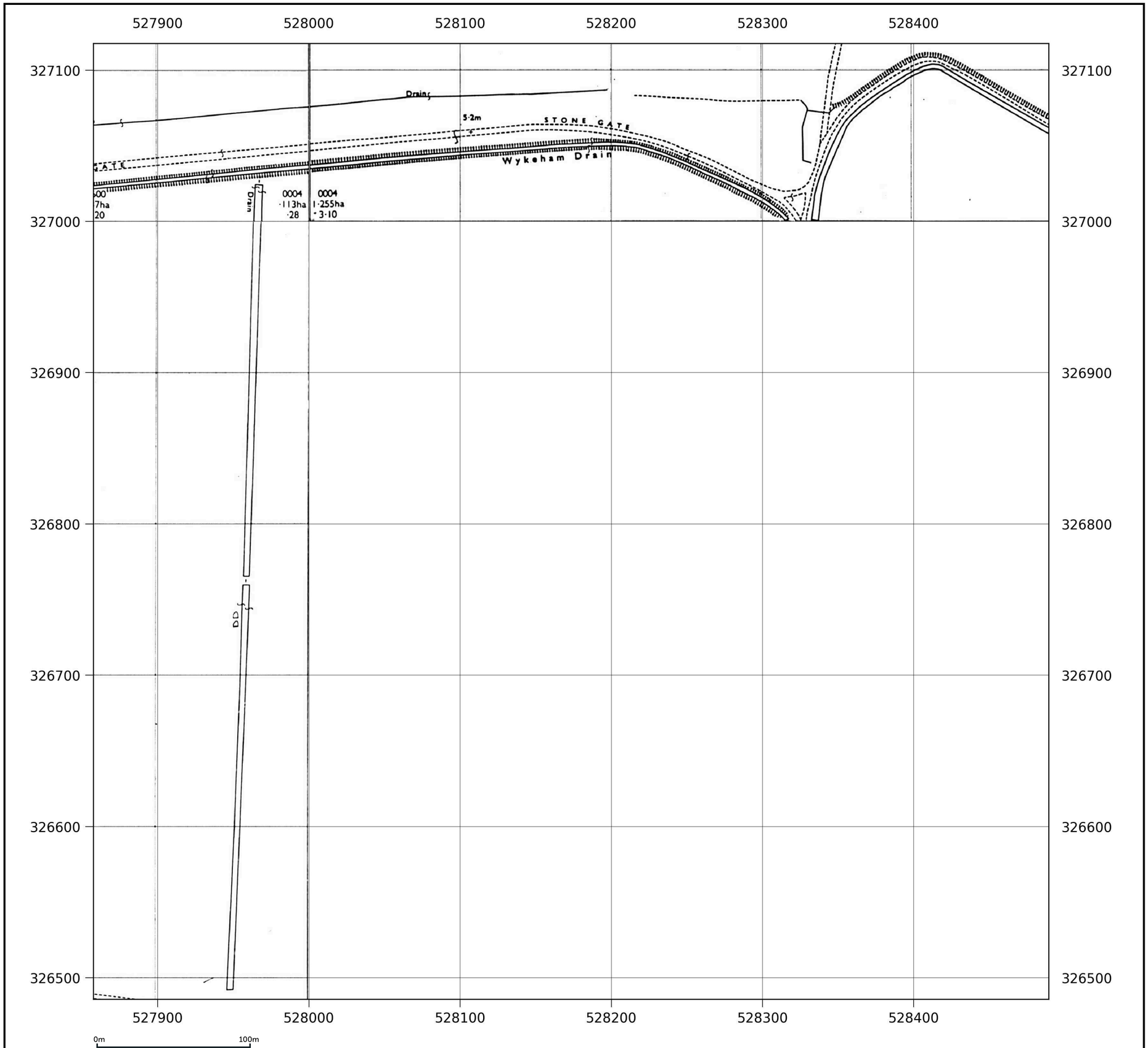

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Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1987
Scale:	1:2,500
Printed at:	1:2,500

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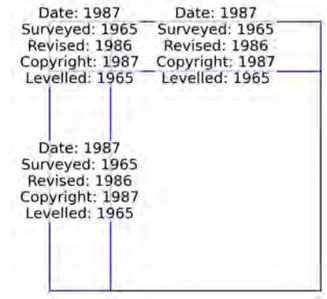

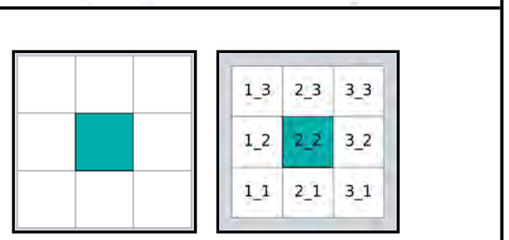

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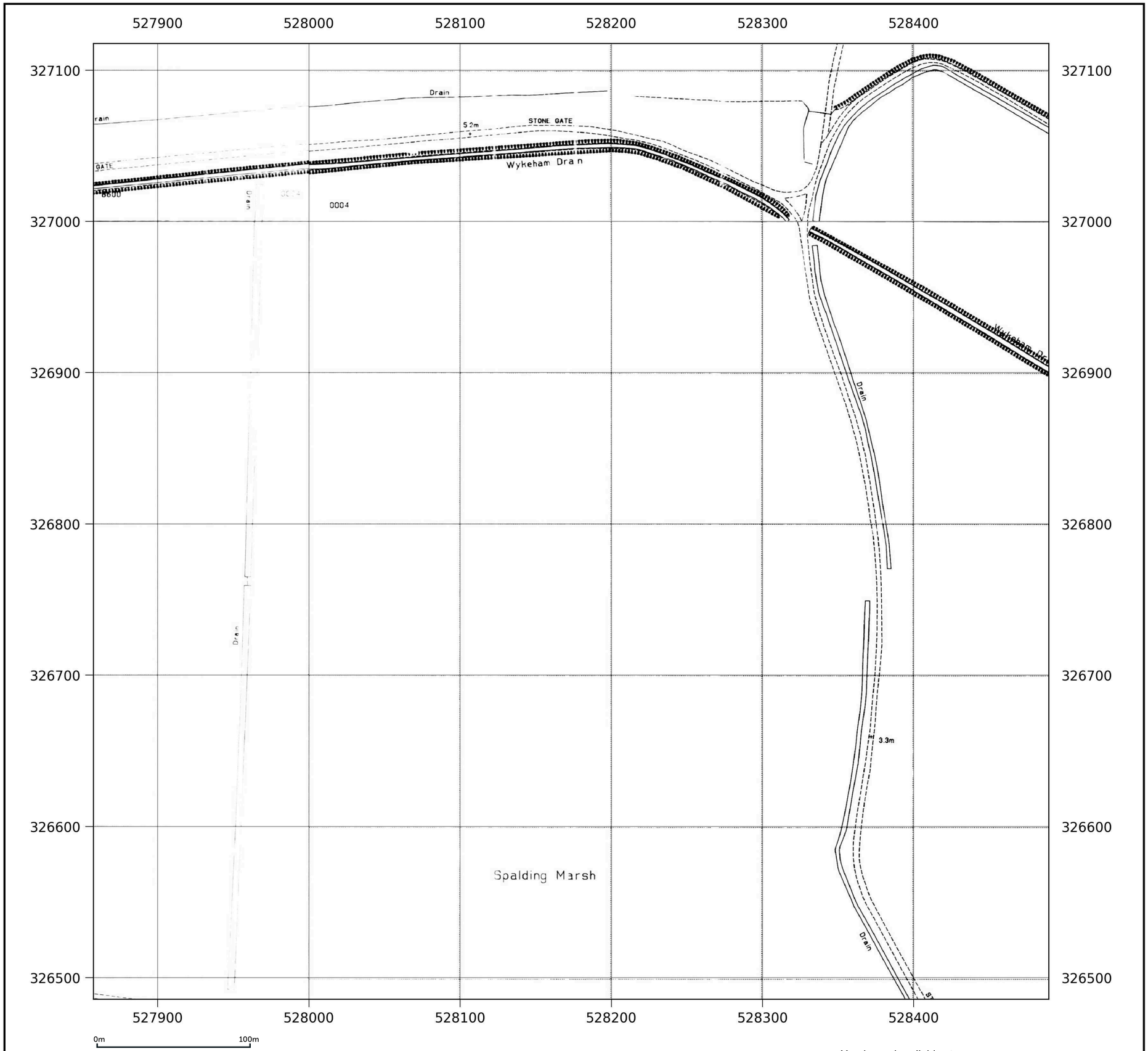

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Production date:	9 January 2026

Map name:	National Grid
Map date:	1995
Scale:	1:2,500
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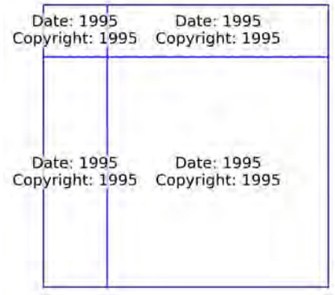

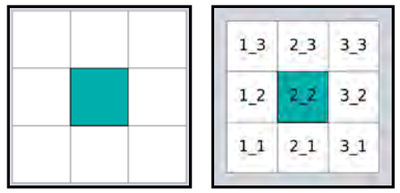

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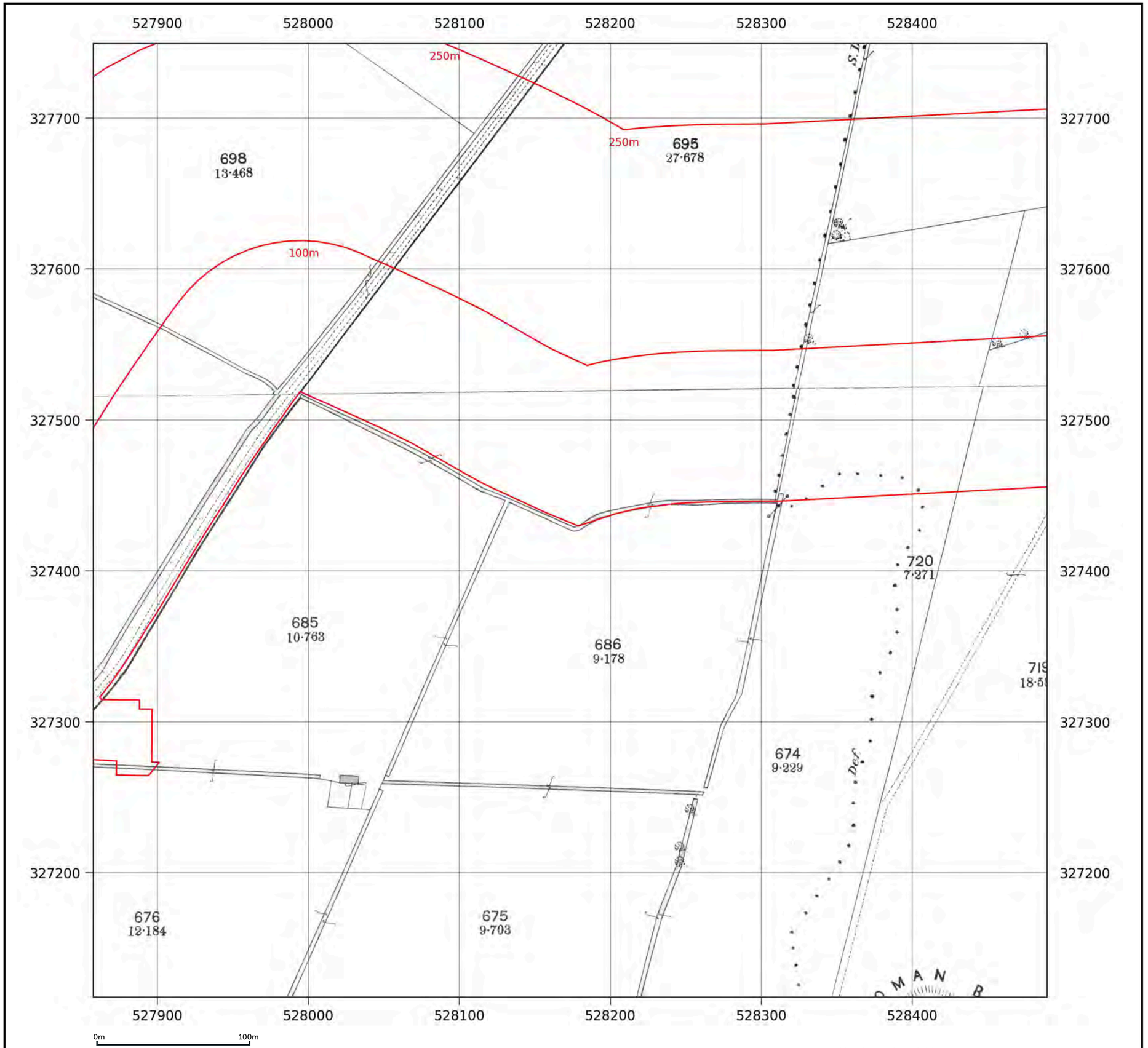

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Map Insight

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Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1888
Scale:	1:2,500
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Date: 1888
Surveyed: 1888
Revised: 1888

Date: 1888
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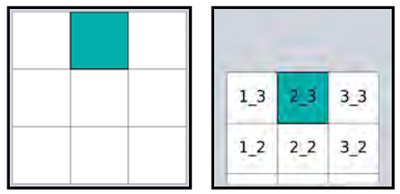
Revised: 1888



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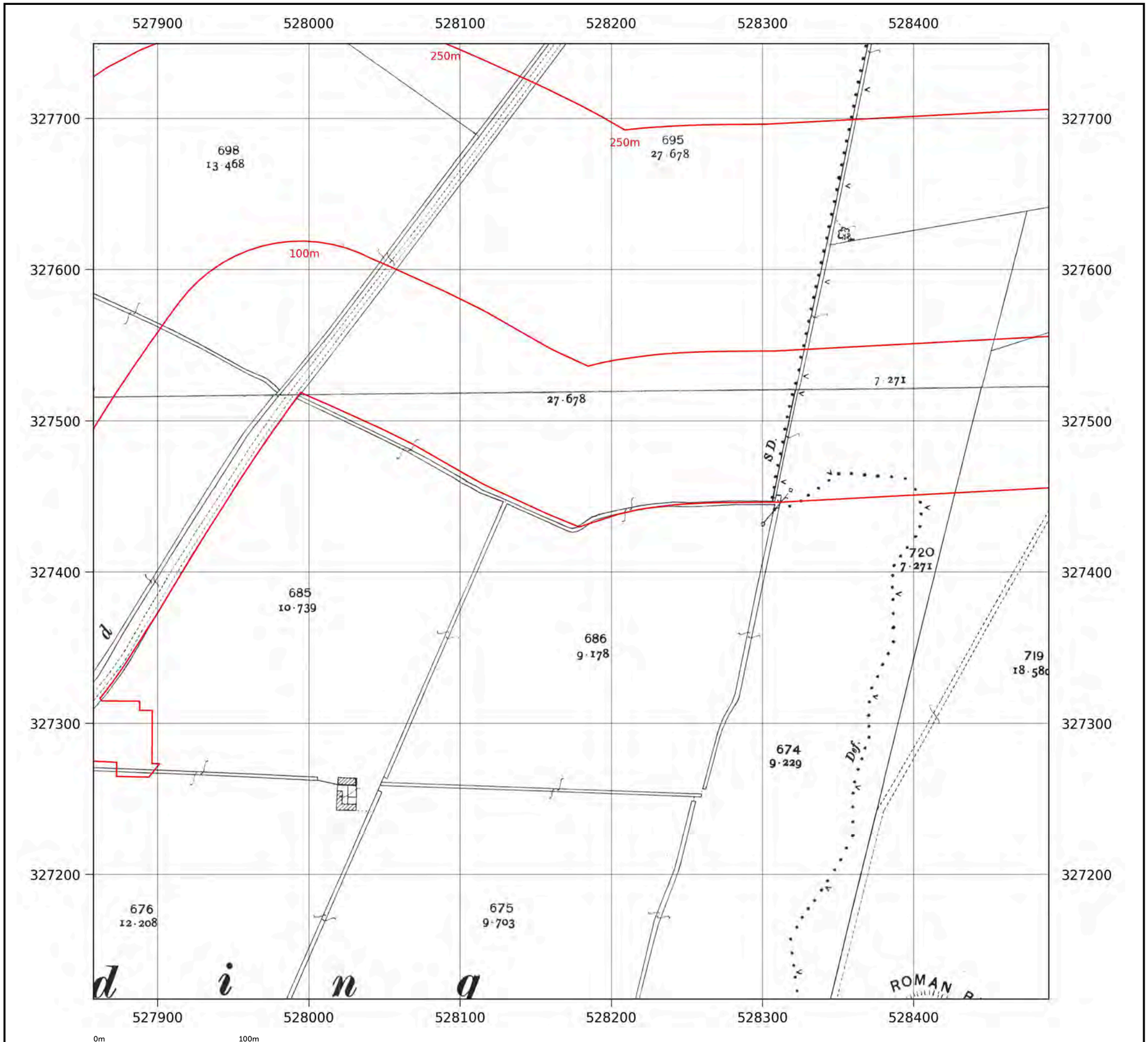

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Map Insight

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Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1904
Scale:	1:2,500
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Date: 1904
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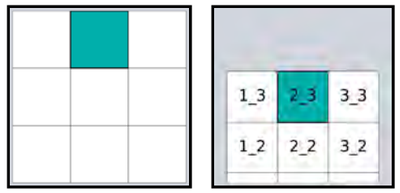

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Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1972-1973
Scale:	1:2,500
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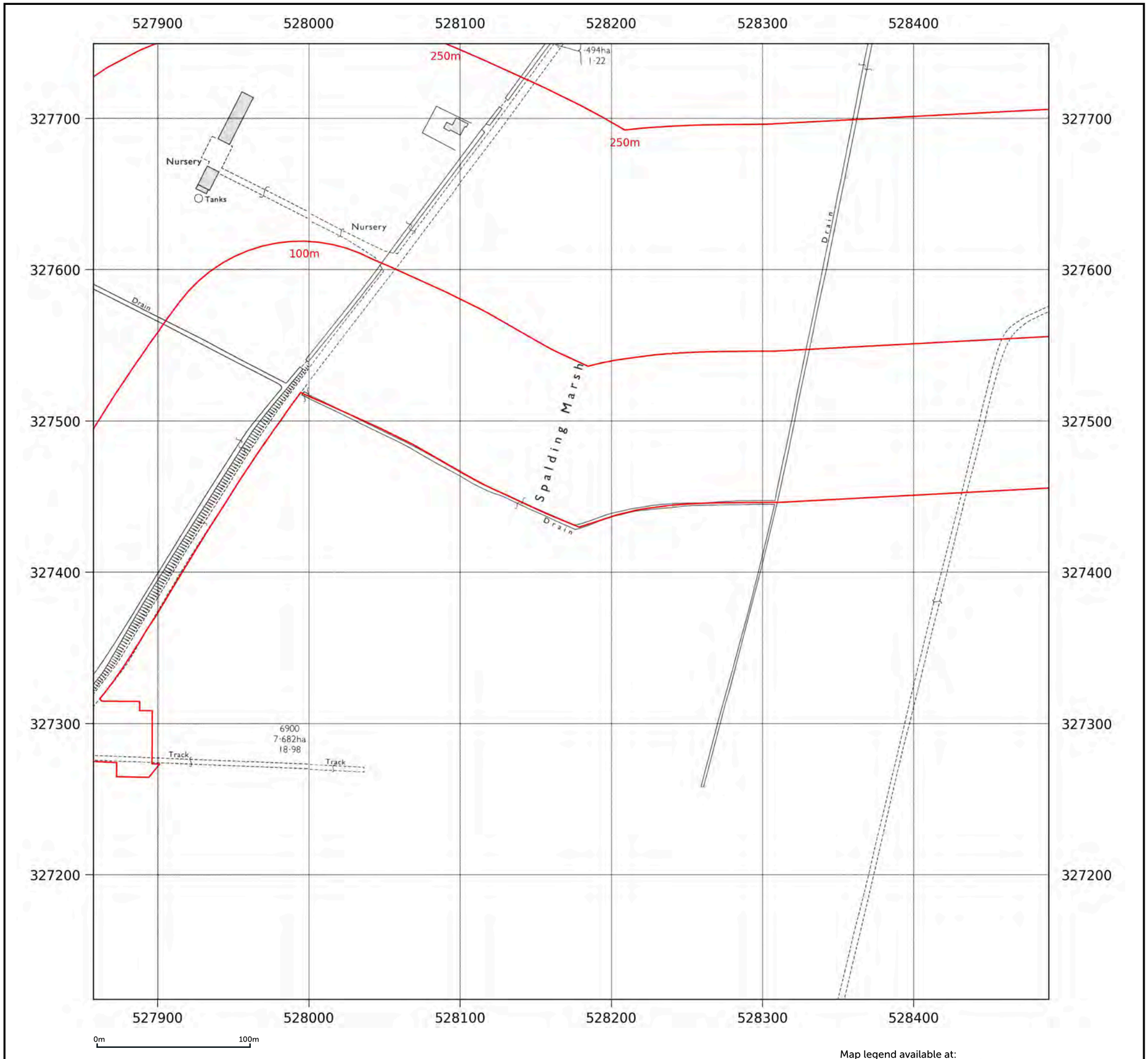

