Tween Bridge Solar Farm

Environmental Statement
Appendix 9.1: Phase 1 Ground Conditions Desk Study reports for Land Parcels A to E
Part 1

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

APFP Regulation 5(2)(a)

Document Reference: 6.3.9.1

August 2025

Revision 1



Pegasus Group

Tween Bridge Solar Farm – Areas A and C

Phase 1 Desk Study

12081-R02(01)

RSK GEOSCIENCES

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RSK GENERAL NOTES

Project No.: 12081

Title: Phase 1 Desk Study: Tween Bridge Solar Farm – Areas A and C, Thorne , South Yorkshire, DN8 5SF

Client: Pegasus Group

Date: August 2025

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Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by RSK for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

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1 EXECUTIVE SUMMARY

Commissioning and purpose of assessment	RSK Environment Limited (RSK) was commissioned by Pegasus Group to carry out a Phase 1 Desk Study of the land at Tween Bridge, Thorne, South Yorkshire DN8 5SF, at approximate grid reference 471579 413695. The overall aim of the project was to assess geo-environmental and geotechnical constraints to the proposed development to inform the Ground Conditions element of an Environmental Impact Assessment (EIA).
DESK-BASED ASSESSMENT	
Site description and proposed development	The site spans 1,026 hectares of agricultural land, intersected by an extensive drainage network. The Tween Bridge Wind Farm occupies the eastern portion of Area A, while the Stainforth and Keadby Canal runs between Areas A and C. The proposed development is for a ground mounted solar photovoltaic electricity generating scheme covering approximately 1300 hectares over six 'areas' labelled Area A to Area E. This report presents information relating to Areas A and C of the development.
History of site and surrounding area	The site has historically been extensively drained, with a network of north-south drainage ditches, supporting its long-standing agricultural use. While historical maps do not confirm direct peat excavation, evidence suggests historic peat workings, particularly within Area A, where tramway sidings recorded between 1906 and 1948 indicate transport operations. By the 1890s, landscape modifications related to warping activities were documented, with subsequent developments including the Tween Bridge Wind Farm, operational since 2014. Potential on-site sources of contamination include made ground associated with numerous farmsteads across Areas A and C, the use and storage of chemicals, potential fill material linked to historic ponds, former tramway sidings, an unidentified tank in eastern Area A, and proximity to an active railway line adjacent to the Stainforth and Keadby Canal. Potentially contaminative activities in the surrounding area include made ground from the development and demolition of collieries and brickworks northwest of Area A, mine shafts at Thorne Colliery, refuse heap deposits to the north of Area A, unidentified tanks positioned west and north, additional tramway sidings east of Area A, and a historic sewage pumping station to the northwest.
Previous site investigation (SI) reports	A review of previous site investigations includes the Tween Bridge Wind Farm: Site Investigation Report (Donaldson Associates Ltd, 2009), which assessed subsoil and rock conditions to inform the design and construction of foundation bases for wind turbines and associated infrastructure.

Geology and environmental setting	In Area A (West), deposits primarily include glaciolacustrine clays and sands from the Hemingbrough Formation, with fluvioglacial sand and gravel at depth. In Area A (East), warp soils, reworked peat, and alluvium dominate the upper strata, transitioning into sandy deposits at greater depths. Area C (West) contains alluvium and blown sand, with underlying laminated silty clays and sand horizons from the Hemingbrough Formation. Area C (East) presents blown sand, laminated clays, and peat, with deeper deposits of consolidated sand and gravel. The bedrock geology consists of Sherwood Sandstone Group beneath Area A, transitioning to Chester Formation sandstone and red marl in Area C. Environmental receptors identified comprise: • Groundwater within alluvium and Sutton Sand Formation classified as a secondary A aquifer. Sherwood Sandstone Group and Chester Formation sandstone classified as Principal Aquifers. • Surface water within the multiple drainage ditches onsite and Stainforth and Keadby Canal located between Areas A and C. • The site is located near several designated sensitive land uses, including a Special Area of Conservation (SAC), Special Protection Area (SPA), Site of Special Scientific Interest (SSSI), and National Nature Reserve (NNR), adjacent to Area A.
Geotechnical constraints assessment	• Made ground i.e., fill material anticipated to be present on site (within isolated locations associated with historical ponds). • Made ground present offsite (waste material associated with refuse heaps located north of Area A). • Worked peat deposits (condition and stability remain uncertain at this stage). • Unknown extent of existing buried services. • Highly compressible strata anticipated in areas of peat and soft alluvium clay of which may affect ground engineering and foundation design and construction of substation compounds. • Silt-rich soils such as glaciolacustrine deposits and warp material susceptible to rapid loss of strength in wet conditions of which may affect ground engineering and foundation design of larger structures. • High groundwater tables are unlikely to impact temporary or permanent works in well-drained areas of the site however, they may pose a consideration in peatland zones. • Potential made ground present in isolated areas of the site may be susceptible to differential settlement, which could impact ground engineering, foundation design, and construction stability.
Initial conceptual site model (CSM) and preliminary risk assessment (PRA)	Potentially complete contaminant linkages identified with a risk estimate of moderate to low or above include: • Moderate/Low: On-site made ground, usage of agricultural chemicals, unspecified tank and tramway land – Surface water within drainage ditches and Stainforth and Keadby Canal – Migration via runoff through drainage Uncertainties and data gaps have been identified in the CSM at desk study stage and should be considered in the design of future intrusive investigation if proposed.
The information given in this summary is necessarily incomplete and is provided for initial briefing purposes only. The summary must not be used as a substitute for the full text of the report.	

2 INTRODUCTION

2.1 Commissioning

RSK Environment Limited (RSK) were engaged by Pegasus Group, herein referred to as the 'Client', to carry out a phase 1 Desk Study at the land at Tween Bridge, Thorne, South Yorkshire DN8 5SF.

The proposed development is for a ground mounted solar photovoltaic electricity generating scheme covering approximately 1300 hectares over six land parcels labelled Area A to Area E. This report presents information relating to Areas A and C of the development.

The works were undertaken by means of RSK fee proposal reference 12081 TL01 (01) dated 19 March 2025 including RSK Standard Terms and Conditions which forms the appointment between ourselves and the Client.

References in this report to 'we', 'us', or 'our' shall mean RSK Geosciences a trading name of RSK Environment Limited (company no.SC115530) at registered address 65 Sussex Street, Glasgow, G41 1DX.

The site location is provided in **Figure 1** and the area boundary to which this report refers is presented in **Figure 2**.

The report should be read and used in accordance with the limitations and constraints identified in the report text, and at **Appendix A – Service Constraints**.

2.2 Objectives

The site is being considered for development for industrial use as a solar farm.

The objective of the work is:

- To identify contamination and geotechnical constraints to the proposed development.
- To develop a baseline assessment of contamination and geotechnical data to support the Ground Condition elements of an Environmental Impact Assessment (EIA).

2.3 Scope of works

The scope of works has been developed in accordance with relevant British Standards and authoritative technical guidance as referenced through the report. The assessment of the contamination status of the site is in line with the technical approach presented in Land Contamination Risk Management (LCRM) (Environment Agency, 2023) and in general accordance with BS 10175: 2011 + A2 2017 (BSI, 2017). It is also compliant with relevant planning policy and guidance, i.e. national planning frameworks and policies.

The scope of works for the assessment has included the following:

- Obtain and review all historical, local authority, geological, permitting and other statutory records for the site via the purchase of a Groundsure site report.

- Review and summarise the most salient points from these records into a factual account of site conditions such that an appreciation of the sites history, environmental setting and geological characteristics can be obtained.
- Where available, review and briefly summarise any ground investigation information for the site.
- Collate a preliminary conceptual model of the site within which geo-environmental and geotechnical risks are considered and rated in accordance with the EA LCRM methodology.
- Recommendations for further investigations, if required.
- Produce factual and interpretive Preliminary Risk Assessment Report (this report).

2.4 Existing reports

The following reports detailing previous works at the site were made available for review:

- Donaldson Associates Ltd, Tween Bridge Wind Farm: Site Investigation Report, No. 1087, June 2009.

Pertinent information from this report has been used throughout this report.

2.5 Sustainability considerations

One of RSK's guiding principles is 'promoting the concept of sustainability in all that we do'. The RSK Group Second Nature 2030 Sustainability Strategy (RSK, 2023) confirms our commitment to embedding sustainability throughout our business and creating lasting positive impact for our planet and its people by delivering sustainability in all that we do.

This is supported by RSK Geosciences' Sustainability Policy, which sets our aspiration to provide industry-leading site assessment services to our clients to achieve more sustainable and climate resilient development and to support circular economy, decarbonisation and nature-based solutions. We also recognise that we have a responsibility to reduce our own business-related emissions. In this way our business activities are aligned with and contribute to meeting several of the UN Sustainable Development Goals (SDGs), as well as supporting pathways to net zero and circular economy.

Sustainability considerations have therefore been taken into account during the design, planning and implementation stages of the project as described in this report. Our approach prioritises sustainability by integrating Sustainable Management Practices (SMPs) across the project lifecycle, to reduce our project-related emissions and help our client achieve more sustainable outcomes for their projects. SMPs were originally published by CL:AIRE (CL:AIRE, 2021a) and further developed by RSK Geosciences as an in-house tool. Further detail is provided in **Appendix B**.

Where applicable, consideration has been made throughout this report to align the recommendations with circular economy, sustainable development and climate resilience.

2.6 Limitations

This report is subject to the RSK service constraints given in **Appendix A** and limitations that may be described below and throughout this document.

This report was prepared in accordance with good practice guidance and available datasets at the time of issue. Consideration should be considered in the light of changes in legislation, statutory requirements, or industry practices subsequent to the date of issue.

The opinions expressed in this report, and the comments and recommendations given, are based on the information obtained from the desk assessment.

The study aims to principally identify and assess the potential risks and liabilities associated with contamination of the ground, on and in the vicinity of the site. While this includes consideration of current operations and housekeeping on the site, the report does not constitute a comprehensive environmental audit of the site, as covered under ISO 14001.

Although asbestos may not have been encountered as part of these works, asbestos could be present in soil in discrete areas and may be encountered in future ground investigation.

A detailed survey of invasive plant species is outside the scope of this investigation therefore detailed comments with regards to such species have been omitted from this report.

The comments given in this report and the opinions expressed are primarily based on third party data and investigations, while RSK have undertaken a review of the information provided RSK cannot be held liable for the quality of the data provided. There may be conditions pertaining to the site that have not been disclosed by the investigations and therefore could not be taken into account.

3 SITE DETAILS

3.1 Site location

Site location details are presented in **Table 1** and a site location plan is provided on **Figure 1**.

Table 1 Site location details

Site name	Tween Bridge Solar Farm
Full site address and Post code	Thorne, South Yorkshire, DN8 5SF
National Grid reference (centre of site)	473282, 411225

3.2 Site description

The area boundary plan is shown on **Figure 2**. The site is irregular in shape and lies east of Thorne and west of Crowle. It is bounded to the north by the Humberhead Peatlands National Nature Reserve and to the south by Hatfield Chase, an extensive area of agricultural land.

Covering approximately 1,026 hectares, the site - comprising Areas A and C - is predominantly agricultural land interspersed with isolated farmsteads.

Area A is occupied by Tween Bridge Moors, South or Sands Moors and Nun Moors, while the Tween Bridge Wind Farm occupies its eastern portion.

Area C is occupied primarily by agricultural fields associated with the farmsteads of Clay Banks, Sand Hills and Grove House. The fields are interspersed by several drainage ditches.

The land lies at 1 - 4 meters Above Ordnance Datum (AOD) and is extensively drained by numerous ditches. The Stainforth and Keadby Canal (Sheffield and South Yorkshire Navigation), running east-west, centrally intercepts Areas A and C, accompanied by the Thorne South railway line, which runs parallel to the canal. The canal is flanked by the North and South Soak Drains, while the site itself is traversed by a network of roads and dikes.

3.3 Surrounding land uses

The site is located in Doncaster, within a predominantly agricultural setting. Immediate surrounding land uses are described in **Table 2**.

Table 2 Surrounding land uses

North	Humberhead Peatlands National Nature Reserve boarders the site to the north
East	Crowle town is situated 3.2 km east of the site, separated by agricultural fields and the Old River Don
South	Hatfield Chase borders the site to the south with the A18 forming a portion of the sites southern boundary
West	Thorne town borders the site to the west

3.4 Proposed development plans

The proposed development comprises the construction, operation, maintenance and decommissioning of a ground mounted solar farm with an intended design capacity of over 50 MWp (megawatts peak), and a battery energy storage facility with an export/import connection to the National Grid.

The scheme is likely to include the following key works, the indicative locations of some of which are shown on RWE Figure 2.2: Indicative Operational Layout Plan (Rev 1) dated June 2025 included in **Appendix C**.

- Solar PV modules and associated mounting structures.
- On-site supporting equipment including inverters, transformers and switchgear.
- A battery energy storage system (BESS), indicatively split into four separate compounds. They would each be located next to one of the seven on-site 33 kv/132 kV substations.
- The solar PV modules and BESS would be connected to one of the seven on-site 33 kV/132 kV substation compounds. These are necessary to step up the voltage of the electricity delivered by the solar PV modules from 33 kV to 132 kV for onward transmission to the RWE on-site 400 kV Substation.
- Works to establish environmental and ecological mitigation and enhancement measures.
- Upgrades to existing tracks/roads and creation of new access tracks and site entrances.
- Directional drilling for cable works for various crossing including: drainage ditches, canal, railway, and the M180.
- Culverts and upgrades to existing culverts.
- Fencing and Security Measures.
- Permissive pathways and bird viewing gallery.
- Temporary development during the construction phase of the Scheme including construction compounds, parking and temporary access roadways to facilitate access to all parts of the site.

No details of the proposed ground levels have been provided therefore for the purpose of this report it has been assumed that the current levels will remain unchanged.

4 DESK-BASED ASSESSMENT

The desk-based assessment was designed to generally meet the objectives of a preliminary or Phase 1 investigation, as defined by BS 10175:2011+A2:2017 (BSI, 2017) and BS 5930:2015, and is set in context of a Tier 1 preliminary risk assessment as defined in LCRM.

The "vicinity" of the site for the purposes of this report is defined as locations situated within an approximate 250 m radius of the site, although certain sources and/or sensitive targets further than 250 m distance from the site may also have been considered.

4.1 Site history

4.1.1 Historical development record

The development history of the site and surrounding area based upon assessment of historical plans and records is detailed in **Table 3** and **Table 4**, respectively.

The historical maps reviewed are shown within the environmental database report in **Appendix D**.

Table 3 Summary of historical development on site

Date from	Date to	Historical Land Use (on-site)	Area of site
1853	Present	Tween Bridge Moors, South or Sand Moors and Nun Moors	Encompasses Area A
1853	Present	Agricultural fields	Encompasses Area C
1853	Present	The Stainforth and Keadby Canal	Divides Area A and C
1853	Present	North Soak Drain and South Soak Drain	Flanking the Stainforth and Keadby Canal
1853	Present	Multiple Dykes i.e., Boating Dyke, Top Boating Dyke	Intercept Area A
1853	1968	Elmhurst Plantation	Northern portion of Area A
1853	Present	Whittaker's Plantations	Northeast portion of Area A
1886	Present	Multiple drains i.e., Leonard's Drain, Thorne Waste Drain, Old Godnow Drain (previously named Brierholme Carr Drain), Bletchers Drain, Boating Dyke Drain	Across Areas A and C
1891	Present	Railway Line	North adjacent to Stainforth and Keady Canal dividing Areas A and C

Date from	Date to	Historical Land Use (on-site)	Area of site
1891	1908	Embanked pond	Eastern portion of Area A
1893	Present	Multiple cottages and farmsteads i.e., Double Bridges Farm, Grove House Farm, Hains Farm, Jaque's Farm	Along the boundary of Area C
1904	1955	Pond	Northern portion of Area A
1906	1948	Tramway sidings	Eastern portion of Area A
1948	1948	Unspecified ground workings	Southeast portion of Area C
1961	1961	Tank associated with Limberlost Farm	Eastern portion of Area A
1962	Present	Water Pumping Station associated with Grove House Farm	Southwest portion of Area C
2001	Present	Pumping Station	Northern portion of Area A
2014	Present	Tween Bridge Wind Farm	Central and eastern portion of Area A

Table 4 Summary of historical development in the vicinity of the site

Date from	Date to	Historical Land Use (off-site)	Distance (m) and orientation
1893	Present	Water Pumping Station associated with Hains Farm	Circa 45 mm S of Area C
1948	1948	Tramway sidings	<250 m E of Area A
1930	1983	Multiple collieries including Thorne Colliery	Approx 875 m NW of Area A
1961	1996	Unspecified multiple tanks	<250 m W to N of Area A
1969	1983	Refuse heaps	25-30 m N of Area A
1930	1949	Sewage Pumping Station	Circa 225 m NW of Area A

Since the 1850s, Areas A and C have been drained by parallel north-south ditches, which discharge into the Stainforth and Keadby Canal (Sheffield and South Yorkshire Navigation). The canal is bordered by High Bridge Road, the North and South Soak Drains, and further south, the Brierholme Carr Drain, renamed Old Godnow Drain in 1968, which divides Areas A and C.

Although historical maps show no direct evidence of peat extraction, the eastern section of Area A is mapped as peat, with tramway sidings recorded between 1906 and 1948, likely used for peat transportation. Early land patterns feature narrow, linear fields and southwest-to-northeast drainage ditches, indicative of historical peat workings.

Within Area A, Moor Owners Road and Boating Dyke intersect centrally, while the Top Boating Dyke, crossing northwest to southeast, deviates from the general alignment of fields, tracks, and drainage systems.

By the 1890s, Whittaker's Plantations contained a large rectangular embanked pond, possibly linked to warping activities. By 1948, the landscape had undergone modifications, likely due to warping processes, alongside the development of Thorne Waste Drain and Waste Road. Limberlost Farm, constructed by 1968, was recorded as having an unspecified tank at the site; however, following the farm's demolition between 2009 and 2013, the condition of the tank remains unknown. Tween Bridge Wind Farm was constructed in 2011 and fully operational by 2014.

The BGS Memoir confirms that Warp is artificial improved soil created by historical 'floodwarping', or occasionally 'cartwarping', undertaken between the 1700's to mid 20th Century. It used the suspended silt and clay in rivers and reversal of flow during high tides. An area is embanked and a warping drain cut from it to the nearest river. Sluice gates at the river end of the drain are opened at high tide, allowing sediment-rich water to flood in and deposit silt. The water is let back slowly into the river at low tide.

Each flooding creates c. 2 mm of deposit, and up to 300 mm could be left in a single year. The thickest known floodwarp is 1.5 m. The soil deposited is light, silty and well-drained. It is recognisable by laminations below plough level, pre-existing soil beneath, traces of old embankments, differences in field levels or documentary evidence. In the northern portion of Area A, Elmhirst Plantation and Cottage were replaced by the current pumping station c. 2001, while another water pumping station, associated with Grove House Farm, was constructed in the 1960s in the southwestern section of Area C.

The key potential contaminative land uses identified from the available historical maps include:

- On-Site:
    - Possible made ground associated with the numerous farmsteads dispersed across Areas A and C.
    - Use and storage of chemicals across farmsteads situated within Areas A and C.
    - Potential fill material linked to historic ponds within Area A and unspecified ground workings in Area C.
    - Former tramway sidings located in the eastern part of Area A.
    - An unidentified tank situated in the eastern sector of Area A.
    - Active railway line adjacent to Stainforth and Keadby Canal.
- Off-Site:
    - Made ground resulting from the development and demolition of multiple collieries and brickworks to the northwest of Area A.
    - Two mine shafts located at Thorne Colliery north of Area A.

- Refuse heap deposits located to the north of Area A.
- Presence of unidentified tanks positioned west and north of Area A.
- Additional tramway sidings located east of Area A.
- A historic sewage pumping station positioned to the northwest of Area A.

It's important to note that only features within 250 m of the site have been considered in this assessment, with the exception of the two mine shafts located at Thorne Colliery. These have been included in the coal mining section of the report due to their historical mining legacy.

4.1.2 Unexploded ordnance

A review of publicly available UXO risk maps indicates that Areas A and C are located in an area with low potential for wartime ordnance (Zetica, 2025). However, it is important to note two World War II airfields were situated outside the site's boundary. RAF Lindholme, approximately four miles south of Thorne, was used for bomber command training and radar operations before later becoming HM Prison Lindholme in 1985. RAD Sandtoft, a satellite airfield to Lindholme, closed in 1945 and is now used for vehicle storage, a flying club and the Trolleybus Museum.

Although these airfields are some distance from the site, anecdotal reports suggest several WWII air crashes occurred in the vicinity, including a Lancaster bomber, though its exact location remains unclear. Heritage Environment Records indicate two possible crash sites west of Crowle (Area B), with accounts suggesting the wreckage sank into the peat.

Given these historical factors, a detailed UXO risk assessment is recommended prior to construction.

4.2 Information from environmental database report

Relevant environmental permits and incidents detailed within the environmental database report (see **Appendix D**) are summarised below in **Table 5**.

Table 5 Summary of environmental permits, landfills and incidents

Data type	Entries on-site	Entries <250 m from site	Entries >250 m from site of relevance	Details
Agency and hydrological				
Environmental permits – incorporating Environmental Permitting Regulations (EPR) and/or Pollution Prevention and Control (PPC) permits; former Integrated Pollution Controls (IPC), Local Authority Pollution Control (LAPC)	0	0	0	-
Enforcement and prohibition notices	0	0	0	-

Data type	Entries on-site	Entries <250 m from site	Entries >250 m from site of relevance	Details
Pollution incidents to controlled waters, Prosecutions relating to controlled waters, Substantiated pollution incident register, Water Industry Act referrals	0	8	10	Offsite <250 m: 12 m S, incident identification: 1164622 dated 03/10/2013. Pollutant not identified. Water impact: Cat 2 (significant) Offsite <250 m: 183 m SW, incident identification: 564073 dated 14/02/2008. Pollutant: General biodegradable materials. Water impact: Cat 3 (significant)
Discharge consents	2	7	11	On-site: Moors Swing Bridge House, Thorne DN8 5SD, permit number: T/83/07769/T version 1. Effluent type: Trade discharges- site drainage. Receiving water: Trib of Thorne Waste Drain. Effective date: 25/06/1979. Revocation date: 15/06/2015. Status: surrendered under EPR 2010
Registered radioactive substances	0	0	0	-
Landfill and waste				
Active landfills	0	0	0	-
Historic/closed landfills	0	0	2	Offsite >250 m: 346 m W, Long Meadows Farm, Thorne. Inert waste type. License issue: 20/07/1983, licence surrender: 08/12/1993. Operator unidentified, license holder: L E White. Offsite >250 m: 354 m NW, Brickworks, Thorne. Waste type, license issue and license surrender all unidentified. License

Data type	Entries on-site	Entries <250 m from site	Entries >250 m from site of relevance	Details
				holder: Thorne Rural District Council.
Other waste management licences	0	0	2	Offsite >250 m: 496 m NW, 4 Rings Spares Ltd, Thorne DN8 4HU. EV facility (25000 tonnes). EPR license number: FOU001. Annual tonnage: 2499. Issue date: 04/11/2004, surrendered date not identified. Status: Issued.
Potentially in-filled land (pit, quarry, pond, marsh, river, stream, dock etc)	0	0	0	-
Hazardous substances/industrial land uses				
Control of Major Accident Hazards (COMAH) sites	1	0	0	On-site: H Burtwistle & Sons, Thorne DN8 5RY. Operational status: Historical NIHHS site.
Explosives sites, Notification of Installations Handling Hazardous Substances (NIHHS), Planning hazardous substance consents/enforcements	0	0	0	-
Contaminated land Part 2A register entries and notices	0	0	0	-
Fuel station entries	0	1	1	Offsite <250 m: 148 m NW, Marshlands Road, Doncaster DN8 4SB. LPG not applicable. Status: Obsolete. Offsite >250 m: 492 m NW, Marshlands Road, Doncaster DN8 4SZ. LPG not applicable. Status: Obsolete.

4.2.1 Contemporary trade directory entries

Active potentially contaminative land uses identified in the contemporary trade directory and with potential to affect the site are identified as:

- Tween Bridge Moor Turbines located on-site.

- L & J Price Transport (Distribution and Haulage Company) located 25 m south.

Inactive potentially contaminative land uses identified in the contemporary trade directory includes:

- Unspecified factory located c.85 m west.
- Brick Works located 225 – 250 m northwest.

4.3 Information from regulatory authorities

4.3.1 Planning records

Planning records held by the Local Authority Planning Department pertaining to the site and relevant to the current assessment are summarised in **Table 6**.

Table 6 Planning information

Year	Details and application reference no.	Part of site
1994	Ref No: 94/2170/P Erection of 11,000 volt overhead line (on single wooden poles using three aluminium conductors) Planning permission: GRANTED	Between Tween Bridge Moors and Thorne Colliery (Area A)
2004	04/0314 Erection of 28 wind turbines Planning permission: GRANTED	Tween Bridge Wind Farm (Area A)

4.3.2 Site services

Obtaining a full set of service plans was outside the scope of this report.

Buried utility services and their backfill can represent a constraint to development and act as preferential migration pathways for gas, vapour or groundwater towards a receptor.

4.4 Summary of previous reports

A summary of pertinent information from previous reports pertaining to the site is included below in **Table 7**.

Relevant information relating to the identified ground and groundwater conditions has not been included within the table below but has been incorporated into the relevant parts of Sections 4.5 - geology and 4.6 – mining and quarrying.

Table 7 Summary of previous reports

Report Details	1. **Tween Bridge Wind Farm: Factual Site Investigation Report, Donaldson Associates Ltd, June 2009**
Site coverage	The Site Investigation Report includes the northeastern and eastern portion of Area A.

Summary scope of works	To assess the sub-soils and rock conditions across the site to allow design and construction of foundation bases for proposed wind turbines and associated infrastructure (carried out in two phases between February and April 2009). The investigation comprised cable percussive boreholes with rotary follow-on, cone penetration testing, Mostap Sampling and California Bearing Ratio (CBR) tests. Laboratory testing for geotechnical and chemical parameters, as well as gas monitoring was also carried out. The report presents factual data only. Gas monitoring and chemical laboratory data has not been included (undertaken at a later date by WYG and report not provided to RSK).
Does the client have reliance upon the report?	No
Key factual findings	The site is underlain by the Triassic Sherwood Sandstone Group, overlain by Mercia Mudstone at the far eastern boundary. Sherwood Sandstone is 350 – 400 m thick, sitting above Permian Marls, Magnesian Limestone, and Carboniferous Coal Measures, with the Highfield High Hazel coal seam at ~800 m depth. Rockhead was encountered between 11.20 m and 16.50 m below ground level. The maximum depth drilled was 24.30 m bgl. The eastern area contains alluvial silt and clay, while the western section features interbedded sand, silt, and clay (25 Foot Drift of Vale of York), with peat also expected. Drift thickness varies between 12 – 16 m. Groundwater was encountered during drilling at depths between 2.25 m and 8.20 m bgl. pH levels were generally neutral to slightly alkaline (7.1 – 8.0), except for one acidic sand sample (pH 5.3 at 3.60 m). Sulphate levels ranged from 0.02–0.26 g/L. CBR results ranged between 1.9% and 3.8% across the site.

4.5 Site geology

4.5.1 Anticipated geological sequence

Published records (British Geological Survey, 2025) for the area, previous site investigation reports and available historical borehole logs indicate the geology of the site to be characterised by the succession recorded in **Table 8**.

There are 13 publicly available BGS historical boreholes located on or within 250 m of the site, a selection of which are presented in **Appendix E**.

Table 8 Site geology

Strata	Strata	Description	Depth (m)
Area A -West (Tween Bridge Moors) *(based on 2009 investigation for the Wind Farm)*	Topsoil	Topsoil	GL to 0.3 – 0.5
	Hemingbrough Glaciolacustrine Formation	Soft occasionally firm orange brown and grey sandy clay or occasionally loose clayey silty sand	0.3 – 0.5 to 1.4 – 2.1
	Hemingbrough Glaciolacustrine Formation	Soft to firm or firm thinly laminated brown sandy clay or silt	1.4 – 2.1 to 3.8 – 8.8
	Fluvioglacial sand and gravel or Hemingbrough Formation	Medium dense red brown silty fine to medium sand	3.8 – 8.8 to 10.0 – 11.0
	Sherwood Sandstone Group	Weak, occasionally very weak red brown medium to coarse grained sandstone, becoming weak to medium strong. With occasional very weak to weak thinly laminated mudstone	Below 11.0 – 14.5+
Area A – East (Tween Bridge Wind Farm East) *(based on very sparse BGS boreholes in the extreme southern area)*	Topsoil/Subsoil	Made Ground/Warp soils? (loamy and clayey)	GL to 1.0 – 1.25
	Reworked Peat/Alluvium	Soft to firm organic very silty odorous clay	1.0 – 1.25
	Flandrian Alluvium/ Hemingbrough Formation	Very soft or firm brown silty sandy clay with organic fragments	3.4 to 4.5 – 5.2
	Hemingbrough/ Concealed Sand?	Loose rapidly medium dense brown sand	4.5 – 5.2 to 6.8
	Concealed Sand and Gravel/ Weathered Bedrock	Dense red brown slightly silty sand with occasional gravel	6.8 to 9.6 – 10.0+
Area C – West (Clay Bank) *(based on four relevant boreholes)*	Topsoil/Subsoil	Sandy and loamy	GL to 0.3 – 0.9
	Alluvium	Soft to firm or firm brown and grey mottled and peaty sandy clay	0.3 – 0.9 to 1.0 – 4.0
	Blown/Sutton Sand Formation	Loose grey silty sand	1.0 – 2.6 to 2.4 – 3.3
	Hemingbrough Formation	Soft to firm laminated brown clay with silt partings and loose sand horizons	2.3 – 4.0 to 6.5 – 7.6
	Hemingbrough/ Concealed Sand and Gravel?	Mixed grey silty clay and sand with some gravel becoming medium dense silty sand	4.5 – 7.6 to 10.6 – 16.0

Strata	Strata	Description	Depth (m)
	Chester Formation	Red Marl and sandstone	Below 10 – 16.0+
Area C – East (Bletchers Drain and new area "Area C East" *(based on borehole information)*	Topsoil/Subsoil	Loamy and clayey	GL to 0.3 – 0.8
	Blown sand/Sutton Sand Formation	Medium dense grey brown silty sand (thin in south, thickening northwards)	0.3 – 0.8 to 0.5 - 4.0
	Hemingbrough Formation	Soft to firm brown laminated silty clay with silt lenses	0.5 to 3.5
	Hemingbrough Formation	Very soft brown peat	0.5 – 1.6
	Concealed Sand and Gravel	Medium dense brown sand and gravel	3.5 to 6.5
	Chester Formation	Sandstone	Below 6.5
Relevant information sources: BGS Geoindex ☒ BGS borehole logs ☒ Previous SI reports ☒			

4.5.2 Peat

Thick peat deposits occur to the south on Hatfield Moor (south of Area C) and to the north on Thorne Moors (north of Area A), which were exploited for centuries by block cutting, and more recently by surface milling. Peat working has also taken place at Crowle Moor (east of Area A).

The range of near surface (i.e. at less than 1 – 3 m depth) peat thickness therefore anticipated within Areas A and C is from 0.5 - 1.5 m, but more typically less than 0.6 m to 1 m. Boreholes on the Tween Bridge Wind Farm encountered peat at thicknesses ranging between 1.0 – 1.6 m however peat has not been proven on the Tween Bridge Moors (Area A). Similarly, peat has not been proven at Area C but a former river channel at Bletcher's Drain could indicate that peaty soils are present locally.

The deposits are the remains of lowland raised bog, or raised mire fenland, extending beyond the designated conservation moorland. The deposits lie both within and beneath the Alluvium, in areas flanking the deep incised river courses, in particular due to poor drainage and waterlogging in the late Flandrian period.

The BGS reports that Thorne Moor was formerly more extensive before peat cutting in the west and southwest, and floodwarping northeast, east and south. Original estimated thicknesses of 6 m on Thorne Moor have been significantly reduced by workings to around 3 m, and some areas are flooded. BGS state that peat cropping out between Crowle and Sandtoft has not been proven to more than 0.7 m depth, despite a significant lateral extent. Locally thick Alluvium on Hatfield Chase to the south of Area C, is peaty at depth, however BGS state there is little evidence of true concealed peat. This may apply to parts of Area A where peat is mapped by BGS or Natural England.

Irregular peat outcrops between Thorne Moors and Hatfield Chase, are reported to thin out against the underlying Hemingbrough silts and clays or Blown Sutton Sand, or pass under floodwarp or

natural Alluvium of the old River Don. There has been compression of the original peat thickness where floodwarp deposits overlie it.

Peat stability will therefore require consideration during detailed design at any specific locations where intrusive investigation proves a sufficient peat thickness would be intersected by the proposed construction (e.g. new accesses, structures).

4.5.3 Radon

A radon 'Affected Area' is where 1% or more homes are estimated to be above the radon Action Level of 200 Bq m^{-3}. Although the radon data used in production of the radon atlas comes from measurements in homes, the maps indicate the likely extent of the local radon hazard and is thus applied in all buildings.

The environmental database report indicates that the site is not located within a radon 'Affected Area' and therefore radon protection measures are not considered to be necessary in the construction of non-domestic buildings.

4.6 Mining and quarrying

A review has been conducted to identify past and present mining, quarrying, landfilling, and land reclamation activities within 1 km of the site. The initial site appraisal is based on information from the Mining Remediation Authority Interactive Viewer (UK Coalfield areas) and a commercial environmental database report detailing non-coal mining activities.

4.6.1 Coal mining area

The site, encompassing Areas A and C, is located within the Mining Remediation Coal Reporting Area underlain by Coal Measures bedrock, with the Kent Thin Coal Seam mapped at approximately 700 m bgl (Geological Survey of England and Wales, New Series 1:63 360/1:50 000). However, due to the depth of the coal seam and the site not falling within the Development High Risk Area, it's likely there is no recorded coal mining legacy hazards at shallow depths that could pose risks to public safety or surface land stability.

It's important to note that two former shafts at Thorne Colliery, located approximately 875 m northwest of the site, were operational between 1925 and 1958 and have since undergone remediation. The shafts and colliery site were redeveloped as the Thorne Solar Farm in 2015; Google imagery indicates the former shafts are surrounded by solar arrays. As these shafts are beyond an influential distance, they are not considered a risk to the site, and there is no requirement under the current planning framework to complete a Coal Mining Risk Assessment (CMRA).

4.6.2 Areas of other (rock or mineral) mining

There is localised evidence of small scale near surface workings where extractable deposits occur at the surface. Details of aggregate workings, ponds and peat workings have been summarised in **Table 9**.

Table 9 Summary of Non-Coal Mining and Quarrying

Location	Surface Working Type	Comment
Area C: at Double Bridges SW boundary	Pond	1904 – 2023 maps
Area A: South of Limberlost	(Warping) Pond	1891 – 1908 maps
Area A: on NE boundary near Pumping Station	Pond	1908 – 1955 maps
Area A: Off Site to N	Peat Moss Litter Workings	Historical now ceased

4.7 Hydrogeology

A summary of the hydrogeological setting of the site, with respect to the anticipated geological sequence set out in Section 4.5 is presented below in **Table 10**.

Table 10 Summary of hydrogeological setting

Condition	Description
Aquifer characteristics	The Sutton Sand Formation and permeable alluvial deposits are classified as Secondary A Aquifers, while the peat and laminated silt/clay deposits are considered Unproductive. At depth, the Sherwood Sandstone Group and Chester Formation form a Principal Bedrock Aquifer. Groundwater vulnerability within the Secondary Superficial Aquifers varies, with medium to high vulnerability observed in the southern portion of Area A and the central to eastern section of Area C. In contrast, the majority of Area A and the western portion of Area C exhibit low groundwater vulnerability, particularly where clays and silts dominate the geological profile.
Depth to groundwater and flow	Based on BGS logs and previous site investigations, groundwater levels are expected to range between 2.25 m and 8.80 m below ground level (bgl) in Area A, and between 1.83 m and 4.57 m bgl in Area C. However, in locations near drainage ditches, groundwater may be maintained at greater depths due to local drainage influences. Overall, groundwater flow is anticipated to flow west to east across the site, following a rectilinear drainage pattern, with limited or negligible local flow variations.
Rising groundwater levels	Areas within the site are expected to contain peat, as indicated by the BGS map viewer and borehole records from the Tween Bridge Wind Farm site investigation. Groundwater levels in these areas may fluctuate due to several influencing factors, including increased precipitation, land management practices such as blocking drainage ditches or rewetting initiatives, and natural hydrological changes that alter flow patterns into the peatland.
Groundwater recharge/ attenuation	As the site is largely unsurfaced, water is expected to drain directly into the ground. The high organic content and fibrous nature of peat naturally slows water movement, functioning as a buffer that regulates flow, stabilises groundwater levels, and helps mitigate downstream flooding.
Historical implications for hydrogeology	A review of GeoIndex 2025 data confirms the presence of boreholes across the study site, particularly within Area C. Dewatering activities associated with these boreholes can disrupt natural groundwater flow, potentially lowering the water table, increasing the risk of subsidence, and altering surface water drainage patterns, which may contribute to localised flooding in surrounding areas.

Condition	Description
	The site has also been shaped by historical peat workings, an extensive drainage network, and active water pumping stations. Peat extraction can reduce groundwater retention, leading to lower water tables and a heightened risk of subsidence. The numerous drainage ditches, designed to manage water flow, facilitate rapid surface runoff, limiting groundwater recharge and influencing local hydraulic gradients. However, pumping stations play a critical role in regulating water levels, maintaining surface stability, and preventing localised flooding or prolonged saturation.
Licensed groundwater abstractions	The environmental database report identifies three active licensed groundwater abstractions within a 1 km radius of the site, all designated for process water use. One licensed groundwater abstraction is recorded on-site, situated at Grove Farm in the western portion of Area C, previously used for general farming and domestic purposes. However, this abstraction is classified as historical and is no longer active.
Source protection zones	Information available in the Envirocheck report/MAGIC website indicates that Area C in its entirety, along with the central and southern portion of Area A, falls within Zone 3 (Total Catchment) of the groundwater Source Protection Zone (SPZ). The designation is associated with an abstraction borehole at Sandtoft Road Pumping Station, located over 2 km southwest of the site. Details of the SPZ designation are contained in **Appendix D**.

4.8 Hydrology

A summary of the hydrology within the site area is summarised in **Table 11**.

Table 11 Summary of hydrology in site area

Condition	Description
Surface watercourses/ features	Mapping indicates numerous drainage ditches forming a rectilinear grid of interconnected water channels across Areas A and C. Key watercourses include: • Stainforth and Keadby Canal (Sheffield and South Yorkshire Navigation) - dissecting Areas A and C, with North and South Soak Drains running parallel on either side. • Boating Dyke Drain—partially defining Area C's southern boundary, flowing offsite into Old Dun/Don Drain, North Engine Drain, and Wood Carr Drain. • Pond at Double Bridges Farm—situated in the western portion of Area C.
Surface water abstractions	The environmental database report identifies 30 active licensed surface water abstractions within a 1 km radius of the site. Of these, four are located on-site, directly utilised for spray irrigation from North Soak Drain, Boating Dyke Drain, Bletchers Drain, and an Unnamed Drain.
Site drainage	This low-lying district has undergone continuous artificial modifications to its natural drainage system for centuries, as widely documented in historical records. The landscape is characterised by an extensive network of drainage ditches, forming a rectilinear grid of interconnected water channels. Over time, significant alterations, including the excavation of additional drainage ditches and dykes and localised field drainage enhancements, have been necessary to manage flooding, regulate surface water runoff, and support agricultural productivity, both historically and in modern land use.

