

Botley West Solar Farm

Environmental Statement

Volume 3

Appendix 11.13: Cable Routes - Botley Central Site Area to Southern Site Area - Land Parcel 16 Desktop Study and Preliminary Risk Assessment

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Glossary

Term	Meaning		
The Applicant	SolarFive Ltd		
The Project	The Botley West Solar Farm (Botley West) Project		
Conceptual Site Model	used to identify potential sources, pathways and receptors and how they interact (i.e. potential pollutant linkages) on site post development		
Controlled Waters	Controlled waters means territorial waters within the 3 nautical mile limit, coastal waters extending inland, inland waters and ground water		
Desk Top Study	A desk study is the collation and review of information already available in the public domain and is carried out at an early stage of site appraisal and forms the basis of the preliminary risk assessment		
Pathway	How the contaminant may be expected to move/migrate to a receptor		
Preliminary Risk Assessment	Report that presents a summary of readily-available information on the geotechnical and/or geo-environmental characteristics of the site and provides a qualitative assessment of geo-environmental and/or geotechnical risks in relation to the proposed development.		
Principal Aquifer	These formations provide a high level of water storage and may support water supply and / or river base flow on a strategic scale		
Receptor	Target that could be adversely affected by contaminants		
Secondary A Aquifer	These formations are formed of permeable layers capable of supporting water supplies at a local scale, in some cases forming an important source of base flow to rivers.		
Secondary B Aquifer	These formations are generally formed of lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering		
Secondary Undifferentiated Aquifer	Secondary undifferentiated are aquifers where it is not possible to apply either a Secondary A or B definition because of the variable characteristics of the rock type. These have only a minor value		
Site of Special Scientific Interest	Sites designated by Natural England under the Wildlife and Countryside Act 1981. This can include sites of national and international importance for sediments, rocks, fossils, and features of the landscape		
Source	Source of contamination		
Unproductive Strata	These formations have a low permeability and have negligible significance for water supply or base flow		





Abbreviations

Abbreviation	Meaning
AOD	Above Ordnance Datum
bgl	Below Ground Level
BGS	British Geological Survey
CIRIA	Construction Industry Research and Information Association
COMAH	Control of Major Accident Hazards
CSM	Conceptual Site Model
DTS	Desk Top Study
EA	Environment Agency
HDD	Horizontal Directional Drilling
NGET	National Grid Electricity Transmission
NGR	Ordnance Survey National Grid Reference
NIHHS	Notification of Installations Handling Hazardous Substances Regulations
NPPF	National Planning Policy Framework
NVZ	Nitrate Vulnerable Zone
PAOC	Potential Areas of Concern
PRA	Preliminary Risk Assessment
PV	Photovoltaic
PVDP	Photovolt Development Partners GmbH
RBMP	River Basin Management Plan
SAC	Special Area of Conservation
SPA	Special Protection Area
SPZ	Groundwater Source Protection Zone
SSSI	Site of Special Scientific Interest
UXO	Unexploded Ordnance
WFD	Water Framework Directive

Units

Unit	Description	
%	Percentage	
m	Metres	
kV	Kilovolt	
km	Kilometre	





Unit	Description
MW	Megawatt





Land Parcel 16 (Cable Route Botley Central Site Area Southern Site Area) DTP and PRA

1.1 Introduction

- 1.1.1 This Appendix of the Environmental Statement (ES) has been prepared by RPS on behalf of Photovolt Development Partners GmbH. (PVDP) for the Applicant, SolarFive Ltd. (SolarFive). This Appendix supports Chapter 11 of the ES.
- 1.1.2 The Project will be located in the county of Oxfordshire, across an area of approximately 1,300 ha. The Project extends from an area of land in the north, situated between the A4260 and the Dorn River Valley near Tackley and Wootton (Northern Site Area), through a central section, situated broadly between Bladon and Cassington (Central Site Area), and connecting to a section further south near to Farmoor Reservoir and north of Cumnor (Southern Site Area), where the Project will connect to the National Grid transmission network. The name 'Botley West' is derived from the location of the grid connection point. The consent being sought for the Project is a temporary one. Temporary consent is being sought for a 42-year period during which the solar farm will be constructed, operated and decommissioned.
- 1.1.3 The Project comprises three main development sites for installation of ground-mounted solar photovoltaic (PV) panels (Northern Site Area, Central Site Area and Southern Site Area) The Project's solar arrays will be connected by electrical cables within each of the Site Areas. The interconnecting cable routes between the Site Areas will largely follow the public highway, but some parts will cross land either leased by the Client or the subject of an easement agreement.
- 1.1.4 A Site Location Plan showing the location and order limits for The Project is presented as Drawing 1.
- 1.1.5 The 220 kV cables are required to connect the development sites with the main substation called Botley West. In order to provide sufficient detail for the PRA, the three main areas of The Project have been sub-divided by RPS into fourteen land parcels (referenced as Land Parcels 01 14) and two linking cable route corridors (referenced as Land Parcels 15 and 16). Land Parcel 1 was discounted from requirement for further assessment following completion of an initial EIA Scoping exercise undertaken by RPS in February 2023.
- 1.1.6 This report presents the DTS information and PRA for Land Parcel 16 (Cable Route). This comprises the cable route between The Central Site area and the Southern Site area. Drawings detailing the area under consideration are included as Drawing 2.
- 1.1.7 The Desk Study assessment is based upon a review of published information available from local, regional, and national agencies. The desk study information is derived from Insights Reports provided by Groundsure, Ref GS-2I7-N35-7VP-9KP and GS-VXZ-ISE-8WE-3DP (dated 2024) and presented in Annexes C and D respectively and supplemented with data from Groundsure reports GSIP-2022-12757-10510 and GSIP-2022-12757-10512, which were obtained in 2022 for Land Parcels 13 and 14, respectively. It should be noted





that the 2022 Groundsure reports above have been utilised for assessment of available data but do not show the cable routes on accompanying mapping as these were still to be confirmed at the time of acquisition. Finalised cable route options following design freeze included additional land at the point of the Thames Crossing covered by the 2024 Groundsure reports.

1.2 Objectives

- 1.2.1 The principal objectives of this assessment were as follows:
 - Establish from published sources the geological sequence for Land Parcel 16 and potential for ground instability to occur through development proposals and the extent and nature of any safeguarded minerals reserves.
 - To assess potential sources of contamination associated with historical and current land uses both within the route corridor and in the surrounding area.
 - To review the environmental setting to assess the sensitivity of the surrounding area to contamination/pollution.
 - To produce an outline Conceptual Site Model (CSM) detailing how any contamination may impact the identified receptors via pollutant linkages; and
 - To conclude on the likely requirement for any further assessment and ground investigation required in support of the planning application.
- 1.2.2 The PRA methodology utilised in the preparation of this assessment is presented in detail in Annex A.

1.3 Legislation and Guidance

- 1.3.1 The assessment has been undertaken in general accordance with British Standard BS EN ISO 21365:2020 and is considered suitable to meet the initial requirements of planning as outlined within the National Planning Policy Framework (NPPF). The assessment also reflects the recommendations of Environment Agency guidance, Land Contamination: Risk Management, (LCRM 2023).
- 1.3.2 This report has been produced in general accordance with:
 - Contaminated Land (England) Regulations 2006 (as amended).
 - DEFRA Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance (2012).
 - Environment Agency (2023) Land Contamination: Risk Management (LCRM 2023).
 - National Planning Policy Framework (2023).
 - British Standard requirements for the 'Code of practice for ground investigations' (ref. BS5930:2015+A1:2020); and,
 - British Standard requirements for the 'Investigation of potentially contaminated sites - Code of practice' (ref. BS10175:2011+A2:2017).





1.3.3 Details of the limitations of this type of assessment are described in Annex B.

2 SITE DESCRIPTION AND DESK STUDY

2.1 Site Location (Land Parcel 16)

2.1.1 Land Parcel 16 comprises the options for the proposed 275 kV cable route linking Land Parcels 5 to 13 forming The Central Site area with Land Parcel 14 in the Southern Site Area. The centre of the cable route is located at approximate Ordnance Survey (OS) National Grid Reference (NGR) SP 444611 209162 and is shown below as Figure 1.

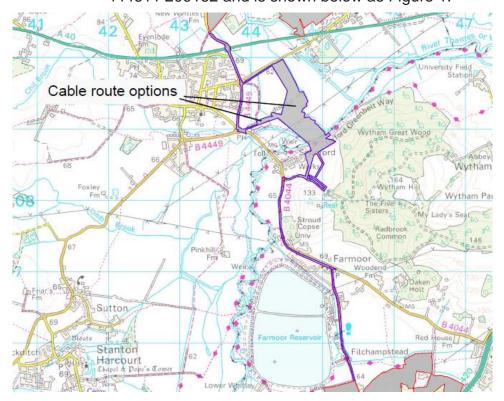


Figure 1: Extent of Land Parcel 16

- 2.1.2 The cable route comprises a predominantly 20 m working corridor which initially follows the western boundary of Land Parcel 13 and south along the B4449 to the roundabout with the A40. The route corridor then continues southwards along the B4449 east of Eynsham. Alternative routes are then proposed as follows:
 - following the B4449 southerly and then diverting eastwards along the route of a dismantled railway north of the Siemens Magnet Technology Ltd building; or
 - following Cassington Road north-easterly before diverting south through arable land either side of a group of linked fields before re-emerging on Wharf Road and crossing arable land to the east of the Siemens Magnet Technology Ltd building.
- 2.1.3 Both cable route options then merge into a wider corridor and are then designated to cross the River Thames by Horizontal Directional Drilling (HDD) on the eastern side of the Swinford Water Works complex before connecting





with the B4044 (Oxford Road) which it then follows towards Farmoor. The route then follows the B4017 to the east of Farmoor Reservoir before linking with the north-western corner of Land Parcel 14.

- 2.1.4 The topography of Parcel 16 is indicated to follow routes of lower elevation in the Thames valley to the north of the River Thames (62 m to 69 m Above Ordnance Datum (AOD). To the south of the river the route options follow the northern slope of Beacon Hill before rejoining the Oxford Road, rising to a maximum height of approximately 93 m AOD.
- 2.1.5 From 2024 Google Earth imagery, Land Parcel 16 is located in an area of predominantly undeveloped agricultural land use or existing roadways with Eynsham and Swinford to the west and Cassington to the north-east. Identified neighbouring land consisted of the following:

Table 2.1: Neighbouring Land Uses

Direction	Description		
North:	Predominantly agricultural land with a number of isolated farms forming the land parcels of the Central Site Area.		
East:	Agricultural Land and woodland, tributaries of the River Thames,		
South: Agricultural Land, Mature Woodland, Land Parcel 14 (Southern Site Area			
West:	Agricultural Land, Filchampstead, Oxford Sailing Club, Farmoor Reservoir, Farmoor Village, Swinford Village, River Thames, Eynsham Village, A40		

2.2 Proposed Development

- 2.2.1 The proposed development is to comprise a temporary 1,307 MWp solar farm installation. The Project will connect to a new National Grid Electricity Transmission (NGET) system, via a new National Grid 400kV substation, to be located close to the existing National Grid 400 kV line that runs between Cowley in Oxford, westwards to Walham, in Gloucestershire. The majority of the development (840 ha) will comprise solar PV modules (solar panels). At the highest point, the modules will be 2.2 m and at the lowest point the modules will be 0.8 m. The arrays are intended to be fixed, not rotating. The construction of all aspects of the Project is subject to the final Project design and potential environmental constraints.
- 2.2.2 The method of foundation support and anchoring of the solar panels has not been confirmed however this will likely be through use of galvanised steel piles or screws driven into the ground by an impact piling or screwing rig, to a depth of approximately 1.0 to 2.5 m below ground level (bgl).
- 2.2.3 Cable routes are to be installed at depths ranging from 0.75 m to 0.90 m in roadways and verges, 0.90 m to 1.20 m in fields and 1.5 m to 30 m bgl where Horizontal Directional Drilling (HDD) to be utilised where it is not feasible to use the 'open cut' method to cross obstacles such as hedges, rivers, railway lines, public rights of way, roads and sensitive archaeological or ecological areas.
- 2.2.4 There are likely to be four main temporary construction compounds in the development areas, one in the North, two in the Central area and one in the





South (locations to be confirmed). All compounds have been carefully sited in order to minimise potential adverse environmental impacts. Topsoil and subsoil will be stripped from such areas and stored on site for replacement following the completion of construction works. Each compound will have fencing and suitable hard standing, offices, welfare facilities and generators to supply electricity.

2.3 Site History

Historical Map Review

2.3.1 The following review is based on past editions of readily available Ordnance Survey (OS) maps. These include scales of 1:1,250, 1:2,500, 1:10,560 and 1:10,000 dated 1876 to 2023. Historical maps obtained as part of Groundsure Insights Report GS-2I7-N35-7VP-9KP are presented in Annex D.

Table 2.2: Historical Site Uses

On-site Land Use and features	Dates
North of River	
Route corridor options running north-south cross open fields and then deviate to the north-east to follow Cassington Road and the Witney Branch of the Great Western Railway. Land to south of Cassington Road identified as 'liable to flood.'	1876 to 1980
Railway dismantled. A40 roundabout constructed in north by 1974. B4449 also constructed on the east side of Eynsham and extending north from A40 roundabout.	1981 to 2024
Allotment Gardens	1971 to 1995
Sewage Works later cleared for construction of B4449 east of Eynsham.	1971 to 1985
South of River	
Route corridor crosses Fields	1876 to 2024
Minor drains/ditches feeding into River Thames	1876 to 2024
Oxford Road from Swinton to Farmoor	1876 to 2024
B4017 leading from Farmoor to Land Parcel 14.	1876 to 2024

2.3.2 Pertinent off-site historical site uses within 250 m are presented below.

Table 2.3: Historical Neighbouring Land Uses

Surrounding Land Use (250 m Radius)	Orientation	Distance	Dates	
,			From	То
Old Gravel Pit	west of B4449	150 m	1956	1970
Sewage works (later disused)	east of B4449	50 m	1913	1995
Allotment gardens	east	0 – 200 m	1971	1995





Surrounding Land Use (250 m Radius)	Orientation	Distance	Dates	
500 (200 m madias)			From	То
Eynsham Wharf	south-west	50 m	1900	1956
Pumping Station	north	100 m	1911	1994
Vehicle Stores Depot	south	20 m	1970	1977
Works (Siemens Magnet Technology Ltd building)	south	20 m	1970	2024
Swinford Water Treatment Works	south-west	95 m	1961	1994
Farmoor Reservoir	west	180 m	1968	2024
Cassington Road Fuel Station	east	100 m	1988	1994

Site Planning History

2.3.3 No relevant and readily available planning records are available on the West Oxfordshire Council and Vale of White Horse Council planning websites.

2.4 Environmental Setting

Geology

2.4.1 Based on British Geological Survey (BGS) mapping (1:50,000-scale) and the Environment Agency (EA) Groundwater Vulnerability mapping (1:100,000-scale), the stratigraphic sequence and aquifer classifications beneath Land Parcel 16 are indicated to be as follows:

Table 2.4: Descriptions of Geological Strata

Strata	Description & approximate thickness	Aquifer Classification	
Artificial Ground	None recorded	-	
Superficial Deposits			
Landslip Deposits	It is noted that the section of the proposed route corridor coinciding with Beacon Hill is located on landslip deposits formed by the relatively rapid movement of a mass of rock, earth, or debris down a slope. Material dependent on the nature of upslope material.		
Alluvium	Typically comprises clay, silt, sand and gravel.	Secondary A	
Northmoor Sand And Gravel Member (River Terrace Deposits)	Present beneath Alluvium and outcropping around Swinford and comprising sands and gravels (mainly limestone with lesser quartzite and flint) Typically	Secondary A	





Strata		Description & approximate thickness	Aquifer Classification
		comprises unconsolidated sand and gravel of up to 7.00 m thickness.	
Bedrock			
	/ Formation and n Formation –	Typically comprises mudstone and silty mudstone with subsidiary calcilutite, limestone, sandstone and siltstone.	Unproductive Stratum
2.4.2	cable route hardstand	Made Ground is also likely to be present across coinciding with proximity to existing roads tying cover and sub-base materials. No site inversewed to verify this.	pically expected to be
2.4.3	A number of historical borehole records are publicly available on Borehole Conshore mapping website within close proximity to Land Parcel Borehole ref. SP40NW293, approximately 2 m south-west (west of Sieme Magnet Technology Ltd building) identifies 0.25 m of Made Ground overlying 1.00 m of Alluvium (comprising soft brown sandy clay). Underlying the Alluvium are the terrace gravels proven to a depth of 5.00 m below ground level (BG below which is the Oxford Clay (encountered as firm/stiff grey clay).		nity to Land Parcel 16. west (west of Siemens lade Ground overlying Inderlying the Alluvium ow ground level (BGL),
2.4.4	A second BGS borehole, ref. SP40NW18 is identified 150 m west of the routo to the north of the dismantled railway line (Eynsham Wharf). This indicat Alluvium (encountered as soil, on a greyish brown silty clay) to a depth of m, overlying First Terrace Deposits to a depth of 5.9 m comprising both sail and gravel, followed by the Oxford Clay to depths in excess of 6.3 m BGL.		Wharf). This indicates clay) to a depth of 0.7 comprising both sand
Borehole references SP41SW/184 and SP41SW/185, located approximate 16 m to the east of the B4449 (just to the north of the A40 roundabout) idea 0.30 to 0.75 m of topsoil overlying 0.45 to 2.30 m of Alluvium (comprising to firm clayey silt and silty clay). Underlying the Alluvium are sand and graunits to a depth of 3.80 to 6.50 m below ground level (BGL), below where the below of the below ground level (BGL) approached by the below of 12.00 m BGL.		O roundabout) identify uvium (comprising soft mare sand and gravelel (BGL), below which	
2.4.6		ter strikes are recorded within the gravels at depths of approximately 1.40 m to 3.20 m E	
	Hydroge	ology	
2.4.7		cel 16 is located above a Secondary A	

- 2.4.7 Land Parcel 16 is located above a Secondary A Aquifer relating to the superficial deposits and Unproductive Stratum relating to the underlying Oxford Clay Formation and West Walton Formation bedrock. These relate to:
 - Secondary A: These formations are formed of permeable layers capable
 of supporting water supplies at a local scale, in some cases forming an
 important source of base flow to rivers.
 - Unproductive Strata: These formations have a low permeability and have negligible significance for water supply or base flow.





- 2.4.8 According to EA data, Land Parcel 16 is not located in a groundwater Source Protection Zone (SPZ).
- 2.4.9 Information provided by the EA indicates that there are two active licensed groundwater abstractions within 2 km radius. Details of these are provided in the table below.

Table 2.5: Groundwater Abstractions

Licence Holder	Use	Approx. Distance and Direction from Site
Hanson Quarry Products Europe Ltd	Transfer Between Sources (Post Water Act 2003)	1620 m north-east
G R Blake Partnership	General Farming & Domestic	1894 m west

Surface Water

- 2.4.10 There is one watercourse on-site which is classified within a River Basin Management Plan published by the EA under the European Water Framework Directive (WFD) (2000). This is the River Thames (Leach to Evenlode) section which has an ecological rating of poor and chemical rating fail. Other minor surface watercourses feeding into the River Thames cross Cassington Road to the north and from the east of Swinford Pumping Station.
- 2.4.11 Information provided by the EA indicates that there are no records of an active licensed surface water abstraction within 500 m of Land Parcel 16.

Ecologically Sensitive Sites

2.4.12 Natural England data indicates that there are the following ecologically sensitive sites, which constitute environmental receptors as defined within Table 1 of the DEFRA Environmental Protection Act 1990: Part 2A - Contaminated Land Statutory Guidance (2012), located within a 500 m radius of Parcel 16.

Table 2.6: Ecologically Sensitive Sites

Environmental Designation	Name	Approx. Distance and Direction from Site
Green Belt	Oxford	On site
Sites of Special Scientific Interest	Wytham Woods	14 m south-east
Designated Ancient Woodland	Further Clay Hill	14 m south-east
Designated Ancient Woodland	Strond Copse	106 m south
Designated Ancient Woodland	Wytham Great Wood	120 m south-east
Designated Ancient Woodland	Hither Clay Hill	386 m east





Radon

2.4.13 Radon can be a risk to human health from inhalation of radioactive elements. According to the Indicative Atlas of Radon in England and Wales published by the UK Health Security Agency and the British Geological Survey, Parcel 16 is not located in an area at risk from radon gas with an estimation of less than 1 % affected properties which would indicate no requirement for radon protection measures for new development.

Coal Authority

2.4.14 The Interactive Map Viewer on the Coal Authority website indicates that Land Parcel 16 is not located in a coal mining reporting area.

Non-Coal Mining

2.4.15 BGS sources indicate that Land Parcel 16 is not located in an area of recorded non-coal mining (vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities including ball clay, jet, black marble, graphite and chert).

Britpits

2.4.16 There are two records indicated by the environmental data report for Britpits within 500 m of Land Parcel 16, both for sand and gravel pits. The closest pit is recorded approximately 145 m to the north-west of Land Parcel 16 and both pits are stated to be ceased.

BGS Ground Stability Hazard Ratings

2.4.17 British Geological Survey Ground Stability Hazard ratings for Land Parcel 16 are summarised as follows.

Table 2.7: BGS Ground Stability Hazard Ratings

Ground Stability Hazard	BGS Risk rating
Collapsible ground	Negligible to Very Low
Compressible ground	Negligible to Moderate (Alluvium)
Ground dissolution	Negligible
Landslide	Very Low to Moderate (slope of Beacon Hill)
Running sand	Negligible to Low
Shrinking or swelling clay	Very Low to Moderate (bedrock)

2.4.18 It is not envisaged that the cable route will involve heavy loadings that could result in uneven settlement caused by compressible ground. The moderate rating for landslides relates to the location of the landslip material identified on geological mapping. With a moderate rating it is recommended that land use should consider specifically the site stability in relation to the proposed development. From the ratings for shrinking/swelling clay it is evident that the





bedrock strata are likely to be of high plasticity. It is unlikely that contact will be made with these strata during trench excavation where there is cover of superficial deposits however where bedrock strata are present at outcrop these materials are likely to be present at the depth of cable placement. Design should allow for any variations in shrinking and swelling characteristics, such as seasonal variations, to stresses imposed by ground movement associated with shrinking/swelling clays.

2.5 Authorised Processes and Pollution Incidents

Landfills and Waste Sites

2.5.1 Data provided by the EA, Local Authority and BGS indicate that there is one historical landfill within 250 m of Land Parcel 16 located approximately 220 m to the north-west on the northern side of the A40 which accepted inert waste between 13/01/1978 and 31/12/1982.

Waste Exemptions

2.5.2 There is one record for a waste exemption within 250 m of Land Parcel 16. The record is for a site north-east of the B4044 Oxford Road approximately 163 m to the south-west of the land parcel for the use of non-agricultural waste for a specified purpose.

Environmental Permits

2.5.3 EA and Local Authority data indicates that there are two processes regulated by an Environmental Permit (under the Environmental Permitting Regulations 2010) within 250 m. One of these is Swinford Water Treatment Works operated under permit by Thames Water Utilities Ltd. The second is Eynsham Fuel Filling Station 110 m north-west which has a Part B permit for 'Unloading of Petrol into Storage at Service Stations'. No enforcements have been made on this permit.

Discharge Consents

2.5.4 There are two records for active licensed discharge consents within 150 m of Land Parcel 16. The closest record is held by Heron Self Filling Service Station approximately 13 m to the north-west for the discharge of final/treated sewage effluent into the underlying unproductive aquifer. The second record is held by Swinford Water Treatment Works for the discharge of final/treated sewage effluent into the River Thames.

COMAH Sites

2.5.5 There is one record of operations under the Control of Major Accident Hazards (COMAH) Regulations 1999, located within 250 m of the route options.





Table 2.8: COMAH sites within 250 m.

Licence Holder	Approx. Distance and Direction from Site	Operational Status
Thames Water Authority	44 m south (Swinford Water Treatment Works)	Historical NIHHS Site

Pollution Incidents

2.5.6 Environment Agency data indicates that there is one record of a 'major' or 'significant' pollution incident within 500 m of Land Parcel 16. This record dates to 19/05/2002 for the release of gas and fuel oils into a water source (details not provided, assumed to be the River Thames). The incident was recorded as a 'significant' impact to water, approximately 224 m to the south of Land Parcel 16. Although located upstream of the proposed cable crossing of the river it is considered unlikely given the time elapsed that there would be an adverse impact on the proposed development as a result.

2.6 Unexploded Ordnance

- 2.6.1 CIRIA Report C681 (Stone et al., (2009)) outlines recommendations for dealing with the potential risk associated with the legacy of Unexploded Ordnance Risk, largely relating to WWII bombing and military sites.
- 2.6.2 Reference to the Zetica Unexploded Bomb Risk mapping indicates that Parcel 16 is in an area of low potential risk from Unexploded Ordnance. As the Land Parcel is not within an area of known military history, in general accordance with CIRIA Report no further consideration of Unexploded Ordnance is considered necessary.

3 Outline Conceptual Site Model

3.1 Background

- 3.1.1 An outline conceptual site model (CSM) consists of an appraisal of the *source-pathway-receptor* 'contaminant linkages' which is central to the approach used to determine the existence of 'contaminated land' according to the definition set out under Part 2A of the Environmental Protection Act 1990. For a risk to exist (under Part 2A), all three of the following components must be present to facilitate a potential 'pollutant linkage'.
 - **Source** referring to the source of contamination (Hazard).
 - **Pathway** for the contaminant to move/migrate to receptor(s).
 - Receptor (Target) that could be affected by the contaminant(s).
- 3.1.2 Receptors include human beings, controlled waters and buildings / structures. The National Planning Policy Framework, used to address contaminated land through the planning process, follows the same principles as those set out under Part 2A.
- 3.1.3 As part of the assessment the potential risks to receptors for potential source is given one of the following classifications:





- Low risk it is considered unlikely that issues within the category will give rise to significant harm to identified receptors
- Moderate risk it is possible, but not certain that issues within the category will give rise to significant harm to receptors
- High risk there is a high potential that issues within the category will give rise to significant harm to identified receptors

3.2 Potential Pollutant Linkages

3.2.1 Each stage of the potential pollutant linkage sequence has been assessed individually on the basis of information obtained during the desk study exercise and are discussed in the following section.

Potential Contaminant Sources

On Site - Current

- 3.2.2 Current on-site potential sources of contaminants of concern include:
 - Parcel 16 follows existing roads for much of the route, which potentially
 present a source of localised soil/groundwater contamination through
 run-off of water that may have been contaminated by minor oil/fuel spills.

On Site - Historical

- 3.2.3 Historical on-site potential sources of contaminants of concern include:
 - The former sewage works located on the route of the B4449 east of Eynsham (possible source of metals, nitrates, sulphates, hydrocarbons and pathogens). It is apparent that following construction of the B4449, no remaining evidence of this feature is discernible from historical maps. It is assumed that any related contamination sources were removed and remediation carried out as necessary at the time of road construction.

Off-site - Current

3.2.4 Swinford Water Treatment Works holds a record for a discharge consent for treated effluent discharged to surface water. However, this process is regulated under a licensed discharge consent and unlikely to impact on the proposed development (routing of cables beneath the river), this is discounted from further assessment as a viable source.

Off-Site - Historical

- 3.2.5 The following off-site historical sources of contamination have been identified.
 - A former sewage works located to the east of the B4449;
 - Vehicle Fuel filling stations (Cassington Rd and Heron Self Filling Service Station);
 - Stores Depot (possible storage of hydrocarbons, oils, chemicals, paints etc);





- Former gravel pit discounted as significant as location now occupied by residential development in Eynsham; and
- Former landfill site north of A40 licensed for disposal of inert waste only (unlikely to be viable source of ground gas).

Potential Pathways

- 3.2.6 The risks to any future on site human health receptors via the pathways of dermal contact, inhalation and ingestion will be mitigated by reinstatement of hardstanding following placement of cables and use of clean inert material to infill service trenches. Given the anticipated absence of significant sources of on-site Made Ground other than possible road surface and sub-base along the majority of the proposed cable route, there is not considered to be a high risk to human health posed by exposure in current soft landscaping areas where Made Ground is likely to be absent or minimal in thickness. As stated above, the main identified potential contamination source for the route corridor is the former sewage works cleared for construction of the B4449. It is feasible that the depth of cable trench may extend into residual soils beneath the existing road structure. It is unlikely that the excavation of the trenches will create new pathways for mobilisation of contaminants, any Made Ground present is already likely to be in contact with mainly granular superficial deposits and potentially shallow groundwater within these deposits.
- 3.2.7 The pathways for migration of liquid or vaporous contaminants from off-site potential sources across much of Land Parcel 16 is considered to be minimal given the low permeability nature of the outcropping/underlying bedrock strata.
- 3.2.8 The absence of any identified potential sources in the route corridor south of the superficial deposits cover and where low permeability clay dominated bedrock is present which would retard lateral or vertical migration of leachable/liquid/vaporous contaminants would indicate no viable risks to the receptors in this section of the route corridor.
- 3.2.9 Mobilisation of airborne particulate contaminants may occur in trench construction which will be mitigated by adoption of standard dust suppression procedures during construction.

Potential Receptors

Controlled Waters

- 3.2.10 The superficial deposits comprise Secondary A Aquifers which represent potential significant receptors, however the absence of identified abstractions and source protection zones within 500 m of Land Parcel 16 would indicate low sensitivity.
- 3.2.11 The nearest major surface water features are the River Thames to be crossed beneath by HDD drilling and Farmoor Reservoir. The proposed route also crosses some minor watercourses that drain into the Thames.





Human Health

- 3.2.12 Following construction of the Project it is not envisaged that there will be any occupancy of Parcel 16 although there may be periodic requirements for maintenance works/checks of the cables. Maintenance workers therefore represent the most likely potential future human health receptor. The risks posed to maintenance workers are considered to be very low given the short-term period of exposure to soils and adoption of safe systems of work such as PPE.
- 3.2.13 Off-site human health receptors include nearby residents and workers. It is noted that there are residential developments within 100 m, to the west at Eynsham and the village of Farmoor and industrial premises such as the Water Treatment Works and Siemens Magnet Technology Ltd buildings.
- 3.2.14 The assessment does not consider the risk to construction/demolition workers during redevelopment. These risks will be managed through appropriate Health and Safety legislation including the Health and Safety at Work Act and Construction Design Management regulations.

Structures

3.2.15 Another potential receptor is the cables and any concrete for duct formation likely to be placed within shallow soils (and possibly locally through deleterious Made Ground).

Sensitive Land Use

3.2.16 The various phases of construction, operation and decommissioning of Land Parcel 16 to be controlled by a Construction Environmental Management Plan (CEMP) are considered unlikely to adversely impact on the identified sensitive land uses.

3.3 Outline Conceptual Site Model

3.3.1 An outline CSM has been developed on the basis of the and desk study findings. The CSM is used to identify potential sources, pathways and receptors (i.e., potential pollutant linkages) on-site post-development and is summarised in the table below.





Table 3.1: Outline Conceptual Site Model

Potential Source	Contaminants of Concern	Via	Potential Pathways	Linkage Potentially Active?	Receptors	Qualitative Risk Rating	Notes
On site/off-site – current/historical: Road construction Sewage Works	Metals, pH, PAHs, hydrocarbons, cyanide, Inorganic and organic chemicals, pathogens	Soil	Direct contact / ingestion	×	Future Site Users	N/A	No regular occupation of Parcel 16 post development. Short term exposure pathways will be mitigated by reinstatement of trenches following placement of cables with clean inert material and hardstanding.
			Inhalation of volatiles	×			
Sewage Works			Airborne	×	Off-site Users	N/A	Not considered viable post construction
			Leaching of mobile contaminants	ж	Secondary A Aquifers/surface water bodies	N/A	Post construction drainage patterns unlikely to be altered by proposed development.
			Chemical Attack via direct contact	√	Utility/service cables	Low	Depth of placement of cables likely to be in natural strata below road formation. Contaminant linkage may be present and there is a possibility of the risk occurring in area of the former sewage works, although there is no certainty that it will do so.
		Groundwater	Direction contact/ingestion	×	Off-site Users	N/A	Exposure pathway via groundwater unlikely post development. Shallow excavations for
			Inhalation of volatiles	•			cable laying are unlikely to alter the groundwater drainage pattern and impact on off-site human health receptors.
			Vertical and lateral migration in permeable strata	×	Secondary A Aquifers	N/A	Post construction drainage patterns unlikely to be altered by proposed development.

Note

3.3.2 Based on the identified potential sources and the site setting there is not considered to be a significant risk to ecological receptors, crops/vegetation, or archaeological receptors

^{*} The Qualitative Risk Rating does not consider the potential for the pathway to be active. In the event that a Moderate or High Qualitative Risk Rating is identified further assessment is recommended.





4 Conclusions and Recommendations

4.1 Preliminary Geoenvironmental Conclusions

- 4.1.1 The PRA undertaken has not identified any potentially significant potential source-pathway-receptor contamination linkages that would limit the development of Land Parcel 16 as a cable route corridor linking The Central Site area and The Southern Site Area.
- 4.1.2 A number of environmental design and management measures will be employed as standard best practice to minimise impacts to both human health and controlled waters during the construction and decommissioning phases of The Project. These will be included in a CEMP which would also include a discovery strategy to be followed in the event of unknown soil contamination being discovered along the cable route during construction works.

4.2 Preliminary Geotechnical Conclusions

- 4.2.1 The available geological data suggests that bedrock strata of the Oxford Clay Formation and West Walton Formation outcrop across much of the corridor and typically comprises mudstone bedrock weathered to clay. There is likely to be superficial cover of Alluvium and Northmoor Sand and Gravel Member River Terrace Deposits in close proximity to the Thames.
- 4.2.2 Key potential geotechnical concerns identified relate to moderate risks of land instability resulting from possible clay heave/shrinkage effects from Oxford Clay strata and excavation of trenches in former landslip deposits that may be unstable and hinder excavation or trigger additional ground movement through disturbance. Further slope stability assessment is recommended as part of design for this section.
- 4.2.3 It is recommended suitable engineering practices are adopted to ensure the required installation depth is achieved and that trenches remain stable and open for the period of cable placement. It is possible that some localised dewatering schemes may be required close to the Thames crossing where a high-water table may be present in the sands and gravels.





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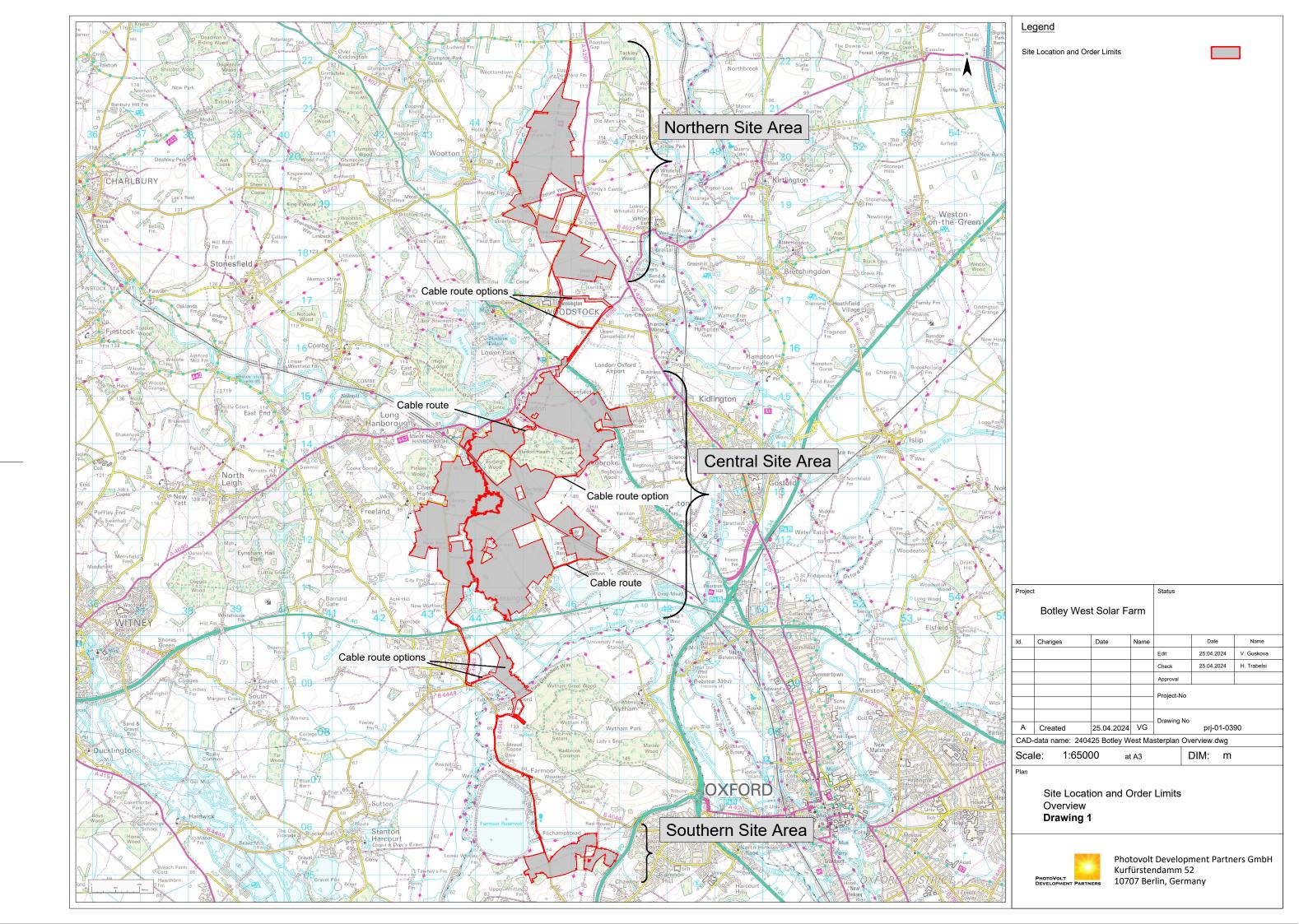
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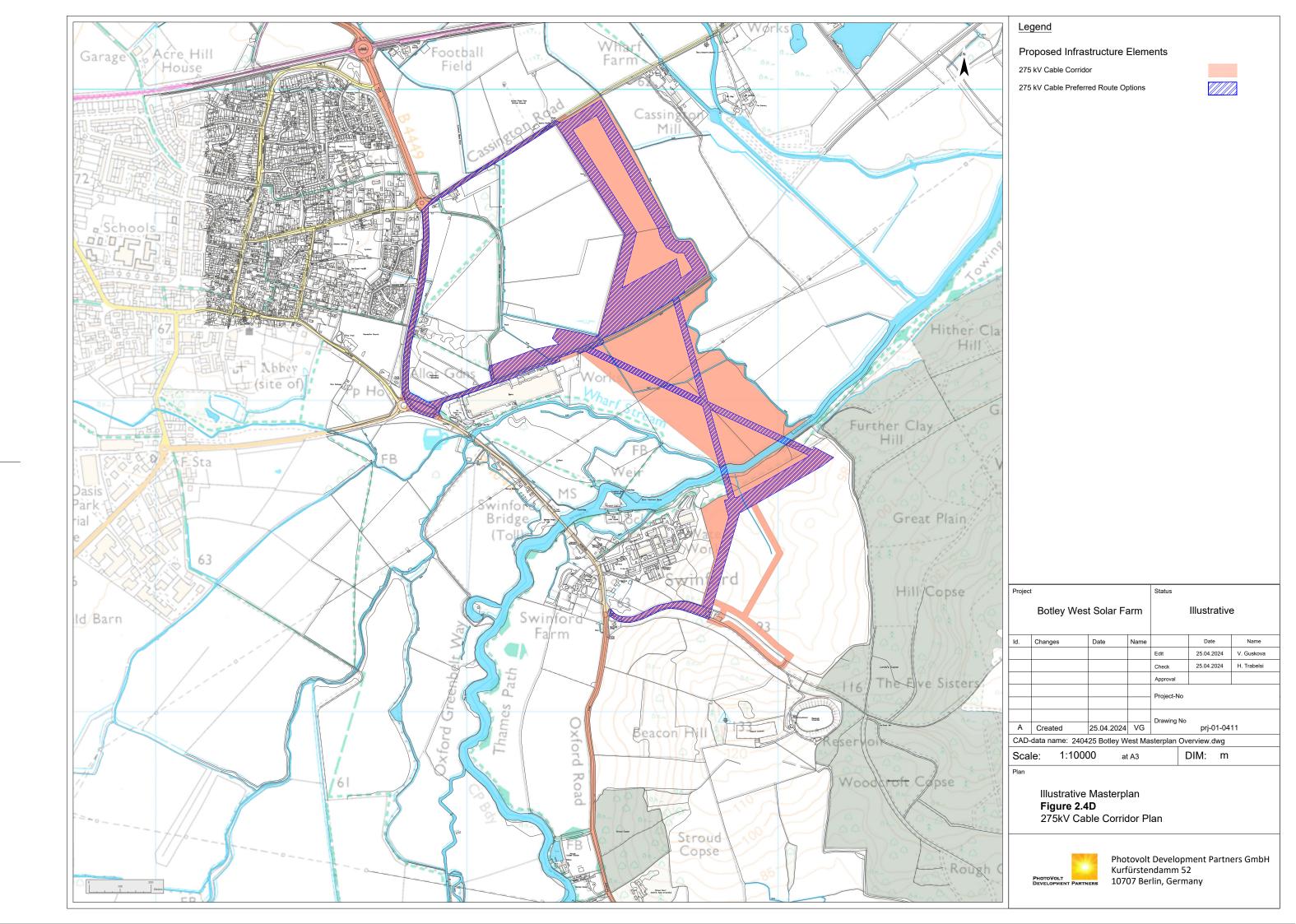
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Drawings Drawing 1: Site Location and Order Limits









Drawings Drawing 2: 275kV Cable Corridor Plan





PRA METHODOLOGY

INTRODUCTION

This report provides available factual data for the site obtained only from the sources described below and related to the site on the basis of the location provided by the client. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources. No responsibility can be accepted by RPS for inaccuracies in the data supplied by any other party.

This report is written in the context of an agreed scope of work and should not be used in a different context. Furthermore, new information and changes in legislation may necessitate a re-interpretation of the report in whole or in part after its original submission. The report is provided for sole use by the client and is confidential to them and their professional advisors. No reliance whatsoever is provided to any party other than the client unless otherwise agreed.

INFORMATION SOURCES

Current and Historical Land Use

This section establishes the former and current uses of the site, which could have caused contamination. Details of the site location, the current and proposed site uses have been provided by the client.

Information about the history of the site has been obtained through an inspection of historical maps at 1:10,000, 1:2,500 and 1:1,250 scales and historical aerial photographs (where available). The accuracy of maps cannot be guaranteed, and it should be recognised that different conditions on-site may have existed between, and subsequent to, the map survey dates.

Regulatory Records

Regulatory records including landfills, pollution incidents ('major' and 'significant' only), industry authorisations and licensed water abstractions are derived from information purchased from Groundsure Ltd (unless otherwise specified).

Environmental Setting

The geological sequence underlying the site and the approximate depths of strata are provided by maps published by the British Geological Survey (BGS) 1:50,000 scale and available borehole records held by the BGS.

The hydrogeological classification is obtained from Groundwater Vulnerability mapping by the BGS/EA/National Resources Wales (NRW). The vulnerability of groundwater is determined from this mapping and geological information.

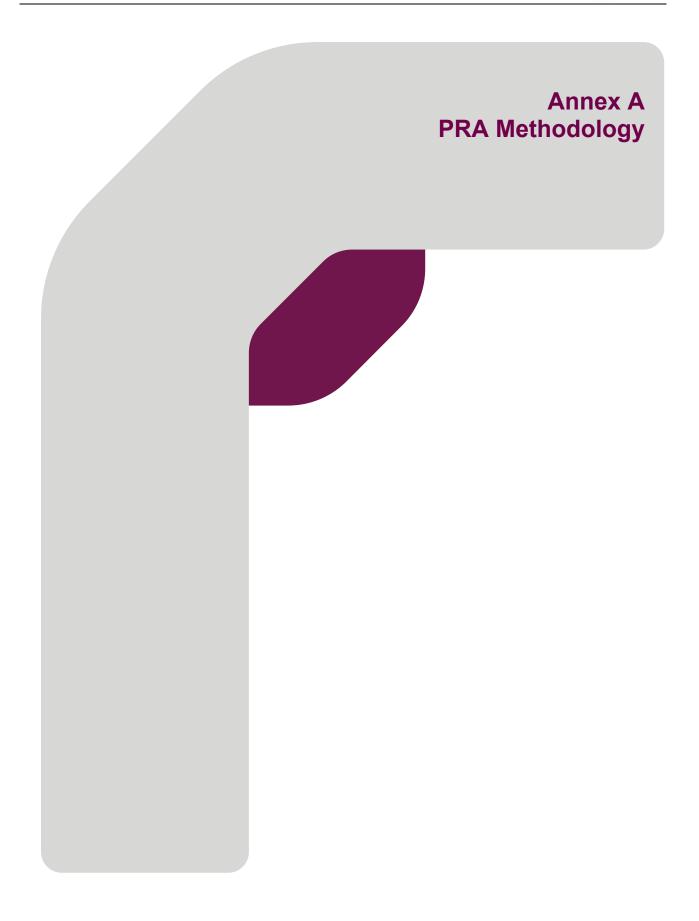
The location of surface watercourses is obtained from an inspection of current OS maps. Flood risk details and information on groundwater Source Protection Zones are obtained from readily available EA/NRW information published on-line and supplied by Groundsure Ltd.

Details of sensitive ecosystems/habitats and coal mining areas are supplied by Natural England, Natural Resources Wales and Scottish Natural Heritage and the Coal Authority respectively via Groundsure Ltd and inspection of the MAGIC website.

Radon is a radioactive gas produced naturally by certain types of geology. This report uses the Indicative Atlas of Radon in England and Wales (2007) produced by the Health Protection Agency (HPA) and the British Geological Survey (BGS) to determine whether the site is located in an area at risk from radon gas. Where potential issues are identified, a site-specific radon report is obtained from the HPA and BGS to provide a more accurate estimate of the probability of the site being affected by radon gas ingress.









General Notes

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Phase 1 - Environmental Risk Assessment / Desk Study Environmental Review

- A "desk study" means that no site visits have been carried out as any part thereof, unless otherwise specified.
- 1. This report provides available factual data for the site obtained only from the sources described in the text and related to the site on the basis of the location information provided by the Client.
- 2. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources.
- 3. The accuracy of maps cannot be guaranteed and it should be recognised that different conditions on site may have existed between and subsequent to the various map surveys.
- 4. No sampling or analysis has been undertaken in relation to this desk study.
- 5. Any borehole data from British Geological Survey sources is included on the basis that: "The British Geological Survey accept no responsibility for omissions or misinterpretation of the data from their Data Bank as this may be old or obtained from non-BGS sources and may not represent current interpretation".
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- 10. These terms apply in addition to the RPS "Standard Terms & Conditions" (or in addition to another written contract which may be in place instead thereof) unless specifically agreed in writing. (In the event of a conflict between these terms and the said Standard Terms & Conditions the said Standard Terms & Conditions shall prevail.) In the absence of such a written contract the Standard Terms & Conditions will apply.





Annex B Limitations of Assessment





General Notes

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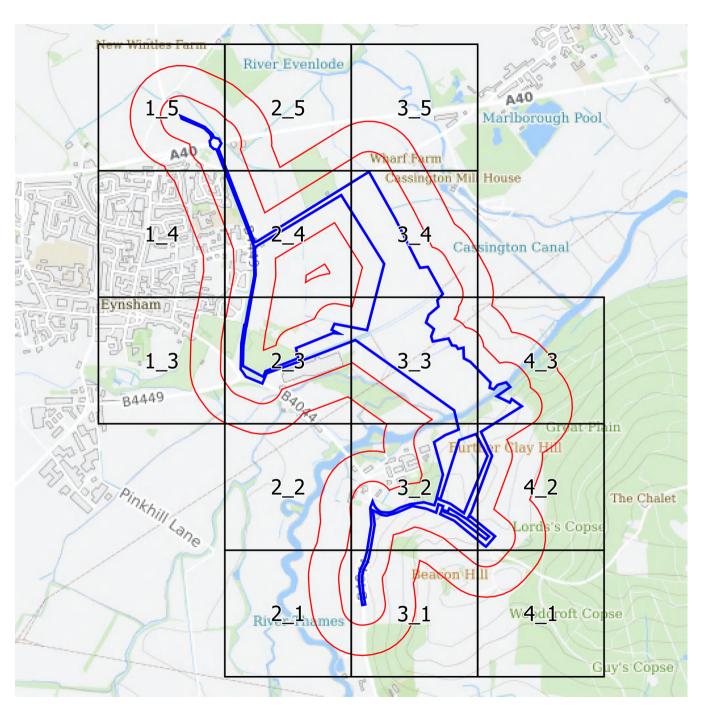
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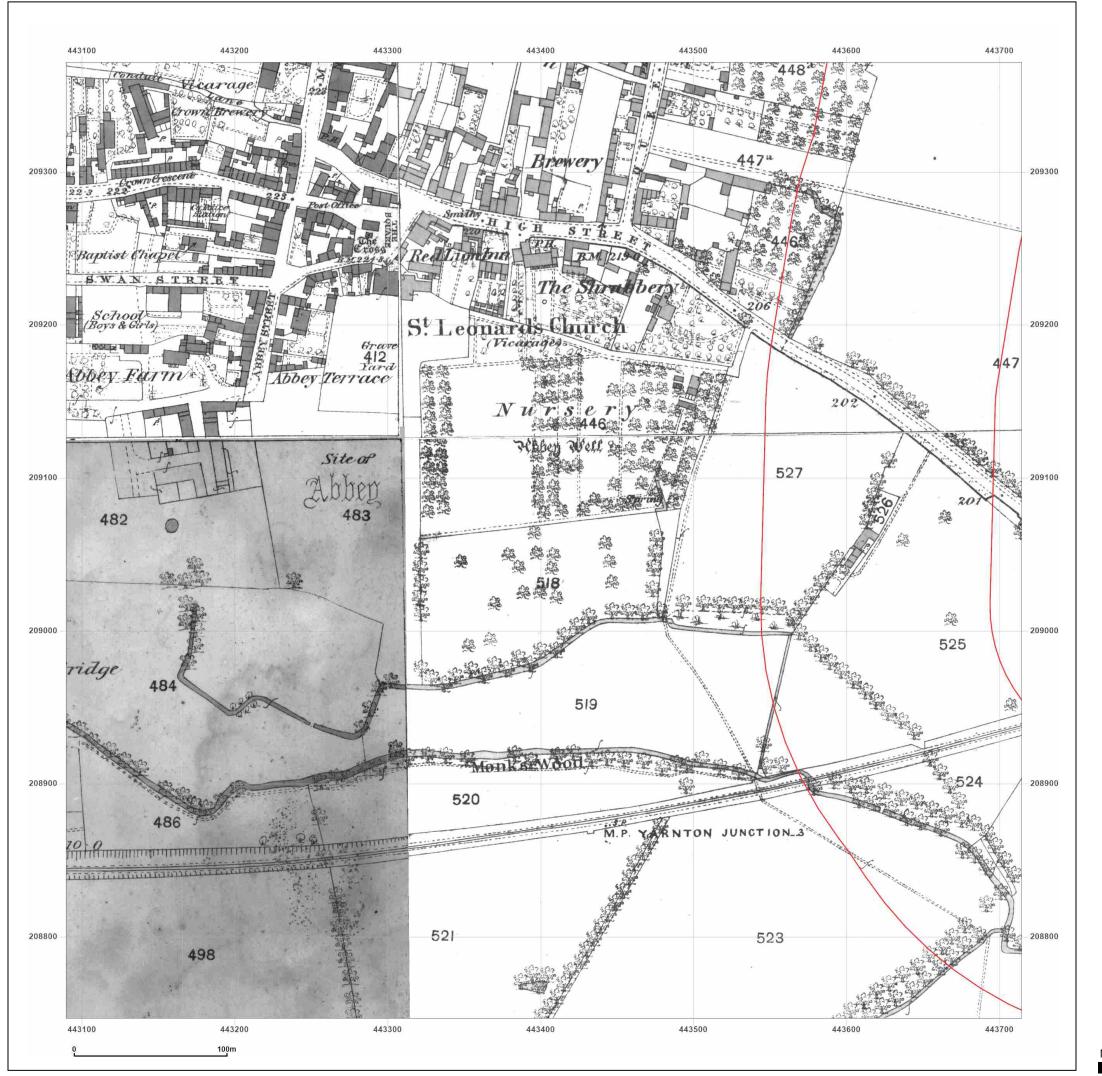
Annex C Groundsure Insights Historical Map Reports



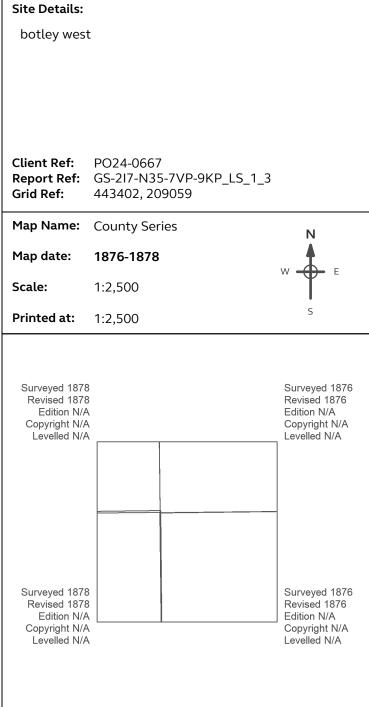


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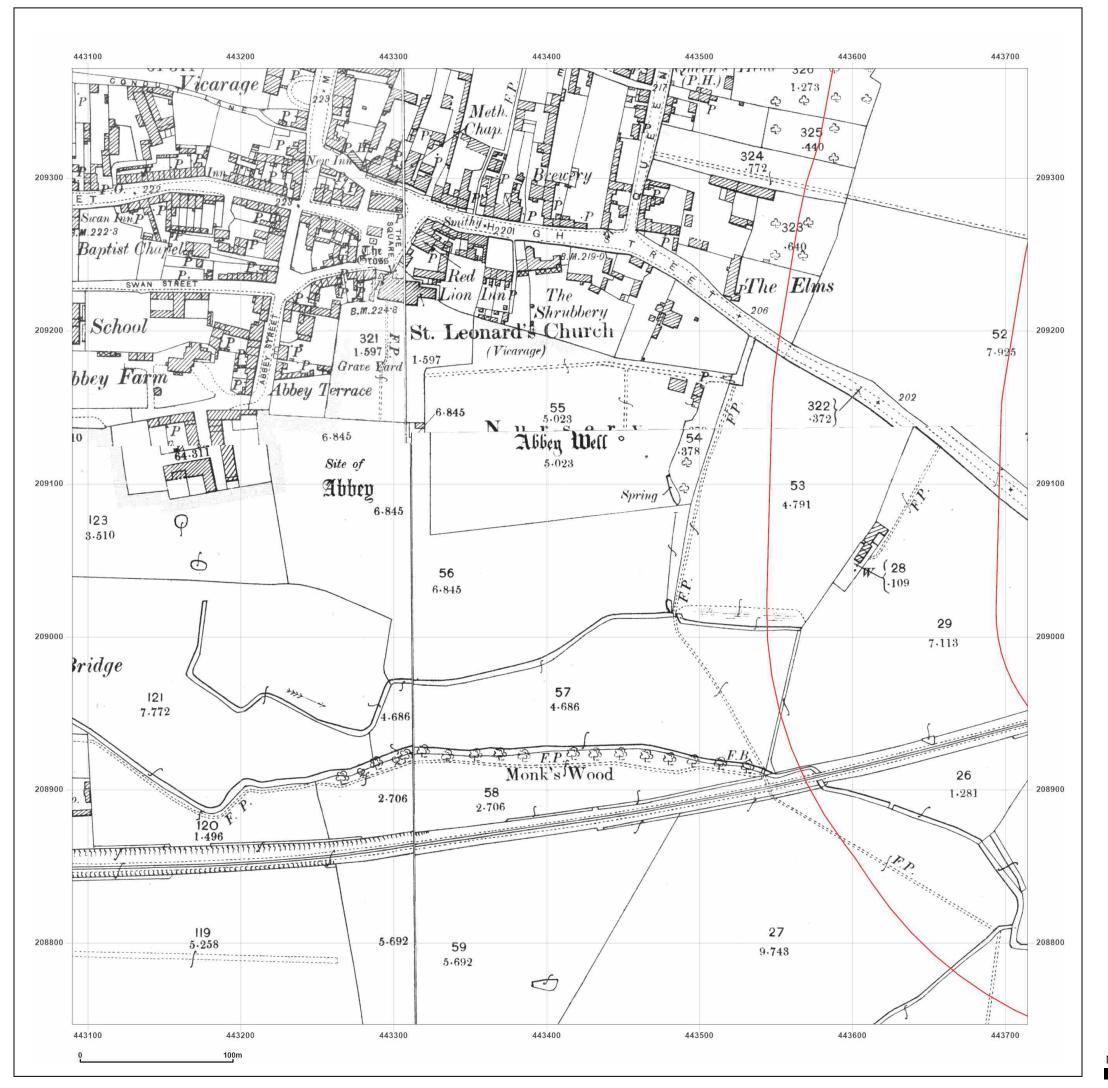