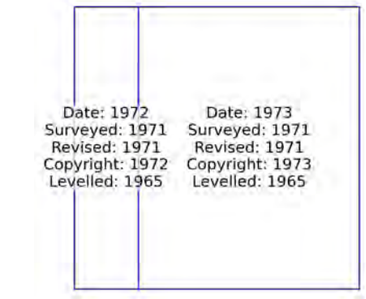

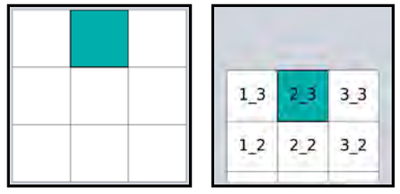

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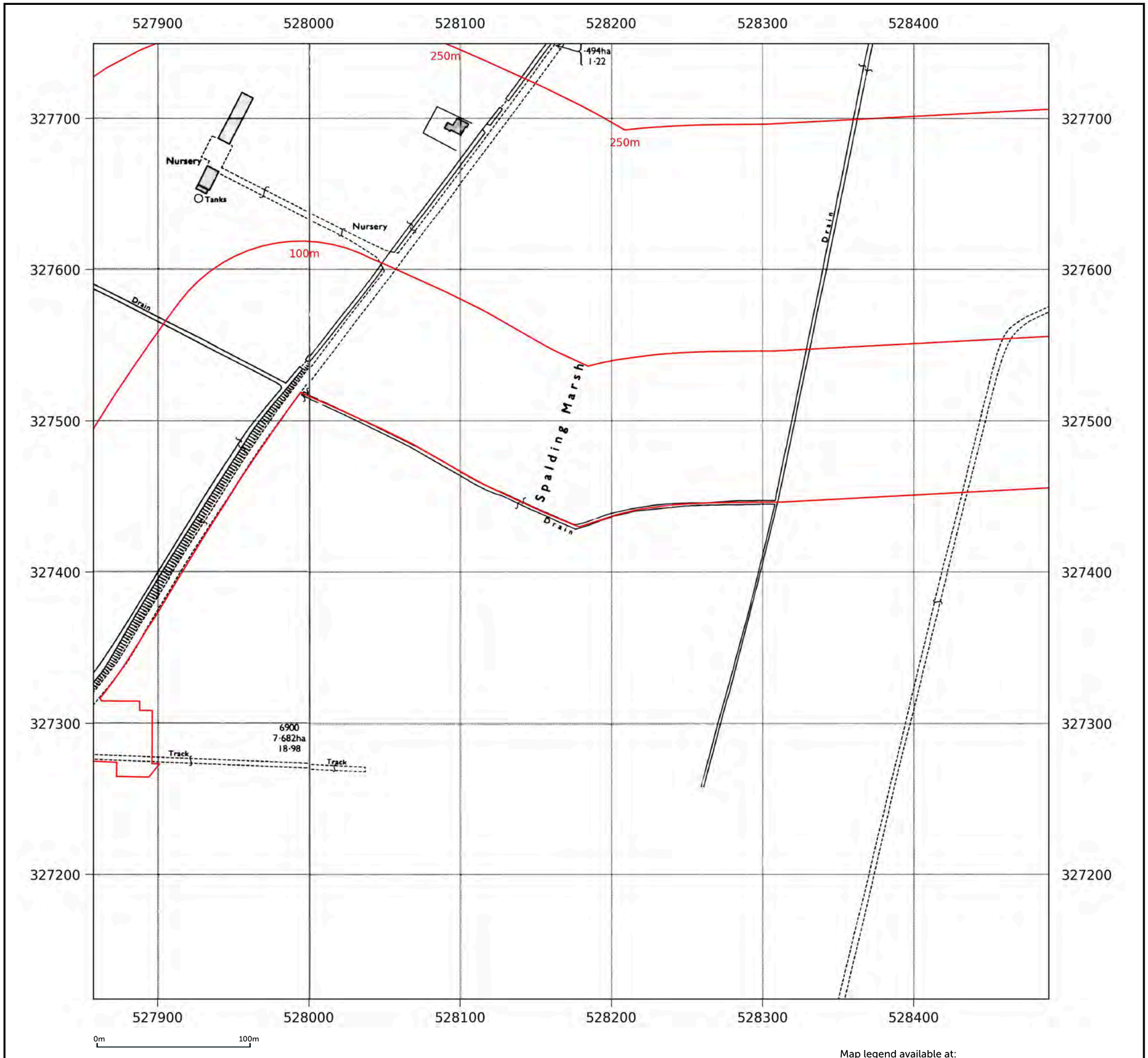

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Production date:	9 January 2026

Map name:	National Grid
Map date:	1972-1973
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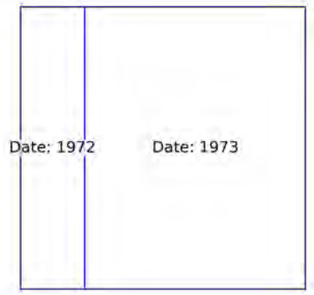

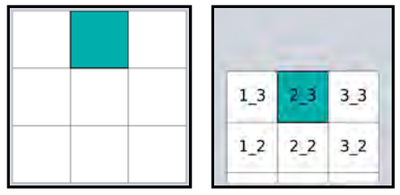

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Production date:	9 January 2026

Map name:	National Grid
Map date:	1987
Scale:	1:2,500
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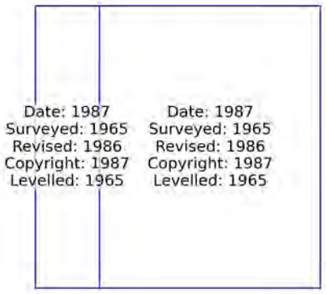

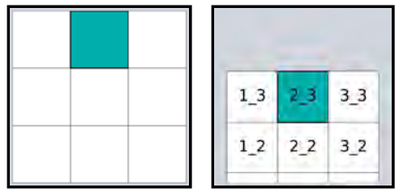

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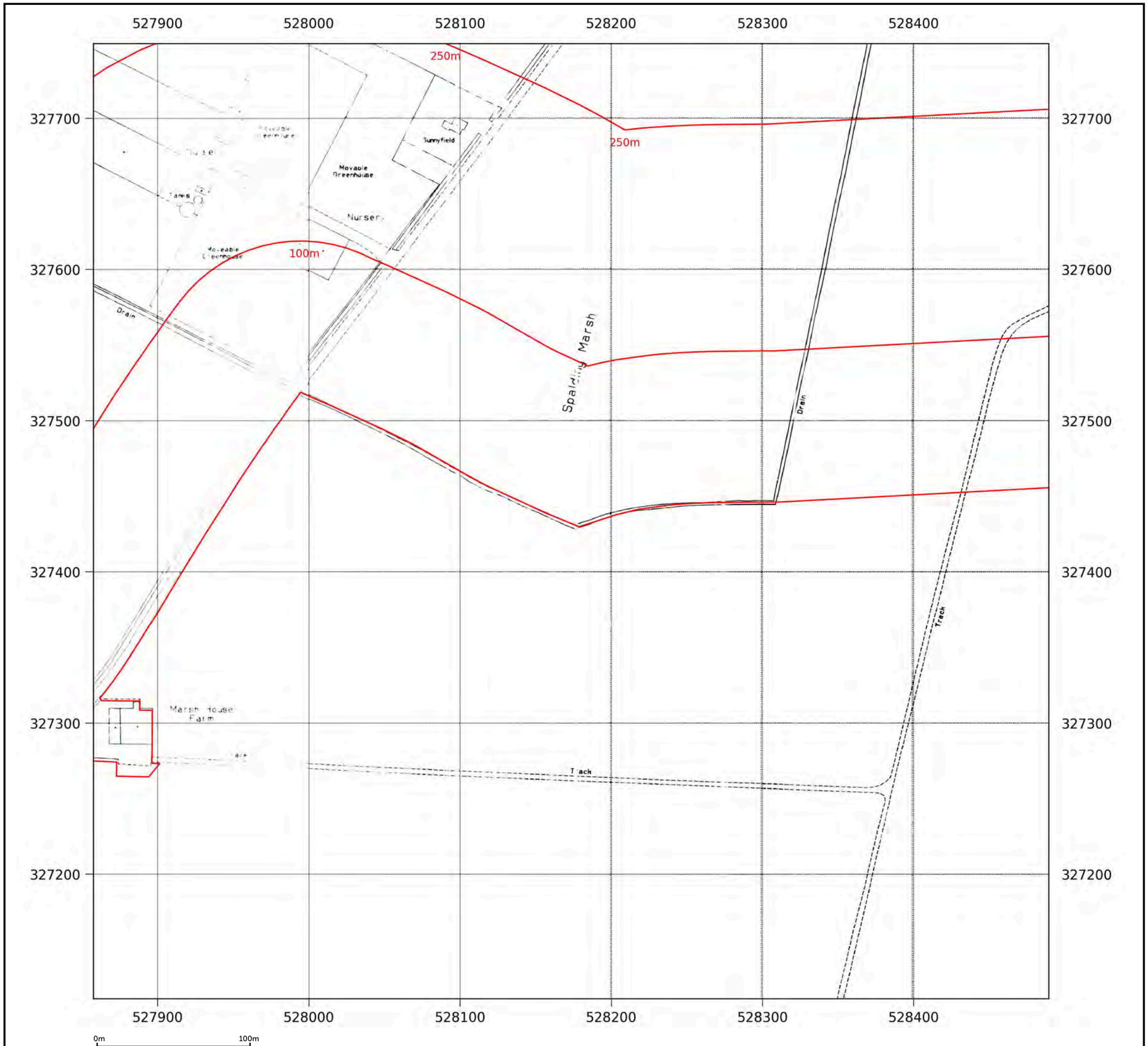

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Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1995
Scale:	1:2,500
Printed at:	1:2,500

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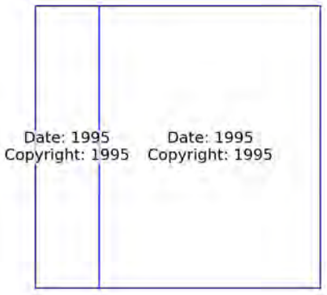

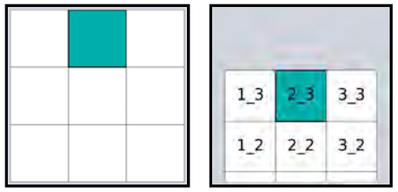

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Scale:	1:2,500
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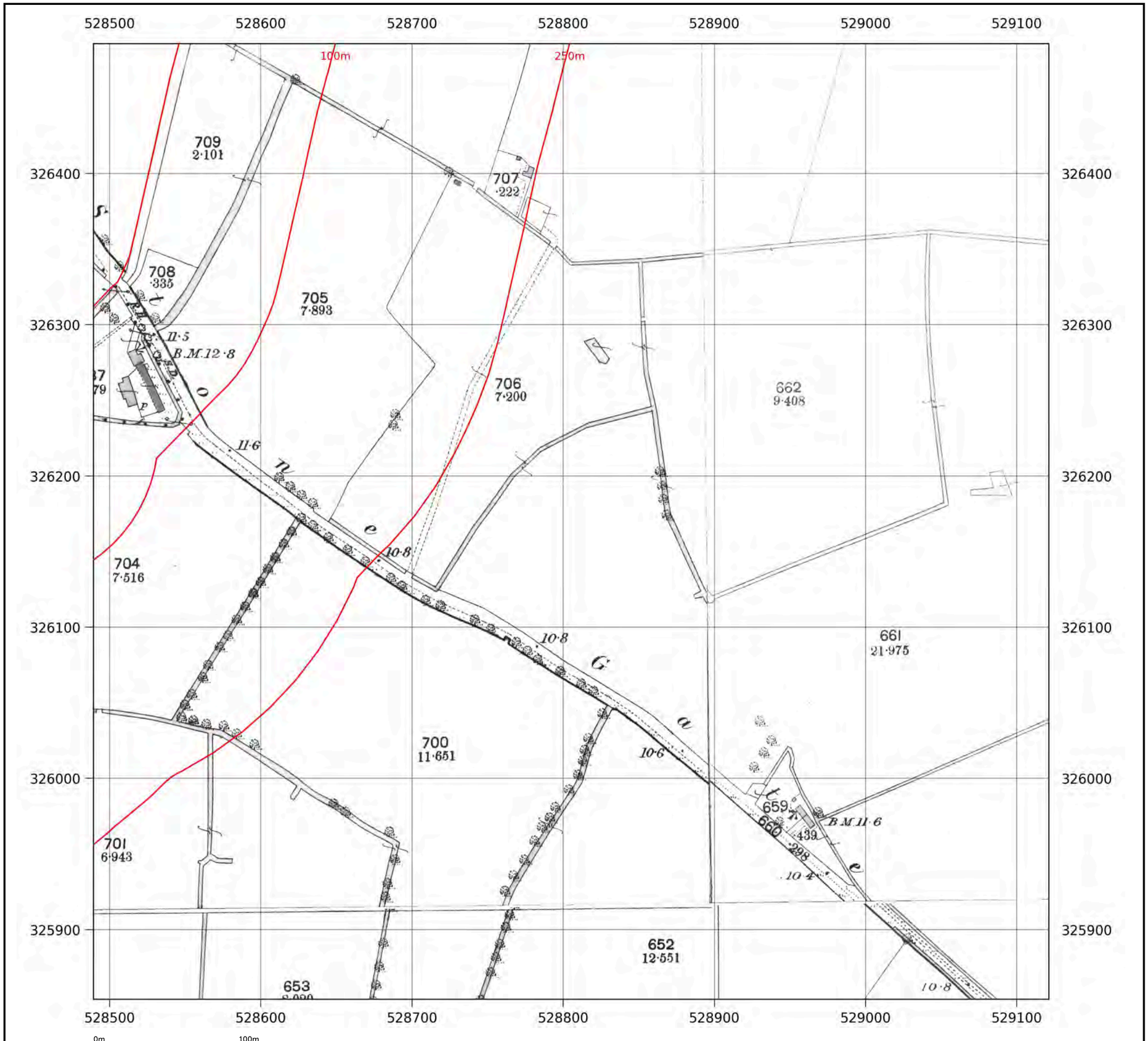

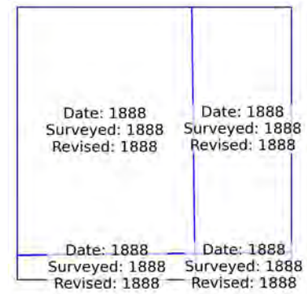

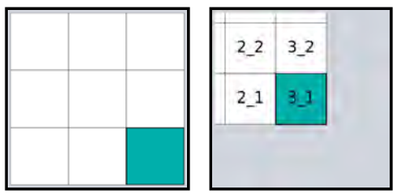

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Map legend available at:
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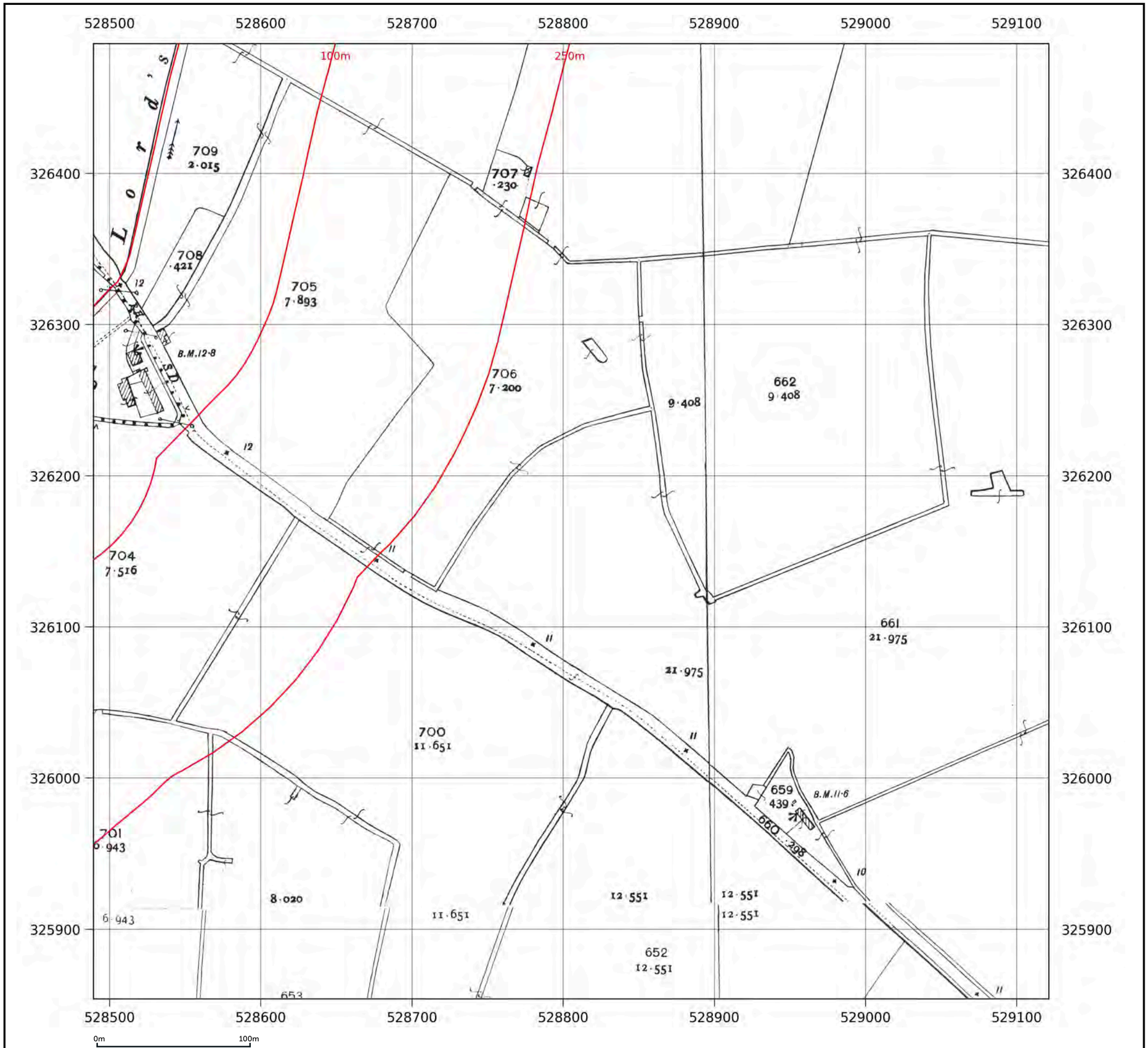
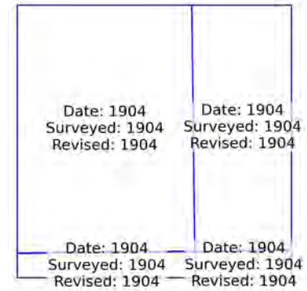
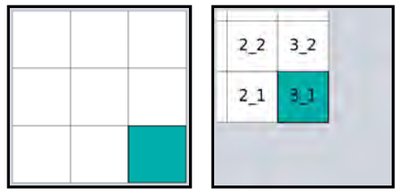
Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1904
Scale:	1:2,500
Printed at:	1:2,500







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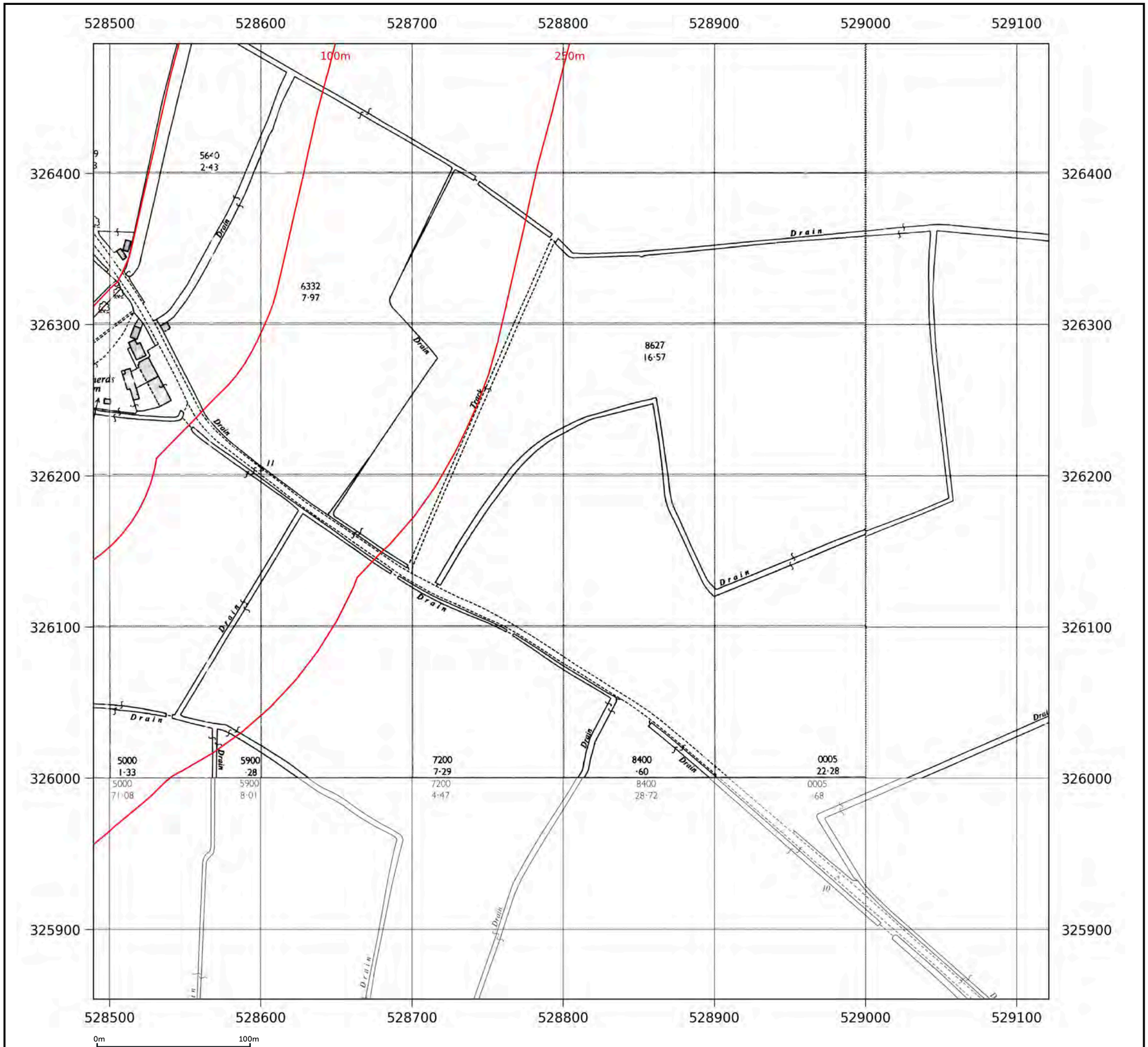

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1968-1969
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Printed at:	1:2,500