Condition	Description
Preliminary flood risk assessment	According to EA Flood Map for Planning data, the site is classified as Flood Zone 3 for river and sea flooding, indicating a high annual probability of flooding, exceeding 3.3%. While a flood risk assessment is not included in this report, considerations for long-term flood risks are addressed in Section 4.10.

4.9 Sensitive land uses

Table 12 provides a summary of any environmentally sensitive areas identified within 250 m of the site based on the environmental database report.

Table 12 Environmentally sensitive areas

Feature	Present within 250 m of site?	Details	Likely pathways from site?
International designations – Ramsar wetland, Special Area of Conservation (SAC), Special Protection Area (SPA)	Yes	**SAC**: Thorne Moor, adjacent east to Area A (active and degraded raised bogs). **SPA**: Thorn and Hatfield Moors, adjacent east to Area A (European nightjar habitat).	Yes Potential for surface water runoff, drainage system connectivity and groundwater movement
National designations – Site of Special Scientific Interest (SSSI), National Nature Reserve (NNR), ancient woodland	Yes	**SSSI**: Thorne, Crowle and Goole Moors, adjacent east to Area A. **NNR**: Humberland Peatlands, adjacent east of Area A.	Yes Potential for surface water runoff, drainage system connectivity and groundwater movement
Local designations – Local Nature Reserve, Site of Importance for Nature Conservation (SINC)	No	-	-
Nearest high sensitivity development	Yes	Residential housing within Thorne Town, 30 m west from the site	Yes Residential housing in relatively close proximity to the site

4.10 Future climate change impacts

In accordance with planning policies and guidance (e.g. LCRM), there is a need to consider the effects of future climate change and associated extreme weather events (EWE) on the CSM and identified potential contaminant linkages, along with the implications for risk assessment and remediation. Further background details are provided in **Appendix B**.

Table 13 contains a preliminary assessment of future projected climate change impacts that may be relevant to the site. As all parts of the UK are projected to experience temperature rises so this is not included in the table. Cascading effects of temperature rise are considered via changes in precipitation, flood, heatwaves and drought. This is based on a 'reasonable worse case' scenario. Where considered necessary, qualitative consideration of climate change is provided for specific linkages in the risk assessment and as an uncertainty in the CSM.

Extreme weather has historically occurred and will always occur in the UK. Extreme weather can include extremes of precipitation, heat, drought and cold. As a result of climate change extreme is anticipated to become more intense and frequent across the UK.

RSK considers that sites that are likely to be more susceptible to climate change effects to be those located on or near to the coast and at risk of coastal flooding, or erosion and those located within the flood plain.

Table 13 Potentially relevant future projected climate change and EWE site impacts

Climate impact risk factors	Relevant to site?	Discussion
Projected significant changes in annual infiltration rates (+/- 5%)	Y	• Ground cover (the majority of the site is covered by soft standing) • Network of drainage ditches transecting across the site
Future flood risk areas due to river and/or coastal flooding	Y	The nearest waterbody is Stainforth and Keadby Canal dissecting Areas A and C. The yearly chance of flooding based on current climate is assessed as high. The yearly chance of flooding projected between 2036 and 2069 as a result of climate change is assessed to be high. The overall long term flood risk is anticipated to increase as a result of climate change.
Future surface water flood risk (i.e. due to inundation of drainage systems)	Y	The yearly chance of flooding based on current climate is assessed as very low. The yearly chance of flooding projected between 2040 and 2060 as a result of climate change is assessed to be very low. The overall long term flood risk is anticipated to stay the same as a result of climate change.

5 SITE RECONNAISSANCE FINDINGS

A site reconnaissance survey has not been undertaken by RSK, as a previous survey was conducted by Intégrale in early November 2022. Using desk based information, it is evident that the majority of the site has remained unchanged since that time. Additionally, time constraints associated with the current project scope limited the feasibility of conducting an updated survey.

6 PRELIMINARY GEOTECHNICAL CONSTRAINTS

6.1 Design class

BS EN 1997-1 defines three different Geotechnical Categories that structures may fall into, which are summarised as follows:

- Category 1: Small and relatively simple structures for which it is possible to ensure that the fundamental requirements will be satisfied on the basis of experience and qualitative geotechnical investigations; with negligible risk.
- Category 2: Conventional types of structure and foundation with no exceptional risk or difficult ground or loading conditions.
- Category 3: Structures or part of structures, which fall outside limits of Geotechnical Categories 1 and 2. Examples include very large or unusual structures; structures involving abnormal risks, or unusual or exceptionally difficult ground or loading conditions; structures in highly seismic areas; structures in areas of probable site instability or persistent ground movements that require separate investigation or special measures.

Based on the information provided above on the proposed development and in view of the anticipated ground conditions, a Geotechnical Category of Category 1 has been assumed for the purposes of designing the geotechnical investigation. This should be reviewed at all stages of the investigation and revised where necessary.

6.2 Preliminary geotechnical hazards assessment

A summary of commonly occurring geotechnical hazards associated with the anticipated geology outlined in Section 4.5 above is given in **Table 14** together with an assessment of whether the site may be affected by each of the stated hazards.

Table 14 Summary of preliminary geotechnical risks that may affect site

Hazard category	Hazard status based on desk study findings and proposed development		Engineering considerations if hazard affects site
	Could be present and/or affect site	Unlikely to be present and/or affect site	
Sudden lateral changes in ground conditions	☐	☒	Unlikely to affect ground engineering and foundation design and construction
Shrinkable clay soils [1)]	☐	☒	Ground conditions low to medium plasticity resulting in the hazard rating being low

Hazard category	Hazard status based on desk study findings and proposed development		Engineering considerations if hazard affects site
	Could be present and/or affect site	Unlikely to be present and/or affect site	
Highly compressible and low bearing capacity soils, (including peat and soft clay)	☒	☐	Highly compressible strata anticipated in areas of peat and therefore may affect ground engineering and foundation design and construction
Silt-rich soils susceptible to rapid loss of strength in wet conditions [1)]	☒	☐	Glaciolacustrine deposits anticipated across the majority of Area A and presence of warp material may affect ground engineering and foundation design and construction
Running sand at and below water table	☐	☒	Sand anticipated near the Stainforth and Keadby Canal, where excavation and water management constraints may apply. However, these conditions are unlikely to affect ground engineering and foundation design and construction
Karstic dissolution features (including 'swallow holes' in Chalk terrain) [1)]	☐	☒	Chalk not encountered on site
Evaporite dissolution features and/or subsidence [1)]	☐	☒	Dissolution features are unlikely to be present on the site
Ground subject to or at risk from landslides [1)]	☐	☒	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered
Ground subject to peri-glacial valley cambering with gulls possibly present	☐	☒	Unlikely to affect ground engineering and foundation design and construction
Ground subject to or at risk from coastal or river erosion [1)]	☐	☒	Unlikely to require special protection/stabilisation measures
High groundwater table (including waterlogged ground) [1)]	☒	☐	High groundwater tables are unlikely to impact temporary or permanent works in well-drained areas of the site. However, they may pose a consideration in peatland zones, where water retention and seasonal fluctuations could influence ground conditions.
Rising groundwater table due to diminishing abstraction in urban areas [1)]	☐	☒	Unlikely to affect deep foundations, basements and tunnels

Hazard category	Hazard status based on desk study findings and proposed development		Engineering considerations if hazard affects site
	Could be present and/or affect site	Unlikely to be present and/or affect site	
Geological faults, fissures and break lines	☐	☒	Unlikely to affect ground engineering and foundation design and construction
Underground mining including shafts and adits (e.g. coal, mineral)	☐	☒	A deep coal seam is present beneath the site, with two mine shafts located 875 m north of Area A. However, these features are unlikely to necessitate further assessment or require special stabilisation measures.
Effects of extreme temperature (e.g. cold stores or brick kilns/furnaces)	☐	☒	Unlikely to affect ground engineering and foundation design and construction
Existing sub-structures (e.g. tunnels, foundations, basements, and adjacent sub-structures)	☐	☐	Unlikely to affect ground engineering and foundation design and construction
Filled and made ground (including embankments, infilled ponds and quarries)	☒	☐	Potential for historic ponds on site to have been filled which may affect ground engineering and foundation design and construction
Adverse ground chemistry (including expansive slags and weathering of sulphides to sulphates)	☐	☒	Unlikely to affect ground engineering and foundation design and construction
Site topography, including presence of steep slopes	☐	☒	Very low or negligible gradients and therefore its unlikely to affect ground engineering and foundation design and construction
Note: Seismicity is not included in the above table as this is not normally a design consideration in the UK. [1)] The potential for these geohazards to impact the site may be exacerbated by climate change related fluctuations in temperature and precipitation.			

7 INITIAL CONCEPTUAL SITE MODEL

In the UK land contamination is assessed using a risk-based approach taking account of the magnitude (severity of the hazard) and likelihood (probability) of occurrence. A 'receptor' is something that could be adversely affected by contamination (e.g. people, an ecological system, property or a water body). A 'pathway' is a route or means by which a receptor is or could be exposed to or affected by a contaminant. A 'contaminant source' is a hazard but it can only pose a risk to a receptor where a pathway is present.

The relationship between sources, pathways and receptors are referred to as a conceptual site model. A risk can only be realised where a contaminant source, pathway and receptor are all in place, referred to as a 'contaminant linkage'.

In line with LCRM (Environment Agency, 2023) and BS 10175: 2011 + A2 2017 (BSI, 2017), RSK has used information in the preceding sections to identify hazards (sources of contaminants), receptors that may be impacted and plausible linking pathways. Where all three are present this is termed a potentially complete contaminant linkage and a qualitative risk estimation is made.

The conceptual site model has been considered in context of the proposed development as understood at the time of writing this report. Should the site development proposals change, the CSM and the associated contaminant linkages identified may need to be revised.

7.1 Potential soil, soil vapour and groundwater linkages

7.1.1 Potential sources of contamination

Potential sources of soil and groundwater contamination identified from current activities and the history of the site and surrounding area are presented in **Table 15**.

Table 15 Potential sources of soil and groundwater contamination

Potential sources	Contaminants of concern
On-site	
Made ground (i.e. fill material associated with historic ponds and farmstead developments)	Unknown fill material but potentially including brick, concrete, rubble, ash and burnt debris and containing toxic and phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAHs), asbestos
Storage of oils/chemicals within farmsteads situated on-site	Lube oil, diesel, kerosene, chlorinated solvents, ammonium nitrate, lime, gypsum, herbicides and pesticides
Unspecified tank associated with Limberlost Farm	Petroleum hydrocarbons (petrol/diesel)
Active railway line and historic tramway sidings associated with past peat workings	Petroleum hydrocarbons, toxic and phytotoxic metals, inorganics, PAHs, asbestos
Off-site	
Made ground (associated with the refuse heaps to the north of Area A)	Unknown fill material but potentially including brick, ash and clinker and containing phytotoxic metals, inorganics, polycyclic aromatic hydrocarbons (PAH), asbestos

Potential sources	Contaminants of concern
Unspecified tanks (positioned west to north of Area A)	Petroleum hydrocarbons (petrol/diesel)
Tramway sidings (located north of Area C)	Petroleum hydrocarbons, toxic and phytotoxic metals, inorganics, PAHs, asbestos
Historic Sewage Pumping Station (northwest of Area A)	Heavy metals, microbial bacteria, polychlorinated biphenyls (PCBs), persistent organic pollutants (POPs), treatment chemicals

7.1.2 Sensitive receptors

The proposed future use of the site as a solar energy scheme, alongside the continued agricultural use of the surrounding land, has been considered in identifying potential sensitive receptors. Given the minimal ground disturbance required for the installation of solar panels, along with the shallow depth of service trenches, access tracks/roadways and areas designated for substations and battery storage, it is anticipated that the primary receptors potentially exposed to any contamination present in the soils on site, or migrating from adjacent land, include:

- Construction workers (during installation or maintenance, and eventually decommissioning).
- Groundwater in the secondary A superficial aquifers (Sutton Sand Formation and Alluvium).
- Groundwater in the Principal Bedrock Aquifer (Sherwood Sandstone Group and Chester Formation).
- Surface water within the drainage ditches and watercourses throughout the site.
- Solar scheme infrastructure (including solar array cabling throughout the site, substations and inverter stations at specific locations, battery energy storage system compound and building materials i.e., buried concrete and services).

7.1.3 Potential contaminant pathways

Exposure pathways applicable to human health receptors include:

- Direct ingestion, inhalation and dermal contact with soil and soil-derived dust.
- Vapour migration followed by outdoor inhalation.

Pathways applicable to environmental receptors include:

- Direct contact of foundations/services with contamination in soil and/or groundwater.
- Leaching from soil followed by migration in groundwater.
- Migration via run-off through drainage.
- Discharge to surface water.

7.2 Potential ground gas linkages

7.2.1 Ground gas generation potential

Potential ground gas sources identified for the site and surrounding are shown in **Table 16**.

Table 16 Potential ground gas sources (excludes mine gas)

Potential sources	Indicative ground gas generation potential (CIEH, 2008)	Additional information
On-site		
Natural soil strata with a low degradable organic content (alluvium and peat)	Low	Alluvium and peat suspected on site
Made ground (e.g. up to 5% organic material and no easily degradable waste).	Low	Made ground associated with development of farmsteads and infilled ponds. Composition of made ground is unknown.
Infilled ponds (early to mid-1900s)	Low	Eastern portion of Area A
Off-site		
Made ground with low degradable organic content (e.g. up to 5% organic material and no easily degradable waste).	Very low	Refuse heaps located north of Area A

Given the anticipated ground conditions set out above, potential sources of ground gas generation have been identified associated with the suspected alluvium, peat and infilled ponds (potential made ground) on site. While the potential for gas generation is classified as low, the composition and quality of the made ground and natural soil strata remains uncertain.

7.2.2 Sensitive receptors and ground gas linking pathways

Sensitive receptors identified at or in the vicinity of the site that could be affected by the potential ground gas sources identified above comprise:

- Construction/maintenance workers - migration and ingress of ground gases into confined spaces (i.e., substations, control rooms) followed by explosion/asphyxiation.
- Future structures and services - migration and ingress of ground gases into confined spaces followed by explosion.

The assessment has identified receptors to include building structures and current/proposed end-users.

It is understood that the site will not be permanently staffed and structures will not be manned apart from infrequent and short duration maintenance use. Therefore, excavations during the construction works, and any service trenches and manholes, are the only viable spaces that could permit the build-up of any ground gases present and present a risk to human health.

Construction workers should undertake appropriate risk assessments and risks should be managed through health and safety procedures and the use of PPE.

7.3 Preliminary risk assessment

The preliminary risk assessment findings and potentially complete contaminant linkages are shown in **Table 17**.

The risk classification is based on the combination of hazard consequence and probability using a risk matrix from CIRIA C552 (Rudland et al., 2001). The requirement for a preliminary qualitative risk assessment is in accordance with LCRM (Environment Agency, 2023). A summary of the risk assessment process is in **Appendix F**.

Table 17 Risk estimation for potentially complete contaminant linkages

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Risk Rating	Justification
On-site						
Made ground (i.e. fill material associated with historic ponds) Use and storage of oils/chemicals within farmsteads	Current and future construction/ maintenance workers	Direct oral ingestion, inhalation and dermal contact with soil and soil-derived dust	Unlikely	Medium	Low	Exposure to chemical constituents over short timeframes is considered to pose a medium severity risk. Although the presence of contamination is uncertain, it is likely limited to specific areas of the site, with potential agricultural chemicals expected to be present only at low concentrations due to surface exposure, rainfall and their typically intermittent application. Given the shallow nature of the proposed earthworks and the use of appropriate PPE during construction, the overall risk to site workers is considered to be low.
Unspecified tank associated with Limberlost Farm Active railway line and historic tramway sidings associated with past peat workings Naturally occurring peat and alluvium		Accumulation of ground gas leading to explosion or asphyxiation	Very Unlikely	Severe	Low	The potential for ground gas generation from both infilled materials and natural soils on-site remains uncertain; however, the low degradable organic content anticipated within the natural soil strata suggests a limited capacity for significant gas production. Additionally, the historic infilling of former ponds, estimated to have occurred over 50 years ago, further reduces the likelihood of ongoing gas generation, as most degradable material would have decomposed or stabilised over time. While the potential consequences of hazardous ground gas can be severe, the site's predominantly outdoor usage, coupled with the nature of the proposed development - which involves solar panel installations with shallow construction depths - minimises the risk of gas accumulation. Furthermore, access to site structures is expected to be infrequent and short in duration, significantly

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Risk Rating	Justification
						limiting the possibility of a viable pathway for gas migration.
	Groundwater (Secondary A and Principal aquifer)	Leaching to soil followed by vertical migration in groundwater	Unlikely	Medium	Low	Groundwater within the secondary A and Principal aquifers are classified as having medium to high vulnerability, with three active licensed groundwater abstractions identified within 1 km of the site. Additionally, the site lies within a Zone 3 SPZ. Despite this, the minimal groundworks required for the installation of the solar arrays are considered to pose a negligible risk of causing or increasing leaching, even if contaminated soils are present at shallow depths.
	Surface water (drainage ditches into Stainforth and Keadby Canal)	Migration via runoff through drainage	Low Likelihood	Medium	Moderate/ Low	The extensive network of drainage ditches across the site presents a potential pathway for the migration of contaminants from shallow soils and fine sediment-laden surface water runoff, particularly during periods of heavy rainfall or ground disturbance associated with solar construction activities. However, during future use, the rate of runoff is unlikely to alter much from its current rate throughout the array area..
	Solar scheme infrastructure	Direct contact with soils/groundwater and migration of combustible	Unlikely	Medium	Low	It is considered unlikely that the chemical constituents present within the sites shallow soils would exist in concentrations significant enough to result in damage to the infrastructure positioned beneath the site. Furthermore, given the sites primarily outdoor use and its wasted peat regime, the potential for the creation of a viable pathway is low. While the likelihood of an adverse event occurring is minimal, the potential severity of impact is classified as medium. As a result, the overall risk is assessed as low.

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Risk Rating	Justification
Off-site sources						
Made ground (i.e. fill material associated with refuse heaps north of Area A)	Current and future construction/ maintenance workers	Direct oral ingestion, inhalation and dermal contact with soil and soil-derived dust	Unlikely	Medium	Low	Potential residual contaminants may remain from historical industrial activities however buried and compacted soil reduce dust generation. Vegetation cover further minimises dermal contact and inhalation risks.
Unspecified tanks positioned west to north of Area A Historic tramway sidings associated with historic peat workings Historic sewage pumping station (northwest of Area A)		Accumulation of ground gas leading to explosion or asphyxiation	Very Unlikely	Severe	Low	The potential for ground gas generation from offsite sources remains uncertain; however, the low degradable organic content anticipated within the natural soil strata suggests a limited capacity for significant gas production. While the potential consequences of hazardous ground gas can be severe, the site's predominantly outdoor usage, coupled with the nature of the proposed development—which involves solar panel installations with shallow construction depths—minimises the risk of gas accumulation. Furthermore, access to site structures is expected to be infrequent and short in duration, significantly limiting the possibility of a viable pathway for gas migration.

Notes:

* denotes linkages that may be influenced by impacts of climate change and extreme weather events.

Risk matrix		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low
	Very Unlikely	Low	Very Low	Negligible	Negligible

Potentially complete contaminant linkages with a potential risk of moderate to low or higher comprise:

- Moderate/Low: On-site made ground, usage of agricultural chemicals, unspecified tank and tramway land – Surface water within drainage ditches and Stainforth and Keadby Canal – Migration via runoff through drainage.

In line with LCRM, these potentially complete contaminant linkages need to be assessed further through an appropriate scope of site investigation and/or mitigation incorporated into the development as may be appropriate.

7.4 Data gaps and uncertainties

Key data gaps and uncertainties identified in the CSM at desk study stage include:

- There may have been other previous uses of the site that have not been specified.
- Status of former tanks not known.
- There are no previous investigations available for the western portion of Area A or for Area C, therefore no information on actual ground conditions, depth to groundwater and the contamination status within this location at this stage.
- Gaps in multiple historic OS maps across Areas A and C.
- A site reconnaissance survey was not undertaken due to the availability of recent survey data from an assessment conducted in November 2022. Additionally, time constraints associated with the current project scope limited the feasibility of conducting an updated survey.
- Potential uncertainties relating to climate change/EWE impacts and potential effects on contaminant sources, including changes to chemical properties/behaviour in solid, liquid, vapour or gaseous phases, physical changes to source zone, changes to microbial behaviour or deposition of contaminants from off-site sources.
- Potential uncertainties relating to climate change/EWE impacts and potential effects on pathways and receptors, including changes to hydrogeological or hydrological conditions (including sea level rise/tidal effects), changes to proximity of receptor, changes to indoor/outdoor exposure pathways, predicted increases in extreme weather events (e.g. affecting risks such as those associated with ground or mine gas).

8 CONCLUSIONS AND RECOMMENDATIONS

8.1 Geo-environmental assessment

The key findings of the geo-environmental assessment are as follows:

- The site is irregularly shaped, covering approximately 1,026 hectares of predominantly agricultural land, interspersed with isolated farmsteads. It incorporates Tween Bridge Moors, South or Sands Moors and Nun Moors, with the Tween Bridge Wind Farm occupying part of Area A. Situated at 1 – 4 m AOD, the site features an extensive drainage network, with the Stainforth and Keadby Canal running east-west through the central portion. The canal is flanked by the North and South Soak Drains and runs parallel to the Thorne South railway line. Additionally, a network of roads and dykes traverse the site, facilitating access and water management.
- The site has been extensively drained since the 1850s, with a network of north-south ditches discharging into the Stainforth and Keadby Canal, which runs centrally through the area and is bordered by multiple drainage features, including the North and South Soak Drains and Old Godnow Drain, which bisects Areas A and C. While historical maps do not indicate direct peat extraction, the eastern section of Area A is mapped as peat, with tramway sidings recorded between 1906 and 1948, likely used for peat transportation. Early land divisions and drainage patterns suggest historic peat workings, although direct evidence is absent. By the 1890s, landscape modifications associated with warping activities were observed, including embanked ponds within Whittaker's Plantations, with further alterations recorded by 1948 alongside the development of Thorne Waste Drain and Waste Road. Limberlost Farm, constructed by 1968, featured an unspecified tank, though its condition remains unknown following demolition between 2009 and 2013. More recent developments include the Tween Bridge Wind Farm, operational since 2014, and the replacement of Elmhirst Plantation and Cottage with a pumping station circa 2001, while another water pumping station, linked to Grove House Farm, was constructed in the 1960s within Area C.
- In Area A (West), deposits primarily include glaciolacustrine clays and sands from the Hemingbrough Formation, with fluvioglacial sand and gravel at depth. In Area A (East), warp soils, reworked peat, and alluvium dominate the upper strata, transitioning into sandy deposits at greater depths. Area C (West) contains alluvium and blown sand, with underlying laminated silty clays and sand horizons from the Hemingbrough Formation. Area C (East) presents blown sand, laminated clays, and peat, with deeper deposits of consolidated sand and gravel. The bedrock geology consists of Sherwood Sandstone Group beneath Area A, transitioning to Chester Formation sandstone and red marl in Area C. The site's varying sediment composition suggests historical fluvial and glacial influences, with localised peat and alluvial deposits indicative of former wetland environments.
- The site is situated within a moderate/low risk environmental setting, with several designated sensitive land uses in close proximity, including a Special Area of Conservation (SAC), Special Protection Area (SPA), Site of Special Scientific Interest (SSSI), and National Nature Reserve (NNR), adjacent to Area A. While these designations indicate ecological sensitivity, the limited disturbance associated with the proposed solar farm development significantly reduces the potential for viable contamination pathways affecting these areas. However, a potential contaminant linkage has been identified concerning contaminants migrating via runoff through the site's extensive network of drainage ditches, which ultimately discharge into the Stainforth

and Keadby Canal. To mitigate this risk, appropriate recommendations will be provided to manage surface water runoff and minimise any potential environmental impact.

8.2 Geotechnical assessment

The key findings of the geotechnical assessment are as follows:

- Made ground i.e., fill material anticipated to be present on site (within isolated locations associated with historical ponds).
- Made ground present offsite (waste material associated with refuse heaps located north of Area A).
- Worked peat deposits (condition and stability remain uncertain at this stage).
- Unknown extent of existing buried services.
- Highly compressible strata anticipated in areas of peat and soft alluvium clay of which may affect ground engineering and foundation design and construction of substation compounds.
- Silt-rich soils such as glaciolacustrine deposits and warp material susceptible to rapid loss of strength in wet conditions of which may affect ground engineering and foundation design of larger structures.
- High groundwater tables are unlikely to impact temporary or permanent works in well-drained areas of the site however, they may pose a consideration in peatland zones.
- Potential made ground present in isolated areas of the site may be susceptible to differential settlement, which could impact ground engineering, foundation design, and construction stability.

8.3 Recommendations

The following recommendations are made for further assessment of the site to investigate the risks identified above and/or to address remaining uncertainties:

- Targeted peat probing at selected locations where peat deposits are anticipated, carried out along transverse alignment to assess geotechnical stability and environmental characteristics to help determine foundation requirements if necessary.
- Development of a Construction Environmental Management Plan (CEMP) to effectively control and manage surface water runoff during construction activities. The scheme design should incorporate buffer zones and restricted access areas along drainage ditches and watercourses to reduce the potential for contamination migration.
- Implementation of best working practices to minimise ground disturbance, particularly in critical areas where soil conditions may be susceptible to degradation. Heavy traffic movement should be limited during unfavourable weather conditions to prevent soil poaching, over-compaction, rutting, and sediment-laden runoff mobilisation. To mitigate these risks, the use of protective cover systems or track matting on primary haulage routes should be integrated into construction planning.

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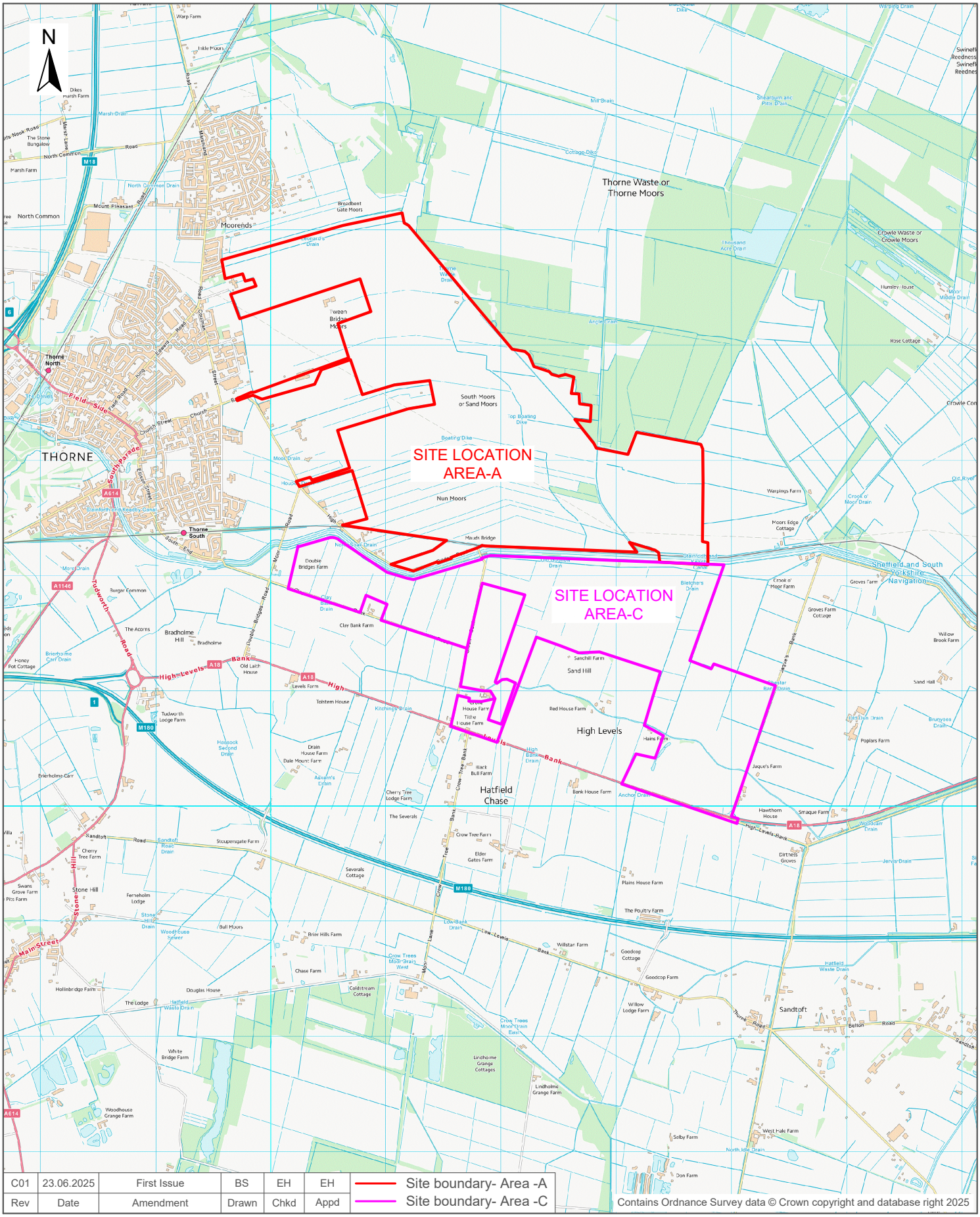
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FIGURES

Figure 1 SITE LOCATION PLAN



Rev	Date	Amendment	Drawn	Chkd	Appd
C01	23.06.2025	First Issue	BS	EH	EH

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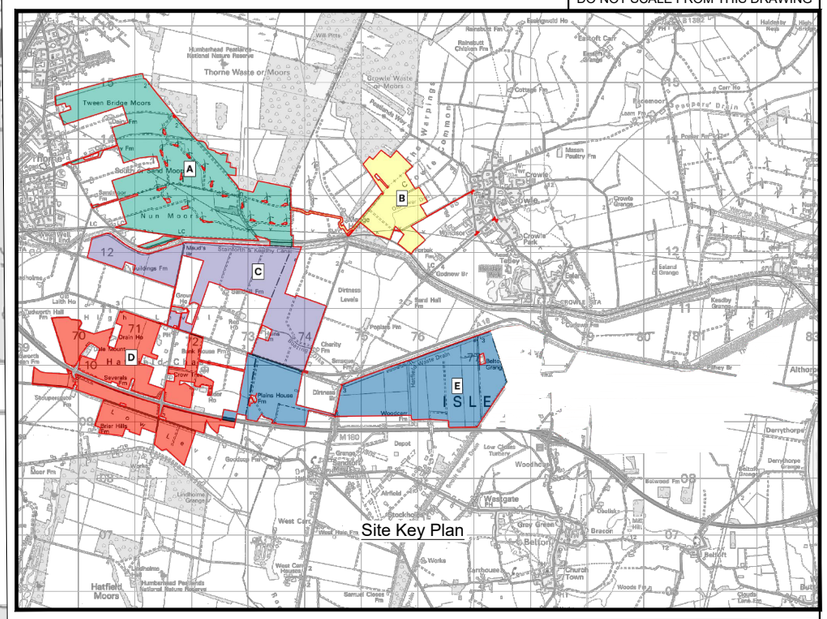
Project Name: Tween Bridge Solar Farm

Description: Site Location - Areas A and C

Dimension	Size	Scale	Geolocation	Project ID	Drawing no.	Rev	File name
m	A4	NTS	473175,412165	12081	11101	C01	12081-MA-111-XX-D-G-11101-C01

Figure 2 AREA BOUNDARY PLAN

DO NOT SCALE FROM THIS DRAWING



LEGEND

Site boundary

Notes:

Base plan provided by Client
Drawing Ref.: P21-3484_EN_0024_C - LAND PARCEL PLAN.pdf

Rev	Date	Amendment	Drawn	Chkd	Appd
C02	20.08.2025	Second Issue	BS	EH	EH
C01	23.06.2025	First Issue	BS	EH	EH

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Client: Pegasus Group

Project Name: Tween Bridge Solar Farm

Description: Area Boundary Plan - Areas A and C

Project ID	Drawing no.	Revision
12801	11201	C02

File name: 12081-MA-112-XX-D-G-11201-C02

Dimensions	Scale	Size
m	NTS	A3

APPENDICES

APPENDIX A
SERVICE CONSTRAINTS

1. Service Constraints

1.1. This Report (the “Report”) and any study, inspection, investigation, sampling, testing and or interpretation carried out in connection with the Report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) trading as Carbon Zero Consulting, Leap Environmental or RSK Geosciences, for the Client named in the first paragraph of the Report (the "Client") in accordance with the terms of an RSK Fee Proposal including RSK Environment Standard Terms and Conditions (the “Appointment”) between RSK and the Client, unless otherwise stated in the first paragraph of the Report. The Services were performed by RSK with the reasonable skill and care ordinarily exercised by a geo-environmental consultant at the time the Services were performed. Nothing in this Report shall be construed as imposing any fitness for purpose obligation. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the Client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the Client.

1.2 Other than that, expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services. RSK shall not be liable in respect of any action or proceedings arising out of or in connection with this Report whether in contract, in tort, for breach of statutory duty or otherwise after the expiry of six (6) years from either (i) the date of the Report or (ii) such earlier date as prescribed by law, unless varied in the terms of the Appointment.

1.3 Unless otherwise agreed in writing, the Services were performed by RSK exclusively for the purposes of the Client. RSK is not aware of any interest of or reliance by any party other than the Client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent, or condone any party, other than the Client relying upon the Services. Should this Report or any part of this Report, or details of the Services or any part of the Services, be made known to any such party, and such party relies thereon, that party does so wholly at its own and sole risk, and RSK disclaims any liability to such parties. Any such party would be well advised to seek independent advice from a competent geo-environmental consultant and/or lawyer.

1.4 The Client shall not, without the prior written consent of RSK, assign, transfer, charge, mortgage, subcontract, or deal in any other manner with all or any of the benefits provided in this Report. Unless specified in the Appointment, RSK shall not be obliged to assign the benefit of the Report whether by collateral warranty, third party rights pursuant to the Contracts (Rights of Third Parties) Act 1999, letter of reliance or otherwise. If RSK agrees to any assignment of the benefit of this Report, in whatever form, benefits to third parties through collateral warranties, third party rights or letters of reliance shall not be provided unless a fee for each right, warranty or letter is agreed. The form of wording used in the warranty or letter shall be provided by RSK for agreement by the Client. Any reasonable changes to the form of wording will be implemented by mutual agreement, however the terms in the warranty or letter cannot offer the third party any greater benefit than the Appointment offered to the Client.

1.5 It is the understanding of RSK that this Report is to be used for the purpose described in the introduction to the Report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the Report is used, or the proposed use of the site change, this Report may no longer be valid and any further use of or reliance upon the Report in those circumstances by the Client without the review and advice of RSK shall be at the Client's sole and own risk. RSK shall not be liable for any use of this Report for any purpose other than that for which it was provided.

1.6 The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the Report inaccurate or unreliable. The information and conclusions contained in this Report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the Report in the future shall be at the Client's own and sole risk.

1.7 The observations and conclusions described in this Report are based solely upon the Services which were provided pursuant to the agreement between the Client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out, or required by the Appointment between the Client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this Report, RSK did not seek to evaluate the presence on or off site of asbestos, invasive plants, electromagnetic fields, lead paint, heavy metals, radon gas, fuel storage, persistent bio-accumulative or toxic chemicals (including PFAS and related compounds) or other radioactive or hazardous materials, unless specifically identified in the Services.

1.8 The Services are based upon RSK's observations of existing physical conditions at the Site gained from a visual inspection of the site together with RSK's interpretation of desk based publicly available information, including documentation, obtained from third parties and from the Client on the history and usage of the site, unless specifically identified in the Services and the limitations below:

a. The Services were based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely.

b. The Services were limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the visual inspection.

c. The Services did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the Client or third parties, including laboratories and information services, during the performance of the Services.

d. The Client has identified in writing to RSK, the information, reports, findings, surveys and preliminary works RSK may not rely upon when providing the Services.

RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK, and including the doing of any independent investigation of the information provided to RSK, save as otherwise provided in the terms of the Appointment between the Client and RSK.

1.9 Any site drawing(s) provided in this Report is (are) not meant to be an accurate base plan for scale measurement but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (intrusive and sample locations etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for accurate setting out and should be considered indicative only.

1.10 Should RSK be requested to review the Report after the date of issue of this Report, RSK shall be entitled to additional payment at the existing rates, or such other terms as agreed between RSK and the Client.

2. Service Constraints where the Report provides an intrusive assessment of ground conditions:

2.1 The intrusive environmental ground investigation aspects of the Services are a limited sampling of soil from the site, at pre-determined locations based on the known historic / operational configuration of the site. The conclusions given in this Report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent

of the limited area depends on the properties of the materials adjacent and local conditions, together with the position of any current structures and underground utilities and facilities, and natural and other activities on site. In addition, chemical analysis was carried out for a limited number of parameters (as stipulated in the scope agreed between the Client and RSK, based on an understanding of the available operational and historical information) and it should not be inferred that other chemical species (not tested) are not present.

2.2 The comments given in this Report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests made in the field and in the laboratory. The extent of the exploratory holes, laboratory testing and monitoring undertaken may have been restricted due to a number of factors including accessibility, the presence of buried or overhead services, current development, site usage, timescales or the Client's specification. The exploratory holes only assess a small proportion of the site area with respect to the site as a whole, and as such may only provide an indicative assessment of ground conditions on site. There may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account. In particular, it should be noted that there may be areas of made ground not detected due to the limited nature of the investigation or the thickness and quality of made ground across the site may be variable. In addition, groundwater levels and ground gas concentrations and flows, may vary from those reported due to seasonal, or other, effects and the limitations stated in the data should be recognised. The presence of hotspots of undisclosed contamination or exceptional and unforeseen ground conditions cannot be discounted.

2.3 Where the Services include Investigation of an exploratory nature or relating to physical ground works, any costings and prices provided in the Report are estimated and provided for guidance purposes only. The actual cost and time quantities shall be remeasured and shall be dependent upon the ground or other conditions, constraints present, and number and depth of the investigation locations, which shall influence the number of samples and tests required, and the quantities of soil being classified.

2.4 Asbestos is often observed to be present in soils in discrete areas. Whilst asbestos-containing materials may have been locally encountered during the fieldworks or supporting laboratory analysis, the history of brownfield and demolition sites indicates that asbestos fibres may be present more widely in soils and aggregates, which could be encountered during more extensive ground works. However, this Report does not constitute an asbestos survey. On this basis, the presence of asbestos on site cannot be discounted and a full asbestos survey should be undertaken.

2.5 Unless stated otherwise, only preliminary geotechnical recommendations are presented in this Report and these should be verified in a Geotechnical Design Report, once proposed construction and structural design proposals are confirmed. Eurocode 7 gives guidance on the type of sampling, sample quality, number and spacing of intrusive investigations, and number of laboratory tests required. It is intended that the Geotechnical Information section of this Report will fulfil the general requirements of the Ground Investigation Report as set out in section 6 of Eurocode7, although this is subject to the restrictions imposed on the investigation, as listed above. For geotechnical design, Eurocode 7 requires the Geotechnical Design Report to address both the geotechnical and structural aspects of the geotechnical design for both the limit and serviceability states. The Geotechnical Appraisal section of this Report will not meet the requirements of a Geotechnical Design Report (GDR) and should therefore be used for preliminary guidance only.