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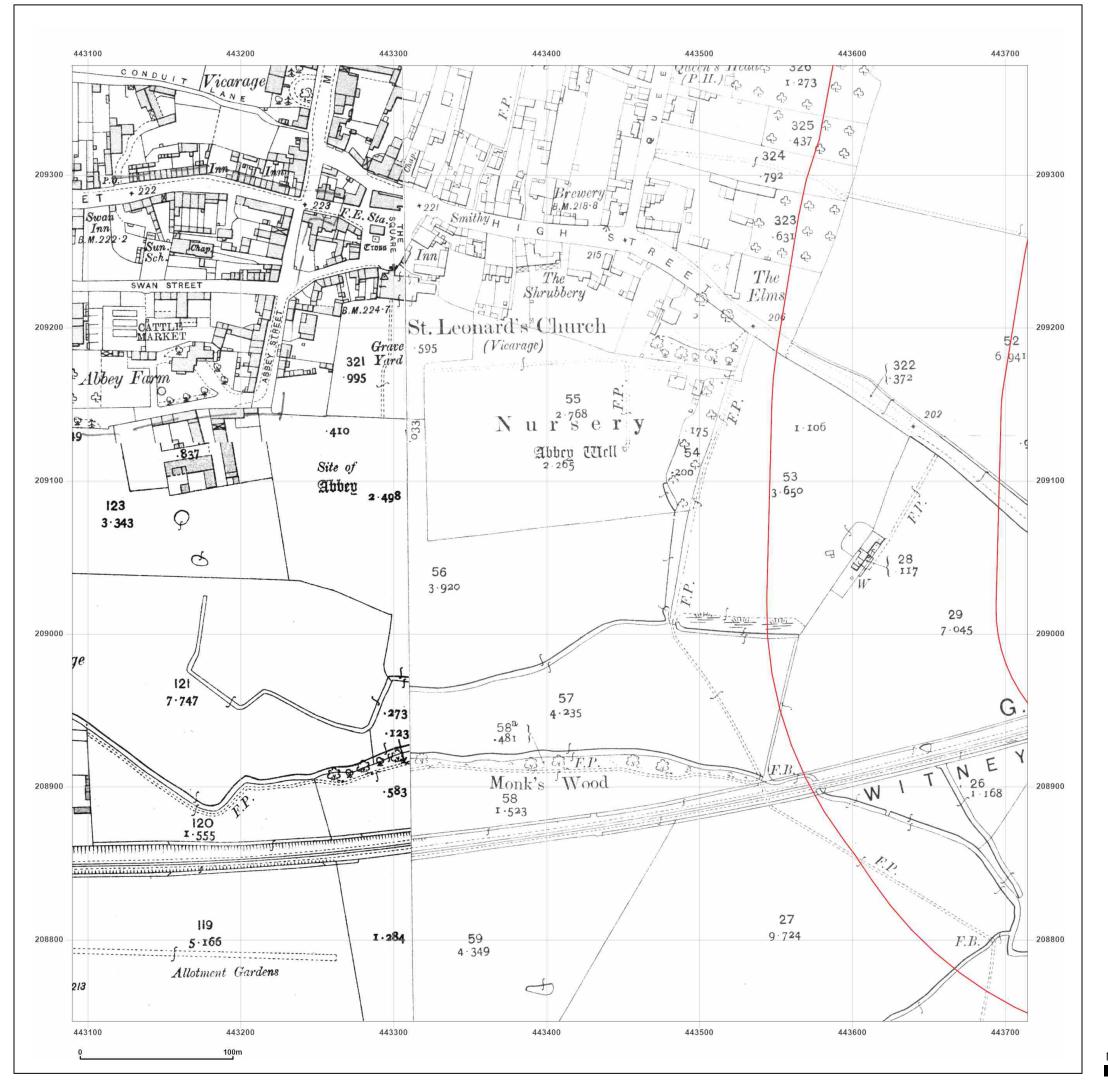


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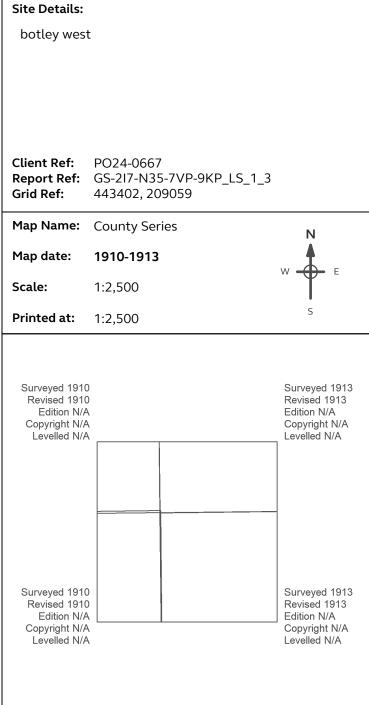
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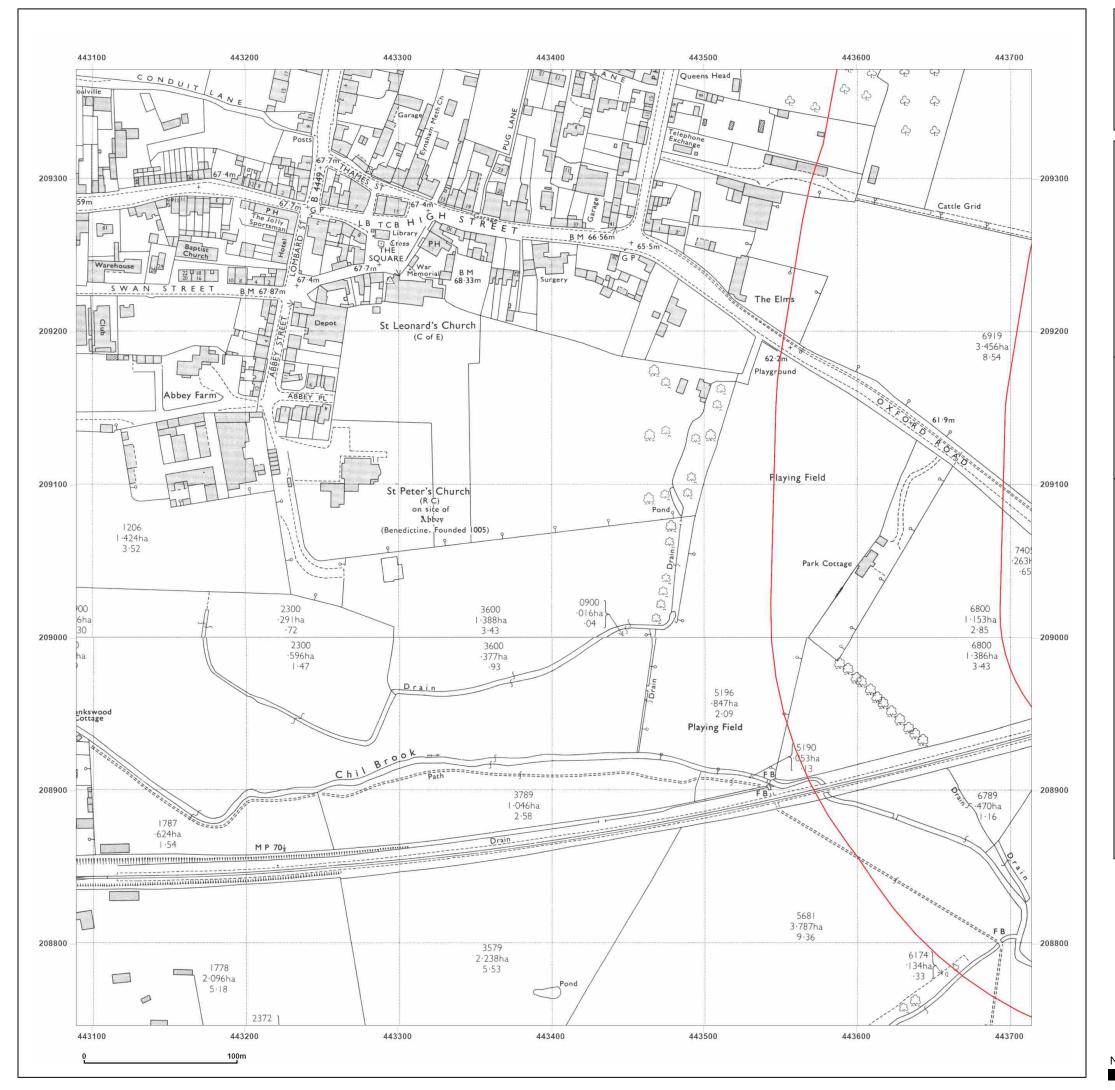




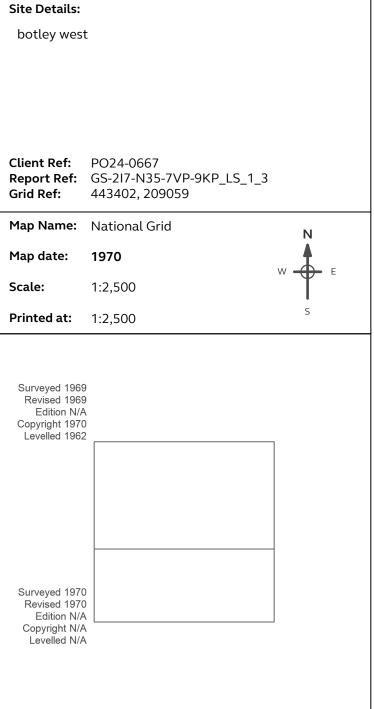


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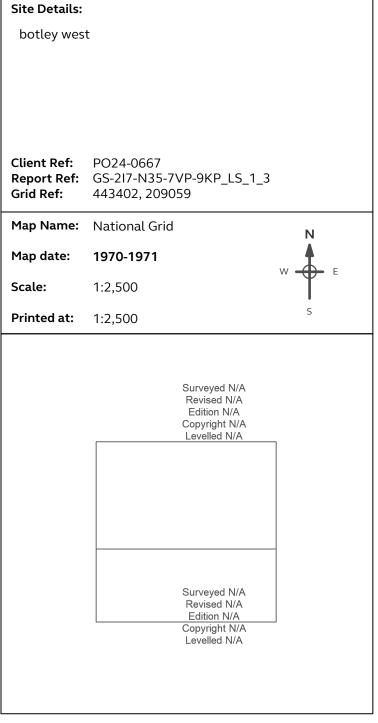


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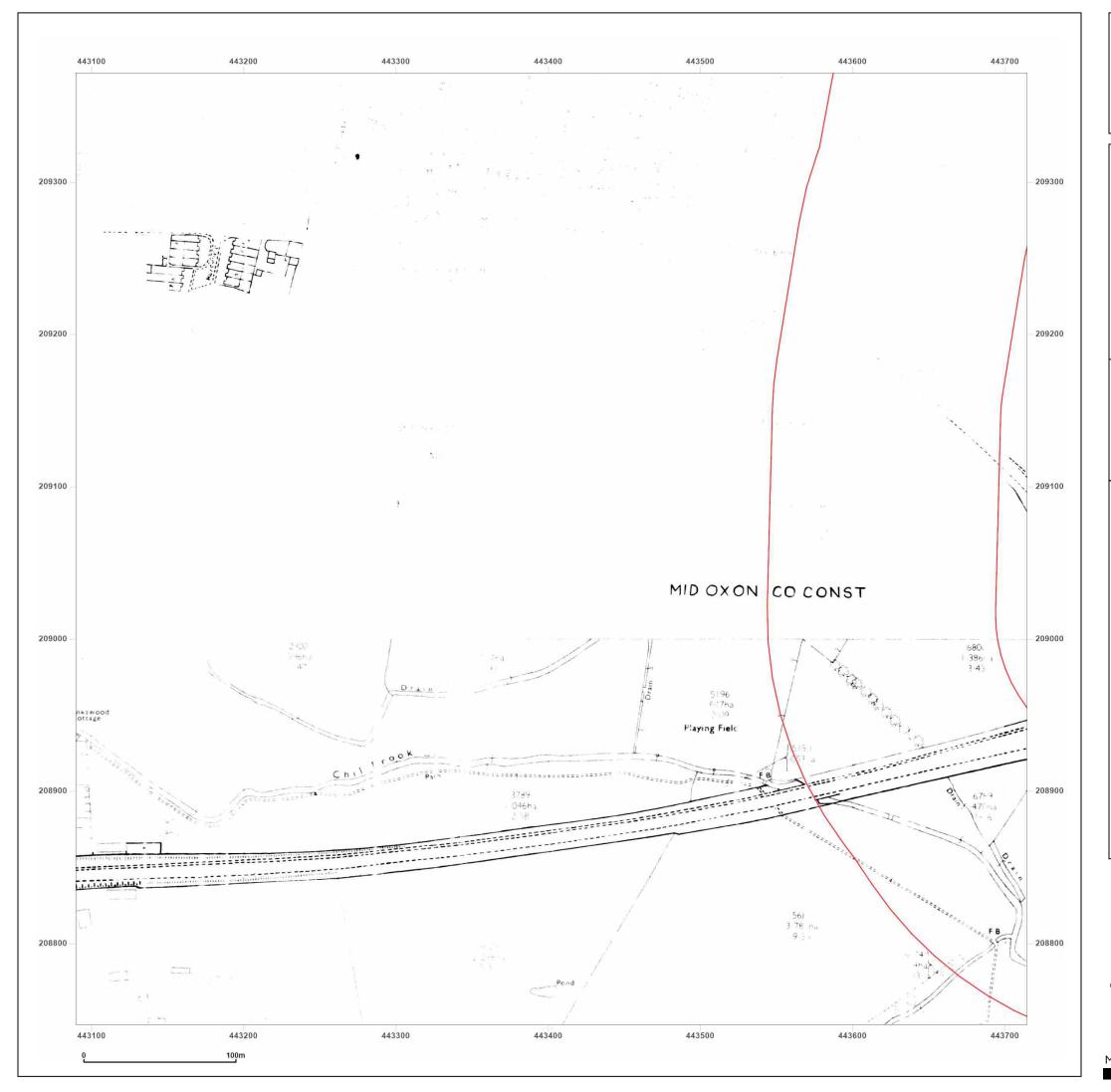




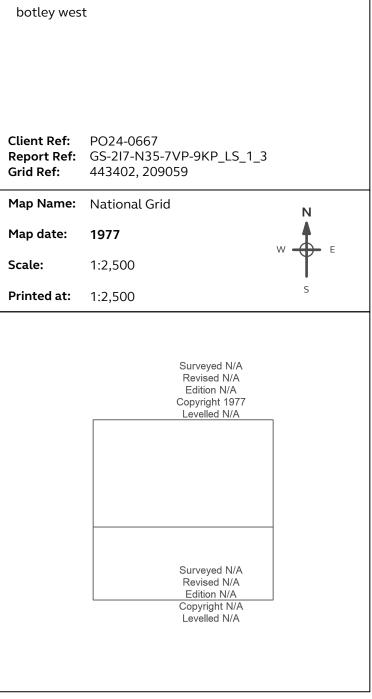


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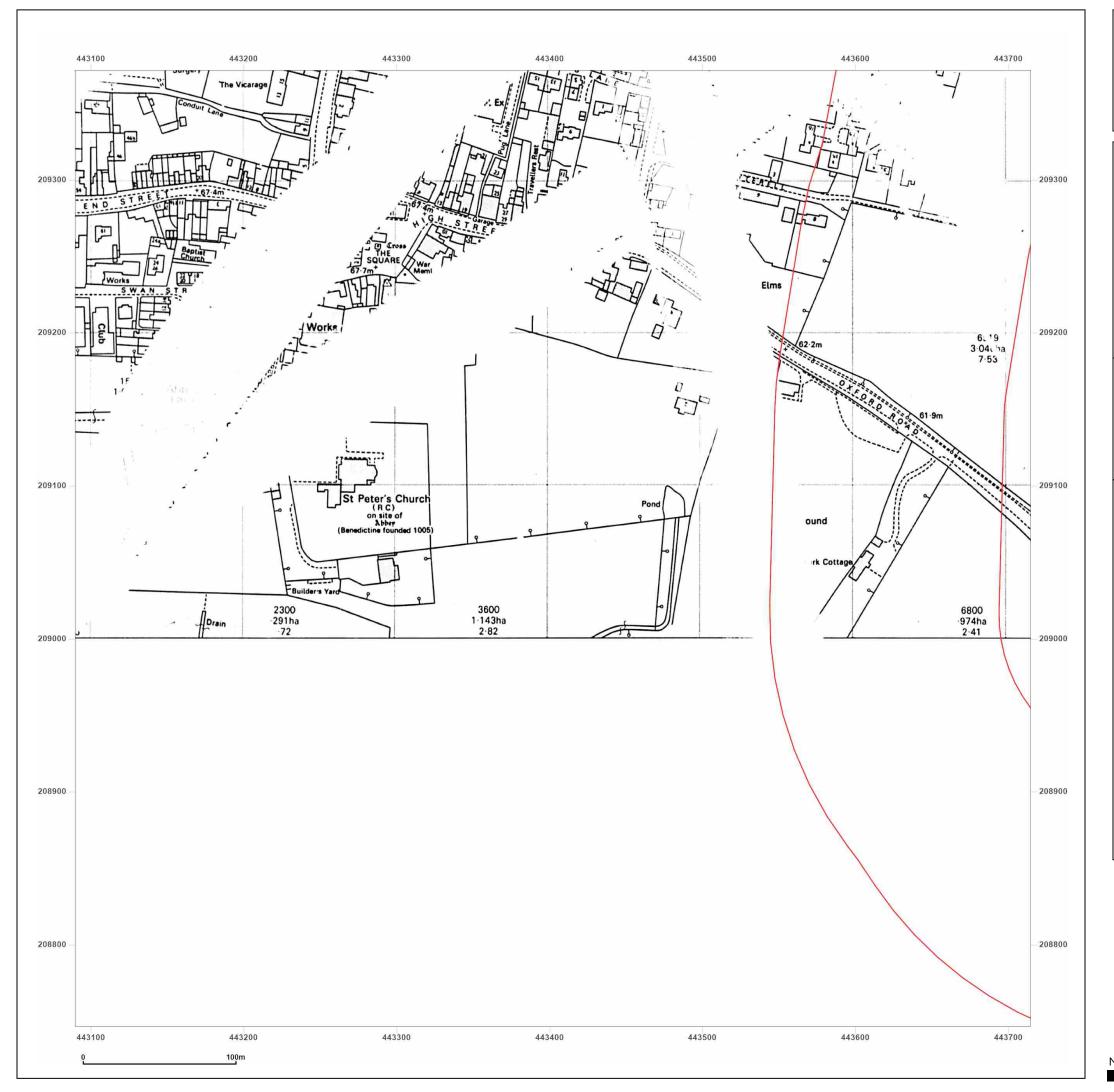




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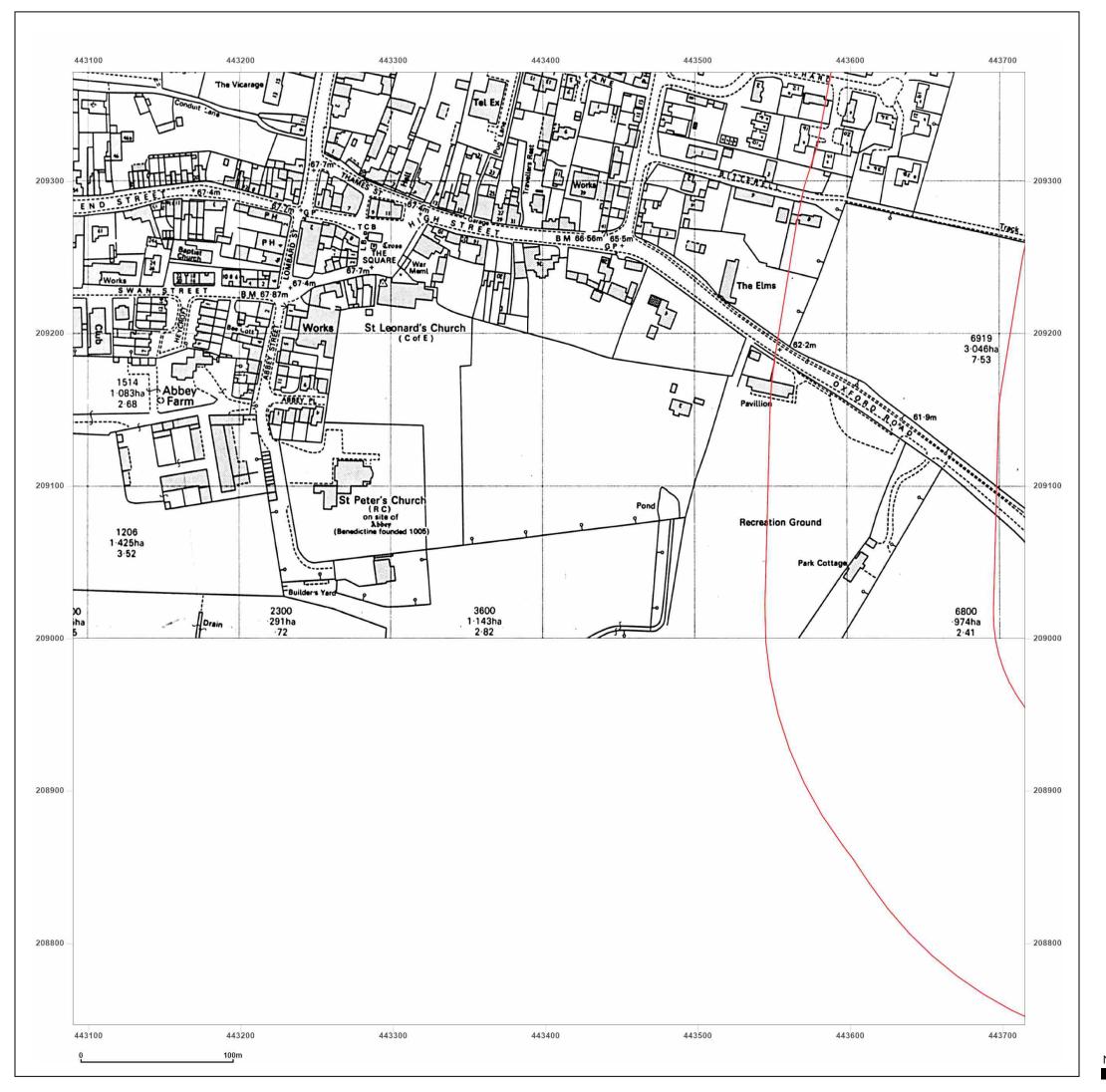


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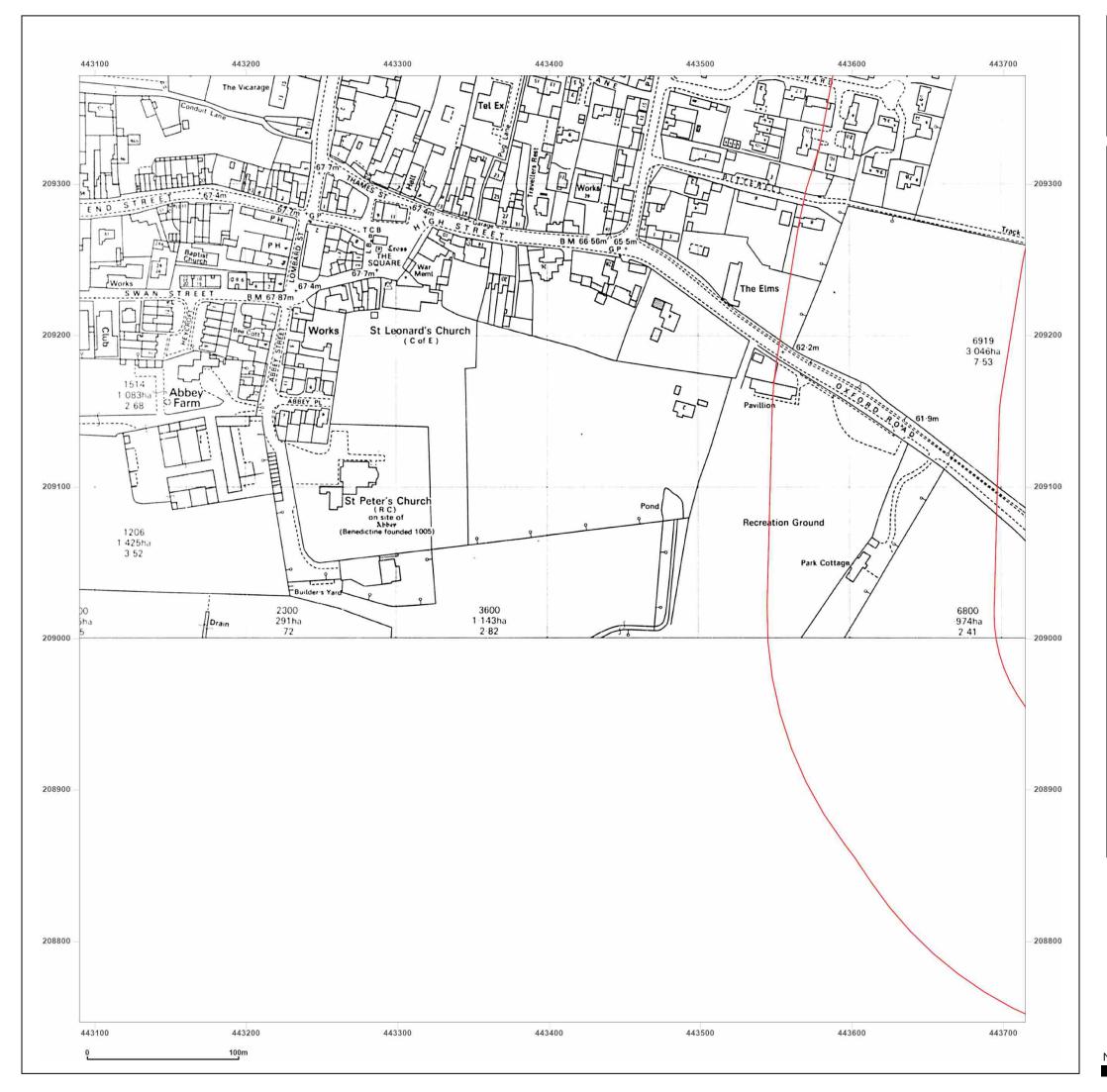
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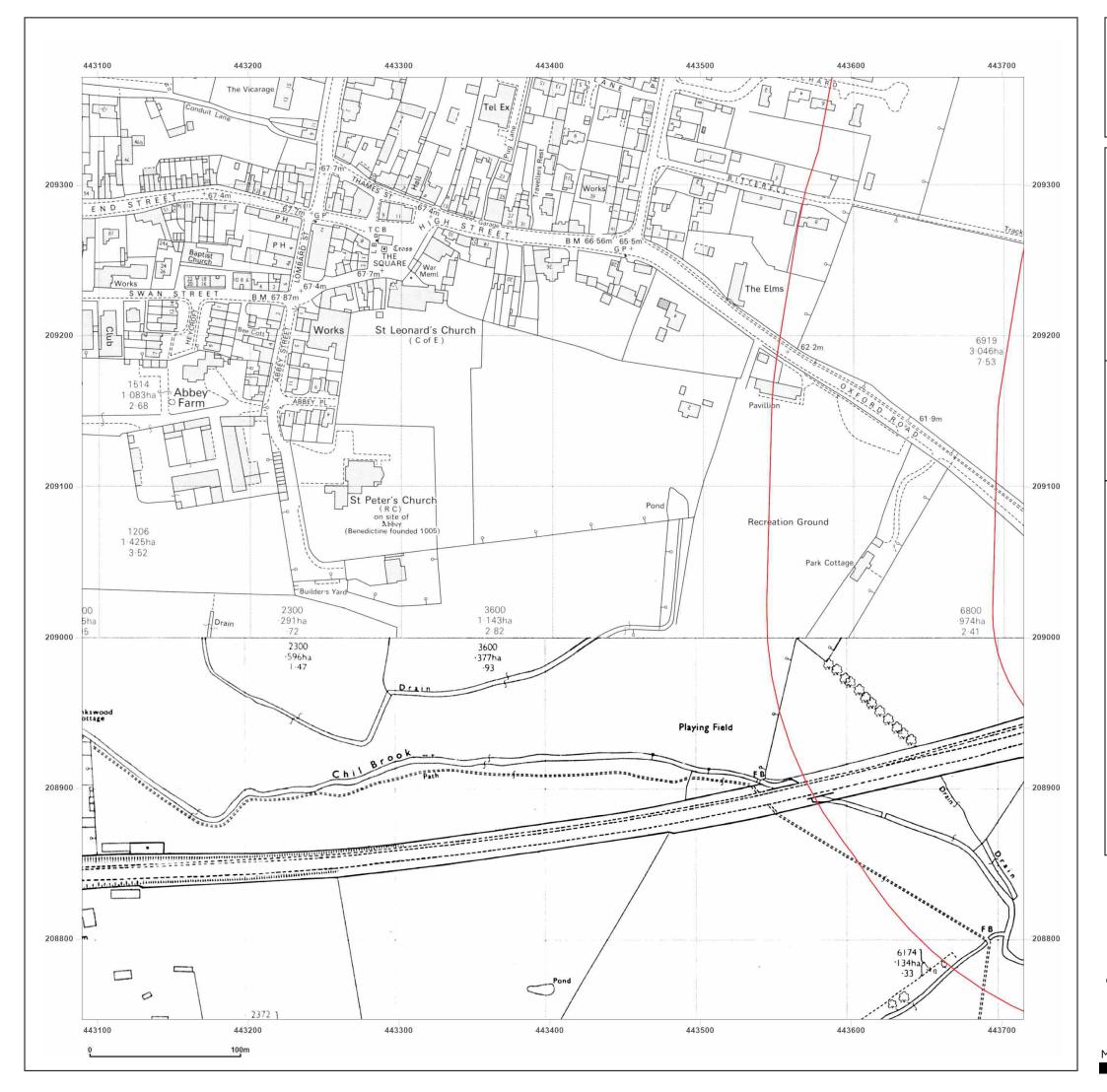


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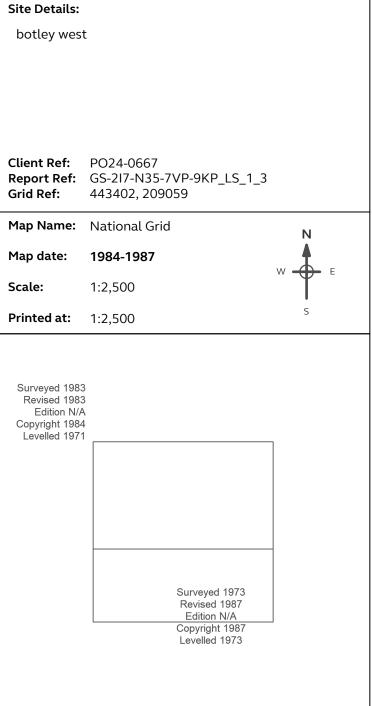


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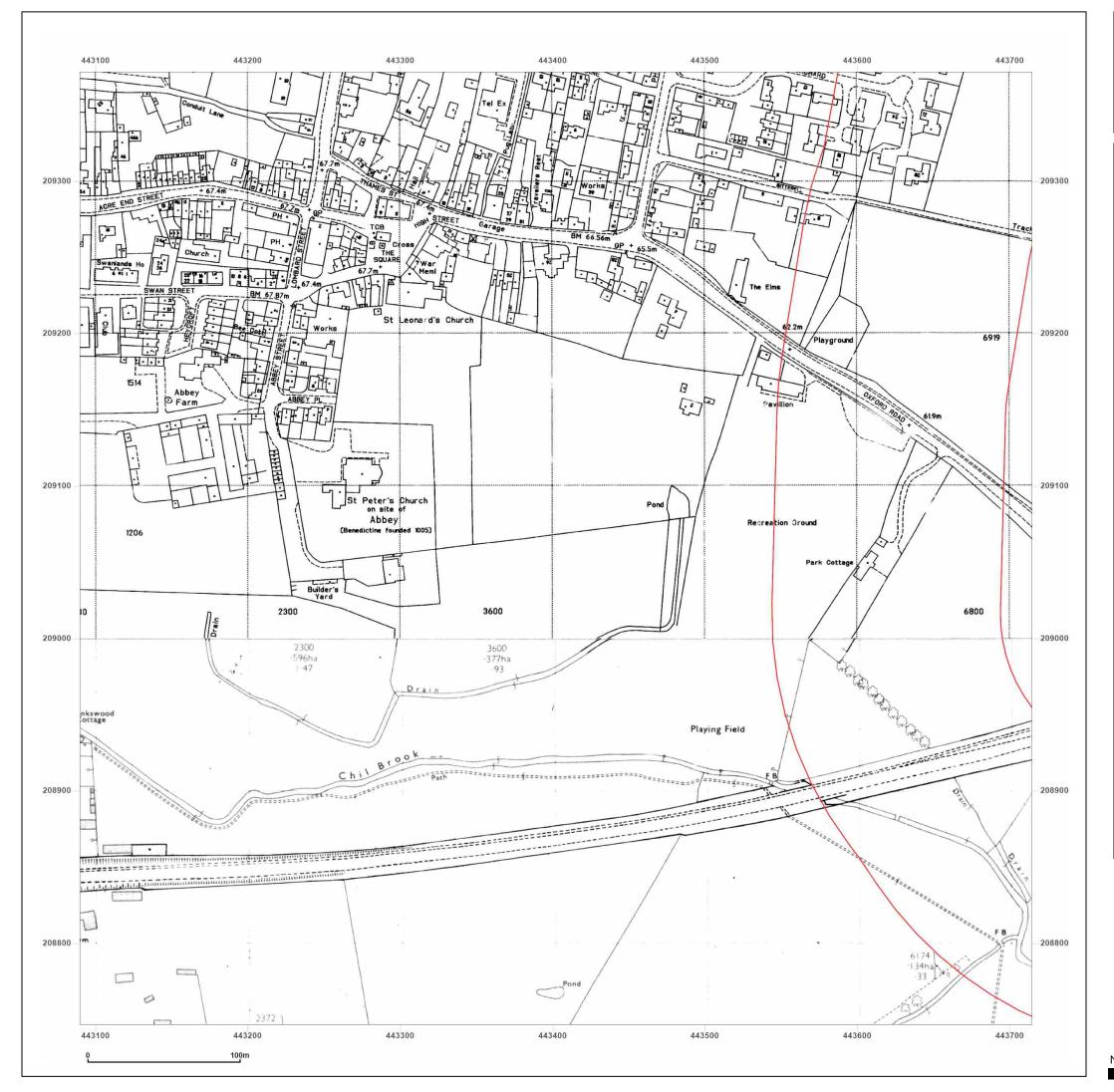




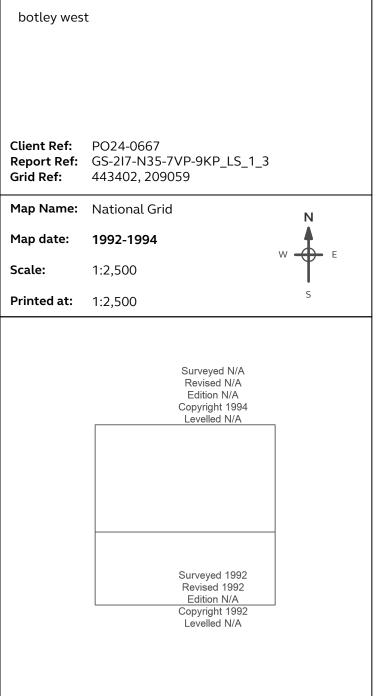


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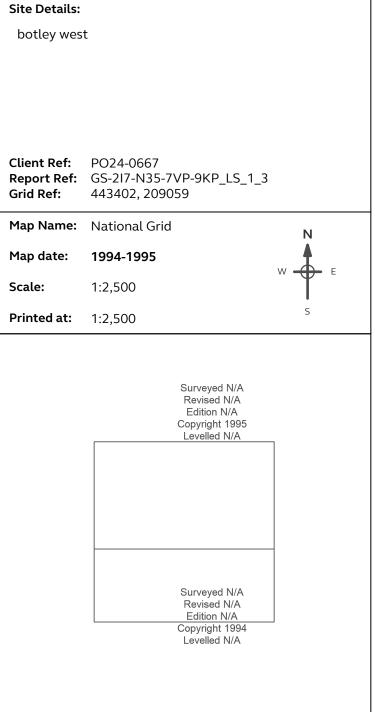
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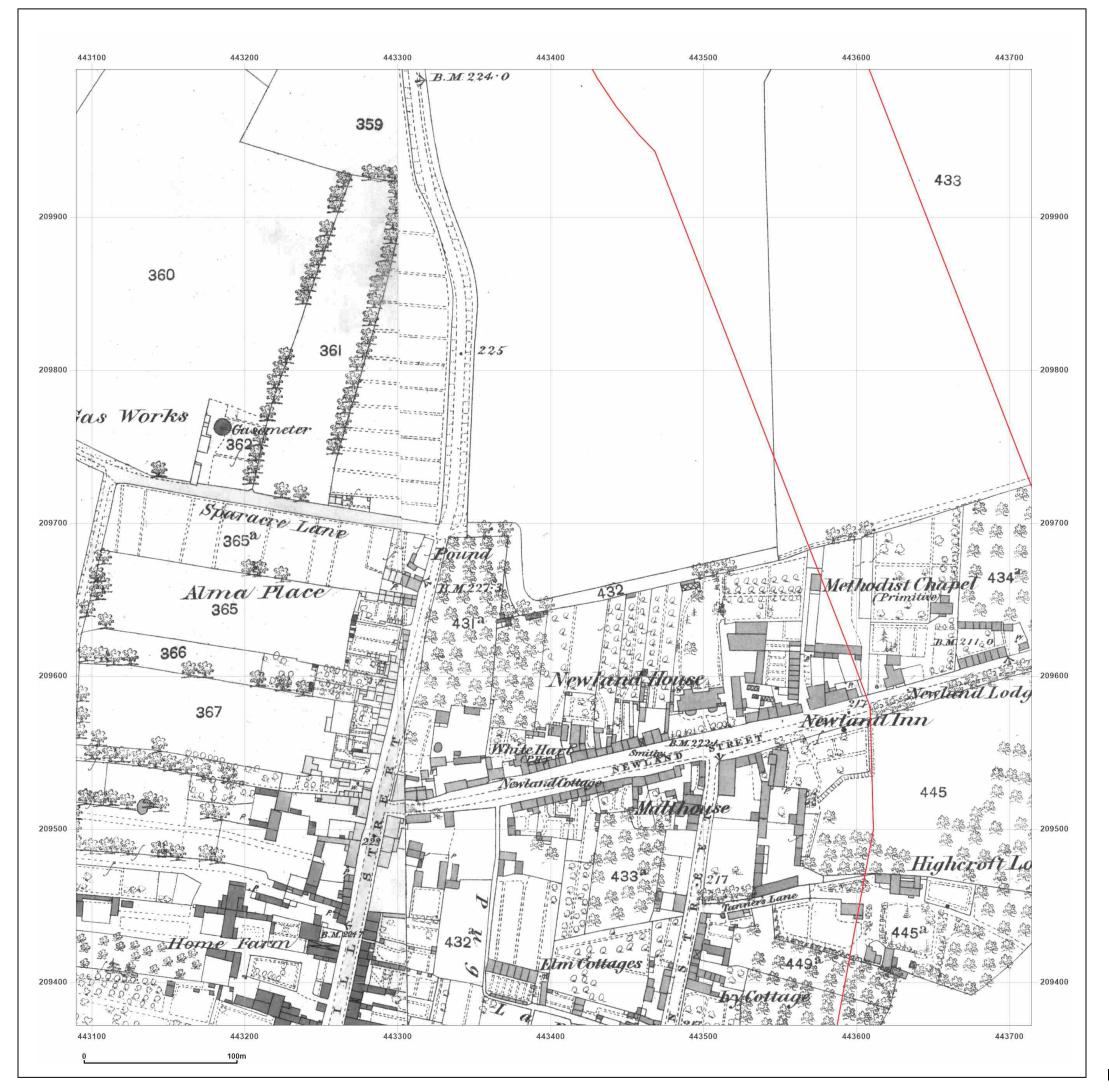


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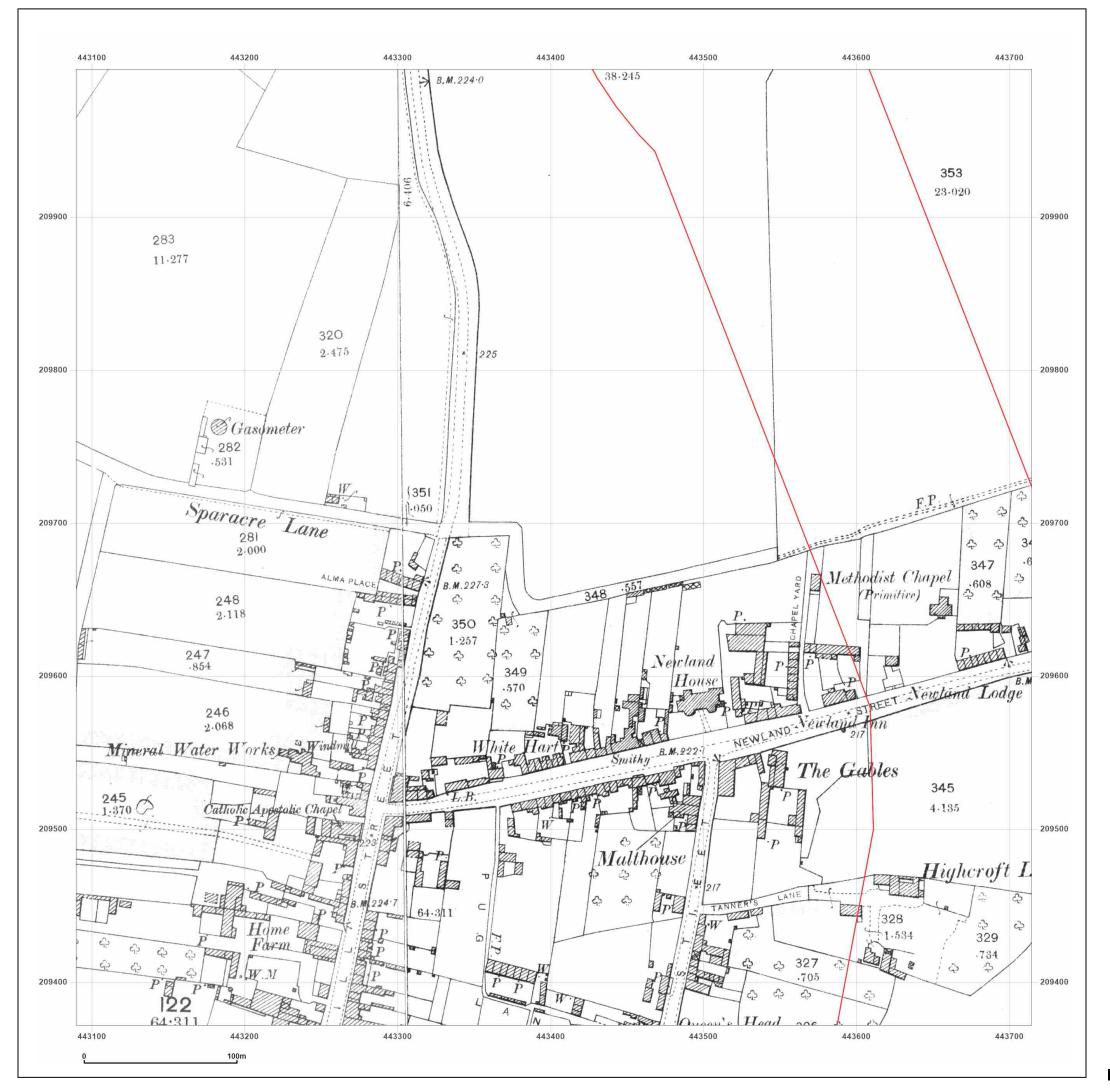
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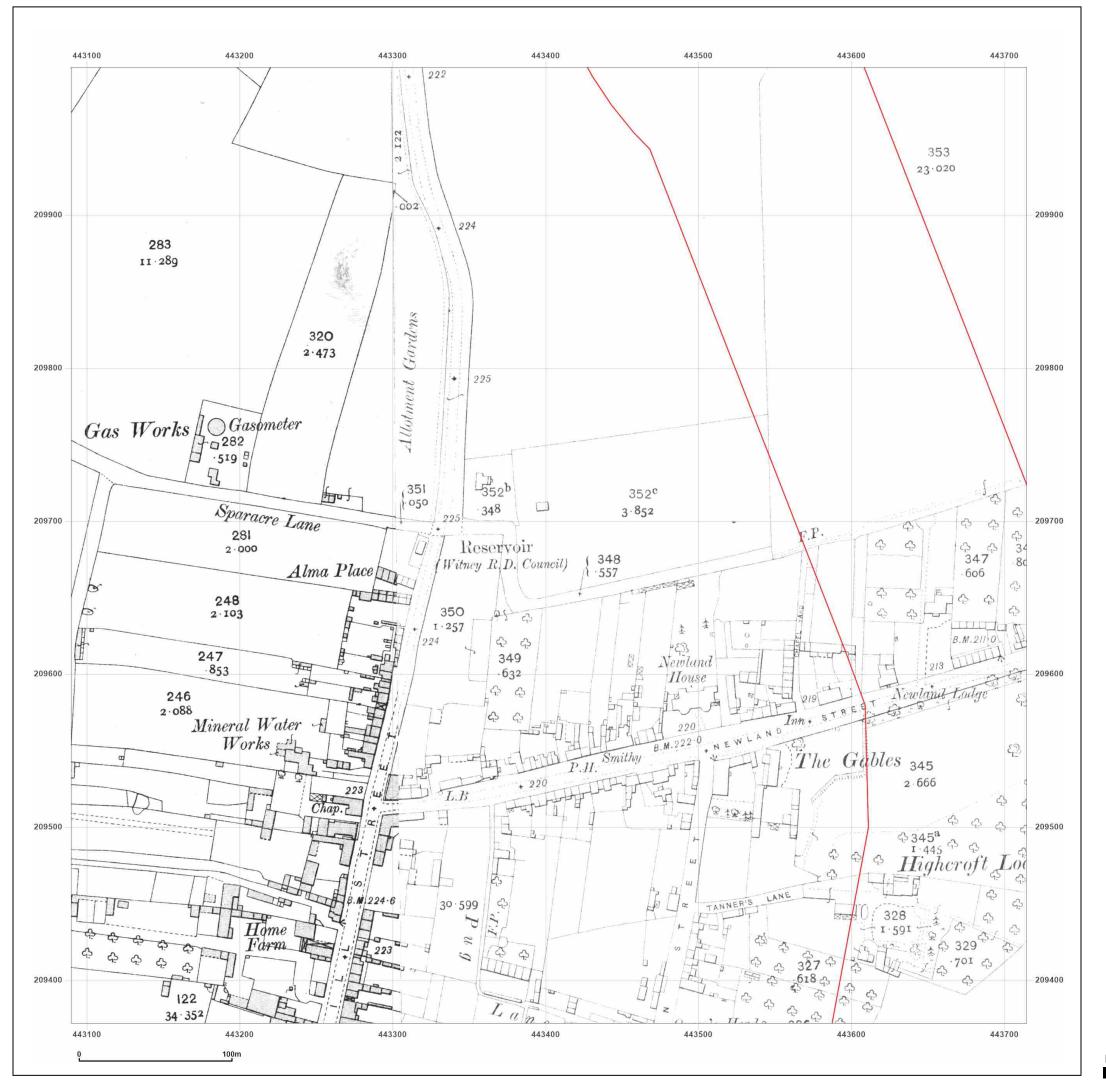


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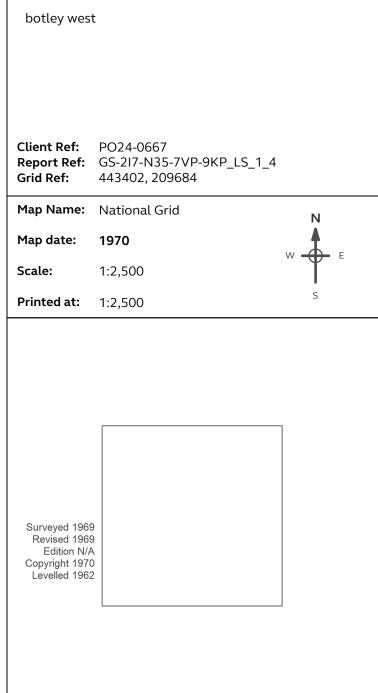
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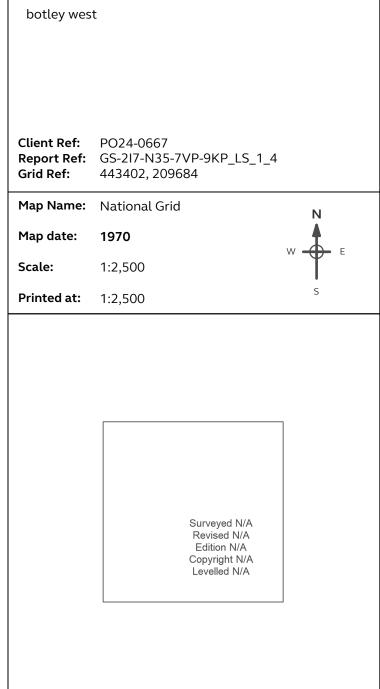
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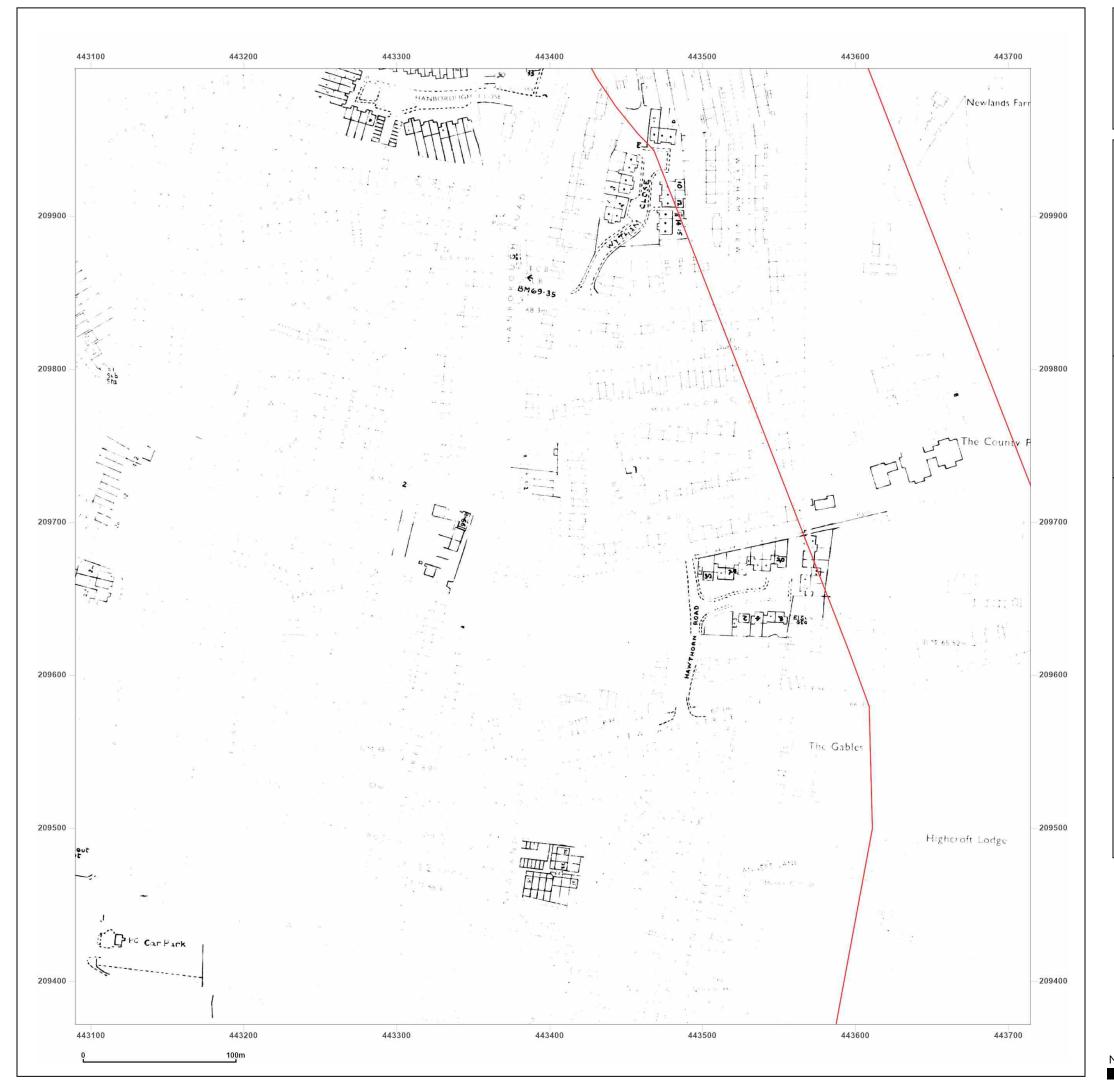




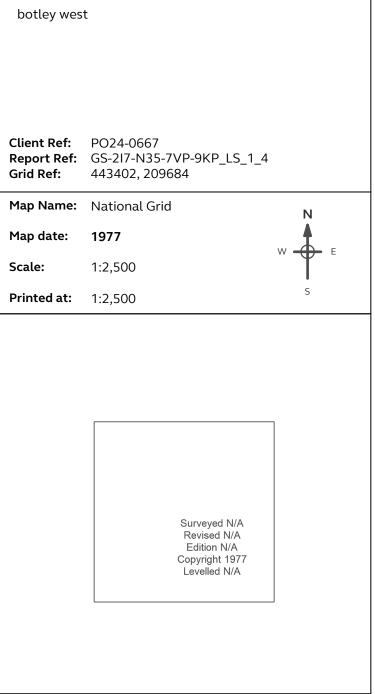
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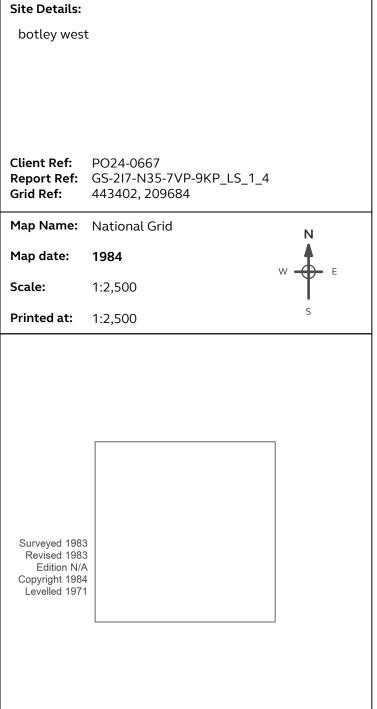
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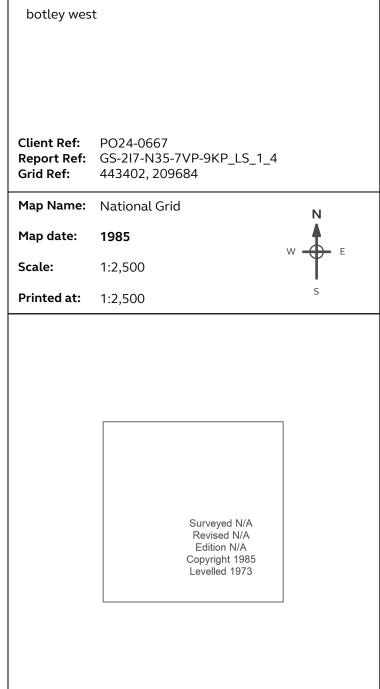