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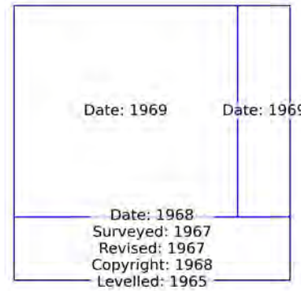

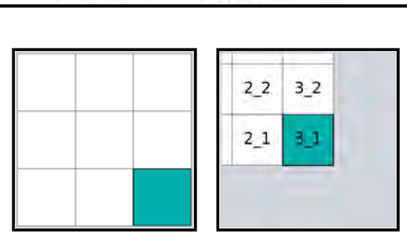

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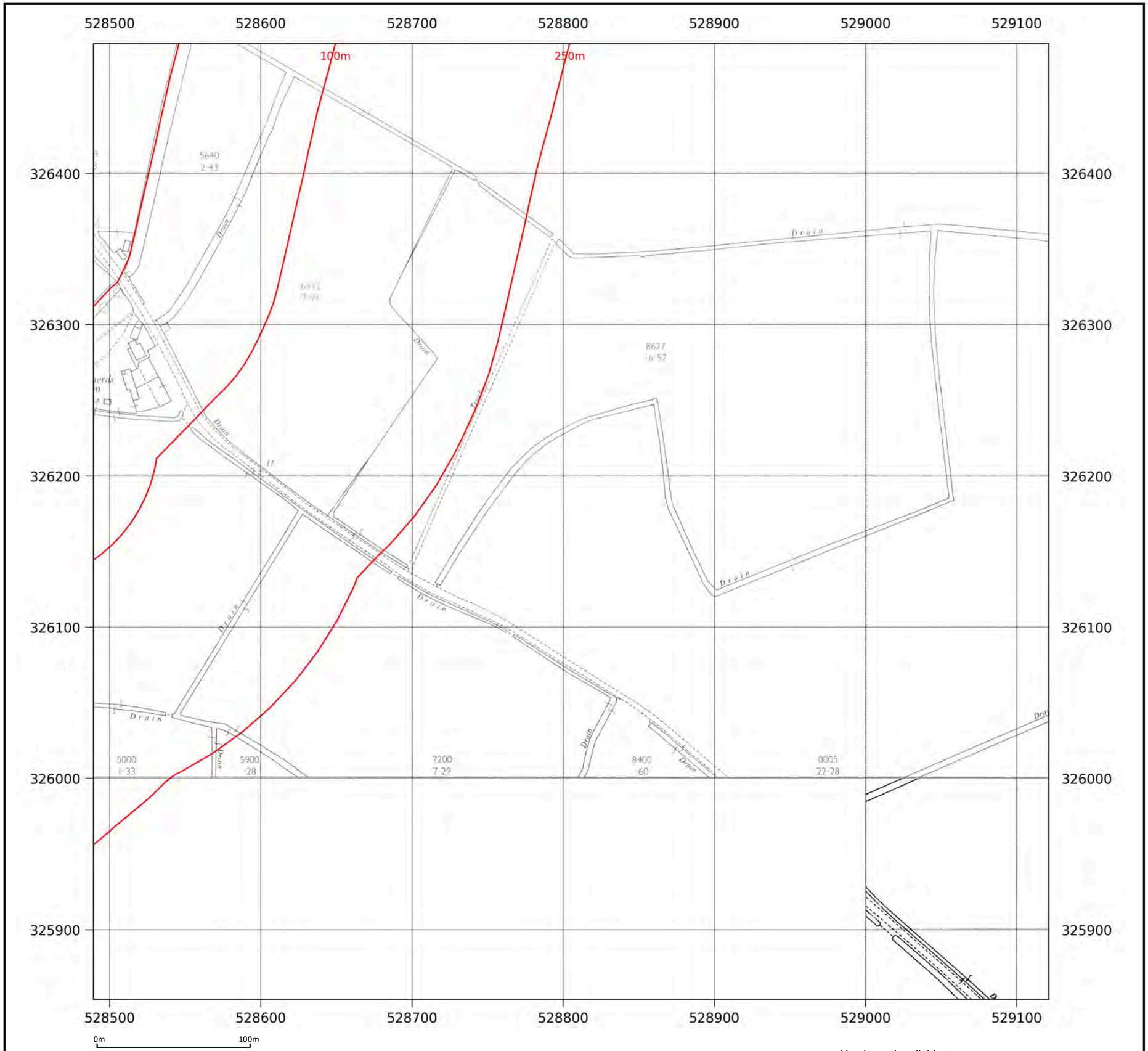

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
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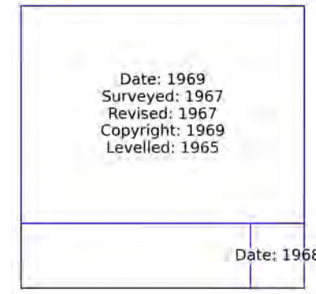

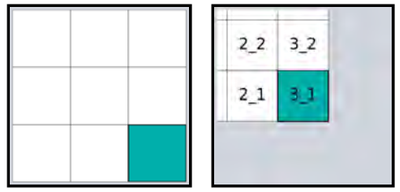

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Map Insight

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Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
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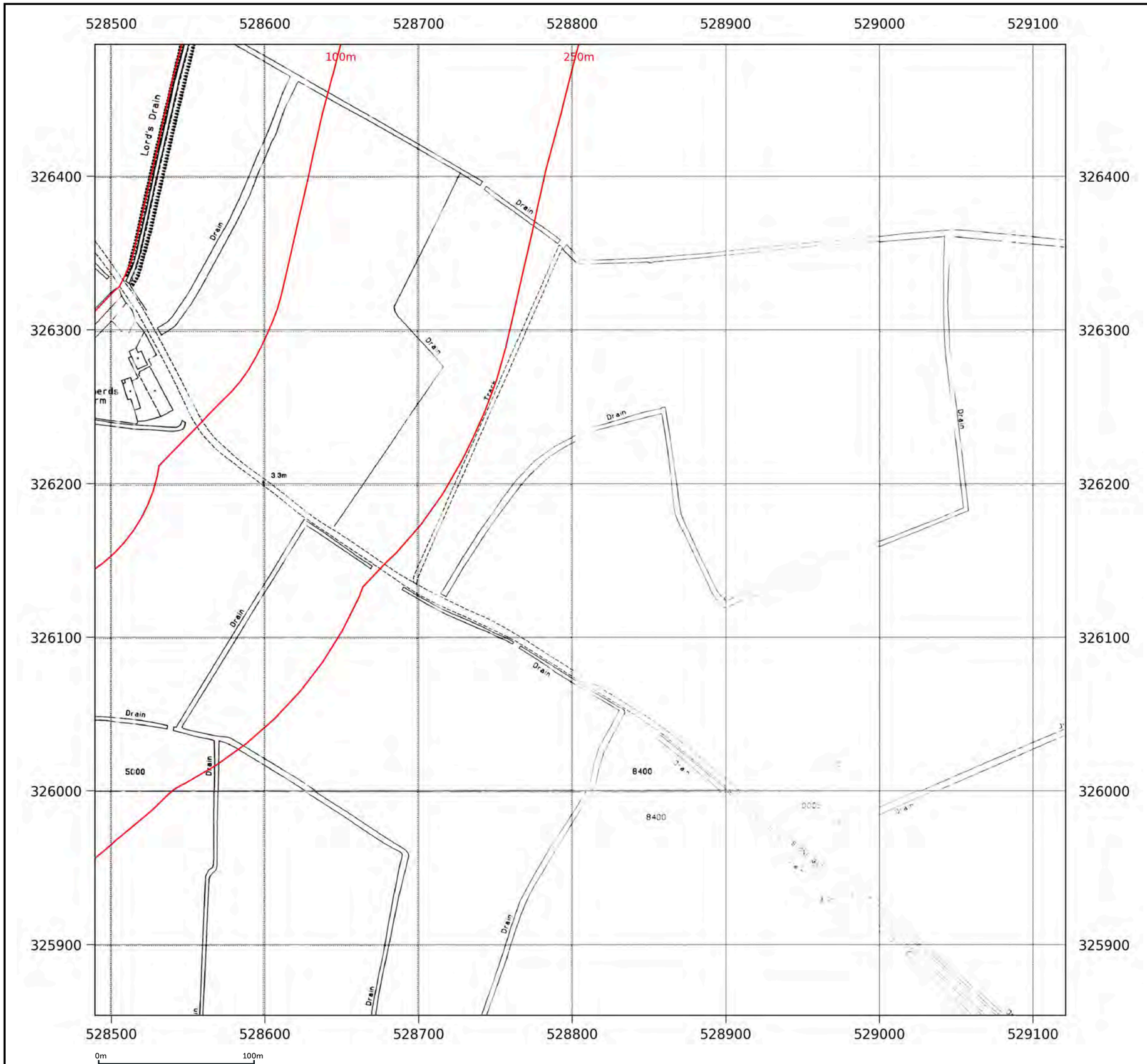

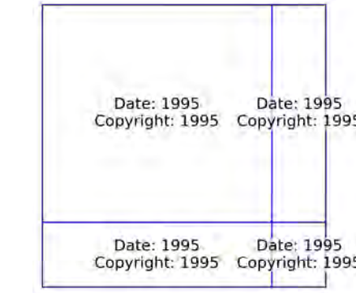

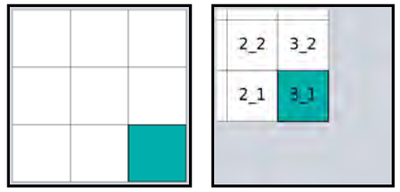

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Map Insight

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Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1888
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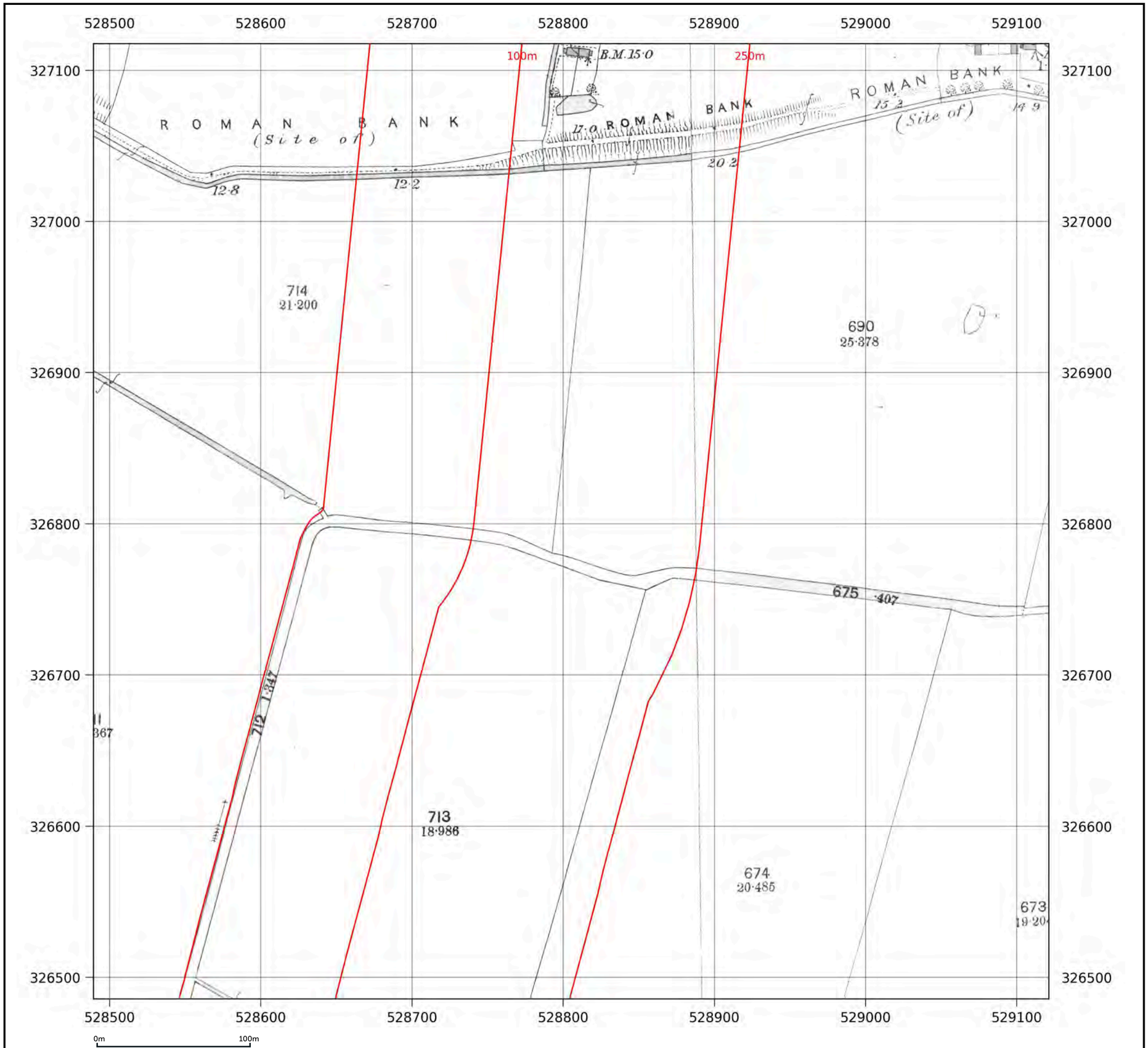
Printed at:	1:2,500



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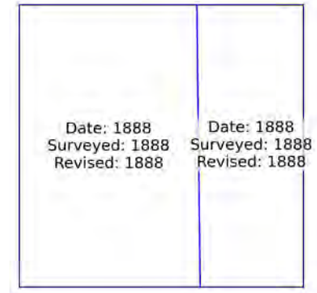

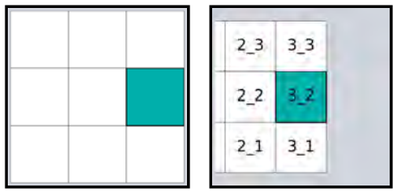

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Map Insight

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Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

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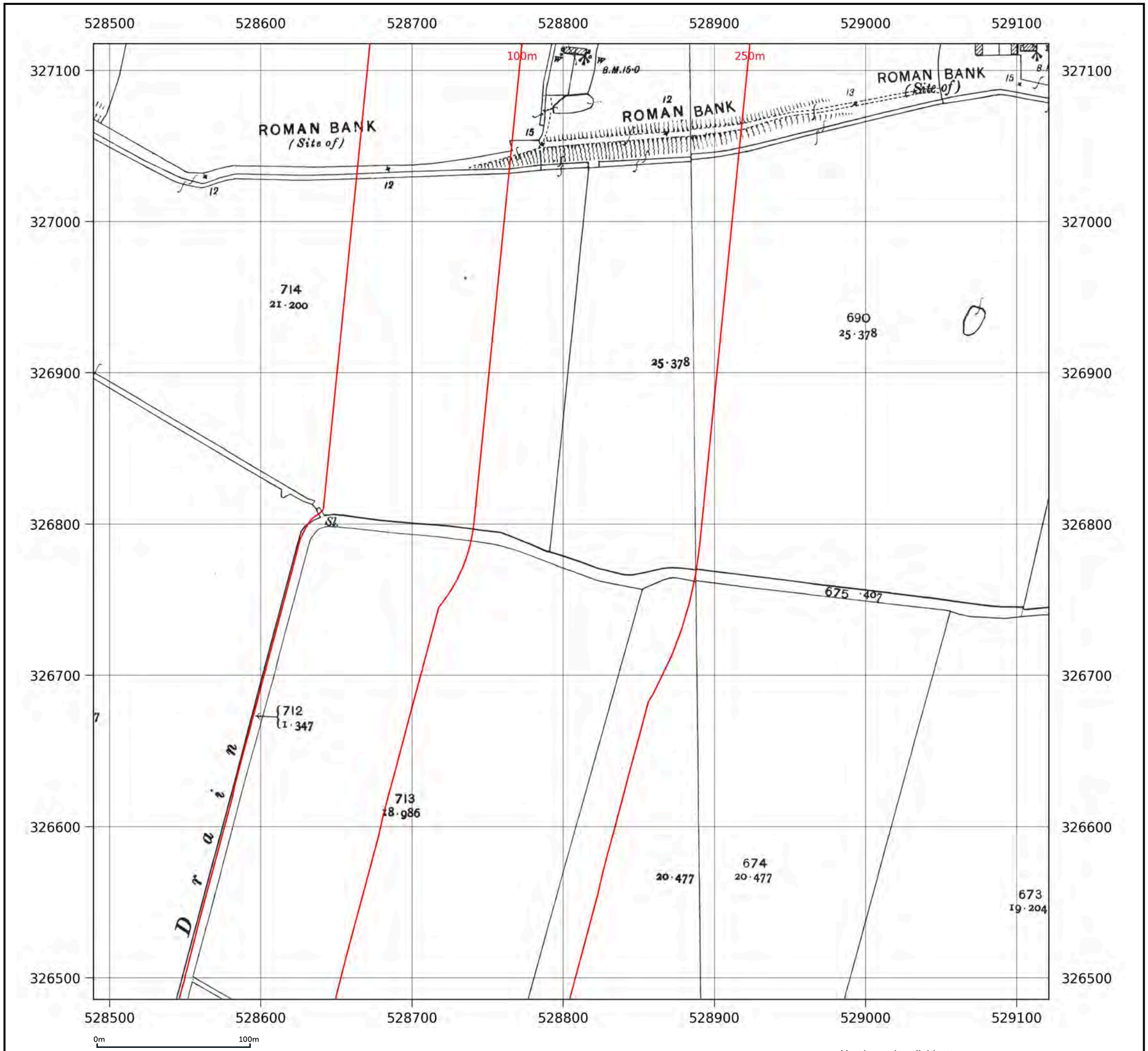

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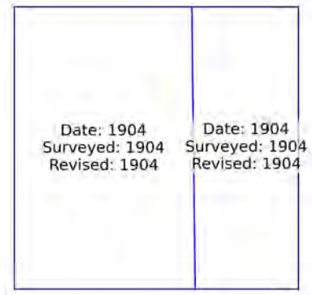

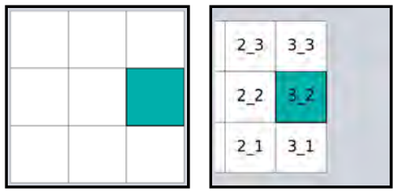

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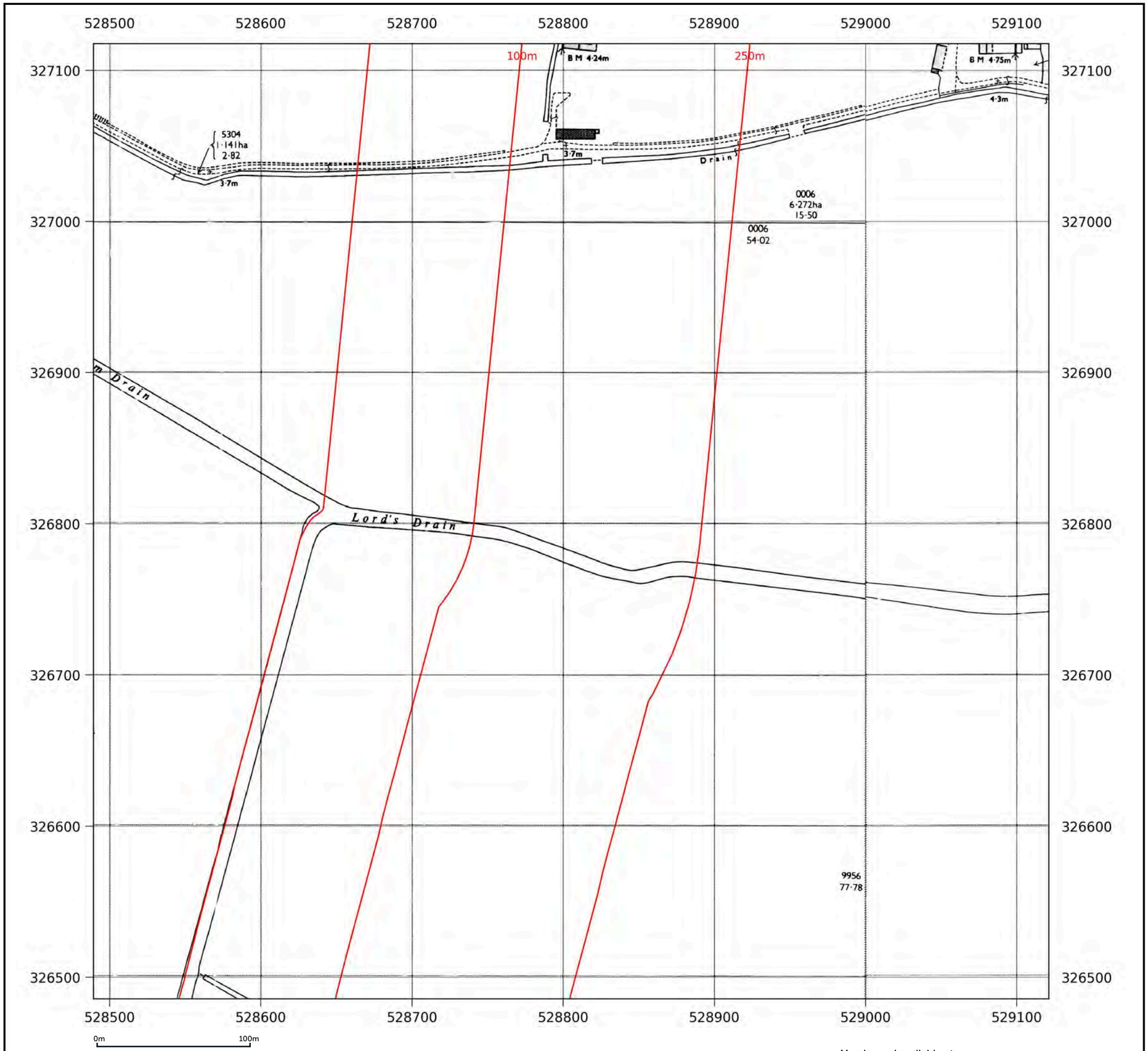

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1969-1973
Scale:	1:2,500
Printed at:	1:2,500