3. Service Constraints where the Report relates to Surface Water Management:

3.1 The Surface Water Management Inspection (SWMI) Report, documents provided, observations, actions, and recommendations, with respect to the management of potential pollution issues to surface waters, made during the site Inspection visit, are those present at the time of the visit, and may not represent those recorded by others on the same day.

3.2 The comments given in this Report and the opinions expressed are based on the weather, ground and ground water conditions encountered during the site work and on the results of tests made in the field and in the laboratory. However, there may be conditions pertaining to the site that have not been disclosed by the inspection and therefore could not be taken into account. In addition, groundwater levels and flows, may vary from those Reported due to seasonal, or other, effects and the limitations stated in the data should be recognised.

3.3 RSK places a degree of dependence upon oral information provided by site representatives, which is not readily verifiable through visual inspection, or supported by any available written documentation. RSK shall not be held responsible for conditions or consequences arising from relevant facts that were not fully disclosed by facility or site representatives at the time this Report was prepared.

3.4 This Report is a live document, to be continually reviewed and updated as the development progresses or other changes occur on site. RSK can only maintain the currency of this Report through the Client requesting support with supplementary site visits or attendance at meetings ahead of key stages of the development in relation to surface water management. Our risk rating assesses a number of risk factors in line with the source-pathway- receptor model and is therefore subject to constant change.

3.5 Standard design drawings are indicative. Material types, dimensions and construction details will need to be adjusted by the Client to suit the specific conditions / flows on Site.

3.6 The full responsibly for implementing the site-specific protection and maintenance measures to protect the surface water system as stated in this Report, remains with the Client and their site management team. Additional control measures may be required to achieve the objectives set out in the Surface Water Management Plan to be implemented and financed by the Client.

4. Service Constraints where the Report relates to Waste Management:

4.1 In accordance with the definition provided in the Waste Framework Directive (WFD), materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded, by the holder'. Naturally occurring soils are not considered waste if re-used on the site of origin for the purposes of development. Soils such as made ground that are not of clean and natural origin (irrespective of whether they are contaminated or not) and other materials such as recycled aggregate, do not necessarily become waste until the criteria above are met. Excavation arisings from the development may therefore be classified as waste if surplus to requirements and/or unsuitable for re-use.

4.2 It is the duty of the waste producer, to ensure that all waste is accurately classified prior to waste disposal. Technical Guidance WM3 (EA, 2018) sets out in its Appendix D requirements for waste sampling. It is a legal requirement to correctly assess and classify waste. The level of sampling should be proportionate to the volume of waste and its heterogeneity. Unless otherwise stated, the waste assessment presented in this Report should be considered as preliminary and further testing and assessment of the waste under the provisions of a Waste Sampling Plan may be required to obtain the necessary level of data required for basic characterisation of the waste in support of disposal.

4.3 Unless stated otherwise in the Report, information relating to historical operations at the site was not reviewed as part of the assessment by RSK. In addition, unless otherwise stated in the Services, RSK was not present during the collection of the samples nor had any input on the chemical testing suite. Therefore, the waste assessment and classification detailed in this Report are based solely on any information that were provided to RSK (e.g., laboratory chemical data, exploratory hole records) and were completed without prejudice for our Client.

4.4 RSK's assumes that any ground investigation data, chemical testing results etc., that were provided by the Client to inform the waste assessment and supporting review were carried out in accordance with current best practice and relevant guidance/ standards, where applicable. Thus, the

comments given in this Report and the opinions expressed are based solely on the information provided by the Client. However, it is noted that there may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account as part of the RSK assessment.

5. Service Constraints for Construction Environmental Management Plan Reports:

5.1 This Report should be considered in the light of any changes in legislation, statutory requirement or industry practices that may have occurred subsequent to the date of issue.

5.2 The measures and comments outlined in this Report and any opinions expressed are based on the plans provided at the time and discussions with relevant parties. However, there may be conditions pertaining to the site that have not been disclosed by investigations and therefore could not be taken into account.

5.3 This CEMP is a live document and is subject to change throughout the project, as and when necessary, to ensure management of environmental aspects remains relevant, and to ensure continued compliance with legislation and commitments as they may change. RSK understands that this CEMP will be reviewed by the Client every six months and updated as and when necessary.

5.4 It is the full responsibility of the Principal Contractor/ Client to ensure that their works do not contravene legal requirements, and adherence to this CEMP alone cannot be a full defence regarding legal action against the Principal Contractor.

6. Service Constraints where the Report relates to Ground Gas Membrane Verification:

6.1 This Report is limited to the verification of the gas resistant membrane/vapour membrane/ radon barrier after installation and no inspections were undertaken of the substrate (i.e. prepared ground). The Report therefore does not constitute as a full verification of ground gas protection system.

6.2 The comments given in this Report and the opinions expressed, are based on the condition of the ground gas membrane as encountered at the time of inspection by suitably qualified personnel. RSK cannot accept liability for any subsequent change to the status of the gas membrane by follow-on trades or other construction activity.

6.3 Where not designed by RSK, the verification of protection measures is carried out with reference to the gas protection design provided by the Client. RSK assume the scope of gas protection measures as determined by third parties to be correct and to have achieved any required approval from authorities.

6.4 The Ground Gas Design Report/Remediation Strategy and Verification Plan contains details of the procedures to be adopted for inspection and validation of the works. However, it should be noted that responsibility for the correct implementation of the strategy lies with the appointed contractor. RSK cannot be held responsible for any remedial works that are carried out without the agreed procedures involving either direct supervision by RSK, or inspection and validation of the works by a representative from RSK.

7. Service Constraints for Environmental Due Diligence (EDD)Reports:

7.1 The comments given in this Report and the opinions expressed are based on the information obtained and reviewed as part of the desk-based assessment. However, there may be conditions pertaining to the Site that have not been disclosed by the assessment and therefore could not be taken into account. Furthermore, no intrusive investigations, monitoring or sampling have been undertaken to confirm the environmental status of the site, therefore any comments relating to ground conditions and subsurface contamination are based solely on a review of desk-based information.

7.2 This Report describes the results of the EDD exercise. The scope of this EDD Report, where appropriate, covers legal or regulatory compliance with respect to UK or international regulations associated with environmental matters.

7.3 As with any EDD exercise, there is a certain degree of dependence upon information provided by the target company. The EDD does not include a site walkover / visit or liaison with site representatives unless identified in the Services. Therefore, the assessment is based on the available desk study information. Also, there is a certain degree of dependence upon oral information provided by site representatives, which is not readily verifiable through visual inspection, or supported by any available written documentation. RSK shall not be held responsible for conditions or consequences arising from relevant facts that were not fully disclosed by facility or site representatives at the time this EDD exercise was performed.

7.4 This Report, including all supporting data and notes (collectively referred to hereinafter as "information"), was prepared or collected by RSK for the benefit of its Client.

7.5 The comments given in this Report and the opinions expressed are based on the information obtained and reviewed as part of the desk-based assessment and the site inspection visit. However, there may be conditions pertaining to the Site that have not been disclosed by the assessment and therefore could not be taken into account. Furthermore, no intrusive investigations, monitoring or sampling have been undertaken to confirm the environmental status of the Site therefore any comments relating to ground conditions and subsurface contamination are based solely on a review of desk-based information and observations collected during the site inspection visit.

8. Service Constraints for Ground source heat energy Reports:

8.1 It is understood that this is a desktop survey only and that there are no requirements for a site walkover, service utility survey, or provision of service plans. These services can be provided upon request if required.

8.2 At a later stage, it is possible that a thermal response test (TRT) will need to be completed, for which a test borehole will have to be drilled, and these would be costed at the time. RSK can provide all aspects of subsequent site work for a GSHP system if required.

9. Service Constraints for Water Abstraction Borehole Reports:

9.1 The Report aims principally to only identify and assess the suitability of the site for a water abstraction borehole. This Report should be considered in the light of any changes in legislation, statutory requirements, and industry practices, that have occurred subsequent to the date of the Report.

9.2 Unless stated in the Report, the opinions expressed in this Report including all comments and recommendations provided are on the basis of the information obtained from a desk-based assessment.

Appendix B
PROJECT-RELATED SUSTAINABILITY CONSIDERATIONS

As introduced in Section 2.5, sustainability considerations have been taken into account during the design, planning and implementation stages of the project. We manage and monitor this using the RSK Geosciences Sustainable Management Practices (SMP) tool. More detail is provided on this below.

Sustainable management practices (SMPs)

The UK Sustainable Remediation Forum (SuRF-UK) was established to develop a sustainable remediation framework that allows assessors to identify remediation strategies and techniques that are more explicitly linked to the goals of sustainable development. However, it was recognised that the same sustainability principles discussed in the framework underpin all aspects of land contaminated management and can be applied across the full range of activities. These include aspects such as site characterisation that would not normally have a formal sustainability assessment, but where sustainability-related benefits may be gained.

SuRF-UK defines Sustainable Management Practices (SMPs) as 'relatively simple, common sense actions that can be implemented at any stage in a land contamination management project to improve its environmental, social and/or economic performance. SMPs can be used to improve the benefits (e.g. resource efficiency, community satisfaction) or reduce the negative impacts (e.g. spillages, complaints, cost) of a project, leading to project 'sustainability gains', without requiring a formal sustainability assessment. SMPs may also be used where sustainability gains are sought at a programme of work level using generic criteria or standards that can apply to a range of project types' (CL:AIRE, 2021a).

RSK Geosciences has developed these SMPs further to identify those that are relevant to each phase of geo-environmental and geotechnical site assessment, along with methods of measurement and reporting. Some of the SMPs are mandatory as they an intrinsic requirement of our ISO-certified Safety, Health, Environment and Quality management system (SHEQMS) or of other procedures. In addition, for each project, optional items are selected either to:

- identify opportunities to reduce emissions during project delivery, and/or
- support achievement of more sustainable outcomes for clients.

Further details are available on request.

Sustainability-related considerations relevant to the project

The following sustainability-related considerations have been identified to be relevant to this project. Relevant aspects have been included in the appropriate section of the report.

Effective site investigation

Undertaking effective site investigations in accordance with standards, technical standards and good practice informs a better understanding of below ground issues. Where applicable, RSK recommends the application of geophysical surveys to optimise and supplement data from intrusive investigations. These aspects contribute to the overall sustainability of the development and reductions in associated carbon emissions.

For geo-environmental assessments, effective site investigation informs more site-specific land contamination risk assessment. This means that where remediation is required, it is targeted to have the greatest benefit in mitigating identified risks to human health and the environment, and avoids emissions and other negative environmental impacts associated with unnecessary remediation. Effective site assessment undertaken in accordance with good practice supports the achievement of wider sustainability goals including:

- Supporting the beneficial reuse of brownfield and other degraded land, or the development of nature-based solutions.
- Reducing risks from historical land contamination or on-going releases to groundwater, surface waters and ecological receptors.
- Supporting decarbonisation of the energy and other sectors through undertaking effective site assessment and providing advice on mitigation of ground-based risks.

For geotechnical assessments, effective site investigation informs lean, optimal design of foundations and structures ensuring efficient use of materials, long-term performance and stability including climate resilience, and a reduction in community disruption during construction. It also allows for early identification of geotechnical hazards to aid in the prevention of environmentally damaging issues during construction, for example, soil erosion and landslips. In earthworks, site investigations aid in confirming the material types and properties allowing for their reuse in construction. Furthermore, early identification of materials enables better planning and management of site resources, reducing waste and promoting retention and reuse of soils and other excavated materials.

Reuse and disposal of excavated materials

Reuse and disposal of excavated materials is a key issue on many development or construction projects. In accordance with the definition provided in the Waste Framework Directive (WFD), materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded, by the holder'. Naturally occurring soils are not considered waste if reused on the site of origin for the purposes of development.

Excavated materials that are not of 'clean and natural origin' (irrespective of whether they are contaminated or not), such as made ground and other anthropogenic materials, may be considered waste after excavation. This means that they cannot be reused unless 'recovered' through use of waste licensing controls, such as exemptions, or a waste recovery permit. Alternatively, in limited circumstances, the CL:AIRE Definition of Waste Code of Practice (DoWCoP; CL:AIRE, 2011)) can be applied, in specific scenarios, to support suitable reuse on or off-site using materials management plans (MMPs). Otherwise, disposal is required, typically off-site, under an appropriate landfill permit. This has important implications for the assessment, excavation, temporary storage, reuse and disposal of excavated materials.

In accordance with the waste hierarchy (Ref. Defra, 2011) and circular economy principles, there are a range of approaches to reduce the volume of waste materials created from development projects with the following order of preference:

- Prevention – designing out the need for excavation and identifying during the development planning phase the potential for surplus soils to be generated during construction.
- Minimisation – implementing effective segregation, stockpile and materials management during construction.

- Reuse – assessing potential for reuse without treatment, either on or off-site.
- Recycling/recovery – processing of materials to allow reuse and support waste recovery.
- Disposal – the last resort, either on or off-site.

The potential for the generation of waste materials through land redevelopment must therefore be considered as part of any construction activity. Reuse of excavated materials, including topsoil, subsoil, aggregates and rock, generated through the works may also offer opportunities to reduce the amount of waste created, diverting it away from landfill, resulting in a more sustainable development. The materials may have reuse potential on the site of origin or at other development sites. In some instances, generated waste materials have the potential for beneficial reuse, with some non-waste materials needing to be disposed of to landfill.

Early consideration, planning and effective implementation are all needed to maximise the reuse of materials. As well as reducing cost for off-site disposal, sustainability-related benefits include reducing the volumes of materials for transport and disposal, quality and import of virgin materials and associated carbon emissions.

Assessment of the potential for reuse materials is essential, with information on the soil quality being collected and understood as part of the intrusive investigation phases where relevant.

Soil as a resource

Soil forms an important sub-category of excavated material. Soil contains approximately three times as much carbon as the atmosphere. As well as avoiding the generation of waste, minimising the disturbance of soils on site minimises the loss of carbon during soil handling and storage. Retaining as much soil as possible without damage also reduces flooding, dust and silt management risks, nutrient retention, and supports biodiversity net gain. Soil is therefore a valuable resource in its own right, requiring careful planning at an early stage in the project lifetime to ensure that it can be successfully retained or reused. Defra has published a Code of Practice for the sustainable use of soil on construction sites (Defra, 2009). This is intended to be a practical guide to assist anyone involved in the construction industry to protect the soil resources with which they work, with a focus on England.

Site-won topsoil should, where possible, be left in situ or handled carefully to prevent damage to the soil structure. Where topsoil is to be stripped, stockpiled and re-used such activities should be undertaken during dry weather (generally June to September). Once stockpiled, topsoil should be kept dry. Significant working of topsoil whilst wet can damage the soil structure, reducing the soils' ability to drain and resulting in anaerobic rather an aerobic soil conditions.

Anaerobic soil conditions can have a negative impact on plants and their roots, which will impact the ability of plants to take root once the soil has been placed for its proposed end use. Machinery tracking over recently placed topsoil should be avoided. Should prolonged poor storage result in degradation of the soil some treatment is likely to be required. This may include sand amelioration to improve the soil structure or the addition of composts to reduce nutrient deficiency.

Where site-won topsoil cannot be reused on site, it may then be classed as a waste and consideration should be given to the donation of this material to another construction site where a deficit of topsoil material has been calculated. This would need to be carried out under an MMP. Alternatively, to prevent a valuable resource from going to landfill, consideration could be given to donating topsoil to a Soil Treatment Facility (STF) where it can be treated, processed and reused on other sites, assuming the STF has an appropriate Environmental Permit.

Where relevant, the presence of topsoil and subsoil is considered in site investigation interpretative reports, and how it may be valuable to retain this within the development. By assessing the quality of soils at the investigation phase, together with the anticipated volumes generated from the project, the potential for reuse of excavated soils can also be considered. This may include identifying opportunities for the reuse of surplus soils and minimising the generation of materials classified as waste. Where improvements in soil quality are needed or possible, recommendations can be given to assist in the reuse of this valuable resource.

DoWCoP and MMPs

DoWCoP was developed in consultation with the Environment Agency and the development industry to enable the reuse of materials under certain scenarios subject to demonstrating that specific criteria are met. The current re-use scenarios covered by DoWCoP comprise:

- Reuse on the site of origin (with or without treatment).
- Direct transfer of clean and natural soils between sites.
- Use in the development of land other than the site of origin following treatment at an authorised Hub site (including a fixed Soil Treatment Facility).

The importation of made ground soils (irrespective of contamination status) or crushed demolition materials is not permitted under the CoP and requires either a standard rules environmental permit or a U1 waste exemption.

In the context of excavated materials used on sites undergoing development, four factors are considered to be of particular relevance in determining if the material is a waste or when it ceases to be waste:

- The aim of the Waste Framework Directive is not undermined, i.e. if the use of the material will create an unacceptable risk of pollution of the environment or harm to human health it is likely to be waste.
- The material is certain to be used.
- The material is suitable for use both chemically and geotechnically, and
- Only the required quantity of material will be used.

DoWCoP requires the preparation of a MMP that confirms the above factors will be met. This plan needs to be reviewed by a 'Qualified Person' (QP) who will then issue a declaration form to the EA. As the project progresses, data must be collated and on completion a verification report produced that shows the MMP was followed and describes any changes. The MMP establishes whether specific materials are classified as waste and how excavated materials will be treated and/or re-used in line with the CoP. The MMP is likely to form part of the site waste management plan (SWMP), where applicable.

Future climate change considerations

Future global climate change has been numerically modelled by the Intergovernmental Panel on Climate Change (IPCC) to the year 2100 based on potential anthropogenic greenhouse gas emissions scenarios. The modelling output results in projections, which the Met Office has used to determine the potential impacts of climatic change for the UK. 'UKCP18' is the most up to date set of climate projections for the UK and are based on Representative Concentration Pathways (RCP) greenhouse gas emission scenarios. All scenarios project warming with RCP 8.5 being the most extreme scenario with global temperatures increasing by 4.3°C. Typically projections indicate

changes will increase in magnitude with time. It is noted that RCPs have been superseded by Shared Socioeconomic Pathways (SSP) which were published by the IPCC in 2021, although the Met Office has yet to publish updated projections based on SSP data.

The Met Office defines climate change as the large-scale, long-term shift in average weather patterns and average temperatures and is assessed by averaging data over a 30-year period. The most recent reference period is 1991-2020. The UKCP18 data indicate that the UK climate is changing resulting in hotter drier summers and warmer wetter winters, with an increase in the frequency and intensity of extreme weather and significant weather events with a higher likelihood of heat waves, flash floods and droughts. Sea level is also rising. Further details on the technical background and data sources are provided in **Appendix F**.

The key pieces of legislation associated with climate change are the Climate Change Act (2008) and the Climate Change (Scotland) Act 2009. They established the Committee on Climate Change (CCC) and require a UK Climate Change Risk Assessment (CCRA) to be published every five years to assess 'the risks for the UK from the current and predicted impacts of climate change', combined with a National Adaptation Programme. The adaptation programmes place requirements on the planning regime to incorporate the effects of climate change within their decision making. This is implemented through national planning frameworks and planning policy.

The need to incorporate the predicted effects of future climate change and associated extreme weather events (EWE) into qualitative and quantitative land contamination risk assessments is set out within Land Contamination Risk Management (LCRM) LCRM Stage 1 risk assessment (Environment Agency, 2023). BS 21365:2020 'Soil Quality: Conceptual site models for potentially contaminated sites' (BSI, 2020) includes the requirement to identify possible foreseeable events that could affect contaminant impacts or create new exposure pathways including potential for flooding (rivers, sea, groundwater), rising groundwater or seawater levels, extreme weather conditions and change of use. While there is currently no statutory guidance detailing how the effects of future climate change should be considered within land contamination assessments, several industry-led publications have been produced which provide details on how this can be incorporated, including:

- CL:AIRE, March 2007. Climate Change, Pollutant Linkage and Brownfield Regeneration (CL:AIRE, 2007).
- CL:AIRE, October 2021. Good Practice for Risk Assessment for Coal Mine Gas Emissions (CL:AIRE, 2021a).
- SoBRA, August 2022. Guidance on Assessing Risk to Controlled Waters from UK Land Contamination Under Conditions of Future Climate Change" version 1.0, (SoBRA, 2022)
- NHBC, 2023. NF94: Hazardous ground gas – an essential guide for housebuilders (NHBC, 2023).

Climate change-related impacts on the CSM and land contamination risk assessment are considered at each stage of the site assessment as per LCRM.

Climate change and EWE also have substantial implications for future geotechnical ground conditions, influencing the stability and durability of geotechnical structures, such as foundations, retaining walls, slopes and pavements to mention but a few. Therefore climate change will significantly impact the design of land development projects going forward over their lifecycle and beyond. Furthermore, climate change will significantly impact the future performance of existing land development projects that have not been designed taking into account these issues. Relevant standards and guidance are referred to in the relevant sections of the report.

Potential for ground source heating and cooling

Most locations in the UK are suitable for the installation of ground source heating or cooling (GSHC) systems. The most appropriate type of installation is determined by the available space, heating and cooling demands of the proposed development and a number of geological and hydrogeological factors, and drilling risks (amongst other factors). We have undertaken an initial assessment of the suitability of the site for this technology in Section 4.7.

Embodied ground carbon assessment

As part of achieving pathways to net zero for the construction sector, there is an urgent need to significantly reduce carbon emissions without compromising suitable and climate resilient development. Created by Leap Environmental (part of RSK Geosciences) in collaboration with the University of Surrey, CReDiT is a suite of carbon calculator tools designed to assess the embodied carbon in materials and associated transport. The tools provide information on relative embodied carbon for below ground aspects, such as foundations, cover systems, and reuse and disposal of soils and excavated materials. The results are intended to inform discussions with relevant parties about embodied carbon at an early stage in the design process and enable comparison and evaluation of different design options.

Support to biodiversity net gain/rewilding projects

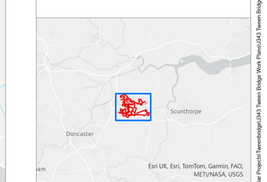
The quality and condition of soils is a key factor in the establishment or enhancement of flora, which then supports goals of achieving biodiversity net gain (BNG) or rewilding projects. For example, low fertility soils promote the establishment of wildflowers that support insect populations, which would otherwise be outcompeted by grasslands. Where applicable, RSK Geosciences undertakes soil sampling, soil fertility testing and assessments to support nature-positive actions.

Appendix C
DEVELOPMENT DRAWINGS

Tween Bridge Solar Farm

LEGEND

OrderLimits_Rev_AJ



Site Location Plan - Rev AJ

0 155 310 620 Metres

Coordinate System: British National Grid Projection: Transverse Mercator Datum: OSGB 1936		© Crown copyright and database rights 2025. Ordnance Survey AC0000808122
Scale: 1:10,000	Paper Size: A0	DCO Application

RWE

			Revision: 1
			Drawing Status: Final
Drawn: EH	Checked: AD	Approved: MB	Date: 20/08/2025

Path: C:\Users\ADSS6685\RWE\JIRA Dropbox - JIRA Solar UK Subsidy Free\12. GIS\Projects\GIS JIRA Solar Projects\Tweenbridge\243 Tween Bridge Work Plans - HAM-LOCKWOOD\7 apx

0 320 640 1,280 Metres

Esri Community Maps Contributors, Esri UK, Esri, TomTom, Garmin, GeoTechnologies, Inc, METI/NASA, USGS

Appendix D
ENVIRONMENTAL DATABASE REPORT

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Thorne

Order Details

Date: 03/03/2023

Your ref: Thorne

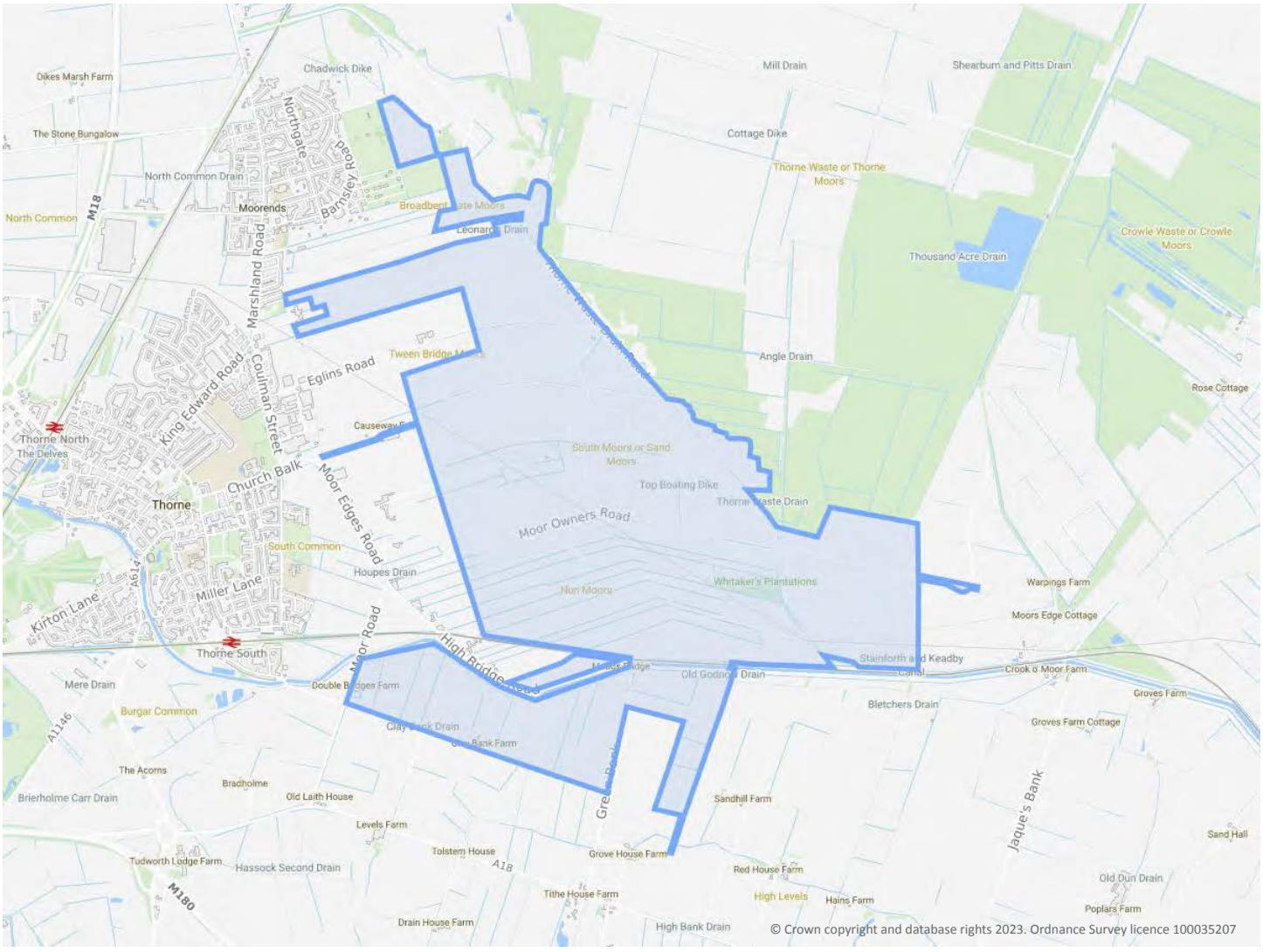
Our Ref: GSIP-2023-13386-12980_d

Site Details

Location: 471579 413695

Area: 733.34 ha

Authority: Doncaster Metropolitan Borough Council, North Lincolnshire Council



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Summary of findings p. 2

OS MasterMap site plan N/A: >10ha

Aerial image p. 8

groundsure.com/insightuserguide

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

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	19	6	22	33	-
17	1.2	Historical tanks	1	0	15	10	-
18	1.3	Historical energy features	0	1	5	13	-
19	1.4	Historical petrol stations	0	0	0	0	-
19	1.5	Historical garages	0	0	2	5	-
20	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
21	2.1	Historical industrial land uses	20	7	34	53	-
26	2.2	Historical tanks	1	0	21	18	-
27	2.3	Historical energy features	0	1	11	25	-
29	2.4	Historical petrol stations	0	0	0	0	-
29	2.5	Historical garages	0	0	2	5	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
30	3.1	Active or recent landfill	0	0	0	0	-
30	3.2	Historical landfill (BGS records)	0	0	0	0	-
31	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
31	3.4	Historical landfill (EA/NRW records)	0	0	0	2	-
31	3.5	Historical waste sites	0	0	0	3	-
32	3.6	Licensed waste sites	0	0	0	2	-
33	3.7	Waste exemptions	105	20	31	8	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
46	4.1	Recent industrial land uses	39	4	12	-	-
51	4.2	Current or recent petrol stations	0	0	1	1	-
51	4.3	Electricity cables	0	0	0	0	-
51	4.4	Gas pipelines	0	0	0	0	-
51	4.5	Sites determined as Contaminated Land	0	0	0	0	-

51	4.6	Control of Major Accident Hazards (COMAH)	1	0	0	0	-
52	4.7	Regulated explosive sites	0	0	0	0	-
52	4.8	Hazardous substance storage/usage	0	1	0	0	-
52	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
53	4.10	Licensed industrial activities (Part A(1))	0	0	3	19	-
56	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	1	-
57	4.12	Radioactive Substance Authorisations	0	0	0	0	-
57	4.13	Licensed Discharges to controlled waters	3	3	3	6	-
59	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
60	4.15	Pollutant release to public sewer	0	0	0	0	-
60	4.16	List 1 Dangerous Substances	0	0	0	0	-
60	4.17	List 2 Dangerous Substances	0	0	1	1	-
60	4.18	Pollution Incidents (EA/NRW)	0	3	4	8	-
62	4.19	Pollution inventory substances	0	0	0	0	-
62	4.20	Pollution inventory waste transfers	0	0	0	0	-
63	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
64	5.1	Superficial aquifer	Identified (within 500m)				
67	5.2	Bedrock aquifer	Identified (within 500m)				
69	5.3	Groundwater vulnerability	Identified (within 50m)				
77	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
78	5.5	Groundwater vulnerability- local information	Identified (within 0m)				
79	5.6	Groundwater abstractions	0	1	3	2	5
82	5.7	Surface water abstractions	2	0	3	2	19
88	5.8	Potable abstractions	0	0	0	0	0
88	5.9	Source Protection Zones	2	0	0	0	-
88	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
89	6.1	Water Network (OS MasterMap)	303	132	166	-	-

136	6.2	Surface water features	1	69	81	-	-
136	6.3	WFD Surface water body catchments	3	-	-	-	-
137	6.4	WFD Surface water bodies	2	0	0	-	-
137	6.5	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
138	7.1	Risk of flooding from rivers and the sea	High (within 50m)				
139	7.2	Historical Flood Events	0	0	0	-	-
139	7.3	Flood Defences	3	3	0	-	-
140	7.4	Areas Benefiting from Flood Defences	3	0	3	-	-
140	7.5	Flood Storage Areas	0	0	0	-	-
141	7.6	Flood Zone 2	Identified (within 50m)				
142	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
143	8.1	Surface water flooding	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
145	9.1	Groundwater flooding	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
146	10.1	Sites of Special Scientific Interest (SSSI)	1	0	0	0	0
147	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
147	10.3	Special Areas of Conservation (SAC)	1	0	0	0	0
147	10.4	Special Protection Areas (SPA)	2	0	0	0	2
148	10.5	National Nature Reserves (NNR)	1	0	0	0	2
149	10.6	Local Nature Reserves (LNR)	0	0	0	0	1
149	10.7	Designated Ancient Woodland	0	0	0	0	0
149	10.8	Biosphere Reserves	0	0	0	0	0
149	10.9	Forest Parks	0	0	0	0	0
150	10.10	Marine Conservation Zones	0	0	0	0	0
150	10.11	Green Belt	0	0	0	0	0
150	10.12	Proposed Ramsar sites	0	0	0	0	0

150	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
150	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
151	10.15	Nitrate Sensitive Areas	0	0	0	0	0
151	**10.16**	**Nitrate Vulnerable Zones**	3	1	1	0	5
152	**10.17**	**SSSI Impact Risk Zones**	11	-	-	-	-
159	**10.18**	**SSSI Units**	4	0	1	0	14
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
169	11.1	World Heritage Sites	0	0	0	-	-
169	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
169	11.3	National Parks	0	0	0	-	-
169	11.4	Listed Buildings	0	0	0	-	-
170	11.5	Conservation Areas	0	0	0	-	-
170	11.6	Scheduled Ancient Monuments	0	0	0	-	-
170	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
171	**12.1**	**Agricultural Land Classification**	Urban (within 250m)				
172	**12.2**	**Open Access Land**	2	0	0	-	-
173	**12.3**	**Tree Felling Licences**	0	0	1	-	-
173	12.4	Environmental Stewardship Schemes	0	0	0	-	-
173	**12.5**	**Countryside Stewardship Schemes**	7	1	1	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
175	**13.1**	**Priority Habitat Inventory**	30	30	38	-	-
180	**13.2**	**Habitat Networks**	14	1	9	-	-
182	**13.3**	**Open Mosaic Habitat**	1	0	0	-	-
182	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
183	**14.1**	**10k Availability**	Identified (within 500m)				
185	14.2	Artificial and made ground (10k)	0	0	0	0	-
186	**14.3**	**Superficial geology (10k)**	23	2	10	5	-

188	14.4	Landslip (10k)	0	0	0	0	-
189	**14.5**	**Bedrock geology (10k)**	4	0	1	1	-
190	**14.6**	**Bedrock faults and other linear features (10k)**	3	0	1	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
191	**15.1**	**50k Availability**	Identified (within 500m)				
192	15.2	Artificial and made ground (50k)	0	0	0	0	-
192	15.3	Artificial ground permeability (50k)	0	0	-	-	-
193	**15.4**	**Superficial geology (50k)**	24	2	7	5	-
195	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
196	15.6	Landslip (50k)	0	0	0	0	-
196	15.7	Landslip permeability (50k)	None (within 50m)				
197	**15.8**	**Bedrock geology (50k)**	2	0	0	1	-
198	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
198	**15.10**	**Bedrock faults and other linear features (50k)**	2	0	0	1	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
199	**16.1**	**BGS Boreholes**	6	7	33	-	-
Page	Section	Natural ground subsidence					
202	**17.1**	**Shrink swell clays**	Low (within 50m)				
204	**17.2**	**Running sands**	Low (within 50m)				
206	**17.3**	**Compressible deposits**	High (within 50m)				
208	**17.4**	**Collapsible deposits**	Very low (within 50m)				
209	**17.5**	**Landslides**	Low (within 50m)				
211	**17.6**	**Ground dissolution of soluble rocks**	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
213	18.1	Natural cavities	0	0	0	0	-
214	**18.2**	**BritPits**	0	0	2	1	-
214	**18.3**	**Surface ground workings**	30	7	23	-	-
217	**18.4**	**Underground workings**	3	1	0	1	0
217	**18.5**	**Historical Mineral Planning Areas**	1	0	0	0	-

218	18.6	Non-coal mining	0	0	0	0	0
218	18.7	Mining cavities	0	0	0	0	0
218	18.8	JPB mining areas	None (within 0m)				
218	**18.9**	**Coal mining**	Identified (within 0m)				
219	18.10	Brine areas	None (within 0m)				
219	18.11	Gypsum areas	None (within 0m)				
219	18.12	Tin mining	None (within 0m)				
219	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
220	**19.1**	**Radon**	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
222	**20.1**	**BGS Estimated Background Soil Chemistry**	172	22	-	-	-
229	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
229	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
230	21.1	Underground railways (London)	0	0	0	-	-
230	21.2	Underground railways (Non-London)	0	0	0	-	-
231	21.3	Railway tunnels	0	0	0	-	-
231	**21.4**	**Historical railway and tunnel features**	12	4	17	-	-
232	21.5	Royal Mail tunnels	0	0	0	-	-
233	21.6	Historical railways	0	0	0	-	-
233	**21.7**	**Railways**	10	3	8	-	-
234	21.8	Crossrail 1	0	0	0	0	-
234	21.9	Crossrail 2	0	0	0	0	-
234	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 20/10/2019

Site Area: 733.34ha

Recent site history - 2016 aerial photograph



Capture Date: 21/04/2016

Site Area: 733.34ha

Recent site history - 2013 aerial photograph



Capture Date: 07/06/2013

Site Area: 733.34ha

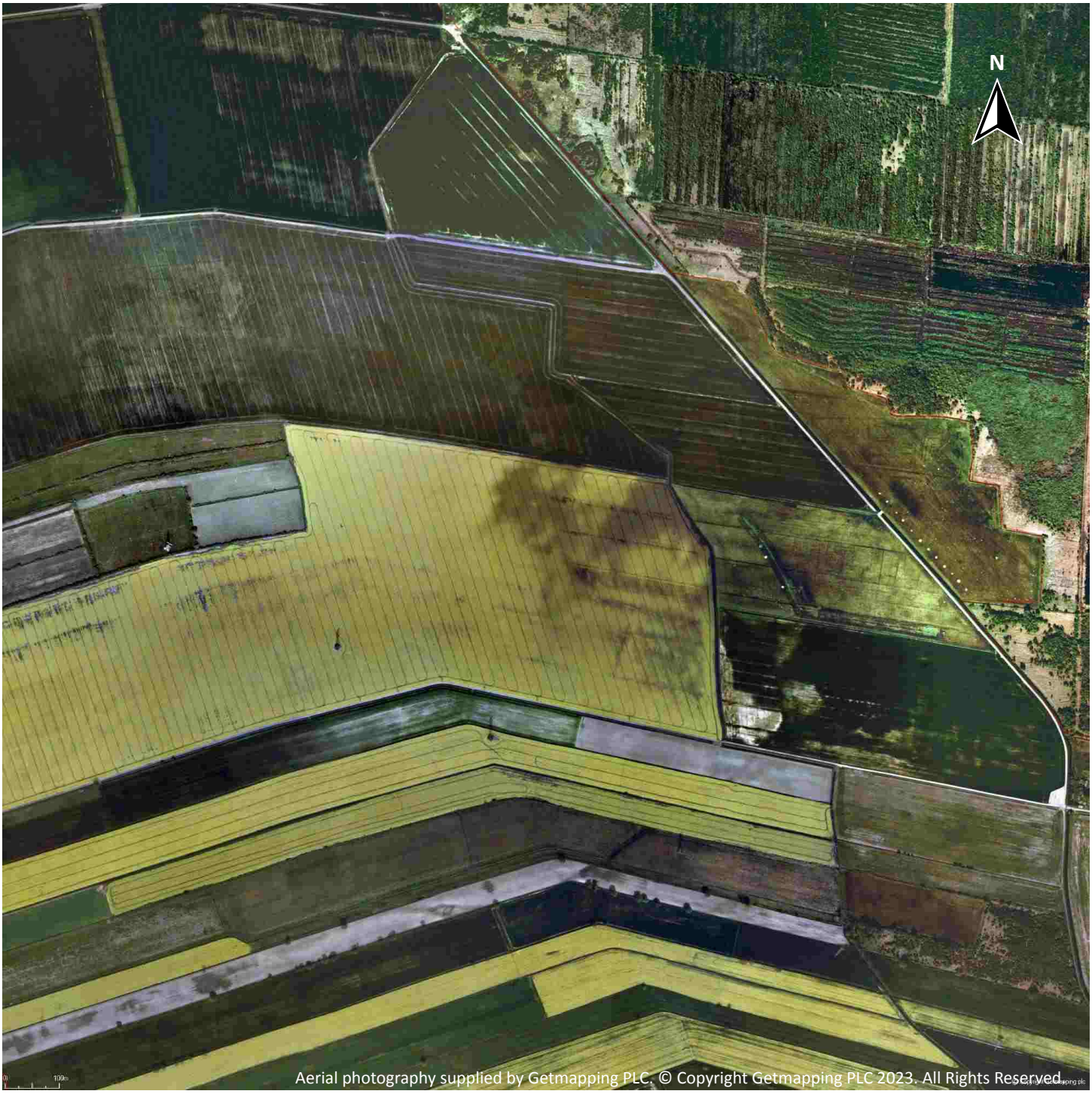
Recent site history - 2009 aerial photograph