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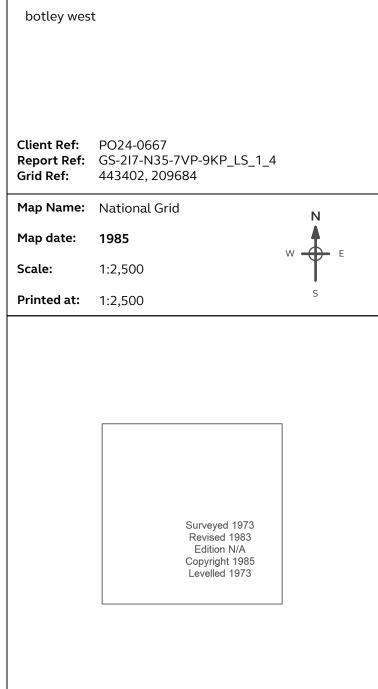
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Report Ref:	PO24-0667 GS-2I7-N35-7VP-9KP_LS_1_4 443402, 209684	
Map Name:	National Grid	N
Map date:	1987	W E
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	Surveyed 1973	
	Revised 1983 Edition N/A	
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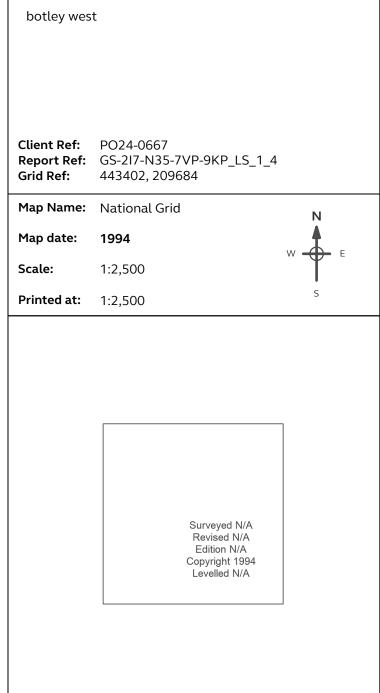
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Map date:	W E
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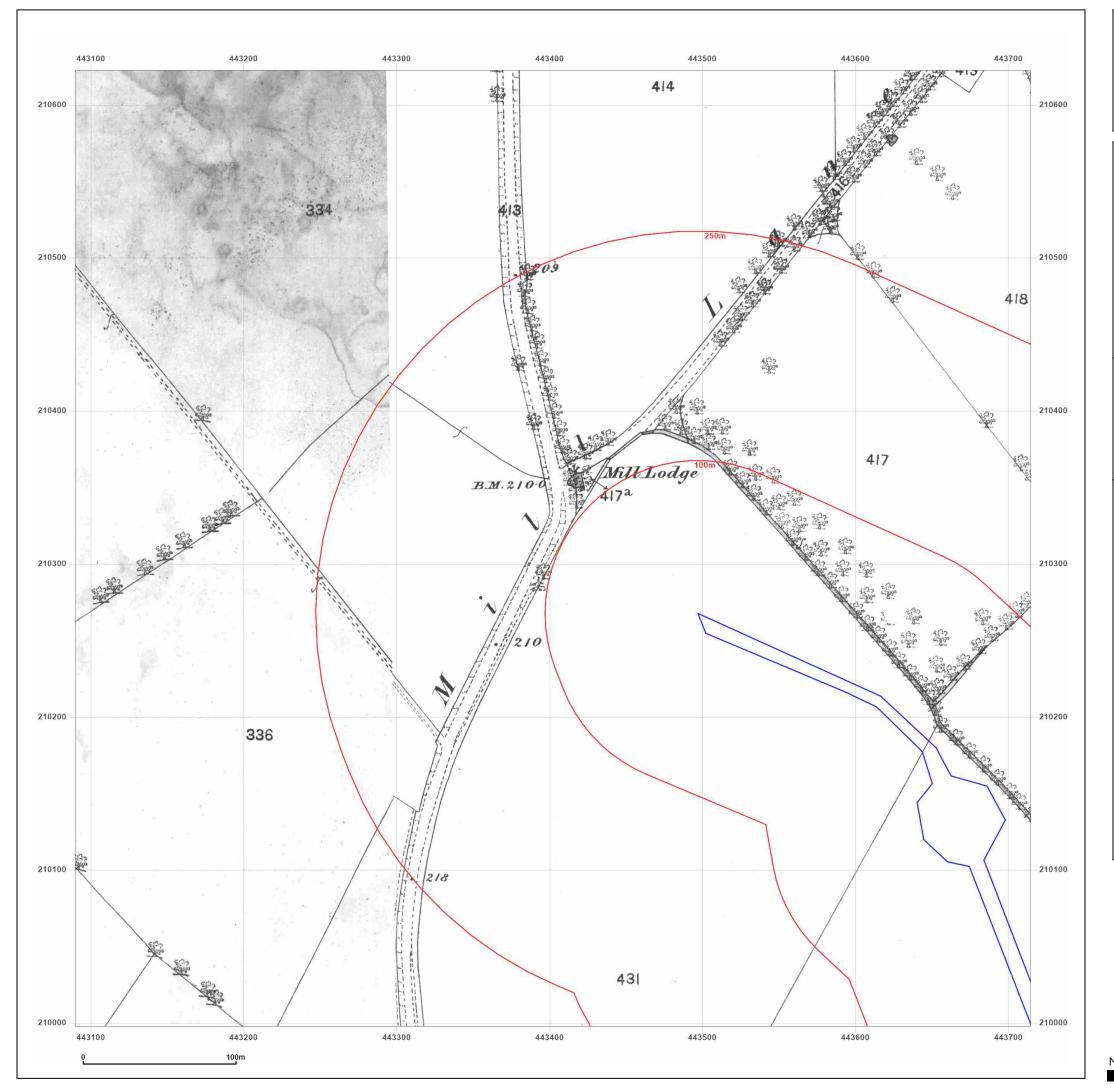
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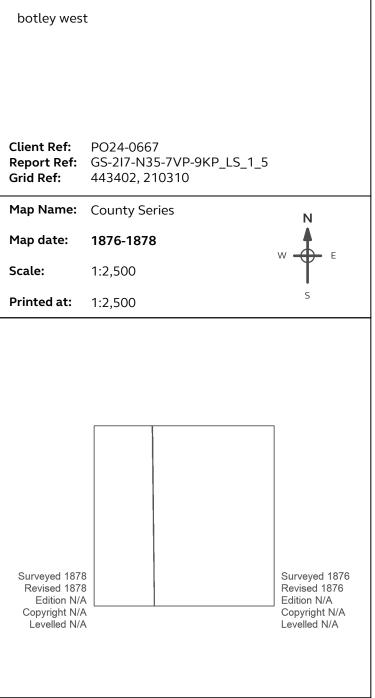
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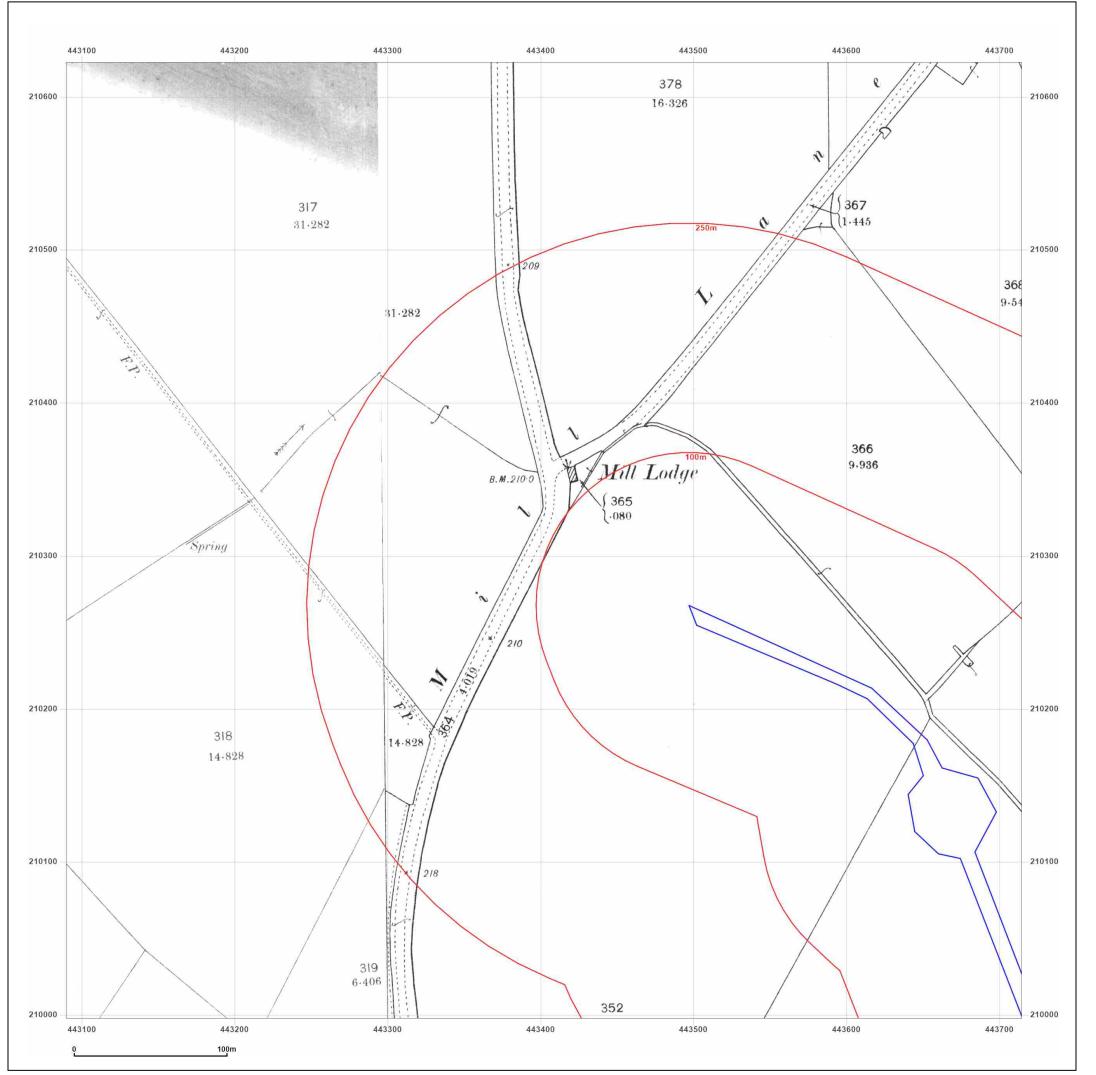




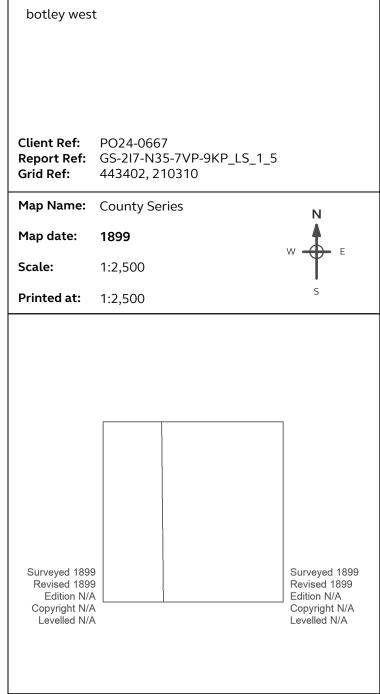
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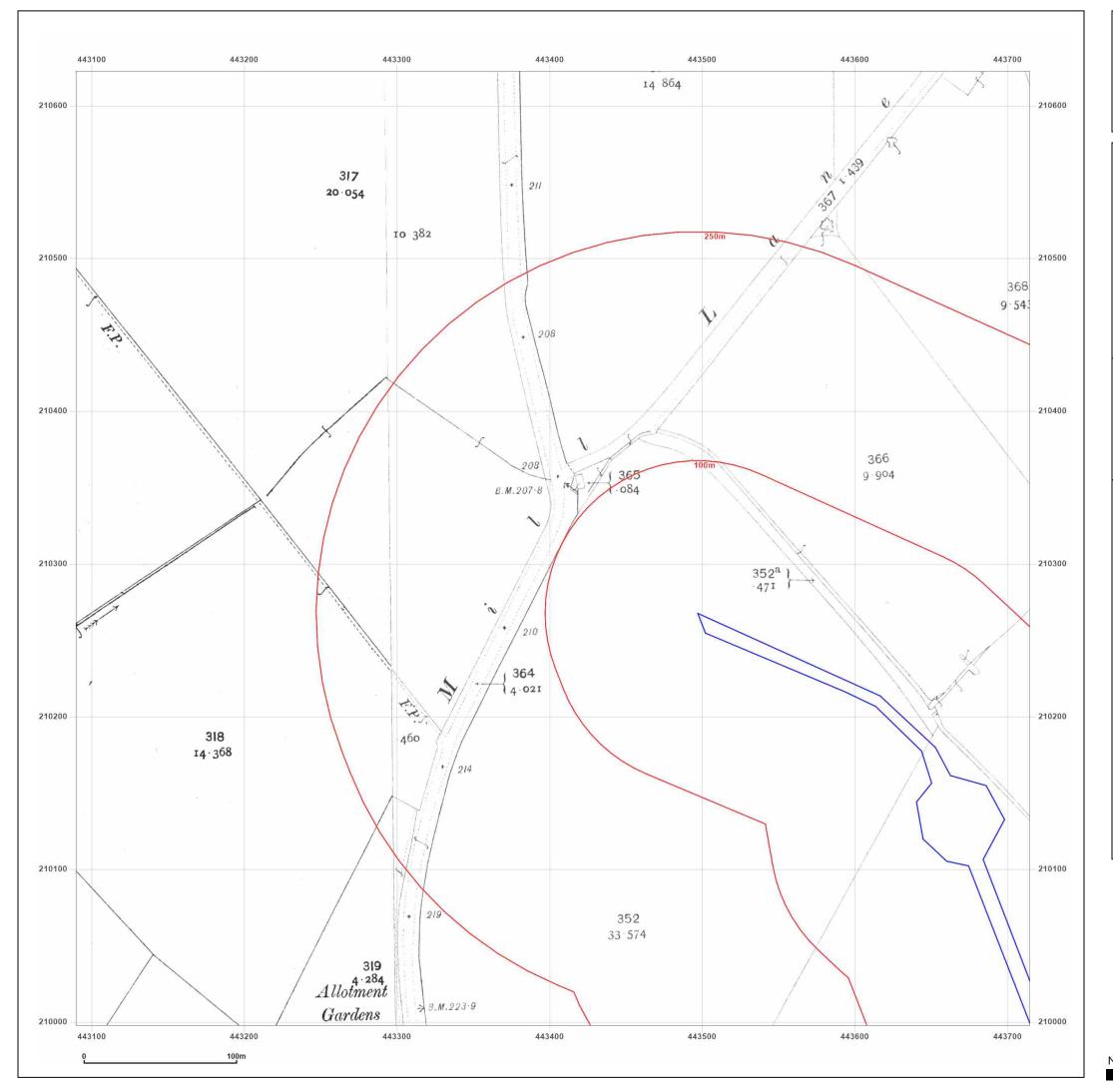




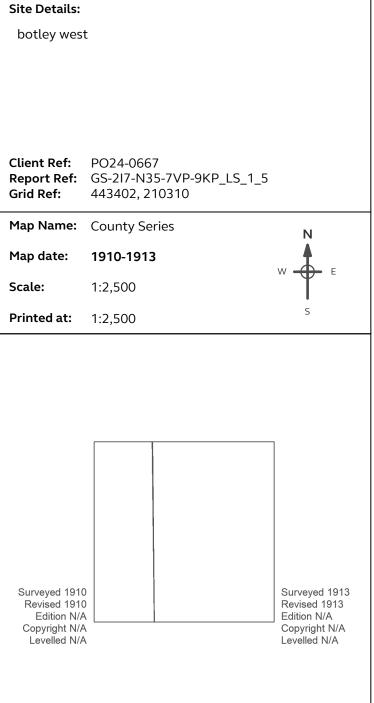
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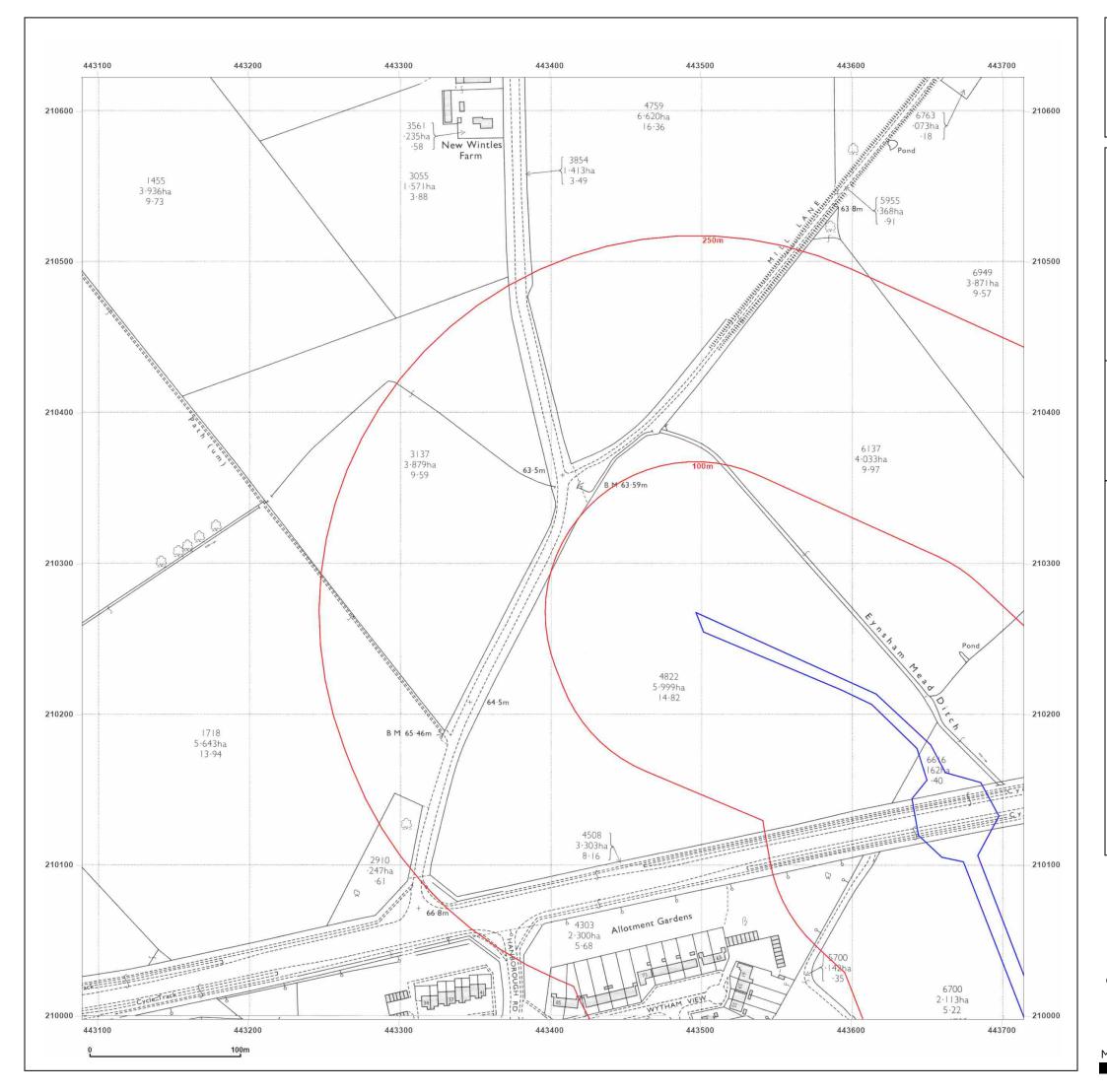






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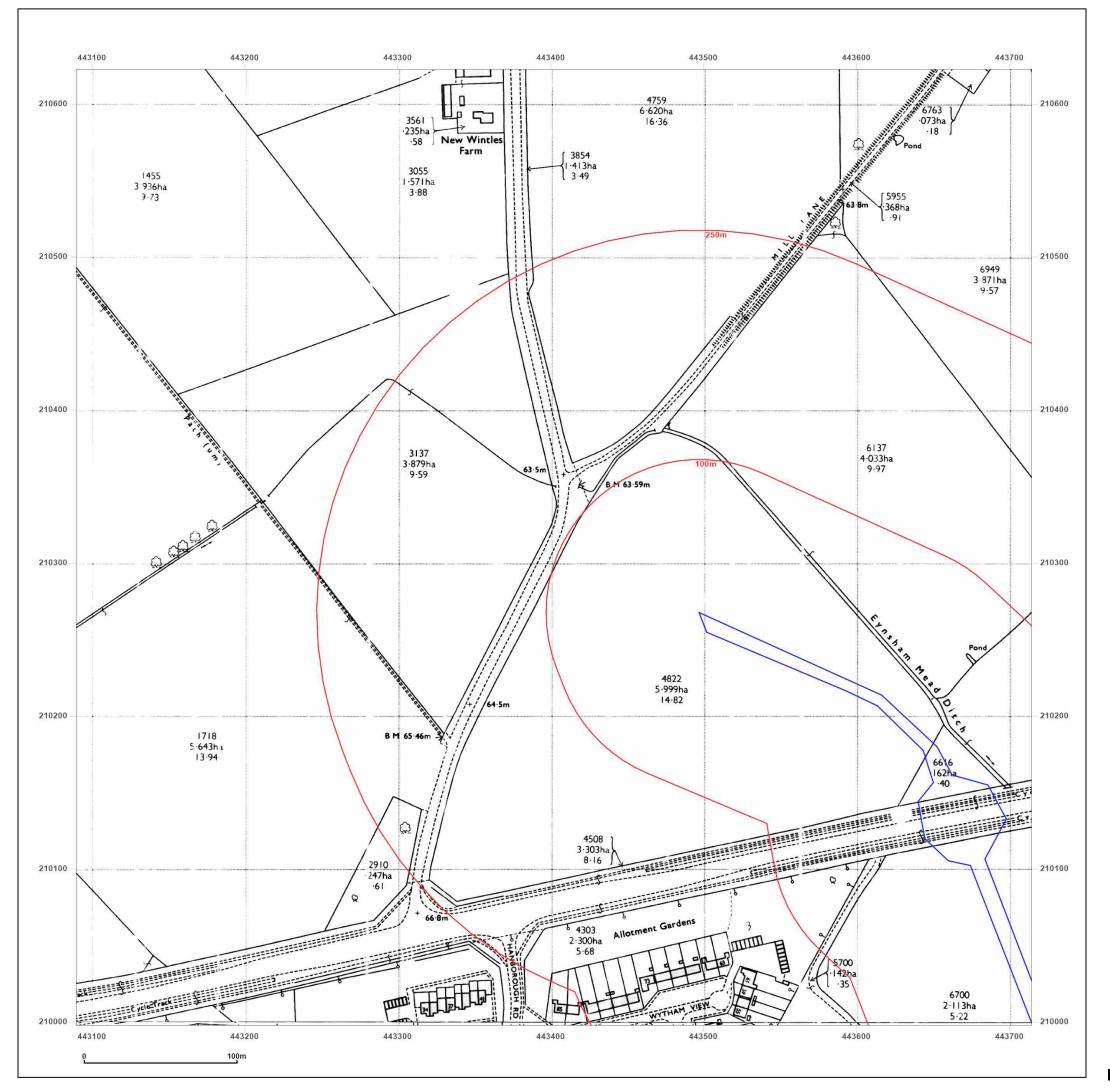


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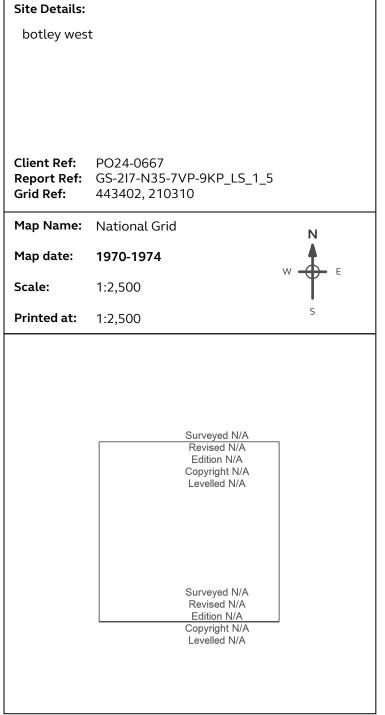


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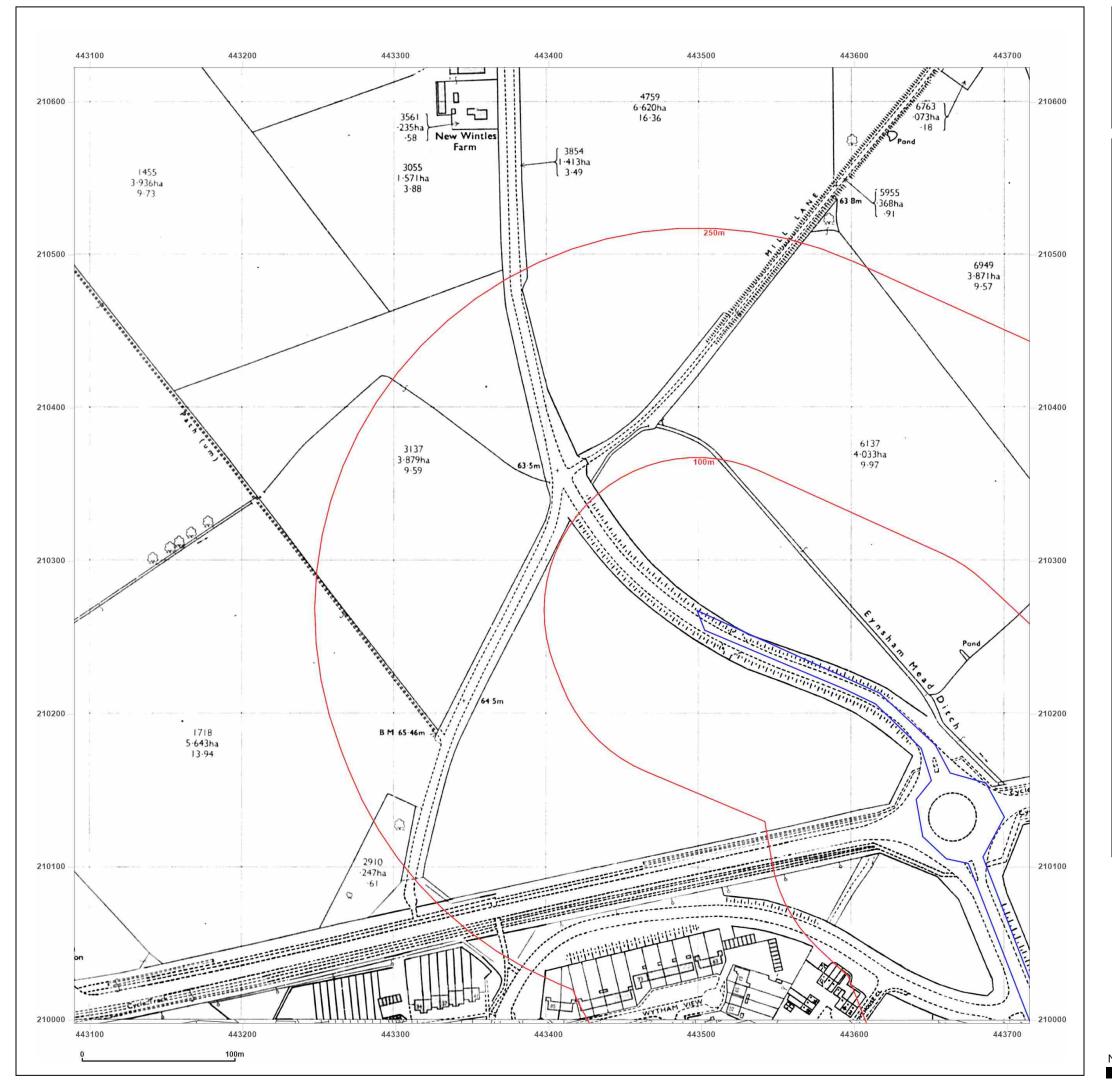




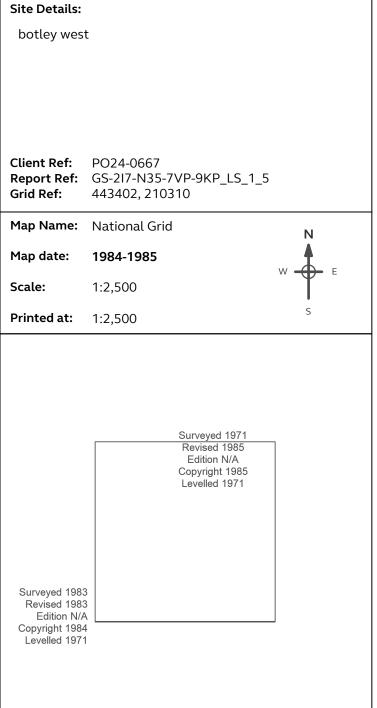


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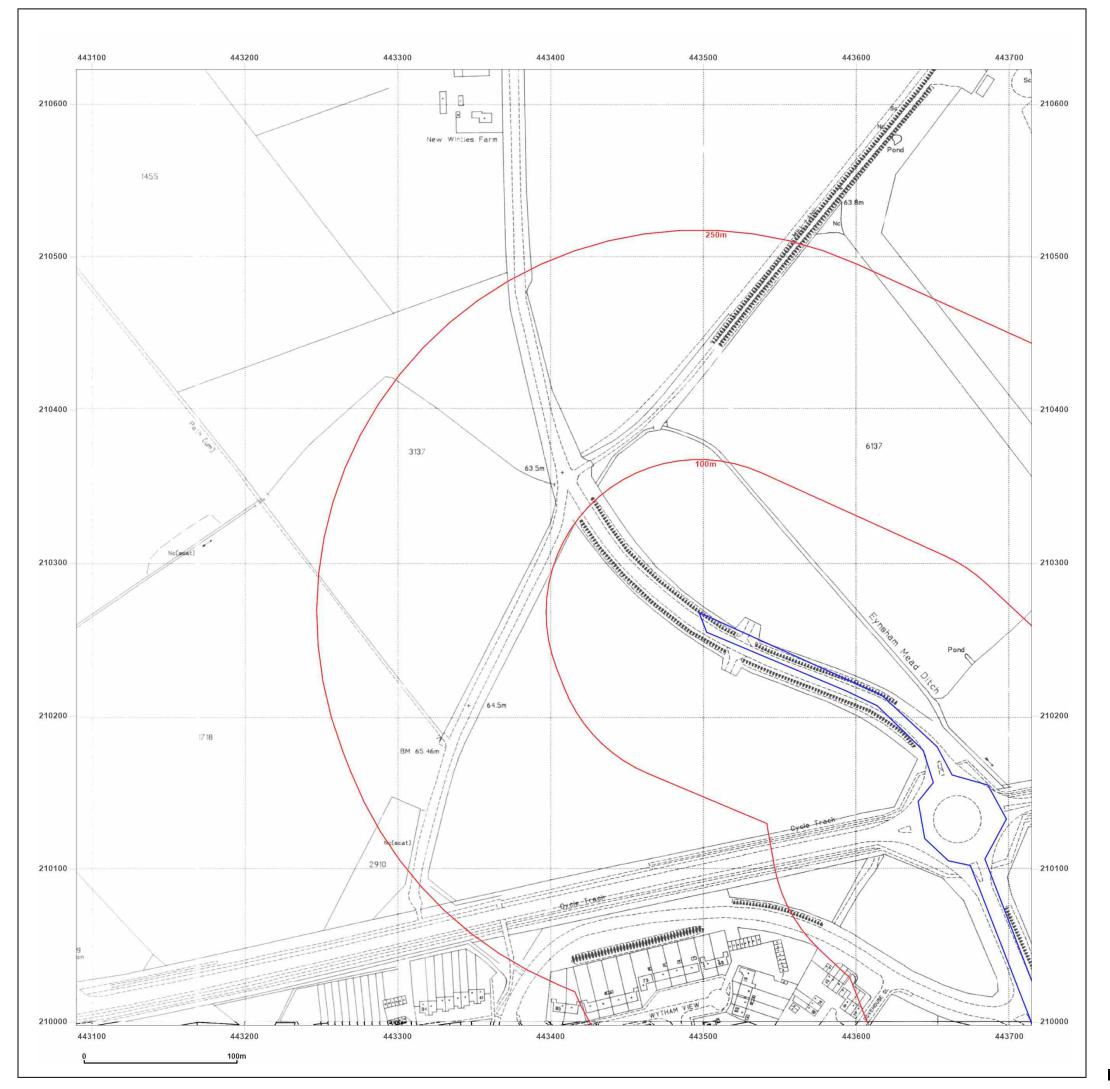




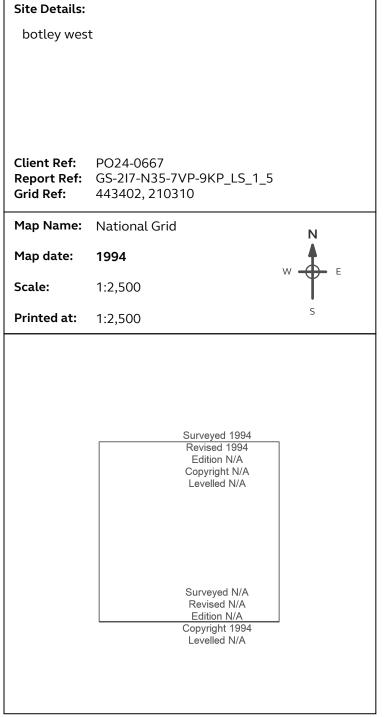


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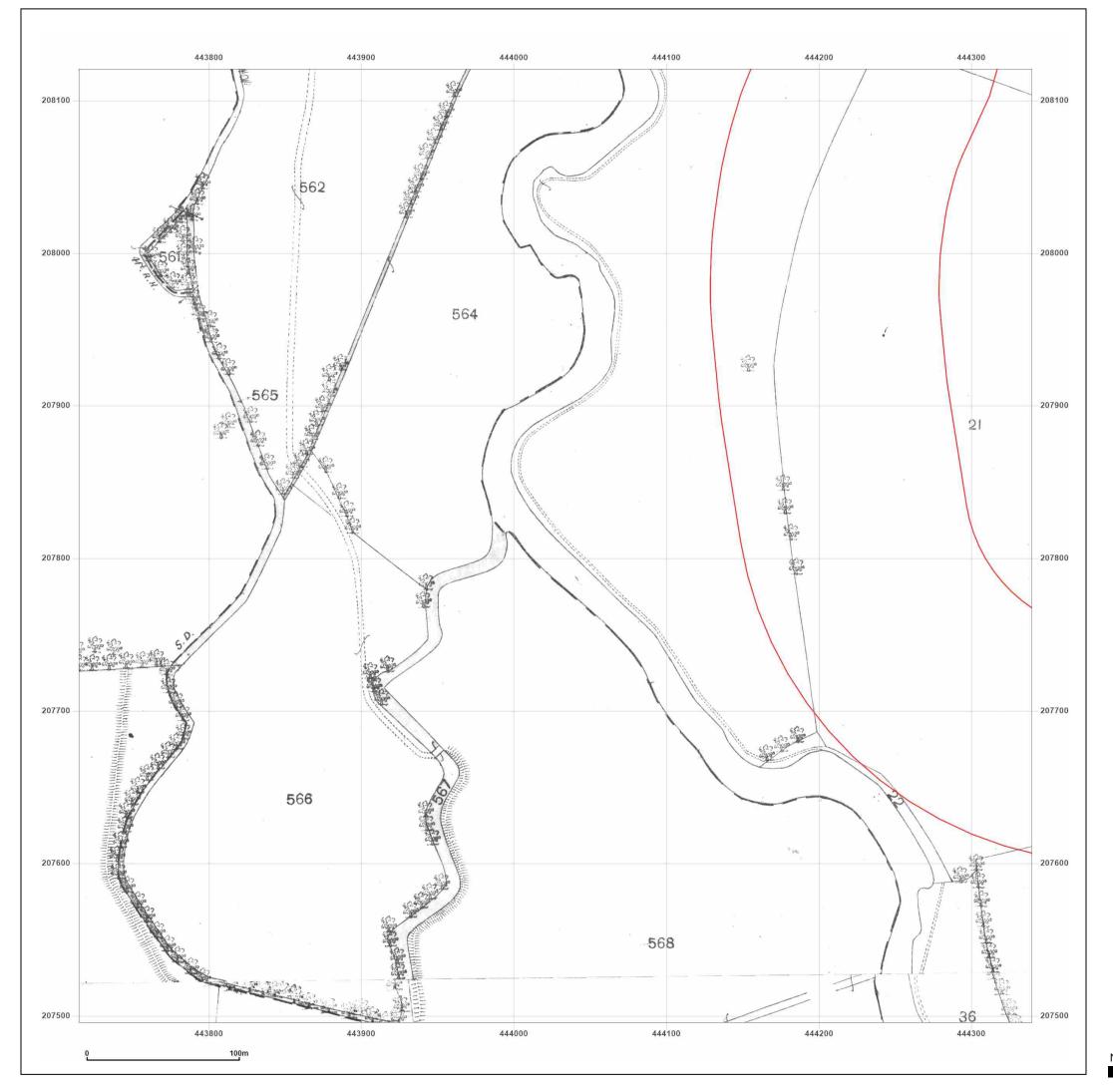




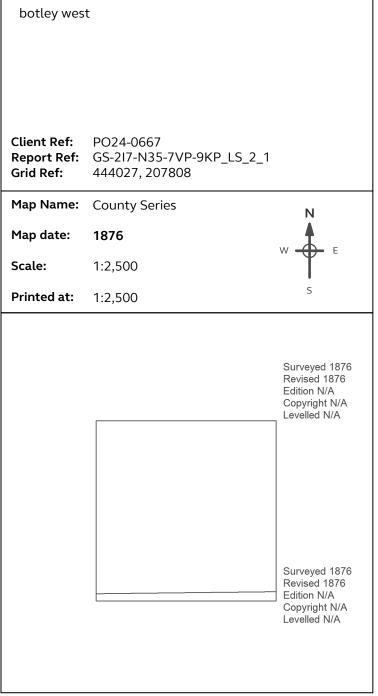


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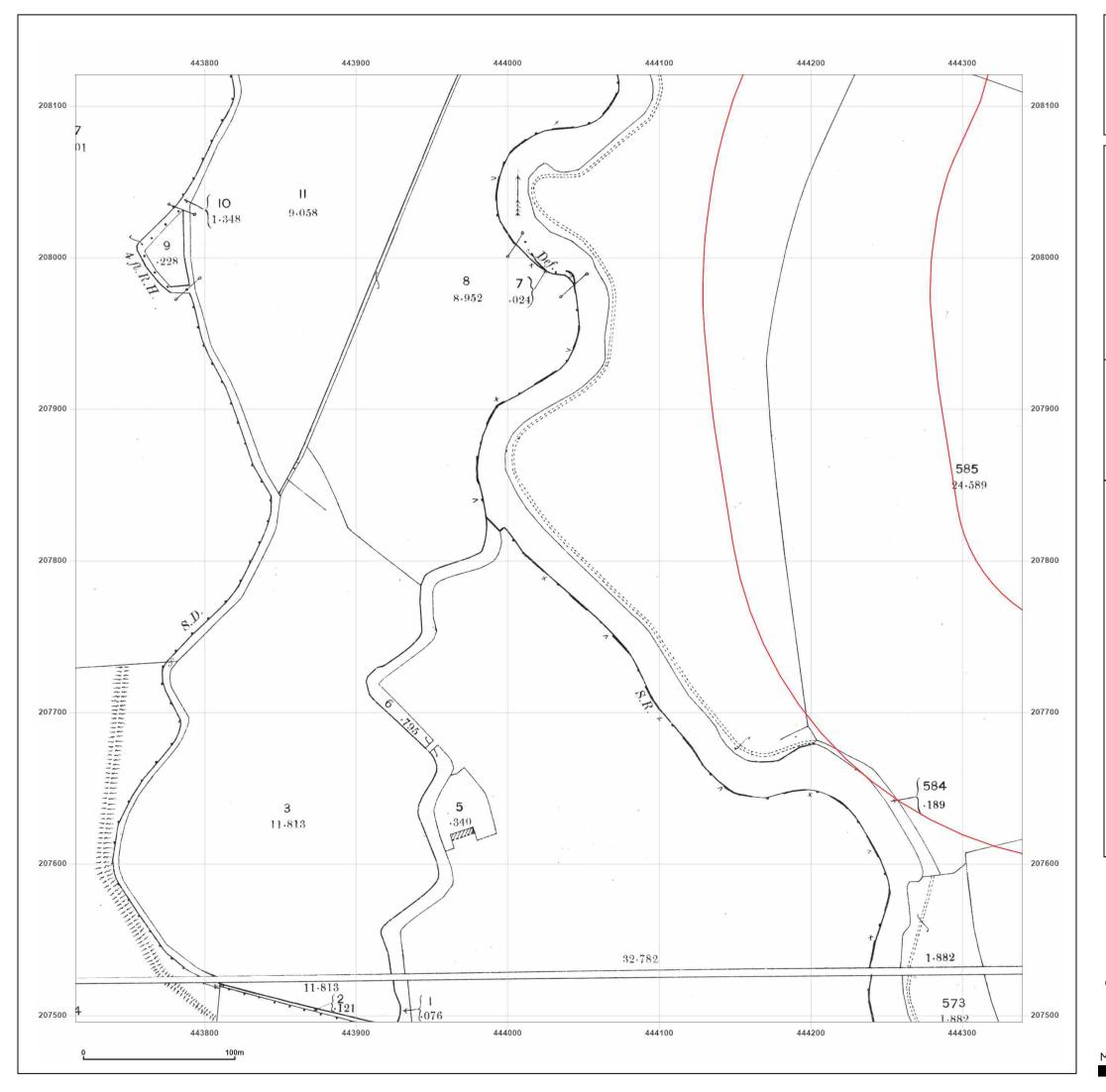




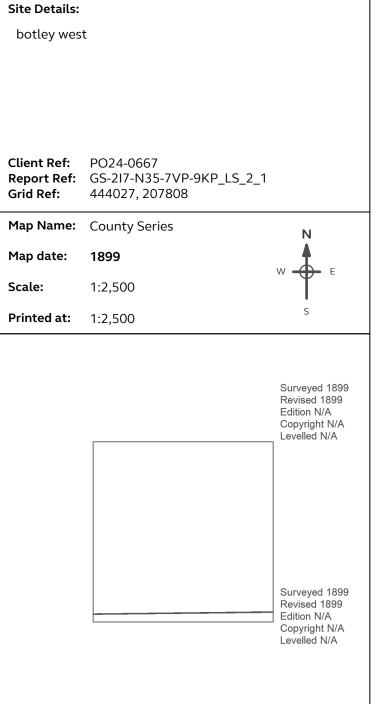
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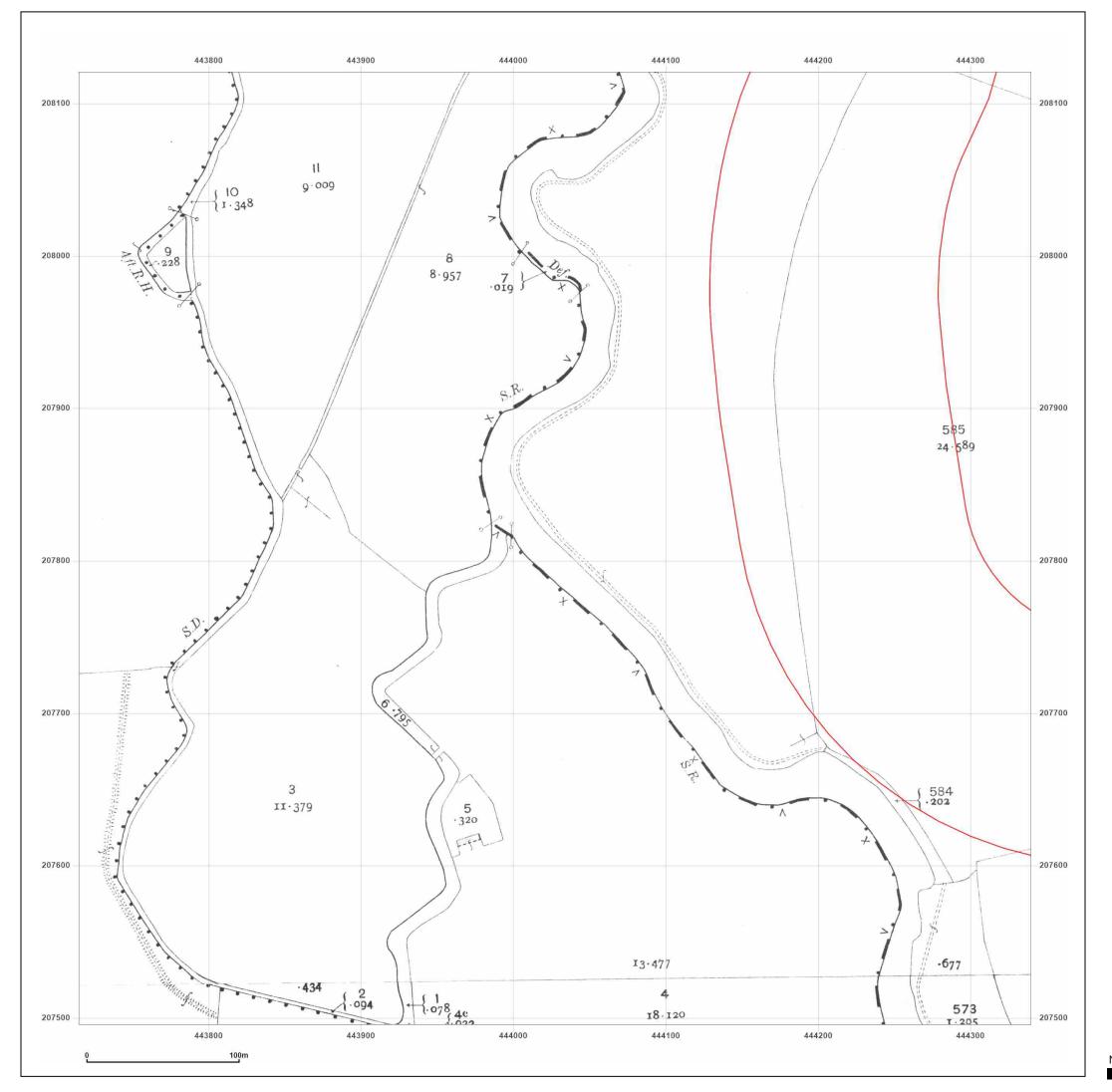




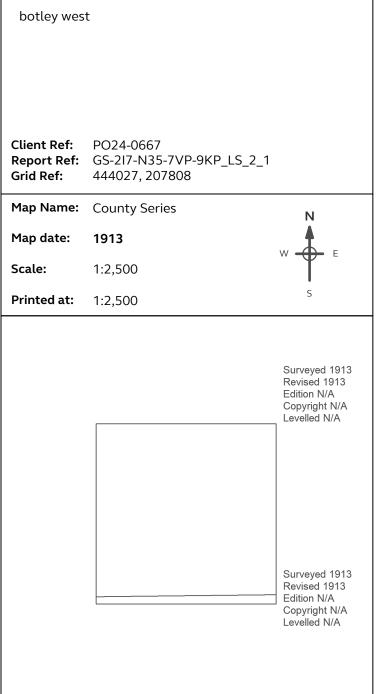


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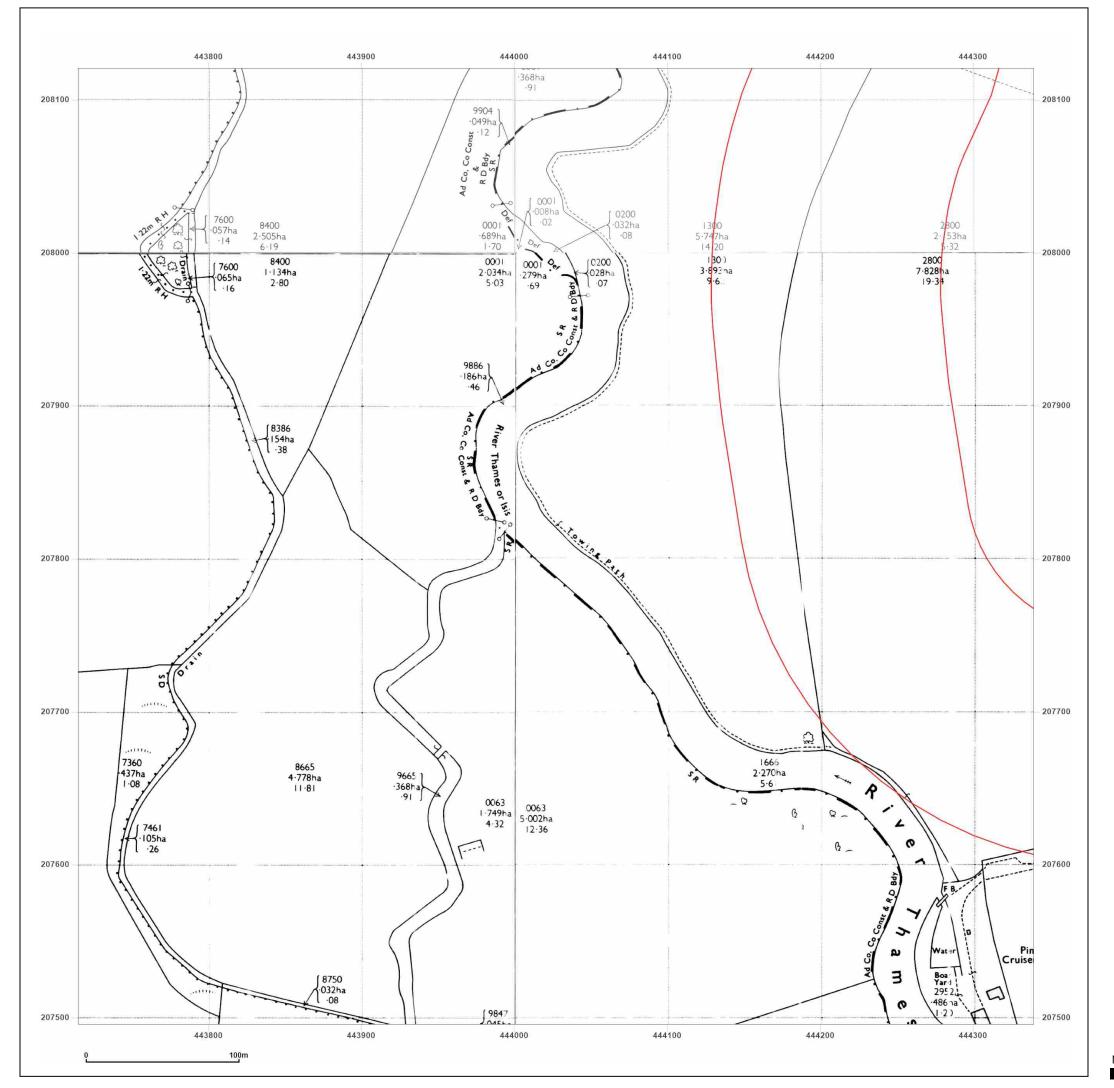




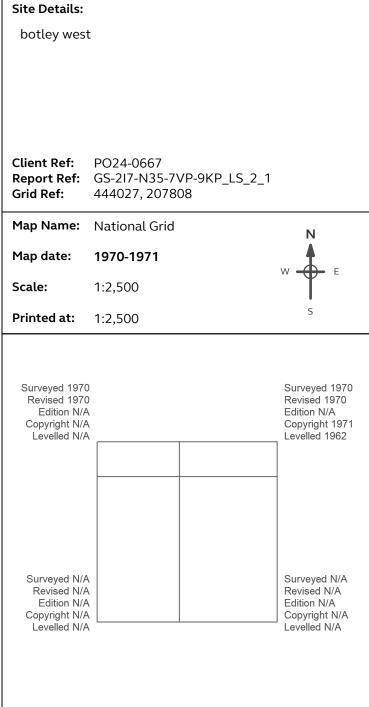
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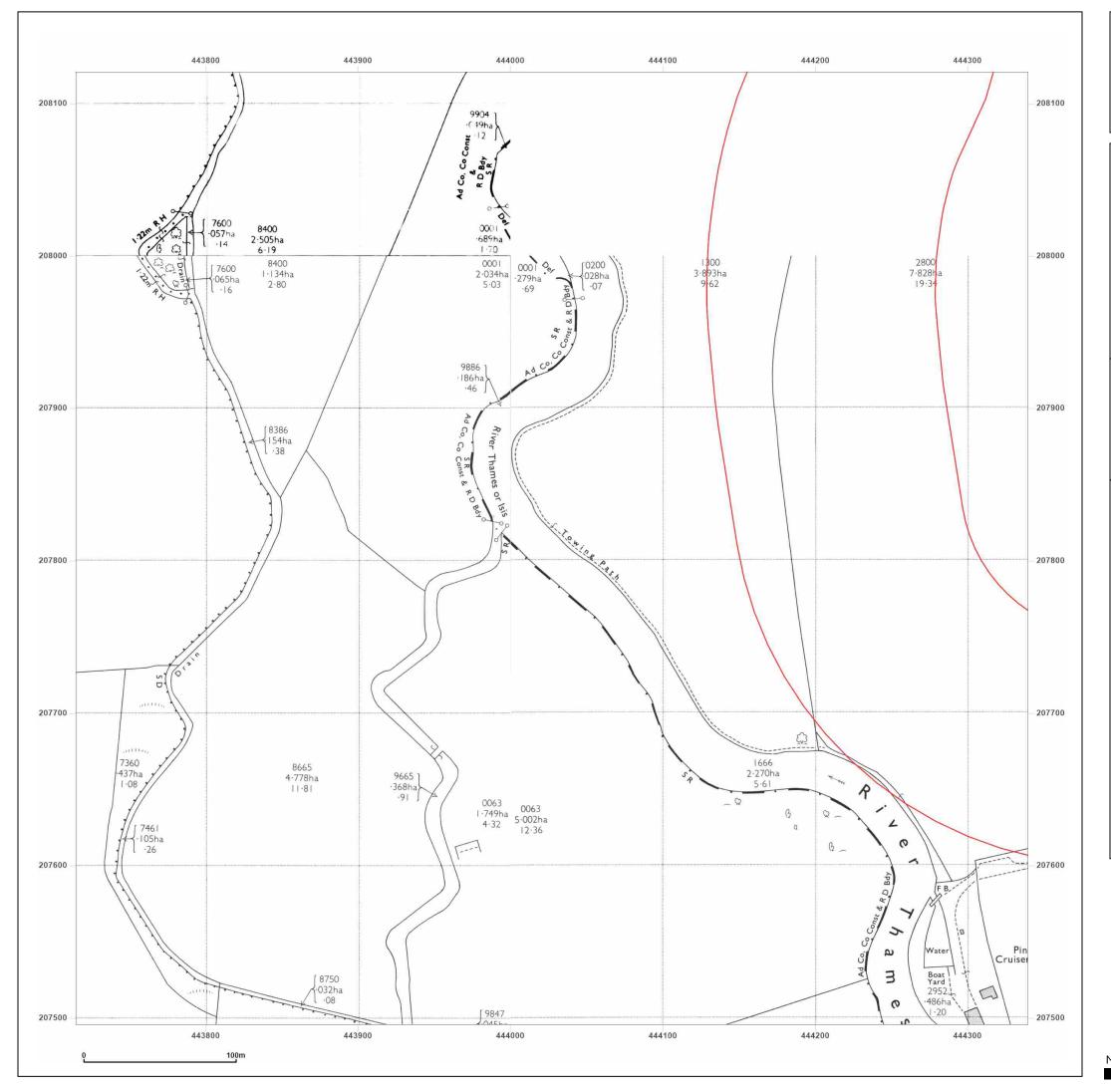