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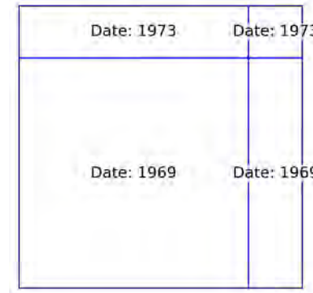

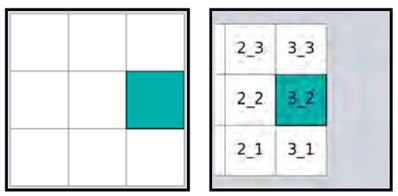

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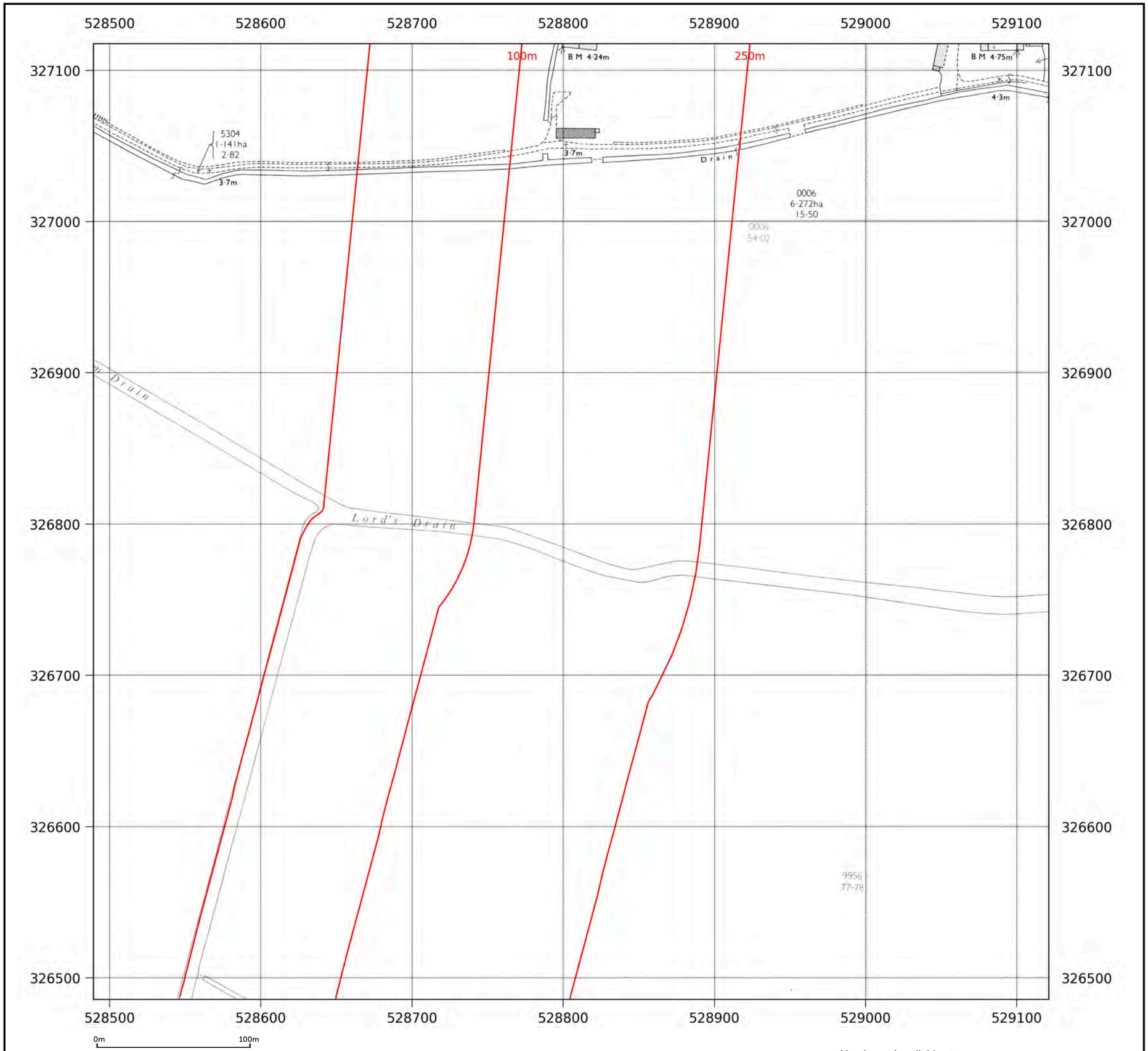

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1969-1973
Scale:	1:2,500
Printed at:	1:2,500

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Date: 1973
Surveyed: 1971
Revised: 1971
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Levelled: 1965

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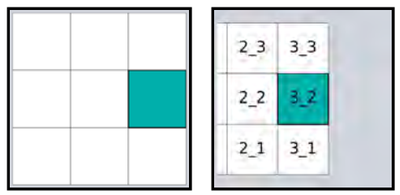

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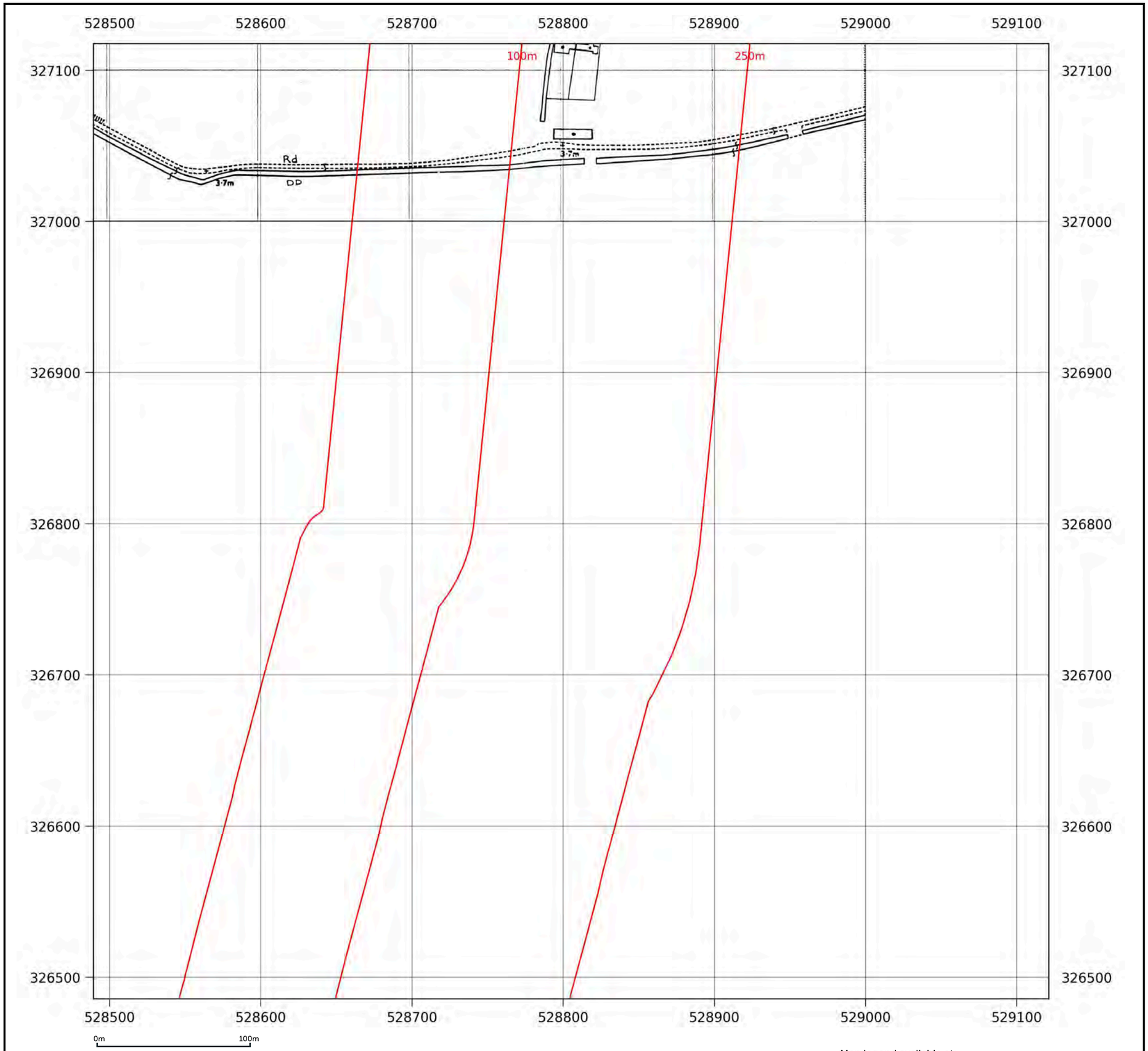

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

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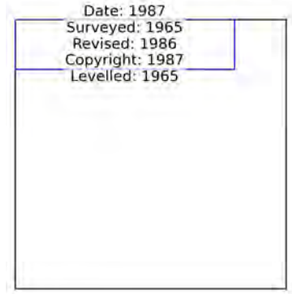

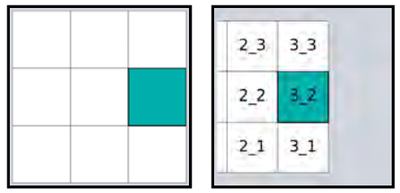

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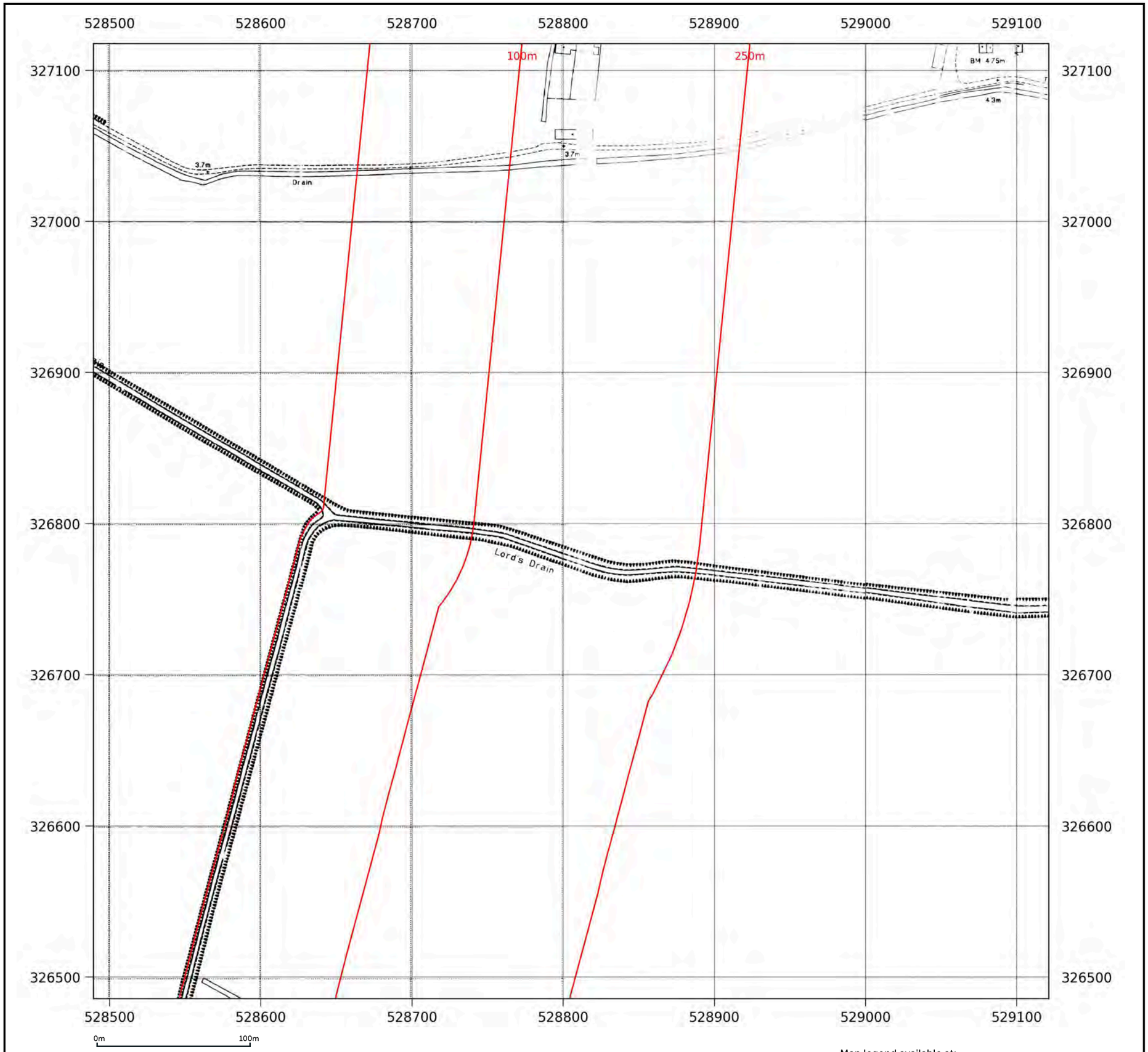

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1995
Scale:	1:2,500
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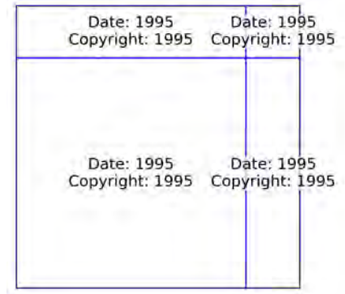

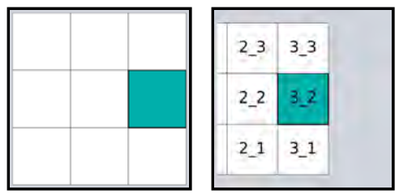

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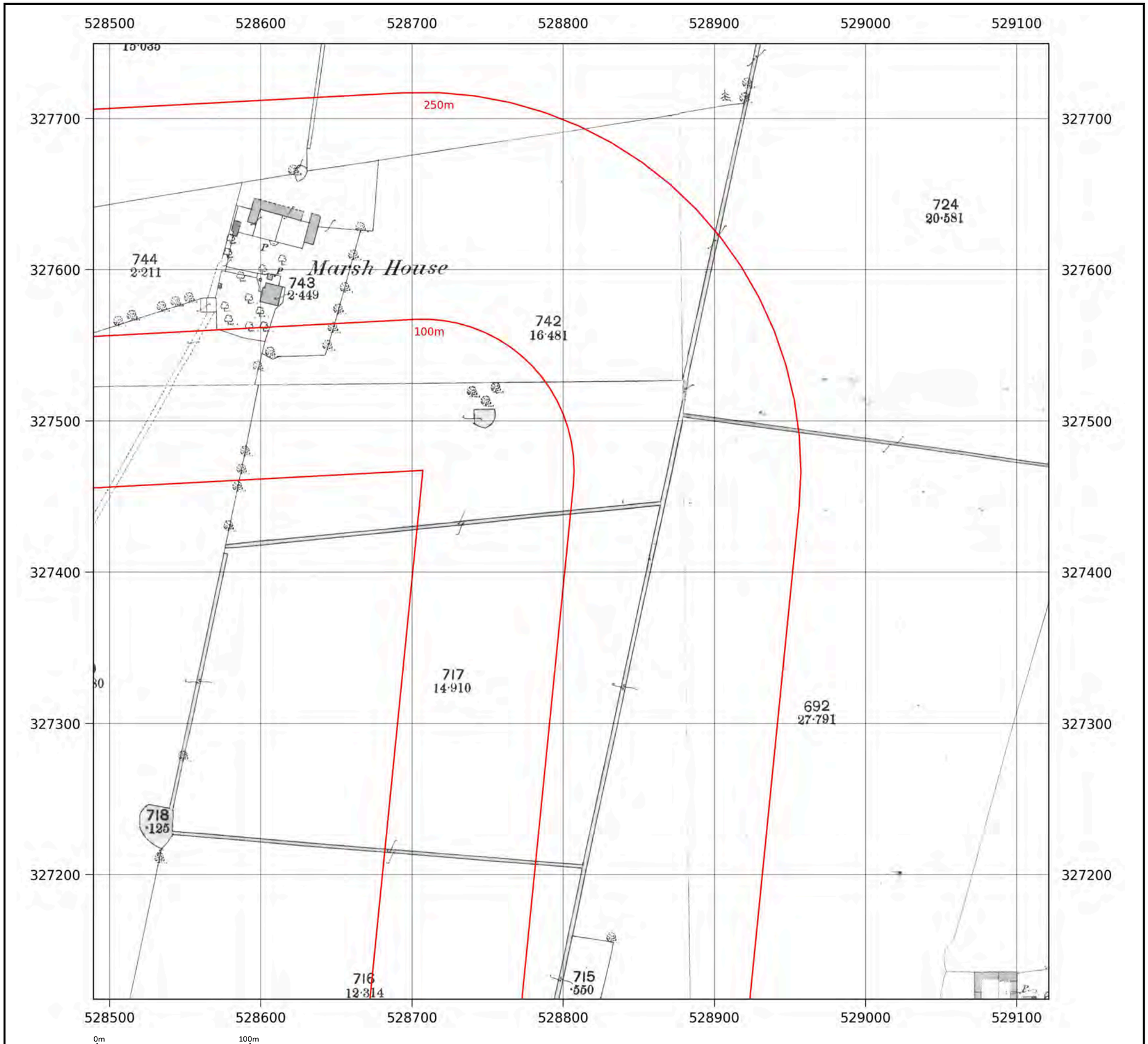

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
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Production date:	9 January 2026

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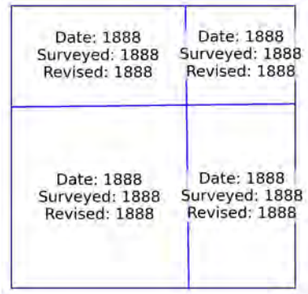

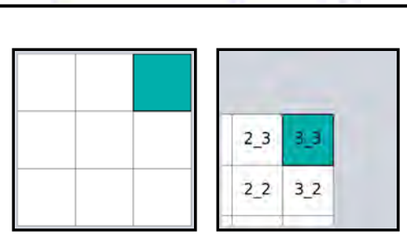

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Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	County Series
Map date:	1904
Scale:	1:2,500
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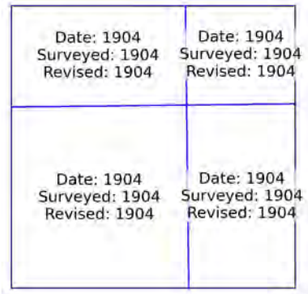

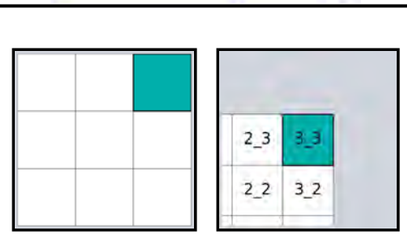

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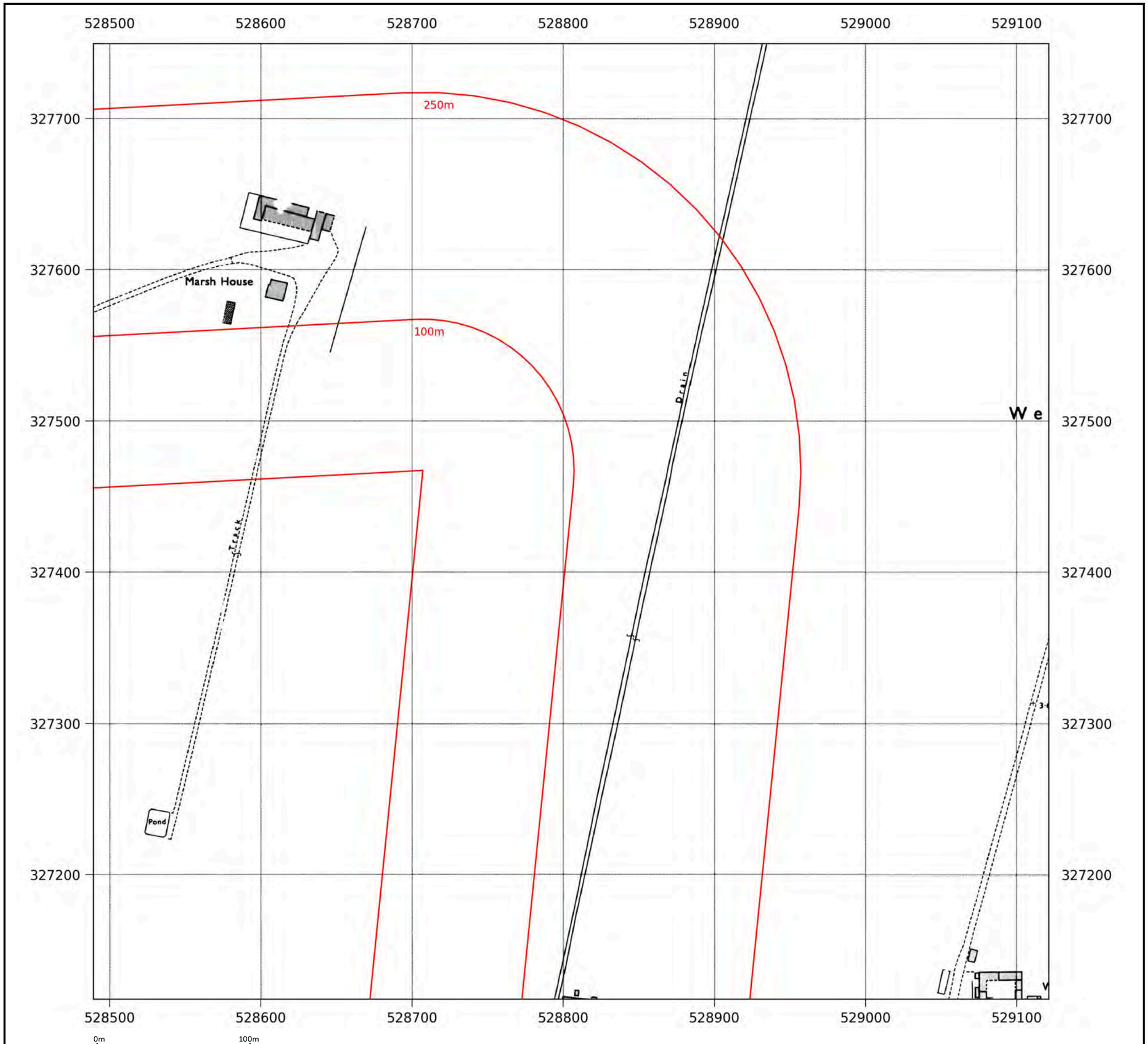