Capture Date: 02/07/2009

Site Area: 733.34ha

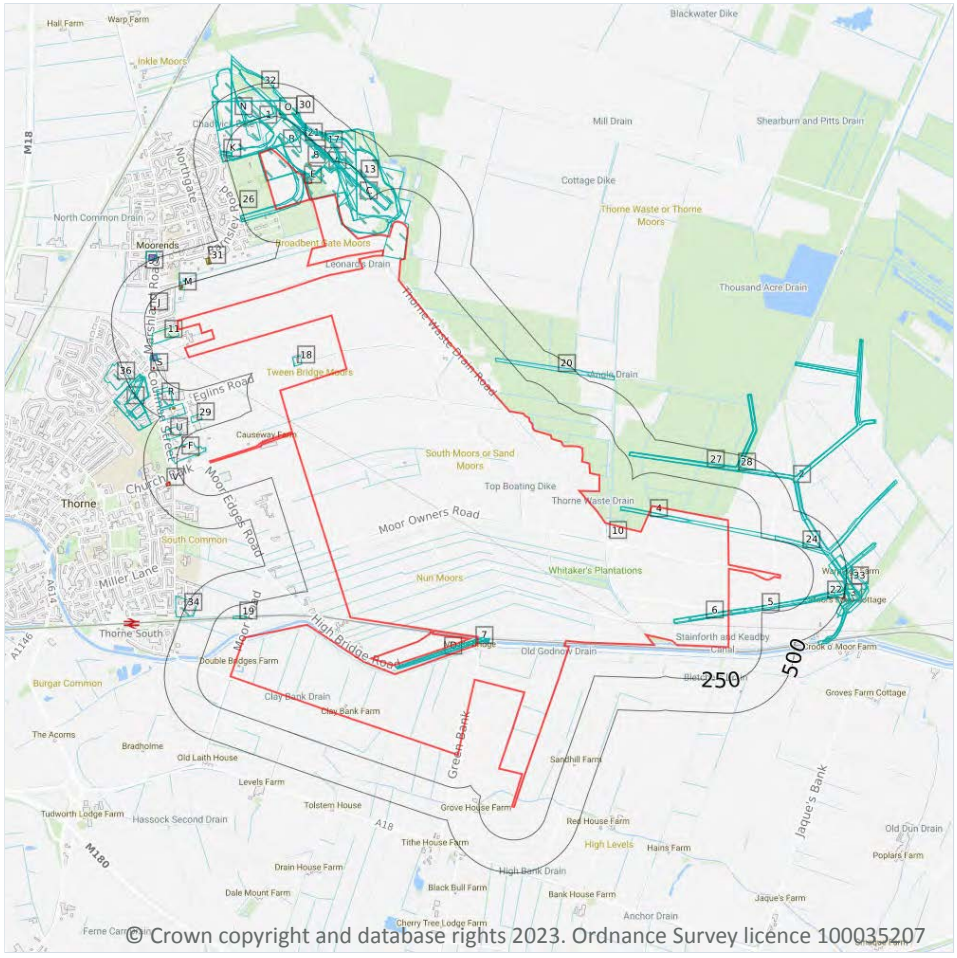
Recent site history - 1999 aerial photograph



Capture Date: 03/05/1999

Site Area: 733.34ha

1 Past land use



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1.1 Historical industrial land uses

Records within 500m	80

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Mineral Railway Sidings**	**1969**	**1458103**

ID	Location	Land use	Dates present	Group ID
2	**On site**	**Tramway Sidings**	**1906**	**1472097**
3	**On site**	**Tramway Sidings**	**1908**	**1476055**
4	**On site**	**Tramway Sidings**	**1908**	**1478765**
5	**On site**	**Tramway Sidings**	**1948**	**1481028**
6	**On site**	**Tramway Sidings**	**1948**	**1503072**
7	**On site**	**Railway Sidings**	**1948**	**1518528**
8	**On site**	**Tramway Sidings**	**1930**	**1520385**
9	**On site**	**Colliery**	**1930**	**1556508**
A	**On site**	**Unspecified Mine**	**1969**	**1455601**
A	**On site**	**Colliery**	**1951**	**1500690**
B	**On site**	**Colliery**	**1949**	**1458266**
B	**On site**	**Mineral Railway Sidings**	**1949**	**1471629**
B	**On site**	**Mineral Railway Sidings**	**1930**	**1499844**
C	**On site**	**Refuse Heap**	**1969**	**1462696**
C	**On site**	**Refuse Heap**	**1983**	**1505197**
D	**On site**	**Railway Sidings**	**1908**	**1495008**
D	**On site**	**Railway Sidings**	**1891**	**1502989**
D	**On site**	**Railway Sidings**	**1955 - 1968**	**1523075**
B	8m NW	Colliery	1983	1475959
11	9m NW	Nursery	1974	1440150
E	16m NW	Unspecified Tanks	1983	1426355
12	17m NW	Tramway Sidings	1951	1496959
C	25m N	Refuse Heap	1930 - 1949	1485416
13	30m N	Refuse Heap	1951	1530129
14	83m N	Cooling Ponds	1930 - 1951	1522712
F	84m W	Unspecified Factory	1982	1430757
15	95m NW	Unspecified Pit	1949 - 1951	1485304
16	111m N	Railway Sidings	1948	1409611

ID	Location	Land use	Dates present	Group ID
17	112m N	Mineral Railway Sidings	1951	1477642
18	140m NW	Dairy Farm	1907	1457418
19	144m SW	Cuttings	1955	1410296
I	149m N	Unspecified Tank	1949	1538765
I	150m N	Unspecified Tank	1951	1550438
I	151m N	Unspecified Tank	1930	1465824
20	172m N	Tramway Sidings	1955 - 1968	1478574
21	196m N	Railway Sidings	1983	1409610
22	198m E	Tramway Sidings	1891	1498438
K	209m NW	Railway Sidings	1951	1409609
K	212m NW	Unspecified Heap	1967	1417758
L	220m NW	Garage	1974	1457887
M	224m NW	Sewage Pumping Station	1930 - 1949	1512641
23	225m NW	Brick Works	1951	1539103
M	228m NW	Unspecified Tanks	1966 - 1982	1495323
24	248m E	Tramway Sidings	1891	1548457
N	249m NW	Brick Works	1949	1506077
N	249m NW	Brick Works	1930	1540911
O	263m NW	Refuse Heap	1949	1471207
N	265m NW	Unspecified Pit	1951	1474389
O	266m NW	Refuse Heap	1930	1515180
P	267m NW	Unspecified Pit	1930 - 1949	1489191
M	268m NW	Unspecified Tanks	1966 - 1982	1479892
R	270m NW	Unspecified Factory	1974 - 1982	1535735
M	271m NW	Unspecified Tanks	1966 - 1982	1541672
27	272m E	Tramway Sidings	1948	1490897
28	272m E	Tramway Sidings	1948	1497099
T	276m N	Refuse Heap	1949	1522036

ID	Location	Land use	Dates present	Group ID
R	288m NW	Unspecified Factory	1966	1556368
U	293m W	Unspecified Works	1974 - 1982	1523216
P	294m NW	Unspecified Pit	1951	1472854
T	303m N	Unspecified Tank	1969	1434939
29	318m W	Unspecified Works	1982	1438800
30	342m N	Unspecified Shaft	1904	1425284
W	353m NW	Unspecified Factory	1974 - 1982	1515360
32	362m NW	Railway Sidings	1948	1409608
X	364m NW	Brick Works	1949	1529737
X	370m NW	Bricks Works	1930	1539427
33	372m E	Peat Works	1948	1527788
X	372m NW	Unspecified Pits	1949	1423404
X	374m NW	Unspecified Ground Workings	1930	1507293
Y	401m E	Tramway Sidings	1948 - 1955	1503073
34	417m W	Nursery	1982	1440151
Y	424m E	Peat Works	1908	1494382
35	452m E	Tramway Sidings	1948	1490971
36	471m NW	Unspecified Works	1966 - 1982	1510755
Y	476m E	Peat Works	1955 - 1968	1492146
38	482m W	Brick Works	1907	1545541
Y	485m E	Tramway Sidings	1968	1483303
Z	492m NW	Unspecified Works	1967	1438813
39	496m W	Unspecified Pit	1955	1455461

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	26

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
10	**On site**	**Tanks**	**1961**	**232349**
G	91m N	Tanks	1961	232312
H	96m W	Tanks	1979	232351
G	96m N	Tanks	1961	232313
H	97m W	Unspecified Tank	1985	243310
H	97m W	Unspecified Tank	1996	247719
H	100m W	Tanks	1979	232350
F	223m W	Unspecified Tank	1979 - 1996	247049
M	225m NW	Unspecified Tank	1989 - 1990	236118
M	225m NW	Unspecified Tank	1964	238634
M	226m NW	Unspecified Tank	1970	228123
M	231m NW	Tanks	1961	235242
M	233m NW	Tanks	1989 - 1990	234898
M	233m NW	Tanks	1964	236374
M	237m NW	Tanks	1970	234924
25	248m W	Unspecified Tank	1979	229325
Q	269m W	Unspecified Tank	1979 - 1996	241940
Q	270m W	Unspecified Tank	1985	235233
T	303m N	Unspecified Tank	1961	228121
31	345m NW	Unspecified Tank	1990	228122
W	396m W	Unspecified Tank	1964	229328

ID	Location	Land use	Dates present	Group ID
W	400m W	Unspecified Tank	1985	244075
W	400m W	Unspecified Tank	1979 - 1996	236351
W	402m W	Unspecified Tank	1964	246625
W	407m W	Unspecified Tank	1996	238684
W	414m W	Unspecified Tank	1979 - 1996	250277

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m **19**

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
E	15m NW	Electricity Substation	1985	130748
J	192m NW	Electricity Substation	1970 - 1996	140144
J	193m NW	Electricity Substation	1964	144918
F	218m W	Electricity Substation	1985 - 1996	138281
F	218m W	Electricity Substation	1979	132401
F	221m W	Electricity Substation	1964	132647
26	253m NW	Electricity Substation	1985	130749
K	259m NW	Electricity Substation	1970 - 1995	136212
K	260m NW	Electricity Substation	1964	137322
S	273m NW	Electricity Substation	1989 - 1996	139210
S	274m NW	Electricity Substation	1964	136755
V	343m W	Electricity Substation	1985 - 1996	139065
V	343m W	Electricity Substation	1979	133318

ID	Location	Land use	Dates present	Group ID
V	345m W	Electricity Substation	1996	137690
W	382m W	Electricity Substation	1990	140929
W	382m W	Electricity Substation	1996	140823
U	385m W	Electricity Substation	1979 - 1996	141697
U	386m W	Electricity Substation	1964	144118
37	475m NW	Electricity Substation	1970 - 1995	143098

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	**7**

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
L	220m NW	Garage	1970	43546
L	222m NW	Garage	1964	43756
L	255m NW	Garage	1961	43321
Z	486m NW	Garage	1970	41724
Z	486m NW	Garage	1990	41814

ID	Location	Land use	Dates present	Group ID
Z	489m NW	Garage	1961	43654
Z	497m NW	Garage	1964	43531

This data is sourced from Ordnance Survey / Groundsure.

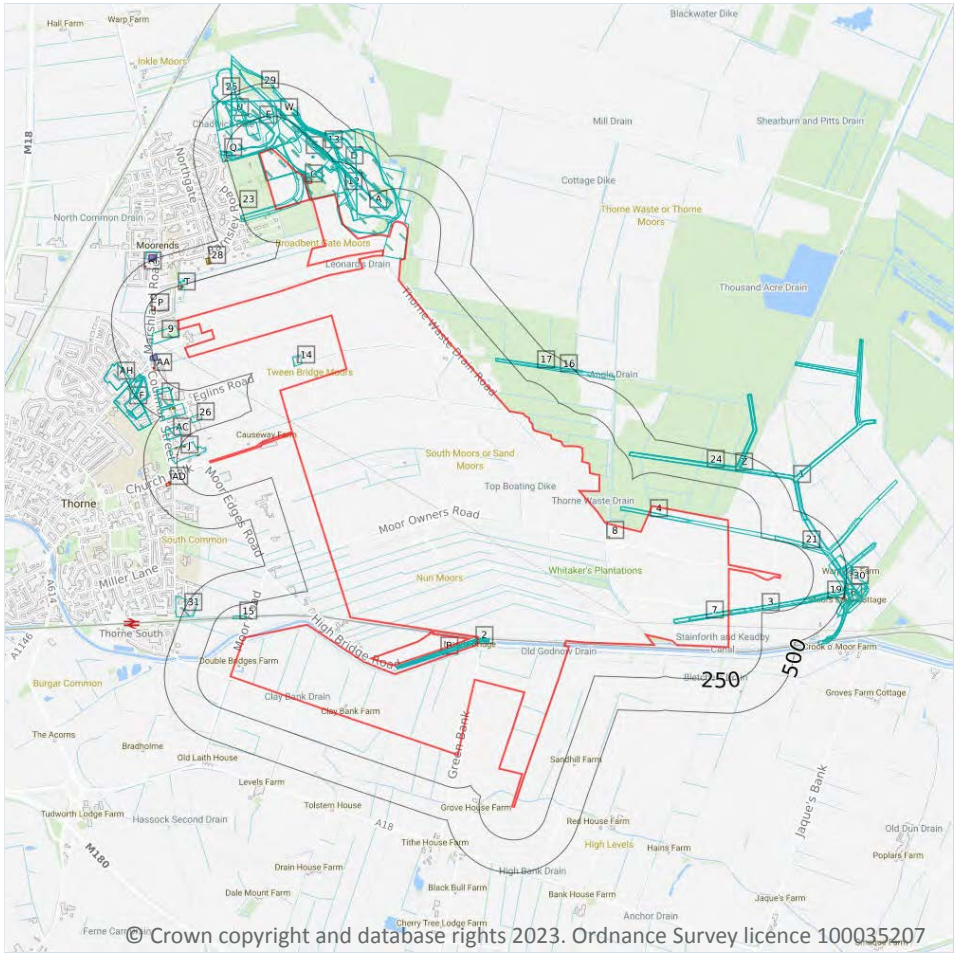
1.6 Historical military land

Records within 500m	**0**

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

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

2 Past land use - un-grouped



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2.1 Historical industrial land uses

Records within 500m	114

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 21**

ID	Location	Land Use	Date	Group ID
1	On site	Tramway Sidings	1906	1472097
2	On site	Railway Sidings	1948	1518528
3	On site	Tramway Sidings	1948	1481028

ID	Location	Land Use	Date	Group ID
4	**On site**	**Tramway Sidings**	**1908**	**1478765**
5	**On site**	**Tramway Sidings**	**1930**	**1520385**
6	**On site**	**Tramway Sidings**	**1908**	**1476055**
7	**On site**	**Tramway Sidings**	**1948**	**1503072**
A	**On site**	**Refuse Heap**	**1983**	**1505197**
A	**On site**	**Refuse Heap**	**1969**	**1462696**
B	**On site**	**Railway Sidings**	**1968**	**1523075**
B	**On site**	**Railway Sidings**	**1955**	**1523075**
B	**On site**	**Railway Sidings**	**1891**	**1502989**
B	**On site**	**Railway Sidings**	**1908**	**1495008**
C	**On site**	**Mineral Railway Sidings**	**1949**	**1471629**
C	**On site**	**Colliery**	**1949**	**1458266**
D	**On site**	**Colliery**	**1951**	**1500690**
D	**On site**	**Unspecified Mine**	**1969**	**1455601**
E	**On site**	**Mineral Railway Sidings**	**1969**	**1458103**
F	**On site**	**Colliery**	**1930**	**1556508**
F	**On site**	**Colliery**	**1930**	**1556508**
C	8m NW	Colliery	1983	1475959
9	9m NW	Nursery	1974	1440150
E	11m NW	Mineral Railway Sidings	1930	1499844
G	16m NW	Unspecified Tanks	1983	1426355
10	17m NW	Tramway Sidings	1951	1496959
H	25m N	Refuse Heap	1948	1485416
11	30m N	Refuse Heap	1951	1530129
12	76m N	Refuse Heap	1949	1485416
I	83m N	Cooling Ponds	1949	1522712
J	84m W	Unspecified Factory	1982	1430757
I	86m N	Cooling Ponds	1930	1522712

ID	Location	Land Use	Date	Group ID
I	86m N	Cooling Ponds	1930	1522712
I	88m N	Cooling Ponds	1951	1522712
L	95m NW	Unspecified Pit	1951	1485304
H	111m N	Railway Sidings	1948	1409611
13	112m N	Mineral Railway Sidings	1951	1477642
14	140m NW	Dairy Farm	1907	1457418
15	144m SW	Cuttings	1955	1410296
L	147m NW	Unspecified Pit	1949	1485304
N	149m N	Unspecified Tank	1949	1538765
N	150m N	Unspecified Tank	1951	1550438
N	151m N	Unspecified Tank	1930	1465824
O	166m N	Refuse Heap	1930	1485416
O	166m N	Refuse Heap	1930	1485416
16	172m N	Tramway Sidings	1955	1478574
17	174m N	Tramway Sidings	1968	1478574
18	196m N	Railway Sidings	1983	1409610
19	198m E	Tramway Sidings	1891	1498438
Q	209m NW	Railway Sidings	1951	1409609
Q	212m NW	Unspecified Heap	1967	1417758
S	220m N	Refuse Heap	1930	1485416
S	220m N	Refuse Heap	1930	1485416
R	220m NW	Garage	1974	1457887
T	224m NW	Sewage Pumping Station	1949	1512641
20	225m NW	Brick Works	1951	1539103
T	226m NW	Sewage Pumping Station	1930	1512641
T	228m NW	Unspecified Tanks	1966	1495323
T	228m NW	Unspecified Tanks	1974	1495323
T	228m NW	Unspecified Tanks	1982	1495323

ID	Location	Land Use	Date	Group ID
21	248m E	Tramway Sidings	1891	1548457
U	249m NW	Brick Works	1949	1506077
V	251m NW	Brick Works	1930	1540911
V	251m NW	Brick Works	1930	1540911
W	263m NW	Refuse Heap	1949	1471207
U	265m NW	Unspecified Pit	1951	1474389
W	266m NW	Refuse Heap	1930	1515180
W	266m NW	Refuse Heap	1930	1515180
U	267m NW	Unspecified Pit	1949	1489191
T	268m NW	Unspecified Tanks	1966	1479892
T	268m NW	Unspecified Tanks	1974	1479892
T	268m NW	Unspecified Tanks	1982	1479892
U	269m NW	Unspecified Pit	1930	1489191
U	269m NW	Unspecified Pit	1930	1489191
Y	270m NW	Unspecified Factory	1974	1535735
Y	270m NW	Unspecified Factory	1982	1535735
Z	270m E	Tramway Sidings	1908	1476055
T	271m NW	Unspecified Tanks	1966	1541672
T	271m NW	Unspecified Tanks	1974	1541672
T	271m NW	Unspecified Tanks	1982	1541672
24	272m E	Tramway Sidings	1948	1490897
Z	272m E	Tramway Sidings	1948	1497099
AB	276m N	Refuse Heap	1949	1522036
Y	288m NW	Unspecified Factory	1966	1556368
AC	293m W	Unspecified Works	1974	1523216
AC	293m W	Unspecified Works	1982	1523216
25	294m NW	Unspecified Pit	1951	1472854
AB	303m N	Unspecified Tank	1969	1434939

ID	Location	Land Use	Date	Group ID
26	318m W	Unspecified Works	1982	1438800
27	342m N	Unspecified Shaft	1904	1425284
AE	353m NW	Unspecified Factory	1982	1515360
29	362m NW	Railway Sidings	1948	1409608
AF	364m NW	Brick Works	1949	1529737
AF	370m NW	Bricks Works	1930	1539427
AF	370m NW	Bricks Works	1930	1539427
30	372m E	Peat Works	1948	1527788
AF	372m NW	Unspecified Pits	1949	1423404
AF	374m NW	Unspecified Ground Workings	1930	1507293
AF	374m NW	Unspecified Ground Workings	1930	1507293
AE	389m W	Unspecified Factory	1974	1515360
AG	401m E	Tramway Sidings	1948	1503073
31	417m W	Nursery	1982	1440151
AG	424m E	Peat Works	1908	1494382
AG	441m E	Tramway Sidings	1955	1503073
32	452m E	Tramway Sidings	1948	1490971
33	457m NW	Unspecified Pit	1948	1489191
AH	471m NW	Unspecified Works	1966	1510755
AH	471m NW	Unspecified Works	1974	1510755
AH	471m NW	Unspecified Works	1982	1510755
AG	476m E	Peat Works	1968	1492146
34	482m W	Brick Works	1907	1545541
AG	485m E	Tramway Sidings	1968	1483303
AJ	492m NW	Unspecified Works	1967	1438813
AG	494m E	Peat Works	1955	1492146
35	496m W	Unspecified Pit	1955	1455461

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**40**

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 21**

ID	Location	Land Use	Date	Group ID
8	**On site**	**Tanks**	**1961**	**232349**
K	91m N	Tanks	1961	232312
M	96m W	Tanks	1979	232351
K	96m N	Tanks	1961	232313
M	97m W	Unspecified Tank	1985	243310
M	97m W	Unspecified Tank	1996	247719
M	97m W	Unspecified Tank	1996	247719
M	100m W	Tanks	1979	232350
J	223m W	Unspecified Tank	1979	247049
J	223m W	Unspecified Tank	1985	247049
J	223m W	Unspecified Tank	1996	247049
J	223m W	Unspecified Tank	1996	247049
T	225m NW	Unspecified Tank	1964	238634
T	225m NW	Unspecified Tank	1989	236118
T	225m NW	Unspecified Tank	1990	236118
T	226m NW	Unspecified Tank	1970	228123
T	231m NW	Tanks	1961	235242
T	233m NW	Tanks	1964	236374
T	233m NW	Tanks	1989	234898
T	233m NW	Tanks	1990	234898
T	237m NW	Tanks	1970	234924
22	248m W	Unspecified Tank	1979	229325
X	269m W	Unspecified Tank	1996	241940

ID	Location	Land Use	Date	Group ID
X	269m W	Unspecified Tank	1996	241940
X	269m W	Unspecified Tank	1979	241940
X	270m W	Unspecified Tank	1985	235233
AB	303m N	Unspecified Tank	1961	228121
28	345m NW	Unspecified Tank	1990	228122
AE	396m W	Unspecified Tank	1964	229328
AE	400m W	Unspecified Tank	1985	244075
AE	400m W	Unspecified Tank	1996	236351
AE	400m W	Unspecified Tank	1996	236351
AE	400m W	Unspecified Tank	1979	236351
AE	402m W	Unspecified Tank	1964	246625
AE	407m W	Unspecified Tank	1996	238684
AE	407m W	Unspecified Tank	1996	238684
AE	414m W	Unspecified Tank	1985	250277
AE	414m W	Unspecified Tank	1996	250277
AE	414m W	Unspecified Tank	1996	250277
AE	415m W	Unspecified Tank	1979	250277

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m **37**

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

Features are displayed on the Past land use - un-grouped map on **page 21**

ID	Location	Land Use	Date	Group ID
G	15m NW	Electricity Substation	1985	130748
P	192m NW	Electricity Substation	1996	140144
P	192m NW	Electricity Substation	1996	140144

ID	Location	Land Use	Date	Group ID
P	192m NW	Electricity Substation	1970	140144
P	193m NW	Electricity Substation	1964	144918
P	193m NW	Electricity Substation	1989	140144
P	193m NW	Electricity Substation	1990	140144
J	218m W	Electricity Substation	1996	138281
J	218m W	Electricity Substation	1996	138281
J	218m W	Electricity Substation	1979	132401
J	218m W	Electricity Substation	1985	138281
J	221m W	Electricity Substation	1964	132647
23	253m NW	Electricity Substation	1985	130749
Q	259m NW	Electricity Substation	1995	136212
Q	260m NW	Electricity Substation	1964	137322
Q	260m NW	Electricity Substation	1970	136212
Q	260m NW	Electricity Substation	1990	136212
AA	273m NW	Electricity Substation	1996	139210
AA	273m NW	Electricity Substation	1996	139210
AA	274m NW	Electricity Substation	1964	136755
AA	274m NW	Electricity Substation	1989	139210
AA	274m NW	Electricity Substation	1990	139210
AD	343m W	Electricity Substation	1985	139065
AD	343m W	Electricity Substation	1979	133318
AD	345m W	Electricity Substation	1996	139065
AD	345m W	Electricity Substation	1996	137690
AE	382m W	Electricity Substation	1990	140929
AE	382m W	Electricity Substation	1996	140823
AE	382m W	Electricity Substation	1996	140823
AC	385m W	Electricity Substation	1985	141697
AC	386m W	Electricity Substation	1996	141697

ID	Location	Land Use	Date	Group ID
AC	386m W	Electricity Substation	1996	141697
AC	386m W	Electricity Substation	1979	141697
AC	386m W	Electricity Substation	1964	144118
AI	475m NW	Electricity Substation	1995	143098
AI	476m NW	Electricity Substation	1970	143098
AI	476m NW	Electricity Substation	1990	143098

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	**7**

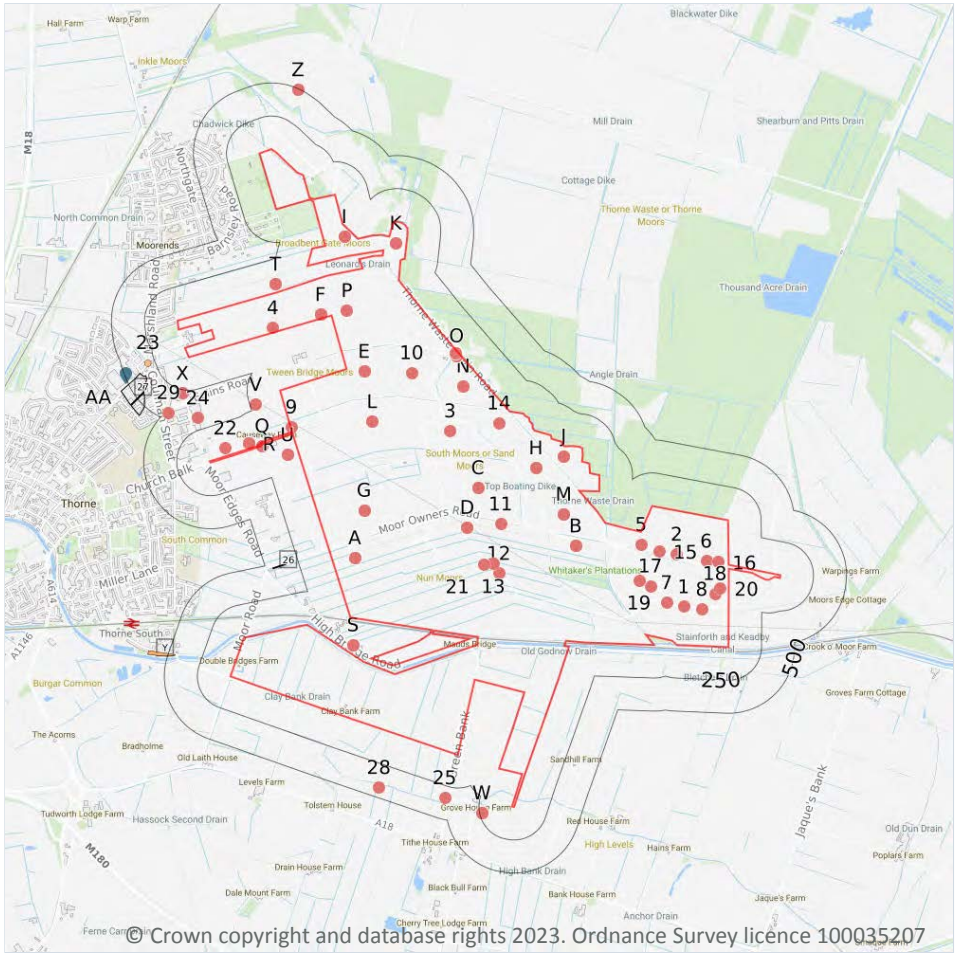
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 21**

ID	Location	Land Use	Date	Group ID
R	220m NW	Garage	1970	43546
R	222m NW	Garage	1964	43756
R	255m NW	Garage	1961	43321
AJ	486m NW	Garage	1970	41724
AJ	486m NW	Garage	1990	41814
AJ	489m NW	Garage	1961	43654
AJ	497m NW	Garage	1964	43531

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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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	2

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

Features are displayed on the Waste and landfill map on **page 30**

ID	Location	Details		
26	346m W	Site Address: Long Meadows Farm, Moor Edges Road, Mooredges, Thorne, Doncaster, South Yorkshire Licence Holder Address: Long Meadows Farm, Mooredges, Thorne	Waste Licence: Yes Site Reference: WD20 D402, 4400/D402, WDL D402 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20/07/1983 Licence Surrender: 08/12/1993	Operator: - Licence Holder: L E White First Recorded 13/04/1984 Last Recorded: 08/12/1993
27	354m NW	Site Address: Brickworks, Brickworks, King Edward Road, Thorne Licence Holder Address: -	Waste Licence: - Site Reference: 4400/(71), 6930, 1415 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Thorne Rural District Council First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	3

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

Features are displayed on the Waste and landfill map on **page 30**

ID	Location	Address	Further Details	Date
23	279m NW	Site Address: Chesterfield Poultry Company, Coulman Street, Thorne, Doncaster, South Yorkshire, DN8 5JS	Type of Site: Effluent Treatment Plant Planning application reference: 15/00742/FULM Description: Scheme comprises construction of effluent treatment plant. The associated works include sewer systems, landscaping, infrastructure, enabling works, cable laying and access roads. Data source: Historic Planning Application Data Type: Point	08/07/2015
Y	445m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1975
Y	447m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1984

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

3.6 Licensed waste sites

Records within 500m	**2**

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

Features are displayed on the Waste and landfill map on **page 30**

ID	Location	Details		
AA	496m NW	Site Name: 4 Rings Spares Ltd Site Address: Frontier Works, 5-7, King Edward Road, Thorne, Doncaster, South Yorkshire, DN8 4HU Correspondence Address: -	Type of Site: ELV Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FOU001 EPR reference: EA/EPR/CP3190CD/A001 Operator: 4 Rings Spares Ltd Waste Management licence No: 43596 Annual Tonnage: 2499	Issue Date: 04/11/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
AA	496m NW	Site Name: 4 Rings Spares Limited Site Address: Frontier Works, 5-7, King Edward Road, Thorne, Doncaster, South Yorkshire, DN8 4HU Correspondence Address: -	Type of Site: ELV Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FOU001 EPR reference: EA/EPR/CP3190CD/S002 Operator: 4 Rings Spares Limited Waste Management licence No: 43596 Annual Tonnage: 0	Issue Date: 04/11/2004 Effective Date: - Modified: - Surrendered Date: Aug 1 2018 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

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

3.7 Waste exemptions

Records within 500m **164**

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 30**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	**On site**	**Paul Burtwistle Dairy Farm - Thorne Field - 35 North side of field**	**WEX262268**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**
2	**On site**	**Paul Burtwistle Dairy Farm - Thorne Field - 33 South side of field**	**WEX262267**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**
3	**On site**	**DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX**	**WEX168470**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
4	**On site**	**DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX**	**WEX155734**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**
5	**On site**	**DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX**	**WEX150254**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**
6	**On site**	**DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX**	**WEX150255**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**

ID	Location	Site	Reference	Category	Sub-Category	Description
7	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX150257	Storing waste exemption	On a Farm	Storage of sludge
8	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX150258	Storing waste exemption	On a Farm	Storage of sludge
9	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX134404	Storing waste exemption	On a farm	Storage of sludge
10	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX133204	Storing waste exemption	On a farm	Storage of sludge
11	On site	TITHE LODGE, WRESSLE, SELBY, YO8 6EN	WEX132436	Storing waste exemption	On a farm	Storage of sludge
12	On site	HALL FARM, GOOLE ROAD, MOORENDS, DONCASTER, DN8 4JX	WEX113716	Storing waste exemption	On a farm	Storage of sludge
13	On site	HALL FARM, GOOLE ROAD, MOORENDS, DONCASTER, DN8 4JX	WEX113880	Storing waste exemption	On a farm	Storage of sludge
14	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX117047	Storing waste exemption	On a farm	Storage of sludge
15	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX086052	Storing waste exemption	On a farm	Storage of sludge
16	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX086073	Storing waste exemption	On a farm	Storage of sludge
17	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX086074	Storing waste exemption	On a farm	Storage of sludge
18	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX086076	Storing waste exemption	On a farm	Storage of sludge
19	On site	DAIRY FARM BUNGALOW, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX086130	Storing waste exemption	On a farm	Storage of sludge
20	On site	DAIRY FARM BUNGALOW, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX086131	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
21	On site	HALL FARM, GOOLE ROAD, MOORENDS, DONCASTER, DN8 4JX	WEX087971	Storing waste exemption	On a farm	Storage of sludge
A	On site	-	WEX302176	Storing waste exemption	On a Farm	Storage of sludge
A	On site	-	WEX224404	Storing waste exemption	On a Farm	Storage of sludge
A	On site	-	WEX248246	Storing waste exemption	On a Farm	Storage of sludge
A	On site	-	WEX225684	Storing waste exemption	On a Farm	Storage of sludge
A	On site	-	WEX295780	Storing waste exemption	On a Farm	Storage of sludge
A	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX116148	Storing waste exemption	On a farm	Storage of sludge
A	On site	-	WEX008305	Storing waste exemption	On a farm	Storage of sludge
B	On site	-	WEX302178	Storing waste exemption	On a Farm	Storage of sludge
B	On site	-	WEX306964	Storing waste exemption	On a Farm	Storage of sludge
B	On site	-	WEX224402	Storing waste exemption	On a Farm	Storage of sludge
B	On site	-	WEX248245	Storing waste exemption	On a Farm	Storage of sludge
B	On site	-	WEX225676	Storing waste exemption	On a Farm	Storage of sludge
B	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX112736	Storing waste exemption	On a farm	Storage of sludge
B	On site	-	WEX008302	Storing waste exemption	On a farm	Storage of sludge
C	On site	-	WEX217393	Storing waste exemption	On a Farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
C	On site	Internal Stockpile Reference 7/HB1B_5303	WEX265626	Storing waste exemption	On a Farm	Storage of sludge
C	On site	Field Ref: 7/HB1B Field Name: 30 East	WEX267068	Storing waste exemption	On a Farm	Storage of sludge
C	On site	-	WEX223185	Storing waste exemption	On a Farm	Storage of sludge
C	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX112721	Storing waste exemption	On a farm	Storage of sludge
C	On site	-	WEX001285	Storing waste exemption	On a farm	Storage of sludge
D	On site	-	WEX217401	Storing waste exemption	On a Farm	Storage of sludge
D	On site	-	WEX223189	Storing waste exemption	On a Farm	Storage of sludge
D	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX116152	Storing waste exemption	On a farm	Storage of sludge
D	On site	-	WEX008307	Storing waste exemption	On a farm	Storage of sludge
E	On site	-	WEX217395	Storing waste exemption	On a Farm	Storage of sludge
E	On site	Internal Stockpile Reference 7/HB8_5303	WEX265393	Storing waste exemption	On a Farm	Storage of sludge
E	On site	Field Ref: 7/HB8 Field Name: 20 21	WEX267066	Storing waste exemption	On a Farm	Storage of sludge
E	On site	-	WEX224960	Storing waste exemption	On a Farm	Storage of sludge
F	On site	-	WEX237099	Storing waste exemption	On a Farm	Storage of sludge
F	On site	-	WEX287941	Storing waste exemption	On a Farm	Storage of sludge
F	On site	-	WEX295367	Storing waste exemption	On a Farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
G	On site	Internal Stockpile Reference 7/HB1A_5303	WEX261230	Storing waste exemption	On a Farm	Storage of sludge
G	On site	-	WEX219067	Storing waste exemption	On a Farm	Storage of sludge
G	On site	Field Ref: 7/HB1A Field Name: 30 West	WEX263257	Storing waste exemption	On a Farm	Storage of sludge
G	On site	-	WEX223183	Storing waste exemption	On a Farm	Storage of sludge
G	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX114741	Storing waste exemption	On a farm	Storage of sludge
G	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX000396	Storing waste exemption	On a farm	Storage of sludge
H	On site	-	WEX288935	Storing waste exemption	On a Farm	Storage of sludge
H	On site	-	WEX289900	Storing waste exemption	On a Farm	Storage of sludge
H	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX168468	Storing waste exemption	On a farm	Storage of sludge
H	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX078056	Storing waste exemption	On a farm	Storage of sludge
I	On site	-	WEX244041	Storing waste exemption	On a Farm	Storage of sludge
I	On site	-	WEX280045	Storing waste exemption	On a Farm	Storage of sludge
I	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX168463	Storing waste exemption	On a farm	Storage of sludge
I	On site	-	WEX165087	Storing waste exemption	On a Farm	Storage of sludge
I	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX134390	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
I	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX082611	Storing waste exemption	On a farm	Storage of sludge
J	On site	-	WEX222722	Storing waste exemption	On a Farm	Storage of sludge
J	On site	-	WEX224186	Storing waste exemption	On a Farm	Storage of sludge
J	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX116154	Storing waste exemption	On a farm	Storage of sludge
J	On site	Land @ SE725101363	EPR/RE5248VQ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
K	On site	-	WEX222721	Storing waste exemption	On a Farm	Storage of sludge
K	On site	-	WEX224191	Storing waste exemption	On a Farm	Storage of sludge
K	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX134587	Storing waste exemption	On a farm	Storage of sludge
K	On site	15, BILSTONE ROAD, TWYCROSS, ATHERSTONE, CV9 3PP	WEX097436	Storing waste exemption	On a farm	Storage of sludge
L	On site	Internal Stockpile Reference 7/HB10_5303	WEX267628	Storing waste exemption	On a Farm	Storage of sludge
L	On site	-	WEX224184	Storing waste exemption	On a Farm	Storage of sludge
L	On site	Field Ref: 7/HB10 Field Name: 25 West	WEX269494	Storing waste exemption	On a Farm	Storage of sludge
L	On site	-	WEX248244	Storing waste exemption	On a Farm	Storage of sludge
L	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX134387	Storing waste exemption	On a farm	Storage of sludge
L	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX075894	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
M	On site	Internal Stockpile Reference 7/HB14_5303	WEX268435	Storing waste exemption	On a Farm	Storage of sludge
M	On site	Field Ref: 7/HB14 Field Name: 28	WEX270072	Storing waste exemption	On a Farm	Storage of sludge
M	On site	-	WEX252417	Storing waste exemption	On a Farm	Storage of sludge
M	On site	-	WEX230273	Storing waste exemption	On a Farm	Storage of sludge
M	On site	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX168467	Storing waste exemption	On a farm	Storage of sludge
M	On site	DAIRY FARM BUNGALOW, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX078038	Storing waste exemption	On a farm	Storage of sludge
N	On site	-	WEX225137	Storing waste exemption	On a Farm	Storage of sludge
N	On site	-	WEX227457	Storing waste exemption	On a Farm	Storage of sludge
N	On site	-	WEX008304	Storing waste exemption	On a farm	Storage of sludge
O	On site	-	WEX278426	Storing waste exemption	Not on a farm	Storage of waste in a secure place
O	On site	-	WEX278426	Storing waste exemption	Not on a farm	Storage of waste in secure containers
O	On site	-	WEX278429	Storing waste exemption	Not on a farm	Storage of waste in a secure place
O	On site	-	WEX278429	Storing waste exemption	Not on a farm	Storage of waste in secure containers
O	On site	-	WEX138784	Storing waste exemption	Not on a farm	Storage of waste in secure containers
O	On site	-	WEX138784	Storing waste exemption	Not on a farm	Storage of waste in a secure place
O	On site	-	WEX138786	Storing waste exemption	Not on a farm	Storage of waste in a secure place
O	On site	-	WEX138786	Storing waste exemption	Not on a farm	Storage of waste in secure containers