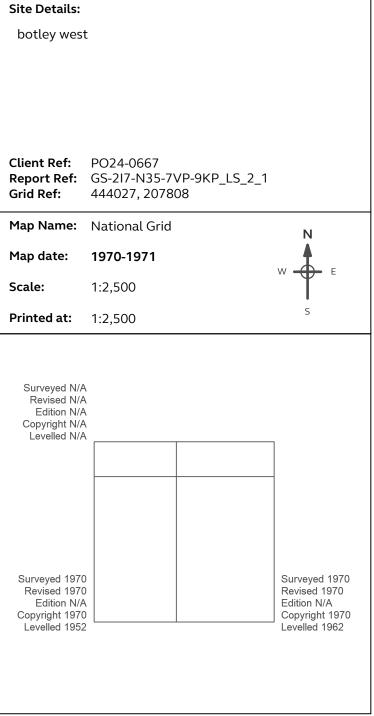


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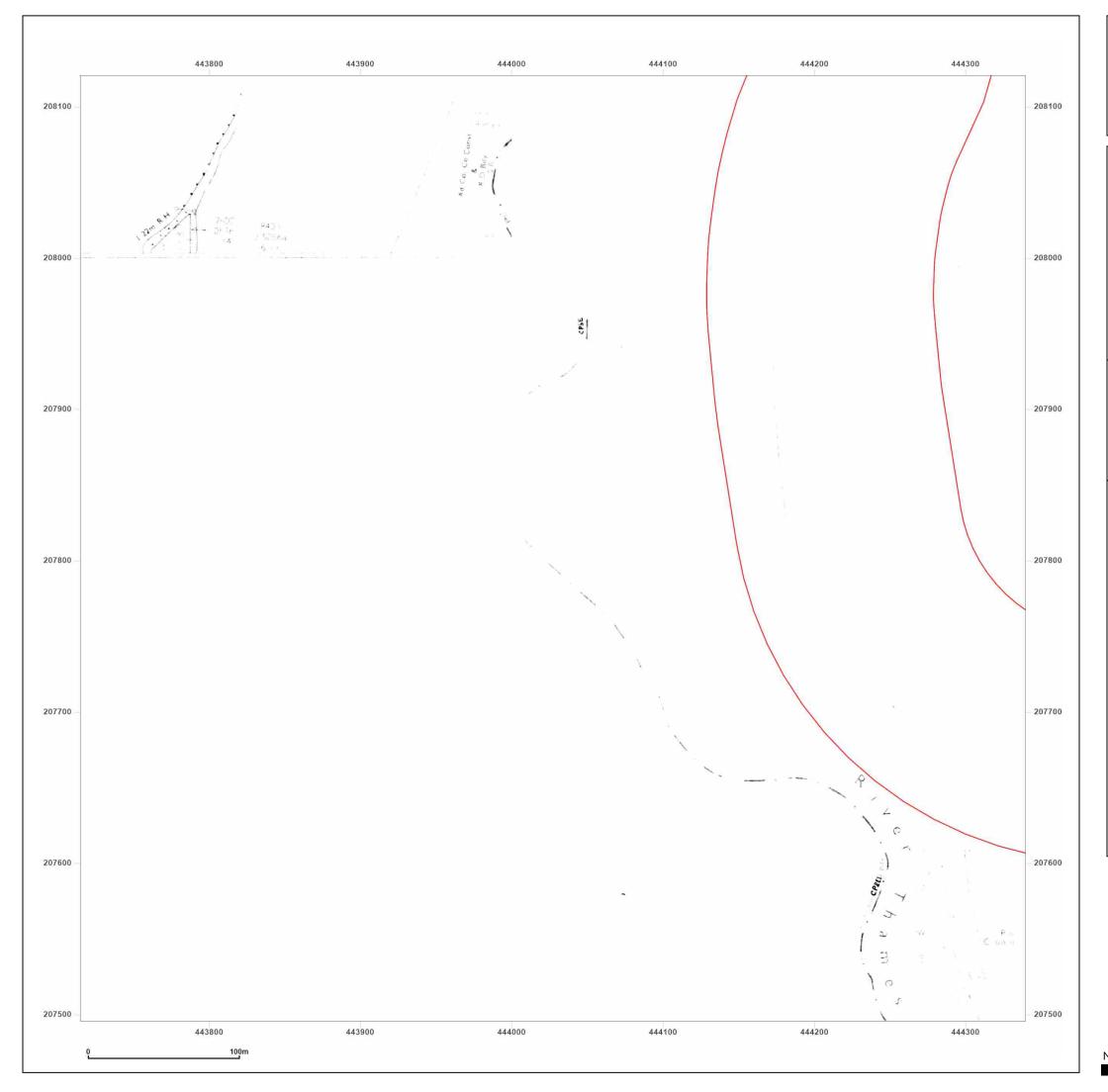






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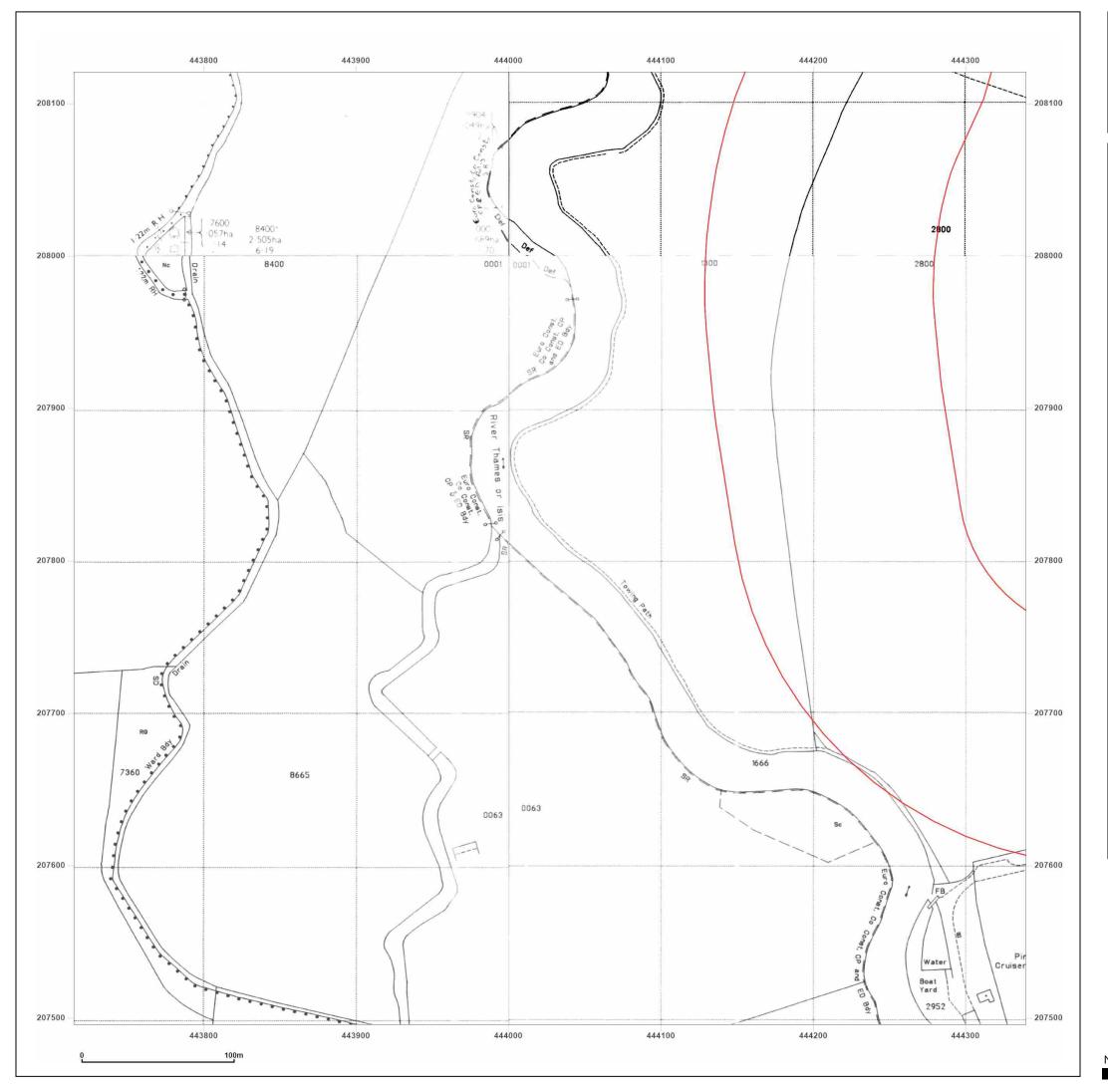
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Map date:	1977	W F
Scale:	1:2,500	
Printed at:	1:2,500	S
Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	A A	1
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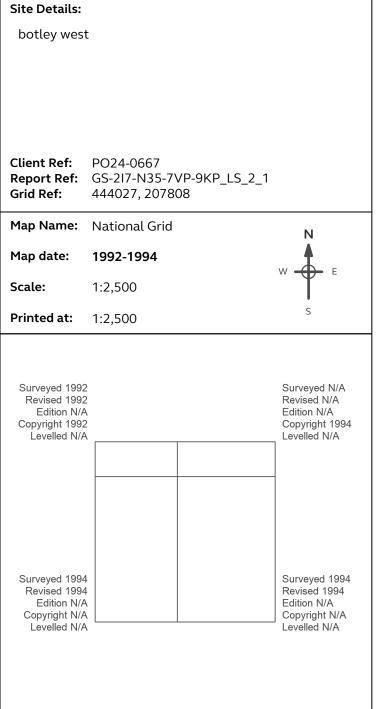
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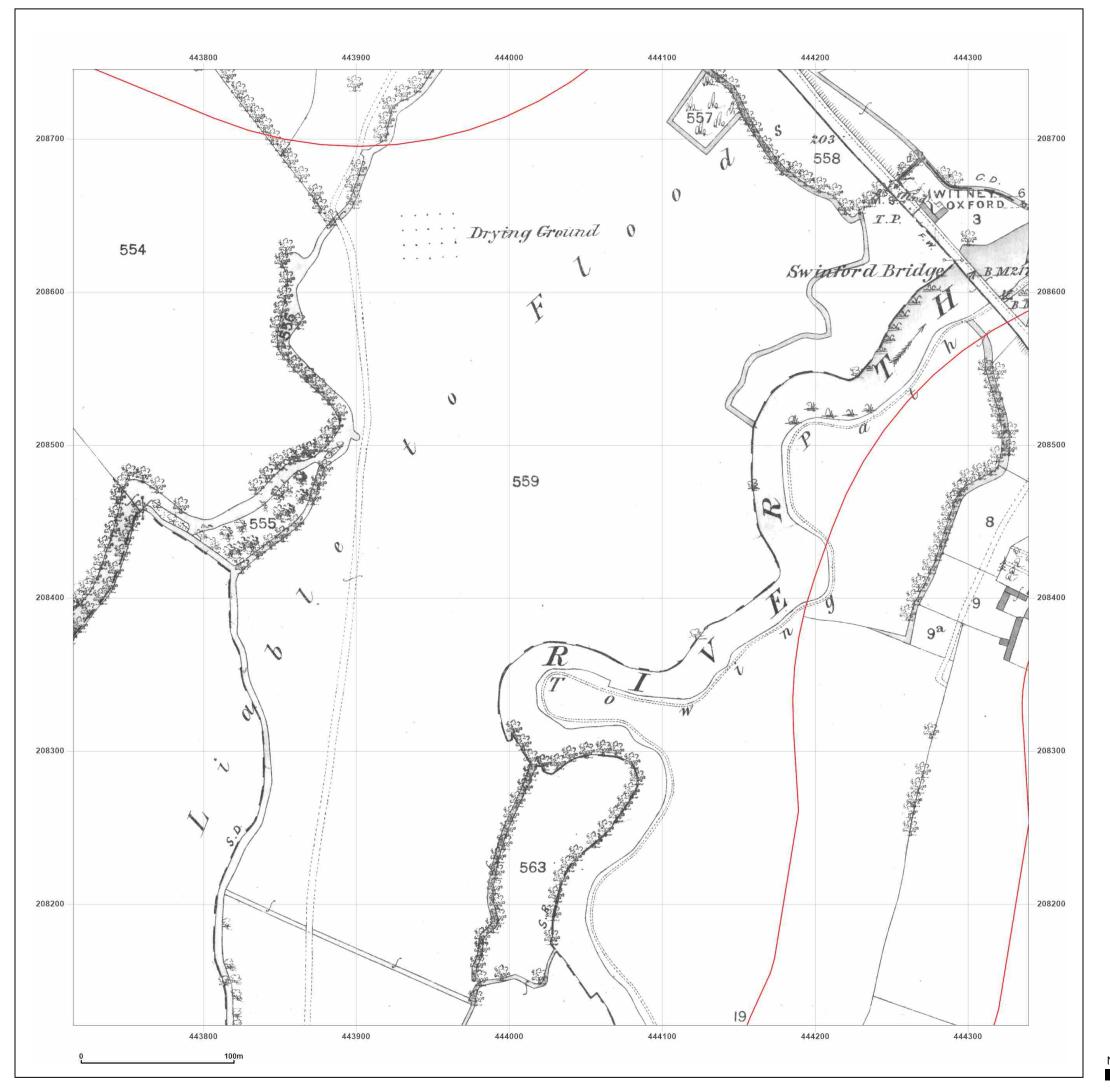






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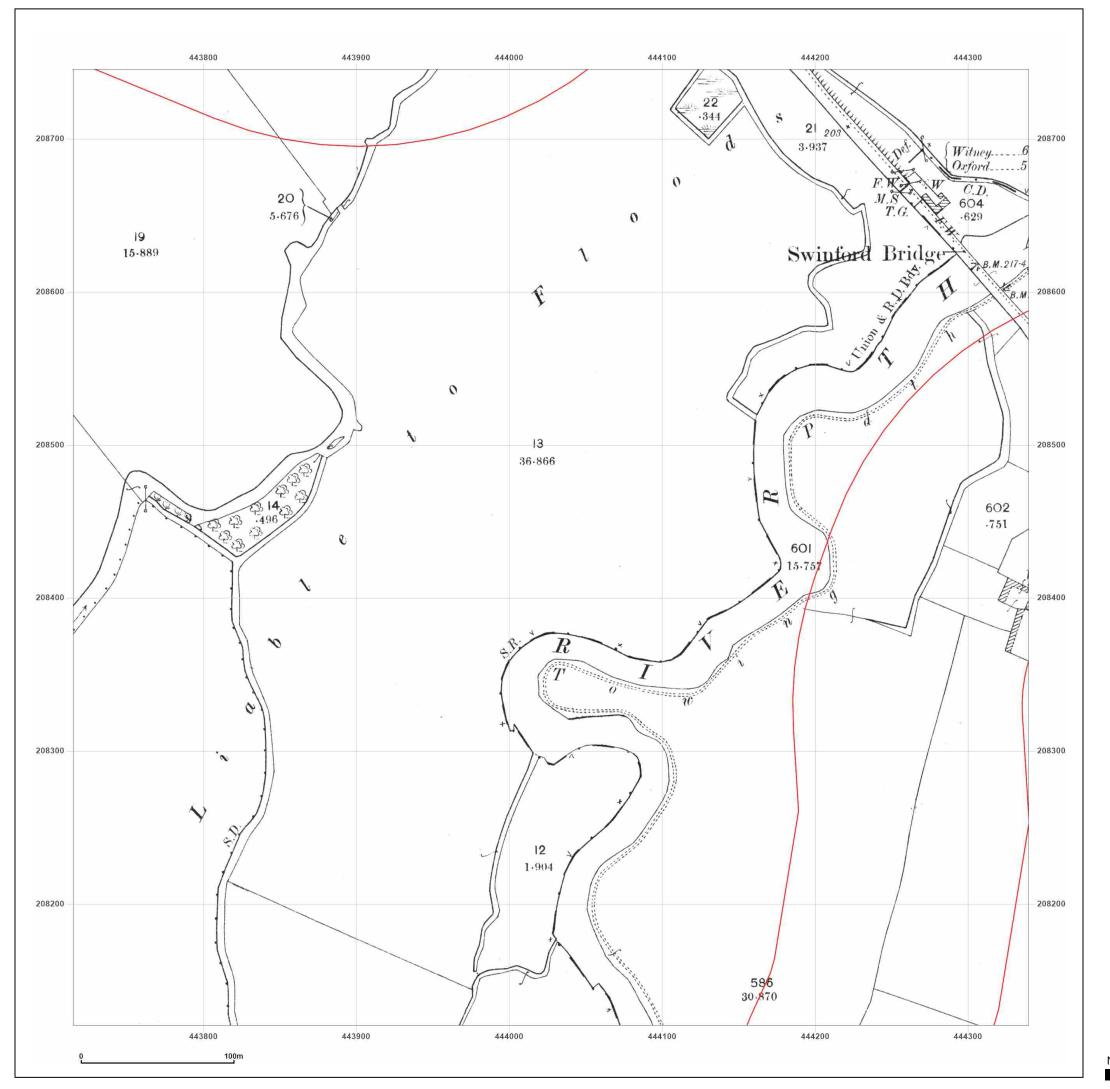
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Map Name:	County Series	N
Map date:	1876	W E
Scale:	1:2,500	W E
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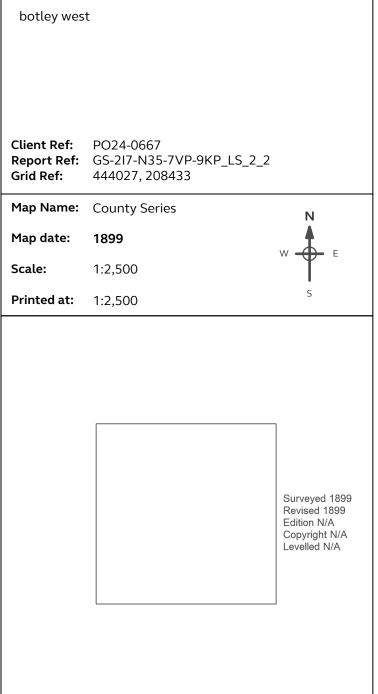
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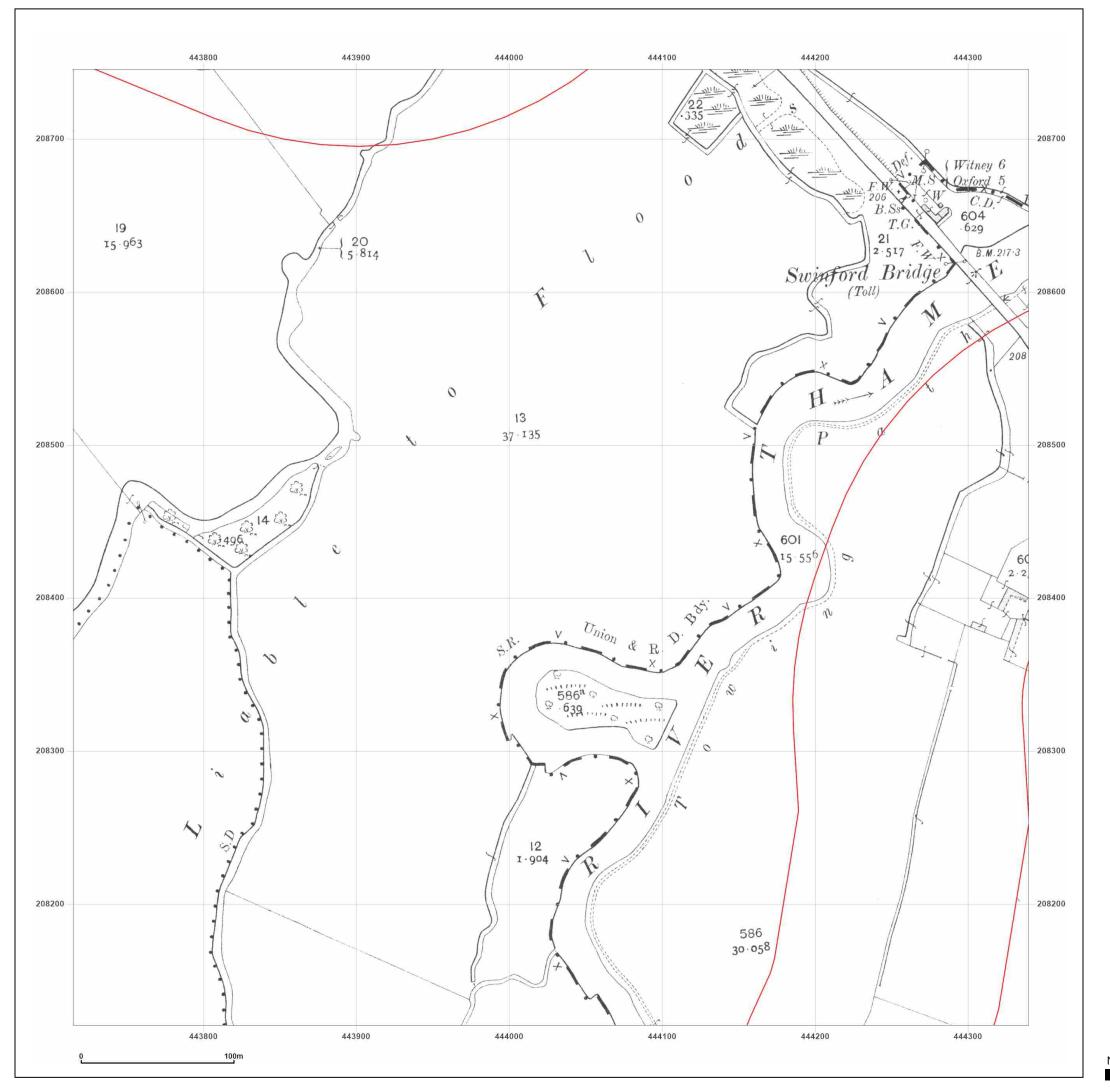




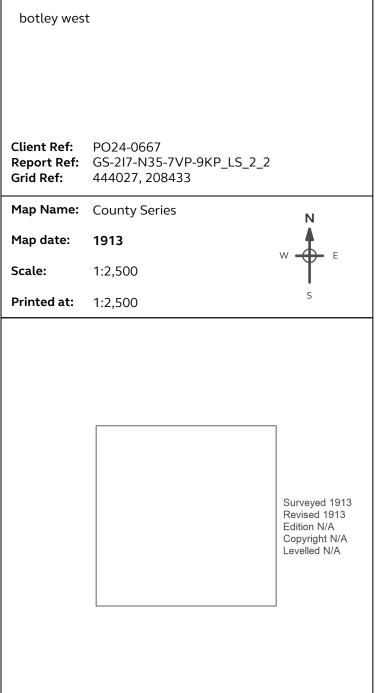
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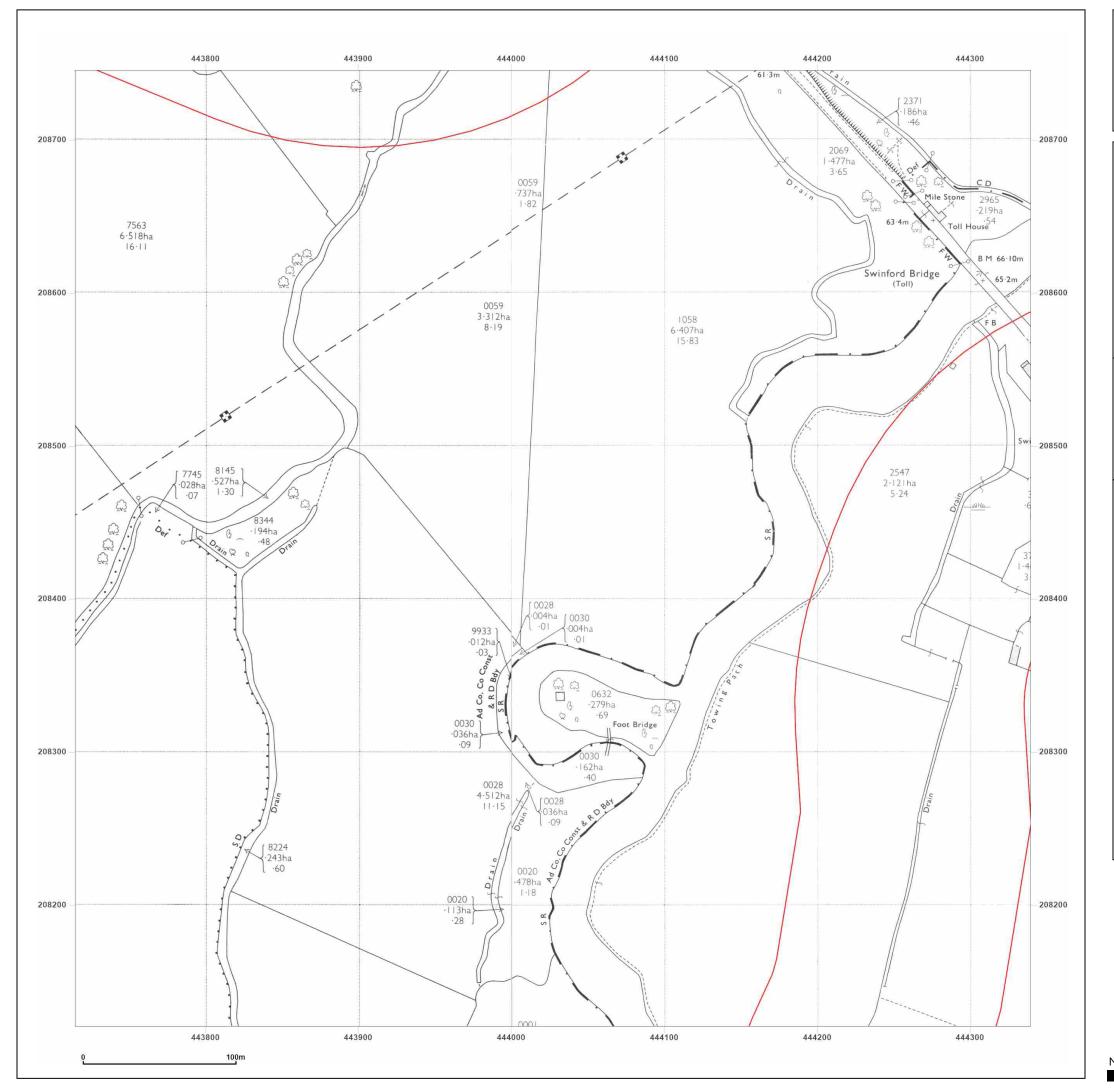




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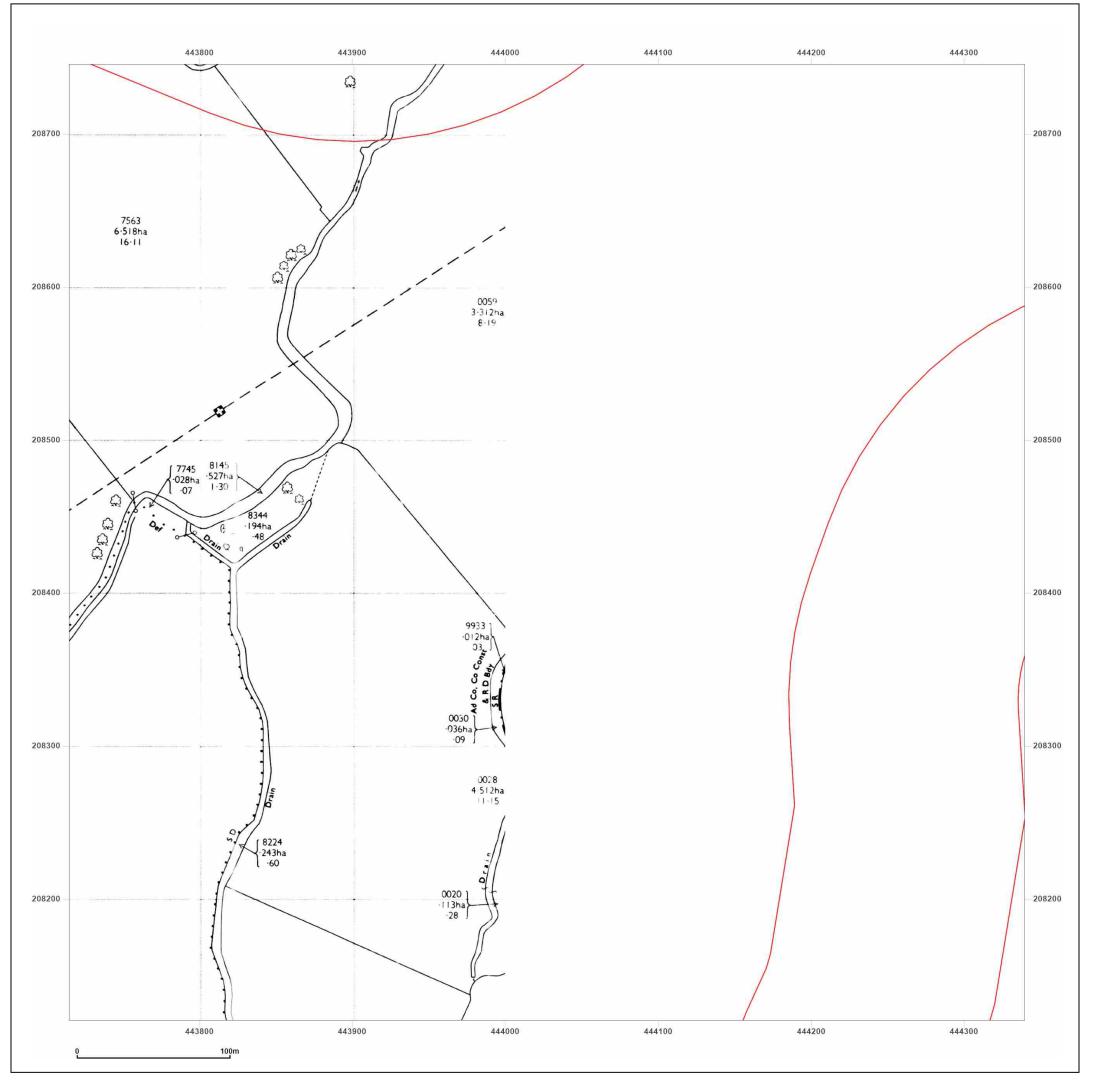


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Map date:	1970-1971	W F
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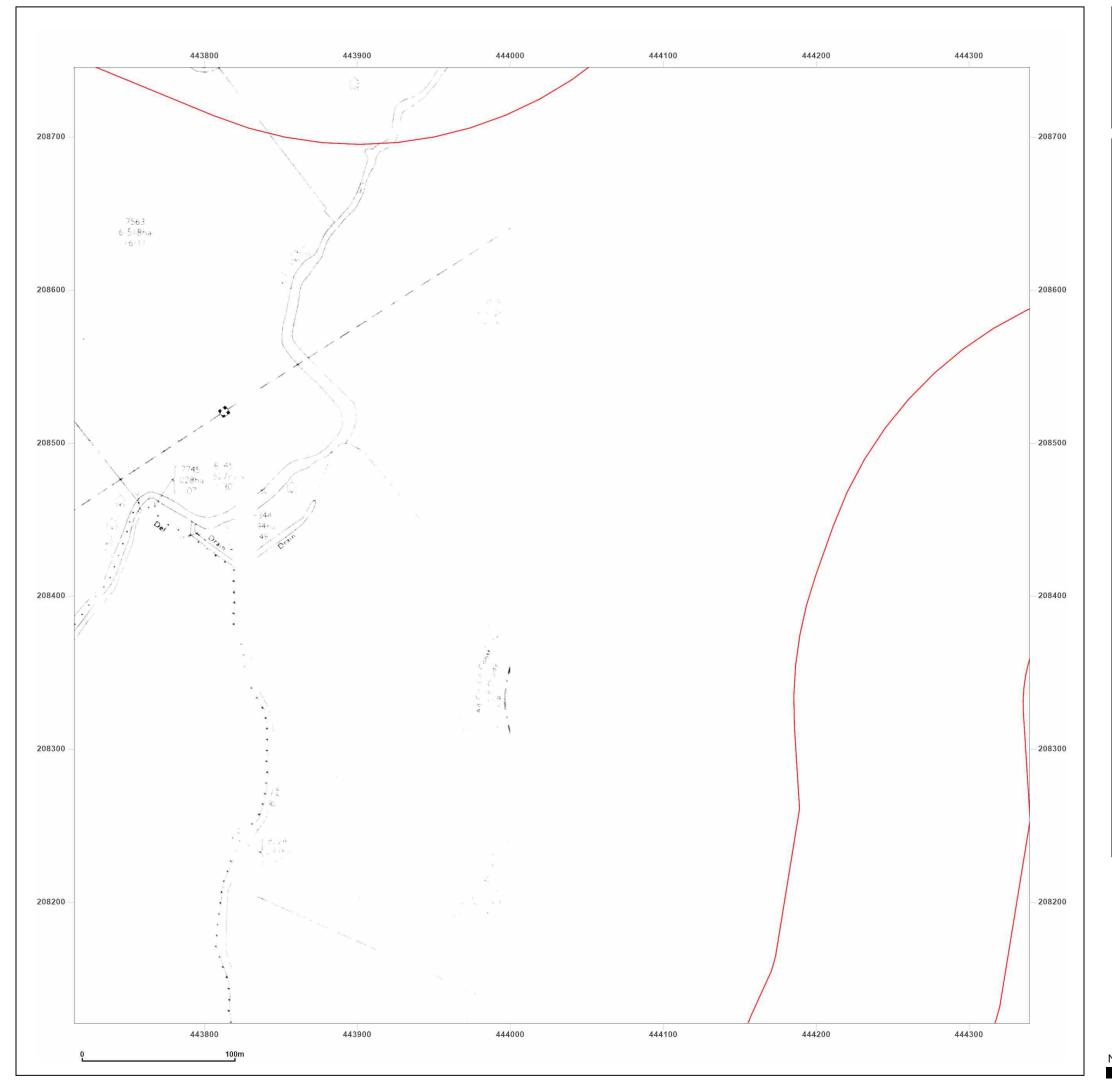


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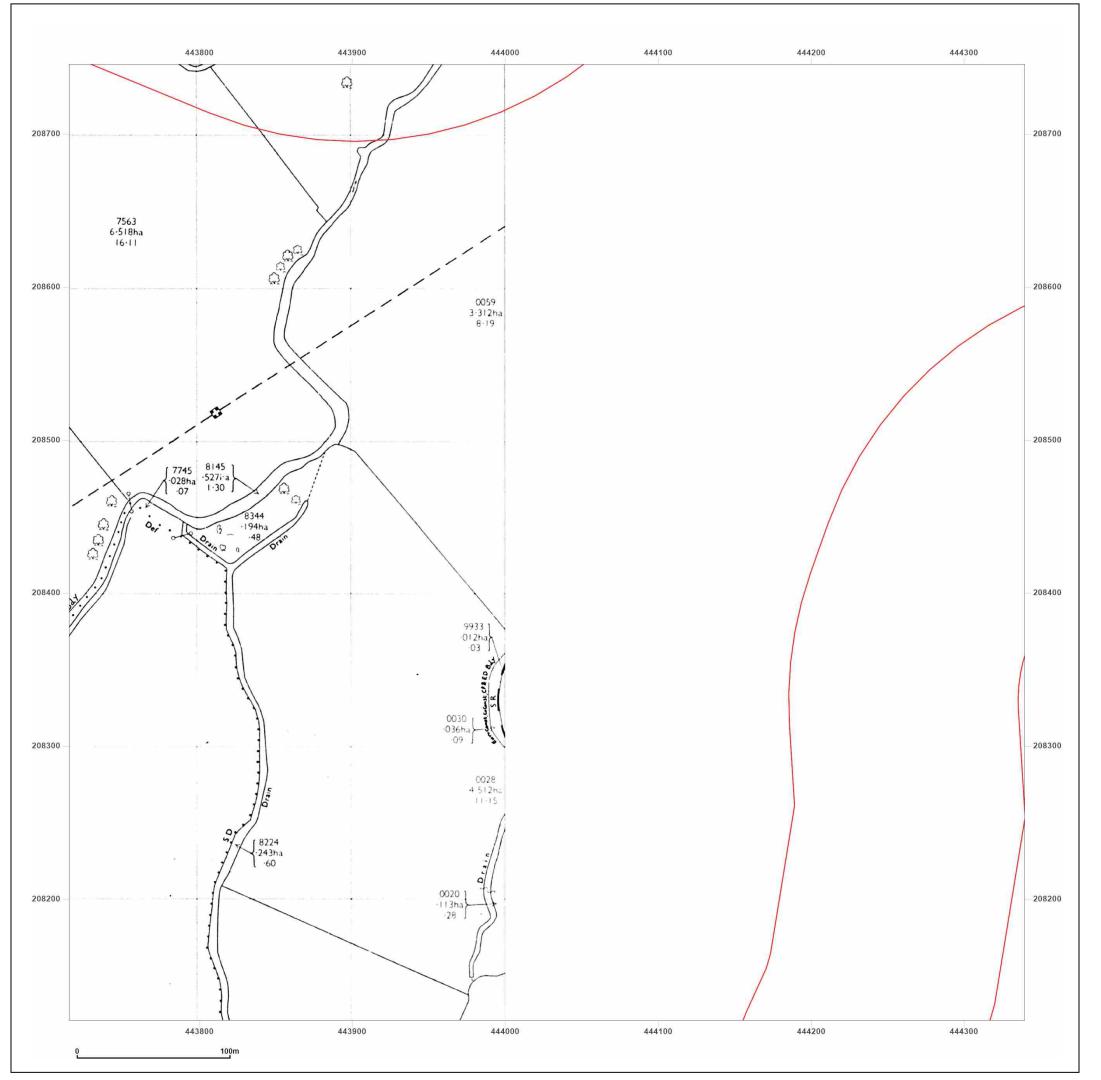


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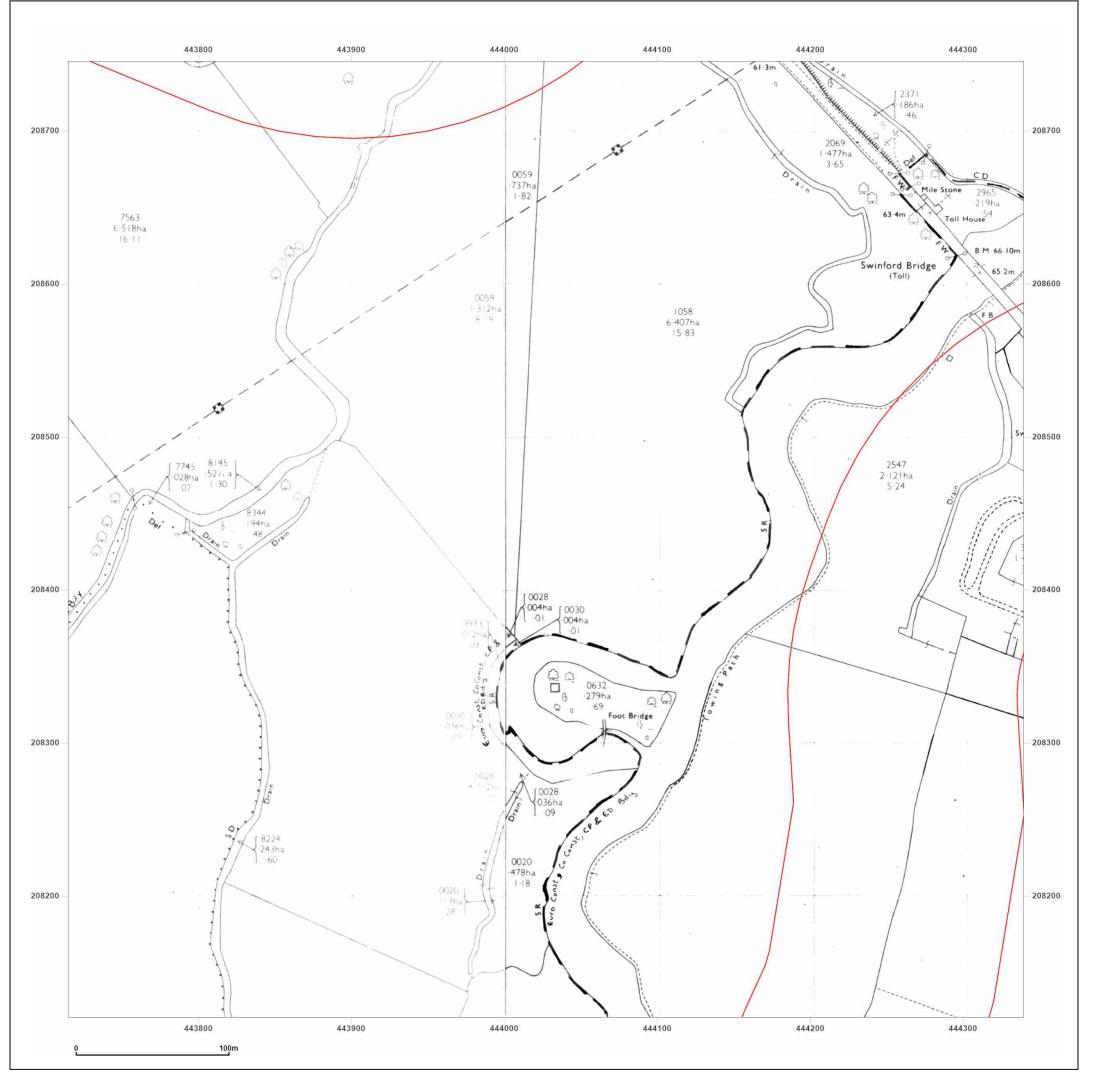
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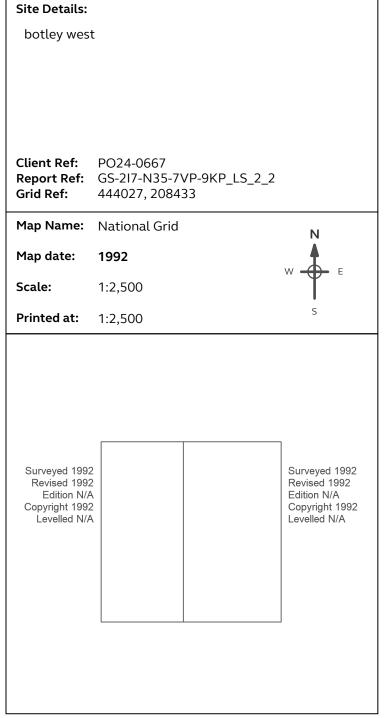
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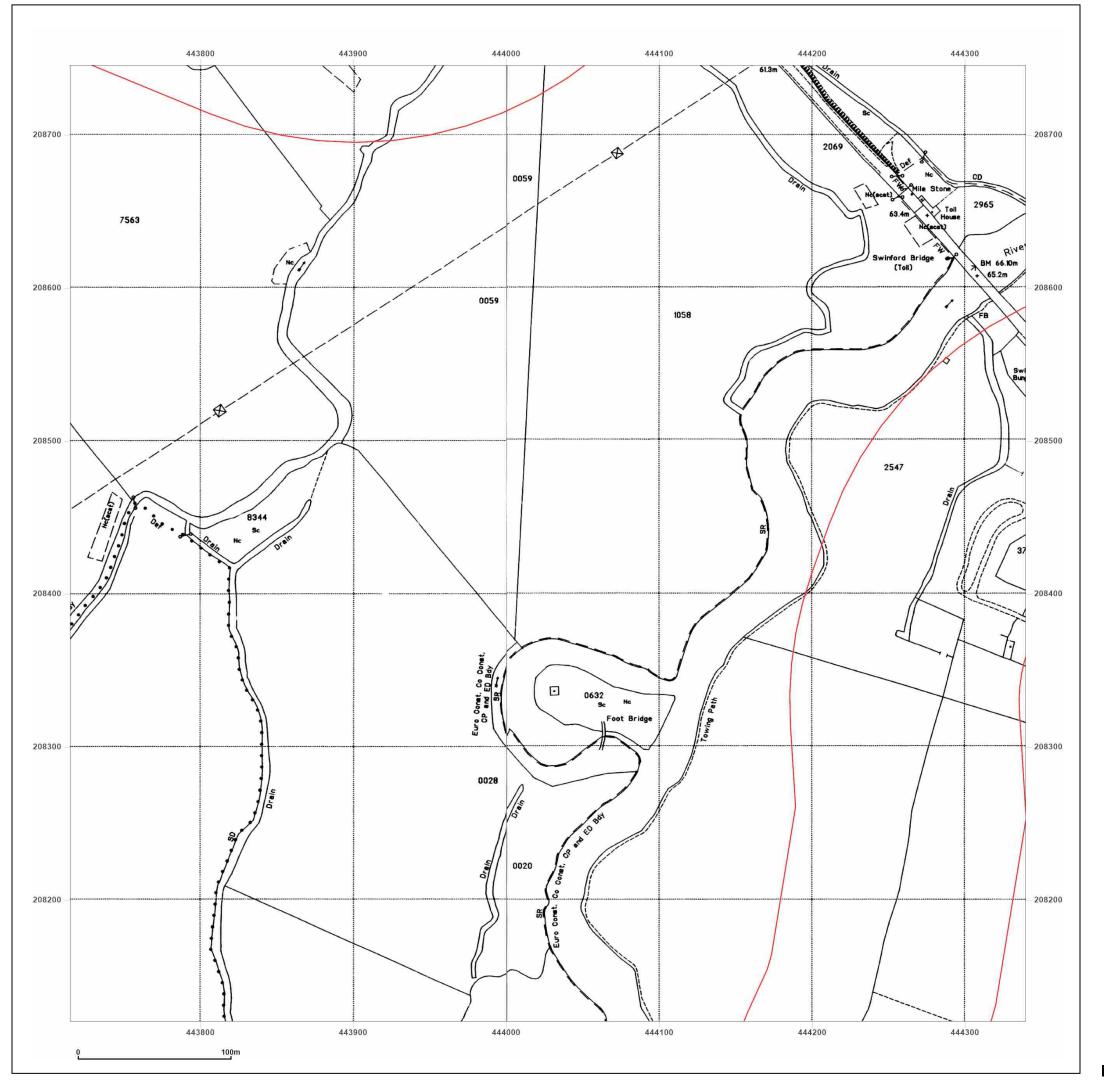






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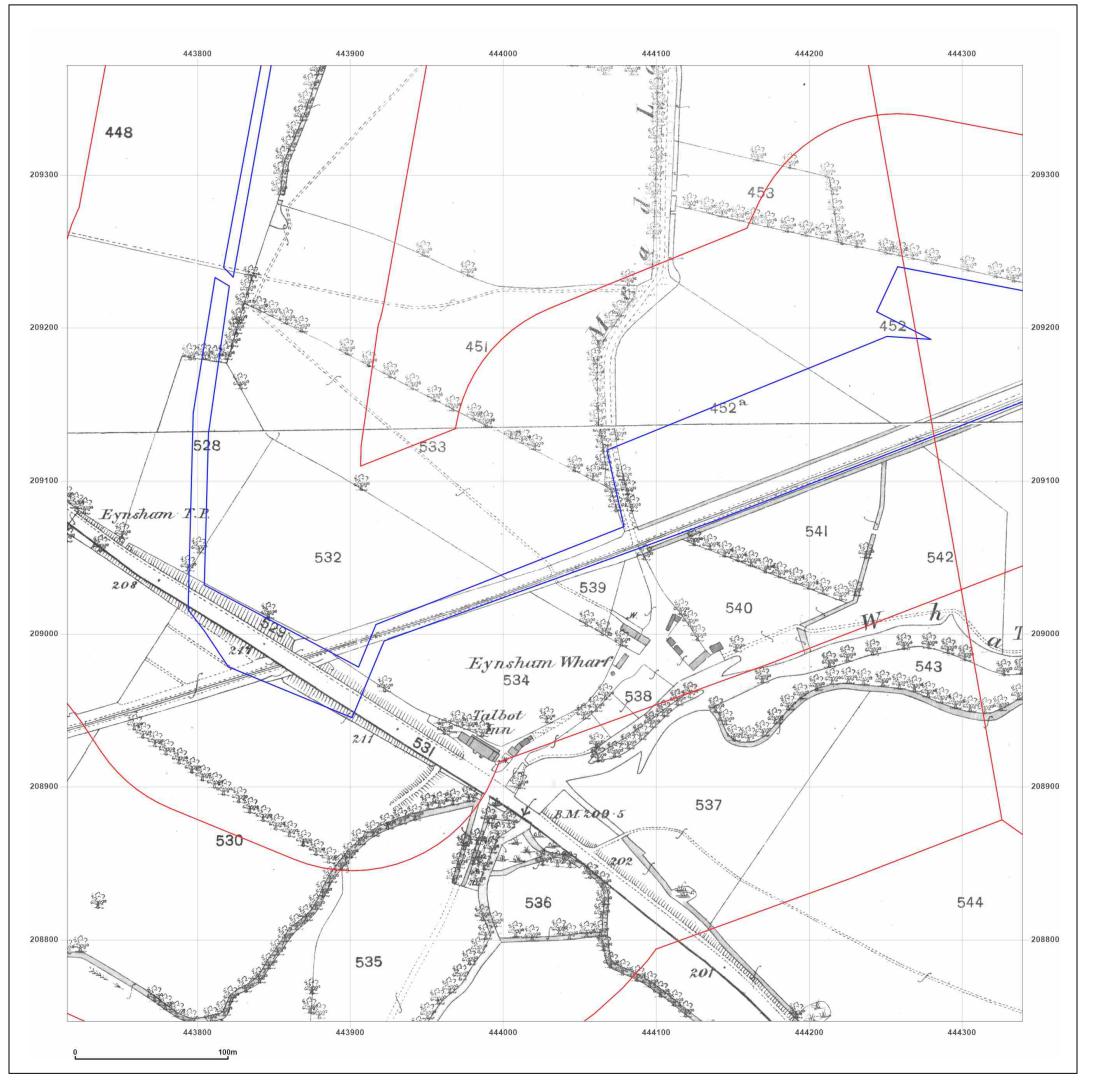
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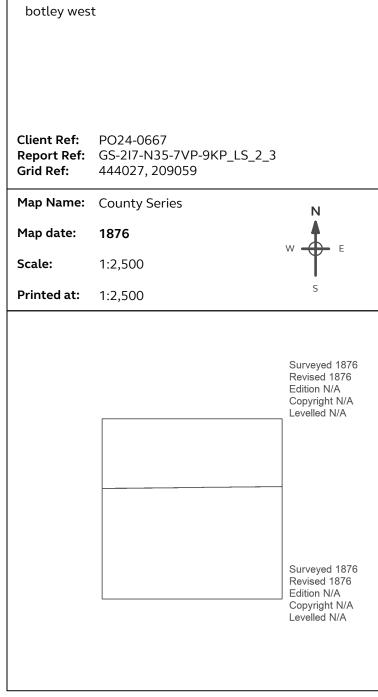
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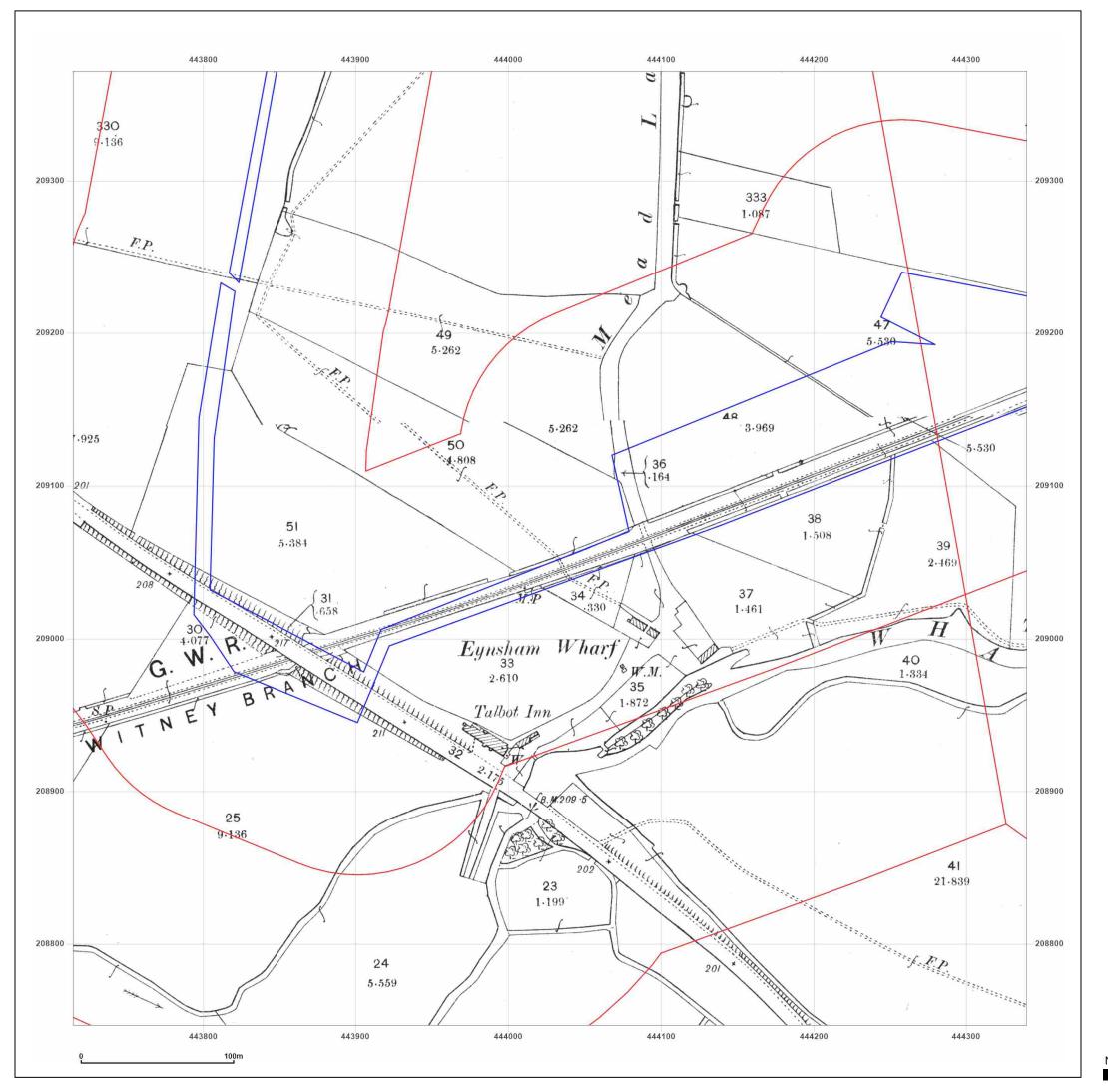