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Map Insight

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Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1973
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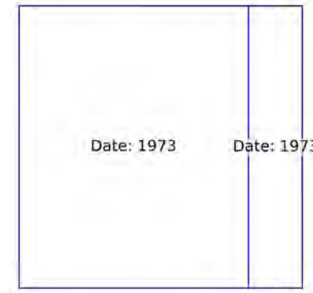

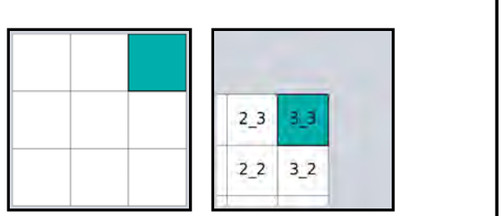

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Production date:	9 January 2026

Map name:	National Grid
Map date:	1973
Scale:	1:2,500
Printed at:	1:2,500

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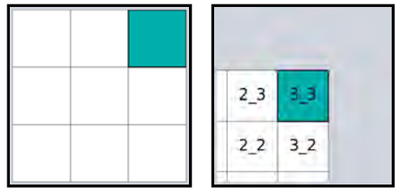
Date: 1973
Surveyed: 1971
Revised: 1971
Copyright: 1973
Levelled: 1965



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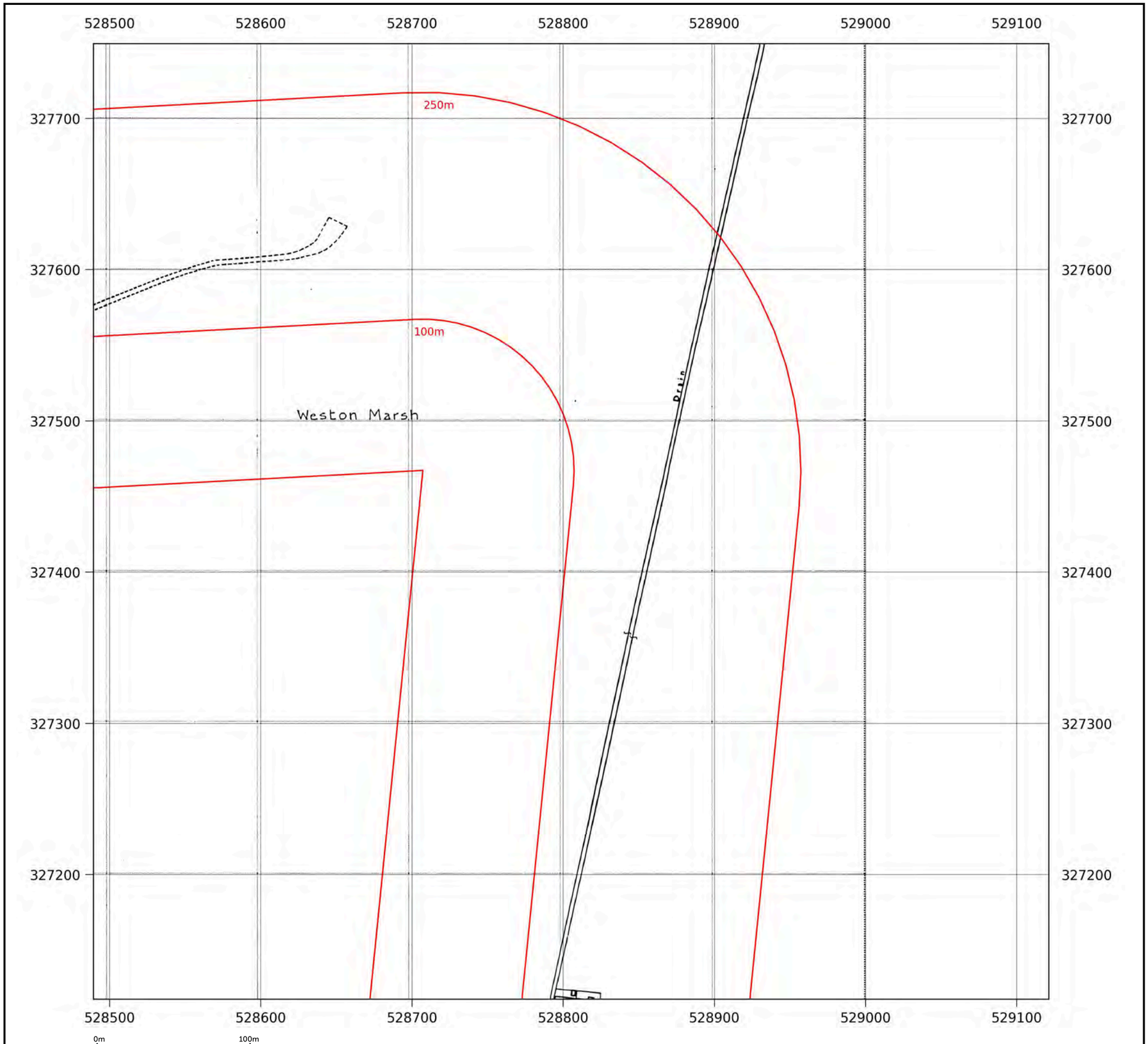

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Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	National Grid
Map date:	1987
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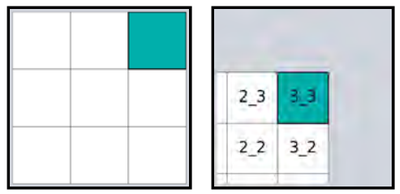

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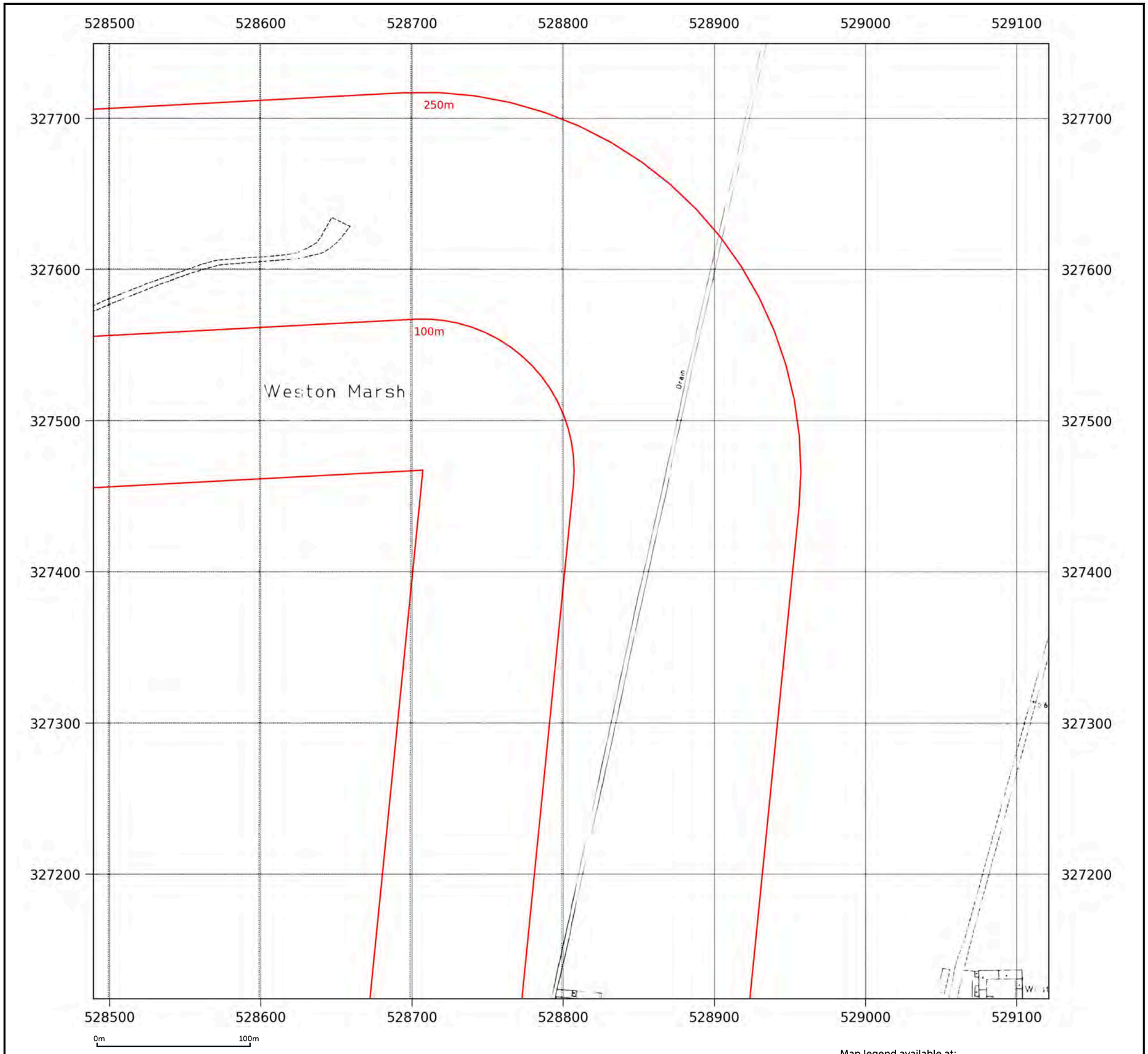

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Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

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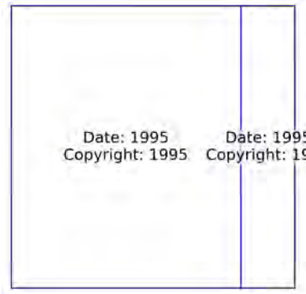

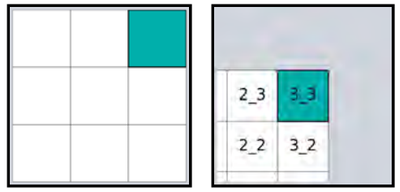

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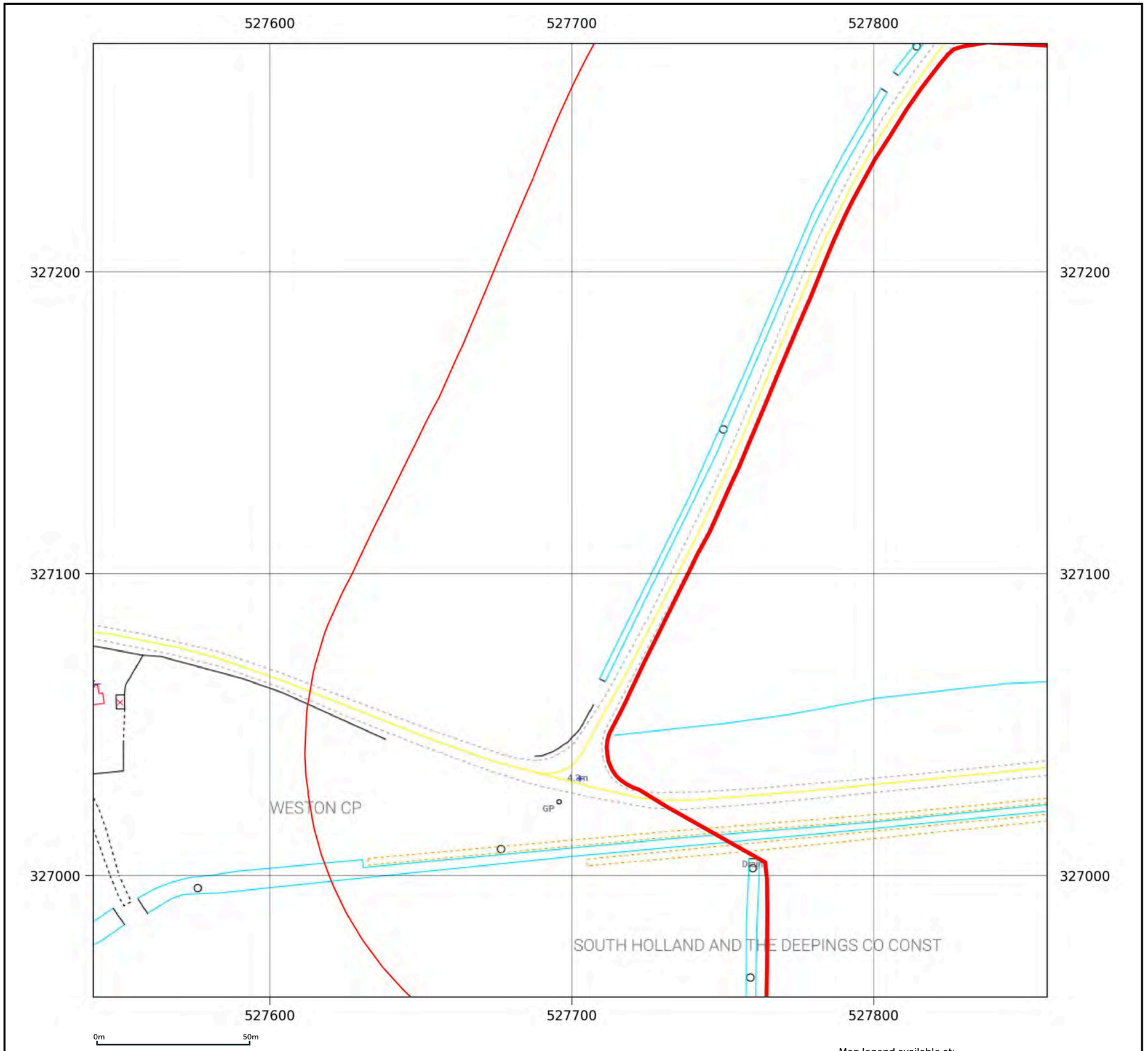

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Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	LandLine
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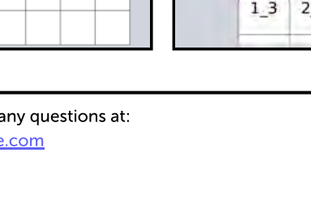

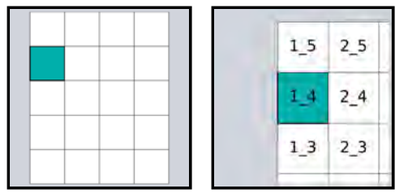

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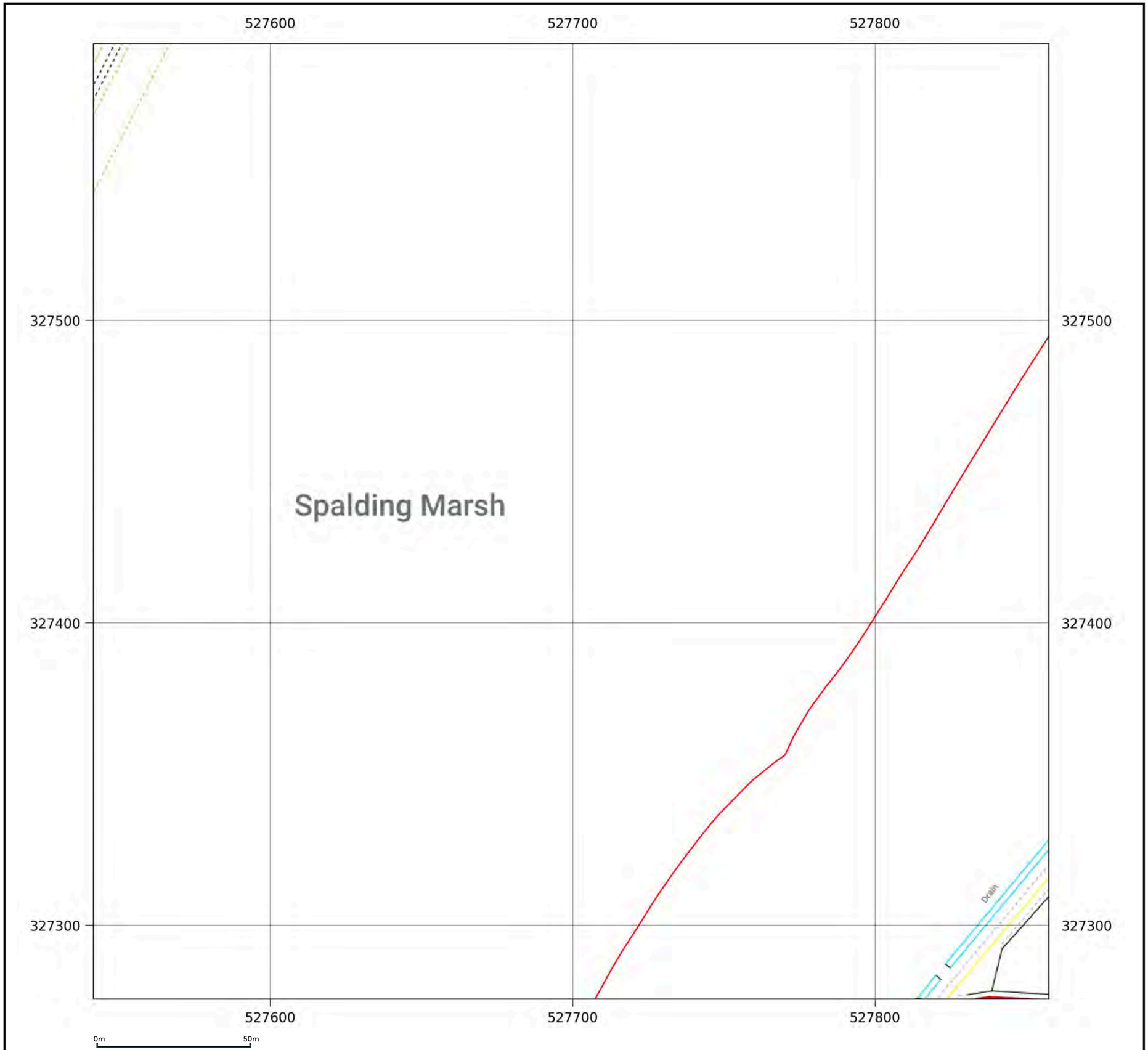

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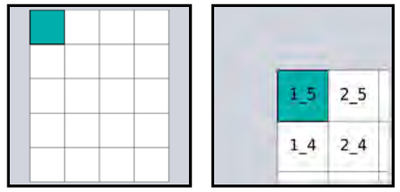

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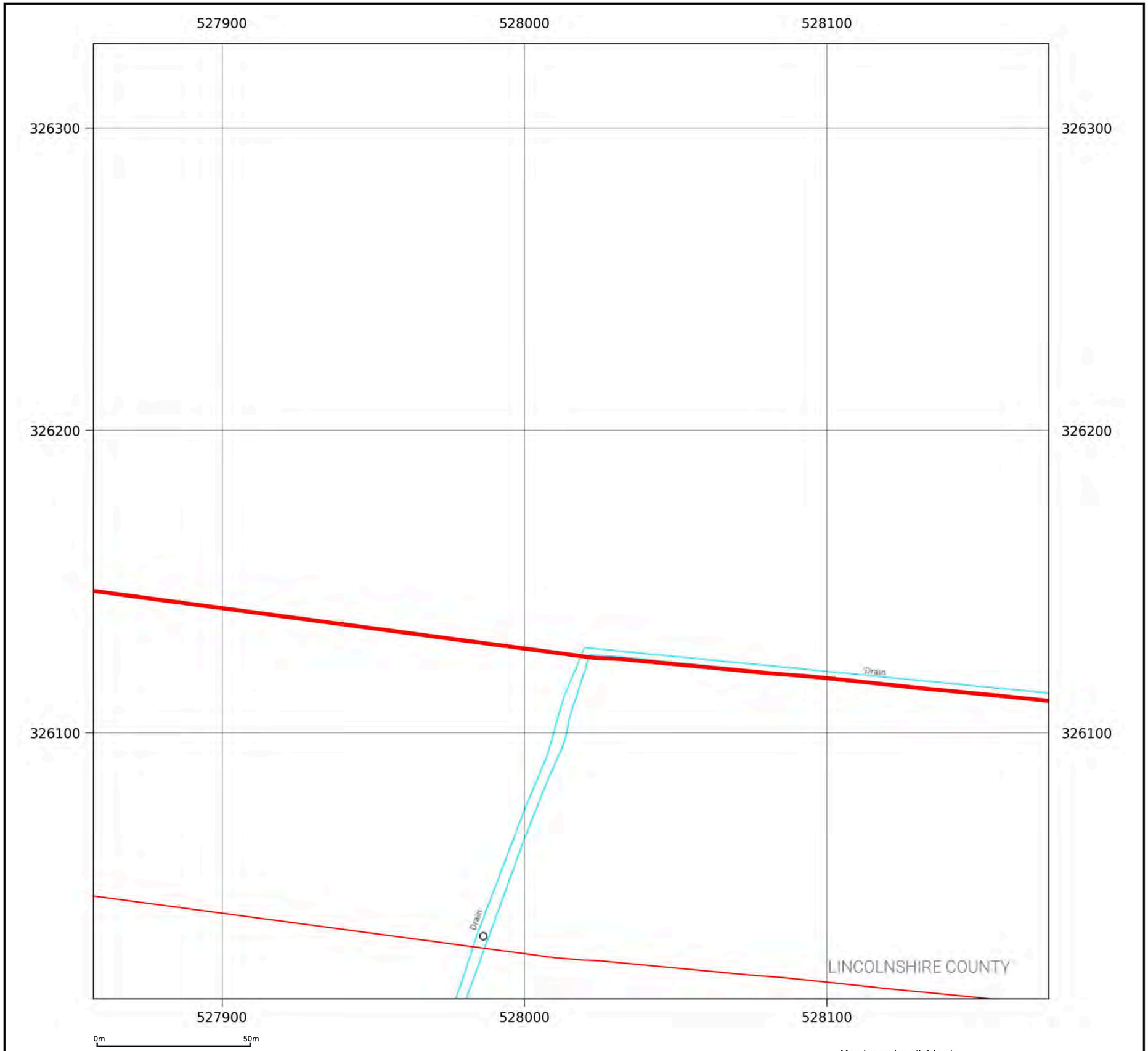