ID	Location	Site	Reference	Category	Sub-Category	Description
O	**On site**	**Pump stations and all watercourses in the Doncaster East Internal Drainage Board area Details available on request**	**EPR/TE5441ZR/A001**	**Disposing of waste exemption**	**Non-Agricultural Waste Only**	**Deposit of waste from dredging of inland waters**
O	**On site**	**Pump stations and all watercourses in the Doncaster East Internal Drainage Board area Details available on request**	**EPR/TE5441ZR/A001**	**Disposing of waste exemption**	**Non-Agricultural Waste Only**	**Burning waste in the open**
O	**On site**	**Pump stations and all watercourses in the Doncaster East Internal Drainage Board area Details available on request**	**EPR/TE5441ZR/A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of waste in a secure place**
O	**On site**	**Pump stations and all watercourses in the Doncaster East Internal Drainage Board area Details available on request**	**EPR/TE5441ZR/A001**	**Using waste exemption**	**Non-Agricultural Waste Only**	**Spreading waste on agricultural land to confer benefit**
P	**On site**	**DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX**	**WEX150084**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**
P	**On site**	**DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX**	**WEX072998**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
Q	9m W	Causeway Farm Mooredges DONCASTER South Yorkshire DN8 5RY	EPR/ME5680ZA/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
Q	9m W	Causeway Farm Mooredges DONCASTER South Yorkshire DN8 5RY	EPR/ME5680ZA/A001	Using waste exemption	Agricultural Waste Only	Incorporation of ash into soil
Q	9m W	Causeway Farm Mooredges DONCASTER South Yorkshire DN8 5RY	EPR/ME5680ZA/A001	Using waste exemption	Agricultural Waste Only	Pig and poultry ash
Q	9m W	Causeway Farm Mooredges DONCASTER South Yorkshire DN8 5RY	EPR/ME5680ZA/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
Q	9m W	Causeway Farm Mooredges DONCASTER South Yorkshire DN8 5RY	EPR/ME5680ZA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
Q	9m W	Causeway Farm Mooredges DONCASTER South Yorkshire DN8 5RY	EPR/ME5680ZA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX224625	Disposing of waste exemption	On a Farm	Burning waste in the open
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX224625	Using waste exemption	On a Farm	Incorporation of ash into soil
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX224625	Using waste exemption	On a Farm	Use of waste in construction
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX215976	Storing waste exemption	On a Farm	Storage of waste in a secure place
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX215976	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX215976	Using waste exemption	On a Farm	Pig and poultry ash
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX215976	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX076736	Disposing of waste exemption	On a farm	Burning waste in the open
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX076736	Using waste exemption	On a farm	Use of waste in construction
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX076736	Using waste exemption	On a farm	Incorporation of ash into soil

ID	Location	Site	Reference	Category	Sub-Category	Description
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX062096	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX062096	Storing waste exemption	On a farm	Storage of waste in a secure place
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX062096	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
R	38m W	CAUSEWAY FARM, MOOREDGES, THORNE, DONCASTER, DN8 5RY	WEX062096	Using waste exemption	On a farm	Pig and poultry ash
22	56m W	-	WEX184687	Storing waste exemption	On a farm	Storage of sludge
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from a portable sanitary convenience
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA/A001	Treating waste exemption	Agricultural Waste Only	Aerobic composting and associated prior treatment
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction

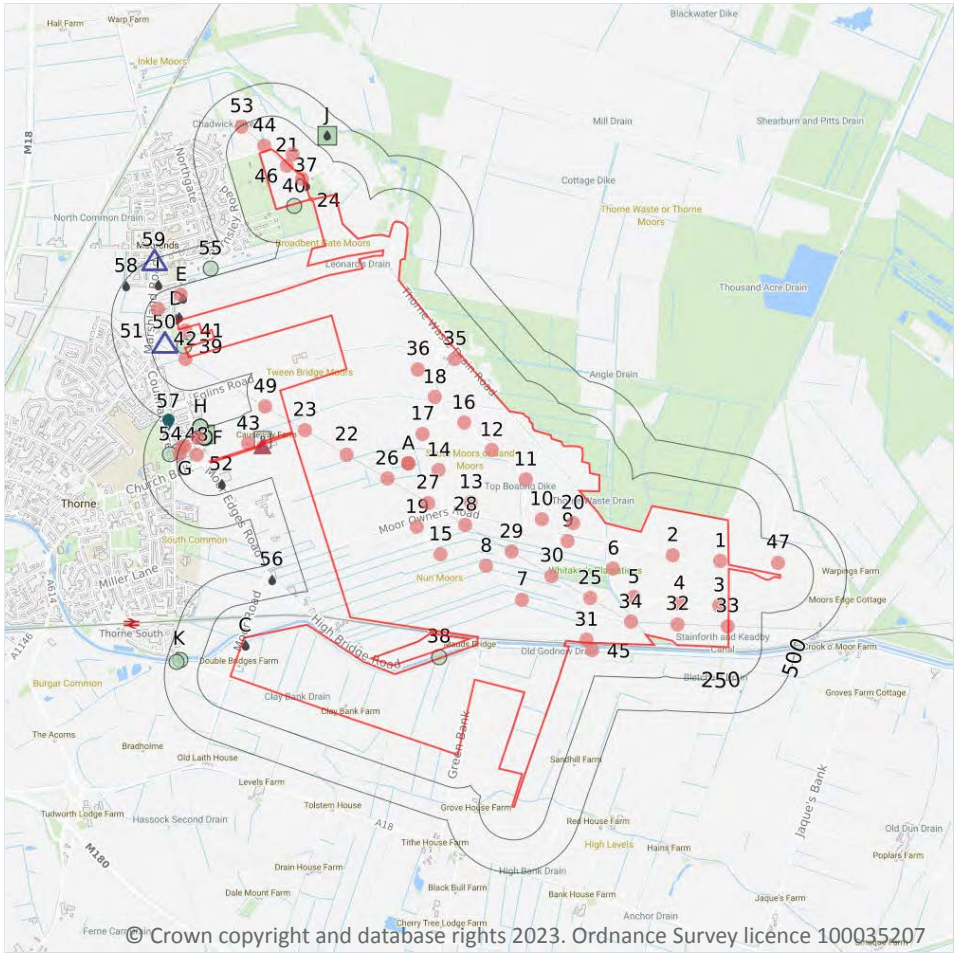
ID	Location	Site	Reference	Category	Sub-Category	Description
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA /A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA /A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
S	58m SW	Orchard Farm Mooredges DONCASTER South Yorkshire DN8 5SE	EPR/AE5856YA /A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
T	59m NW	-	WEX288957	Storing waste exemption	On a Farm	Storage of sludge
T	59m NW	-	WEX289892	Storing waste exemption	On a Farm	Storage of sludge
T	59m NW	Internal Stockpile Reference 7/HB27_5303	WEX268433	Storing waste exemption	On a Farm	Storage of sludge
T	59m NW	Field Ref: 7/HB27 Field Name: Eleven	WEX270091	Storing waste exemption	On a Farm	Storage of sludge
U	88m W	Internal Stockpile Reference 7/HB2_5303	WEX265628	Storing waste exemption	On a Farm	Storage of sludge
U	88m W	-	WEX223187	Storing waste exemption	On a Farm	Storage of sludge
U	88m W	Field Ref: 7/HB2 Field Name: 24 Large	WEX268040	Storing waste exemption	On a Farm	Storage of sludge
U	88m W	-	WEX225074	Storing waste exemption	On a Farm	Storage of sludge
U	88m W	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX134402	Storing waste exemption	On a farm	Storage of sludge
V	209m NW	-	WEX302181	Storing waste exemption	On a Farm	Storage of sludge
V	209m NW	Internal Stockpile Reference 7/HB33_5303	WEX265775	Storing waste exemption	On a Farm	Storage of sludge
V	209m NW	Field Ref: 7/HB33 Field Name: 22	WEX267069	Storing waste exemption	On a Farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
V	209m NW	-	WEX307005	Storing waste exemption	On a Farm	Storage of sludge
V	209m NW	DAIRY FARM, EGLINS ROAD, THORNE, DONCASTER, DN8 5RX	WEX184690	Storing waste exemption	On a farm	Storage of sludge
W	236m S	Grove House Farm Scunthorpe Road DONCASTER South Yorkshire DN8 5SH	EPR/ZE5588CJ /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
W	236m S	Grove House Farm Scunthorpe Road DONCASTER South Yorkshire DN8 5SH	EPR/ZE5588CJ /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
W	236m S	Grove House Farm Scunthorpe Road DONCASTER South Yorkshire DN8 5SH	EPR/ZE5588CJ /A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
W	236m S	Grove House Farm Scunthorpe Road DONCASTER South Yorkshire DN8 5SH	EPR/ZE5588CJ /A001	Using waste exemption	Agricultural Waste Only	Incorporation of ash into soil
W	236m S	Grove House Farm Scunthorpe Road DONCASTER South Yorkshire DN8 5SH	EPR/ZE5588CJ /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
X	283m NW	-	WEX260728	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
X	283m NW	COULMAN ROAD INDUSTRIAL ESTATE, THORNE, DONCASTER, DN8 5JU	WEX119383	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
24	336m W	Unit 4a P R Allen Industrial Estate, Coulman Road, Thorne, Doncaster, DN8 5JU	EA/EPR/VP398 9ZQ/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
25	344m S	-	WEX236588	Storing waste exemption	On a Farm	Storage of sludge
28	430m S	-	WEX236578	Storing waste exemption	On a Farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
29	451m W	Unit 4A, PR Allen Industrial Estate, Coulman Road, Thorne Doncaster, DN8 5JU	WEX276386	Storing waste exemption	Not on a farm	Storage of waste in a secure place
Z	487m N	-	WEX228565	Storing waste exemption	On a Farm	Storage of sludge
Z	487m N	-	WEX229732	Storing waste exemption	On a Farm	Storage of sludge

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

4 Current industrial land use



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4.1 Recent industrial land uses

Records within 250m	55

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Tween Bridge Moor Turbine**	**South Yorkshire, DN8**	**Energy Production**	**Industrial Features**

ID	Location	Company	Address	Activity	Category
2	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
3	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
4	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
5	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
6	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
7	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
8	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
9	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
10	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
11	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features

ID	Location	Company	Address	Activity	Category
12	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
13	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
14	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
15	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
16	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
17	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
18	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
19	On site	Tween Bridge Moor Turbine	South Yorkshire, DN8	Energy Production	Industrial Features
20	On site	Tween Bridge Moor	Thorne, Doncaster, West of Crowle, South Yorkshire, DN8	Energy Production	Industrial Features
21	On site	Pylon	South Yorkshire, DN8	Electrical Features	Infrastructure and Facilities
22	On site	Pylon	South Yorkshire, DN8	Electrical Features	Infrastructure and Facilities
23	On site	Pylon	South Yorkshire, DN8	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
24	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
25	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
26	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
27	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
28	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
29	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
30	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
31	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
32	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
33	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
34	**On site**	**Pylon**	**South Yorkshire, DN8**	**Electrical Features**	**Infrastructure and Facilities**
35	**On site**	**Pumping Station**	**South Yorkshire, DN8**	**Water Pumping Stations**	**Industrial Features**
36	**On site**	**Tween Bridge Wind Farm**	**South Yorkshire, DN8**	**Energy Production**	**Industrial Features**
A	**On site**	**Moorland House Farm Turbine**	**South Yorkshire, DN8**	**Energy Production**	**Industrial Features**
A	**On site**	**Moorland House Farm**	**Moor Edges Road, Thorne, Doncaster, South Yorkshire, DN8 5RY**	**Energy Production**	**Industrial Features**
A	**On site**	**Wind Turbine**	**South Yorkshire, DN8**	**Energy Production**	**Industrial Features**
41	20m NW	Poultry Houses	South Yorkshire, DN8	Poultry Farming, Equipment and Supplies	Farming

ID	Location	Company	Address	Activity	Category
42	33m NW	Pylon	South Yorkshire, DN8	Electrical Features	Infrastructure and Facilities
43	38m W	First Class Storage Services Thorne	Causeway Farm, Moor Edges Road, Thorne, Doncaster, South Yorkshire, DN8 5RY	Container and Storage	Transport, Storage and Delivery
44	42m NW	Pylon	South Yorkshire, DN8	Electrical Features	Infrastructure and Facilities
45	57m SE	Pylon	South Yorkshire, DN8	Electrical Features	Infrastructure and Facilities
46	77m NW	Thorne Farm - Solar Photovoltaics (BEIS)	Former Thorne Colliery, Grange Road, Moorends, Doncaster, South Yorkshire, DN8 4NA	Energy Production	Industrial Features
47	90m E	Tween Bridge Moor Turbine	Lincolnshire, DN8	Energy Production	Industrial Features
48	111m W	Tank	South Yorkshire, DN8	Tanks (Generic)	Industrial Features
49	142m NW	Pylon	South Yorkshire, DN8	Electrical Features	Infrastructure and Facilities
51	174m NW	Electricity Sub Station	South Yorkshire, DN8	Electrical Features	Infrastructure and Facilities
E	181m NW	Pumping Station	South Yorkshire, DN8	Water Pumping Stations	Industrial Features
F	203m W	Mast	South Yorkshire, DN8	Telecommunications Features	Infrastructure and Facilities
G	220m W	Electricity Sub Station	South Yorkshire, DN8	Electrical Features	Infrastructure and Facilities
G	232m W	Iqbal Poultry	Chesterfield Poultry Ltd, Coulman Street, Thorne, Doncaster, South Yorkshire, DN8 5JT	Fish, Meat and Poultry Products	Foodstuffs
G	237m W	Tank	South Yorkshire, DN8	Tanks (Generic)	Industrial Features
53	245m NW	Pylon	South Yorkshire, DN8	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Company	Address	LPG	Status
50	148m NW	OBSOLETE	Marshlands Road, Moorends, Doncaster, South Yorkshire, DN8 4SB	Not Applicable	Obsolete
59	492m NW	OBSOLETE	Marshlands Road, Moorends, Doncaster, South Yorkshire, DN8 4SZ	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Company	Address	Operational status	Tier
B	**On site**	**H Burtwistle & Sons**	**H Burtwistle And Sons, Moor Edges Road, Thorne, DN8 5RY**	**Historical NIHHS Site**	**-**

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	**0**

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	**1**

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

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Details	
B	8m W	Application reference number: 93/0443/P Application status: Approved Application date: 12/02/1993 Address: H Burtwistle & Sons, Causeway Farm, Moor Edges Road, Thorne, South Yorkshire, England, DN8 5RY	Details: Storage of up to 2000 tonnes of ammonium nitrate based fertiliser Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	**0**

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	**22**

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

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Details	
G	248m W	Operator: CHESTERFIELD POULTRY LTD Installation Name: CHESTERFIELD POULTRY SLAUGHTERHOUSE EPR/XP3036AR Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: WP3638RL Original Permit Number: XP3036AR	EPR Reference: - Issue Date: 12/04/2016 Effective Date: 12/04/2016 Last date noted as effective: 01/12/2022 Status: EFFECTIVE
G	248m W	Operator: CHESTERFIELD POULTRY LTD Installation Name: CHESTERFIELD POULTRY SLAUGHTERHOUSE EPR/XP3036AR Process: ASSOCIATED PROCESS Permit Number: WP3638RL Original Permit Number: XP3036AR	EPR Reference: - Issue Date: 12/04/2016 Effective Date: 12/04/2016 Last date noted as effective: 01/12/2022 Status: EFFECTIVE
G	248m W	Operator: CHESTERFIELD POULTRY LTD Installation Name: CHESTERFIELD POULTRY SLAUGHTERHOUSE EPR/XP3036AR Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: WP3638RL Original Permit Number: XP3036AR	EPR Reference: - Issue Date: 12/04/2016 Effective Date: 12/04/2016 Last date noted as effective: 01/12/2022 Status: EFFECTIVE
G	265m W	Operator: CHESTERFIELD POULTRY LTD Installation Name: CHESTERFIELD POULTRY SLAUGHTERHOUSE EPR/XP3036AR Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: XP3036AR Original Permit Number: XP3036AR	EPR Reference: - Issue Date: 16/07/2015 Effective Date: 16/07/2015 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: VION AGRICULTURE LTD Installation Name: THORNE CHICKEN PROCESSING EPR/GP3137ZG Process: ASSOCIATED PROCESS Permit Number: GP3137ZG Original Permit Number: GP3137ZG	EPR Reference: - Issue Date: 03/04/2013 Effective Date: 03/04/2013 Last date noted as effective: 01/12/2022 Status: SUPERCEDED

ID	Location	Details	
G	265m W	Operator: VION FOOD UK LIMITED Installation Name: THORNE CHICKEN PROCESSING EPR/RP3533HP Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: RP3533HP Original Permit Number: RP3533HP	EPR Reference: - Issue Date: 24/08/2010 Effective Date: 24/08/2010 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: 2 AGRICULTURE LTD Installation Name: THORNE CHICKEN PROCESSING EPR/GP3137ZG Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: BP3132ER Original Permit Number: GP3137ZG	EPR Reference: - Issue Date: 19/12/2013 Effective Date: 19/12/2013 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: CHESTERFIELD POULTRY LTD Installation Name: CHESTERFIELD POULTRY SLAUGHTERHOUSE EPR/XP3036AR Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: XP3036AR Original Permit Number: XP3036AR	EPR Reference: - Issue Date: 16/07/2015 Effective Date: 16/07/2015 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: CHESTERFIELD POULTRY LTD Installation Name: CHESTERFIELD POULTRY SLAUGHTERHOUSE EPR/XP3036AR Process: ASSOCIATED PROCESS Permit Number: XP3036AR Original Permit Number: XP3036AR	EPR Reference: - Issue Date: 16/07/2015 Effective Date: 16/07/2015 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: THORNE POULTRY LTD Installation Name: THORNE CHICKEN PROCESSING EPR/BX4348IT Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: BX4348IT Original Permit Number: BX4348IT	EPR Reference: - Issue Date: 22/03/2005 Effective Date: 22/03/2005 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: THORNE POULTRY LTD Installation Name: THORNE CHICKEN PROCESSING EPR/BX4348IT Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: BX4348IT Original Permit Number: BX4348IT	EPR Reference: - Issue Date: 22/03/2005 Effective Date: 22/03/2005 Last date noted as effective: 01/12/2022 Status: SUPERCEDED

ID	Location	Details	
G	265m W	Operator: 2 AGRICULTURE LTD Installation Name: THORNE CHICKEN PROCESSING EPR/GP3137ZG Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: BP3132ER Original Permit Number: GP3137ZG	EPR Reference: - Issue Date: 19/12/2013 Effective Date: 19/12/2013 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: 2 AGRICULTURE LTD Installation Name: THORNE CHICKEN PROCESSING EPR/GP3137ZG Process: ASSOCIATED PROCESS Permit Number: BP3132ER Original Permit Number: GP3137ZG	EPR Reference: - Issue Date: 19/12/2013 Effective Date: 19/12/2013 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: THORNE POULTRY LTD Installation Name: THORNE CHICKEN PROCESSING Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: BX4348IT Original Permit Number: BX4348IT	EPR Reference: - Issue Date: 22/03/2005 Effective Date: 22/03/2005 Last date noted as effective: 02/10/2009 Status: EFFECTIVE
G	265m W	Operator: VION FOOD SCOTLAND LIMITED Installation Name: THORNE CHICKEN PROCESSING EPR/UP3438ZU Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: UP3438ZU Original Permit Number: UP3438ZU	EPR Reference: - Issue Date: 10/01/2013 Effective Date: 10/01/2013 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: VION FOOD SCOTLAND LIMITED Installation Name: THORNE CHICKEN PROCESSING EPR/UP3438ZU Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: UP3438ZU Original Permit Number: UP3438ZU	EPR Reference: - Issue Date: 10/01/2013 Effective Date: 10/01/2013 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: VION FOOD UK LIMITED Installation Name: THORNE CHICKEN PROCESSING EPR/RP3533HP Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: RP3533HP Original Permit Number: RP3533HP	EPR Reference: - Issue Date: 24/08/2010 Effective Date: 24/08/2010 Last date noted as effective: 01/12/2022 Status: SUPERCEDED

ID	Location	Details	
G	265m W	Operator: THORNE POULTRY LTD Installation Name: THORNE CHICKEN PROCESSING EPR/BX4348IT Process: ASSOCIATED PROCESS Permit Number: BX4348IT Original Permit Number: BX4348IT	EPR Reference: - Issue Date: 22/03/2005 Effective Date: 22/03/2005 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: VION AGRICULTURE LTD Installation Name: THORNE CHICKEN PROCESSING EPR/GP3137ZG Process: ANIMAL, VEGETABLE AND FOOD; SLAUGHTERING ANIMALS >50 T/DAY Permit Number: GP3137ZG Original Permit Number: GP3137ZG	EPR Reference: - Issue Date: 03/04/2013 Effective Date: 03/04/2013 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: VION AGRICULTURE LTD Installation Name: THORNE CHICKEN PROCESSING EPR/GP3137ZG Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: GP3137ZG Original Permit Number: GP3137ZG	EPR Reference: - Issue Date: 03/04/2013 Effective Date: 03/04/2013 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: VION FOOD SCOTLAND LIMITED Installation Name: THORNE CHICKEN PROCESSING EPR/UP3438ZU Process: ASSOCIATED PROCESS Permit Number: UP3438ZU Original Permit Number: UP3438ZU	EPR Reference: - Issue Date: 10/01/2013 Effective Date: 10/01/2013 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
G	265m W	Operator: VION FOOD UK LIMITED Installation Name: THORNE CHICKEN PROCESSING EPR/RP3533HP Process: ASSOCIATED PROCESS Permit Number: RP3533HP Original Permit Number: RP3533HP	EPR Reference: - Issue Date: 24/08/2010 Effective Date: 24/08/2010 Last date noted as effective: 01/12/2022 Status: SUPERCEDED

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

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

Records within 500m	**1**

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

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Address	Details	
57	435m W	World Feeds Ltd (Formerly New Era Aquaculture Ltd), Unit 1B, Coulman Street Industrial Estate, Thorne, Doncaster, DN8 5JS	Process: Animal and Plant/Vegetable Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	**0**

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	**15**

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

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Address	Details	
37	**On site**	**THORNE COLLIERY, GRANGE ROAD, MOORENDS, DONCASTER, SOUTH YORKSHIRE, DN8 4QT**	**Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/83/07769/T Permit Version: 1 Receiving Water: TRIB OF THORNE WASTE DRAIN**	**Status: SURRENDERED UNDER EPR 2010 Issue date: 25/06/1979 Effective Date: 25/06/1979 Revocation Date: 15/06/2015**
C	**On site**	**MOORS SWING BRIDGE HOUSE, MOOR ROAD, THORPE, NR DONCASTER, SOUTH YORKSHIRE, DN8 5SD**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 3/28/83/0395 Permit Version: 1 Receiving Water: UNDERGROUND STRATA**	**Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 02/08/1966 Effective Date: 02/08/1966 Revocation Date: 01/04/2012**
C	**On site**	**MOORS SWING BRIDGE HOUSE, MOOR ROAD, THORPE, NR DONCASTER, SOUTH YORKSHIRE, DN8 5SD**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 3/28/83/0395 Permit Version: 2 Receiving Water: UNDERGROUND STRATA**	**Status: VARIED UNDER EPR 2010 Issue date: 02/04/2012 Effective Date: 02/04/2012 Revocation Date: -**

ID	Location	Address	Details	
D	15m NW	WILKINSON AVENUE CSO, WILKINSON AVENUE, MOORENDS, DONCASTER, SOUTH YORKSHIRE, DN8 4RT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WADC1490 Permit Version: 1 Receiving Water: LEONARDS DRAIN	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 18/09/1989 Effective Date: 18/09/1989 Revocation Date: 13/04/2009
D	15m NW	WILKINSON AVENUE CSO, WILKINSON AVENUE, MOORENDS, DONCASTER, SOUTH YORKSHIRE, DN8 4RT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WADC1490 Permit Version: 2 Receiving Water: LEONARDS DRAIN	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 14/04/2009 Effective Date: 14/04/2009 Revocation Date: 08/06/2017
D	24m NW	WILKINSON AVENUE CSO, WILKINSON AVENUE, MOORENDS, DONCASTER, SOUTH YORKSHIRE, DN8 4RT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WADC1490 Permit Version: 3 Receiving Water: LEONARDS DRAIN	Status: VARIED UNDER EPR 2010 Issue date: 09/06/2017 Effective Date: 09/06/2017 Revocation Date: -
E	154m NW	MOORENDS SEWAGE PUMPING STATION, MOORENDS, DONCASTER, DN8 4SD	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: T/83/10162/O Permit Version: 1 Receiving Water: TRIB NORTH SOAK DRAIN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/03/2002 Effective Date: 28/03/2002 Revocation Date: -
E	154m NW	MOORENDS SEWAGE PUMPING STATION, MOORENDS, DONCASTER, DN8 4SD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/83/10162/O Permit Version: 1 Receiving Water: TRIB NORTH SOAK DRAIN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/03/2002 Effective Date: 28/03/2002 Revocation Date: -
52	181m W	THE WILLOWS, MOOR EDGES ROAD, THORNE, DONCASTER, SOUTH YORKSHIRE, DN8 5XE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: S34/G/5/515 Permit Version: 1 Receiving Water: GROUND WATER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 27/10/1986 Effective Date: 27/10/1986 Revocation Date: -
I	310m NW	MARSHLANDS ROAD, MOORENDS, THORNE, NR GOOLE, WEST YORKSHIRE, DN8 4SB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WADC1125 Permit Version: 1 Receiving Water: LEONARDS DRAIN	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 18/09/1989 Effective Date: 18/09/1989 Revocation Date: 13/04/2009

ID	Location	Address	Details	
I	310m NW	MARSHLANDS ROAD, MOORENDS, THORNE, NR GOOLE, WEST YORKSHIRE, DN8 4SB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WADC1125 Permit Version: 2 Receiving Water: LEONARDS DRAIN	Status: SURRENDERED UNDER EPR 2010 Issue date: 14/04/2009 Effective Date: 14/04/2009 Revocation Date: 09/01/2017
J	350m N	THORNE COLLIERY, GRANGE ROAD, MOORENDS, DONCASTER, SOUTH YORKSHIRE, DN8 4QT	Effluent Type: MINEWATER Permit Number: T/83/45025/T Permit Version: 1 Receiving Water: TRIB OF THORNE WASTE DRAIN	Status: SURRENDERED UNDER EPR 2010 Issue date: 07/08/1996 Effective Date: 07/08/1996 Revocation Date: 15/06/2015
56	388m W	BUNGALOW AT MOOR EDGES ROAD, THORNE, NR DONCASTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WQ/72/2424 Permit Version: 1 Receiving Water: UNDERGROUND STRATA	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 20/03/1979 Effective Date: 20/03/1979 Revocation Date: 01/10/1996
K	411m SW	WIKEWELL SWING BRIDGE HOUSE, THORNE, NR DONCASTER, YORKSHIRE, DN8 5GB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 3/28/83/2466 Permit Version: 1 Receiving Water: UNDERGROUND STRATA	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 15/11/1973 Effective Date: 15/11/1973 Revocation Date: -
58	470m NW	MOORENDS SEWAGE PUMPING STATION, THORNE, DONCASTER, SOUTH YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WA5983 Permit Version: 1 Receiving Water: N COMMON DRN/BRICKHOLES DRAIN	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 26/03/1990 Effective Date: 26/03/1990 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	2

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.

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Name	Status	Receiving Water	Authorised Substances
F	206m W	Electrotec, Thorne	Not Active	-	Chromium, Copper, Lead, Zinc
J	350m N	Thorne Colliery, Doncaster	Active	North Soak Drain	Iron, pH

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	15

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

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Details	
38	12m S	Incident Date: 03/10/2013 Incident Identification: 1164622 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
39	16m NW	Incident Date: 12/10/2001 Incident Identification: 36266 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
40	16m NW	Incident Date: 08/09/2003 Incident Identification: 188256 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
F	179m W	Incident Date: 04/07/2001 Incident Identification: 13675 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
F	183m W	Incident Date: 14/02/2008 Incident Identification: 564073 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Blood and Offal	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	185m W	Incident Date: 03/11/2001 Incident Identification: 40924 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
F	186m W	Incident Date: 16/10/2001 Incident Identification: 37005 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	270m W	Incident Date: 23/11/2001 Incident Identification: 56747 Pollutant: Specific Waste Materials Pollutant Description: Metal Wastes	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
H	270m W	Incident Date: 23/11/2001 Incident Identification: 56747 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
H	270m W	Incident Date: 23/11/2001 Incident Identification: 56747 Pollutant: Specific Waste Materials:Contaminated Water:Organic Chemicals/Products Pollutant Description: Metal Wastes:Suspended Solids:Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
H	270m W	Incident Date: 23/11/2001 Incident Identification: 56747 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
54	302m W	Incident Date: 04/03/2002 Incident Identification: 62390 Pollutant: Organic Chemicals/Products Pollutant Description: Adhesives	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
55	310m NW	Incident Date: 06/04/2006 Incident Identification: 388919 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
K	397m SW	Incident Date: 11/06/2006 Incident Identification: 406262 Pollutant: Contaminated Water Pollutant Description: Minewater	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	422m SW	Incident Date: 14/12/2001 Incident Identification: 48141 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m	**0**

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

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

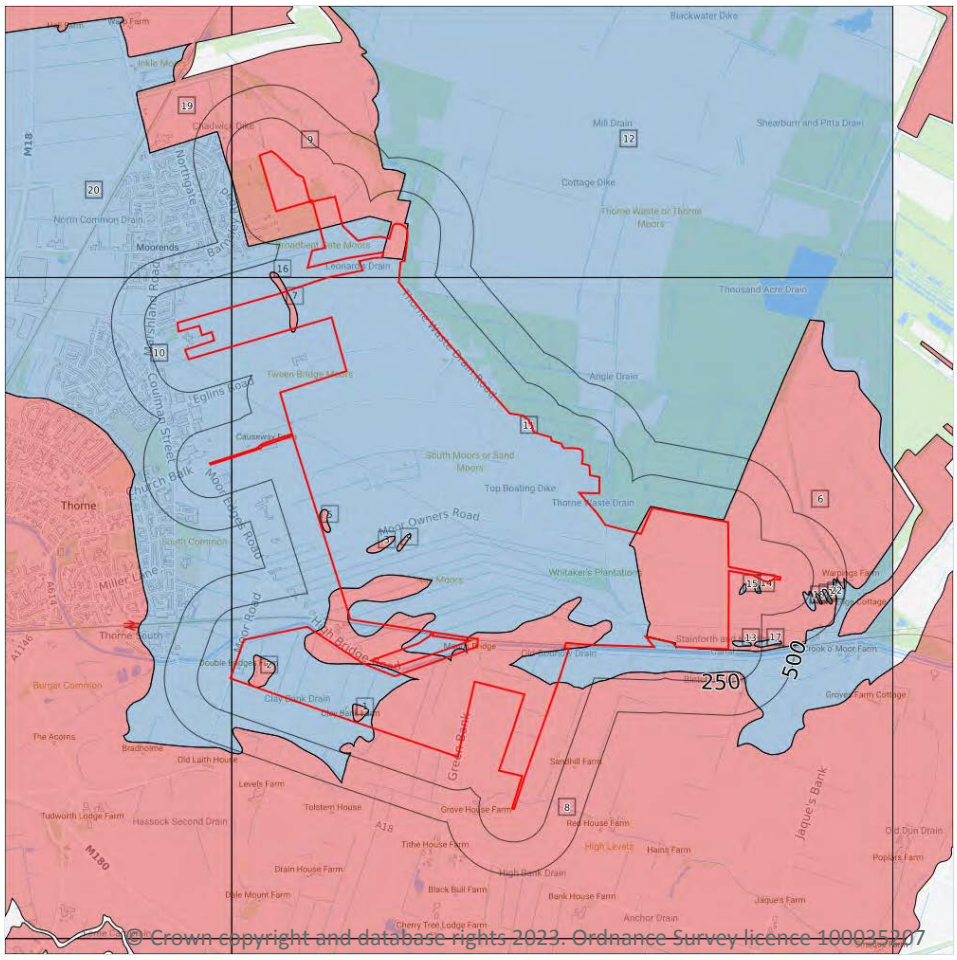
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



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5.1 Superficial aquifer

Records within 500m	22

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 64**

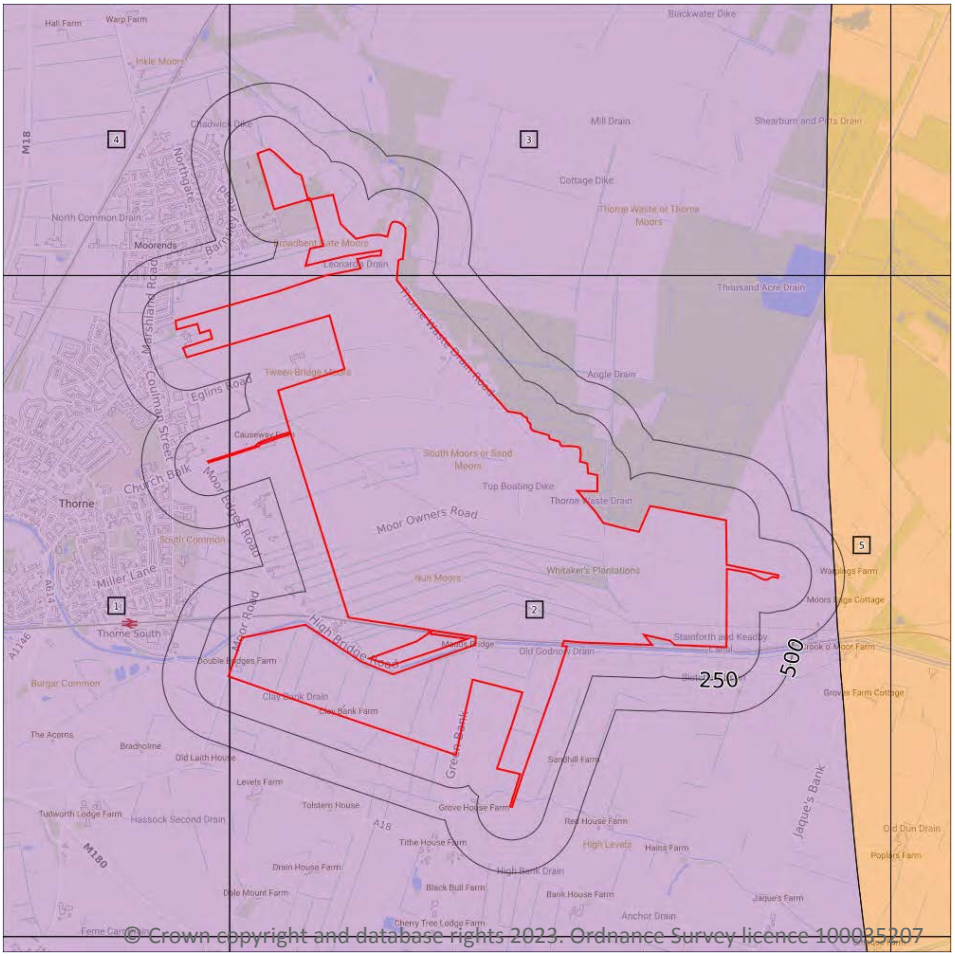
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary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

ID	Location	Designation	Description
3	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
4	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
5	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
6	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
7	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
8	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
9	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
10	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
11	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
12	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
13	31m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
14	44m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
15	78m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
16	115m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
17	198m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
18	198m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
19	211m NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
20	216m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
21	294m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
22	333m E	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



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5.2 Bedrock aquifer

Records within 500m	5

Aquifer status of groundwater held within bedrock geology.