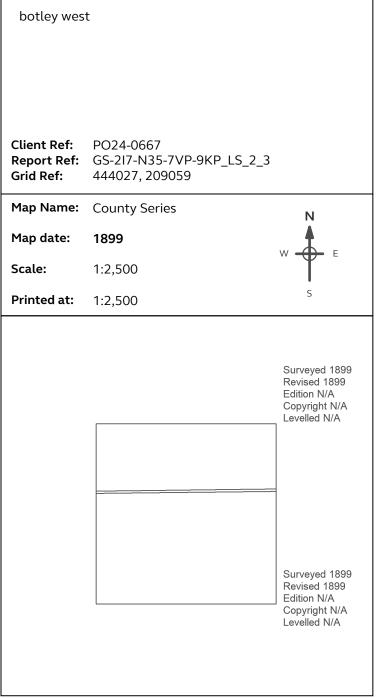
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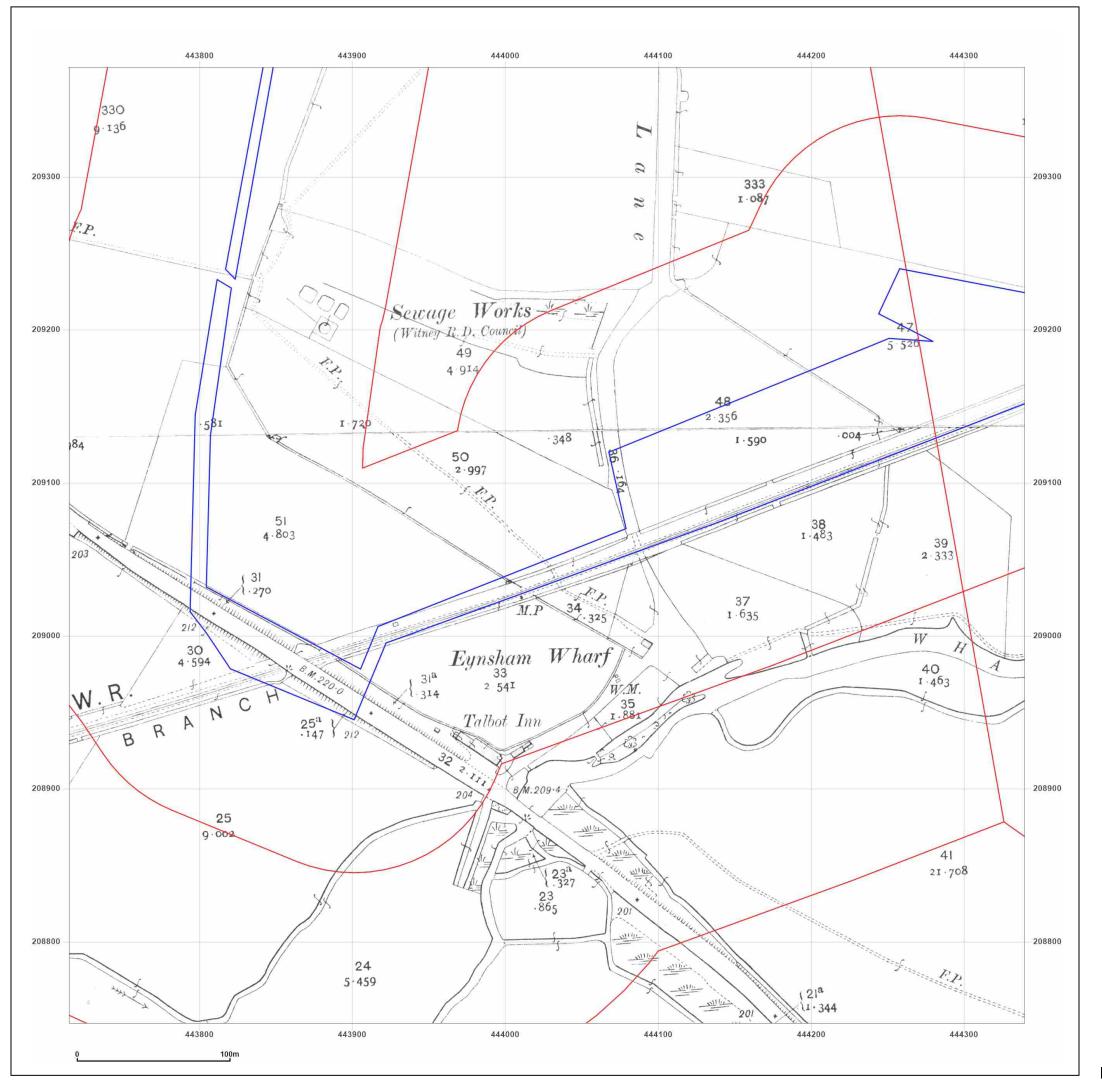




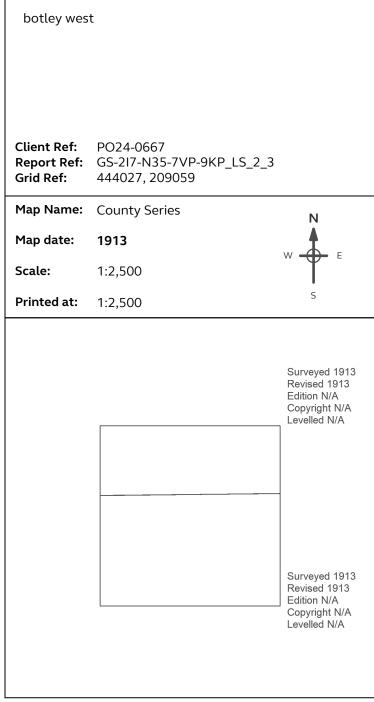
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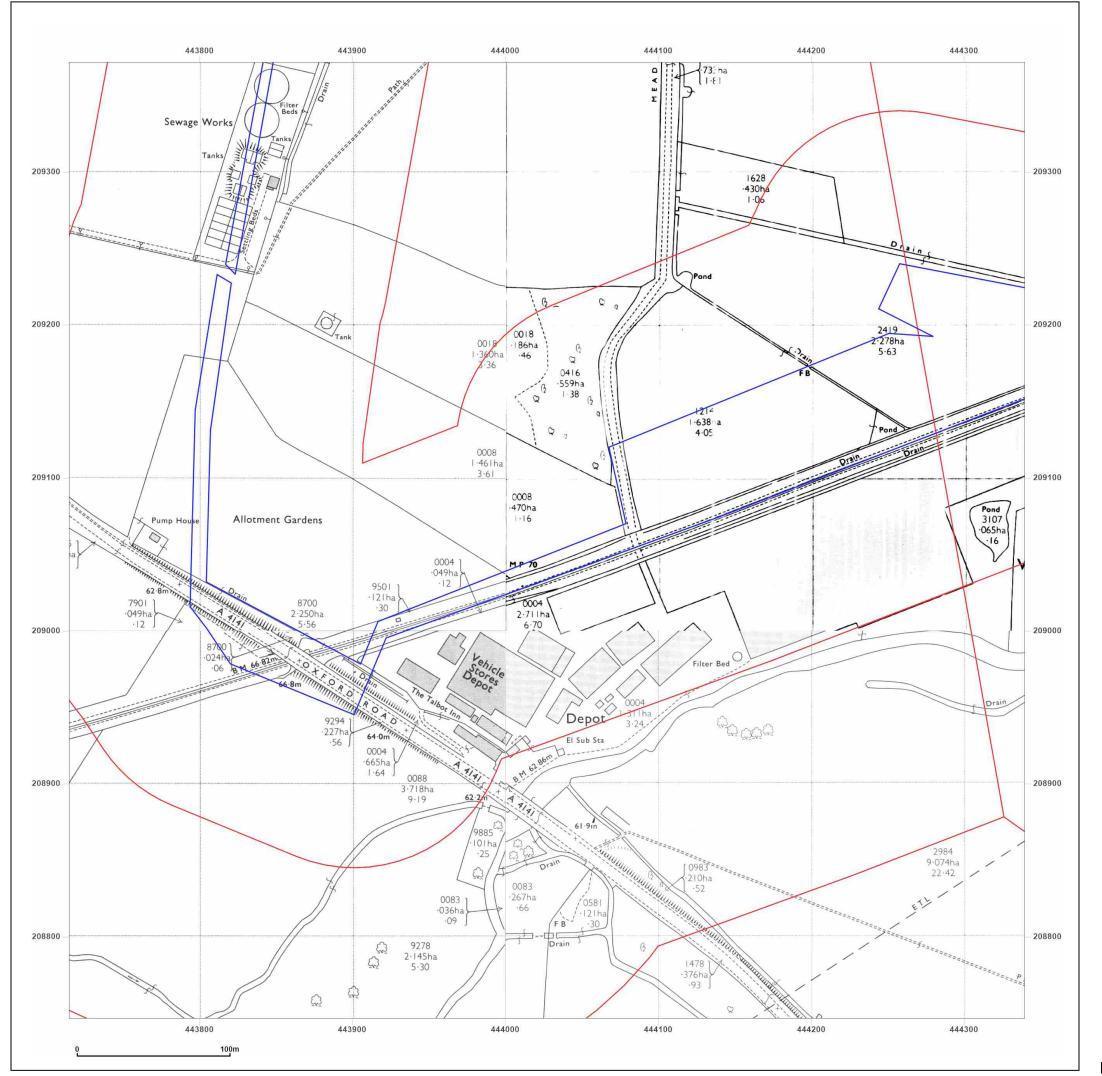




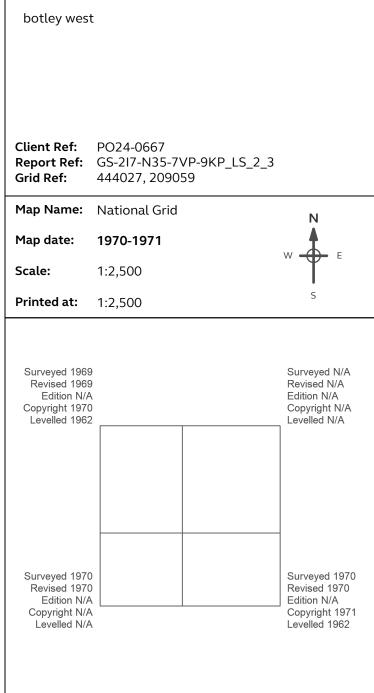
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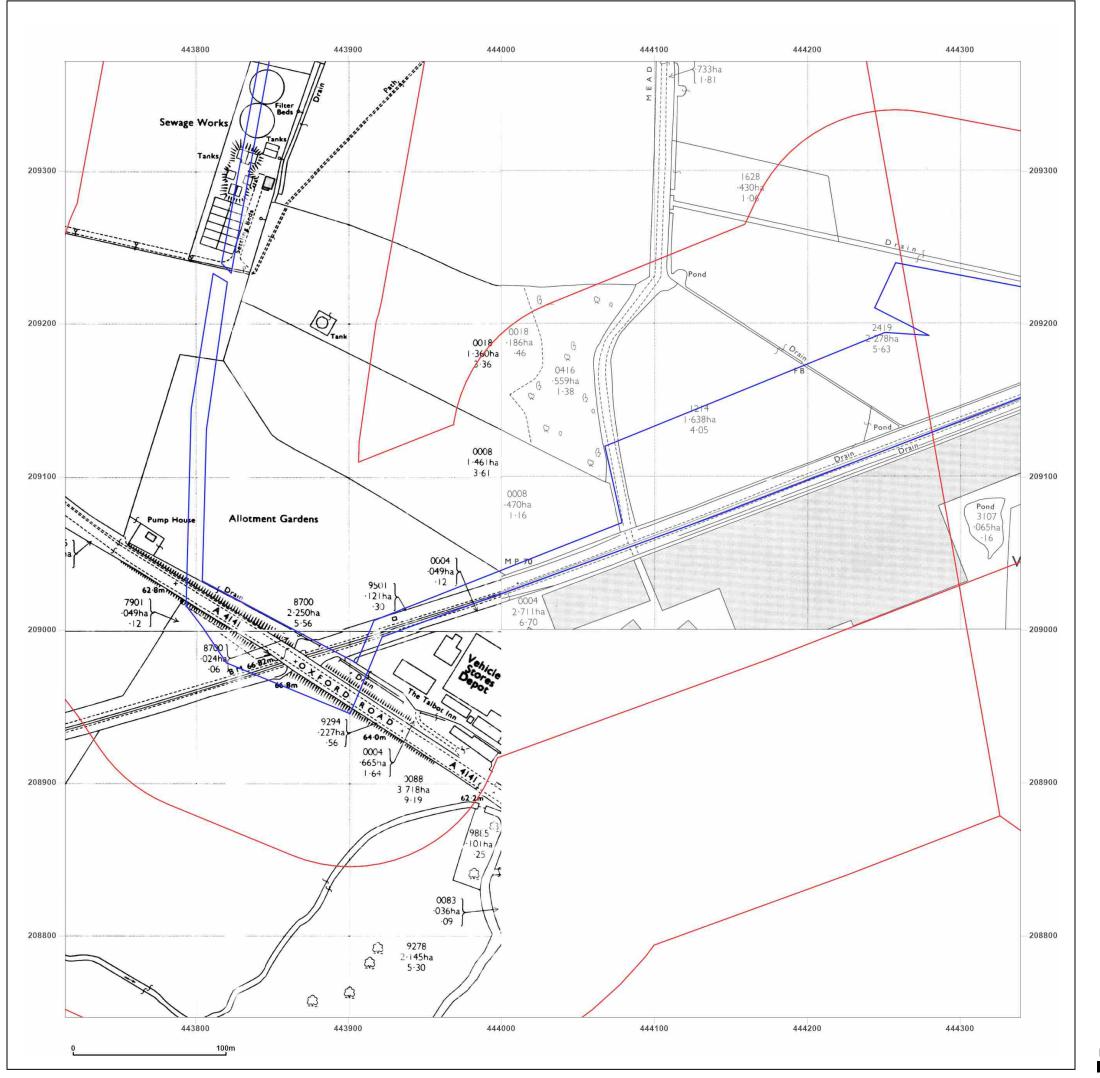




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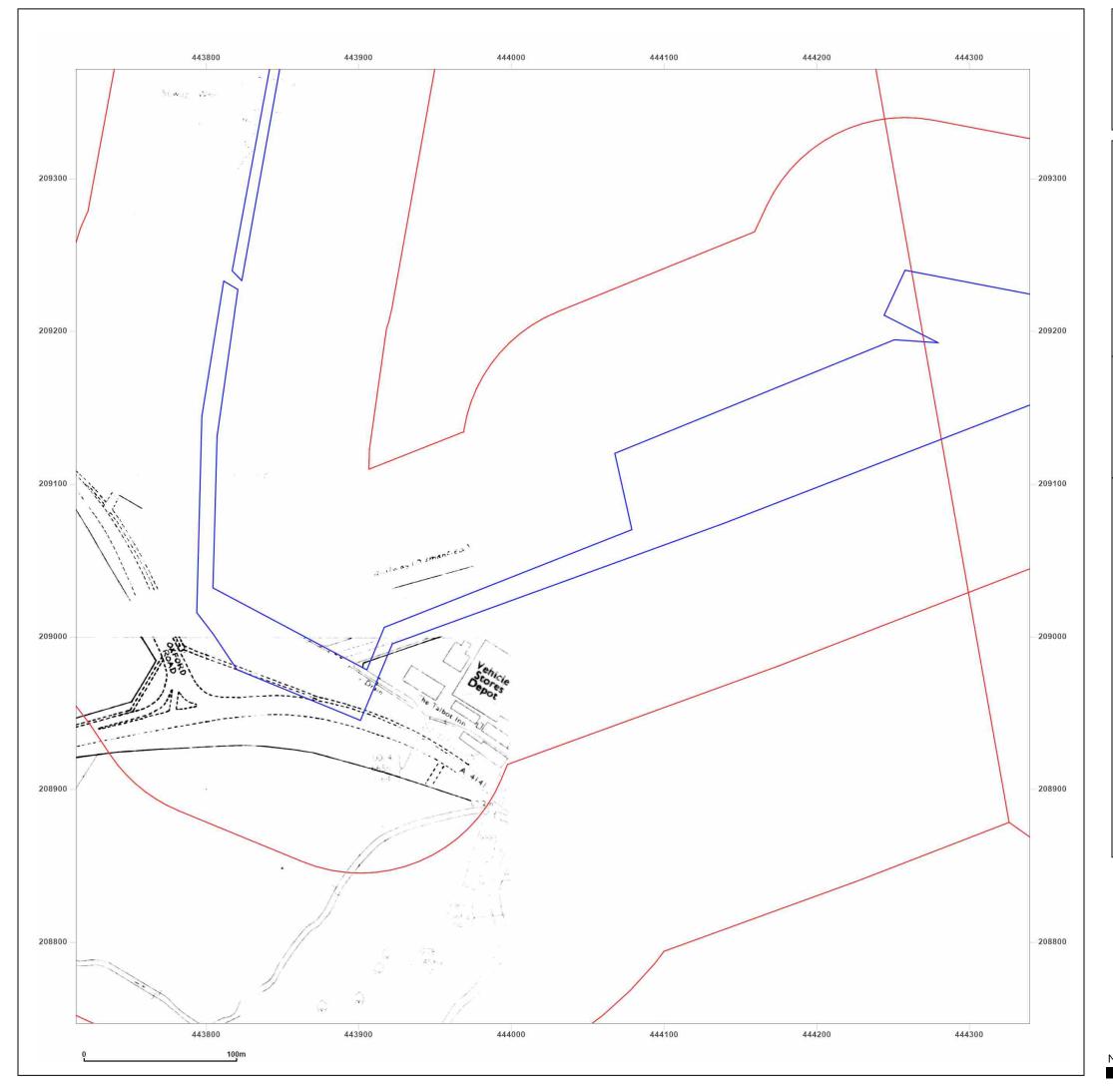


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Map Name:	National Grid	N
Map date:	1970-1971	W F
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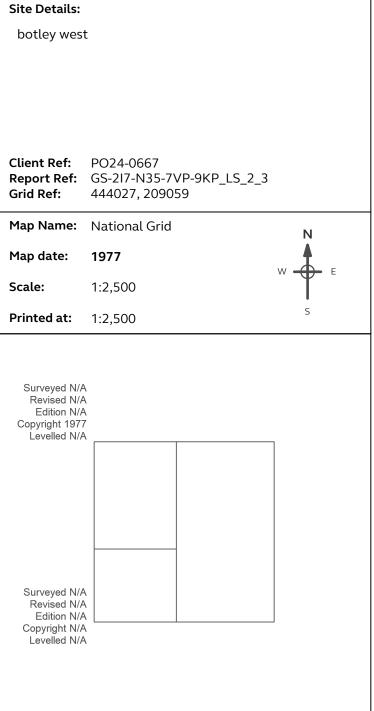


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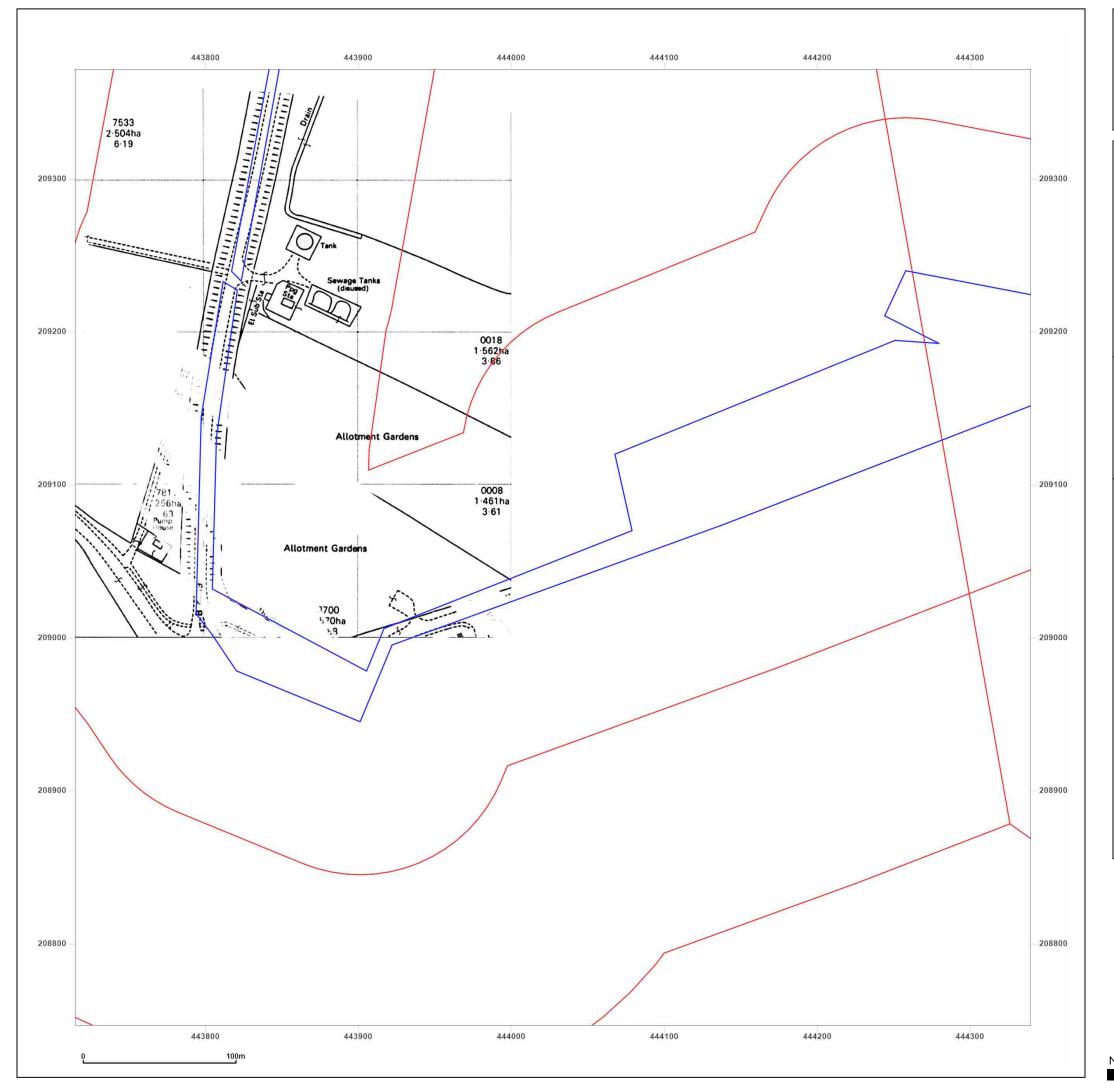




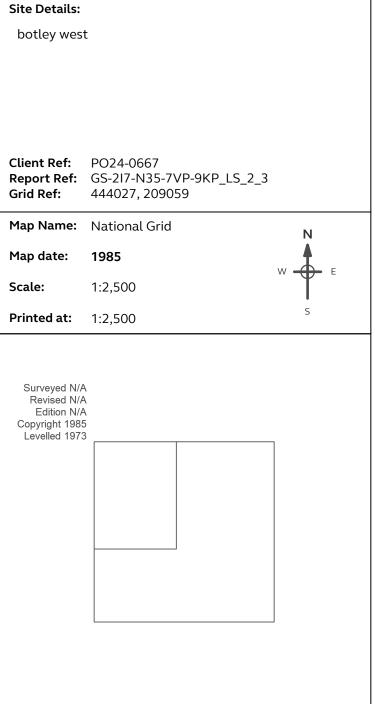


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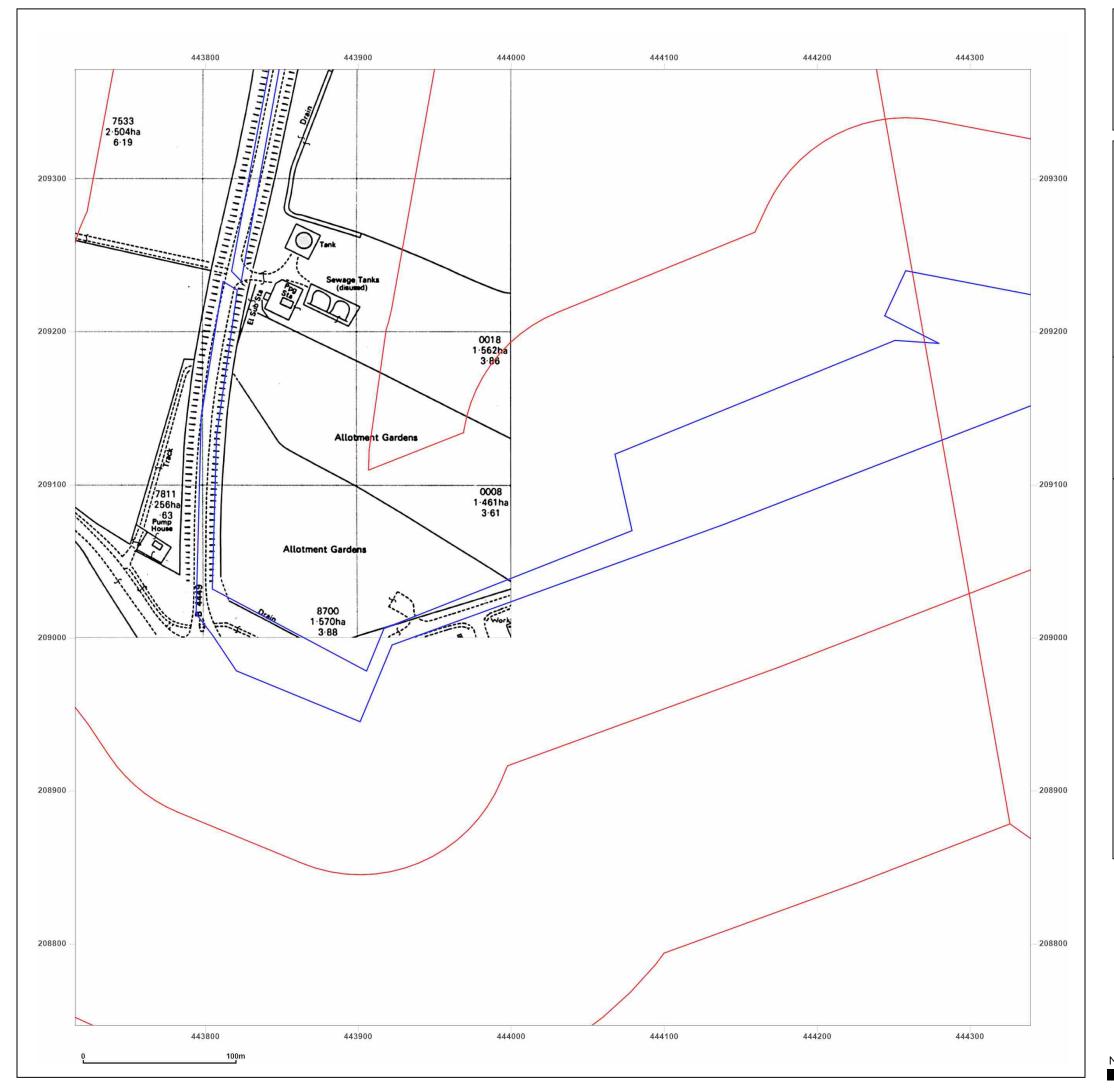






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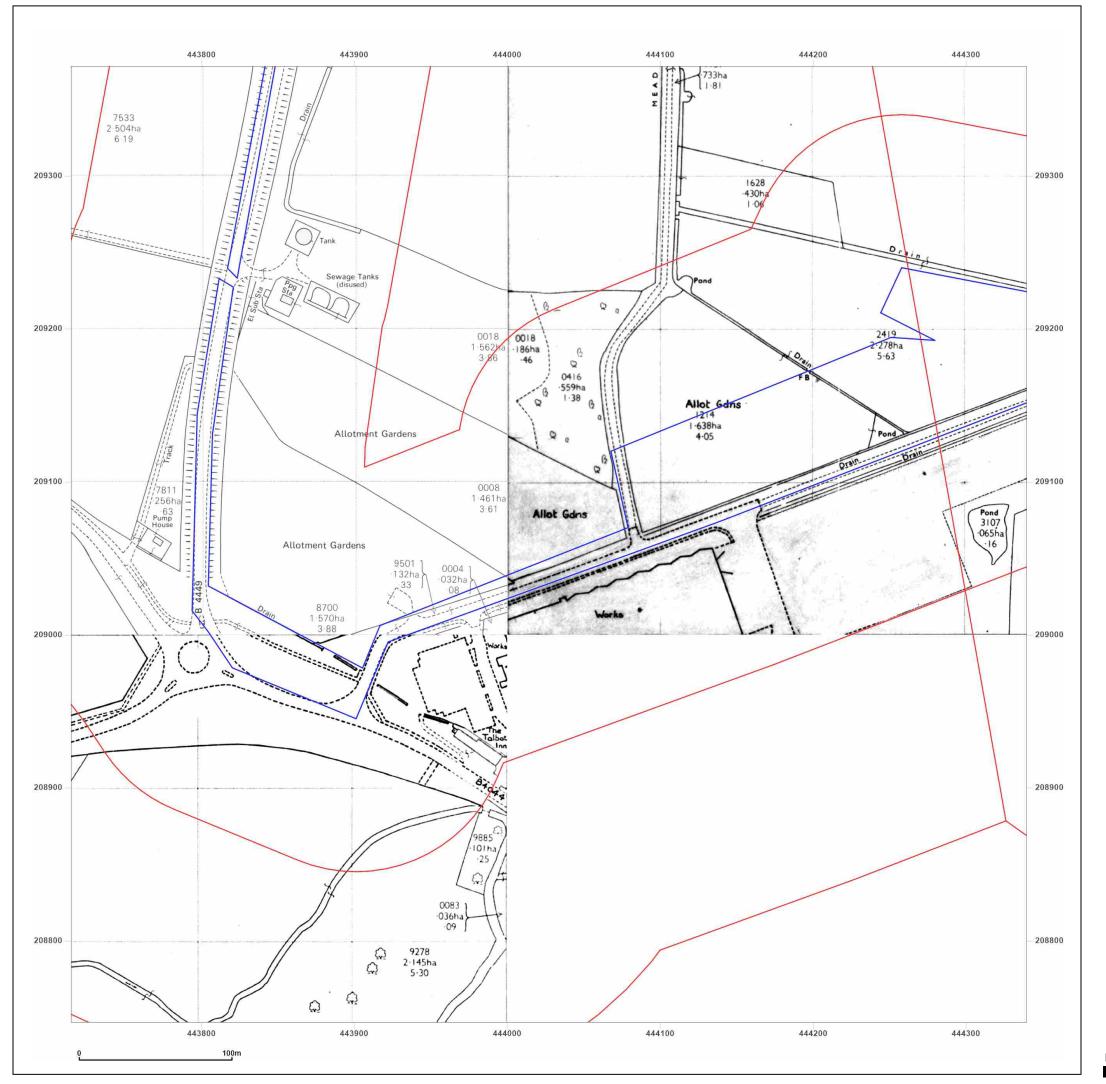


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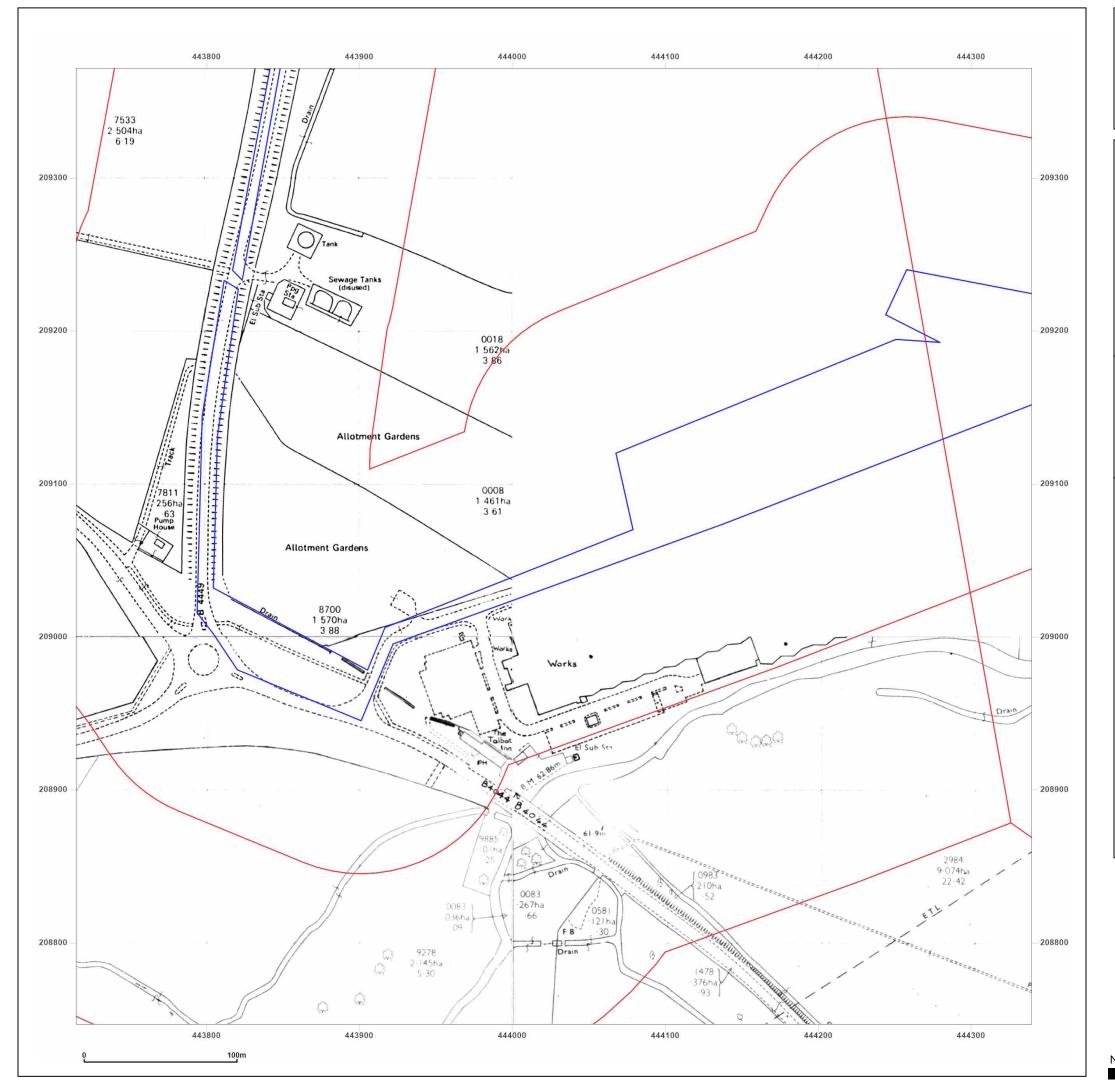


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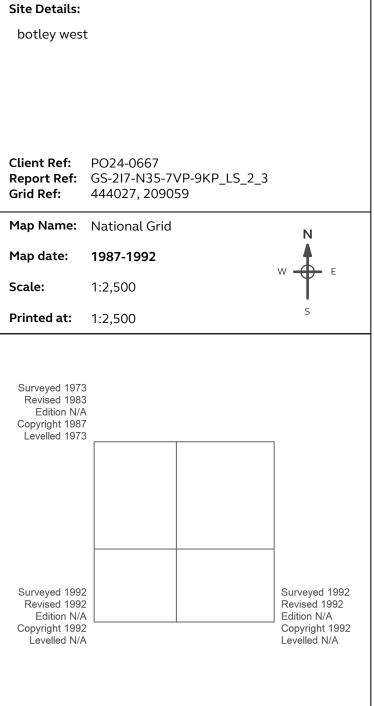


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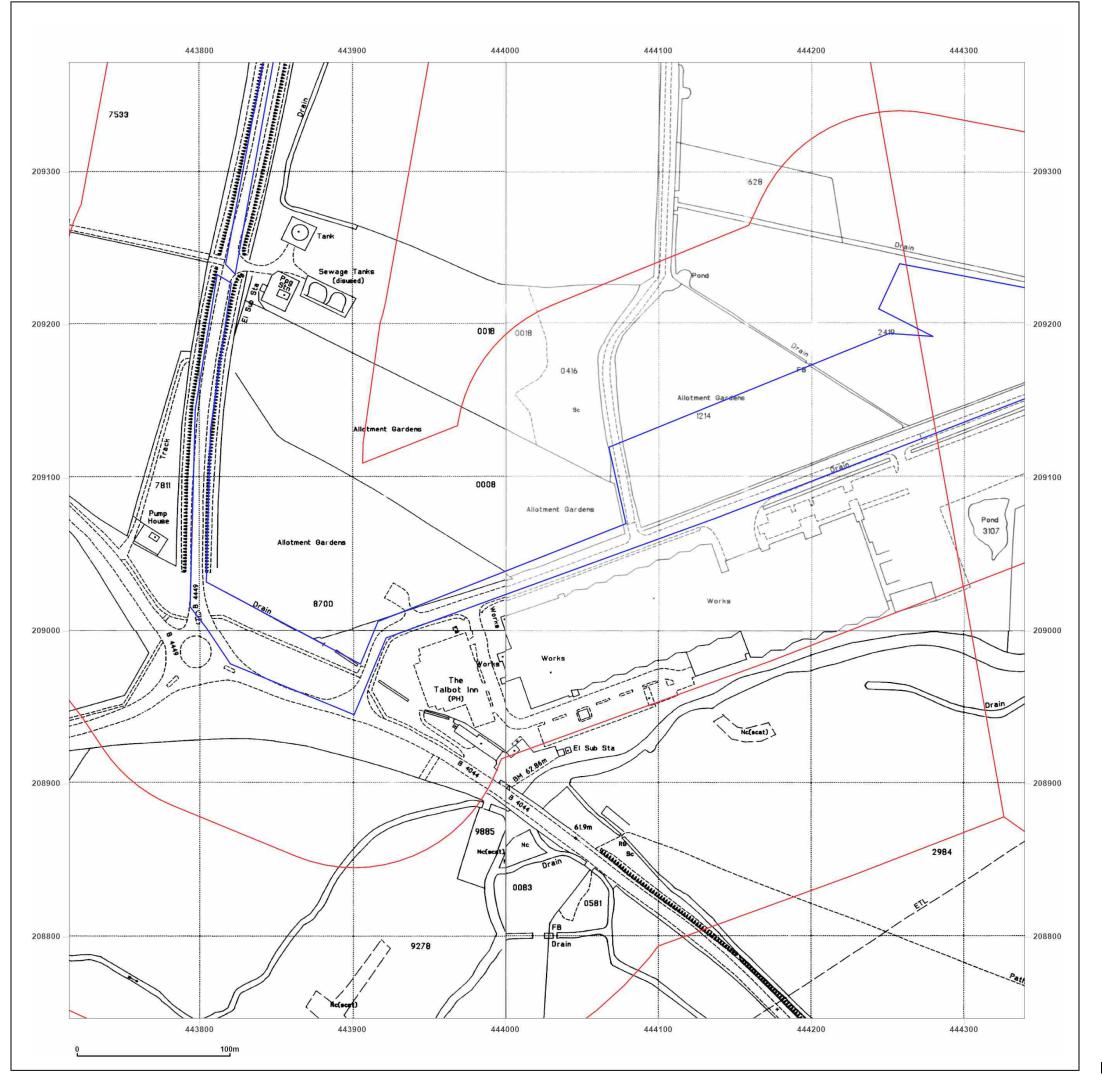






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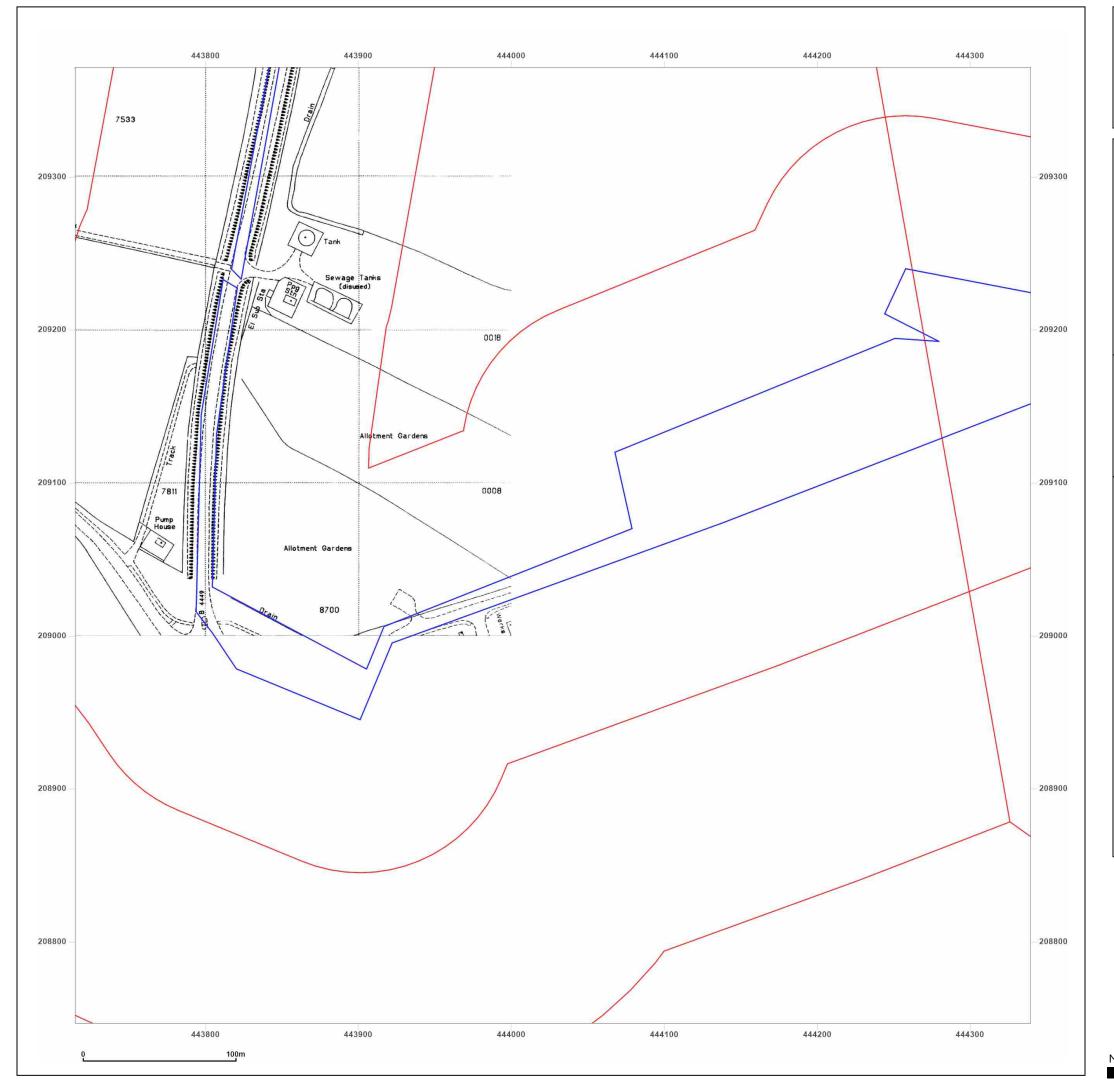


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Map Name:	National Grid	N
Map date:	1994	W F
Scale:	1:2,500	" Ψ -
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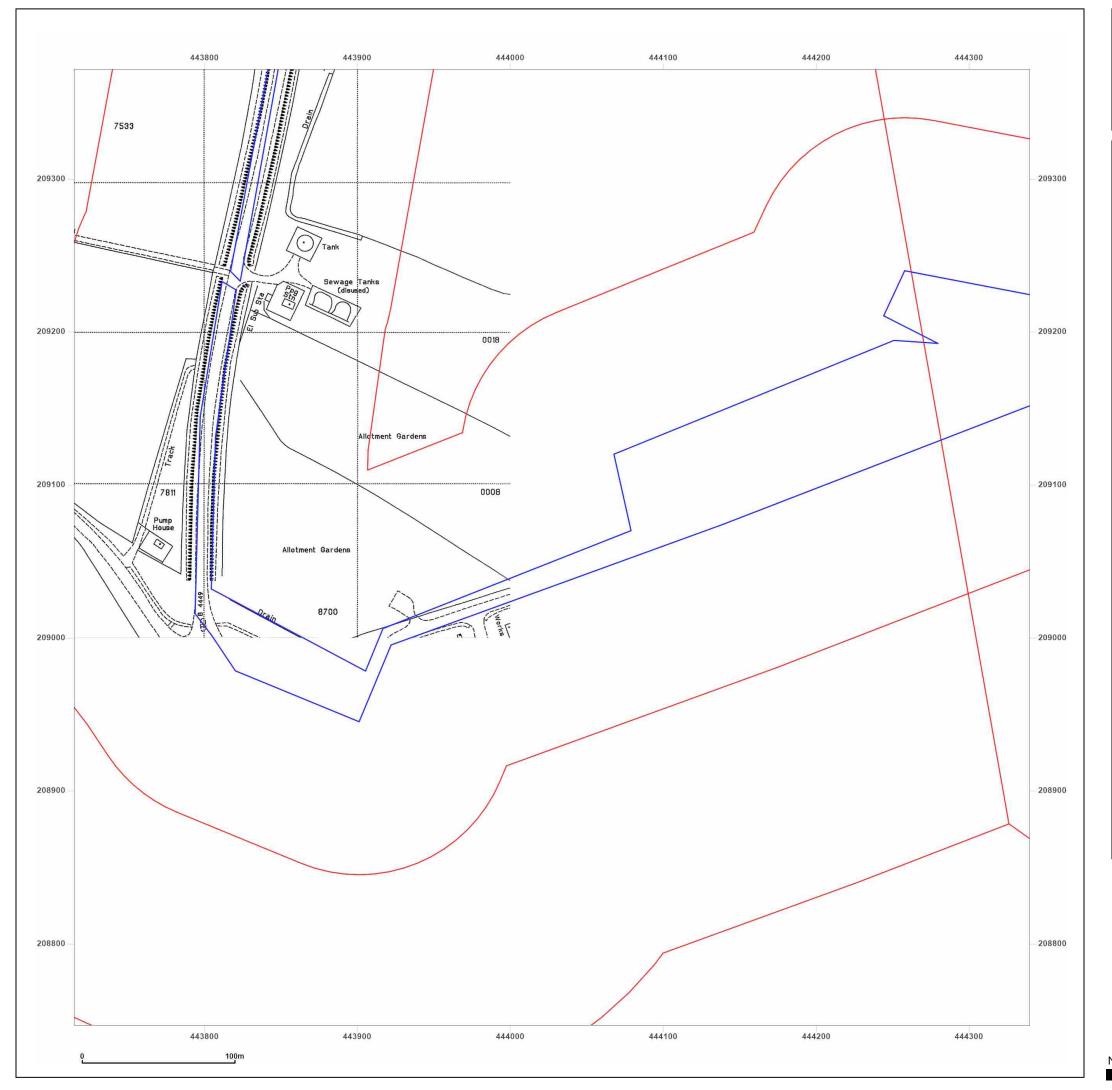


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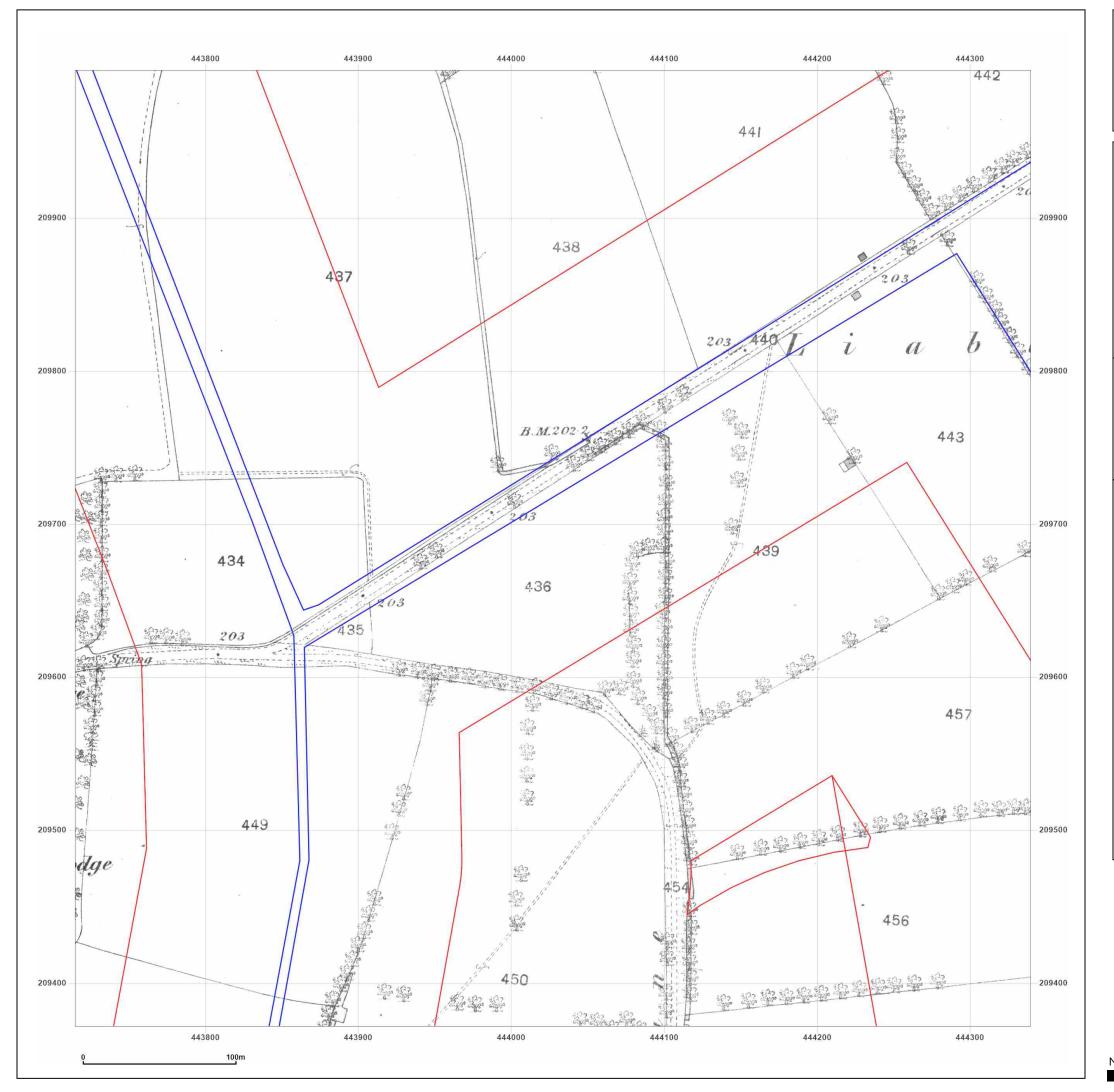


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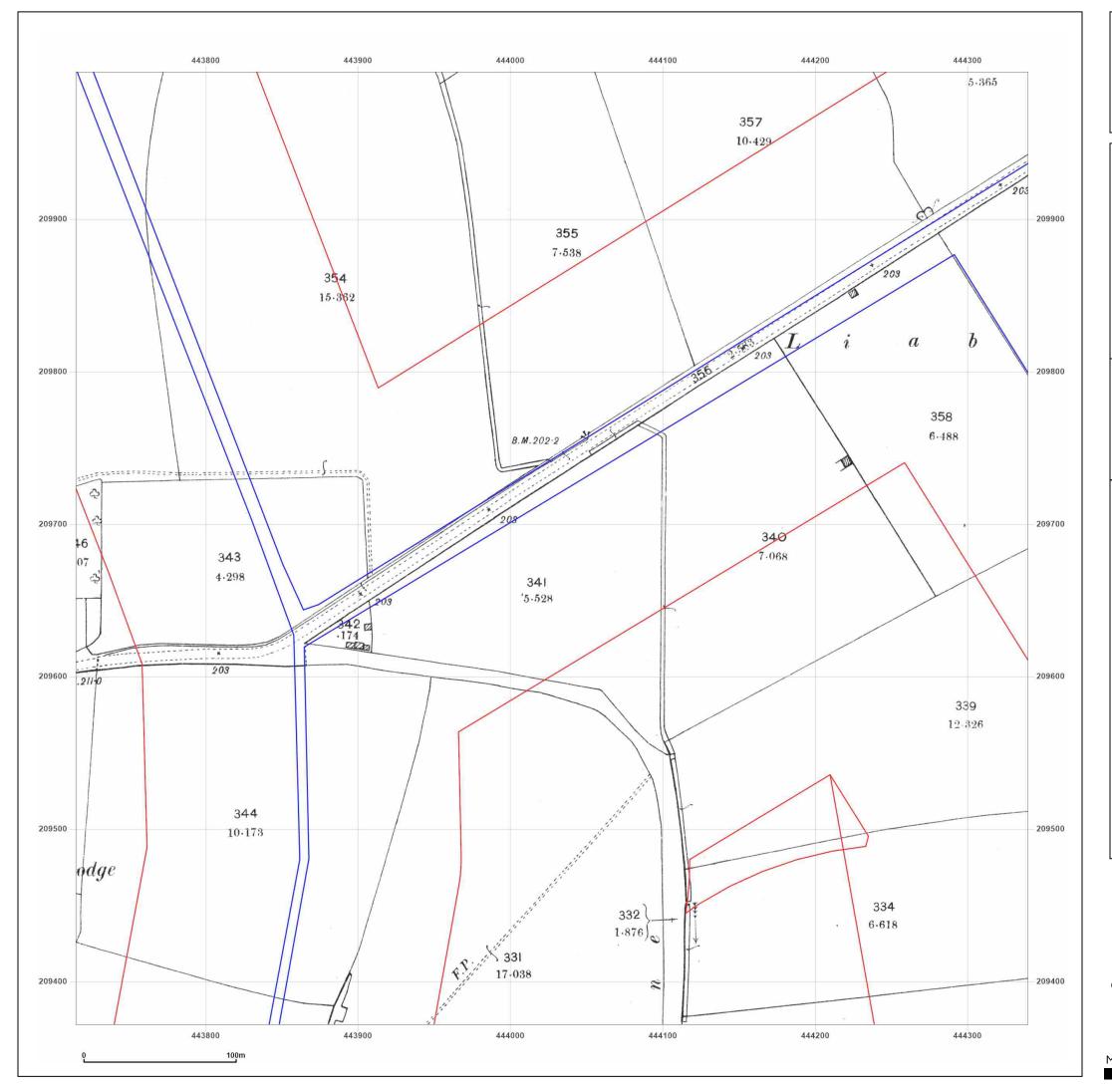
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Map date:	1876	W E
Scale:	1:2,500	T -
Printed at:	1:2,500	S
		Surveyed 1876 Revised 1876 Edition N/A Copyright N/A
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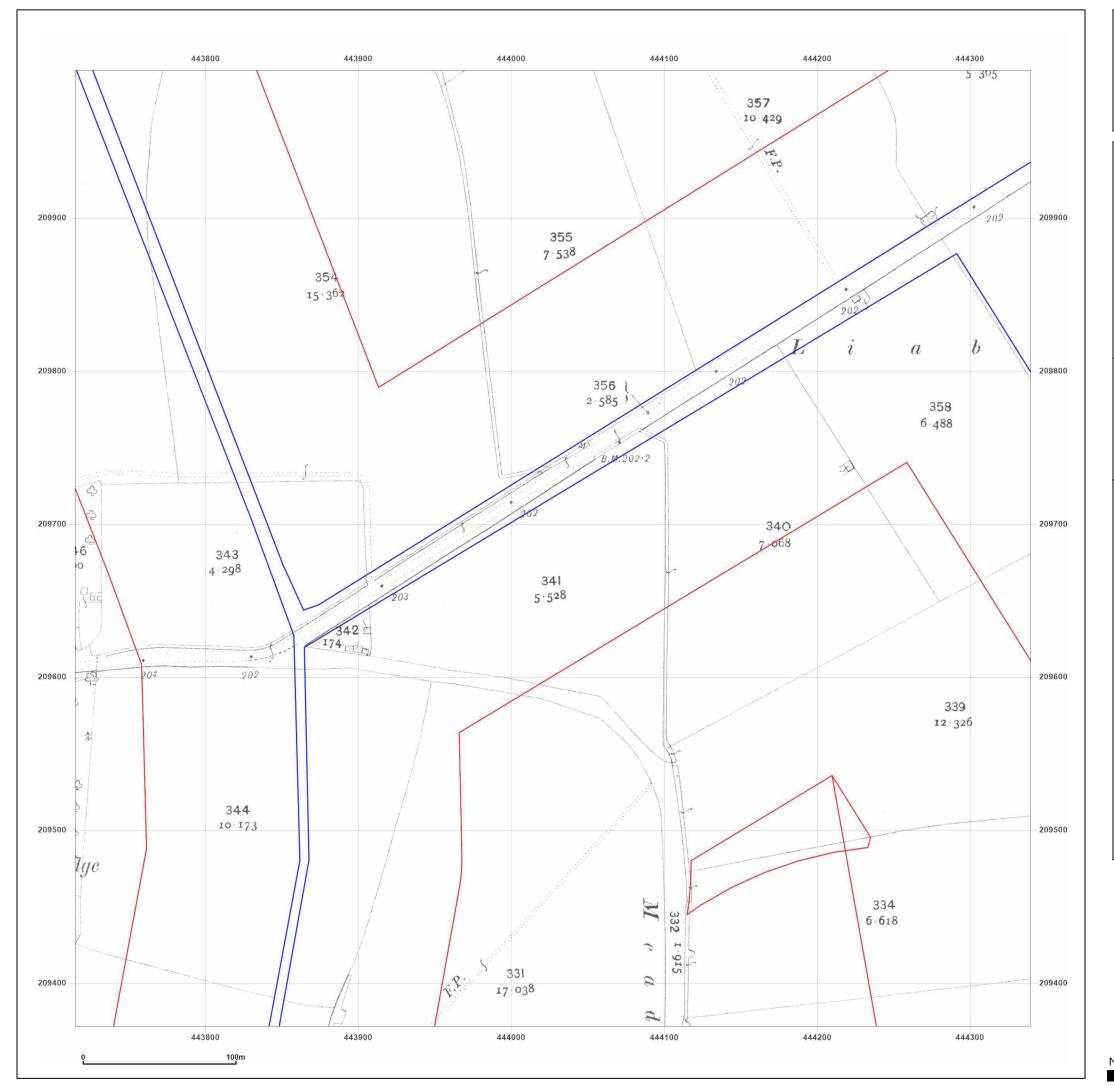