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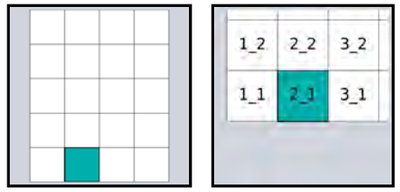

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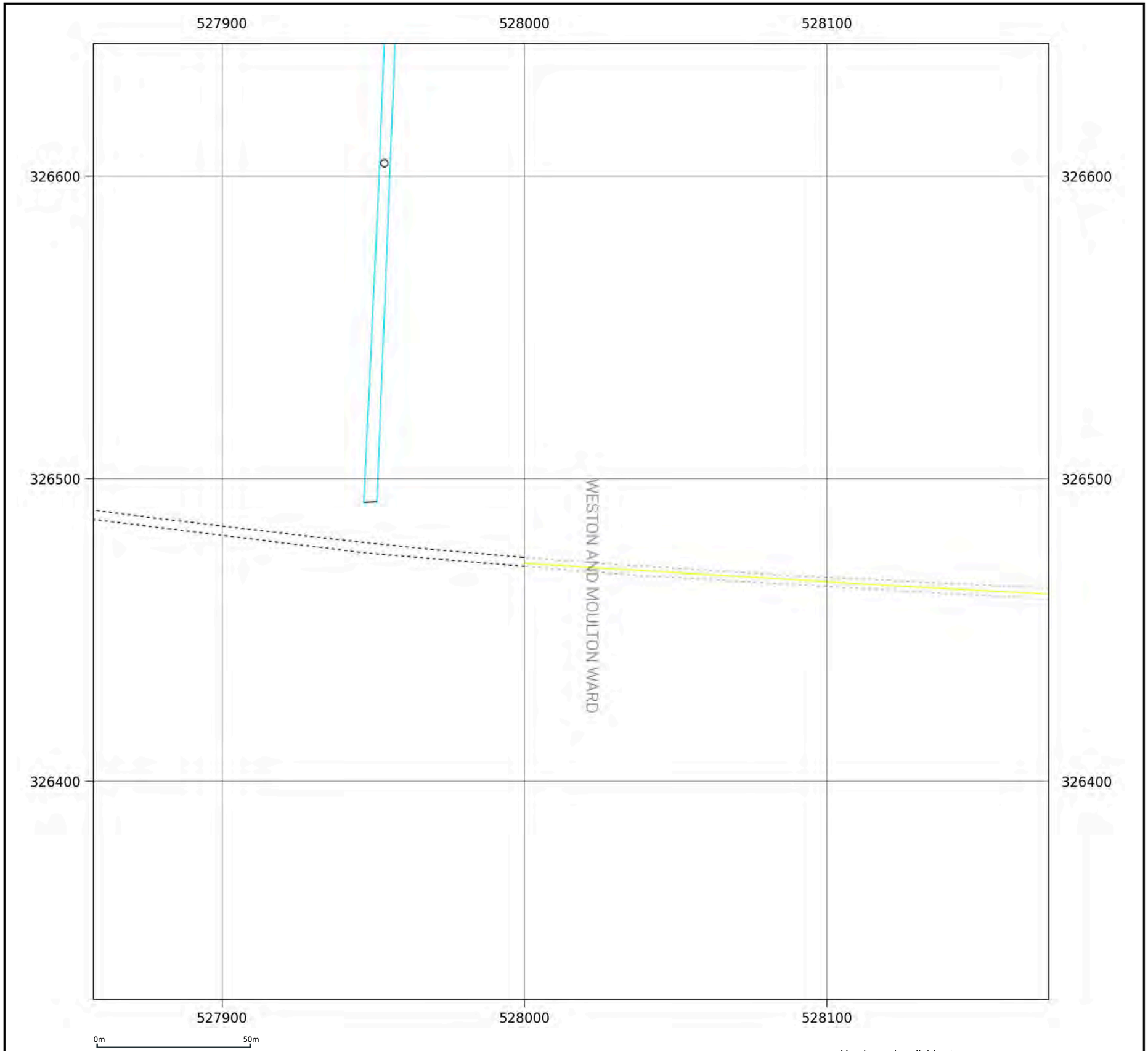

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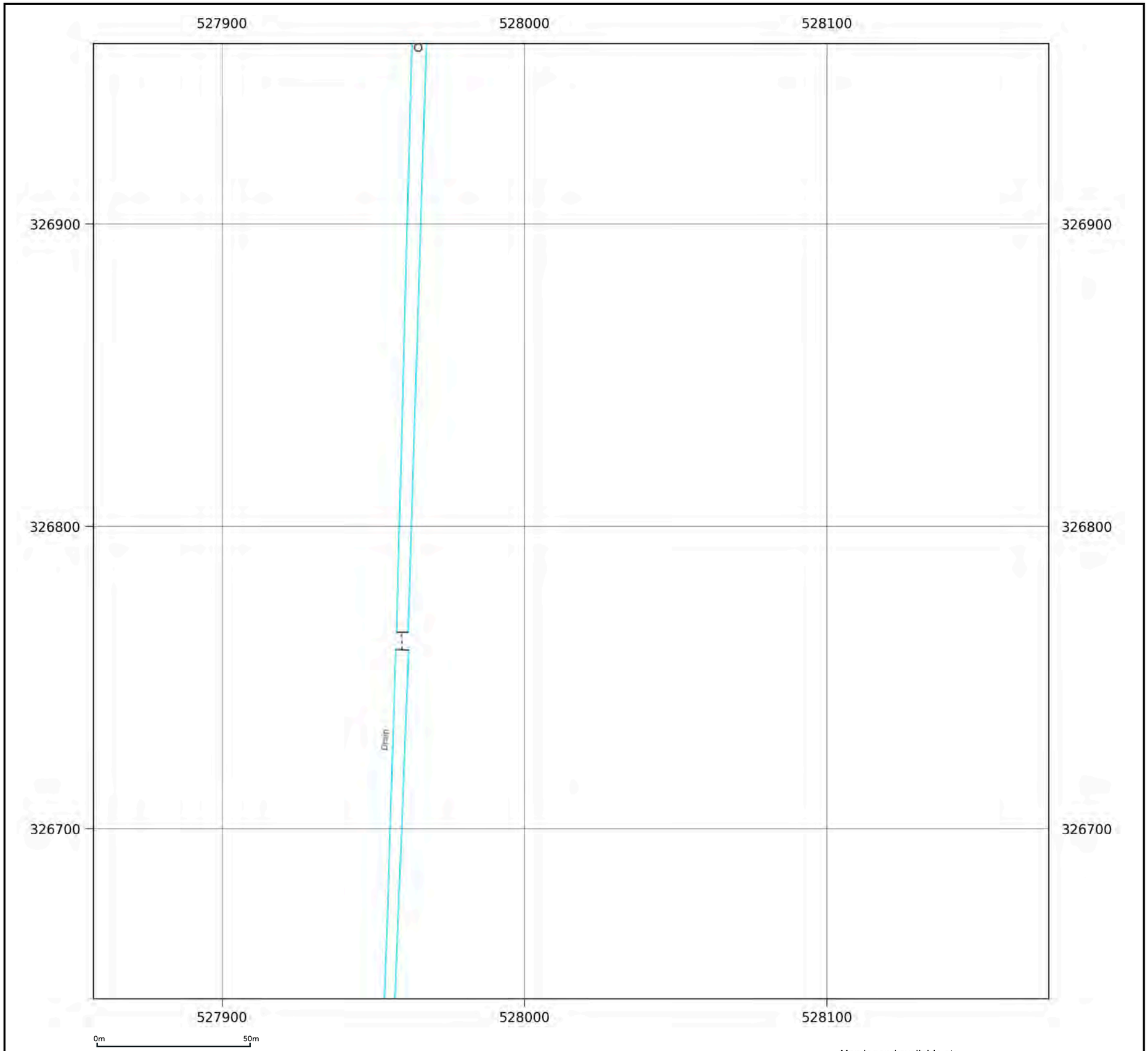

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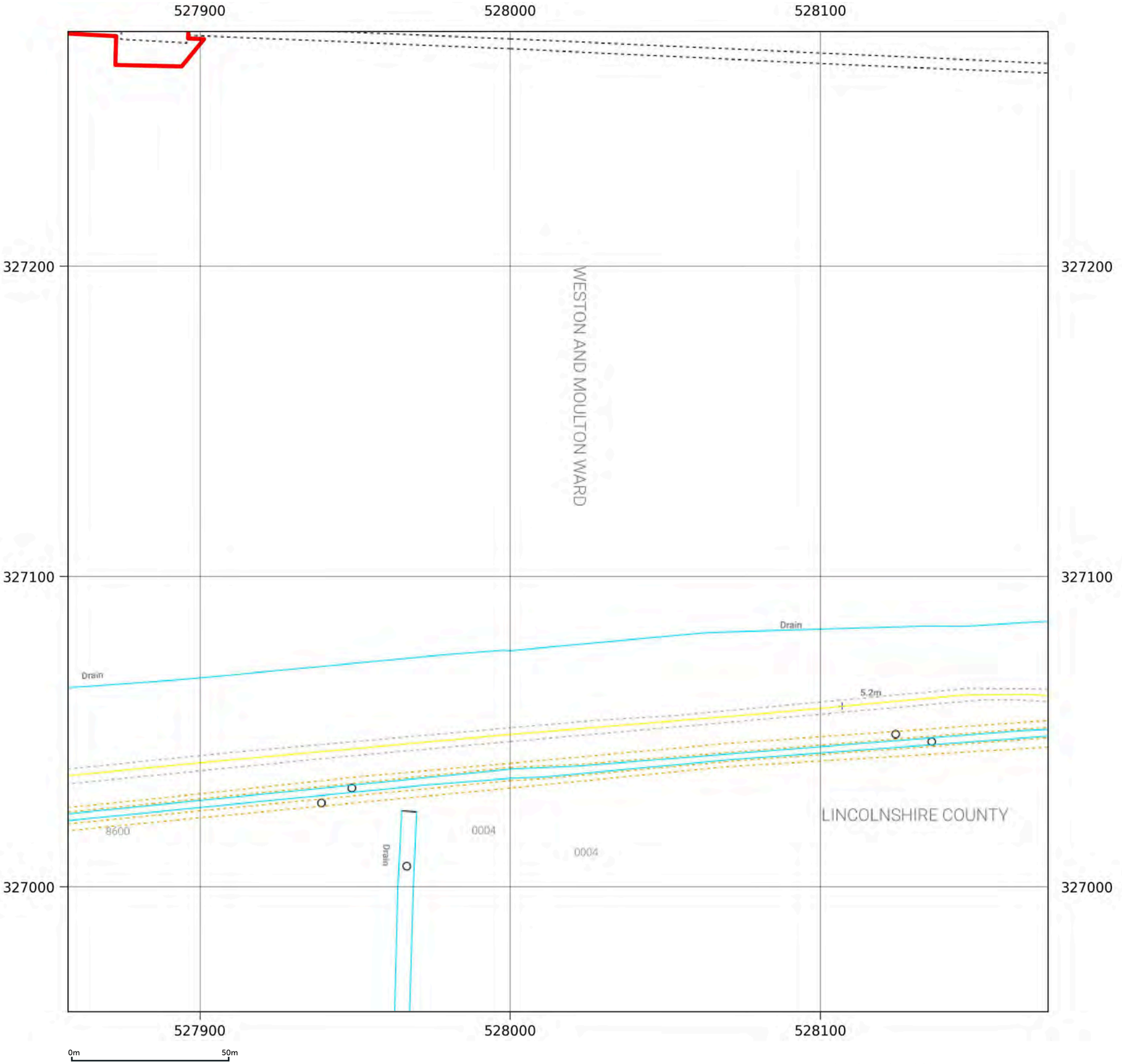

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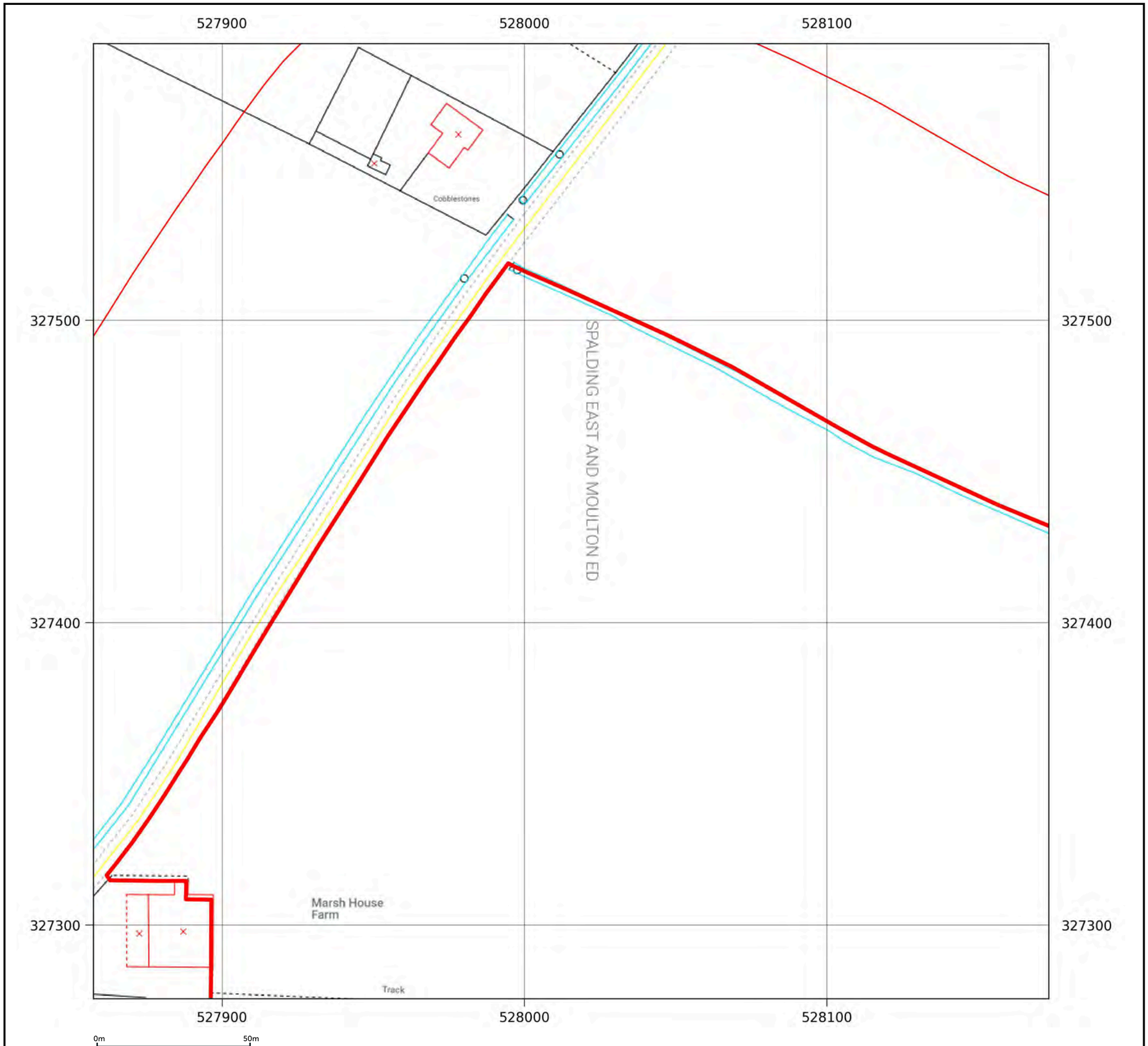

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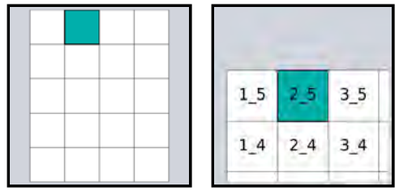

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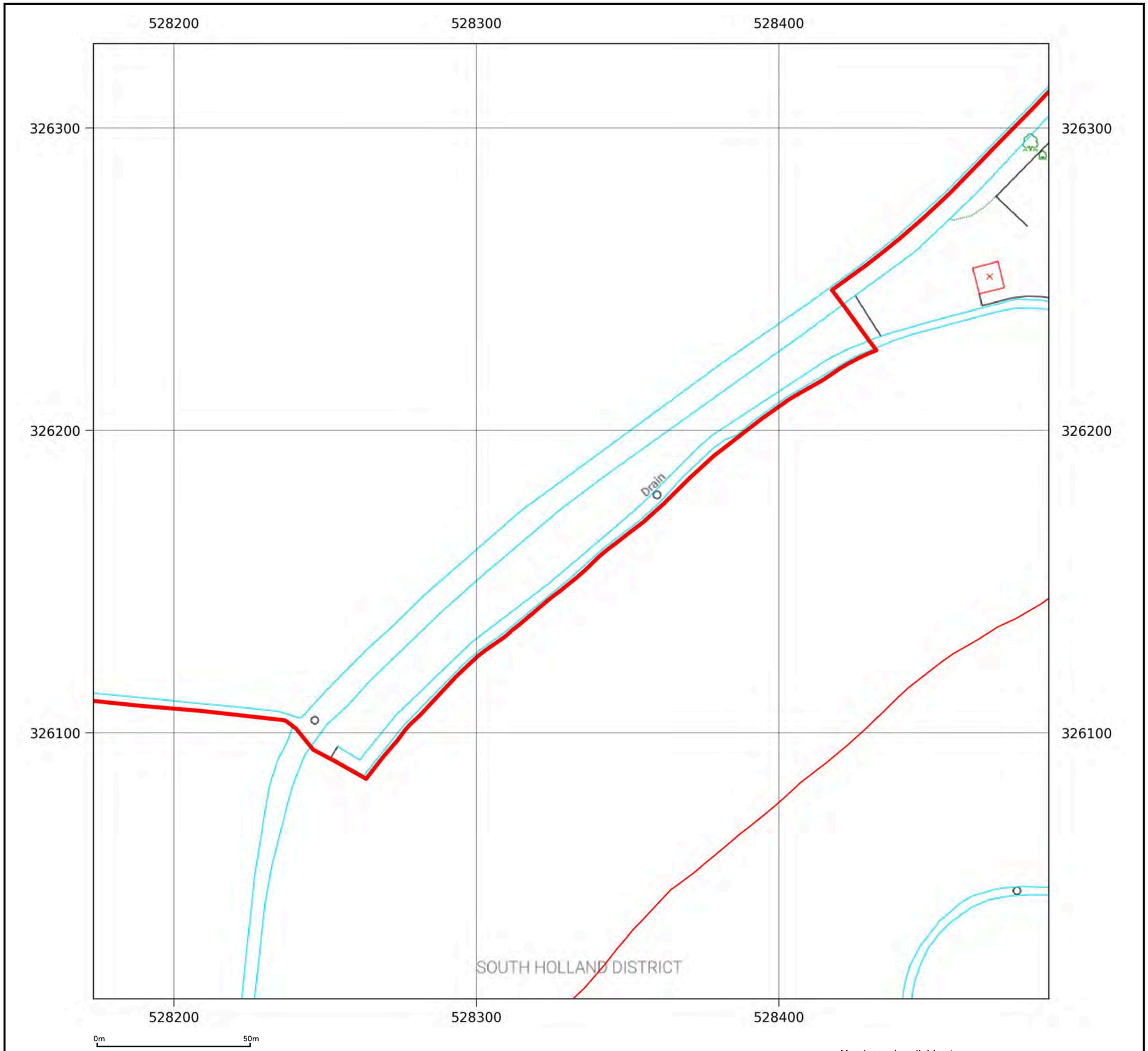

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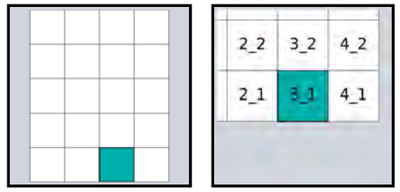

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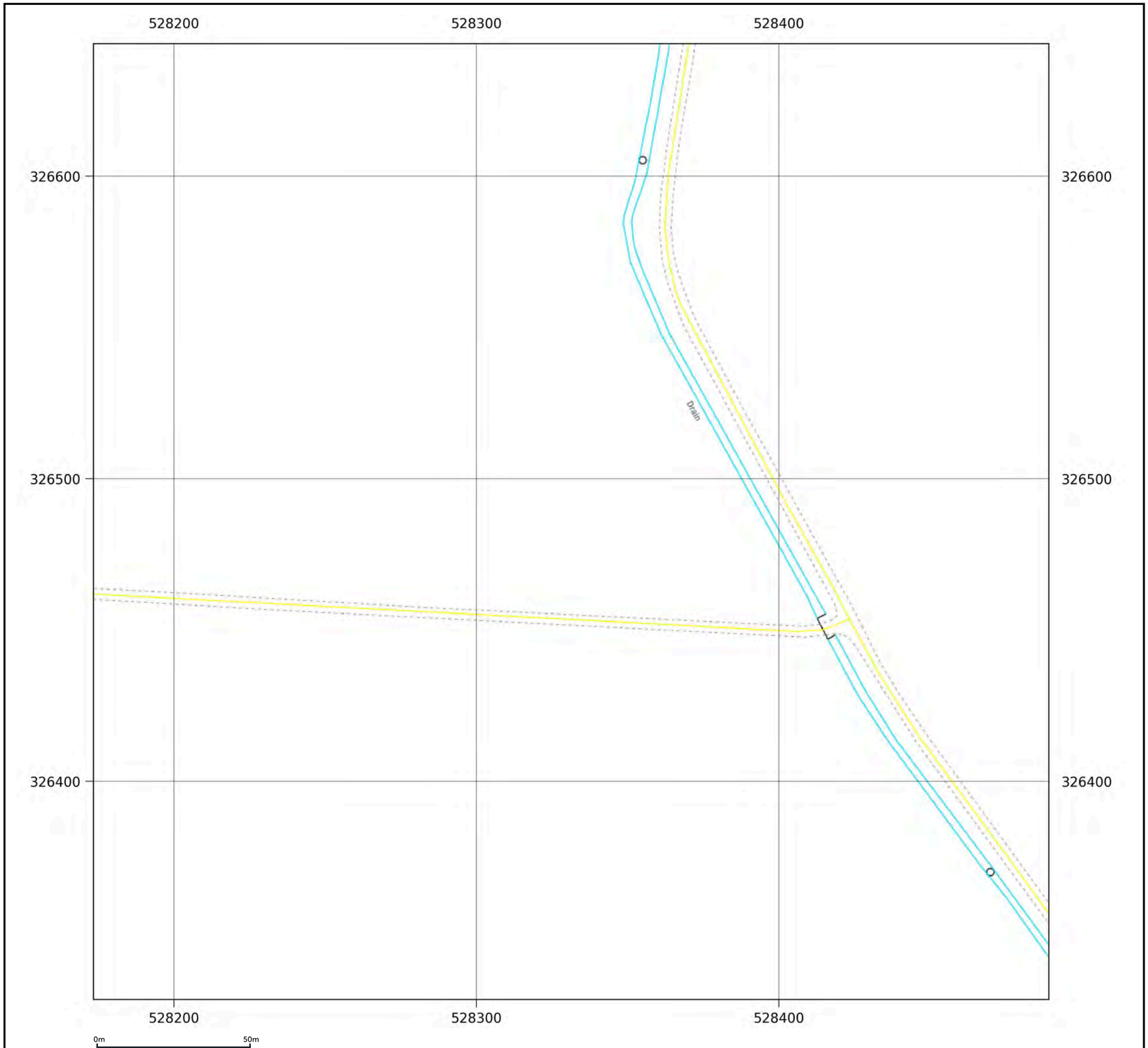