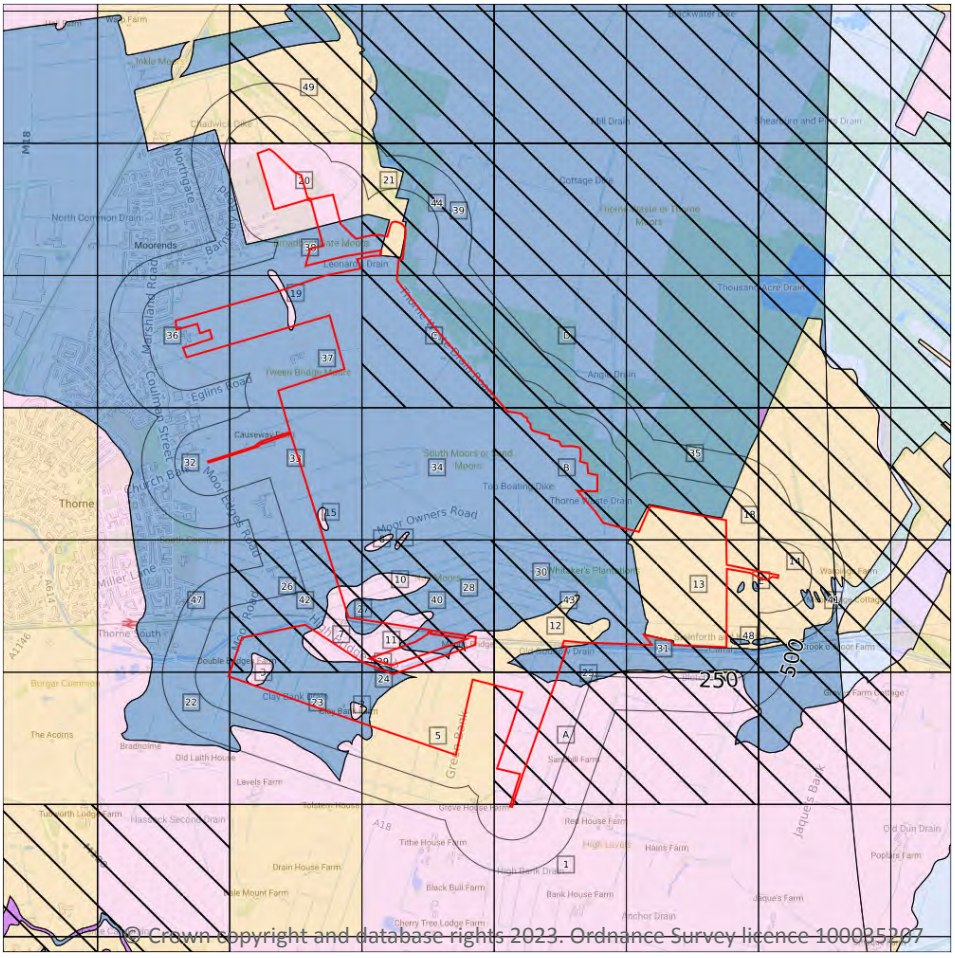
Features are displayed on the Bedrock aquifer map on **page 67**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

ID	Location	Designation	Description
3	**On site**	**Principal**	**Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers**
4	211m NW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
5	426m E	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers

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

Groundwater vulnerability



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	47

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 69**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
3	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
6	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
8	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
9	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
10	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
11	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
12	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
13	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
14	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
15	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
16	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
17	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
18	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
19	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
20	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
21	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
22	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
23	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
24	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
25	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
26	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
27	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
28	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
29	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
30	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
31	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive 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: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
32	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
33	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
34	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
35	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
36	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
37	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
38	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: High**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
39	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
A	**On site**	**Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
B	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
C	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
D	**On site**	**Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed**
47	1m SW	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
48	30m SE	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive 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: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
49	43m NW	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
E	44m E	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive 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: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

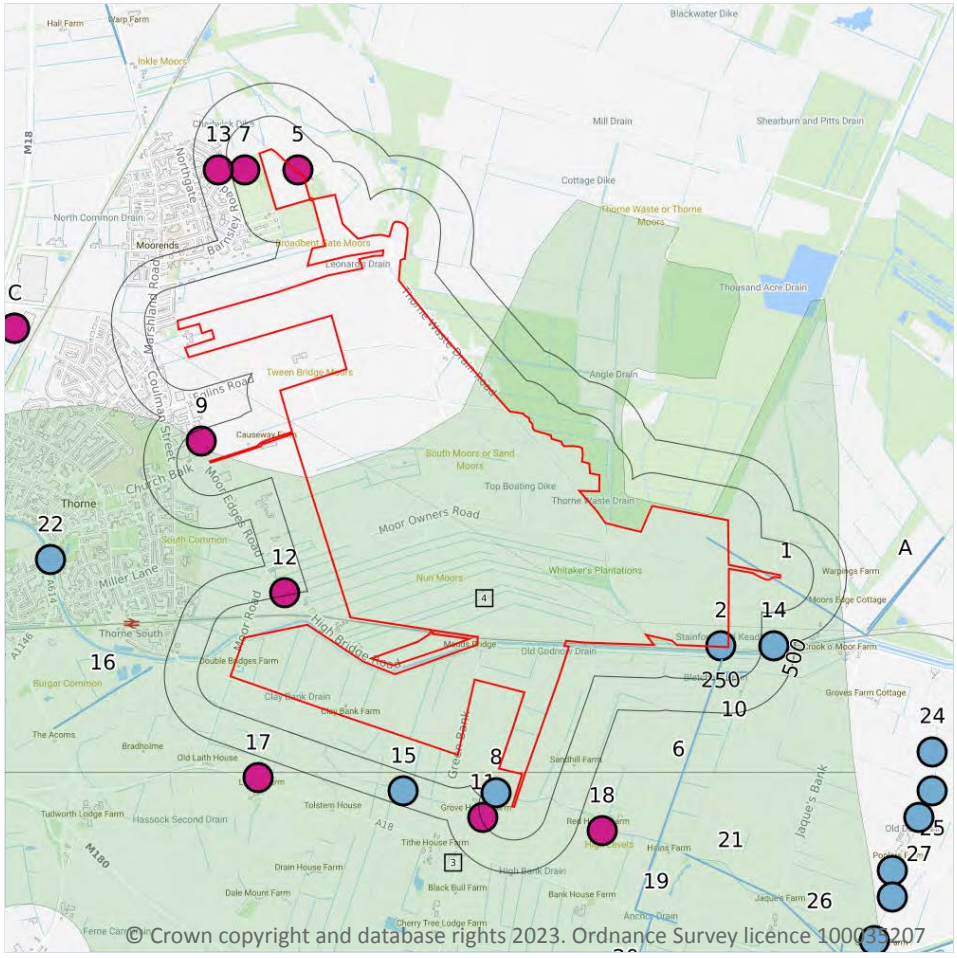
Records on site	11

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.

ID	Summary	Additional information
40	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**
41	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**
42	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**
43	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**
44	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**
45	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**
46	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**
A	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**
B	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**
C	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**
D	**Increased vulnerability of aquifers due to limited protection by superficial deposits and a high water table**	**Local studies indicate a thin unsaturated zone and uncertainties in the extent and thickness of peat cover**

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

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m	11

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 79**

ID	Location	Details	
5	18m NW	Status: Active Licence No: 03/28/83/0014 Details: Process Water Direct Source: Groundwater Midlands Region Point: THORNE COLLIERY - BOREHOLE (2) Data Type: Point Name: Harworth Estates Investments Limited Easting: 470500 Northing: 415800	Annual Volume (m^3): 597,344.40 Max Daily Volume (m^3): 2,273 Original Application No: NPS/WR/029098 Original Start Date: 26/11/1965 Expiry Date: - Issue No: 103 Version Start Date: 01/04/2021 Version End Date: -
7	141m NW	Status: Historical Licence No: 03/28/83/0014 Details: Process water Direct Source: Groundwater Midlands Region Point: THORNE COLLIERY - BOREHOLE (2) Data Type: Point Name: R J B MINING (UK) LTD Easting: 470100 Northing: 415800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 07/11/2000 Version End Date: -
9	164m W	Status: Active Licence No: MD/028/0083/023 Details: Process Water Direct Source: Groundwater Midlands Region Point: BOREHOLE AT THORNE Data Type: Point Name: Chesterfield Poultry Limited Easting: 469772 Northing: 413747	Annual Volume (m^3): 66,768 Max Daily Volume (m^3): 186 Original Application No: NPS/WR/028243 Original Start Date: 10/02/2020 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 10/02/2020 Version End Date: -
11	235m S	Status: Historical Licence No: 03/28/83/0023 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: GROVE FARM - BOREHOLE Data Type: Point Name: J S BROOKE AND SONS Easting: 471900 Northing: 410900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
12	270m SW	Status: Historical Licence No: 03/28/83/0050 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: FOUR WINDS FARM - BOREHOLE Data Type: Point Name: JOHNSON Easting: 470400 Northing: 412600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -

ID	Location	Details	
13	332m NW	Status: Active Licence No: 03/28/83/0014 Details: Process Water Direct Source: Groundwater Midlands Region Point: THORNE COLLIERY - BOREHOLE (1) Data Type: Point Name: Harworth Estates Investments Limited Easting: 469900 Northing: 415800	Annual Volume (m^3): 597,344.40 Max Daily Volume (m^3): 2,273 Original Application No: NPS/WR/029098 Original Start Date: 26/11/1965 Expiry Date: - Issue No: 103 Version Start Date: 01/04/2021 Version End Date: -
17	655m SW	Status: Historical Licence No: 03/28/83/0024 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: THE LEVELS FARM - BOREHOLE Data Type: Point Name: BROOKE Easting: 470200 Northing: 411200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
18	687m SE	Status: Historical Licence No: 03/28/83/0016 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: RED HOUSE FARM - BOREHOLE Data Type: Point Name: B I & A ATKINSON Easting: 472800 Northing: 410800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 02/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
C	1231m NW	Status: Historical Licence No: 2/27/09/076 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: MARTIN Easting: 468360 Northing: 414600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 23/03/1981 Version End Date: -
C	1231m NW	Status: Historical Licence No: 2/27/09/076 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - SHERWOOD SANDSTONE - THORNE Data Type: Point Name: MARTIN Easting: 468360 Northing: 414600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 23/03/1981 Version End Date: -

ID	Location	Details	
-	1425m S	Status: Historical Licence No: 03/28/83/0011 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: CROWTREE FARMS - BOREHOLE Data Type: Point Name: J TOWN & SONS Easting: 471500 Northing: 409700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 29/10/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**26**

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 79**

ID	Location	Details	
1	**On site**	**Status: Historical** **Licence No: 03/28/83/0072** **Details: Spray Irrigation - Direct** **Direct Source: Surface Water Midlands Region** **Point: CROWLE - CROOK O'MOOR DRAIN (REACH)** **Data Type: Line** **Name: DAN ALBONE & SON LTD** **Easting: 474800** **Northing: 412280**	**Annual Volume (m^3): -** **Max Daily Volume (m^3): -** **Original Application No: -** **Original Start Date: 05/08/1997** **Expiry Date: -** **Issue No: 100** **Version Start Date: 16/01/1998** **Version End Date: -**
2	**On site**	**Status: Active** **Licence No: 03/28/83/0067** **Details: Spray Irrigation - Direct** **Direct Source: Surface Water Midlands Region** **Point: NEW WARP FARM - THE NORTH SOAK DRAIN (2)** **Data Type: Point** **Name: H BARKER & SONS** **Easting: 473700** **Northing: 412200**	**Annual Volume (m^3): 13,638** **Max Daily Volume (m^3): 1,200** **Original Application No: -** **Original Start Date: 08/03/1966** **Expiry Date: -** **Issue No: 100** **Version Start Date: 16/12/1982** **Version End Date: -**

ID	Location	Details	
6	91m SE	Status: Active Licence No: 03/28/83/0066 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: DIRTNESS GROVES, CROWLE - BLETCHERS DRAIN Data Type: Line Name: J S BROOKE & SONS Easting: 473050 Northing: 410200	Annual Volume (m^3): 15,274.56 Max Daily Volume (m^3): 545.52 Original Application No: - Original Start Date: 04/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/10/1999 Version End Date: -
8	146m S	Status: Active Licence No: 03/28/83/0068 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: GROVE HOUSE CROWLE - BOATING DYKE POINT B Data Type: Point Name: J S BROOKE & SONS Easting: 472000 Northing: 411090	Annual Volume (m^3): 5,437.02 Max Daily Volume (m^3): 909.20 Original Application No: - Original Start Date: 10/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/10/1999 Version End Date: -
10	189m SE	Status: Active Licence No: 03/28/83/0066 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: DIRTNESS GROVES,CROWLE - UNNAMED DRAIN (2) Data Type: Line Name: J S BROOKE & SONS Easting: 473700 Northing: 412000	Annual Volume (m^3): 15,274.56 Max Daily Volume (m^3): 545.52 Original Application No: - Original Start Date: 04/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/10/1999 Version End Date: -
14	342m E	Status: Active Licence No: 03/28/83/0067 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: NEW WARP FARM - THE NORTH SOAK DRAIN (1) Data Type: Point Name: H BARKER & SONS Easting: 474100 Northing: 412200	Annual Volume (m^3): 13,638 Max Daily Volume (m^3): 1,200 Original Application No: - Original Start Date: 08/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1982 Version End Date: -

ID	Location	Details	
15	391m S	Status: Active Licence No: 03/28/83/0068 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: GROVE HOUSE,CROWLE - BOATING DYKE POINT A Data Type: Point Name: J S BROOKE & SONS Easting: 471300 Northing: 411100	Annual Volume (m^3): 5,437.02 Max Daily Volume (m^3): 909.20 Original Application No: - Original Start Date: 10/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/10/1999 Version End Date: -
16	594m SW	Status: Active Licence No: 03/28/83/0179 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: BRADHOLME FARM - BRIERHOLME CARR DRAIN Data Type: Line Name: C W GILLIAT & CO Easting: 469400 Northing: 412040	Annual Volume (m^3): 10,000 Max Daily Volume (m^3): 1,210 Original Application No: - Original Start Date: 26/03/1993 Expiry Date: - Issue No: 100 Version Start Date: 26/03/1993 Version End Date: -
A	766m E	Status: Active Licence No: 03/28/83/0072 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: CROWLE - CROOK O'MOOR DRAIN (REACH) Data Type: Line Name: DAN ALBONE & SON LTD Easting: 474805 Northing: 412320	Annual Volume (m^3): 31,000 Max Daily Volume (m^3): 1,000 Original Application No: NPS/WR/031598 Original Start Date: 05/08/1997 Expiry Date: - Issue No: 103 Version Start Date: 01/04/2020 Version End Date: -
A	783m E	Status: Historical Licence No: 03/28/83/0072 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: CROWLE - CROOK O'MOOR DRAIN (REACH) Data Type: Line Name: DAN ALBONE & SON LTD Easting: 474800 Northing: 412280	Annual Volume (m^3): 31000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 05/08/1997 Expiry Date: - Issue No: 101 Version Start Date: 30/05/2007 Version End Date: -
19	1202m SE	Status: Active Licence No: 03/28/83/0066 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: DIRNESS GROVES, CROWLE - ANCHOR DRAIN (1) Data Type: Line Name: J S BROOKE & SONS Easting: 473050 Northing: 410200	Annual Volume (m^3): 15,274.56 Max Daily Volume (m^3): 545.52 Original Application No: - Original Start Date: 04/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/10/1999 Version End Date: -

ID	Location	Details	
B	1216m NW	Status: Historical Licence No: 2/27/09/090 Details: General Farming & Domestic Direct Source: SURFACE WATER Point: BLACK DRAIN -- PUMP Data Type: Line Name: ROSSINGTON PRODUCE CO LTD Easting: 469200 Northing: 416600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/11/1996 Version End Date: -
B	1216m NW	Status: Historical Licence No: 2/27/09/090 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: BLACK DRAIN -- PUMP Data Type: Line Name: ROSSINGTON PRODUCE CO LTD Easting: 469200 Northing: 416600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/11/1996 Version End Date: -
B	1216m NW	Status: Historical Licence No: 2/27/09/090 Details: General Farming & Domestic Direct Source: SURFACE WATER Point: BLACK DRAIN Data Type: Line Name: SAM LONGTHORP LTD Easting: 469200 Northing: 416600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 102 Version Start Date: 13/12/2000 Version End Date: -
B	1216m NW	Status: Historical Licence No: 2/27/09/090 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER Point: BLACK DRAIN Data Type: Line Name: SAM LONGTHORP LTD Easting: 469200 Northing: 416600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 102 Version Start Date: 13/12/2000 Version End Date: -
20	1334m SE	Status: Active Licence No: 03/28/83/0066 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: DIRTNESS GROVES,CROWLE - ANCHOR DRAIN (2) Data Type: Line Name: J S BROOKE & SONS Easting: 473180 Northing: 410150	Annual Volume (m^3): 15,274.56 Max Daily Volume (m^3): 545.52 Original Application No: - Original Start Date: 04/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/10/1999 Version End Date: -

ID	Location	Details	
21	1339m SE	Status: Active Licence No: 03/28/83/0057 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: BOATING DYKE DRAIN Data Type: Line Name: Bramhall Farming Ltd Easting: 473429 Northing: 410626	Annual Volume (m^3): 31,000 Max Daily Volume (m^3): 818 Original Application No: NPS/WR/034997 Original Start Date: 18/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/04/2022 Version End Date: -
22	1415m W	Status: Historical Licence No: 03/28/83/0168 Details: Make-Up or Top Up Water Direct Source: Surface Water Midlands Region Point: THORNE - STAINFORTH & KEADBY CANAL Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 468630 Northing: 412850	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 24/03/1992 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1644m E	Status: Historical Licence No: 03/28/83/0072 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: CROWLE - CROOK O'MOOR DRAIN (POINT) Data Type: Point Name: DAN ALBONE & SON LTD Easting: 475690 Northing: 413310	Annual Volume (m^3): 31000 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 05/08/1997 Expiry Date: - Issue No: 101 Version Start Date: 30/05/2007 Version End Date: -
-	1645m E	Status: Active Licence No: 03/28/83/0072 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: CROWLE - CROOK O'MOOR DRAIN (POINT) Data Type: Point Name: DAN ALBONE & SON LTD Easting: 475690 Northing: 413315	Annual Volume (m^3): 31,000 Max Daily Volume (m^3): 1,000 Original Application No: NPS/WR/031598 Original Start Date: 05/08/1997 Expiry Date: - Issue No: 103 Version Start Date: 01/04/2020 Version End Date: -
24	1733m SE	Status: Active Licence No: 03/28/83/0067 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: POPLARS FARM - DUNN DRAIN (5) Data Type: Point Name: H BARKER & SONS Easting: 475300 Northing: 411400	Annual Volume (m^3): 13,638 Max Daily Volume (m^3): 1,200 Original Application No: - Original Start Date: 08/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1982 Version End Date: -

ID	Location	Details	
25	1888m SE	Status: Active Licence No: 03/28/83/0067 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: POPLARS FARM - DUNN DRAIN (4) Data Type: Point Name: H BARKER & SONS Easting: 475300 Northing: 411100	Annual Volume (m^3): 13,638 Max Daily Volume (m^3): 1,200 Original Application No: - Original Start Date: 08/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1982 Version End Date: -
-	1892m E	Status: Historical Licence No: 03/28/84/0010 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: CROWLE - OLD RIVER DRAIN Data Type: Line Name: H BARKER & SONS Easting: 475900 Northing: 412000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/03/1994 Expiry Date: - Issue No: 100 Version Start Date: 30/05/1995 Version End Date: -
-	1892m E	Status: Active Licence No: 03/28/83/0259 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: CROWLE - OLD RIVER DRAIN Data Type: Line Name: DAN ALBONE & SON LTD Easting: 475900 Northing: 412000	Annual Volume (m^3): 24,000 Max Daily Volume (m^3): 2,945 Original Application No: NPS/WR/035308 Original Start Date: 21/11/2001 Expiry Date: - Issue No: 2 Version Start Date: 27/04/2021 Version End Date: -
26	1925m SE	Status: Active Licence No: 03/28/83/0114 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: DIRTNESS BRIDGE FARM - BOATING DYKE Data Type: Line Name: CUNDALL Easting: 474130 Northing: 410300	Annual Volume (m^3): 9,092 Max Daily Volume (m^3): 545.50 Original Application No: - Original Start Date: 30/11/1976 Expiry Date: - Issue No: 100 Version Start Date: 03/12/2018 Version End Date: -
27	1935m SE	Status: Active Licence No: 03/28/83/0067 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: POPLARS FARM - DUNN DRAIN (3) Data Type: Point Name: H BARKER & SONS Easting: 475200 Northing: 410900	Annual Volume (m^3): 13,638 Max Daily Volume (m^3): 1,200 Original Application No: - Original Start Date: 08/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1982 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	2

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 79**

ID	Location	Type	Description
3	**On site**	**3**	**Total catchment**
4	**On site**	**3**	**Total catchment**

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

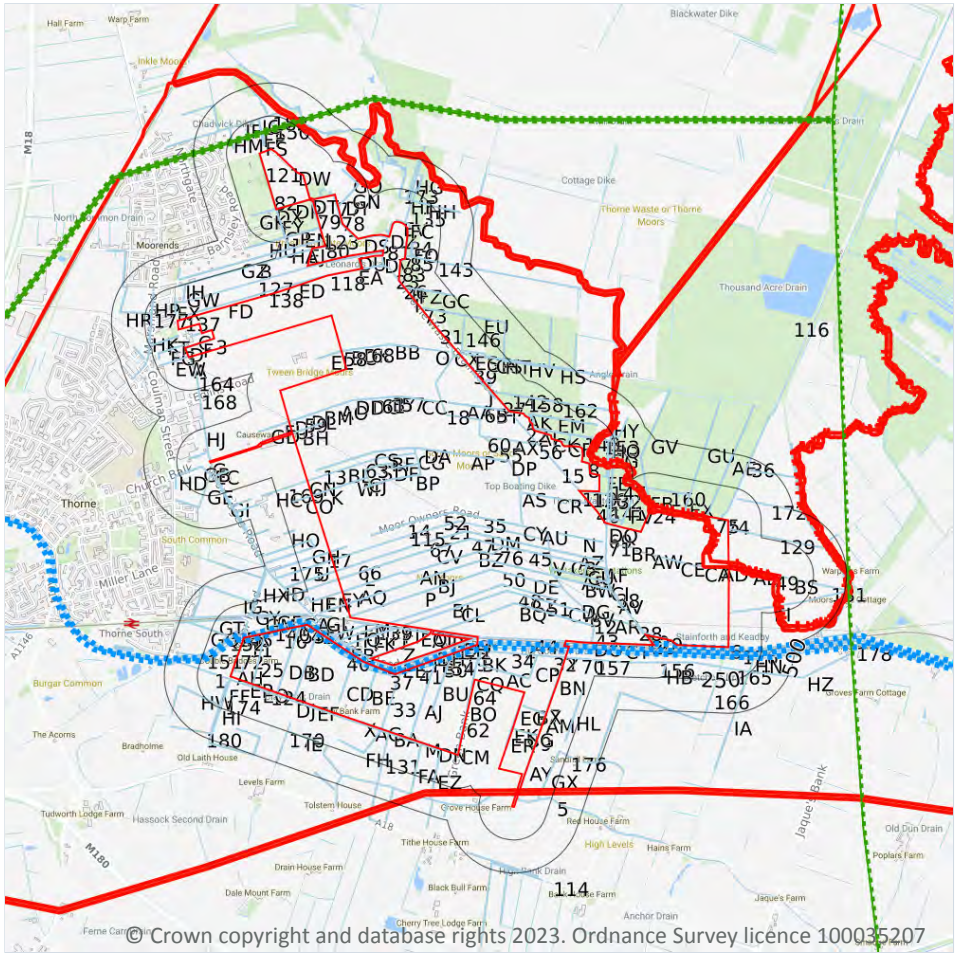
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m	601

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 89**

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)**	**Boating Dike Small Drain**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Sheffield and South Yorkshire Navigation
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike Drain
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike Small Drain
12	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
13	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike

ID	Location	Type of water feature	Ground level	Permanence	Name
15	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
16	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike Small Drain
17	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
19	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
20	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
21	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
23	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
24	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Swinefleet Warping Drain
25	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
27	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
28	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
29	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
31	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
32	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
33	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike Small Drain
34	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
35	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike
36	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Swinefleet Warping Drain
37	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike Small Drain
38	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
39	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
40	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike Small Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
41	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
42	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike Small Drain
43	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
44	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	North Soak Drain
45	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
46	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
47	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
48	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
49	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
50	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
51	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
52	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Boating Dike
53	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
54	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
55	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
56	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
57	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
58	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
59	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
60	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
61	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
62	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
63	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
64	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
65	On site	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
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
66	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)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
67	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
68	On site	Inland river not influenced by normal tidal action.	Underground	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)	South Soak Drain
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
69	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
70	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
71	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
72	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Boating Dike Small Drain
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
73	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
J	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
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
74	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
75	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Swinefleet Warping Drain
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
76	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
77	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
78	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	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
79	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
80	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
81	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
82	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
83	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
84	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
U	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
85	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike

ID	Location	Type of water feature	Ground level	Permanence	Name
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
W	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
X	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Y	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
Y	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike Small Drain
BA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BA	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BA	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AC	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
BB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CA	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BB	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AD	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BC	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CB	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
DA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DA	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AE	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BD	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CC	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DB	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EA	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Leonard's Drain
AF	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BE	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CD	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DC	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BF	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
CE	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DD	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DD	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DD	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BG	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CF	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DE	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike Small Drain
AI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BH	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CG	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CG	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
DF	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DF	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CH	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DG	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
AK	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BJ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DH	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BK	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CJ	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
DI	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CJ	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BK	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
BK	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
AM	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CK	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DJ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DJ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BM	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DK	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
BM	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BM	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DK	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BM	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
BM	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BN	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CM	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DL	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AP	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BO	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CN	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DM	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
AQ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BP	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CO	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DN	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AR	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BQ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CP	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DO	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
DO	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
AS	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
BR	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CQ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DP	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike

ID	Location	Type of water feature	Ground level	Permanence	Name
DP	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
AT	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AT	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BS	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CR	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DQ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Angle Drain
DQ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Angle Drain
AU	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
BT	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CS	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DR	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AV	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BU	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
CT	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	North Soak Drain
DS	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AW	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BV	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
CU	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BV	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BV	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DT	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DT	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DT	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DT	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
AX	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BW	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
CV	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DU	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AY	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BX	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CW	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DV	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DV	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DV	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
DV	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
DV	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DV	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AZ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BY	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
CX	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
CX	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
CX	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
CX	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Thorne Waste Drain
DW	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BZ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CY	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Boating Dike
CY	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Top Boating Dike
CY	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike
DX	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DX	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CZ	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DY	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
DZ	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
DZ	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
DZ	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
EF	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
118	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Leonard's Drain**
EC	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Moor Drain**
119	1m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
120	1m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
121	1m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	1m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
EE	1m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
EG	1m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
ED	1m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Leonard's Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
122	1m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AI	1m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EH	1m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CT	2m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EE	2m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
Q	2m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
DT	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DT	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EI	3m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DT	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DT	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DT	3m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DX	3m NW	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
123	3m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EJ	3m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DU	4m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EK	4m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EL	4m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EM	4m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CK	5m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
124	5m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
EN	5m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EO	5m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EP	5m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EQ	6m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EK	6m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
126	6m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	North Soak Drain
ER	6m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EU	7m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EV	7m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EW	8m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CX	8m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
127	8m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
129	9m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	10m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DN	10m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	10m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BA	10m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BA	10m S	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
EB	11m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	North Soak Drain
EB	11m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
DQ	12m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DZ	12m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EX	12m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DZ	12m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DH	12m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	North Soak Drain
BA	12m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
BA	12m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Clay Bank Drain
BA	12m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Clay Bank Drain
EF	12m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Clay Bank Drain
131	13m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Clay Bank Drain
EE	13m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
132	14m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EQ	14m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
ES	15m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CX	15m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EZ	17m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DQ	17m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FA	18m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FB	18m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DT	18m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
135	19m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FC	19m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EP	20m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Clay Bank Drain
EP	20m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Clay Bank Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
FE	21m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FD	22m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Leonard's Drain
137	22m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Leonard's Drain
FF	22m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Clay Bank Drain
FG	23m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
138	23m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Leonard's Drain
FH	23m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FC	24m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Q	25m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FI	25m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FI	26m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FJ	26m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
139	27m SW	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
FL	27m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EY	27m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FN	27m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FM	27m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FM	27m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
140	29m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	North Soak Drain
FK	29m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
ES	30m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
CX	30m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DQ	34m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
141	34m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Angle Drain
DX	37m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	38m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
EB	38m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
EB	38m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
142	38m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	38m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
EB	39m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
EB	39m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
EB	39m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
EB	39m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
EB	39m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
FO	40m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FP	40m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FQ	40m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	41m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
FE	41m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
DQ	41m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
143	43m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	44m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	44m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
FF	44m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
145	44m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike
FR	44m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	45m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
FR	45m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	45m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
FS	46m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FT	47m NW	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
FU	47m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
EB	48m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
FO	48m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	48m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
CF	49m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FV	50m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	50m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
FW	51m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
FX	52m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
146	54m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FE	55m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FE	55m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FY	57m NW	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
FZ	58m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FU	58m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GA	60m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GB	67m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EB	69m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
147	69m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Angle Drain
FE	71m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Angle Drain
G	72m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	72m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	72m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
FU	73m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
GA	73m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
FZ	74m N	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
GA	74m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
GA	74m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
GA	76m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GD	78m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FE	79m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GA	79m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
148	82m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GA	83m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
GA	83m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EC	85m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EC	85m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	85m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	85m 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
GA	86m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
GE	88m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GF	89m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GA	90m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
FE	92m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GG	92m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GH	96m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GI	96m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Houpes Drain
G	98m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
GK	98m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GL	98m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GG	100m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Angle Drain
G	101m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
EC	101m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EC	102m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EC	103m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EC	104m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
GA	108m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
GM	110m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GA	110m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
GN	110m N	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
GC	113m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
150	114m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Chadwick Dike
GN	117m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GP	117m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GA	118m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
151	119m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Boating Dike
152	119m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GA	121m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
GQ	124m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
153	124m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
156	126m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
157	127m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Old Godnow Drain
GR	127m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GR	127m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
158	128m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FX	129m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GS	130m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
FX	130m NW	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
160	130m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EC	133m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
GU	134m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
162	134m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GT	138m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EC	140m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
GV	144m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
164	146m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
GW	146m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GA	147m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
GA	150m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
165	153m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bletchers Drain
166	153m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bletchers Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
GX	153m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GY	155m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GT	155m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Houpes Drain
GY	155m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Houpes Drain
168	157m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
GA	162m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
169	166m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
HA	167m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GZ	167m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HA	170m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HB	172m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HC	172m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HD	172m 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
170	172m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
172	174m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GO	175m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HE	179m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
173	182m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HF	183m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HF	183m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HG	184m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
174	184m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Clay Bank Drain
HF	184m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HG	185m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HH	185m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	186m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain

ID	Location	Type of water feature	Ground level	Permanence	Name
HI	188m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Clay Bank Drain
175	192m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HJ	197m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
HK	199m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HL	199m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HM	200m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
176	201m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HN	201m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	South Soak Drain
HO	202m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HP	203m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
177	203m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HQ	206m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HN	208m 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
178	208m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	South Soak Drain
HN	210m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
EC	211m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
GA	211m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Moor Drain
HR	213m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HS	215m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
GI	215m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
GA	216m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
HQ	220m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Angle Drain
HT	221m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HU	222m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HT	222m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HV	223m N	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
GY	232m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
GY	233m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Houpes Drain
HW	233m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HI	233m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
HI	234m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
180	234m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HQ	235m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HY	235m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Angle Drain
HX	236m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HQ	236m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HN	236m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Bletchers Drain
HN	241m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bletchers Drain
IA	242m 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
HN	242m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bletchers Drain
HQ	242m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
181	243m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
HZ	243m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bletchers Drain
IC	245m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Chadwick Dike
IC	245m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Chadwick Dike
182	245m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Chadwick Dike
ID	245m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Moor Drain
IC	246m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Chadwick Dike
IE	246m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
IC	247m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Chadwick Dike
HX	247m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Houpes Drain
IF	248m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Chadwick Dike

ID	Location	Type of water feature	Ground level	Permanence	Name
IG	248m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
IH	249m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**151**

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 89**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	**3**

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

Features are displayed on the Hydrology map on **page 89**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
114	**On site**	**River**	**Hatfield Waste Drain Catchment (trib of Torne/Three Rivers)**	**GB104028064330**	**Isle of Axholme**	**Idle and Torne**
115	**On site**	**River**	**North Soak Drain Catchment (trib of Torne/Three Rivers)**	**GB104028064350**	**Isle of Axholme**	**Idle and Torne**
116	**On site**	**Coastal Catchment**	**Not part of a river WB catchment**	**100**	**Lower Don**	**Don and Rother**

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

6.4 WFD Surface water bodies

Records identified	3

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

Features are displayed on the Hydrology map on **page 89**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
R	**On site**	**Canal**	**Sheffield and South Yorkshire Navigation (New Junction and Stainf**	**GB70410281**	**Moderate**	**Fail**	**Good**	**2019**
117	**On site**	**River**	**North Soak Drain Catchment (trib of Torne/Three Rivers)**	**GB104028064350**	**Moderate**	**Fail**	**Moderate**	**2019**
-	2635m S	River	Hatfield Waste Drain Catchment (trib of Torne/Three Rivers)	GB104028064330	Poor	Fail	Poor	2019

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

6.5 WFD Groundwater bodies

Records on site	1

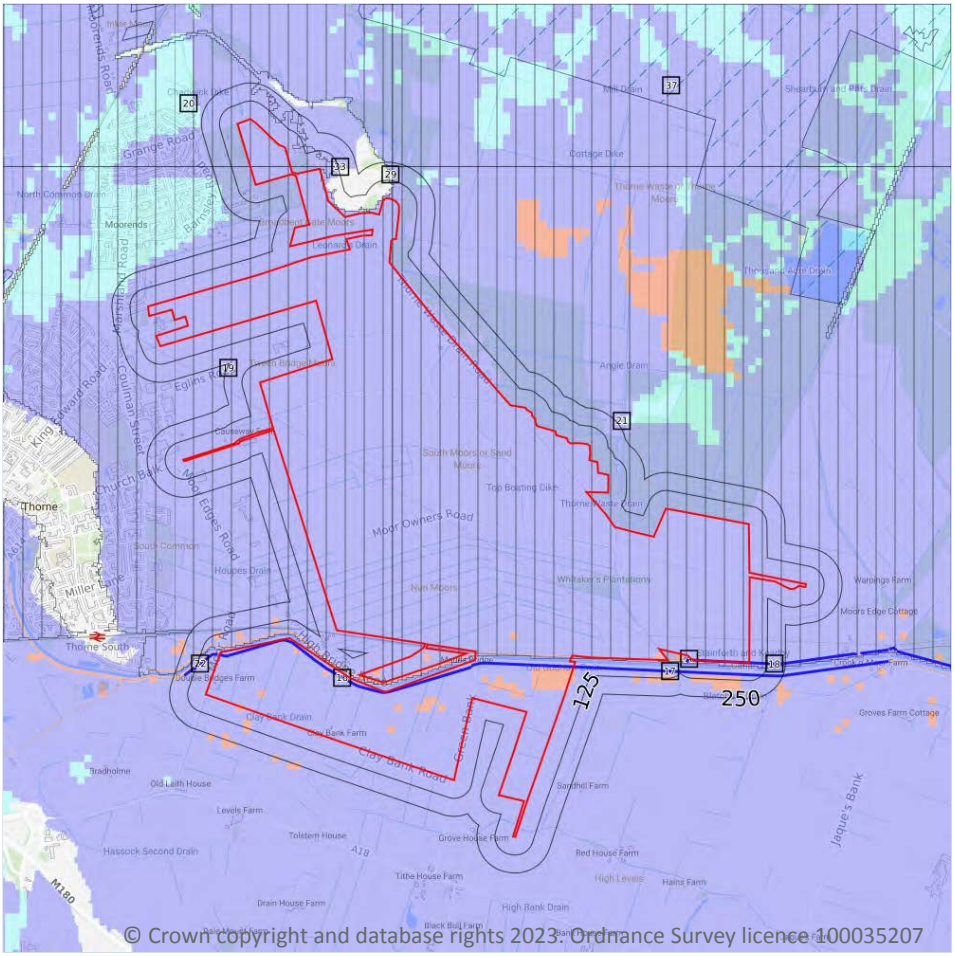
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 89**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
CV	**On site**	**Idle Torne - PT Sandstone Nottinghamshire& Doncaster**	**GB40401G301500**	**Poor**	**Poor**	**Poor**	**2019**

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	15

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 138**

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

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	**6**

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.

Features are displayed on the River and coastal flooding map on **page 138**

ID	Location	Update
16	**On site**	**08/11/2022**
17	**On site**	**08/11/2022**
18	**On site**	**08/11/2022**
A	5m SE	08/11/2022
22	15m SW	08/11/2022
A	28m SE	08/11/2022

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	6

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.