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Map date:	1899	W E
Scale:	1:2,500	" T
Printed at:	1:2,500	S
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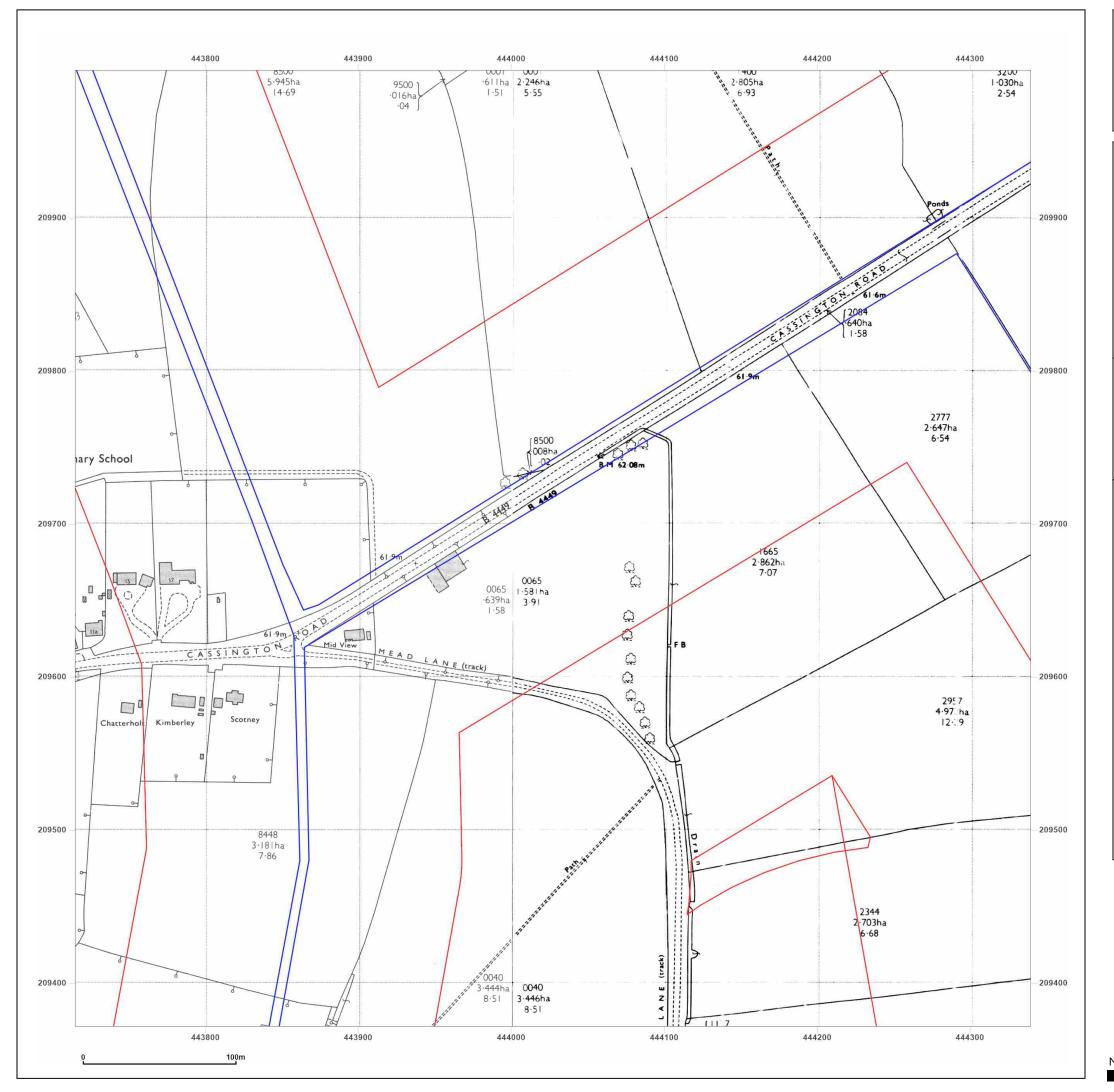
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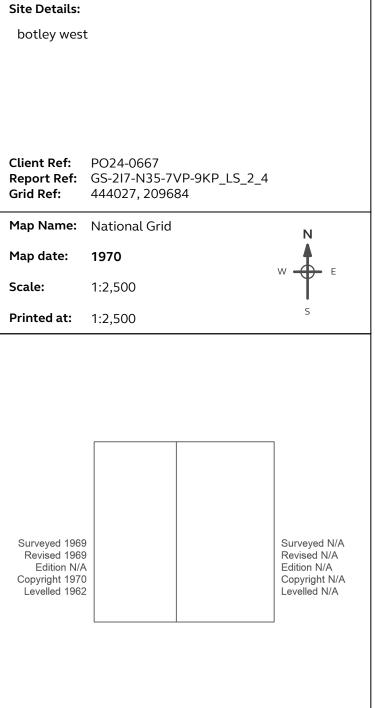
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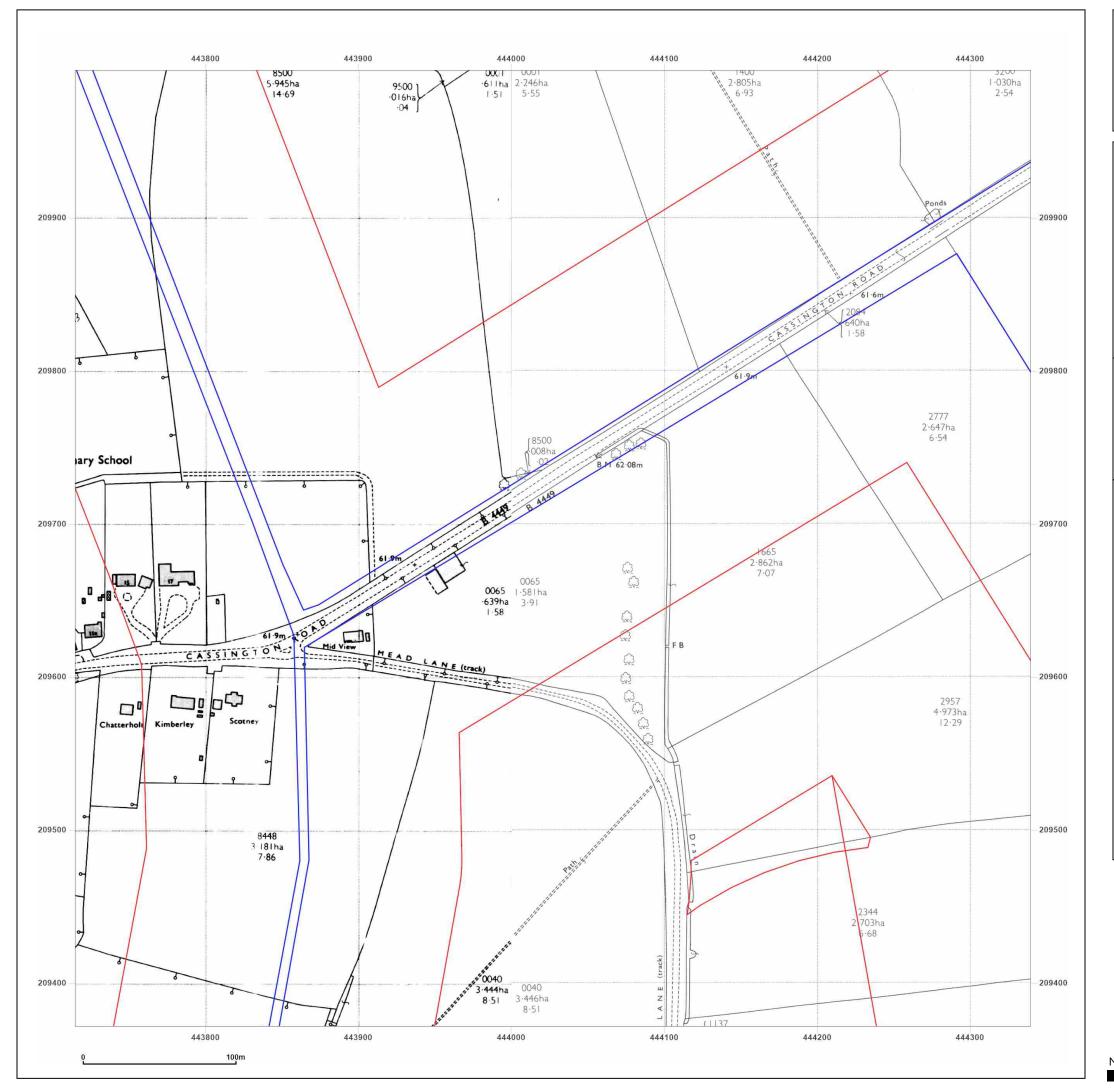




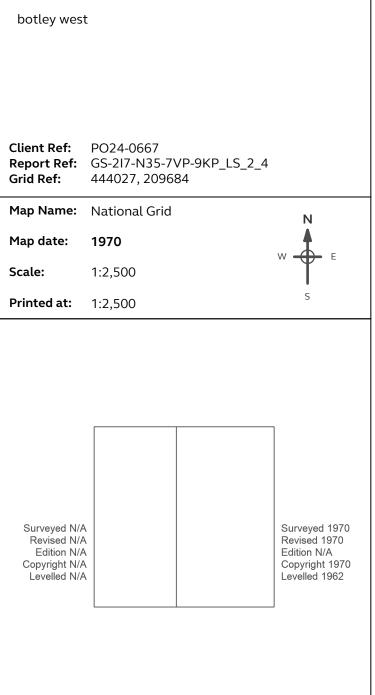


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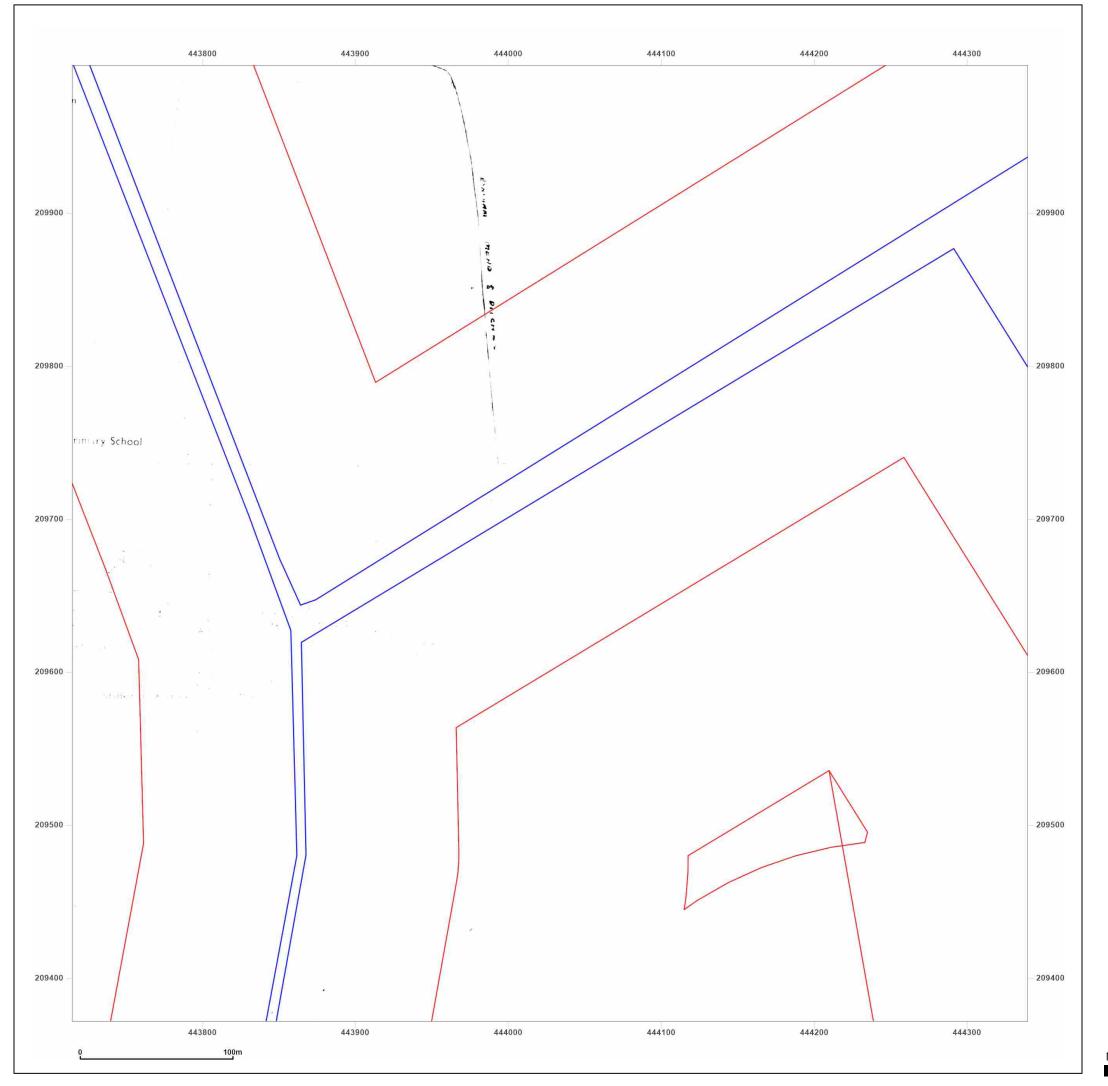




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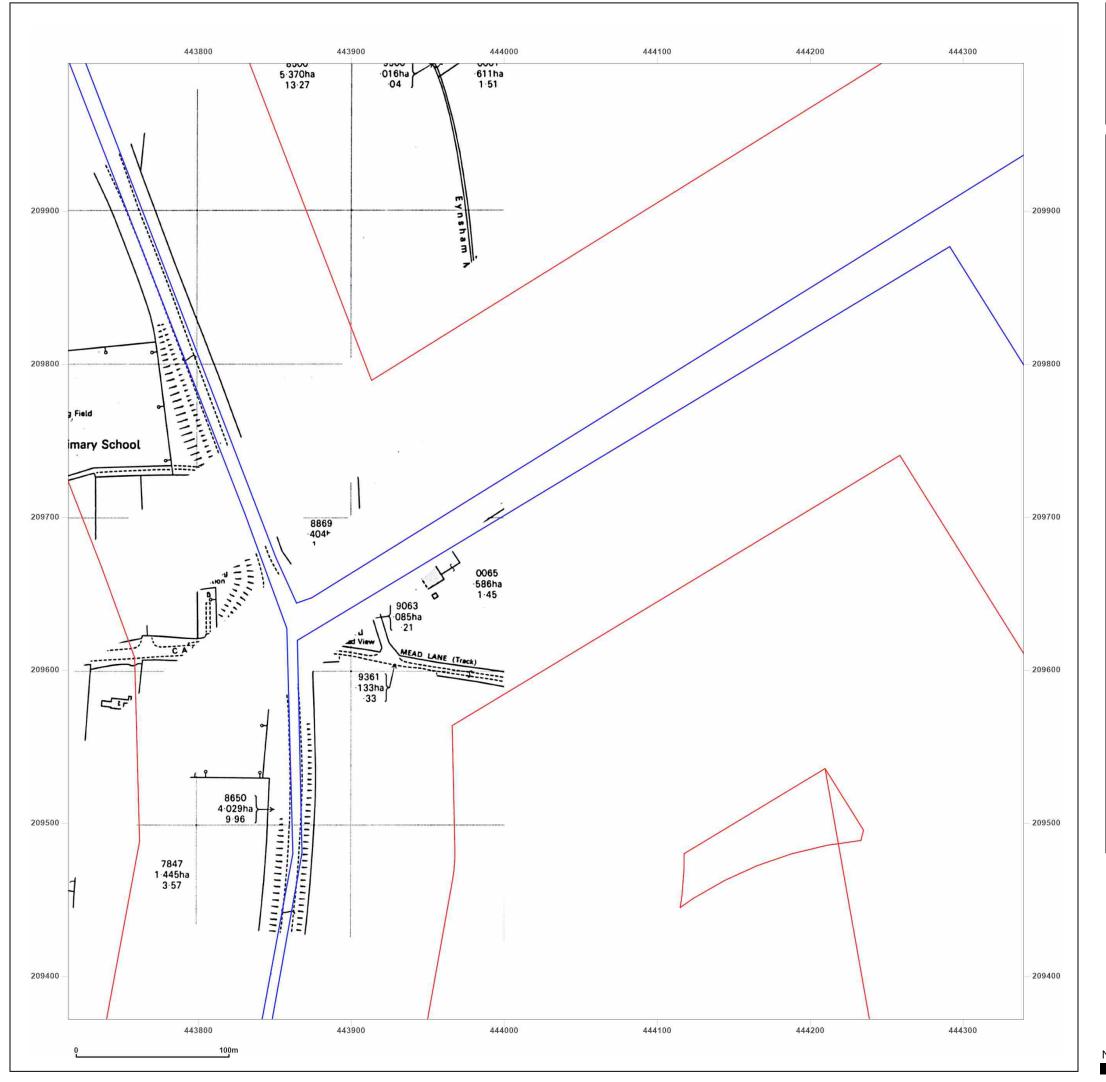


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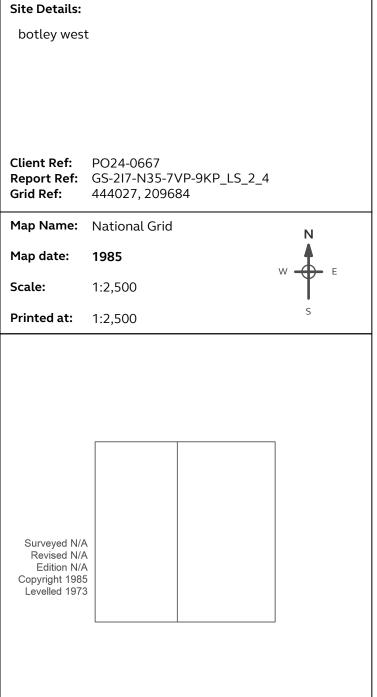


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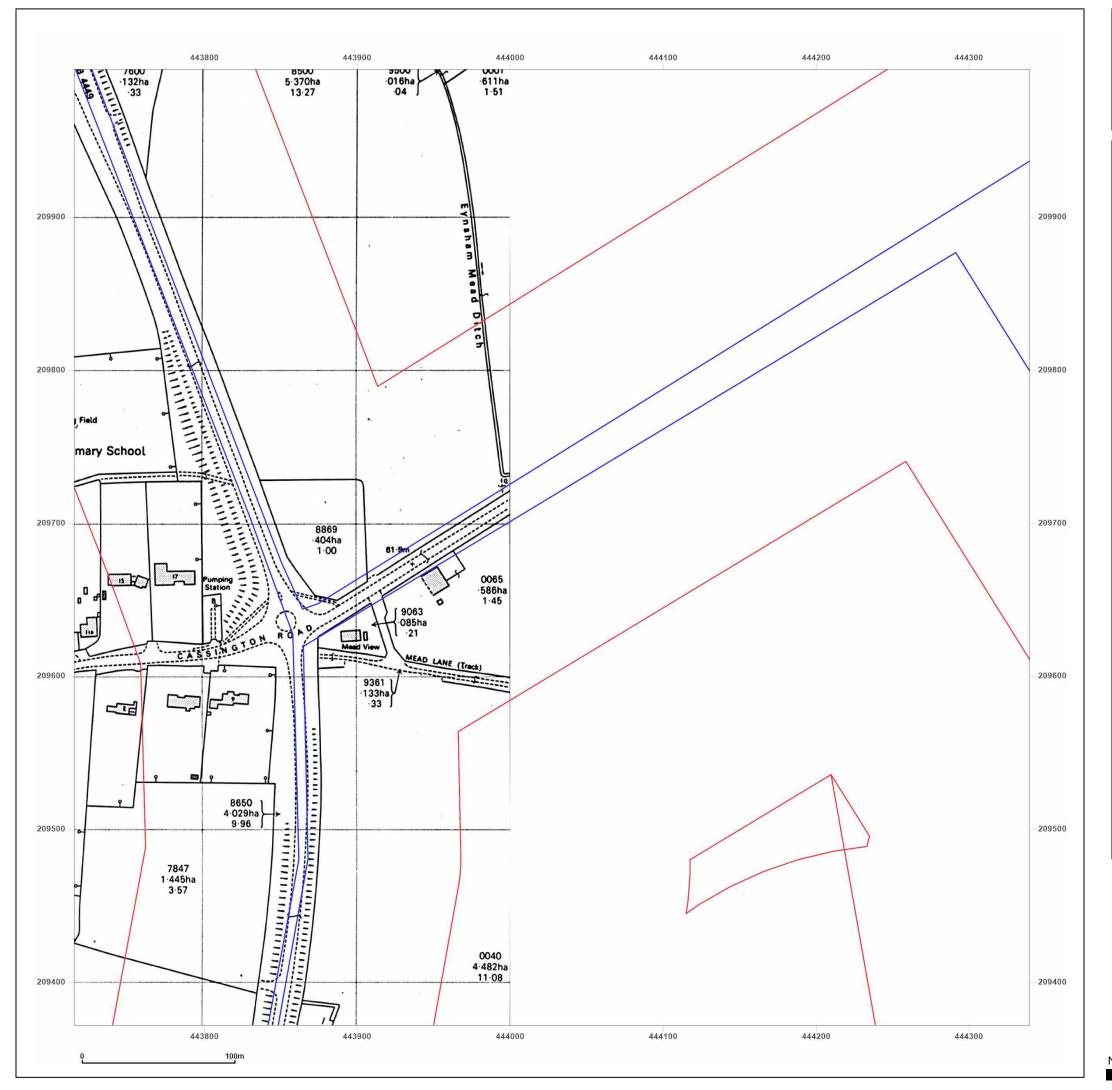






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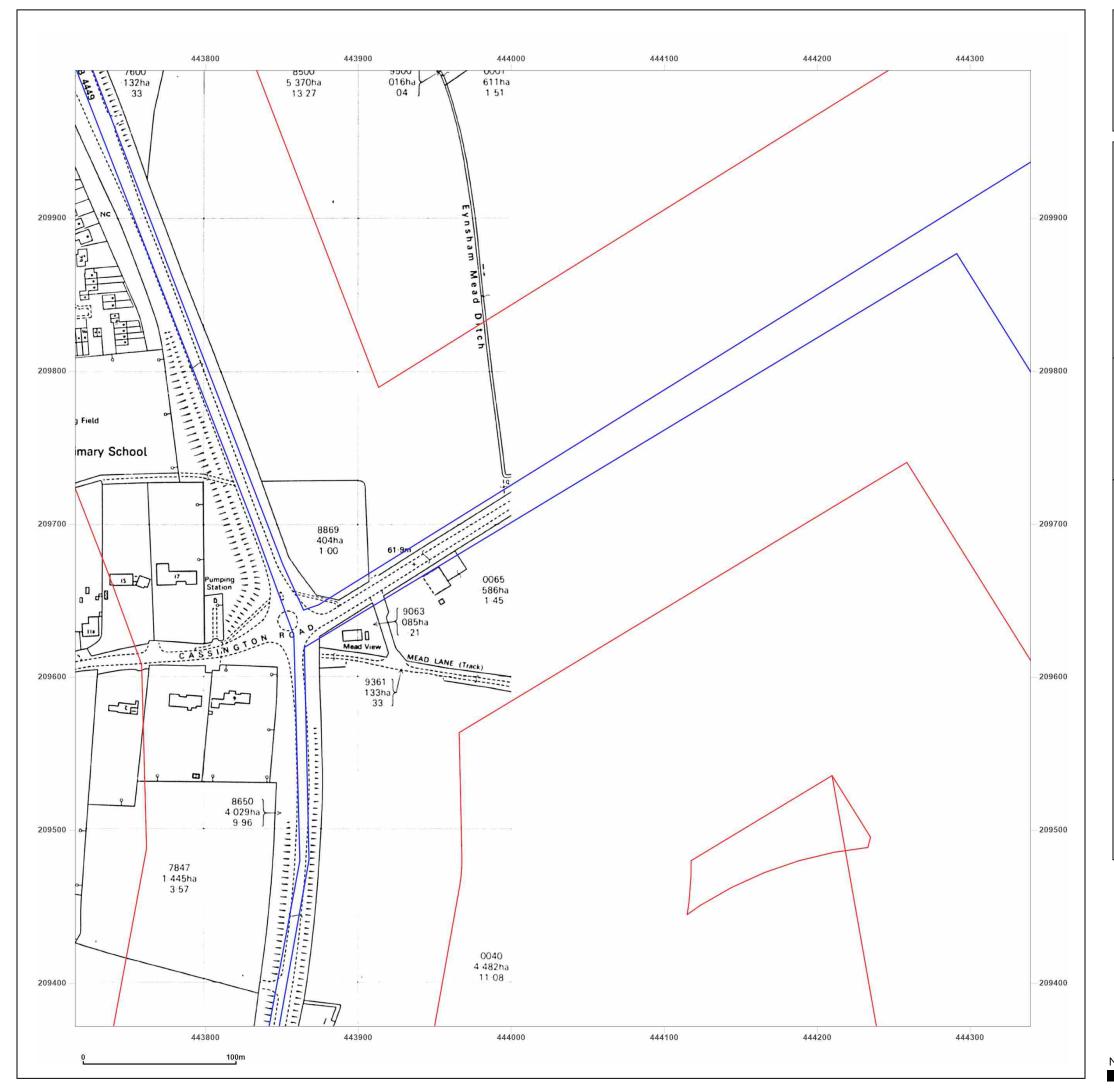


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Map Name:	National Grid	N
Map date:	1985	W E
Scale:	1:2,500	" T 1
Printed at:	1:2,500	S
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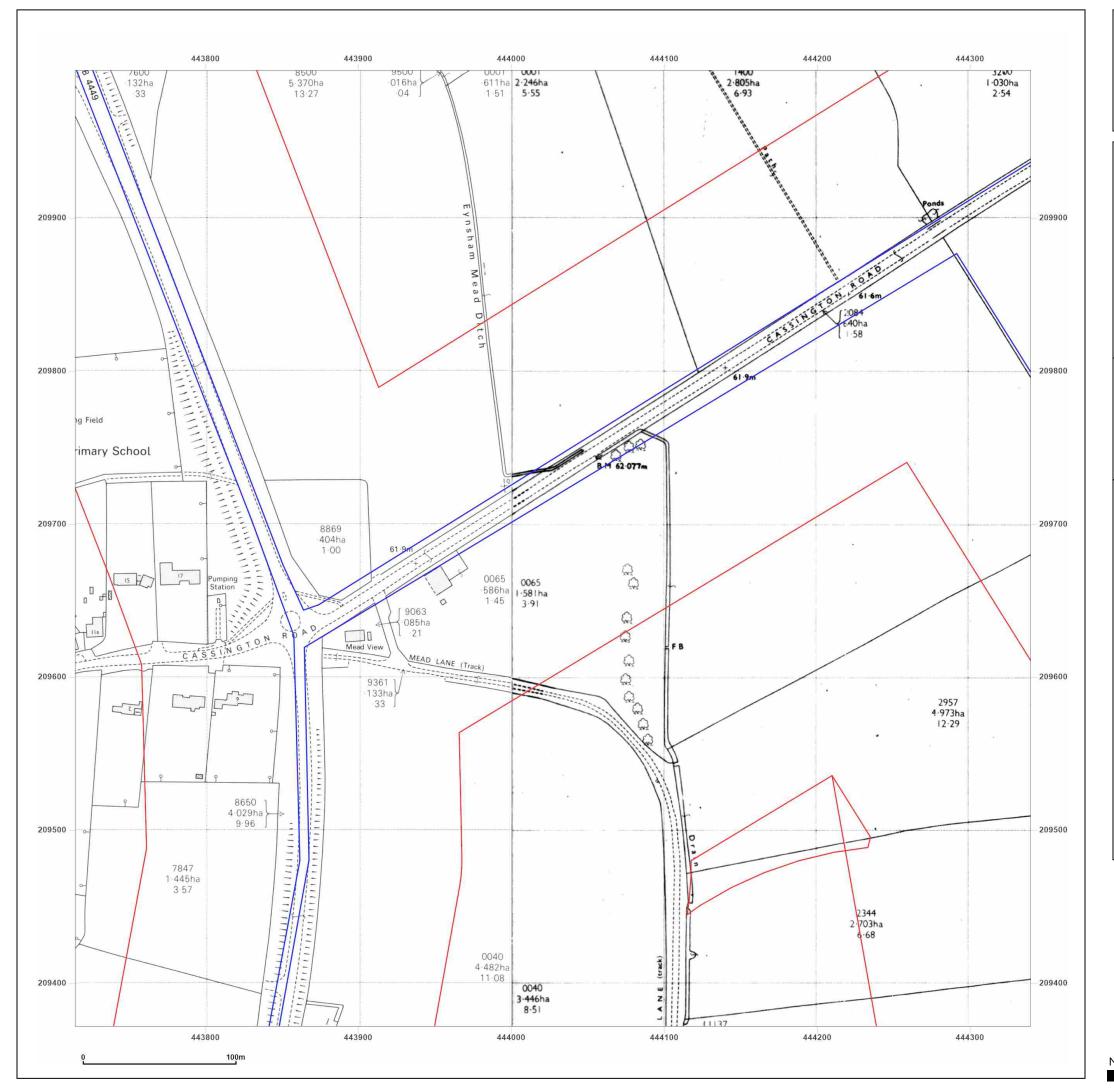


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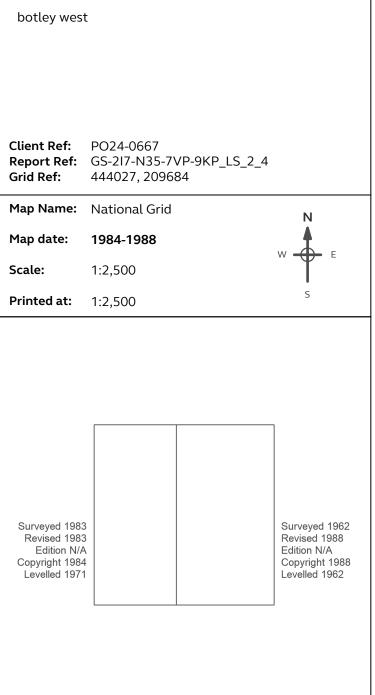


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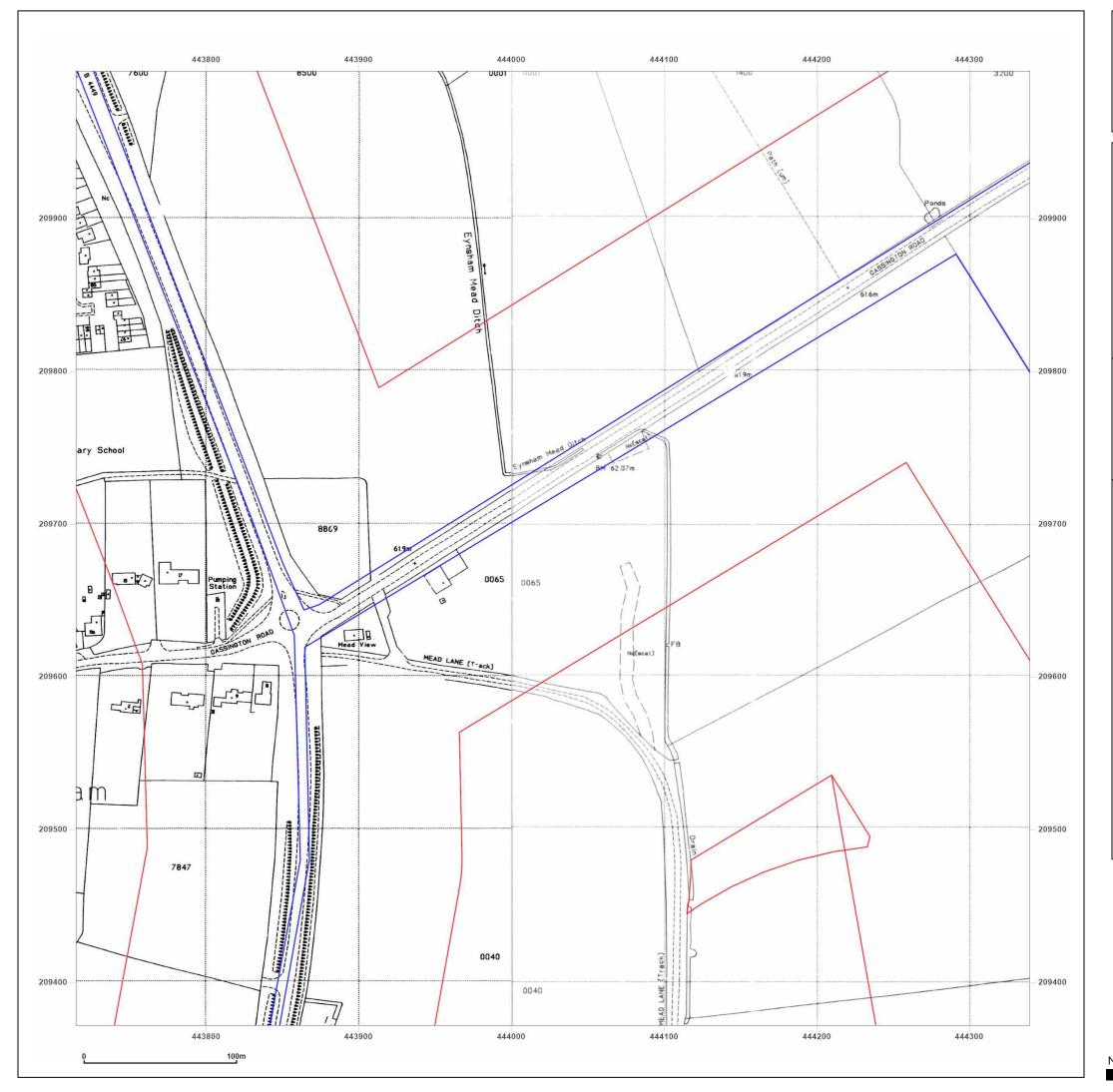




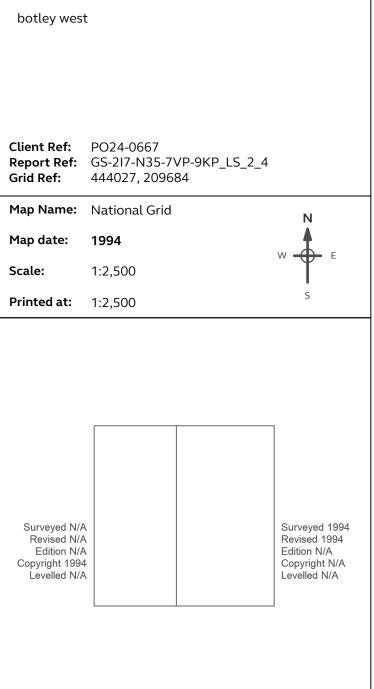
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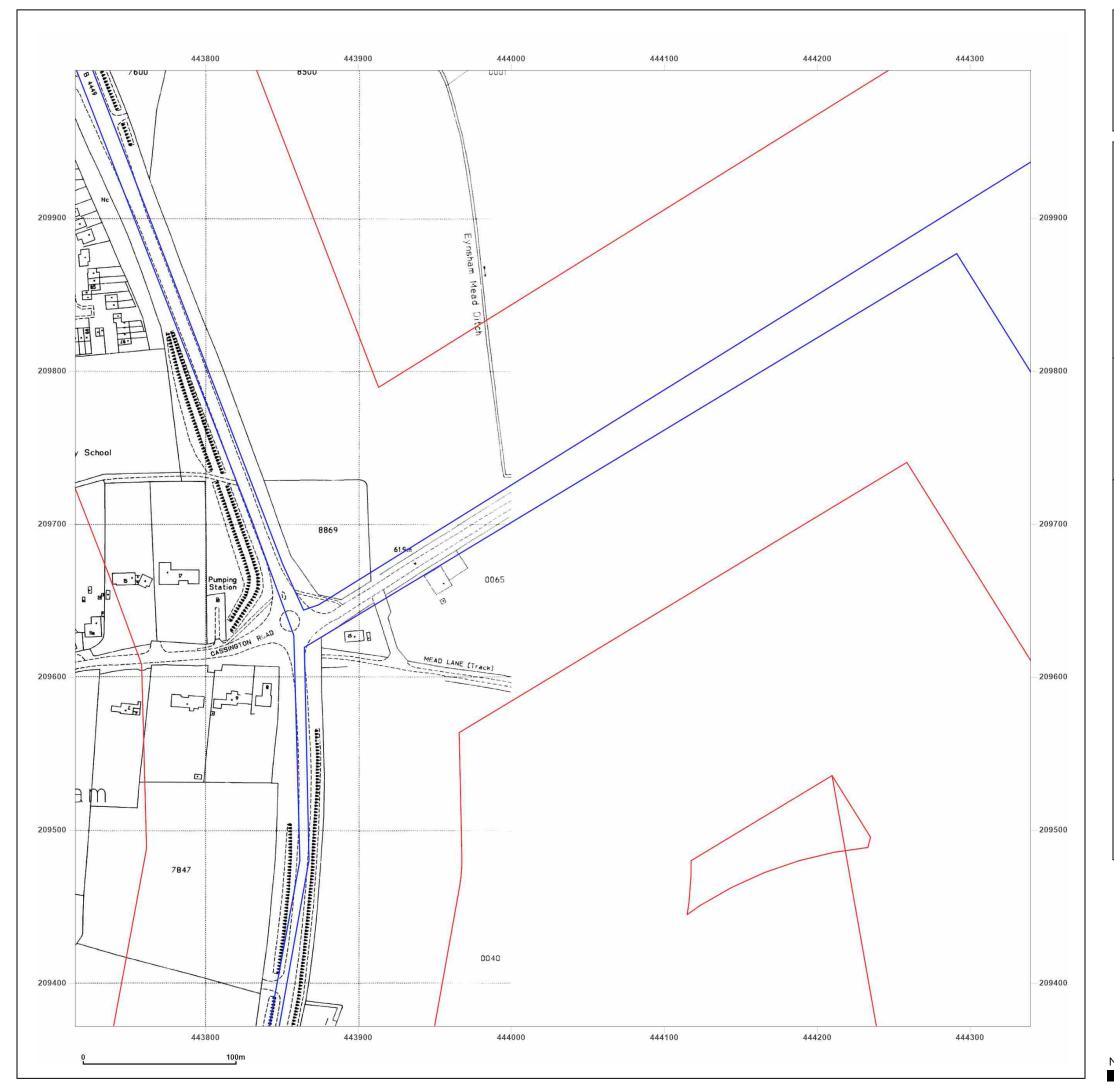




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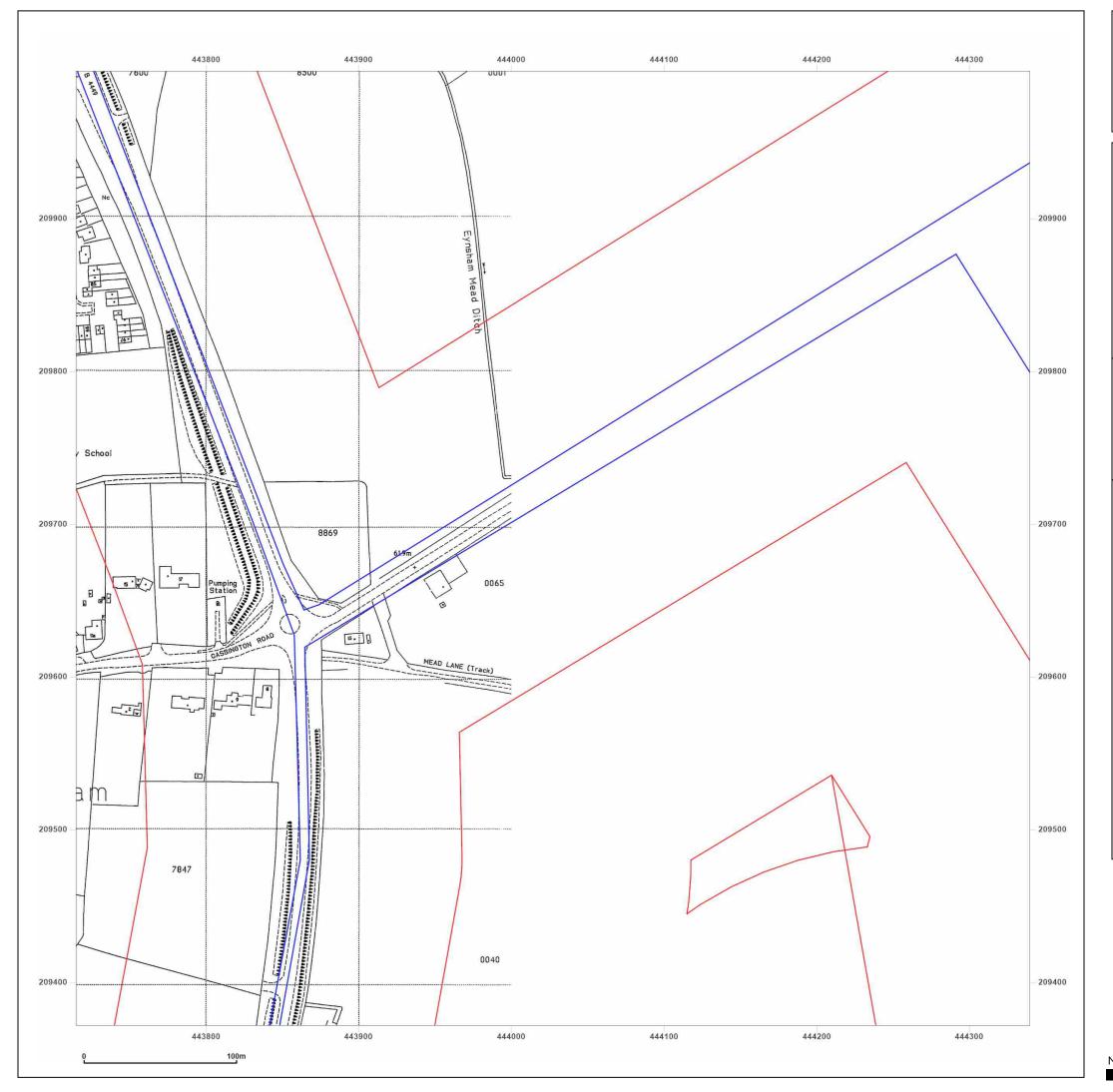


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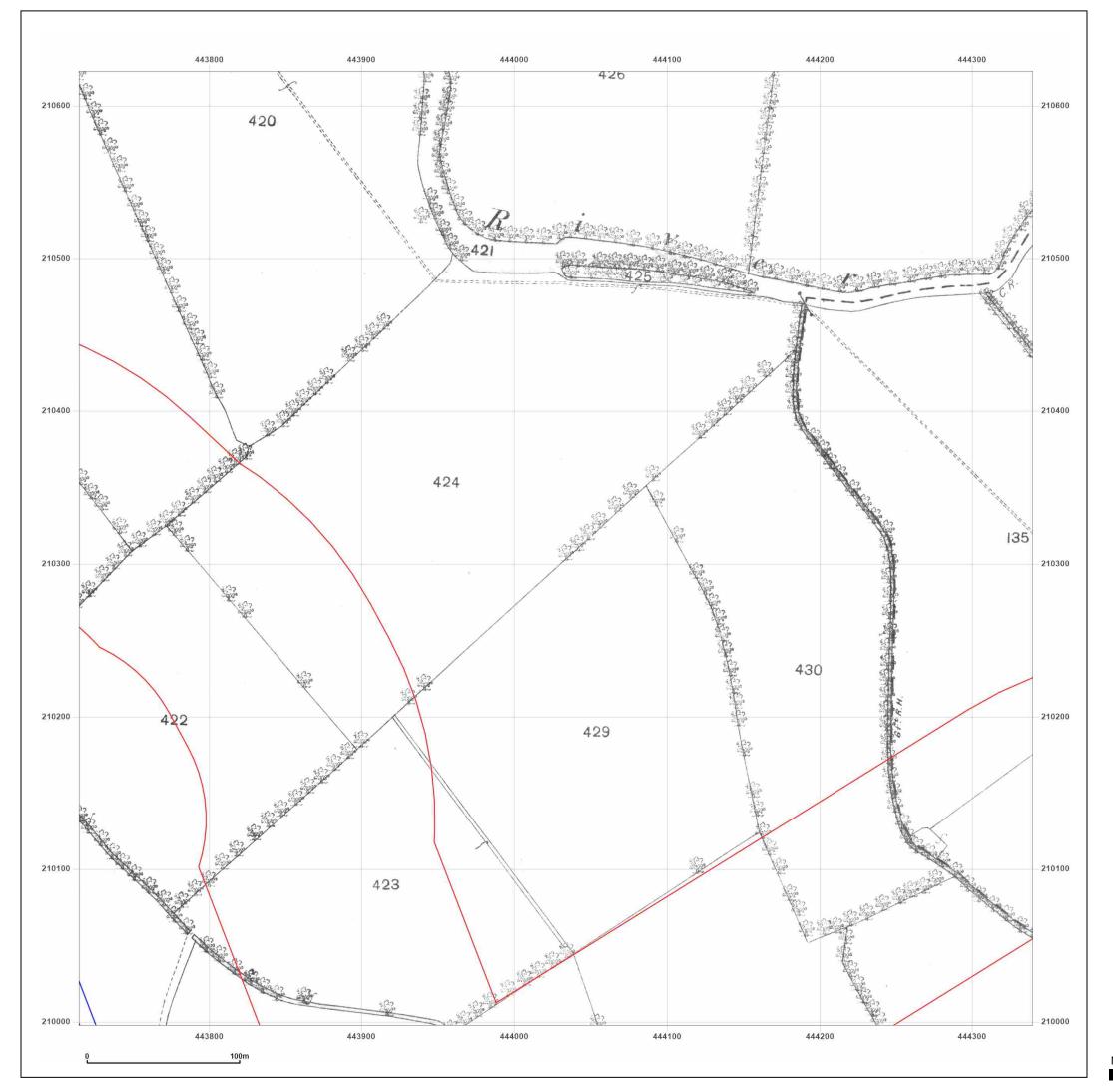


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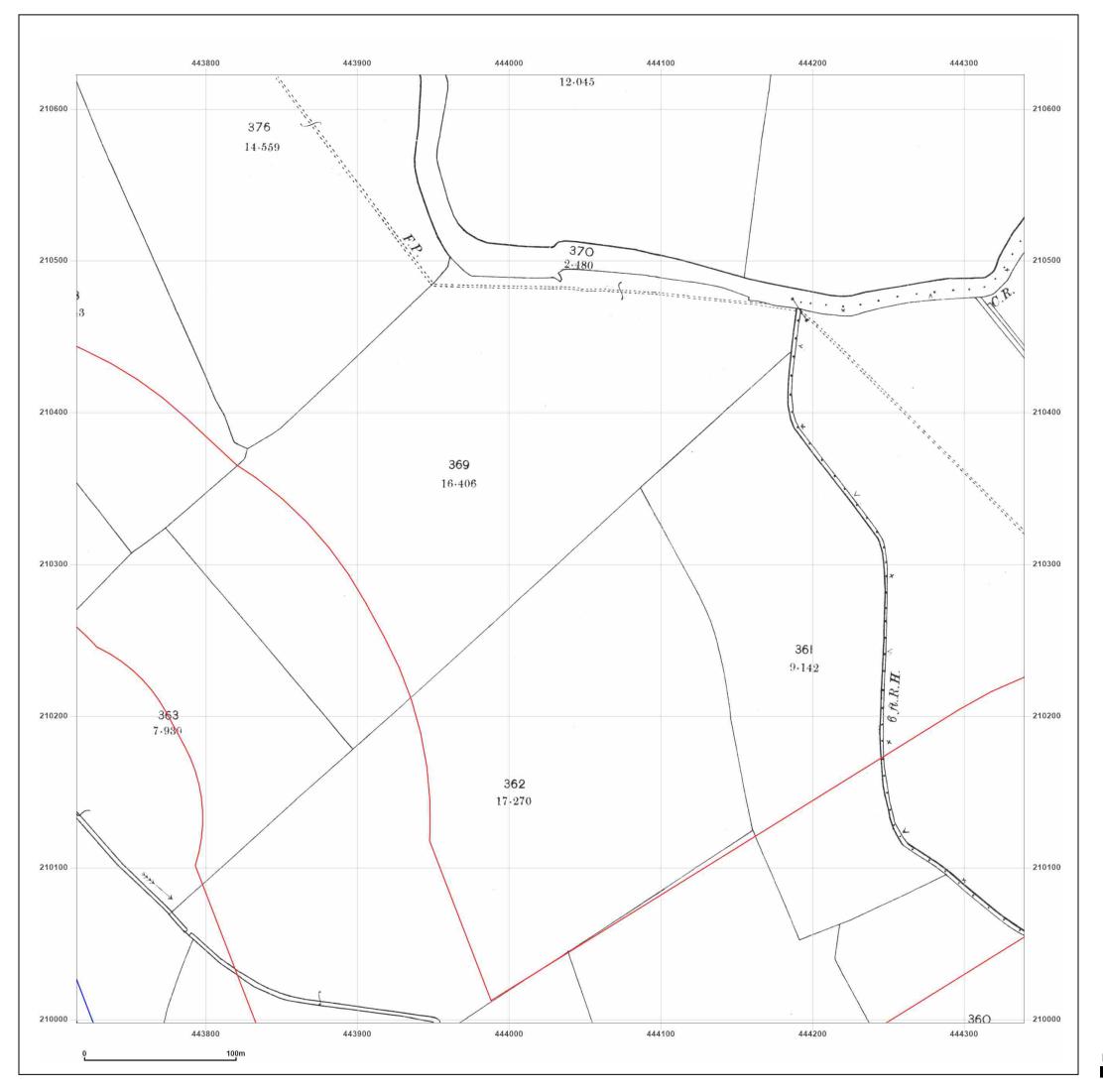
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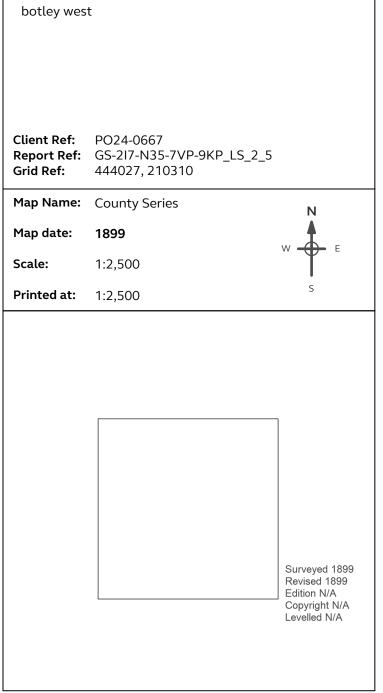
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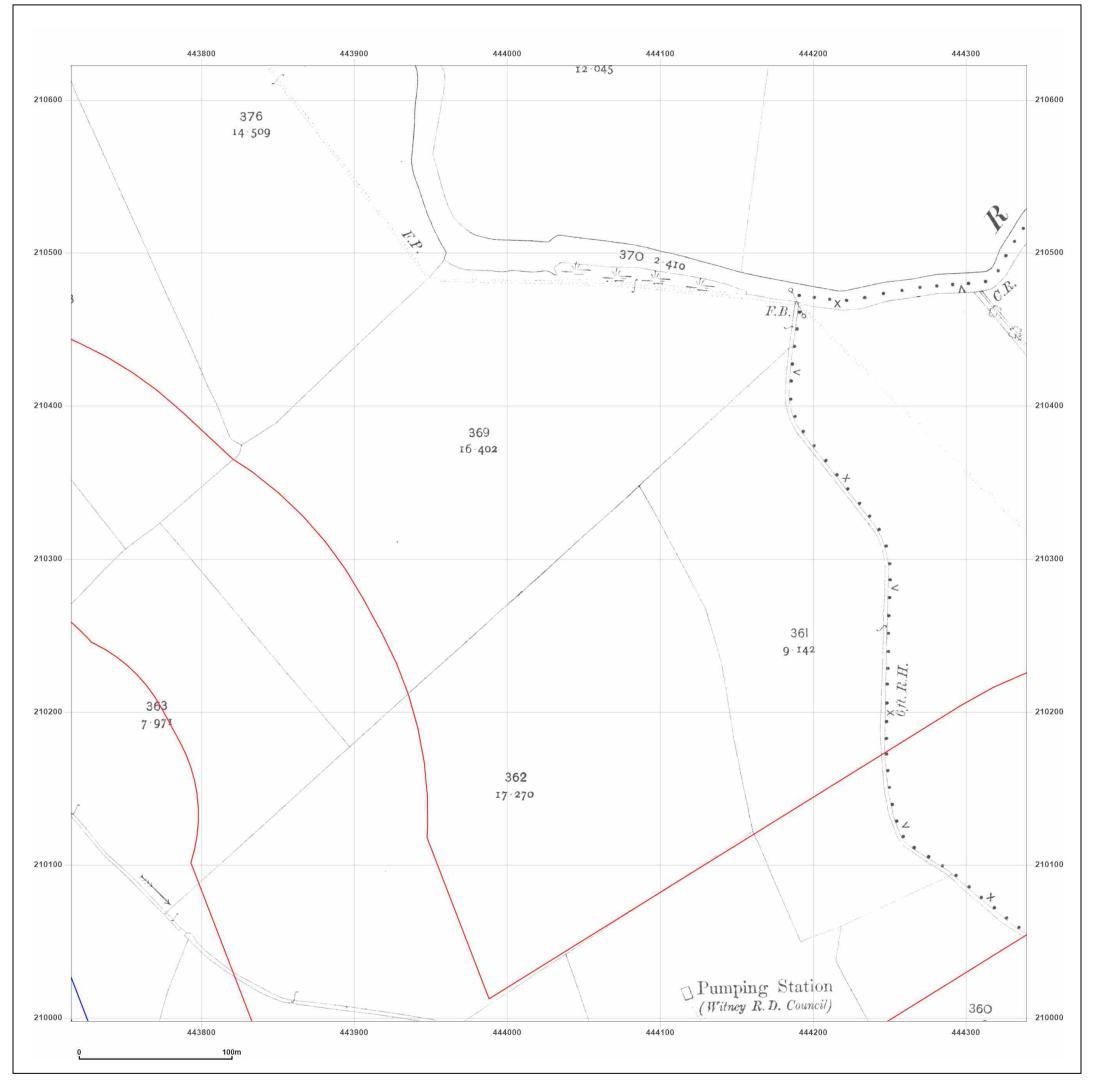