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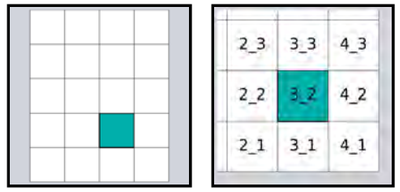

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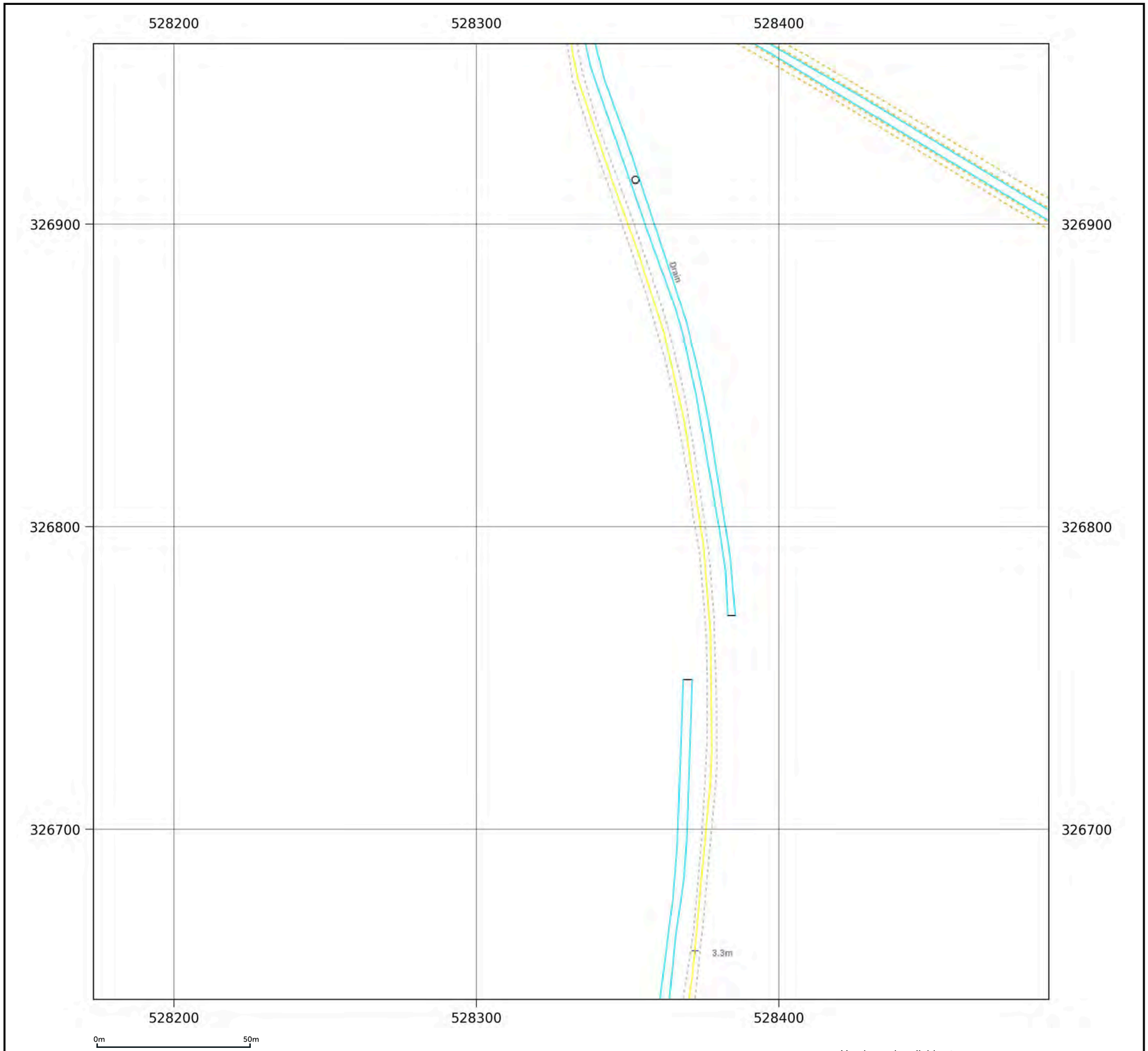

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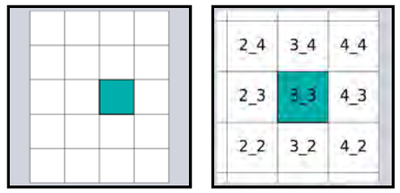

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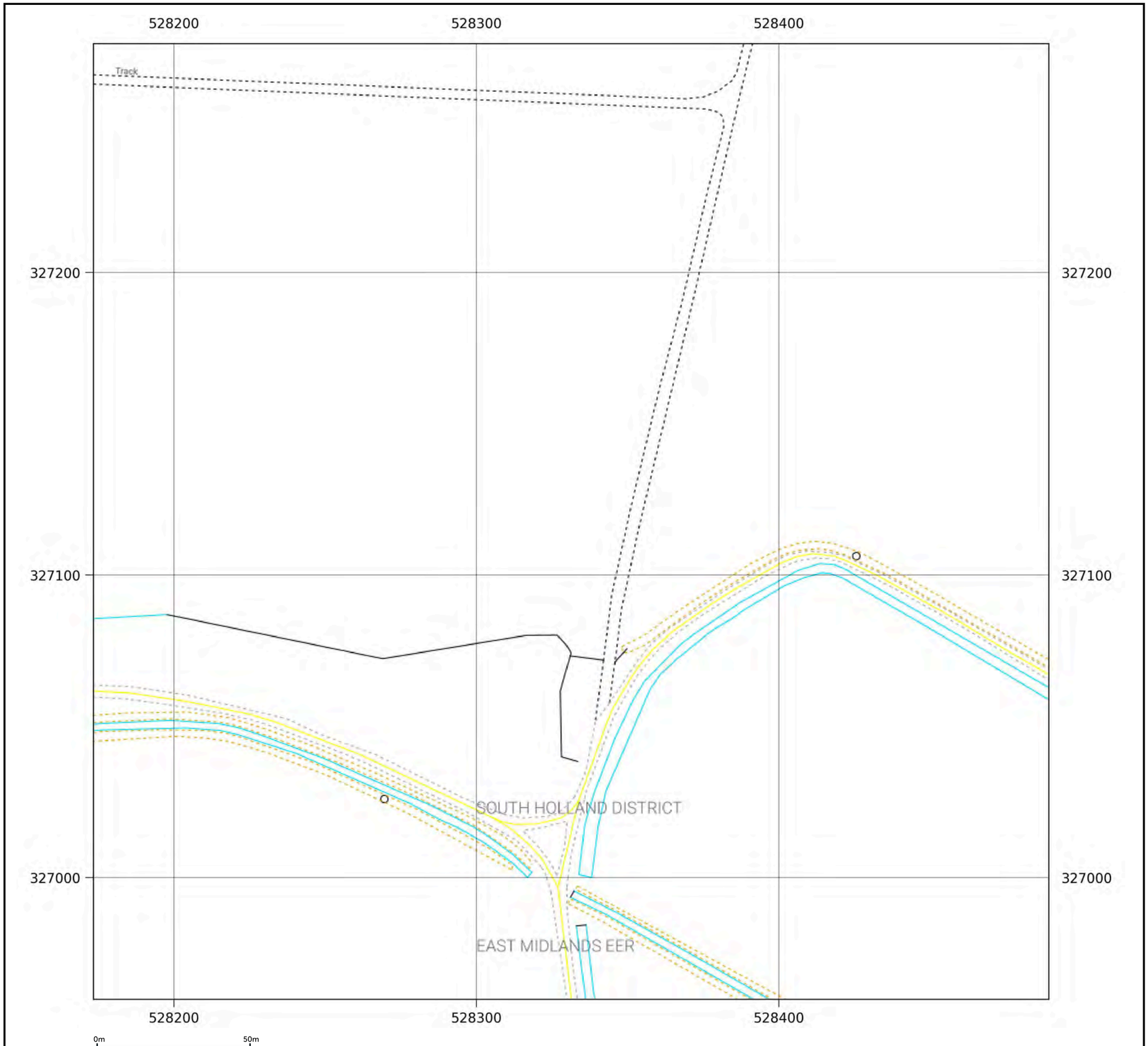

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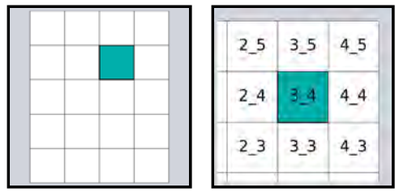

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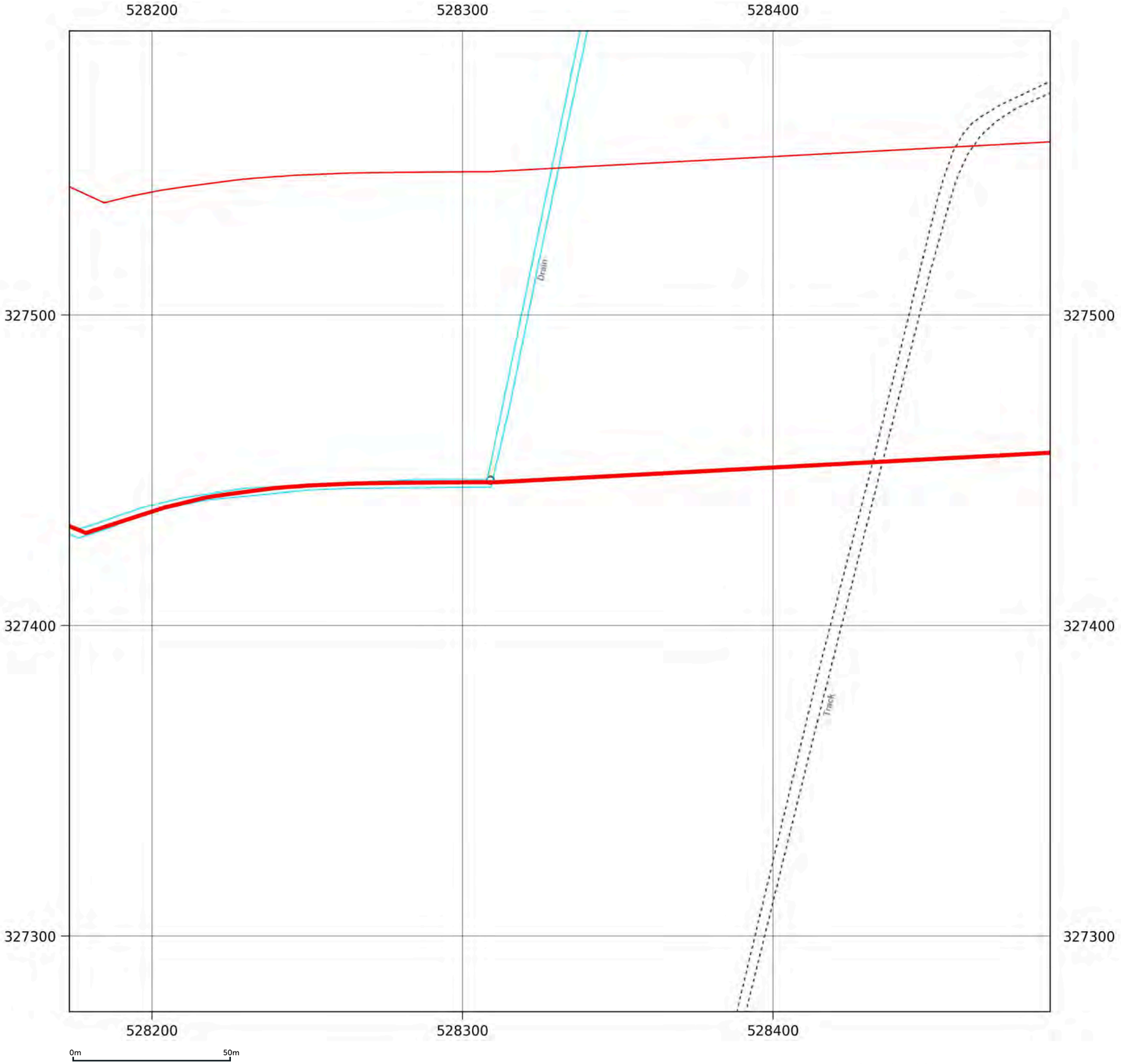

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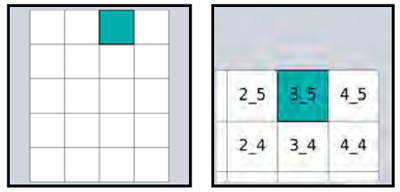

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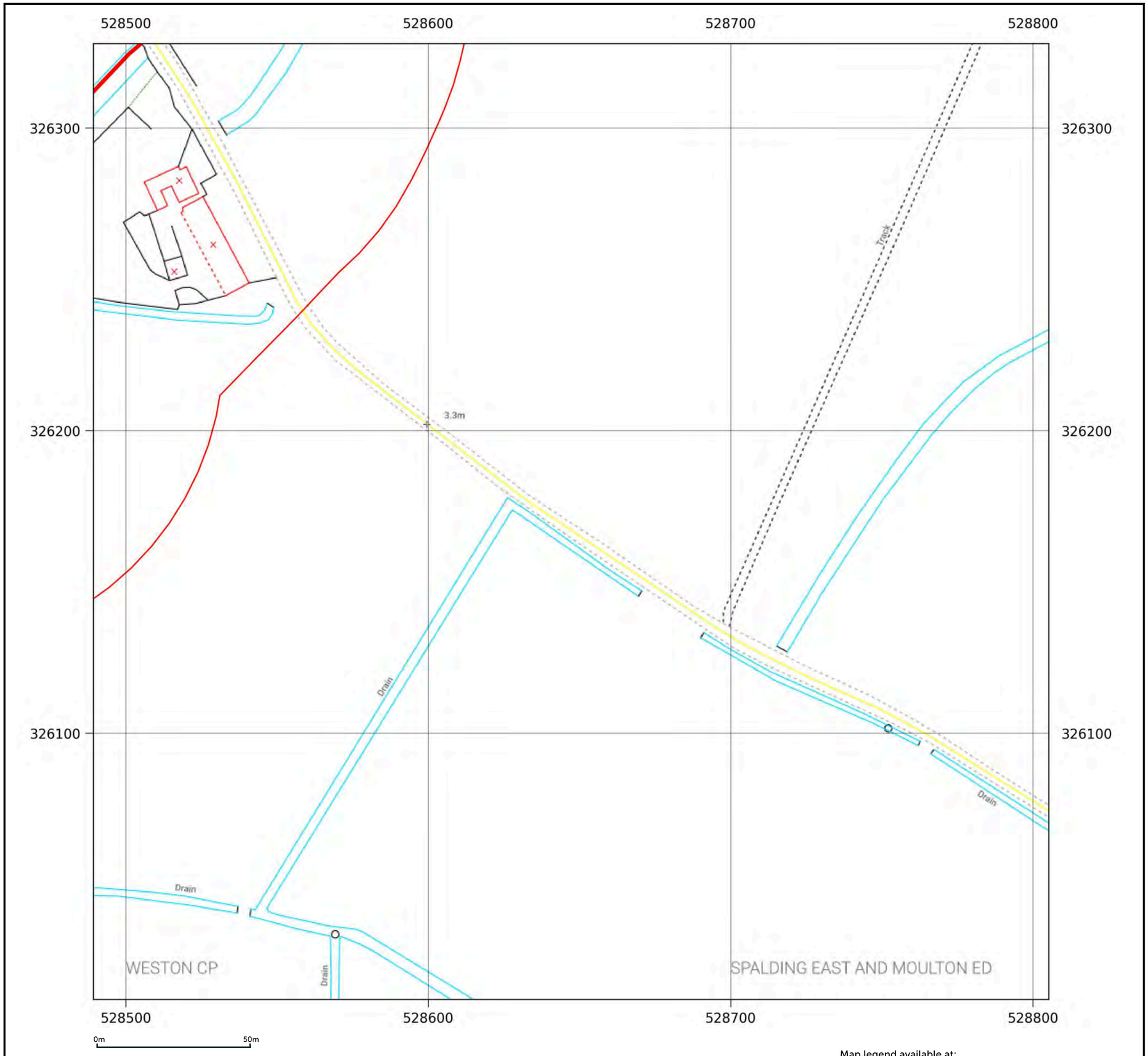

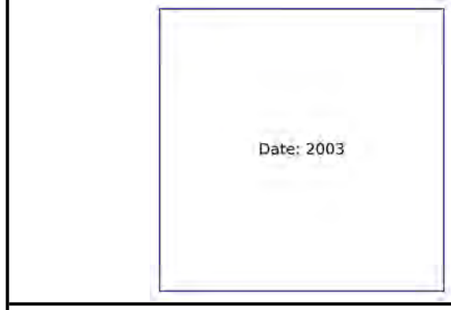

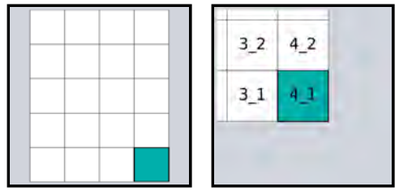

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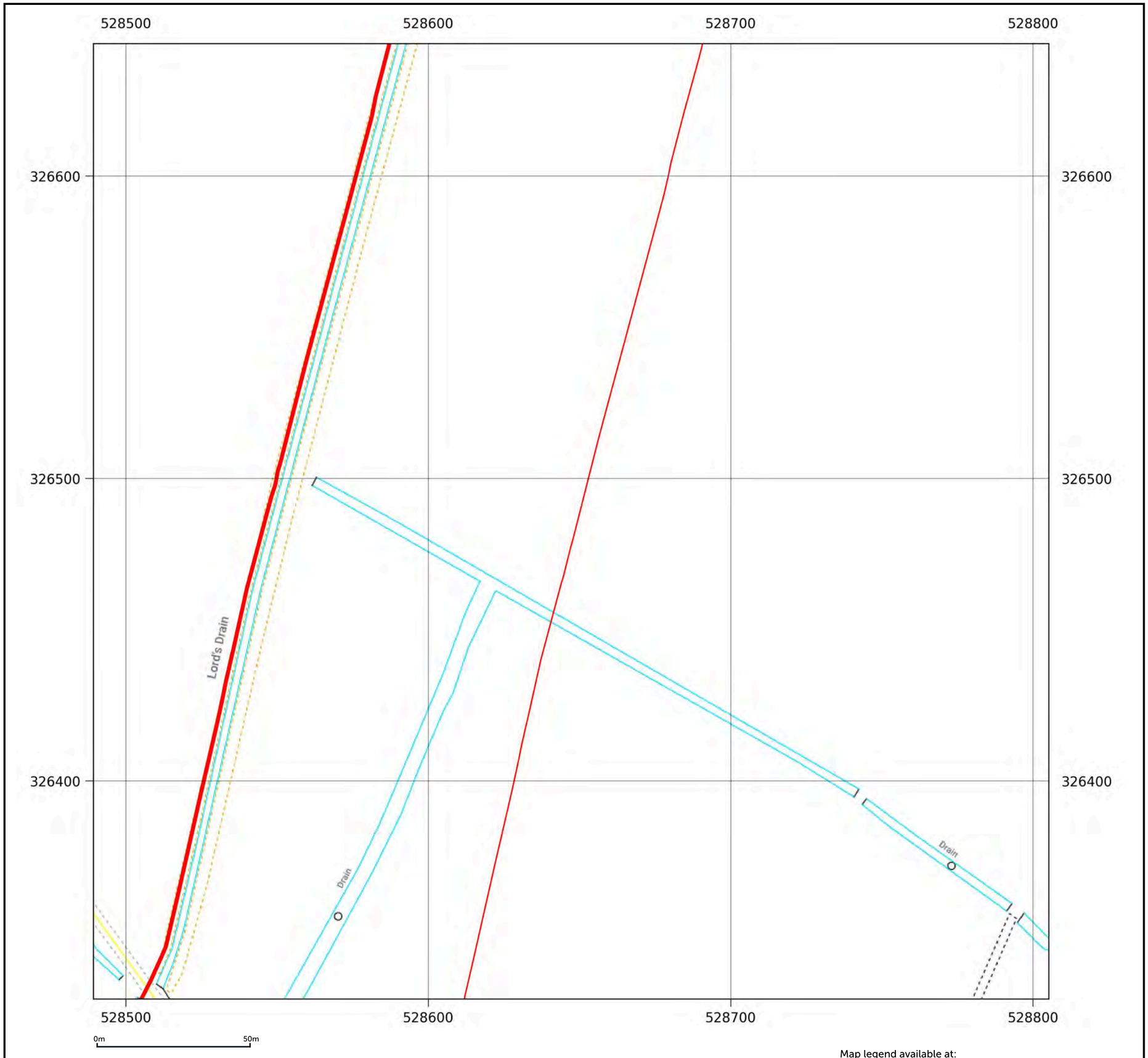