Features are displayed on the River and coastal flooding map on **page 138**

ID	Location	
19	**On site**	**Area benefiting from flood defences**
20	**On site**	**Area benefiting from flood defences**
21	**On site**	**Area benefiting from flood defences**
29	100m N	Area benefiting from flood defences
33	134m N	Area benefiting from flood defences
37	220m N	Area benefiting from flood defences

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

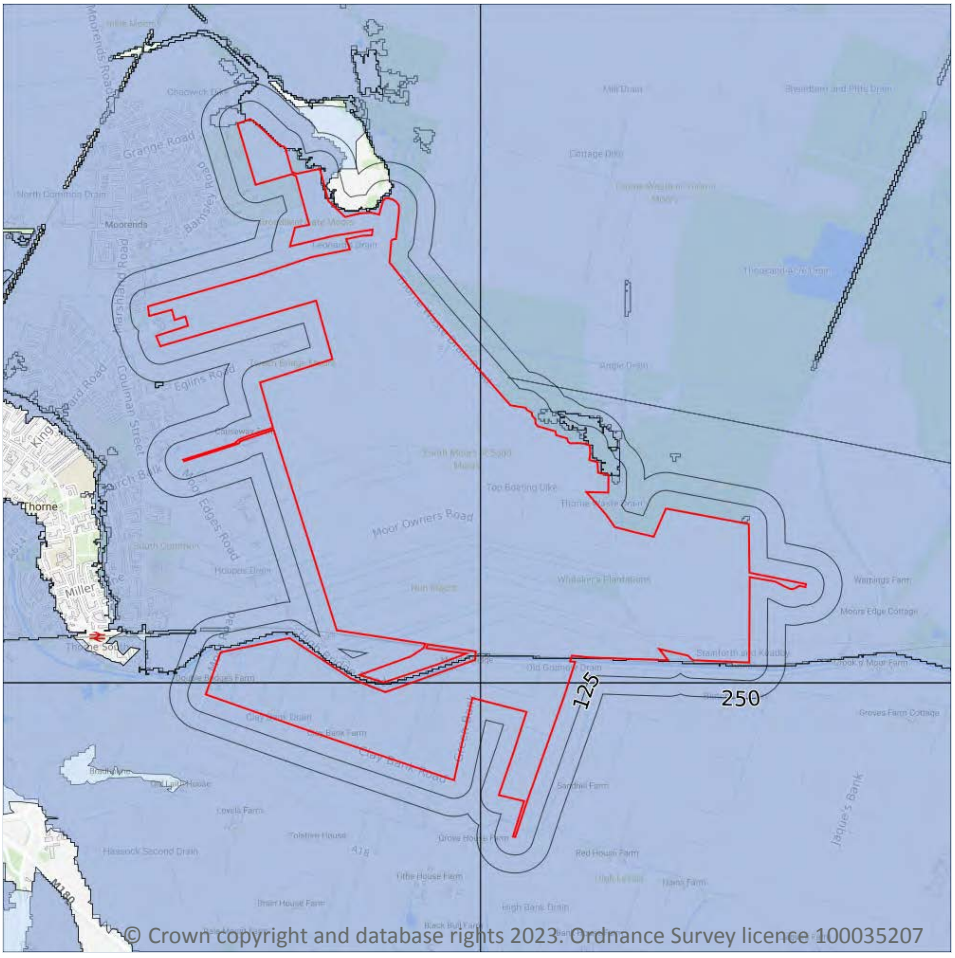
7.5 Flood Storage Areas

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 138**

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

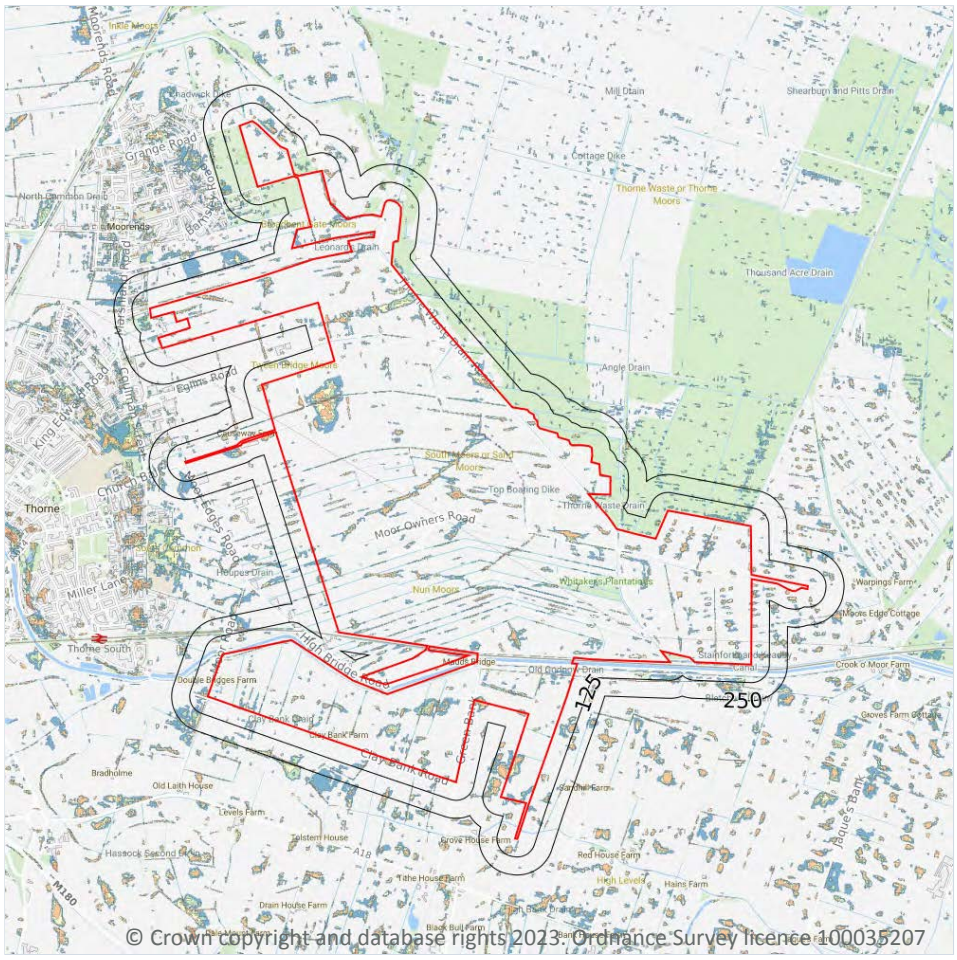
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 138**

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, Greater than 1.0m**
Highest risk within 50m	**1 in 30 year, Greater than 1.0m**

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

Features are displayed on the Surface water flooding map on **page 143**

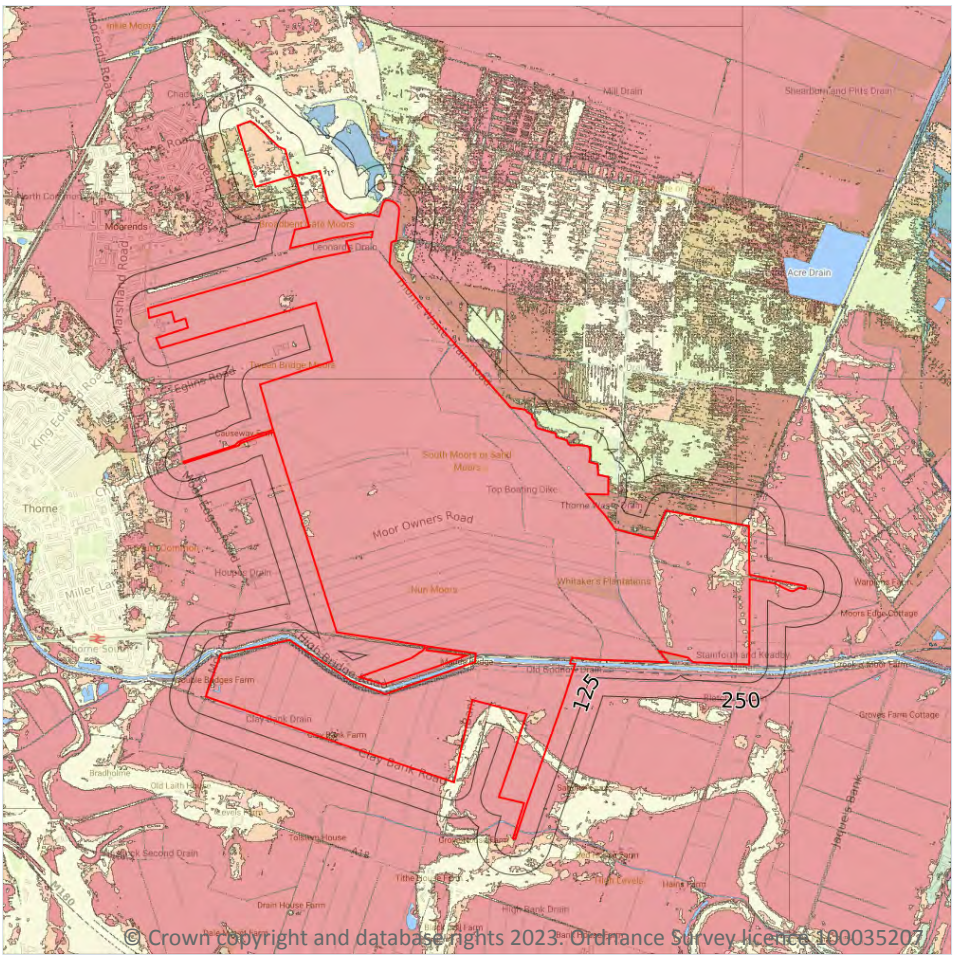
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

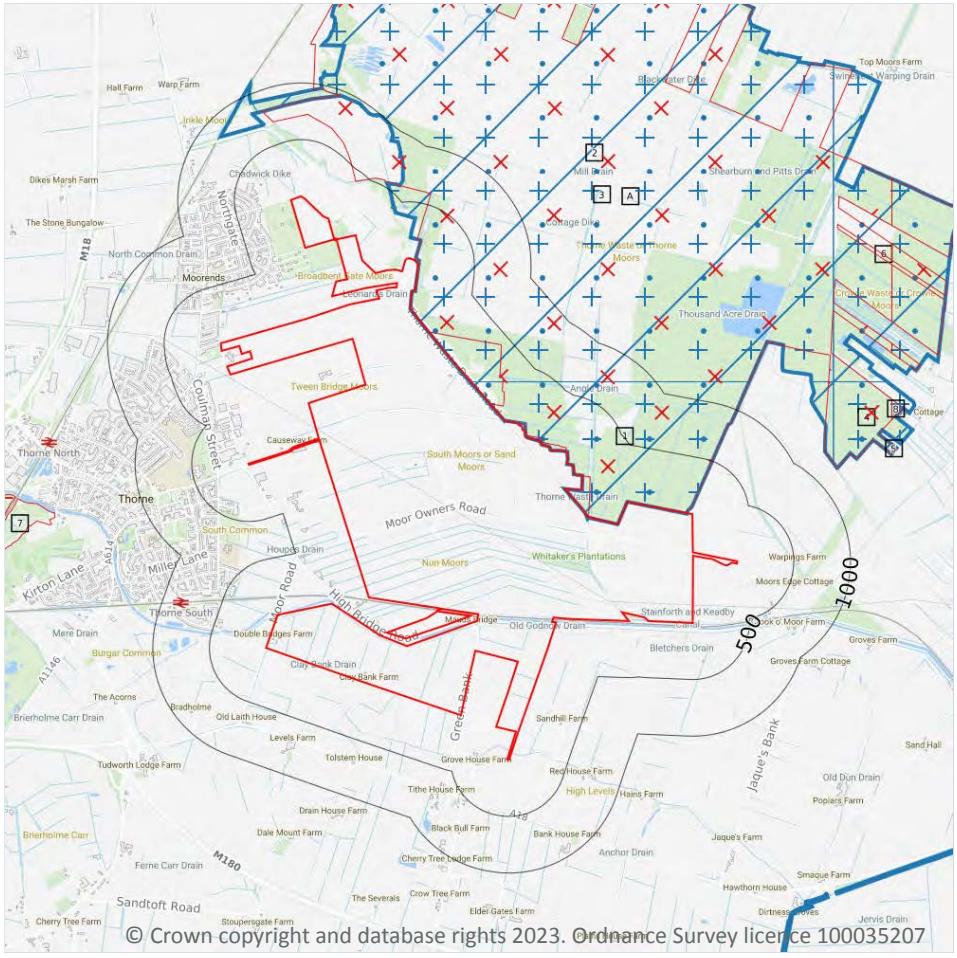
Highest risk on site	**High**
Highest risk within 50m	**High**

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 145**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

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.

Features are displayed on the Environmental designations map on **page 146**

ID	Location	Name	Data source
A	**On site**	**Thorne, Crowle and Goole Moors**	**Natural England**

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	1

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.

Features are displayed on the Environmental designations map on **page 146**

ID	Location	Name	Features of interest	Habitat description	Data source
A	**On site**	**Thorne Moor**	**Active raised bogs; Degraded raised bog.**	**Heath, Scrub, Maquis and Garrigue, Phygrana; Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Broad-leaved deciduous woodland; Bogs, Marshes, Water fringed vegetation, Fens**	**Natural England**

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

10.4 Special Protection Areas (SPA)

Records within 2000m	4

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.

Features are displayed on the Environmental designations map on **page 146**

ID	Location	Name	Species of interest	Habitat description	Data source
1	**On site**	**Thorne & Hatfield Moors**	**European nightjar**	**Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Broad-leaved deciduous woodland; Coniferous woodland; Bogs, Marshes, Water fringed vegetation, Fens; Heath, Scrub, Maquis and Garrigue, Phygrana**	**Natural England**
2	**On site**	**Thorne & Hatfield Moors**	**European nightjar**	**Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Broad-leaved deciduous woodland; Coniferous woodland; Bogs, Marshes, Water fringed vegetation, Fens; Heath, Scrub, Maquis and Garrigue, Phygrana**	**Natural England**
4	1206m E	Thorne & Hatfield Moors	European nightjar	Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Broad-leaved deciduous woodland; Coniferous woodland; Bogs, Marshes, Water fringed vegetation, Fens; Heath, Scrub, Maquis and Garrigue, Phygrana	Natural England
6	1708m E	Thorne & Hatfield Moors	European nightjar	Inland water bodies (Standing water, Running water); Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Broad-leaved deciduous woodland; Coniferous woodland; Bogs, Marshes, Water fringed vegetation, Fens; Heath, Scrub, Maquis and Garrigue, Phygrana	Natural England

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

10.5 National Nature Reserves (NNR)

Records within 2000m **3**

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.

Features are displayed on the Environmental designations map on **page 146**

ID	Location	Name	Data source
3	**On site**	**Humberhead Peatlands**	**Natural England**
5	1664m E	Humberhead Peatlands	Natural England
8	1851m E	Humberhead Peatlands	Natural England

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

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.

Features are displayed on the Environmental designations map on **page 146**

ID	Location	Name	Data source
7	1764m W	Buntings Wood, Thorne	Natural England

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

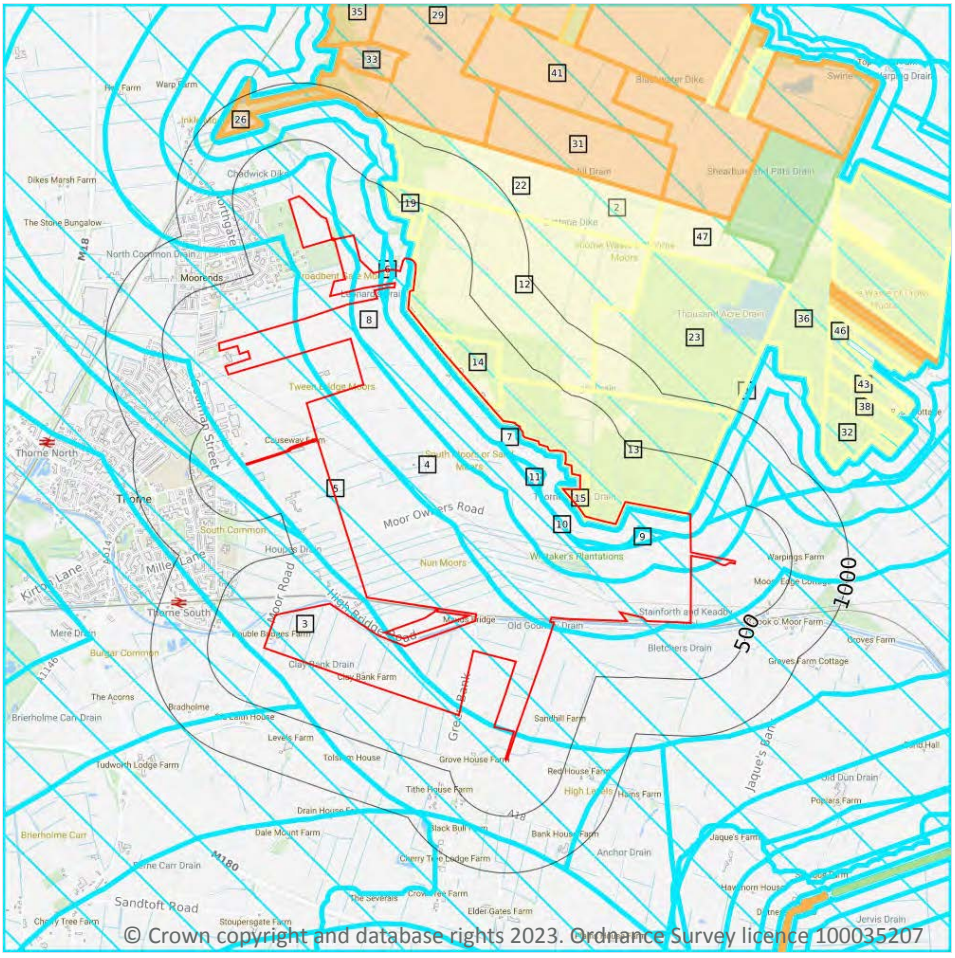
Records within 2000m	10

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

Location	Name	Type	NVZ ID	Status
On site	**LOWER DON NVZ**	**Surface Water**	**298**	**Existing**
On site	**North Soak Drain (trib of R Torne / Three Rivers) NVZ**	**Surface Water**	**352**	**Existing**
On site	**North Soak Drain (trib of R Torne / Three Rivers) NVZ**	**Surface Water**	**352**	**Existing**
26m NW	LOWER DON NVZ	Surface Water	298	Existing
200m N	Swinefleet Warping Drain Source to River Ouse NVZ	Surface Water	281	Existing
593m S	R Torne / Three Rivers from Mother Dr to R Trent NVZ	Surface Water	351	Existing
841m N	Swinefleet Warping Drain Source to River Ouse NVZ	Surface Water	281	Existing
962m E	Swinefleet Warping Drain Source to River Ouse NVZ	Surface Water	281	Existing
1317m SE	R Torne / Three Rivers from Mother Dr to R Trent NVZ	Surface Water	351	Existing
1326m SW	Nottinghamshire	Groundwater	40	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	11

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 152**

ID	Location	Type of developments requiring consultation
1	**On site**	**All applications - All planning applications - except householder applications.**
2	**On site**	**All applications - All planning applications.**

ID	Location	Type of developments requiring consultation
3	**On site**	**Infrastructure - Airports, helipads and other aviation proposals. Wind and Solar - Wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t). Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.**
4	**On site**	**Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 2m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

ID	Location	Type of developments requiring consultation
5	On site	**Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.**
6	On site	**All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 10 units or more. Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units. Air pollution - Any development that could cause air pollution (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management. Composting - Any composting proposal. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

ID	Location	Type of developments requiring consultation
7	**On site**	**All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures.** **Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction.** **Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha.** **Residential - Residential development of 10 units or more.** **Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.** **Air pollution - Any development that could cause air pollution or dust either in its construction or operation (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores).** **Combustion - All general combustion processes. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.** **Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management.** **Composting - Any composting proposal. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.** **Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream.** **Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

ID	Location	Type of developments requiring consultation
8	**On site**	**All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures.** **Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction.** **Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha.** **Residential - Residential development of 50 units or more.** **Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.** **Air pollution - Any development that could cause air pollution (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores).** **Combustion - All general combustion processes. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.** **Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management.** **Composting - Any composting proposal. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.** **Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream.** **Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

ID	Location	Type of developments requiring consultation
9	On site	**All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 10 units or more. Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units. Air pollution - Any development that could cause air pollution (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management. Composting - Any composting proposal. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

ID	Location	Type of developments requiring consultation
10	**On site**	**All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures.** **Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.** **Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.** **Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction.** **Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha.** **Residential - Residential development of 10 units or more.** **Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.** **Air pollution - Any development that could cause air pollution (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores).** **Combustion - All general combustion processes. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.** **Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management.** **Composting - Any composting proposal. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.** **Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream.** **Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

ID	Location	Type of developments requiring consultation
11	**On site**	**All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 10 units or more. Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units. Air pollution - Any development that could cause air pollution (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management. Composting - Any composting proposal. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**19**

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.

Features are displayed on the SSSI Impact Zones and Units map on **page 152**

ID: 12
Location: On site
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Dutch Canals
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	28/08/2012
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	28/08/2012
Raised bog (lowland)	Unfavourable - Recovering	28/08/2012

ID: 13
Location: On site
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Pony Bridge Wood
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	15/11/2010
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	15/11/2010
Raised bog (lowland)	Unfavourable - Recovering	15/11/2010

ID: 14
Location: On site
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Burtwistle's Land
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021

Feature name	Feature condition	Date of assessment
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	04/10/2010
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	04/10/2010
Raised bog (lowland)	Unfavourable - Recovering	04/10/2010

ID: 15
Location: On site
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Burtwistle's Land
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	04/10/2010
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	04/10/2010
Raised bog (lowland)	Unfavourable - Recovering	04/10/2010

ID: 19
Location: 181m N
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Bell's Pond
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	09/11/2012
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	09/11/2012
Raised bog (lowland)	Unfavourable - Recovering	09/11/2012

ID: 22
Location: 587m N
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Mill Drain Marsh & Greenbelt
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	14/08/2012
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	14/08/2012
Raised bog (lowland)	Unfavourable - Recovering	14/08/2012

ID: 23
Location: 591m NE
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Pony Bridge Marsh
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	28/08/2012
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	28/08/2012
Raised bog (lowland)	Unfavourable - Recovering	28/08/2012

ID: 26
Location: 706m NW
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Inkle Moor
Broad habitat: Neutral Grassland - Lowland
Condition: Unfavourable - Declining

Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
Invert. assemblage W312 sphagnum bog	-	-

ID: 29
Location: 943m N
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Rawcliffe
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Declining
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Declining	22/08/2022
Invert. assemblage W312 sphagnum bog	Not Recorded	01/01/1900
Raised bog (lowland)	Unfavourable - Declining	22/08/2022

ID: 31
Location: 1198m N
SSSI name: Thorne, Crowle and Goole Moors
Unit name: New Moor
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Declining
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Declining	22/08/2022

Feature name	Feature condition	Date of assessment
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	10/08/2012
Raised bog (lowland)	Unfavourable - Declining	22/08/2022

ID: 32
Location: 1206m E
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Crowle Southern Reserve
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	04/10/2012
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	04/10/2012
Raised bog (lowland)	Unfavourable - Recovering	04/10/2012

ID: 33
Location: 1207m N
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Paraffin Cuttings
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Declining
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Declining	22/08/2022
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	01/11/2010
Raised bog (lowland)	Unfavourable - Declining	22/08/2022

ID: 35
Location: 1348m N
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Snaith & Cowick
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Declining
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Declining	22/08/2022
Invert. assemblage W312 sphagnum bog	Not Recorded	01/01/1900
Raised bog (lowland)	Unfavourable - Declining	22/08/2022

ID: 36
Location: 1415m E
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Yorkshire Triangle
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	17/10/2012
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	17/10/2012
Raised bog (lowland)	Unfavourable - Recovering	17/10/2012

ID: 38
Location: 1613m E
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Mrs Lovells Strip
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering

Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	04/10/2012
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	04/10/2012
Raised bog (lowland)	Unfavourable - Recovering	04/10/2012

ID: 41
Location: 1699m N
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Creykes
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Declining
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Declining	01/09/2022
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	15/06/2012
Raised bog (lowland)	Unfavourable - Declining	01/09/2022

ID: 43
Location: 1787m E
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Crowle Southern Reserve
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	04/10/2012
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	04/10/2012
Raised bog (lowland)	Unfavourable - Recovering	04/10/2012

ID: 46
Location: 1905m NE
SSSI name: Thorne, Crowle and Goole Moors
Unit name: Mr Waters Land
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	28/09/2012
Invert. assemblage W312 sphagnum bog	Unfavourable - Recovering	28/09/2012
Raised bog (lowland)	Unfavourable - Recovering	28/09/2012

ID: 47
Location: 1948m NE
SSSI name: Thorne, Crowle and Goole Moors
Unit name: New Moor South
Broad habitat: Bogs - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Nightjar, Caprimulgus europaeus	Favourable	01/12/2015
Assemblages of breeding birds - Mixed: Lowland damp grassland, Lowland heath, Scrub, Woodland	Favourable	22/12/2021
H7120 Degraded raised bogs (still capable of natural regeneration)	Unfavourable - Recovering	30/06/2010

Feature name	Feature condition	Date of assessment
Invert. assemblage W312 sphagnum bog	Not Recorded	01/01/1900
Raised bog (lowland)	Unfavourable - Recovering	15/01/2021

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	0

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

This data is sourced from 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	0

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

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

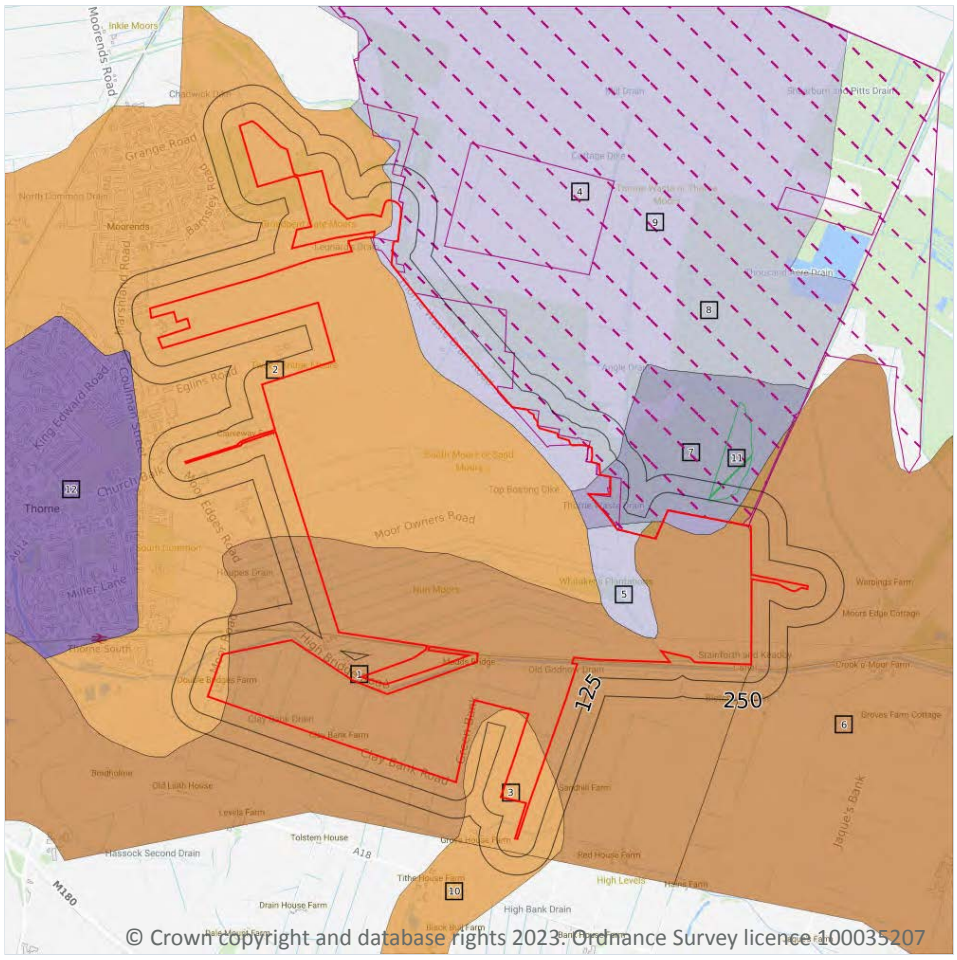
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



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12.1 Agricultural Land Classification

Records within 250m	9

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 171**

ID	Location	Classification	Description
1	**On site**	**Grade 2**	**Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.**
2	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
3	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
4	**On site**	**Grade 5**	**Very poor quality agricultural land. Land with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.**
5	**On site**	**Grade 5**	**Very poor quality agricultural land. Land with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.**
6	**On site**	**Grade 2**	**Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.**
7	**On site**	**Non Agricultural**	**-**
10	95m S	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
12	221m NW	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	**2**

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.

Features are displayed on the Agricultural designations map on **page 171**

ID	Location	Name	Classification	Other relevant legislation
8	**On site**	**Humberhead Peatlands NNR**	**Section 16 Dedicated Land**	**-**
9	**On site**	**Thorne Moors or Thorne Waste**	**Section 4 Conclusive Registered Common Land**	**-**

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

12.3 Tree Felling Licences

Records within 250m	**1**

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

Features are displayed on the Agricultural designations map on **page 171**

ID	Location	Description	Reference	Application date
11	115m E	Selective Fell/Thin (Unconditional)	012/77/15-16	12/11/2015

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	**9**

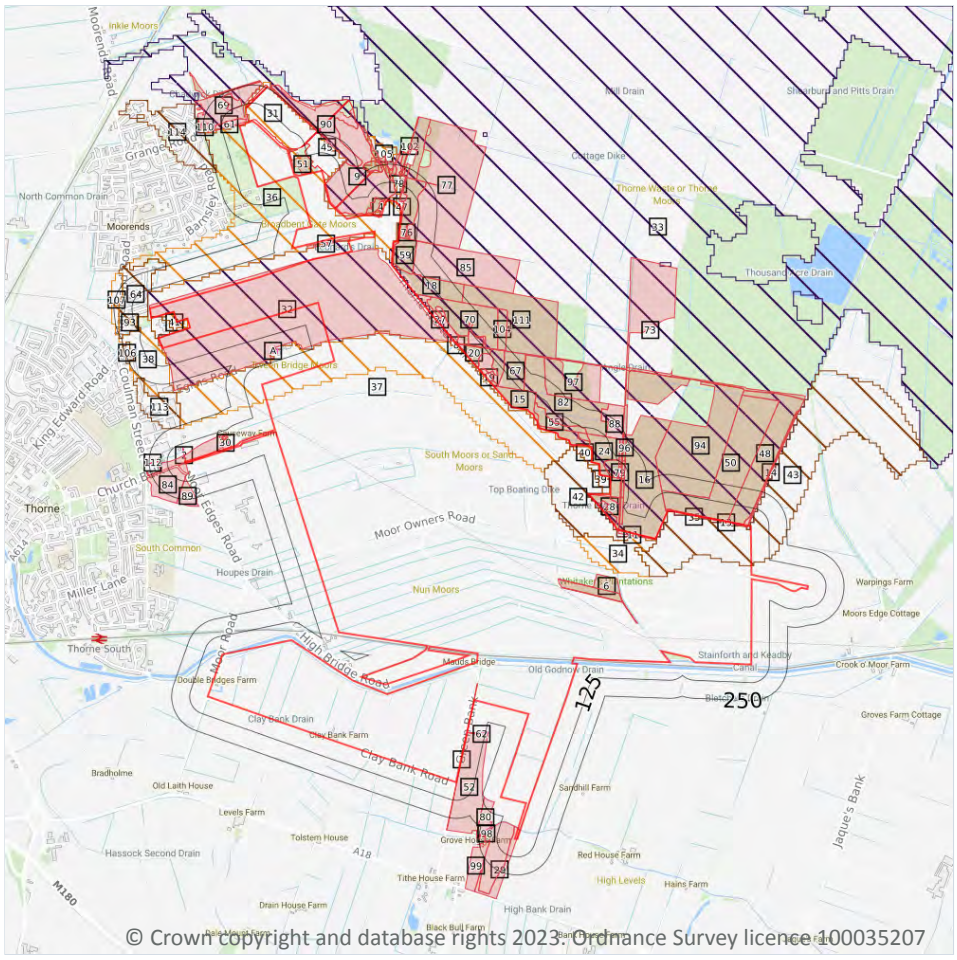
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
On site	**109278**	**Countryside Stewardship (Middle Tier)**	**01/01/2016**	**31/12/2021**

Location	Reference	Scheme	Start Date	End Date
On site	**489951**	**Countryside Stewardship (Middle Tier)**	**01/01/2018**	**31/12/2022**
On site	**489951**	**Countryside Stewardship (Middle Tier)**	**01/01/2018**	**31/12/2022**
On site	**646630**	**Countryside Stewardship (Middle Tier)**	**01/01/2019**	**31/12/2023**
On site	**646630**	**Countryside Stewardship (Middle Tier)**	**01/01/2019**	**31/12/2023**
On site	**828238**	**Countryside Stewardship (Middle Tier)**	**01/01/2020**	**31/12/2024**
On site	**828238**	**Countryside Stewardship (Middle Tier)**	**01/01/2020**	**31/12/2024**
24m SW	1109389	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
153m SE	489951	Countryside Stewardship (Middle Tier)	01/01/2018	31/12/2022

This data is sourced from Natural England.

13 Habitat designations



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13.1 Priority Habitat Inventory

Records within 250m	98

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 175**

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

ID	Location	Main Habitat	Other habitats
3	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	On site	Lowland heathland	Main habitat: LHEAT (INV > 50%); Additional: LFENS (INV 50%)
9	On site	Lowland meadows	Main habitat: LMEAD (INV > 50%)
10	On site	Lowland meadows	Main habitat: LMEAD (INV > 50%)
11	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
12	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
13	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%); LHEAT (INV > 50%)
14	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%); LHEAT (INV > 50%)
15	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%); DWOOD (INV 50%)
16	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
17	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
18	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
19	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
20	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
21	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
22	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
23	On site	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)

ID	Location	Main Habitat	Other habitats
24	**On site**	**Lowland raised bog**	**Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)**
25	**On site**	**Lowland raised bog**	**Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)**
26	**On site**	**Lowland raised bog**	**Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)**
27	**On site**	**Lowland raised bog**	**Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)**
28	**On site**	**Lowland raised bog**	**Main habitat: LRBOG (INV > 50%, ENSIS L1); DWOOD (INV > 50%); Additional: LFENS (INV 50%)**
29	**On site**	**No main habitat but additional habitats present**	**Additional: CFPGM (INV 50%)**
30	**On site**	**No main habitat but additional habitats present**	**Main habitat: CFPGM (INV > 50%)**
46	1m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
47	1m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
48	1m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
49	2m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); Additional: LFENS (INV 50%)
50	2m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
51	3m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
52	3m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
53	3m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); Additional: LFENS (INV 50%)
54	4m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
55	5m NE	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
56	5m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
57	7m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
58	8m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)

ID	Location	Main Habitat	Other habitats
59	8m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
60	11m N	Lowland meadows	Main habitat: DWOOD (INV > 50%); LMEAD (INV > 50%)
61	11m NW	Lowland meadows	Main habitat: LMEAD (INV > 50%)
62	15m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
63	15m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
65	16m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); Additional: LFENS (INV 50%)
66	18m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
67	19m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
68	21m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
69	25m NW	Lowland meadows	Main habitat: LMEAD (INV > 50%)
70	26m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
71	31m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
72	33m NE	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
73	34m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
74	37m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
75	45m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
76	46m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
77	51m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
79	55m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
80	55m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

ID	Location	Main Habitat	Other habitats
81	56m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
82	61m NE	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
83	61m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
84	64m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
85	74m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
86	75m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
87	78m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
88	92m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
89	101m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
90	116m N	Lowland meadows	Main habitat: LMEAD (INV > 50%)
91	122m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
92	124m NW	Lowland meadows	Main habitat: DWOOD (INV > 50%); LMEAD (INV > 50%)
94	131m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
95	136m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LMEAD (INV > 50%)
96	140m E	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
97	170m NE	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
98	171m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
99	176m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
100	177m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
101	177m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
B	183m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
B	183m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); Additional: LFENS (INV 50%)
102	184m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
C	185m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
A	186m NW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
103	186m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
104	188m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
C	191m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
D	202m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LMEAD (INV > 50%)
108	204m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
109	208m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
110	209m NW	Lowland meadows	Main habitat: LMEAD (INV > 50%)
111	215m N	Lowland raised bog	Main habitat: LRBOG (INV > 50%, ENSIS L1); LHEAT (INV > 50%); DWOOD (INV > 50%); Additional: LFENS (INV 50%)
112	216m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
115	243m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	**24**

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 175**

ID	Location	Type	Habitat
31	**On site**	**Primary Habitat**	**Lowland meadows**
32	**On site**	**Primary Habitat**	**Lowland meadows**
33	**On site**	**Primary Habitat**	**Lowland raised bog**
34	**On site**	**Network Enhancement Zone 1**	**Not specified**
35	**On site**	**Network Enhancement Zone 1**	**Not specified**
36	**On site**	**Network Enhancement Zone 1**	**Not specified**
37	**On site**	**Network Enhancement Zone 1**	**Not specified**
38	**On site**	**Network Enhancement Zone 1**	**Not specified**
39	**On site**	**Network Enhancement Zone 1**	**Not specified**
40	**On site**	**Network Enhancement Zone 1**	**Not specified**
41	**On site**	**Network Enhancement Zone 1**	**Not specified**
42	**On site**	**Network Enhancement Zone 2**	**Not specified**
43	**On site**	**Network Enhancement Zone 2**	**Not specified**
44	**On site**	**Network Enhancement Zone 2**	**Not specified**
64	15m NW	Network Enhancement Zone 2	Not specified
78	53m N	Network Enhancement Zone 1	Not specified
93	124m NW	Network Enhancement Zone 1	Not specified
A	176m NW	Associated Habitats	Other associated habitats
105	193m N	Network Enhancement Zone 1	Not specified
106	198m NW	Network Enhancement Zone 2	Not specified
107	202m NW	Network Enhancement Zone 1	Not specified
D	204m N	Network Enhancement Zone 1	Not specified
113	230m W	Network Enhancement Zone 2	Not specified
114	230m NW	Network Enhancement Zone 2	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	1

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.

Features are displayed on the Habitat designations map on **page 175**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
45	**On site**	**BRITPITS ref: 1465**	**Low**	**British Geological Survey BRITPITS database**	**UK Perspectives Aerial Photography**	**-**

This data is sourced from Natural England.

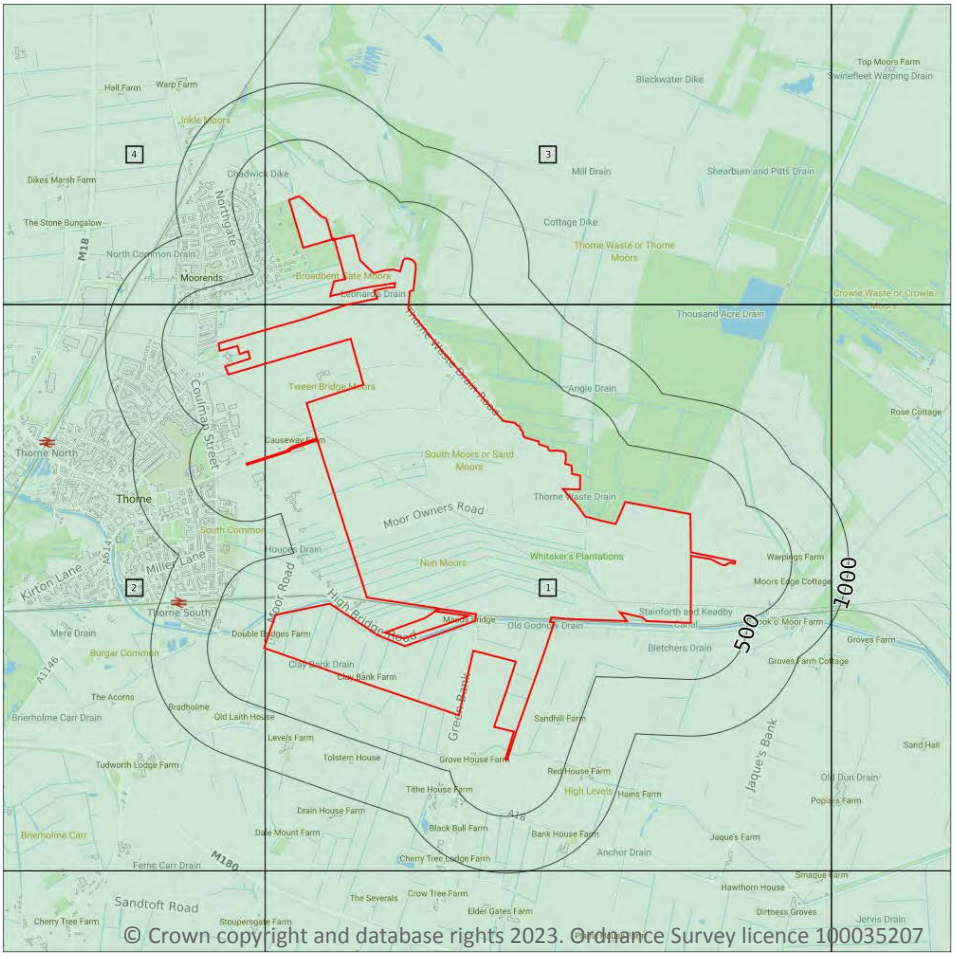
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m	4

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 183**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**No coverage**	**SE71SW**
2	**On site**	**No coverage**	**Full**	**Full**	**No coverage**	**SE61SE**
3	**On site**	**No coverage**	**Full**	**Full**	**No coverage**	**SE71NW**
4	211m NW	No coverage	Full	Full	No coverage	SE61NE

This data is sourced from the British Geological Survey.