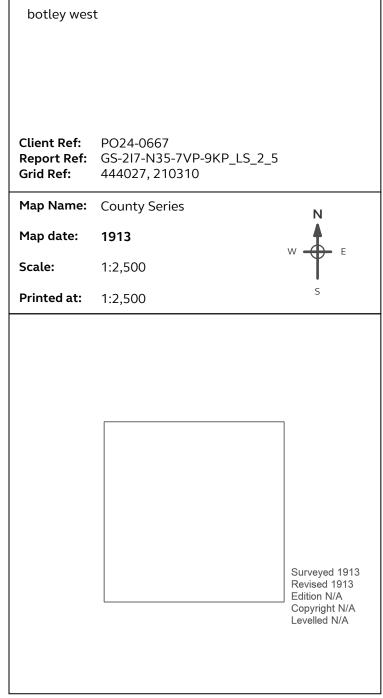
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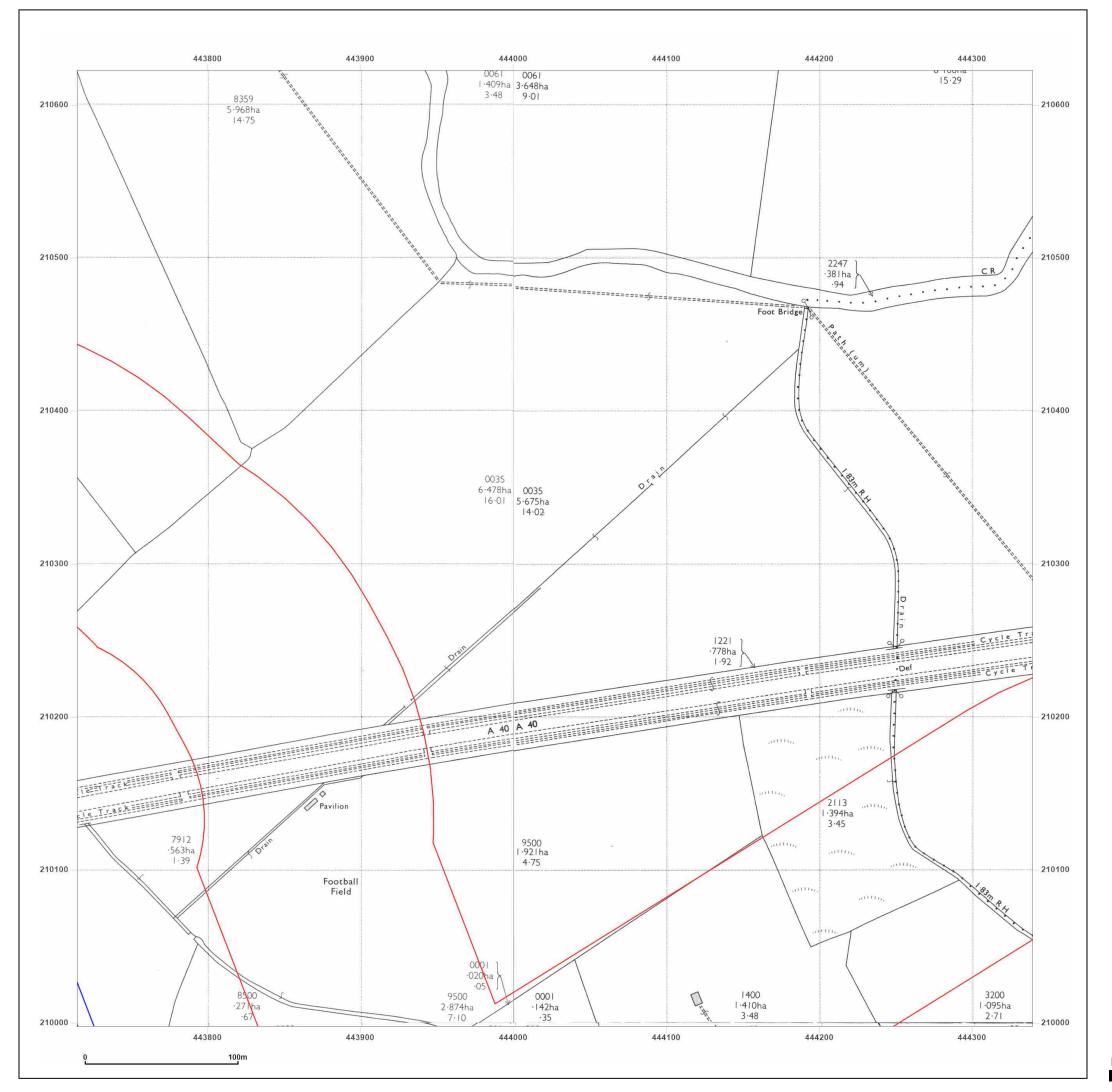




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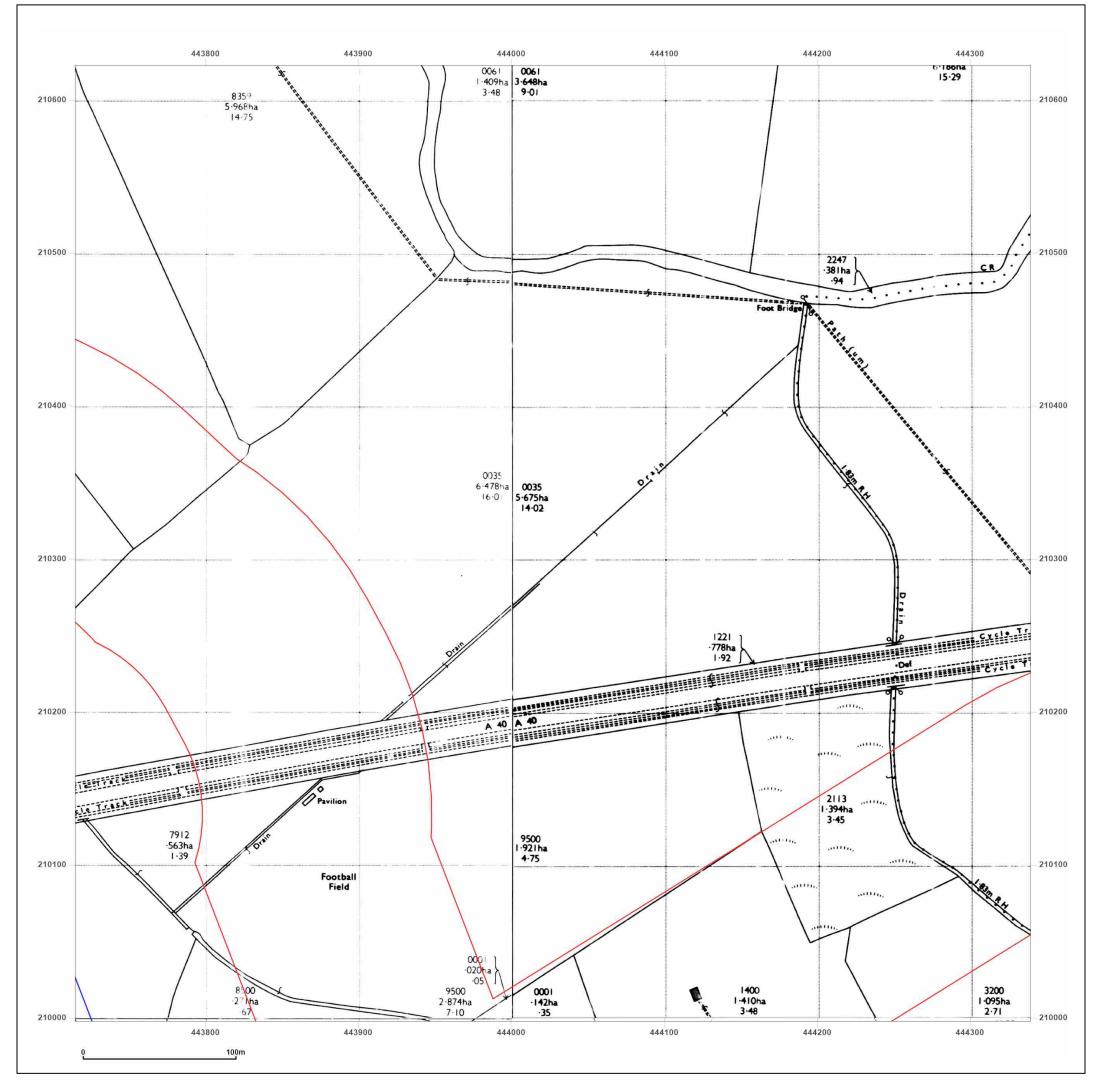
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Map date:	1970-1974	W F
Scale:	1:2,500	" T
Printed at:	1:2,500	S
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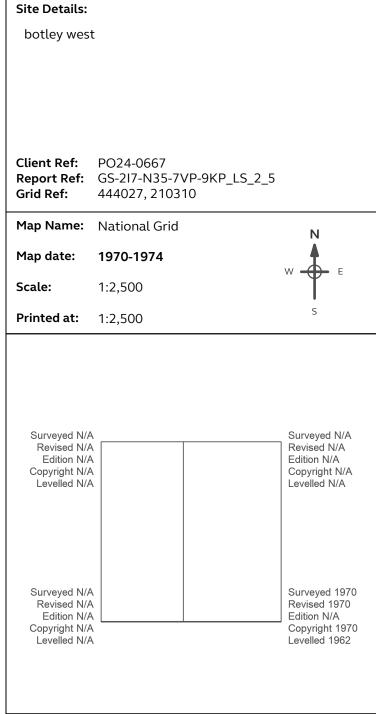
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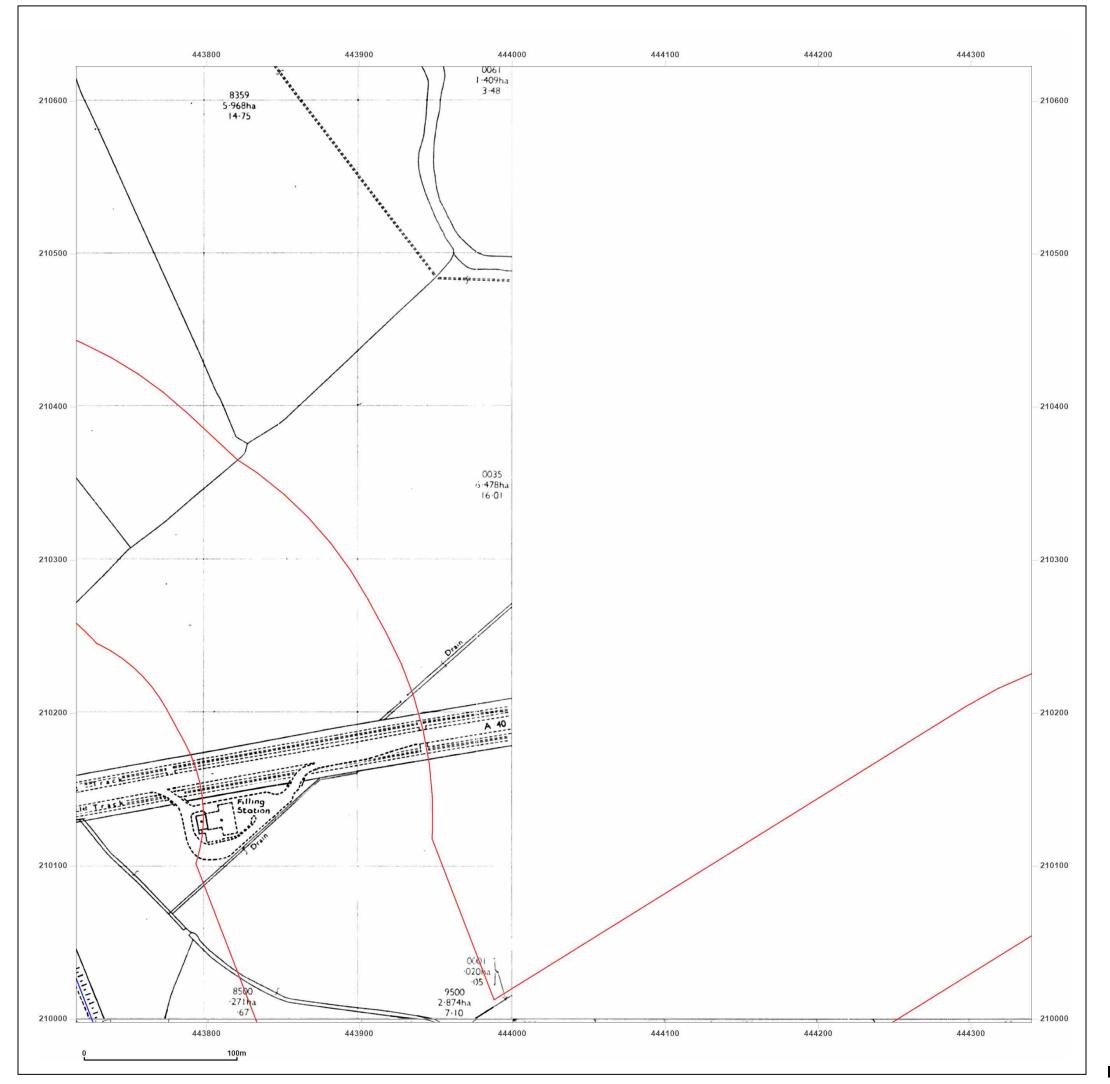






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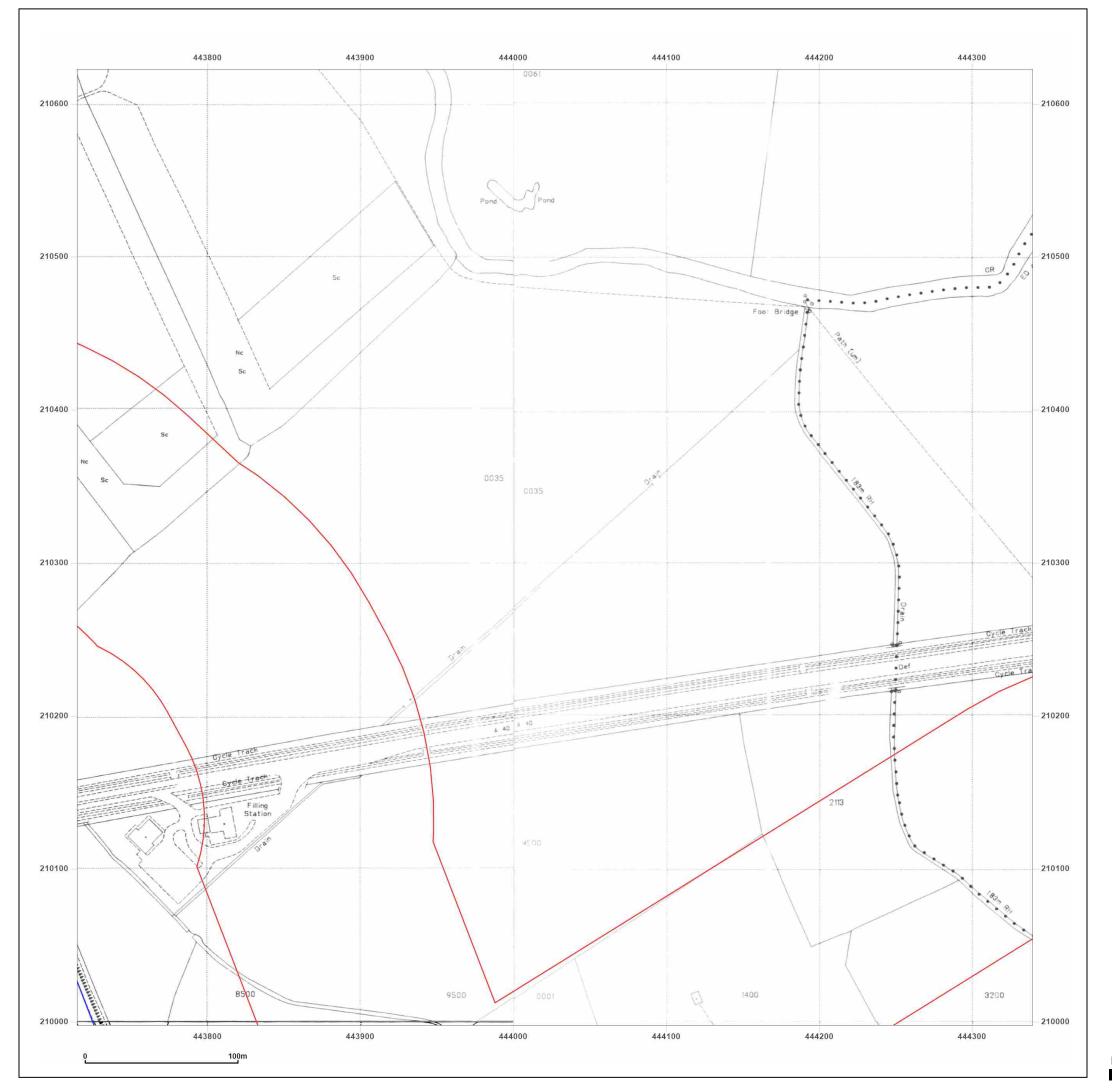


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Map date:	1984-1988	W E
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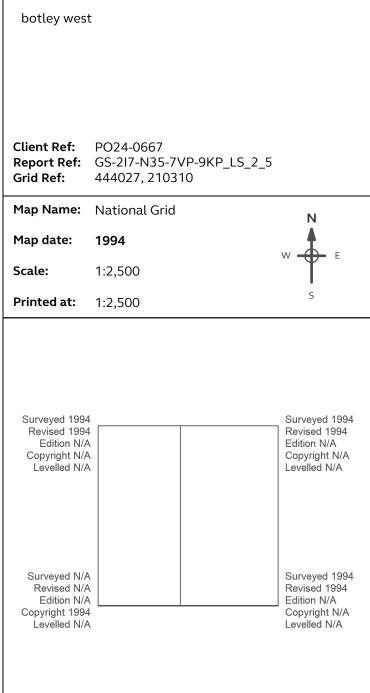


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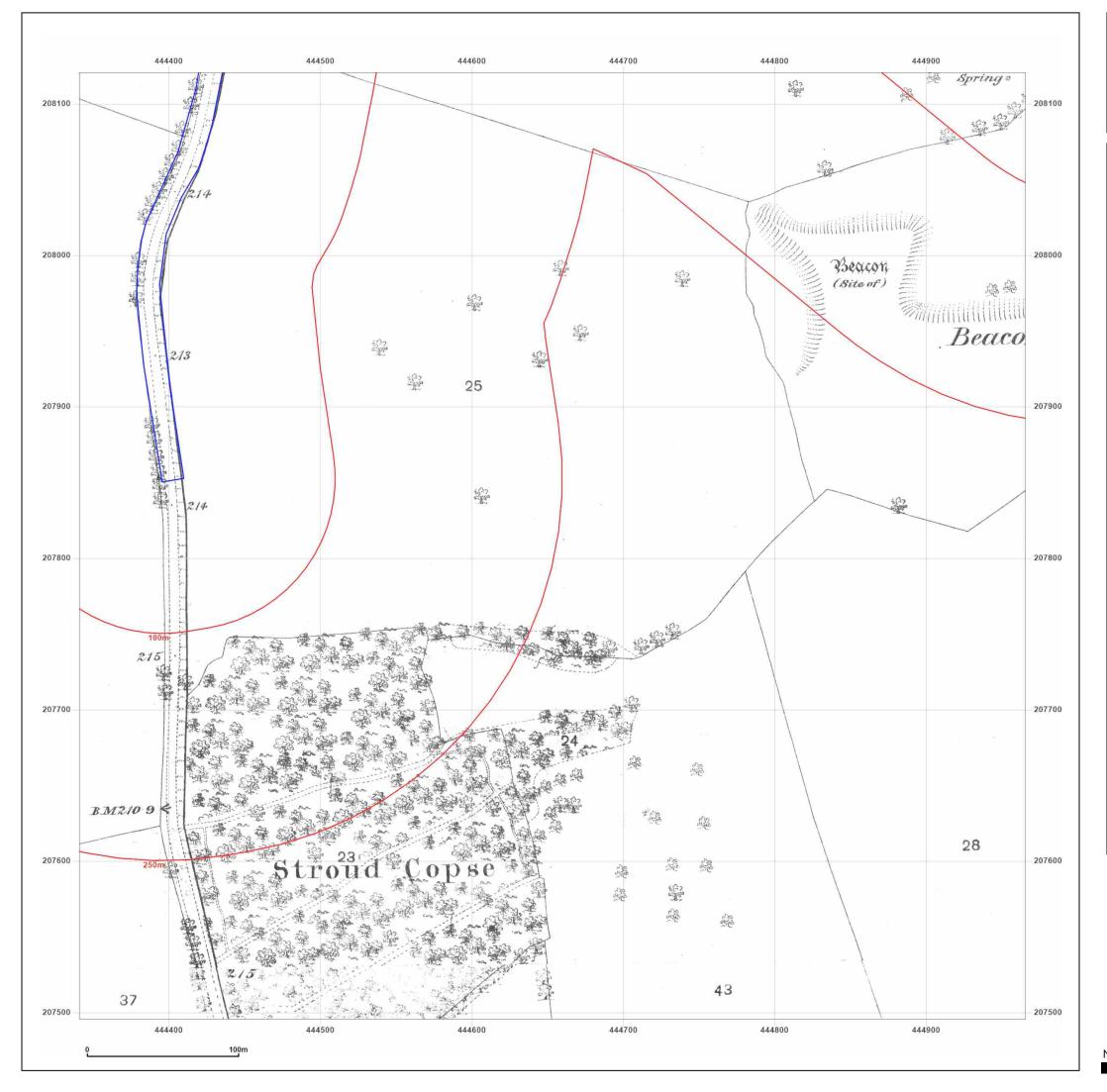




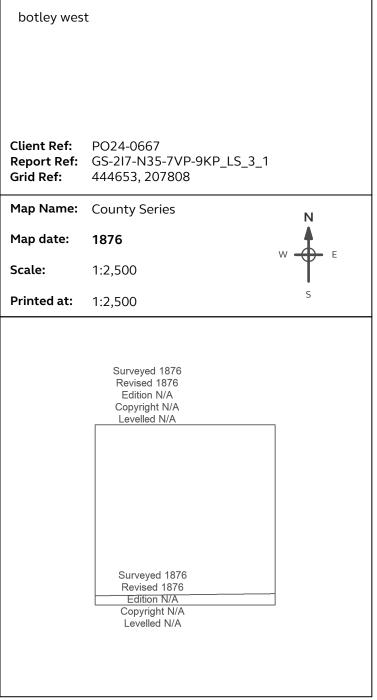
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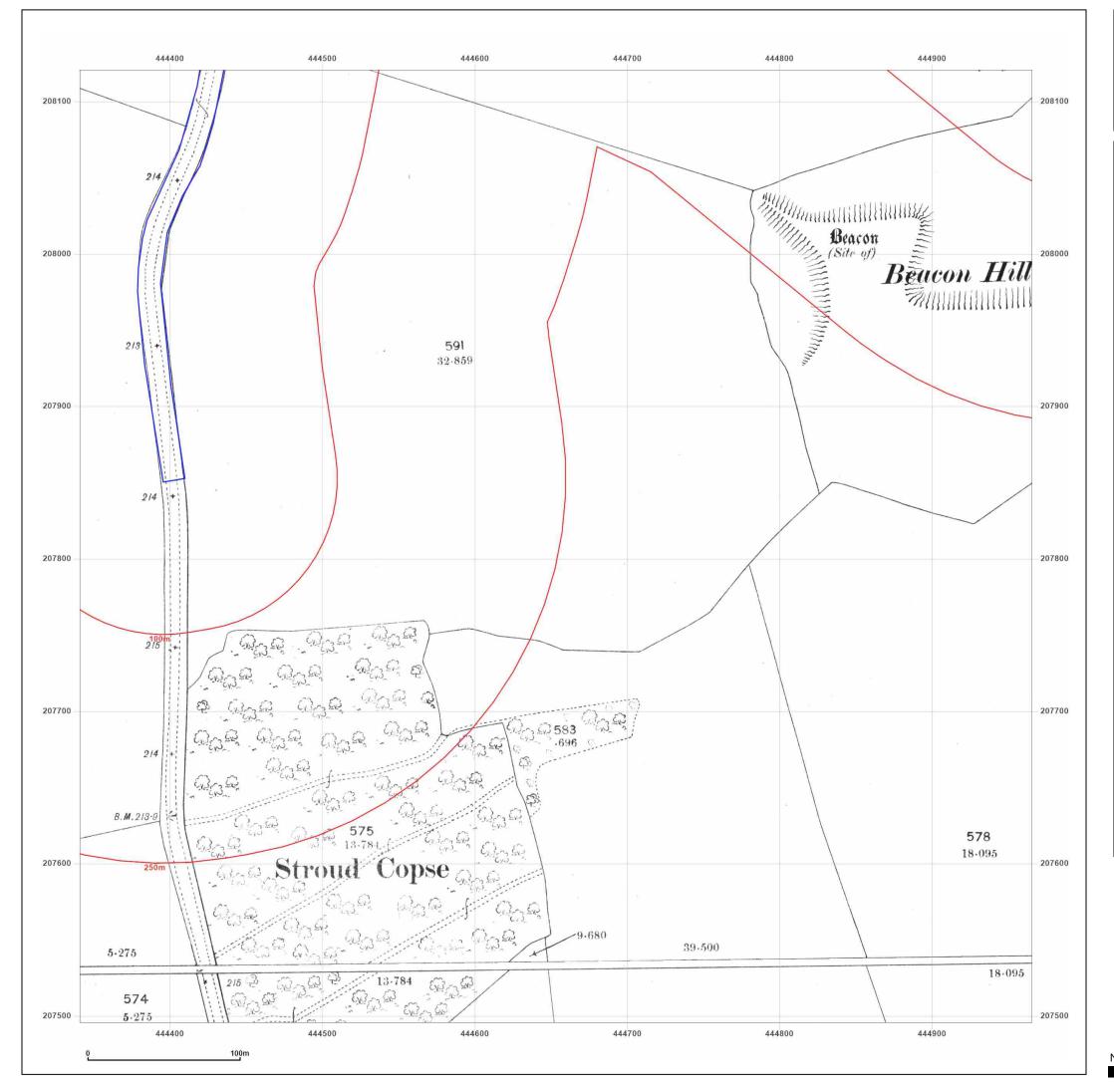




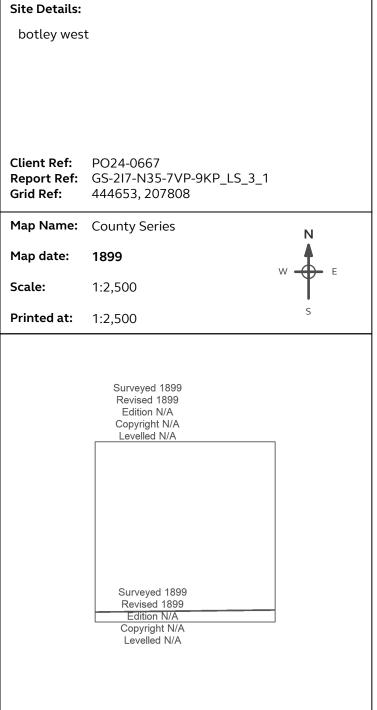
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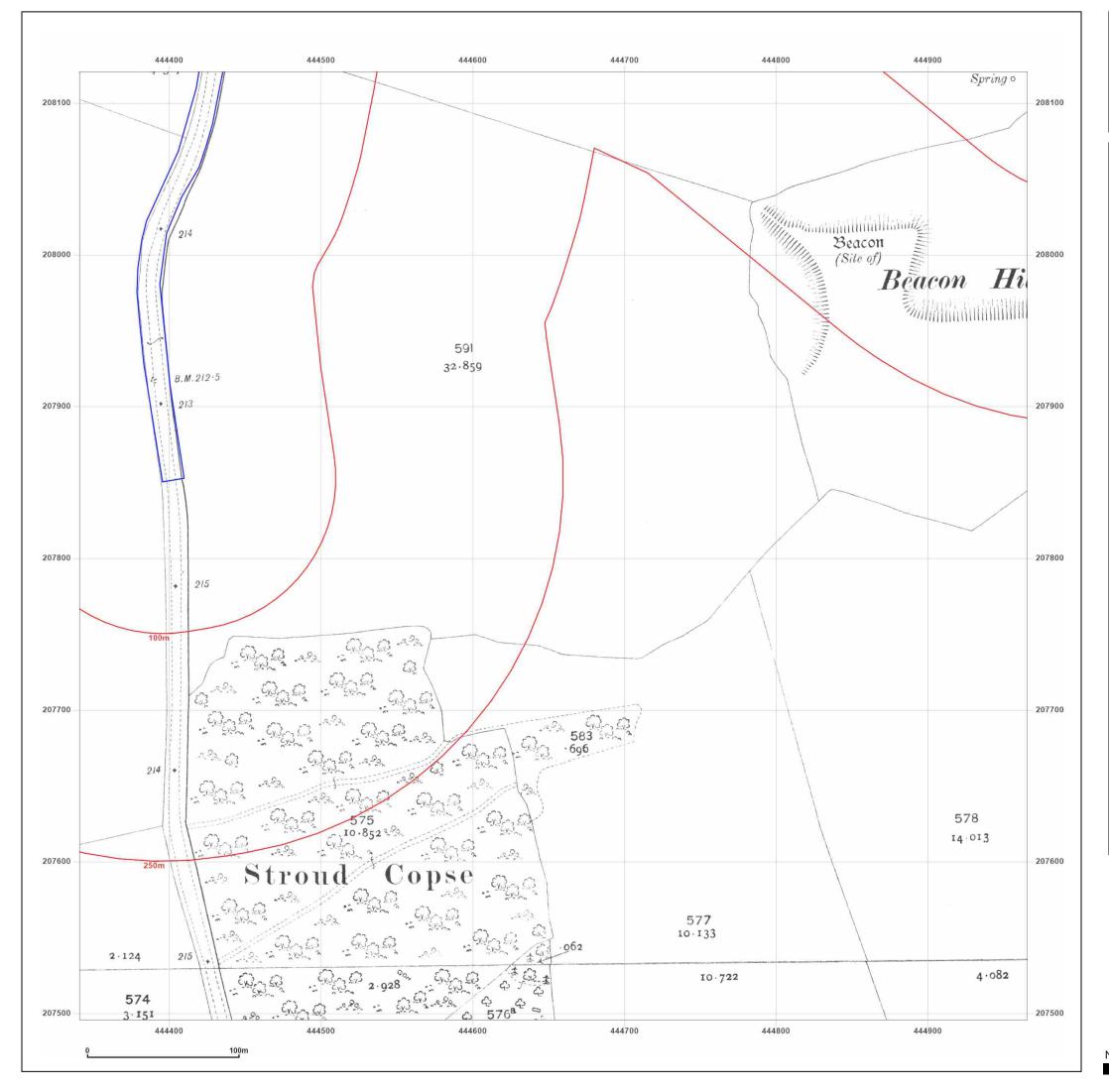




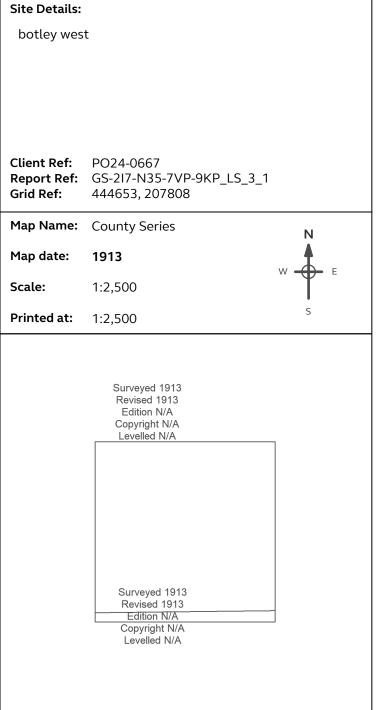


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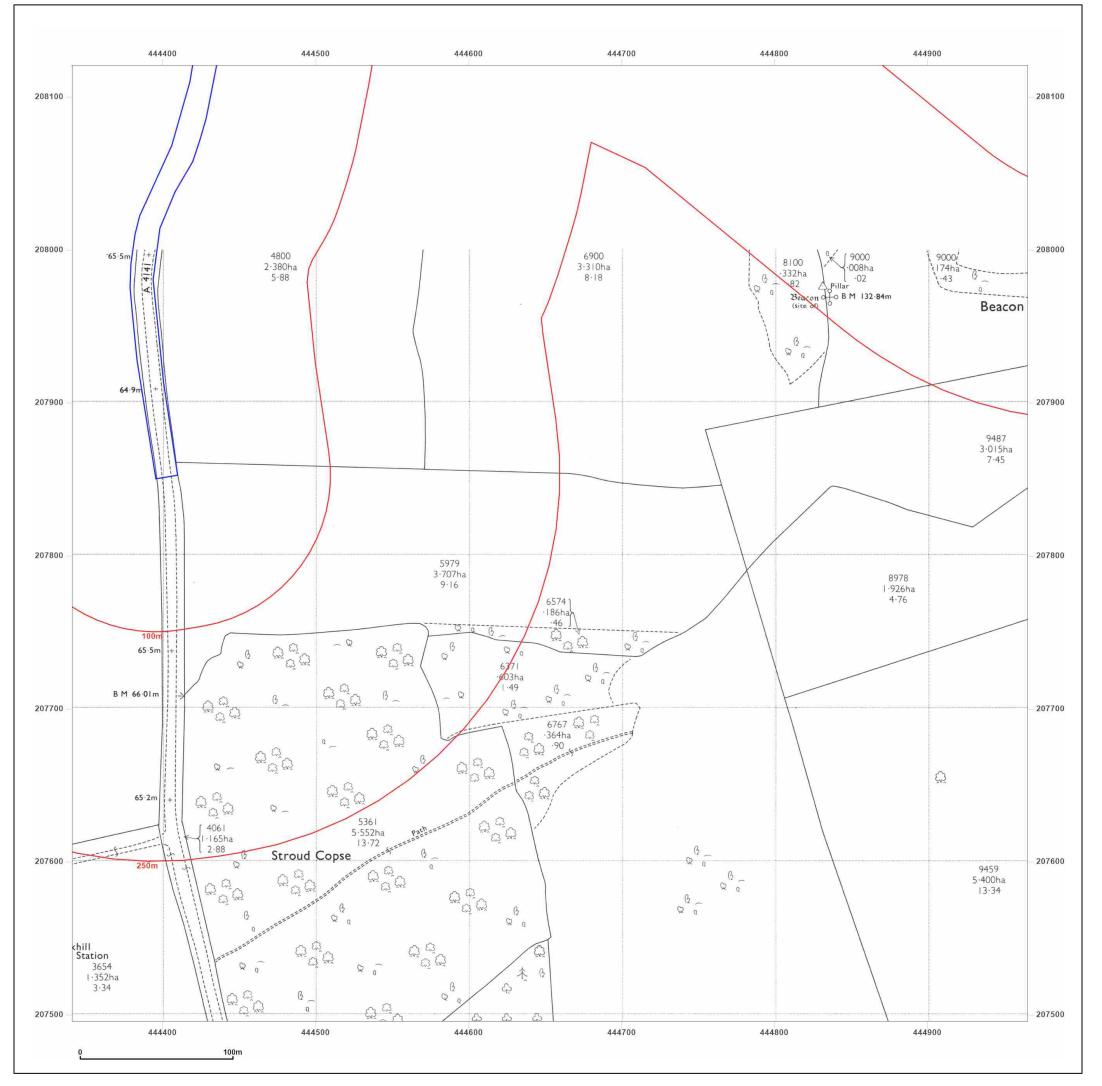






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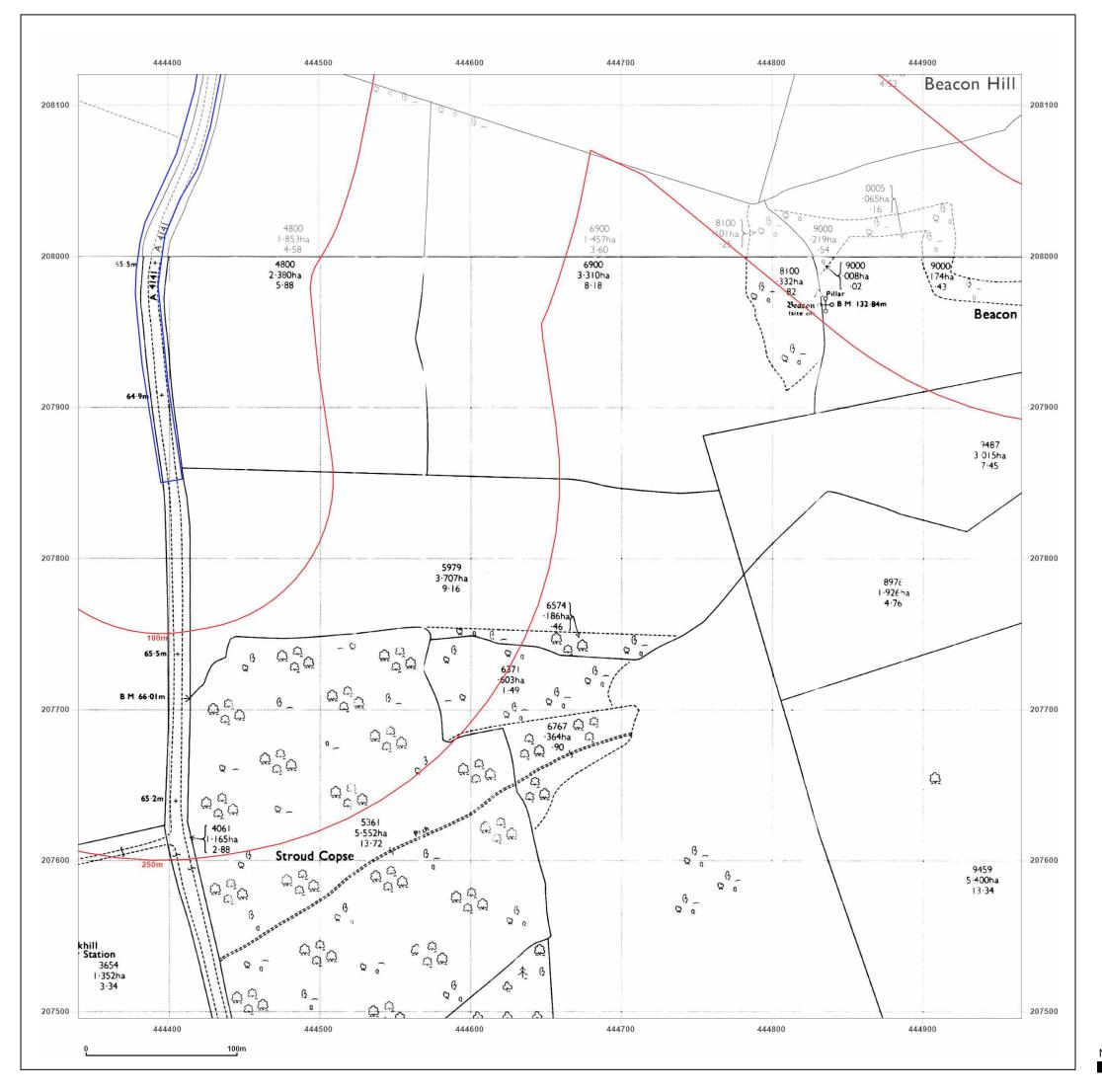
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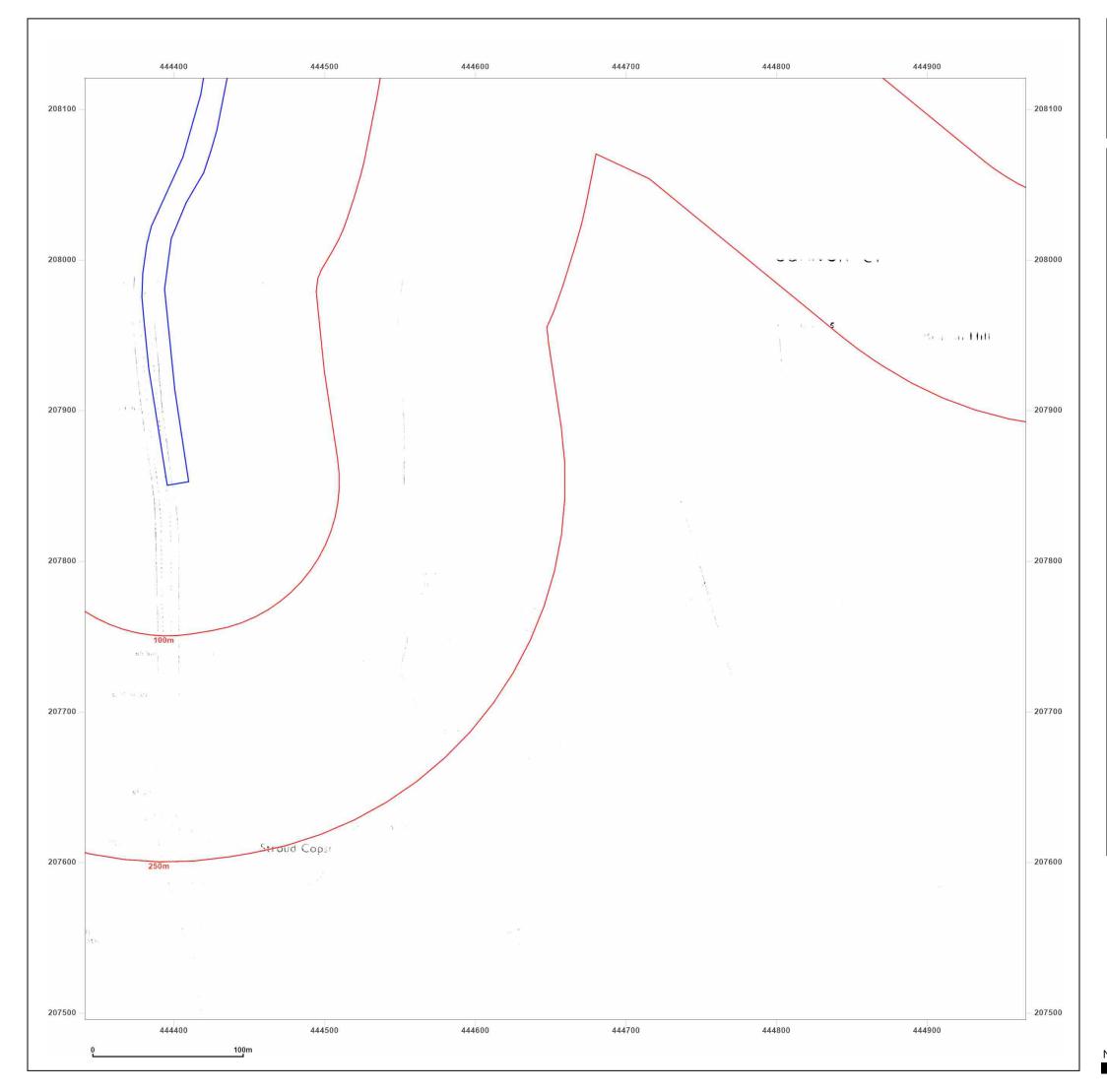
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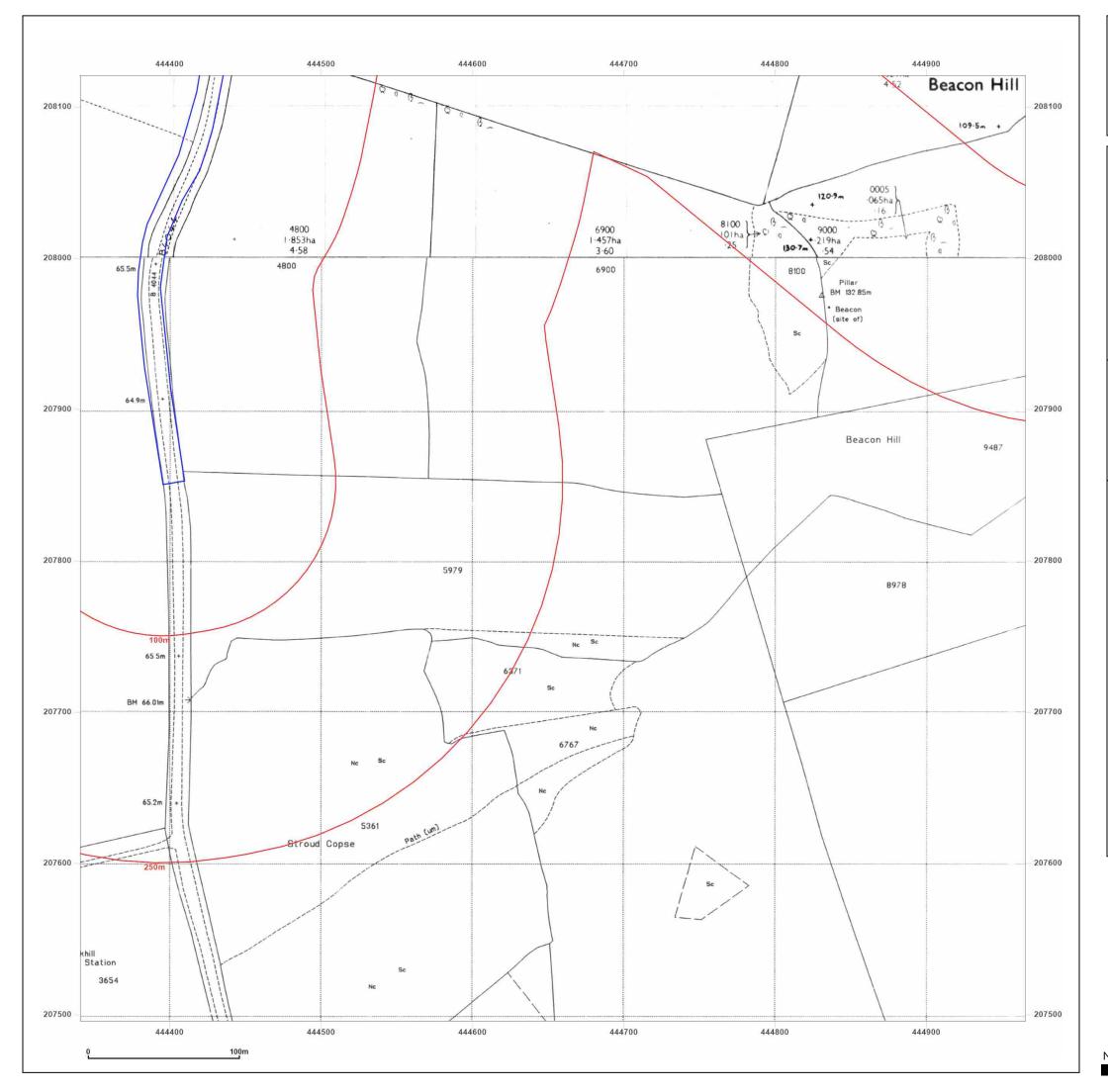
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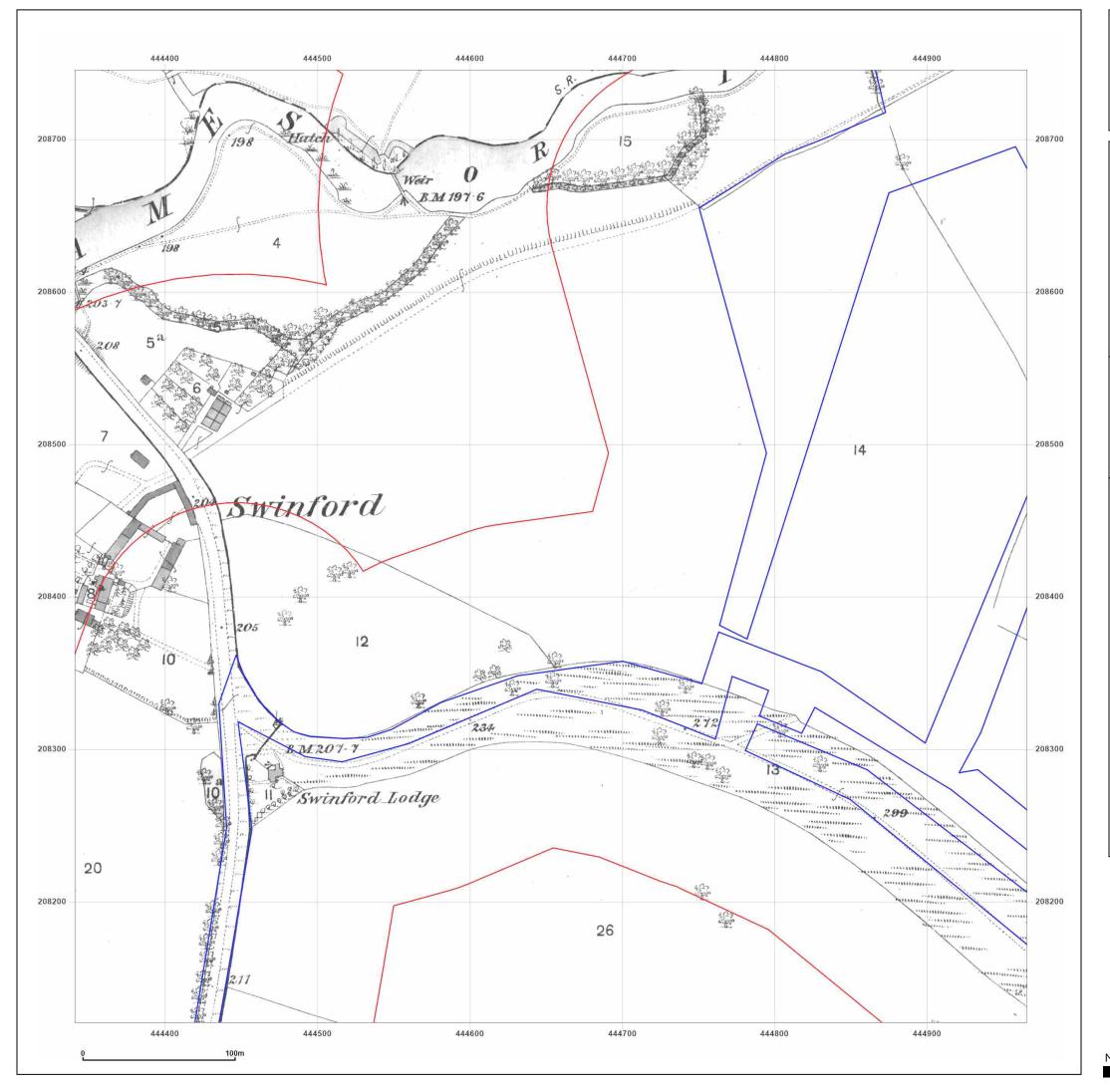
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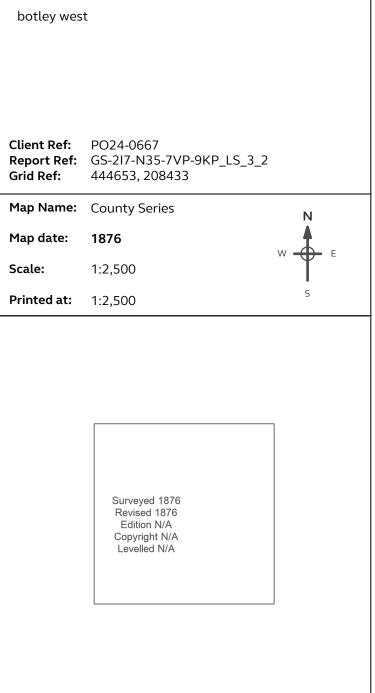
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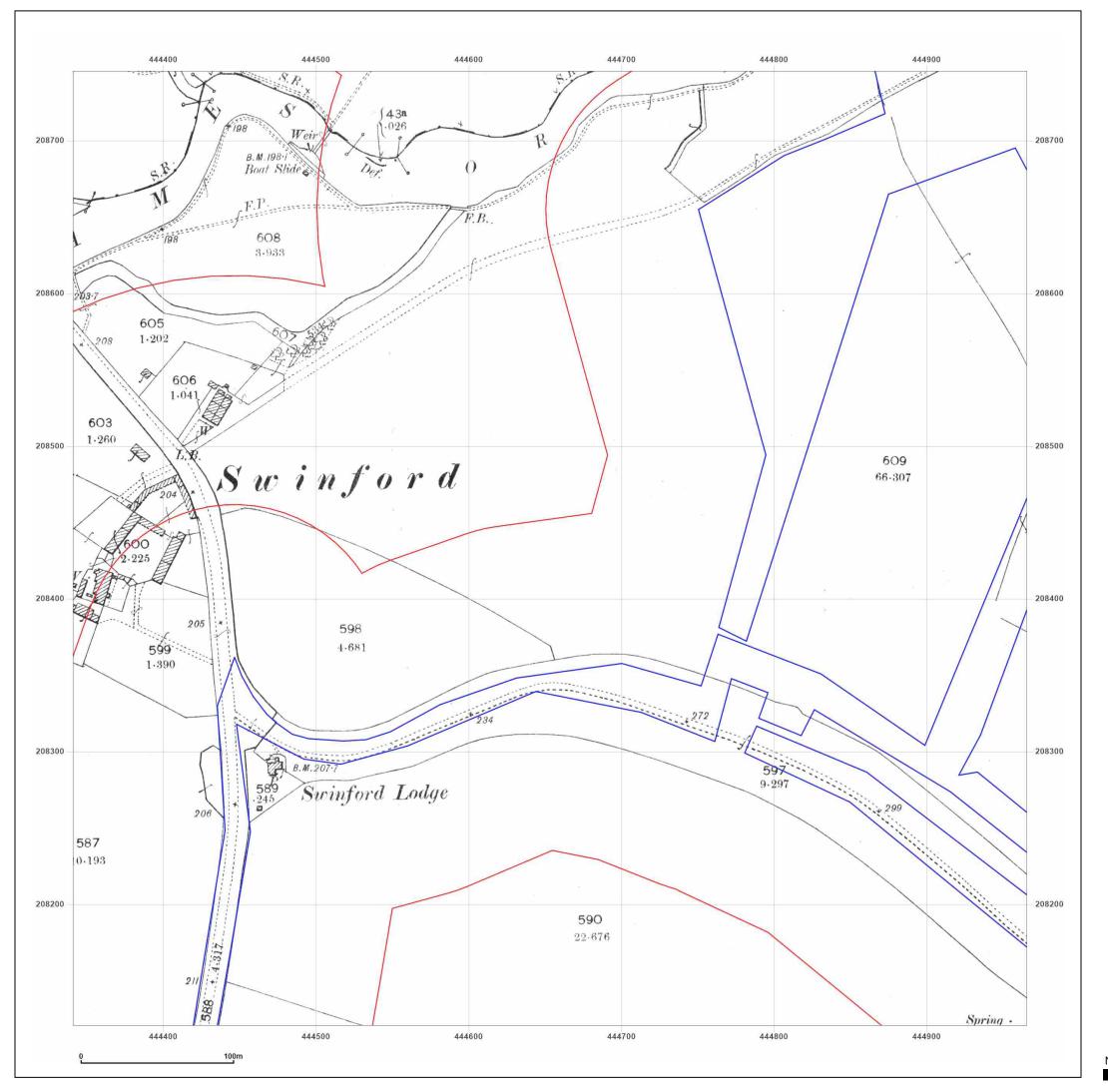




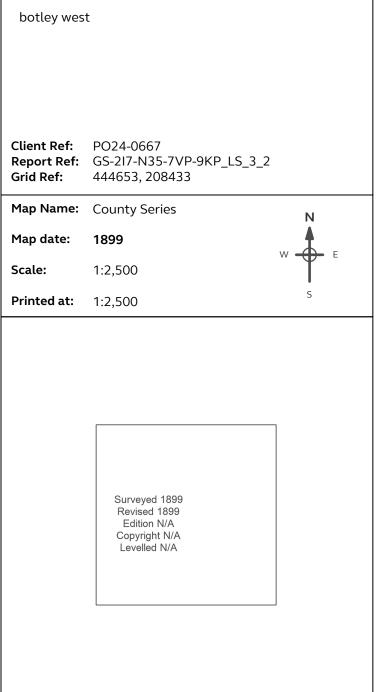
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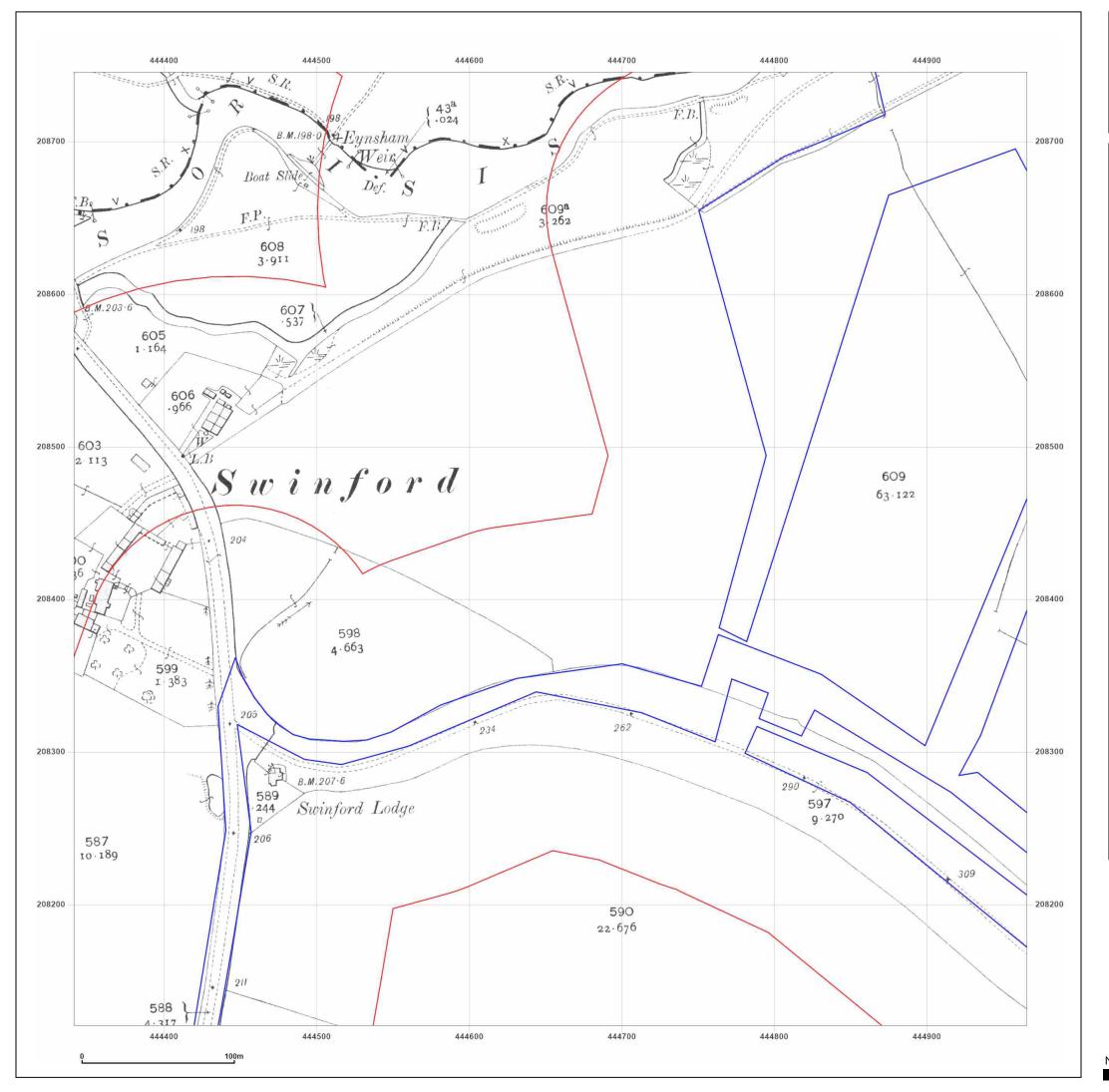