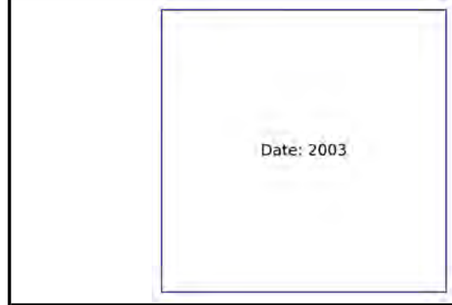

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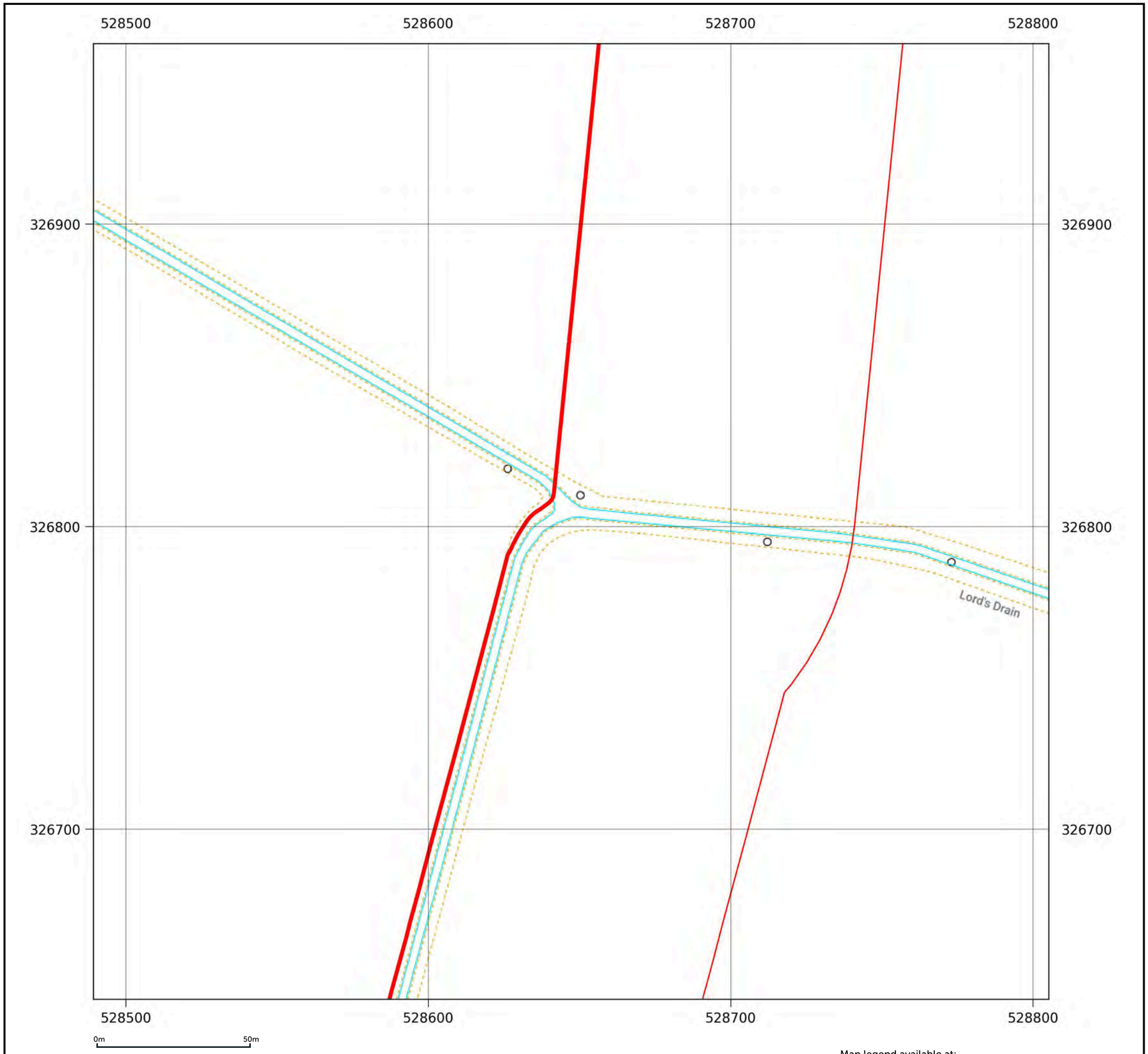

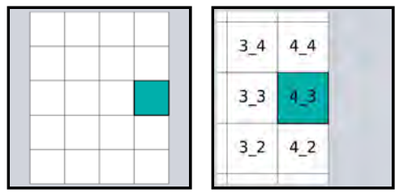

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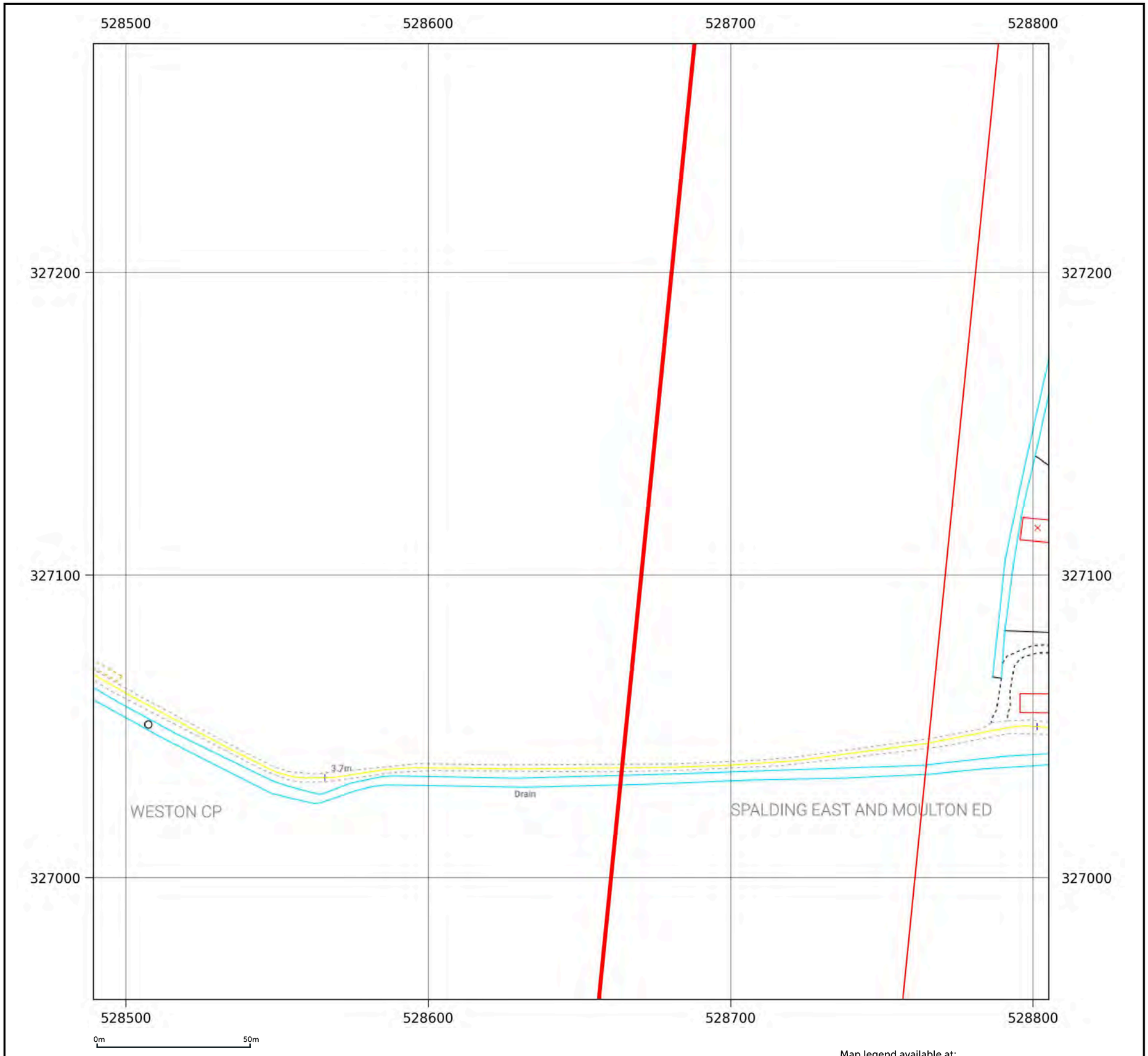

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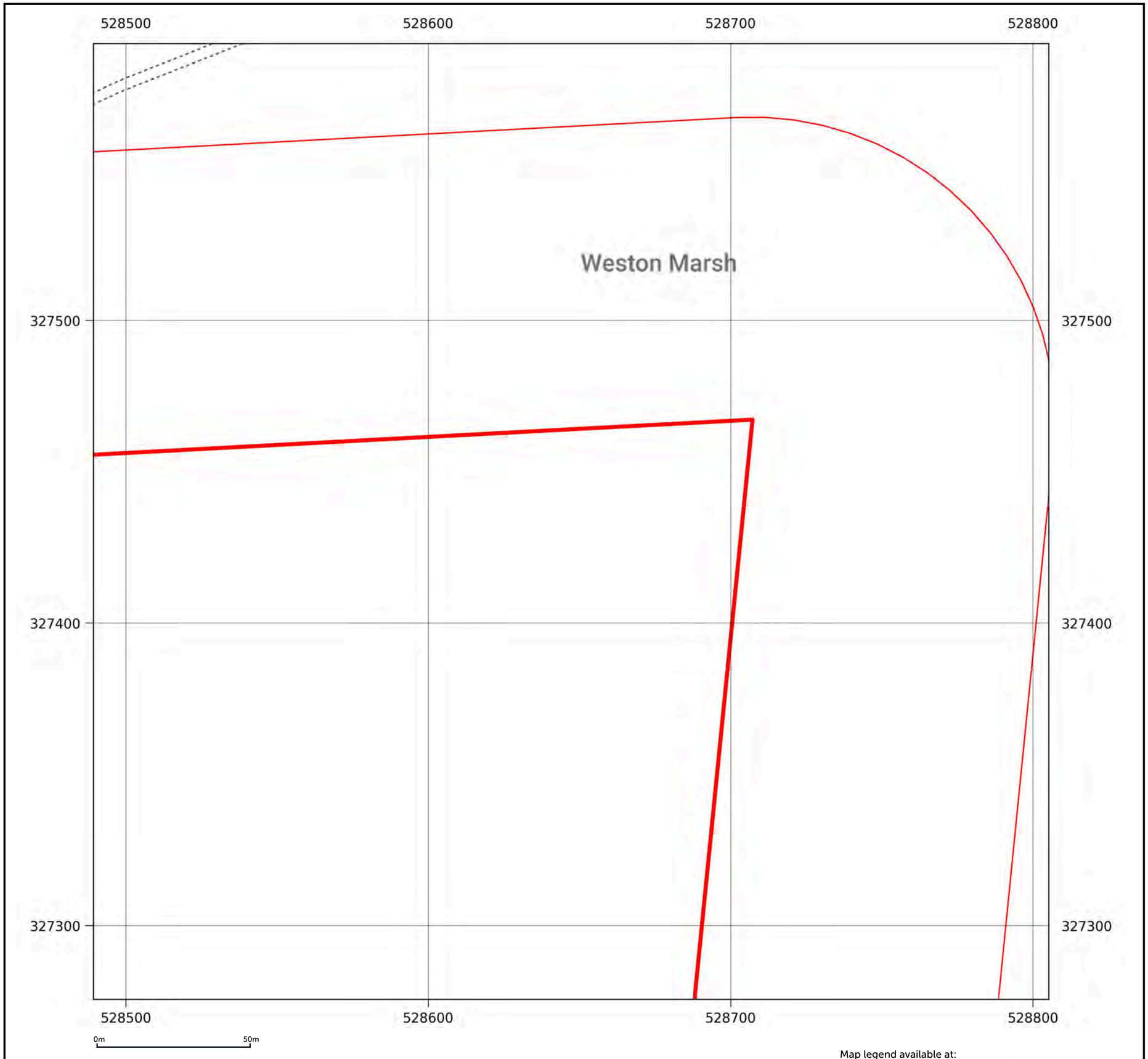

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Grid ref:	528182.83, 326809.92
Production date:	9 January 2026

Map name:	LandLine
Map date:	2003
Scale:	1:1,250
Printed at:	1:1,250

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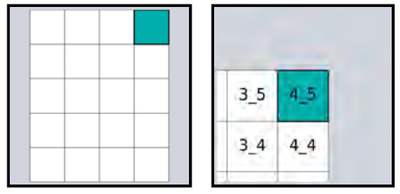

Contact us with any questions at:
info@groundsure.com
01273 257 755

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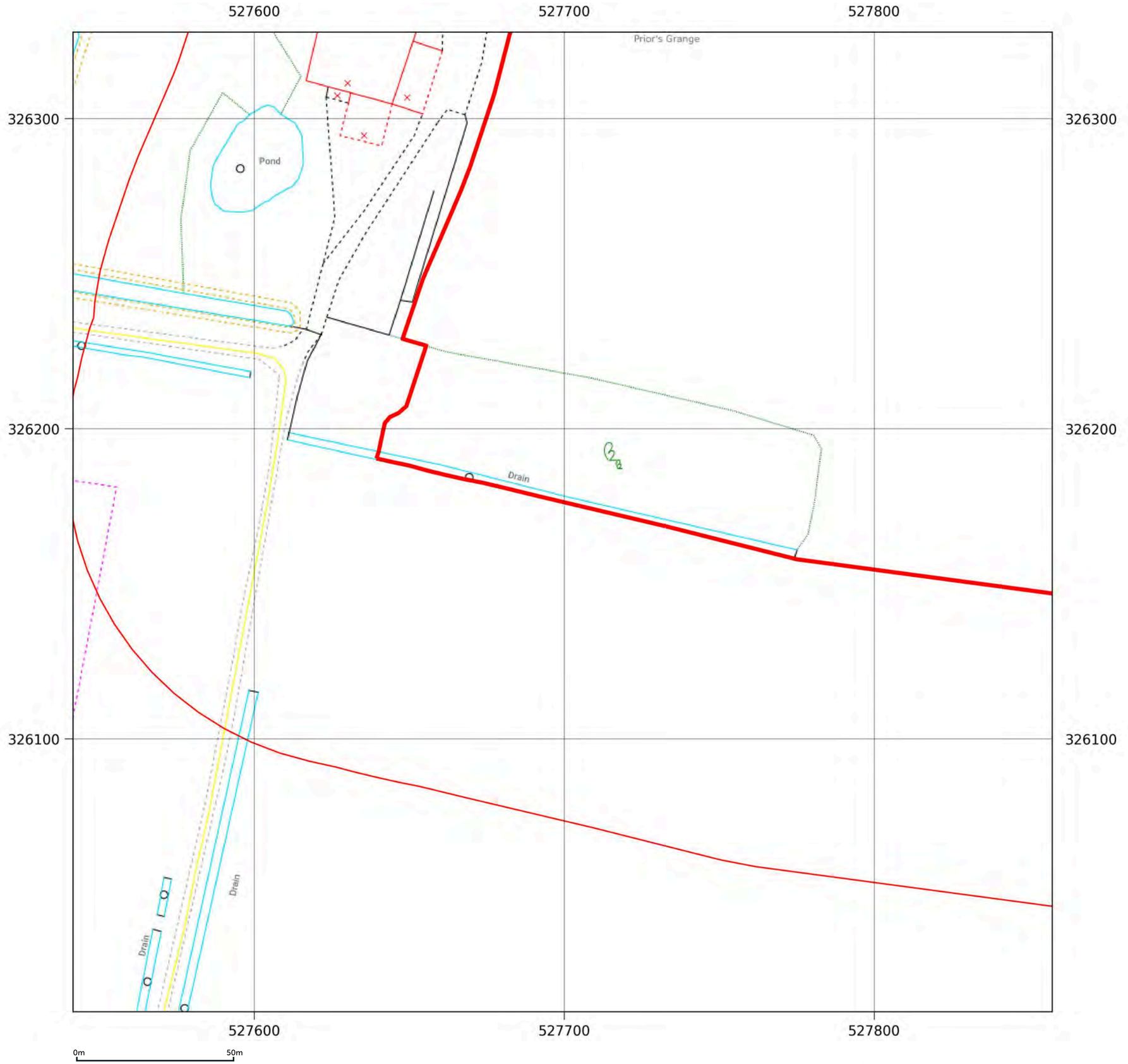

Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Meridian Solar - Grid Connection Route Weston Marsh Extension
Client ref:	60753382 (PO number to follow)
Report ref:	GS-7P8-TZ7-5FY-38H
Grid ref:	528182.83, 326809.92
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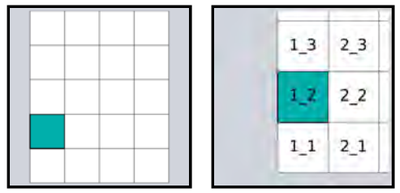

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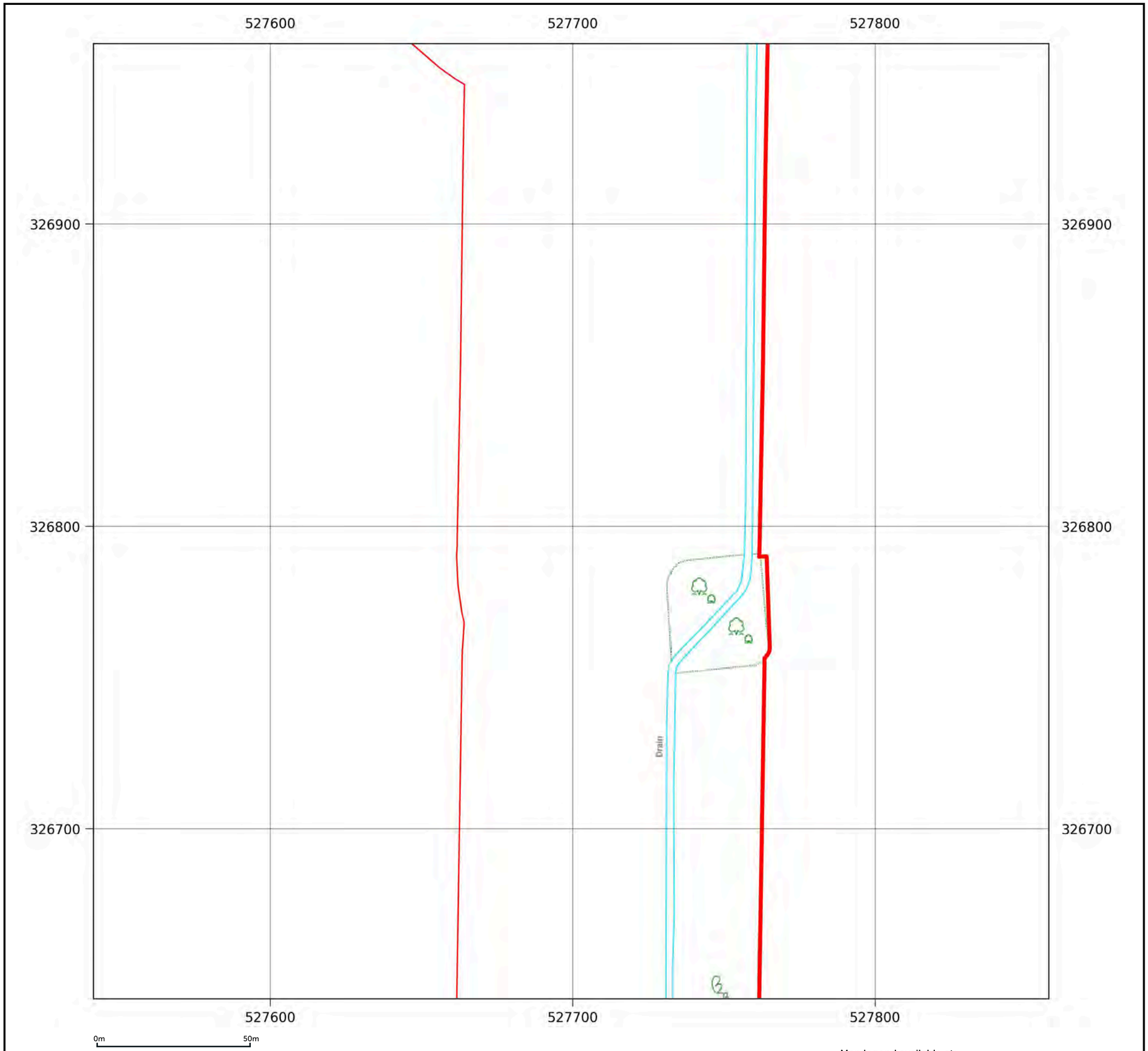

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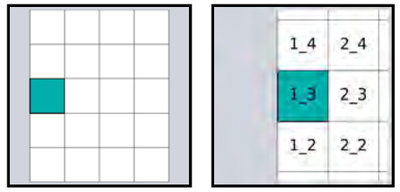

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Annex E BGS Borehole Records

NGRC

BOREHOLE RECORDS

ADJUSTMENT FORM

QUARTER SHEET TF22NE.

BH REGISTRATION NUMBER 73.

RECORDS ENTERED AND HELD BY WALLINGFORD

BH REGISTRATION NUMBER(S)

1443/52

INLAND WATER SURVEY

RECORDS OF WELL-MEASUREMENTS

SCHOOL : Spalding Gramma School.

SIX-INCH FIELD-SLIP : Lincs. 134 NE/W

Well No.	Location of Site and notes on character of water, etc.	Height of Surface above O.D.	Total Depth of Well	Depths to Water					
				Mar. 1937	Oct. 1937	Mar. 1938	Oct. 1938	Mar. 1939	Oct. 1939
52	At Barn 750 yds. E.N.E. of Cowbit Farm, Spalding Marsh, Spalding	ca. 18'	10'		5'6	1'10"			

NGR TF 22 NE 280 272.

TF 22 /16

D 31452-1 1000 D/d 8506 2/37 R P