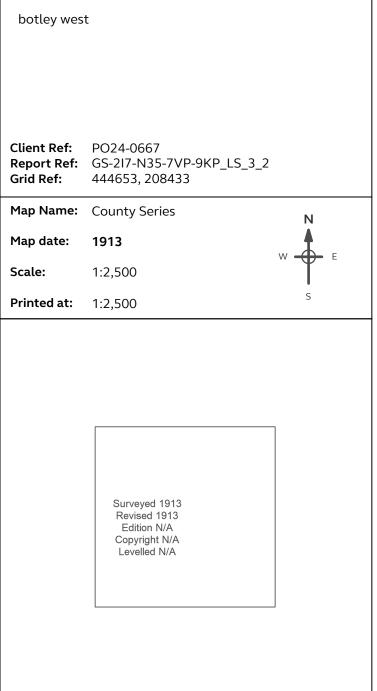
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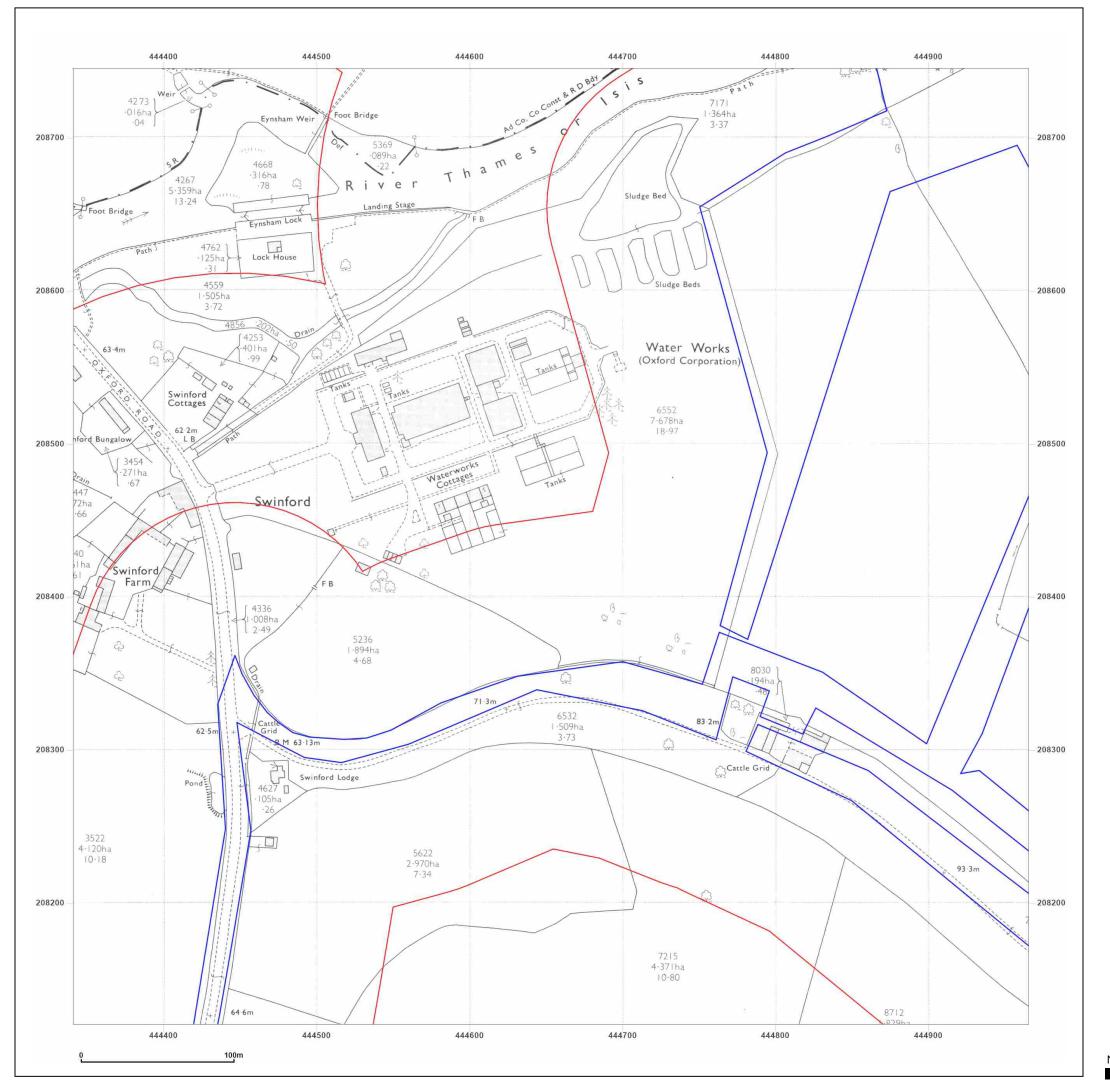




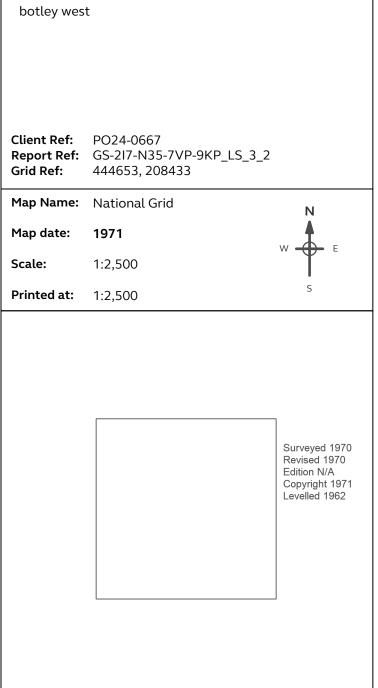
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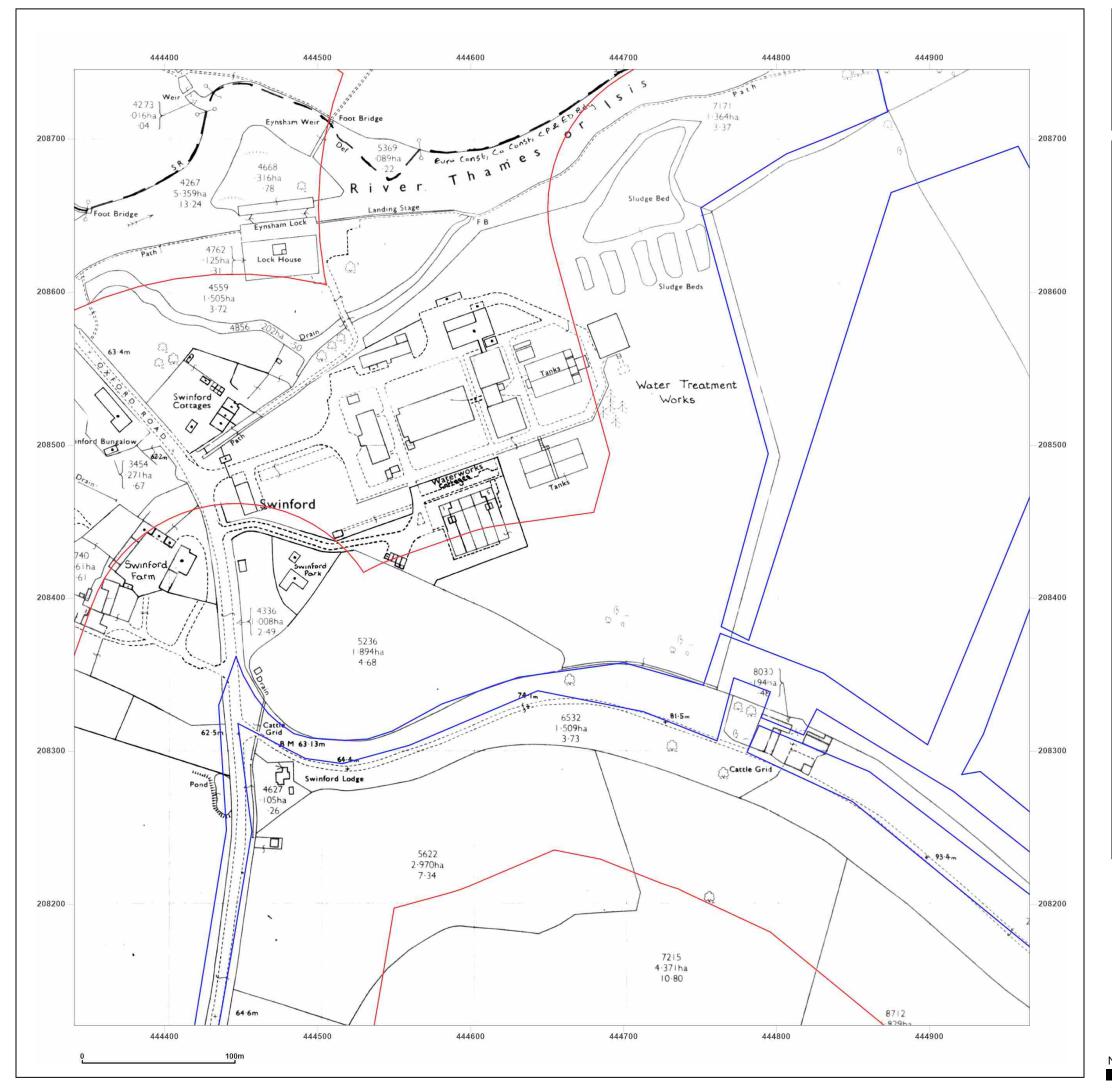




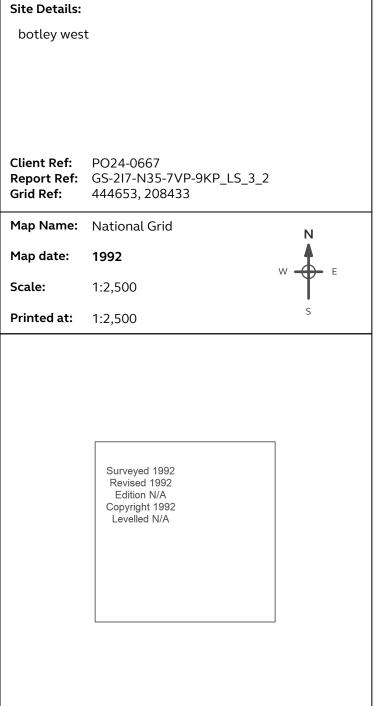
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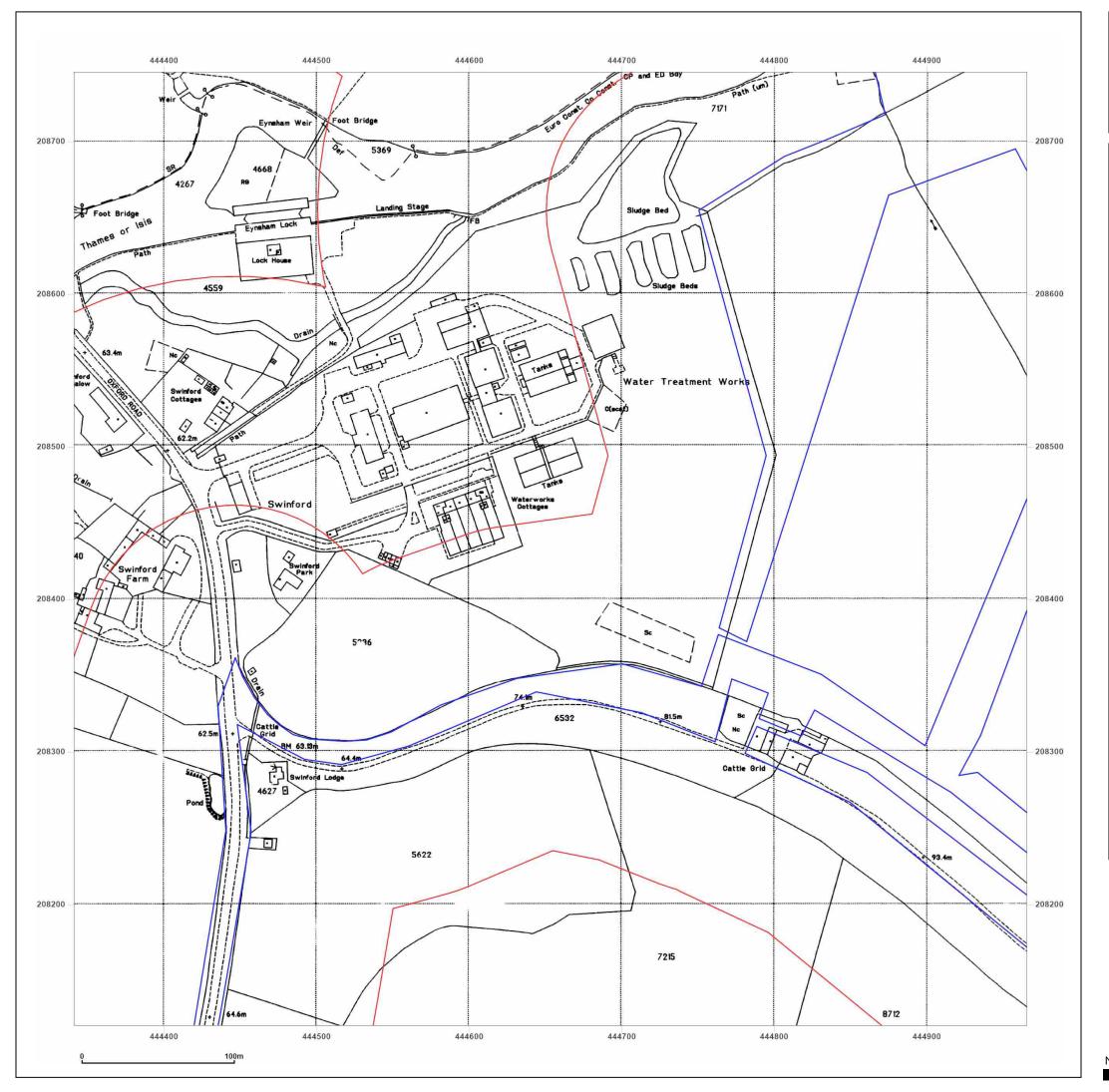




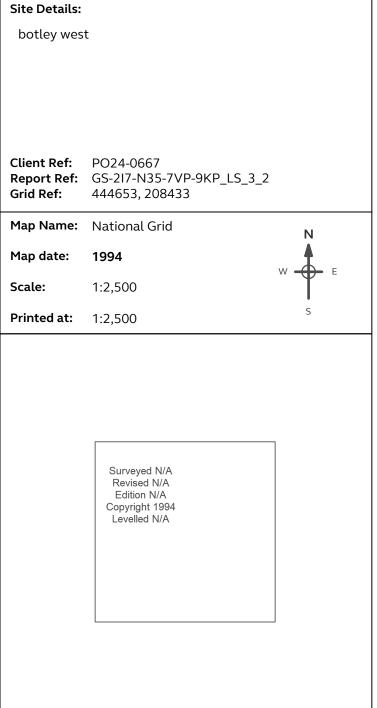


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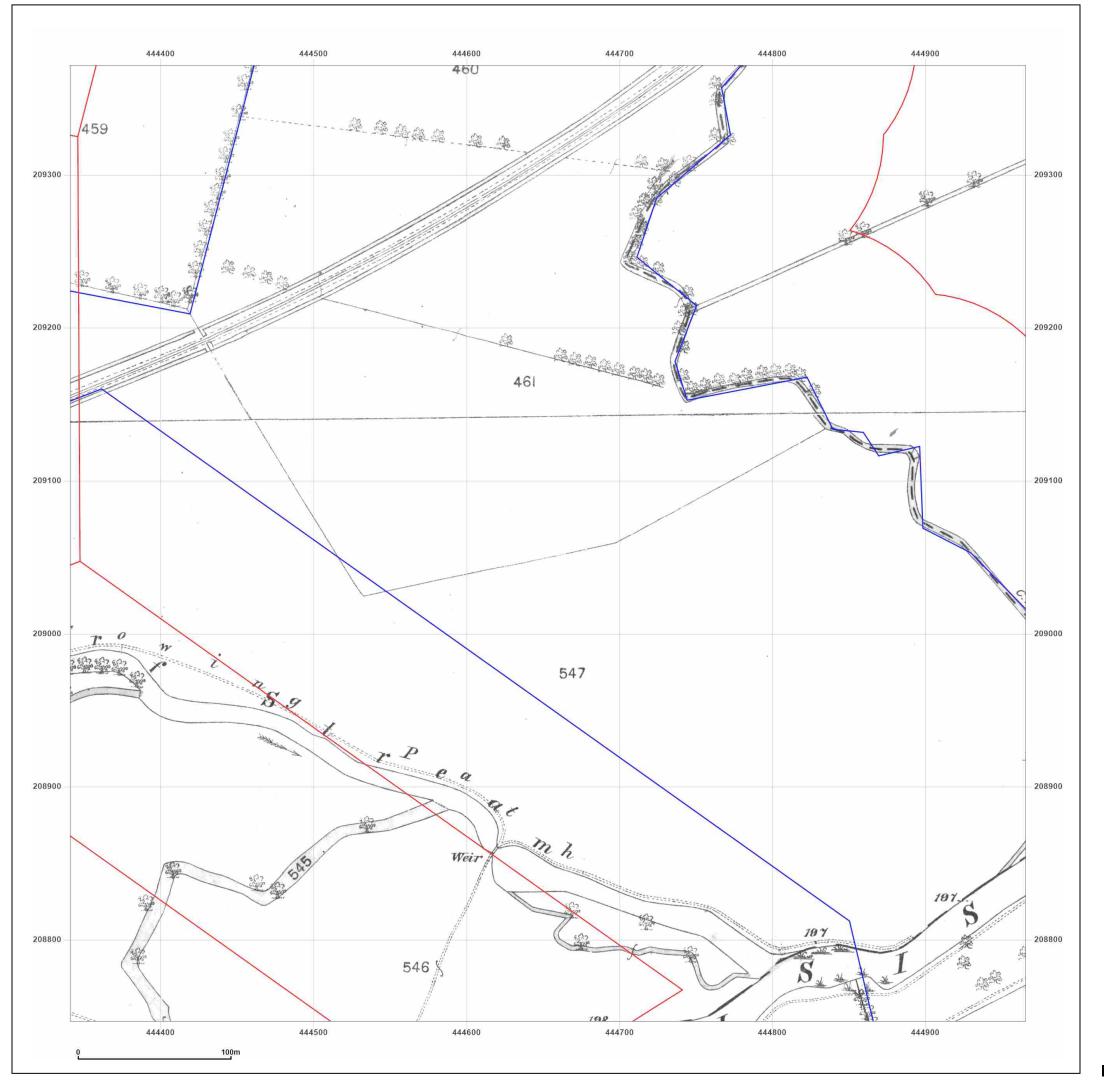




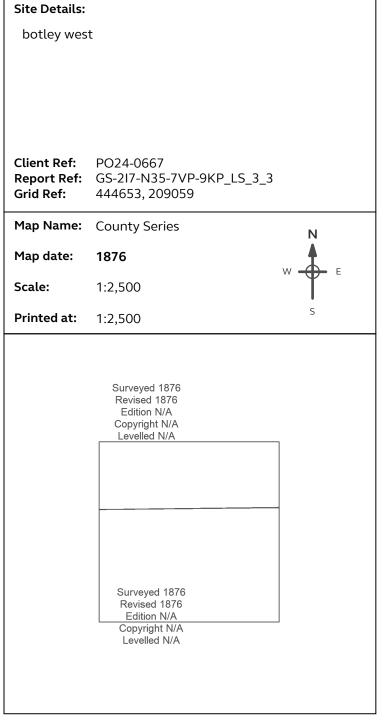


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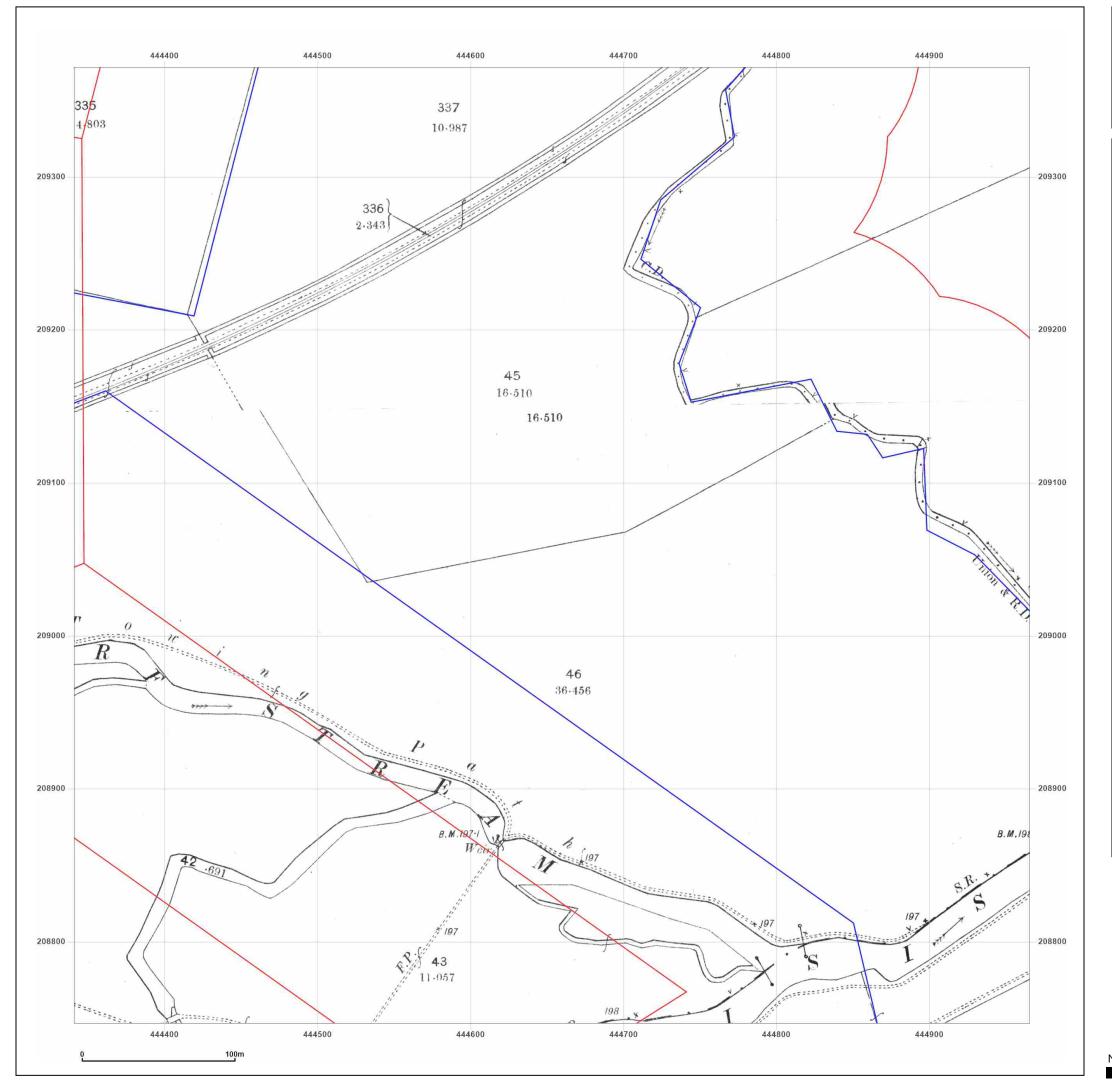




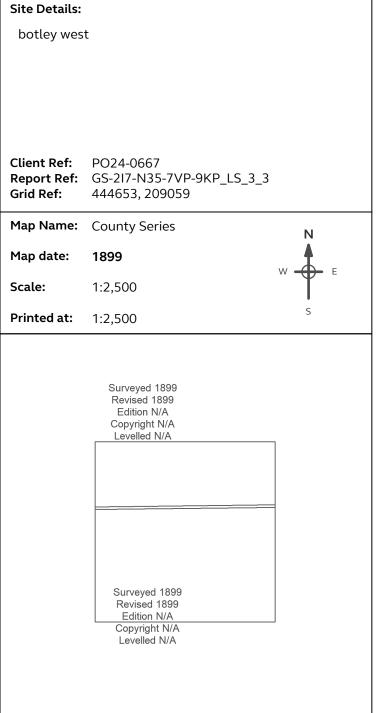


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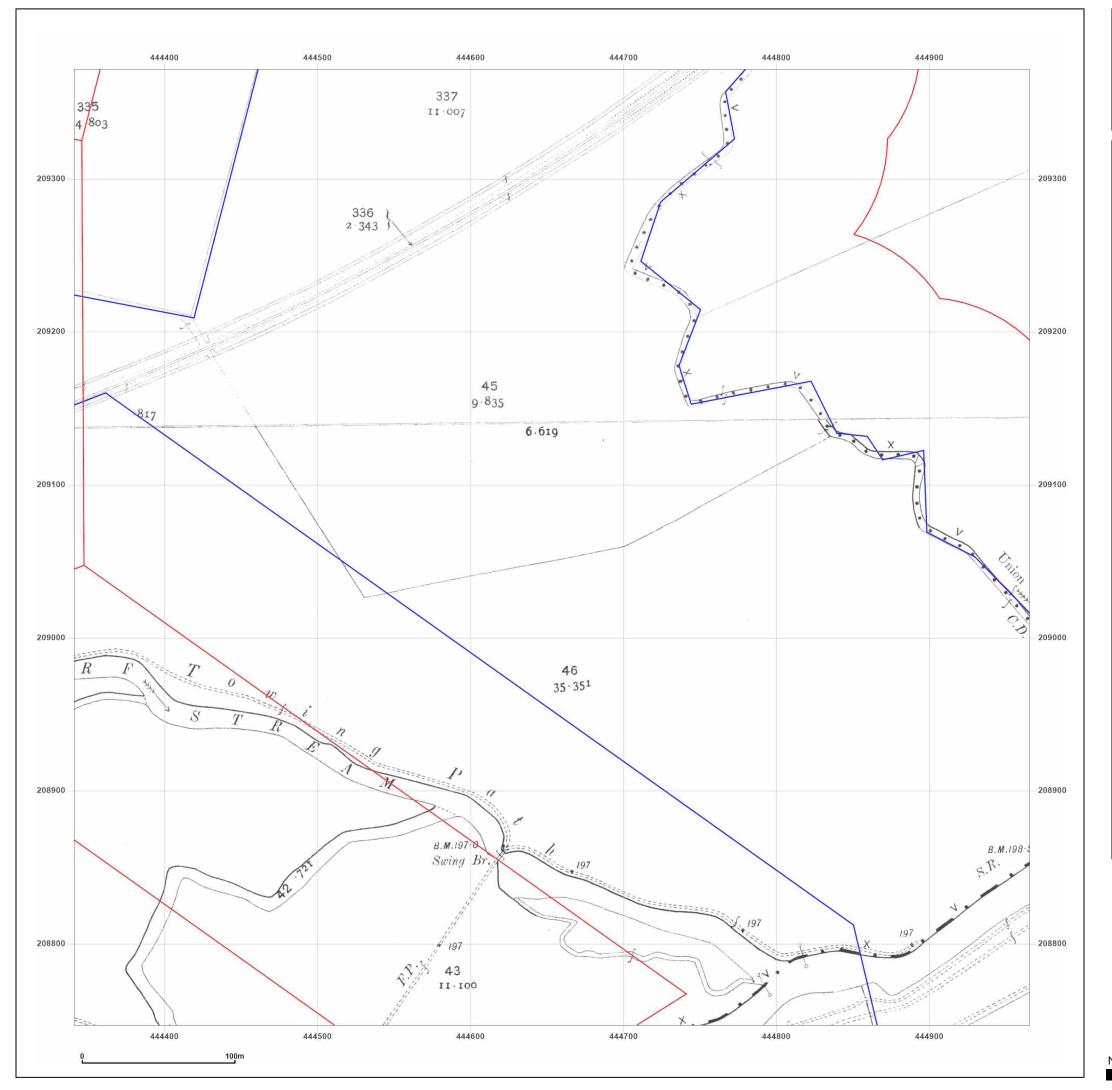




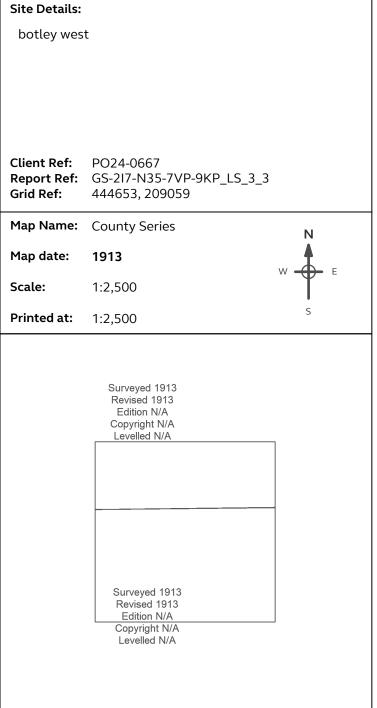


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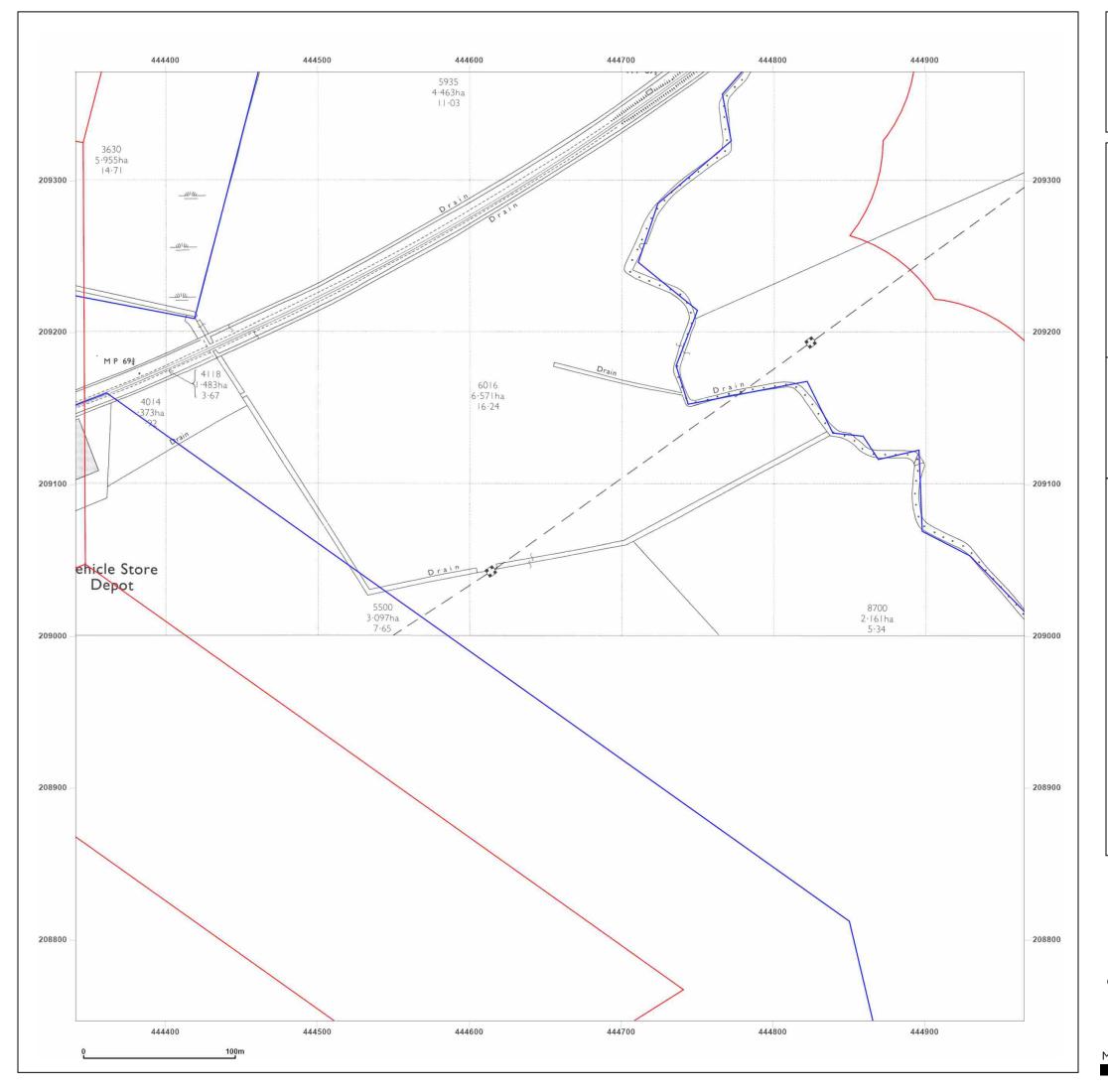






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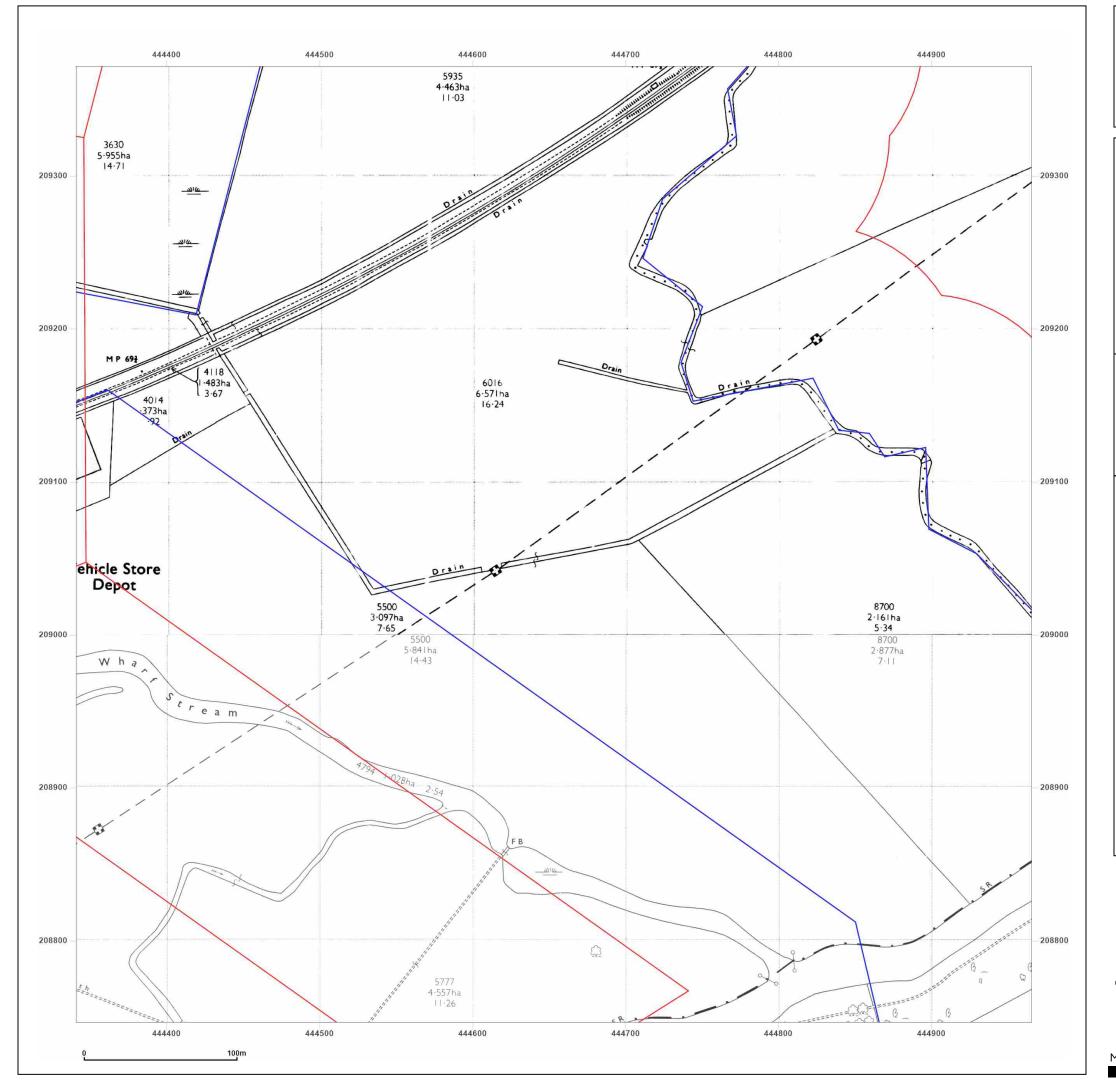
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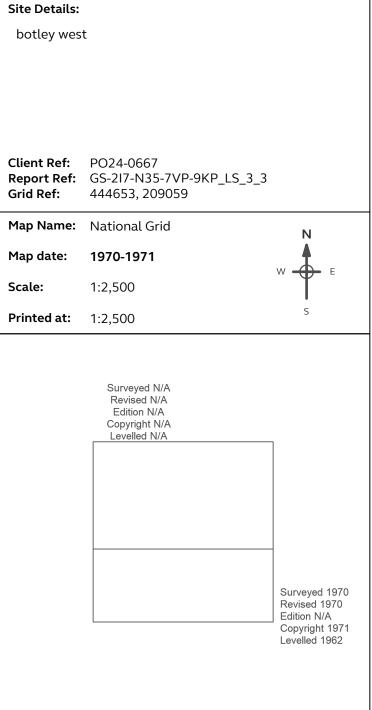
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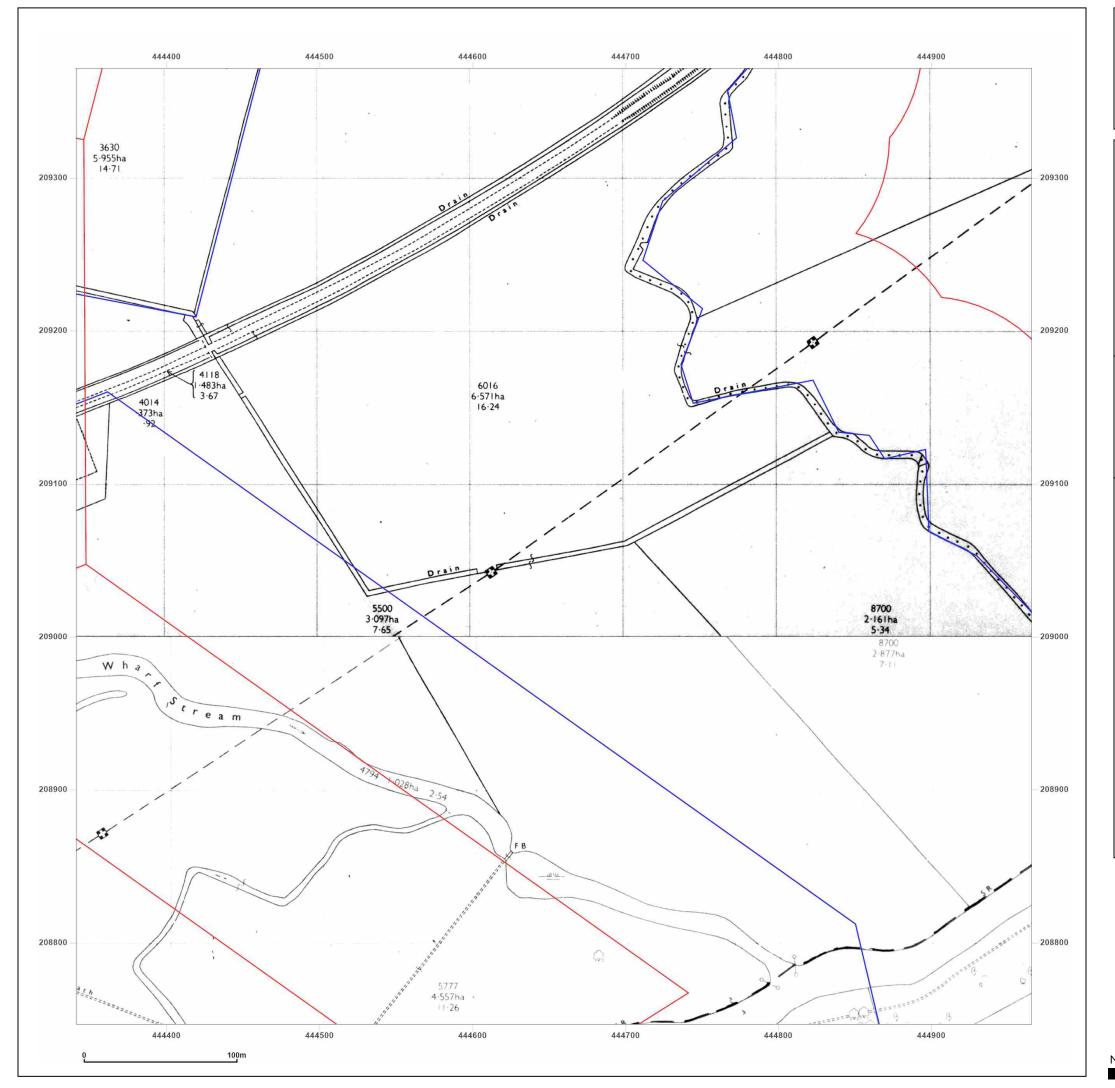




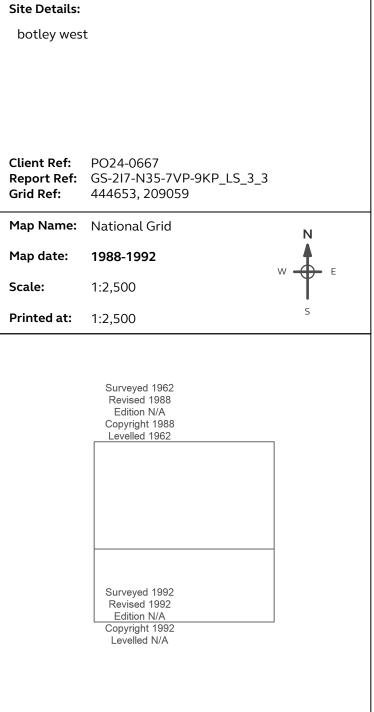


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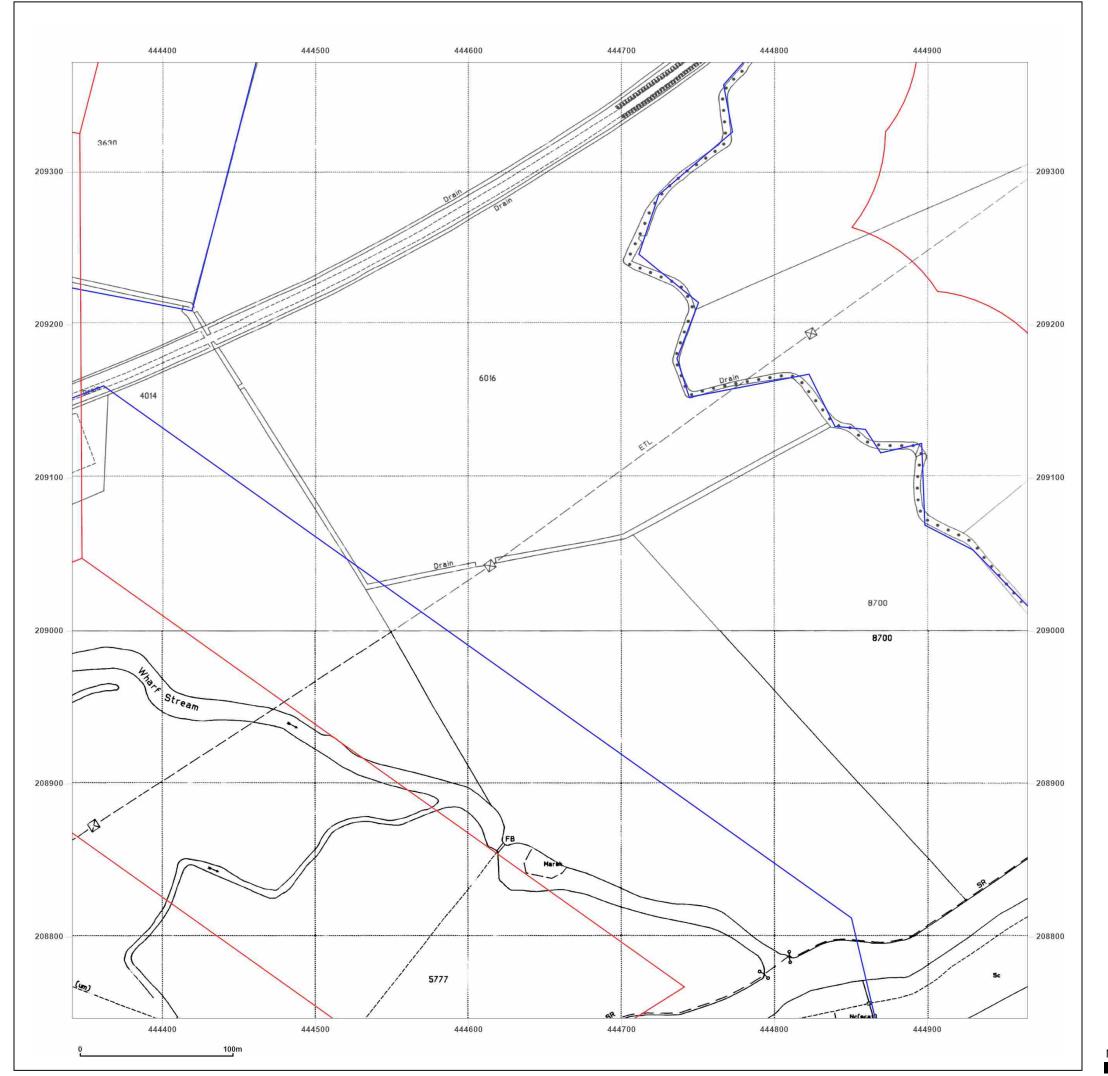






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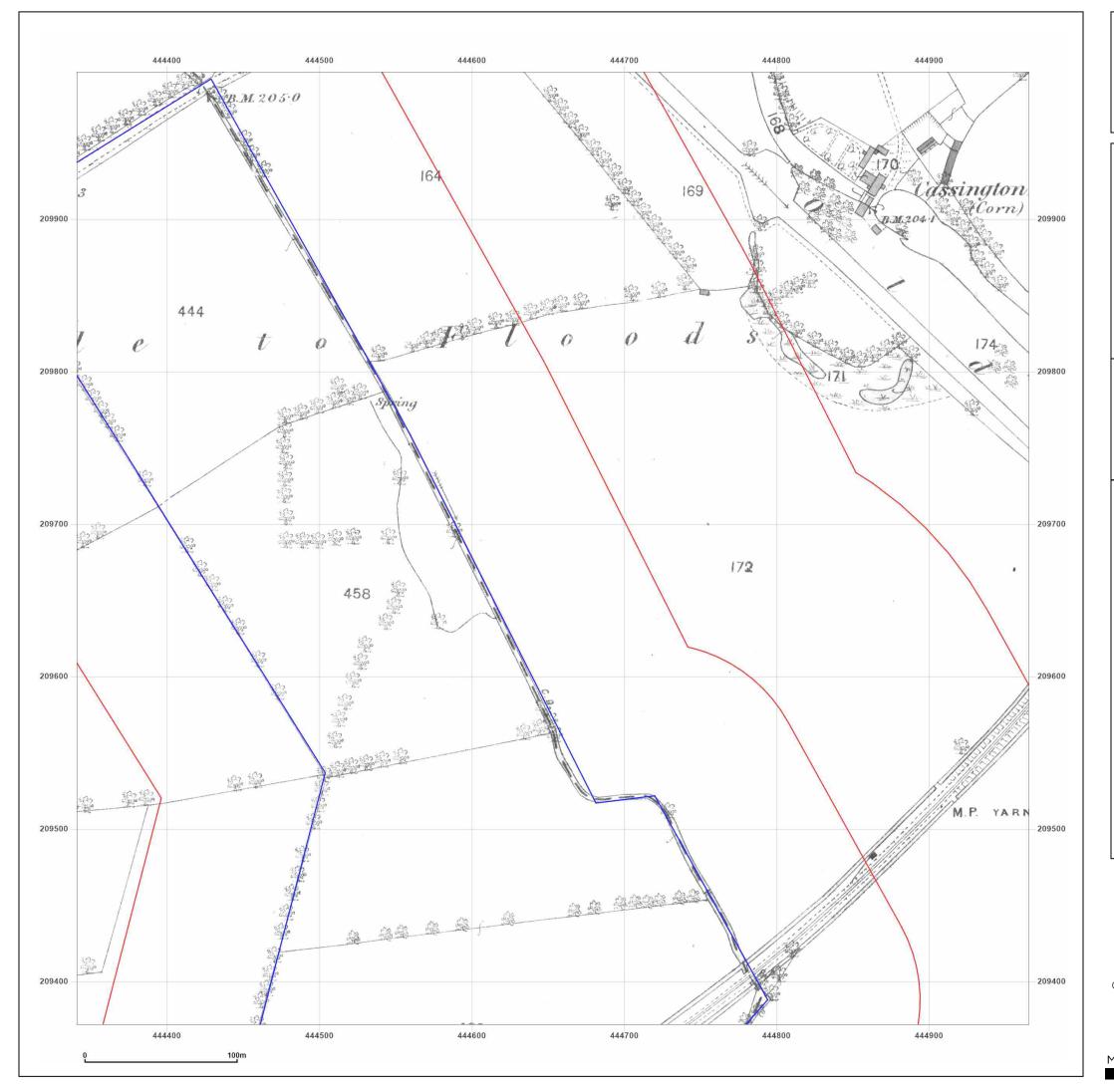


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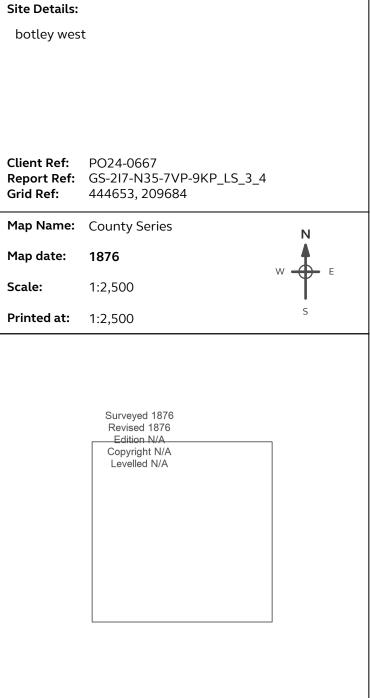


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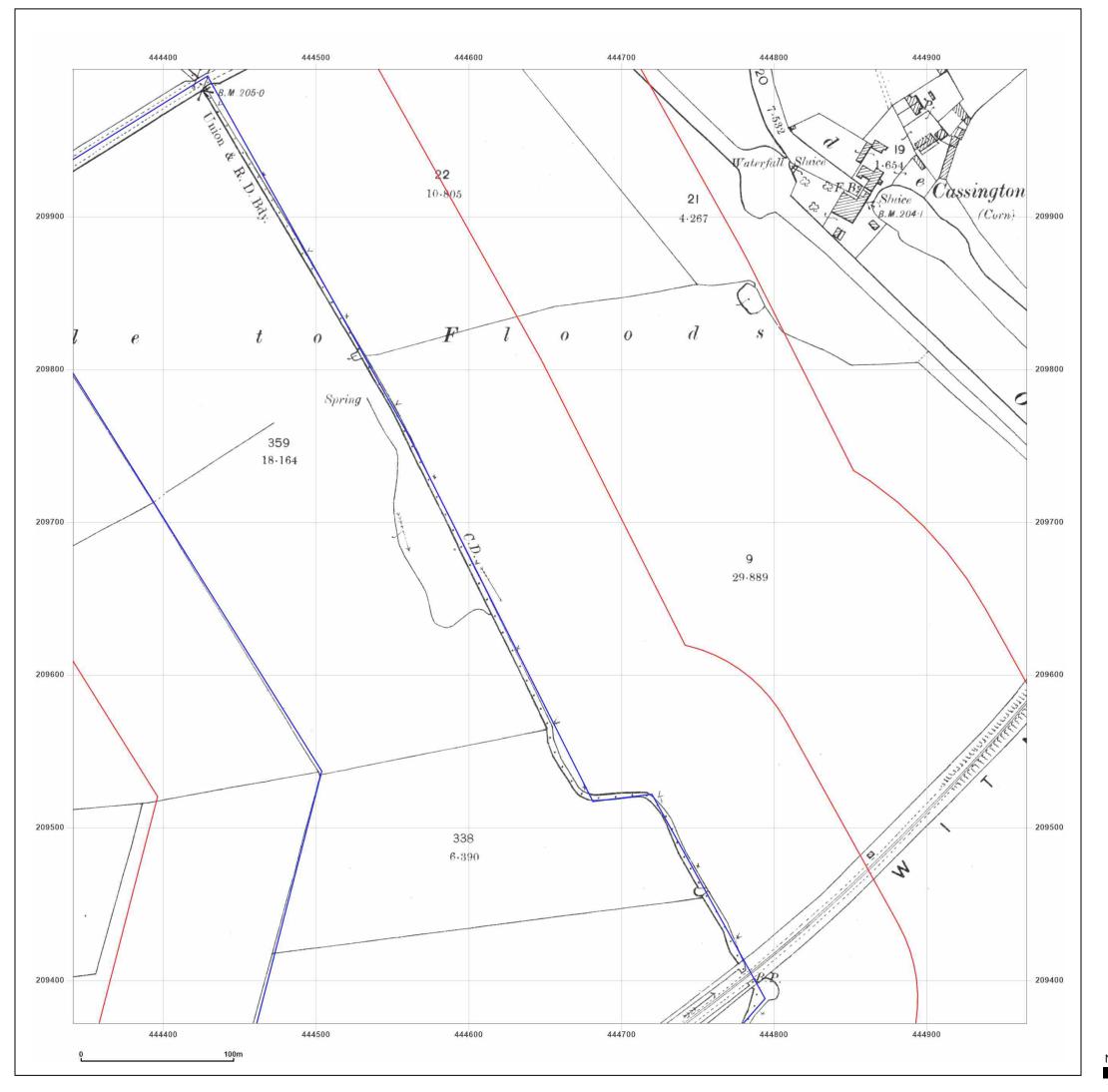




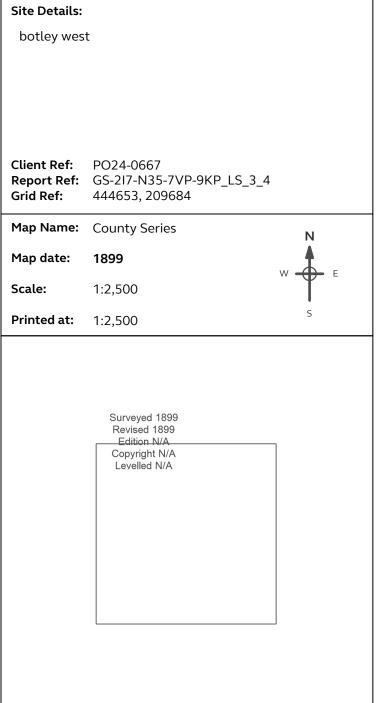


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