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

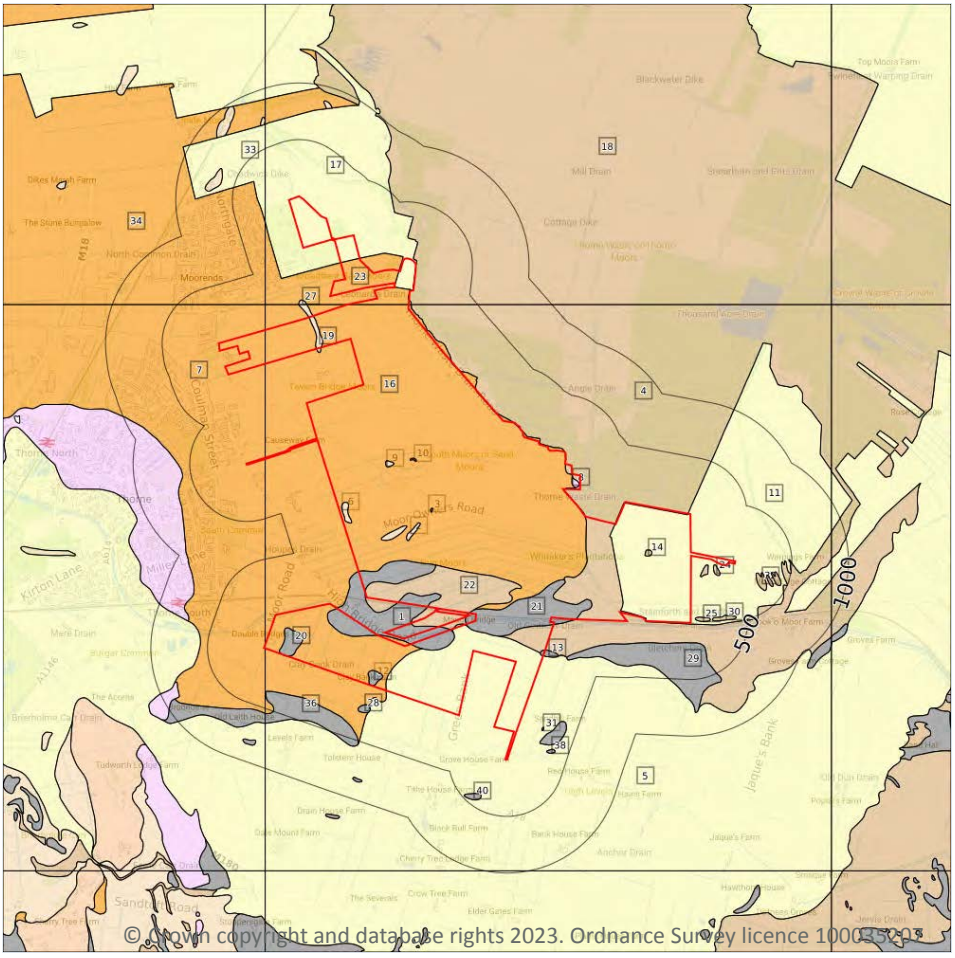
14.2 Artificial and made ground (10k)

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



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	40

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 186**

ID	Location	LEX Code	Description	Rock description
1	On site	BSA1-S	Blown Sand, 1 - Sand	Sand
2	On site	BREI-S	Breighton Sand Formation - Sand	Sand
3	On site	BREI-S	Breighton Sand Formation - Sand	Sand
4	On site	PEAT-P	Peat - Peat	Peat

ID	Location	LEX Code	Description	Rock description
5	**On site**	**ALV-XCZSV**	**Alluvium - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
6	**On site**	**BREI-S**	**Breighton Sand Formation - Sand**	**Sand**
7	**On site**	**HEM-CZ**	**Hemingbrough Glaciolacustrine Formation - Silty Clay**	**Clay, Silty**
8	**On site**	**GFDUD-XSV**	**Glaciofluvial Deposits, Devensian - Sand And Gravel**	**Sand And Gravel**
9	**On site**	**BREI-S**	**Breighton Sand Formation - Sand**	**Sand**
10	**On site**	**BREI-S**	**Breighton Sand Formation - Sand**	**Sand**
11	**On site**	**ALV-XCZSV**	**Alluvium - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
12	**On site**	**BSA1-S**	**Blown Sand, 1 - Sand**	**Sand**
13	**On site**	**BSA1-S**	**Blown Sand, 1 - Sand**	**Sand**
14	**On site**	**PEAT-P**	**Peat - Peat**	**Peat**
15	**On site**	**BREI-S**	**Breighton Sand Formation - Sand**	**Sand**
16	**On site**	**HEM-CZ**	**Hemingbrough Glaciolacustrine Formation - Silty Clay**	**Clay, Silty**
17	**On site**	**ALV-XCZSV**	**Alluvium - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
18	**On site**	**PEAT-P**	**Peat - Peat**	**Peat**
19	**On site**	**BREI-S**	**Breighton Sand Formation - Sand**	**Sand**
20	**On site**	**BSA1-S**	**Blown Sand, 1 - Sand**	**Sand**
21	**On site**	**BSA1-S**	**Blown Sand, 1 - Sand**	**Sand**
22	**On site**	**PEAT-P**	**Peat - Peat**	**Peat**
23	**On site**	**HEM-CZ**	**Hemingbrough Glaciolacustrine Formation - Silty Clay**	**Clay, Silty**
24	27m E	PEAT-P	Peat - Peat	Peat
25	41m SE	PEAT-P	Peat - Peat	Peat
26	56m E	PEAT-P	Peat - Peat	Peat
27	114m NW	BREI-S	Breighton Sand Formation - Sand	Sand
28	175m SW	BSA1-S	Blown Sand, 1 - Sand	Sand
29	177m SE	BSA1-S	Blown Sand, 1 - Sand	Sand
30	192m SE	PEAT-P	Peat - Peat	Peat
31	205m S	BSA1-S	Blown Sand, 1 - Sand	Sand
32	210m E	PEAT-P	Peat - Peat	Peat

ID	Location	LEX Code	Description	Rock description
33	211m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
34	216m NW	HEM-CZ	Hemingbrough Glaciolacustrine Formation - Silty Clay	Clay, Silty
35	227m S	BSA1-S	Blown Sand, 1 - Sand	Sand
36	301m SW	BSA1-S	Blown Sand, 1 - Sand	Sand
37	301m E	PEAT-P	Peat - Peat	Peat
38	310m S	BSA1-S	Blown Sand, 1 - Sand	Sand
39	331m E	PEAT-P	Peat - Peat	Peat
40	378m S	BSA1-S	Blown Sand, 1 - Sand	Sand

This data is sourced from the British Geological Survey.

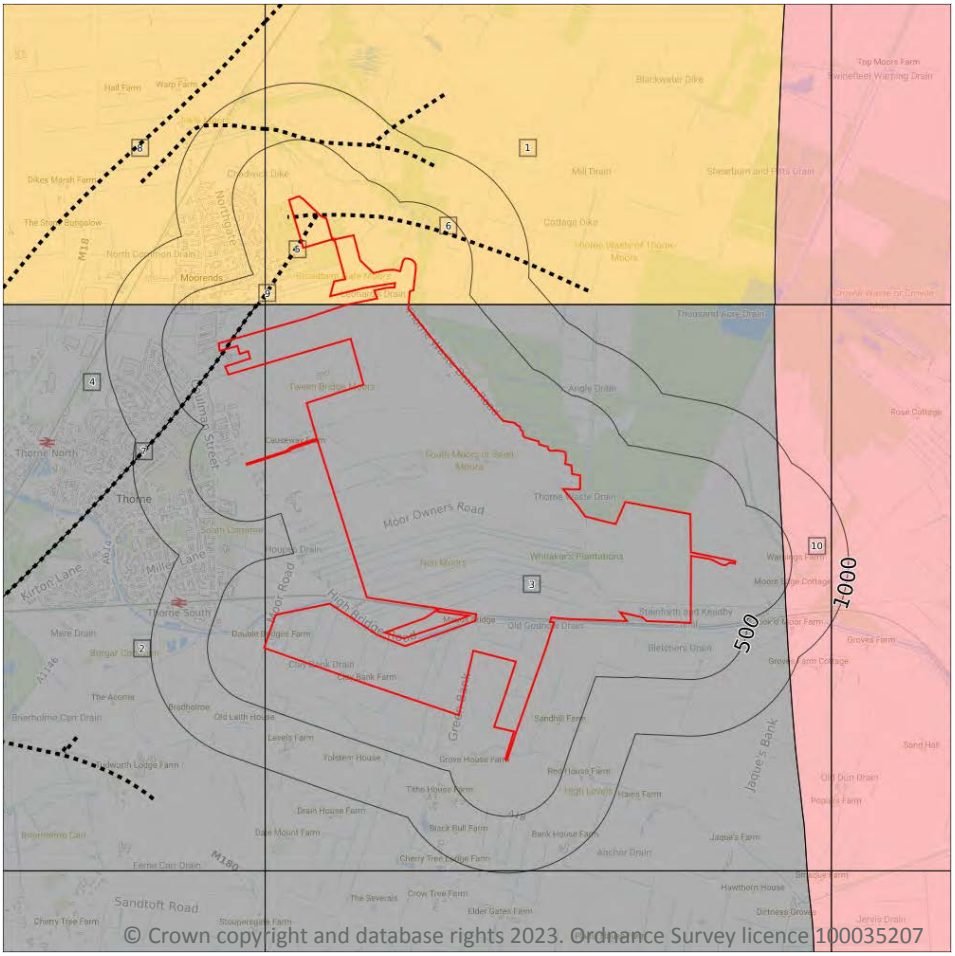
14.4 Landslip (10k)

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock


500
1000
Moor Owners Road
Thorne
Thorne North
Thorne South
Kirton Lane
Miller Lane
Sandtoft Road
Jacque's Bank
Moorends
Northlode
Mill Drain
Cottage Dike
Angle Drain
Thorne Waste Drain
Old Goole Drain
Bletchers Drain
Sandhill Farm
Grove House Farm
Jaque's Farm
Hawthorn House
Dirtness Grove
Jenkin Drain
Sandhill Drain
Old Dun Drain
Poplars Farm
Sand Hall
Groves Farm
Rose Cottage
Whitaker's Plantations
Thorne Moors
Moor Lodge
Old Lathe House
Levels Farm
Tolstern House
Bank House Farm
Black Bull Farm
Drain House Farm
Dale Mount Farm
Cherry Tree Lodge Farm
Crow Tree Farm
Elder Gates Farm
The Severals
Stoupersgate Farm
Cherry Tree Farm
Briarholme Carr Drain
Ferme Carr Drain
Marr Drain
Burgar Drain
Old Goole Drain
Cow Bank Farm
Daubit Bridges Farm
Rosthorne Lodge Farm
Briarholme
The Acorns
Briarholme Carr
Dale Mount
Hall Farm
Warp Farm
Dikes Marsh Farm
The Stables Bungalow
North Common Drain
Blackwater Dike
Top Moors Farm
Swinefleet Warping Drain
Thousand Acre Drain
Rosehill Drain
Tween Bridge Drain
Causeway Drain
Thorne Waste Drain
Whitaker's Plantations
Moor Lodge
Old Goole Drain
Bletchers Drain
Sandhill Drain
Old Dun Drain
Poplars Farm
Sand Hall
Groves Farm
Rose Cottage
Jenkin Drain
Hawthorn House
Dirtness Grove
Jaque's Bank
Jaque's Farm
Anchor Drain

ID	Location	LEX Code	Description	Rock age
4	**On site**	**NTC-SDST**	**Nottingham Castle Sandstone Formation - Sandstone**	**Early Triassic Epoch**
8	211m NW	SSG-SDST	Sherwood Sandstone Group - Sandstone	Ladinian Age - Late Permian Epoch [Obsolete name]
10	429m E	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m **4**

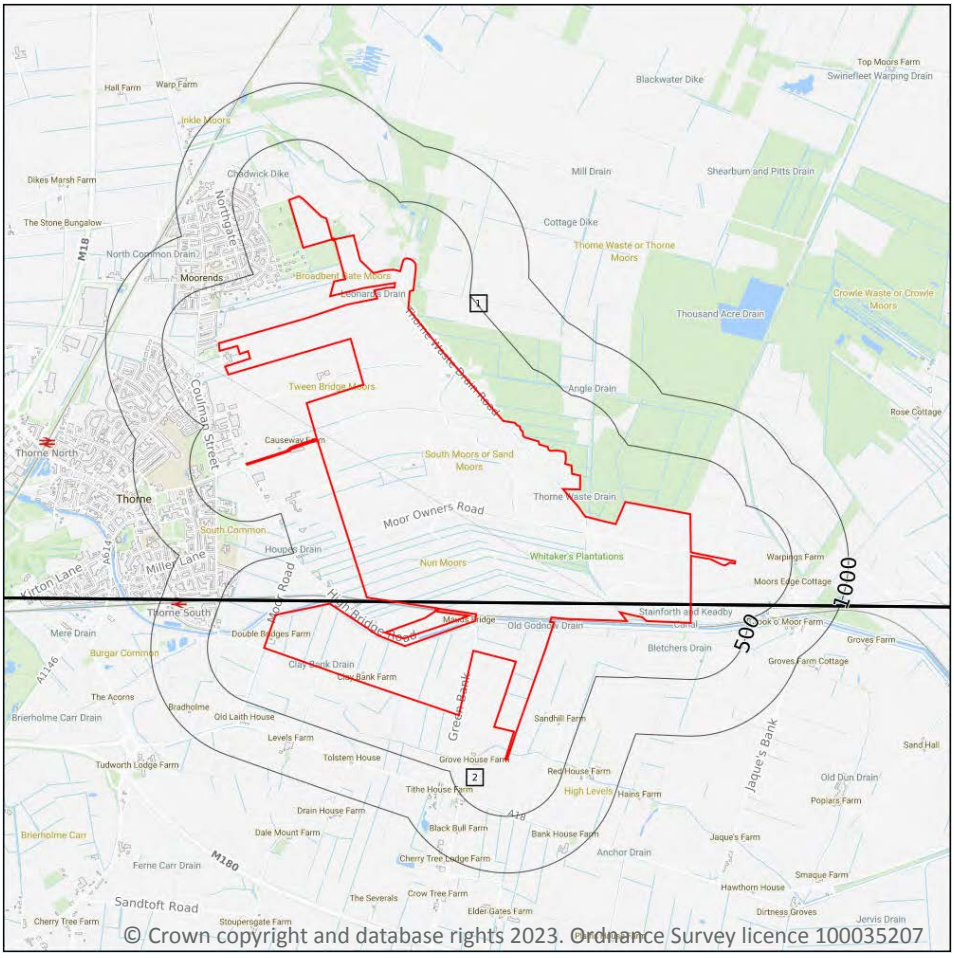
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 189**

ID	Location	Category	Description
5	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
6	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
7	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
9	233m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



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Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	2

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 191**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW079_goole_v4
2	On site	No coverage	Full	Full	No coverage	EW088_doncaster_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.

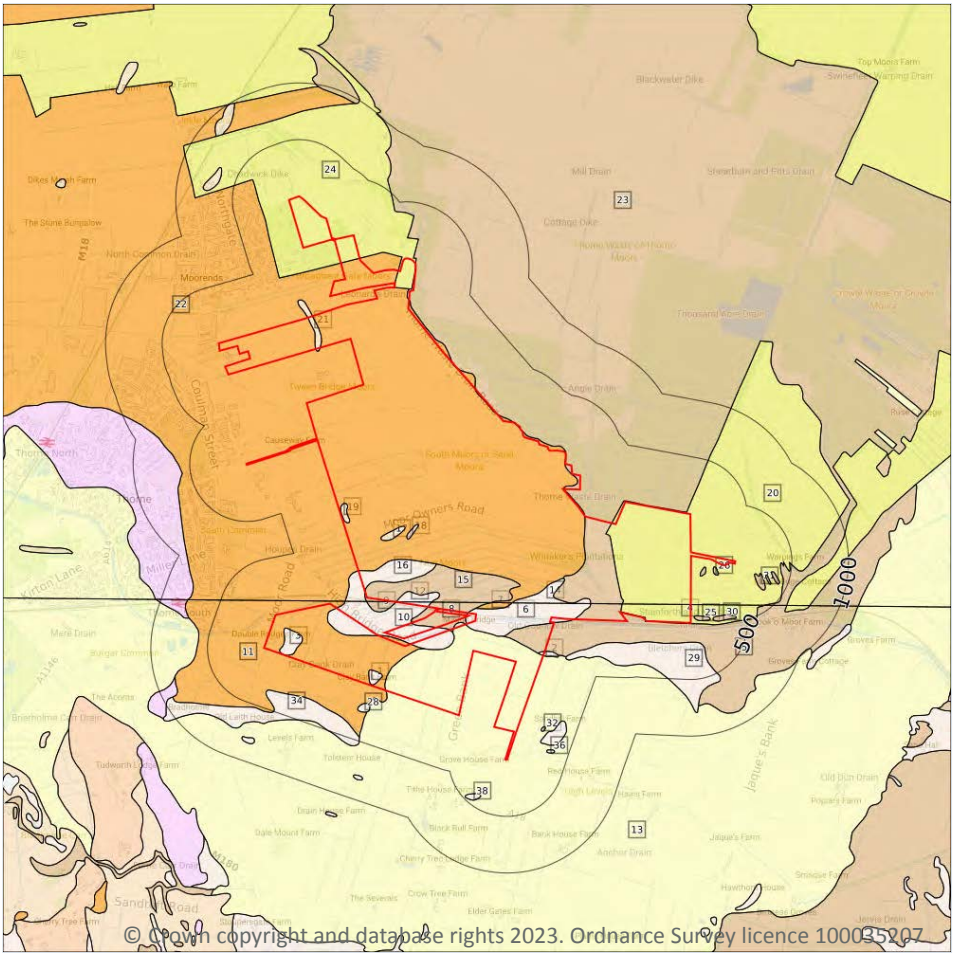
15.3 Artificial ground permeability (50k)

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 **38**

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 193**

ID	Location	LEX Code	Description	Rock description
1	On site	SUTN-S	SUTTON SAND FORMATION	SAND
2	On site	SUTN-S	SUTTON SAND FORMATION	SAND
3	On site	SUTN-S	SUTTON SAND FORMATION	SAND
4	On site	WARP-XCZ	WARP	CLAY AND SILT

ID	Location	LEX Code	Description	Rock description
5	**On site**	**PEAT-P**	**PEAT**	**PEAT**
6	**On site**	**SUTN-S**	**SUTTON SAND FORMATION**	**SAND**
7	**On site**	**HEM-CZ**	**HEMINGBROUGH GLACIOLACUSTRINE FORMATION**	**CLAY, SILTY**
8	**On site**	**PEAT-P**	**PEAT**	**PEAT**
9	**On site**	**PEAT-P**	**PEAT**	**PEAT**
10	**On site**	**SUTN-S**	**SUTTON SAND FORMATION**	**SAND**
11	**On site**	**HEM-CZ**	**HEMINGBROUGH GLACIOLACUSTRINE FORMATION**	**CLAY, SILTY**
12	**On site**	**SUTN-S**	**SUTTON SAND FORMATION**	**SAND**
13	**On site**	**ALV-XCZSV**	**ALLUVIUM**	**CLAY, SILT, SAND AND GRAVEL**
14	**On site**	**SUTN-S**	**SUTTON SAND FORMATION**	**SAND**
15	**On site**	**PEAT-P**	**PEAT**	**PEAT**
16	**On site**	**SUTN-S**	**SUTTON SAND FORMATION**	**SAND**
17	**On site**	**BREI-S**	**BREIGHTON SAND FORMATION**	**SAND**
18	**On site**	**BREI-S**	**BREIGHTON SAND FORMATION**	**SAND**
19	**On site**	**BREI-S**	**BREIGHTON SAND FORMATION**	**SAND**
20	**On site**	**WARP-XCZ**	**WARP**	**CLAY AND SILT**
21	**On site**	**BREI-S**	**BREIGHTON SAND FORMATION**	**SAND**
22	**On site**	**HEM-CZ**	**HEMINGBROUGH GLACIOLACUSTRINE FORMATION**	**CLAY, SILTY**
23	**On site**	**PEAT-P**	**PEAT**	**PEAT**
24	**On site**	**WARP-XCZ**	**WARP**	**CLAY AND SILT**
25	31m SE	PEAT-P	PEAT	PEAT
26	44m E	PEAT-P	PEAT	PEAT
27	78m E	PEAT-P	PEAT	PEAT
28	163m SW	SUTN-S	SUTTON SAND FORMATION	SAND
29	171m SE	SUTN-S	SUTTON SAND FORMATION	SAND
30	198m SE	PEAT-P	PEAT	PEAT
31	198m E	PEAT-P	PEAT	PEAT
32	202m S	SUTN-S	SUTTON SAND FORMATION	SAND

ID	Location	LEX Code	Description	Rock description
33	231m S	SUTN-S	SUTTON SAND FORMATION	SAND
34	292m SW	SUTN-S	SUTTON SAND FORMATION	SAND
35	294m E	PEAT-P	PEAT	PEAT
36	309m S	SUTN-S	SUTTON SAND FORMATION	SAND
37	333m E	PEAT-P	PEAT	PEAT
38	382m S	SUTN-S	SUTTON SAND FORMATION	SAND

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m **20**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**High**	**Very Low**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**Low**	**Very Low**
On site	**Intergranular**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**
On site	**Intergranular**	**High**	**High**

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
31m SE	Mixed	Low	Very Low
44m E	Mixed	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.

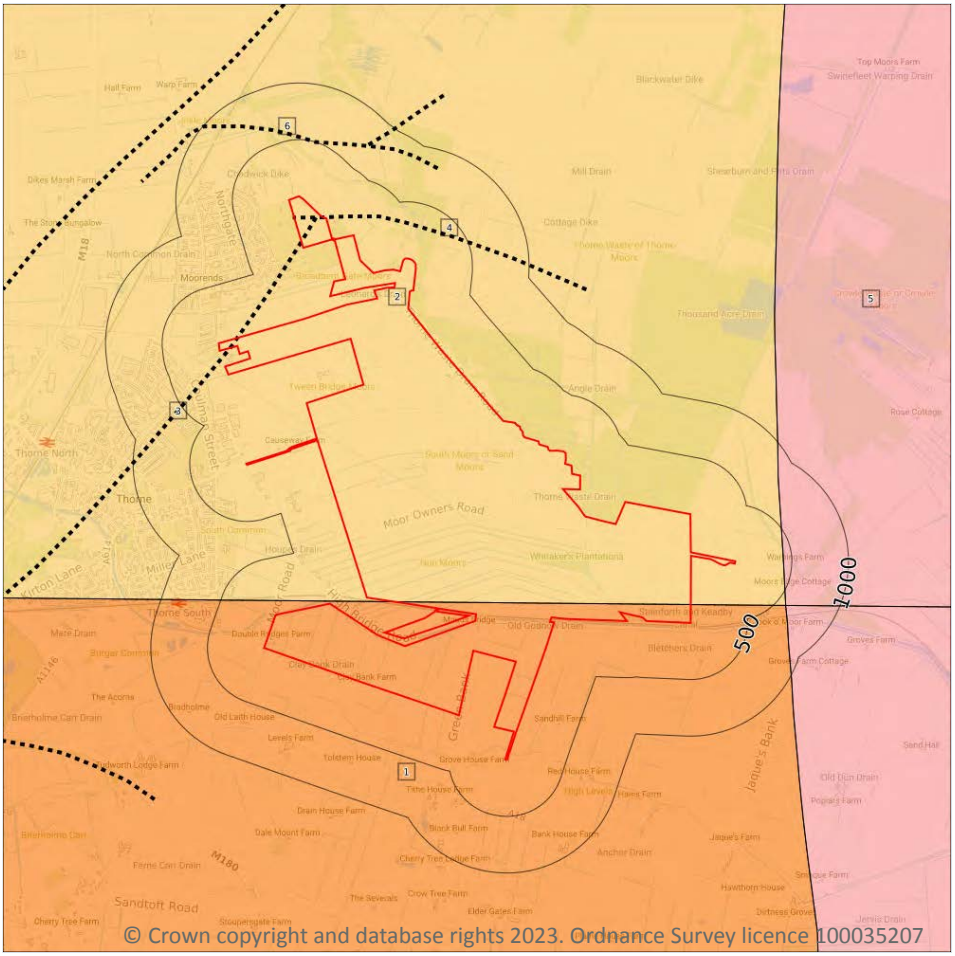
15.7 Landslip permeability (50k)

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



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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 **3**

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 197**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CHES-PESST**	**CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)**	**OLENEKIAN**
2	**On site**	**SSG-SDST**	**SHERWOOD SANDSTONE GROUP - SANDSTONE**	**-**
5	426m E	MMG-MDST	MERCIA MUDSTONE GROUP - MUDSTONE	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	5

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**High**	**Moderate**
On site	**Mixed**	**High**	**Moderate**
On site	**Mixed**	**High**	**High**
On site	**Mixed**	**High**	**High**
On site	**Mixed**	**High**	**High**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	3

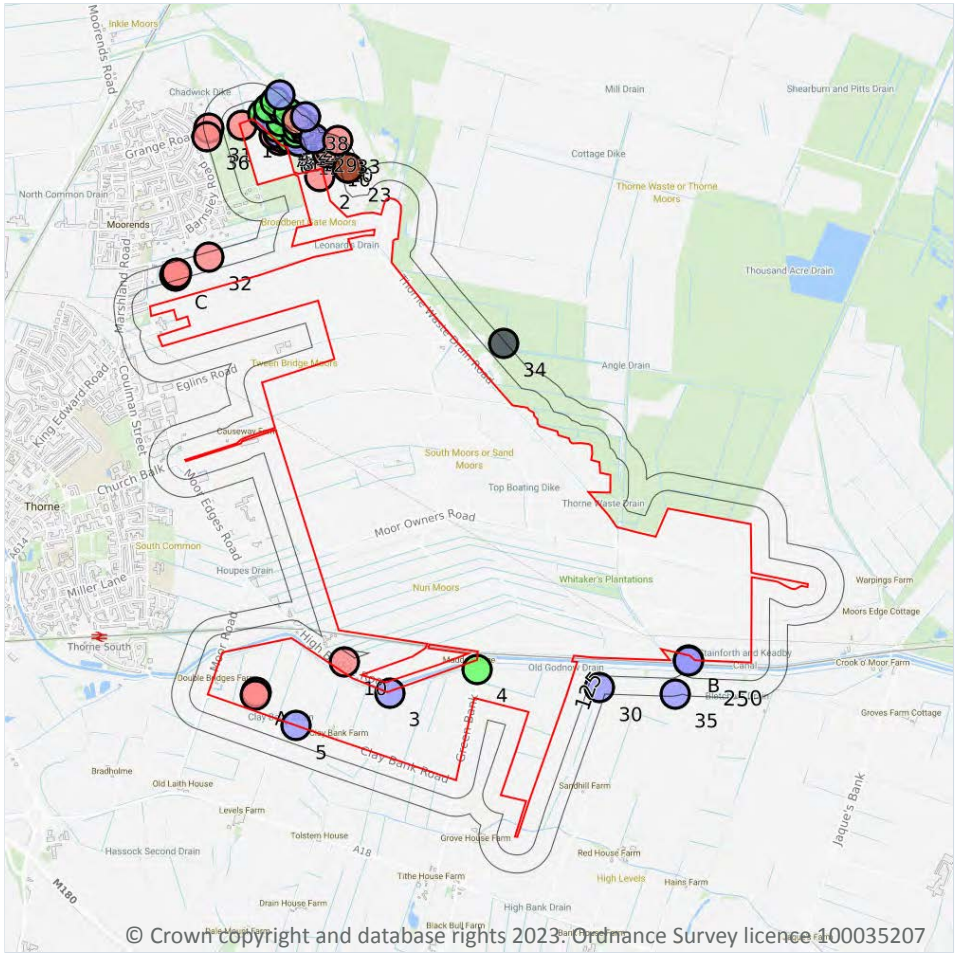
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 197**

ID	Location	Category	Description
3	**On site**	**FAULT**	**Fault, inferred**
4	**On site**	**FAULT**	**Fault, inferred**
6	500m N	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m **46**

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 199**

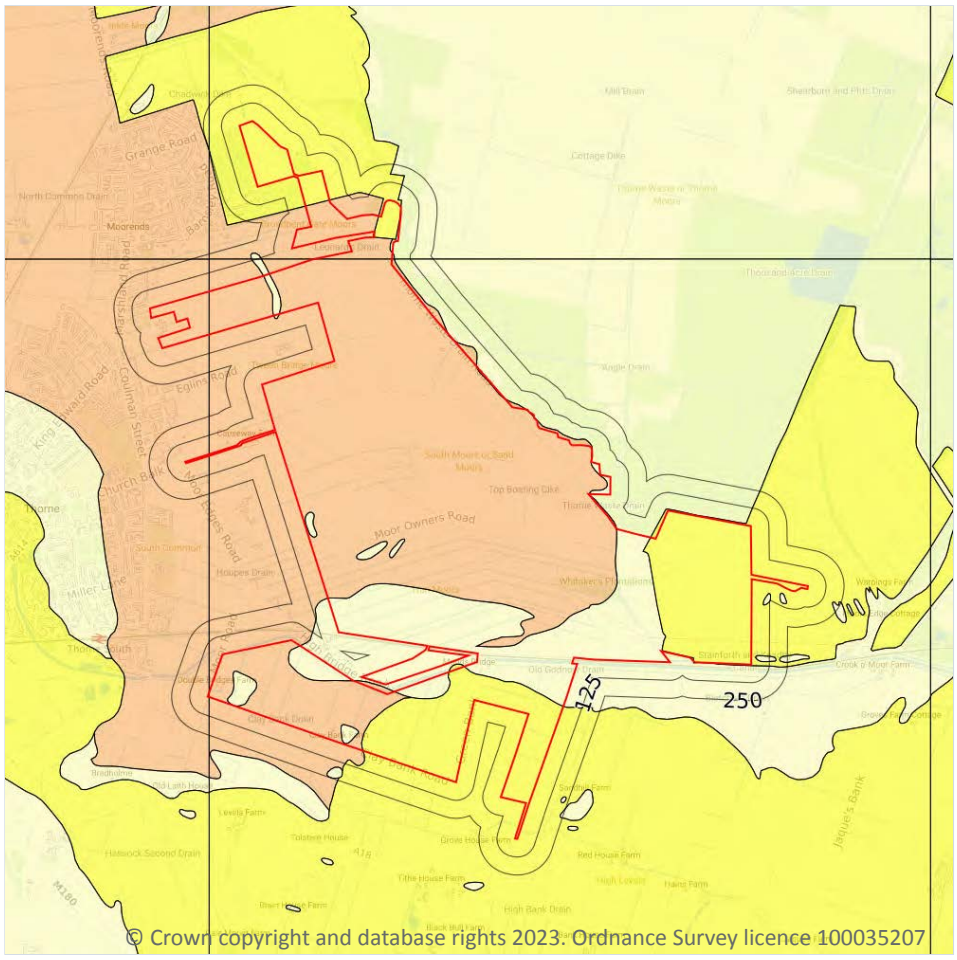
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	470229 415916	THORNE PIGHILL THORNE	193.0	N	124697
2	On site	470767 415560	THORNE COLLIERY NO.7 UGBH	62.0	N	124706
3	On site	471250 411980	A18 SCUNTHORPE 4	7.62	N	124800

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	**On site**	**471856 412142**	**M180 PRELIM SURVEY**	**10.82**	**N**	**124801**
A	**On site**	**470323 411982**	**HATFIELD COLLIERY NO.45 UGBH**	**63.09**	**N**	**124808**
A	**On site**	**470322 411965**	**HATFIELD COLLIERY NO.45A UGBH**	**67.06**	**N**	**124809**
5	2m SW	470603 411751	M180 PRELIM SURVEY	7.62	N	124799
6	20m NW	470493 415809	THORNE COLLIERY NO.2 WATER BH	91.44	N	124711
7	22m NW	470452 415850	THORNE 1	259.08	N	124696
B	28m SE	473320 412210	NEW ZEALND P.S. 1	9.65	N	124821
B	36m SE	473320 412200	NEW ZEALND P.S. 2	9.95	N	124822
8	47m NW	470513 415827	MOORENDS THORNE	91.44	N	124684
9	48m NW	470480 415860	THORNE COLLIERY TP7	2.0	N	124736
10	63m SW	470936 412194	ORCHARD FARM MOOR EDGES THORNE	38.1	N	124787
11	63m NW	470560 415820	THORNE COLLIERY 14	17.0	N	124728
12	68m NW	470370 415990	THORNE COLLIERY 12	19.0	N	124726
13	70m NW	470470 415900	THORNE COLLIERY 13	22.5	N	124727
14	72m NW	470410 415960	THORNE COLLIERY TP 5	2.0	N	124734
15	89m N	470620 415800	THORNE COLLIERY TP 6	2.0	N	124735
16	116m N	470821 415720	THORNE COLLIERY CENTRE SHAFT 3	489.8	N	124708
17	117m N	470600 415860	THORNE COLLIERY 11	25.0	N	124725
18	120m NW	470500 415940	THORNE COLLIERY 10	21.65	N	124724
19	124m NW	470410 416030	THORNE COLLIERY 9	18.7	N	124723
20	151m N	470840 415750	THORNE COLLIERY 8	33.0	N	124722
21	156m N	470615 415896	THORNE COLLIERY WELL + WATER BH	16.15	N	124710
C	156m NW	469767 414871	THORNE COLL NUMBER 10A U.G.B.H.	60.36	N	121073
C	158m NW	469764 414872	THORNE COLL NUMBER 10 U.G.B.H.	61.03	N	121071
C	167m NW	469771 414883	THORNE COLLIERY NO.10A UGBH	60.3	N	121130
C	169m NW	469773 414886	THORNE COLLIERY NO.10 UGBH	61.03	N	121129
22	174m N	470665 415881	THORNE COLLIERY 1	923.24	N	124680
23	180m N	470966 415614	THORNE COLLIERY NO.2 NORTH SIDE SHAFT	-1.0	N	124714

ID	Location	Grid reference	Name	Length	Confidential	Web link
24	185m N	470510 416020	THORNE COLLIERY TP 3	2.0	N	124732
25	194m NW	470460 416080	THORNE COLLIERY 5	15.0	N	124719
26	195m N	470650 415920	THORNE COLLIERY 7	30.0	N	124721
27	198m N	470550 416000	THORNE COLLIERY 6	26.0	N	124720
28	199m N	470606 415948	THORNE COLLIERY 2	881.18	N	124681
29	199m N	470730 415820	THORNE COLLIERY TP 4	2.0	N	124733
30	203m SE	472706 412014	M180 PRELIM SURVEY	6.1	N	124802
31	213m NW	470000 415890	MOORENDS	93.57	N	124745
32	216m NW	470000 415000	THORNE BORING	368.8	N	18533421
33	226m N	470890 415810	THORNE COLLIERY 4	31.5	N	124718
34	238m N	472042 414402	PROPOSED AIRPORT GOOLE/THORNE	-	Y	N/A
35	238m SE	473230 411970	A18 SCUNTHORPE 7	6.1	N	124803
36	243m NW	469983 415837	MOORENDS THORNE	93.57	N	120918
37	244m N	470490 416120	THORNE COLLIERY TP 1	1.0	N	124730
38	247m N	470670 415970	THORNE COLLIERY TP 2	1.0	N	124731

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	5

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).

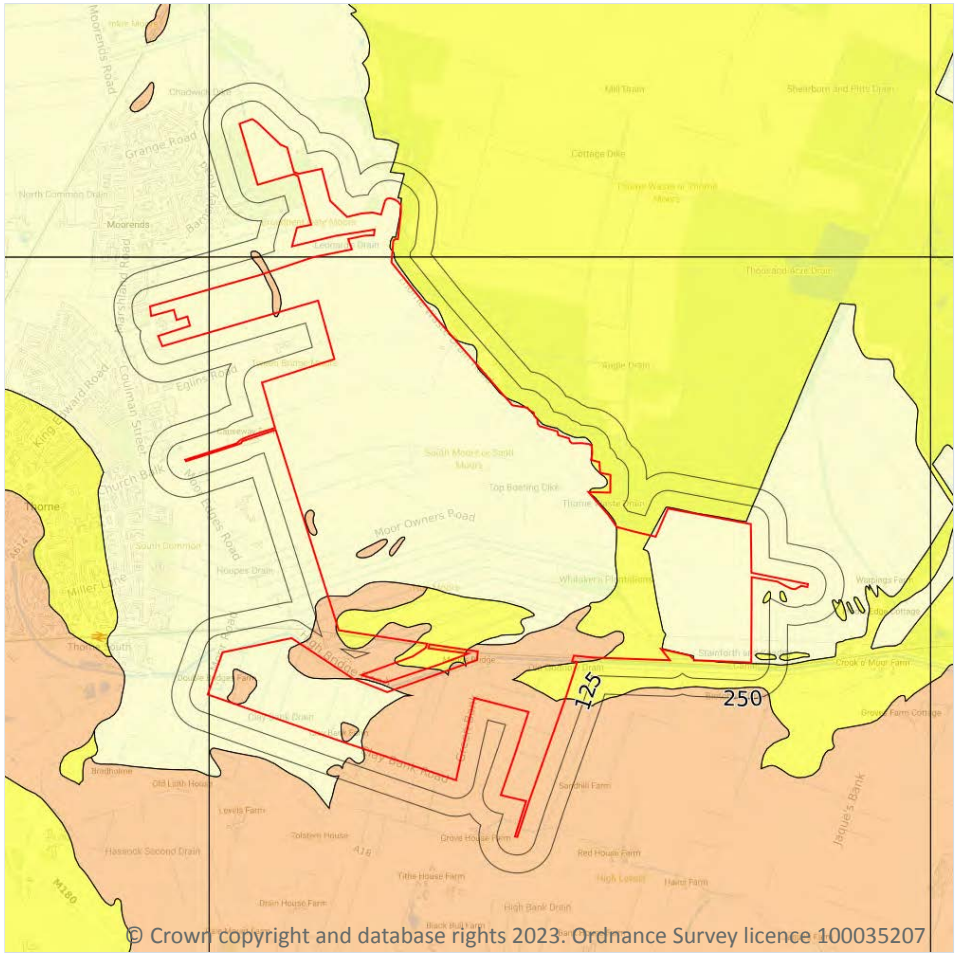
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 202**

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

Location	Hazard rating	Details
31m SE	Negligible	Ground conditions predominantly non-plastic.
44m E	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	5

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

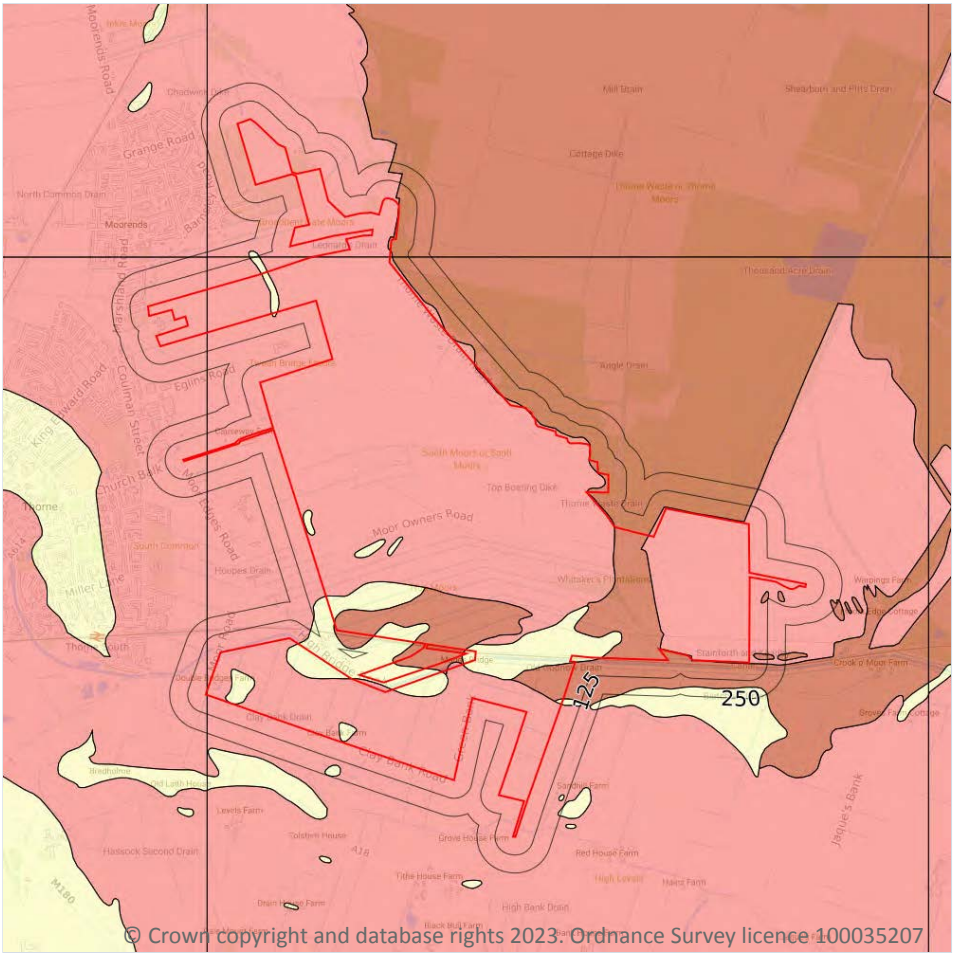
Features are displayed on the Natural ground subsidence - Running sands map on **page 204**

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

Location	Hazard rating	Details
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**
31m SE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
44m E	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	5

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.

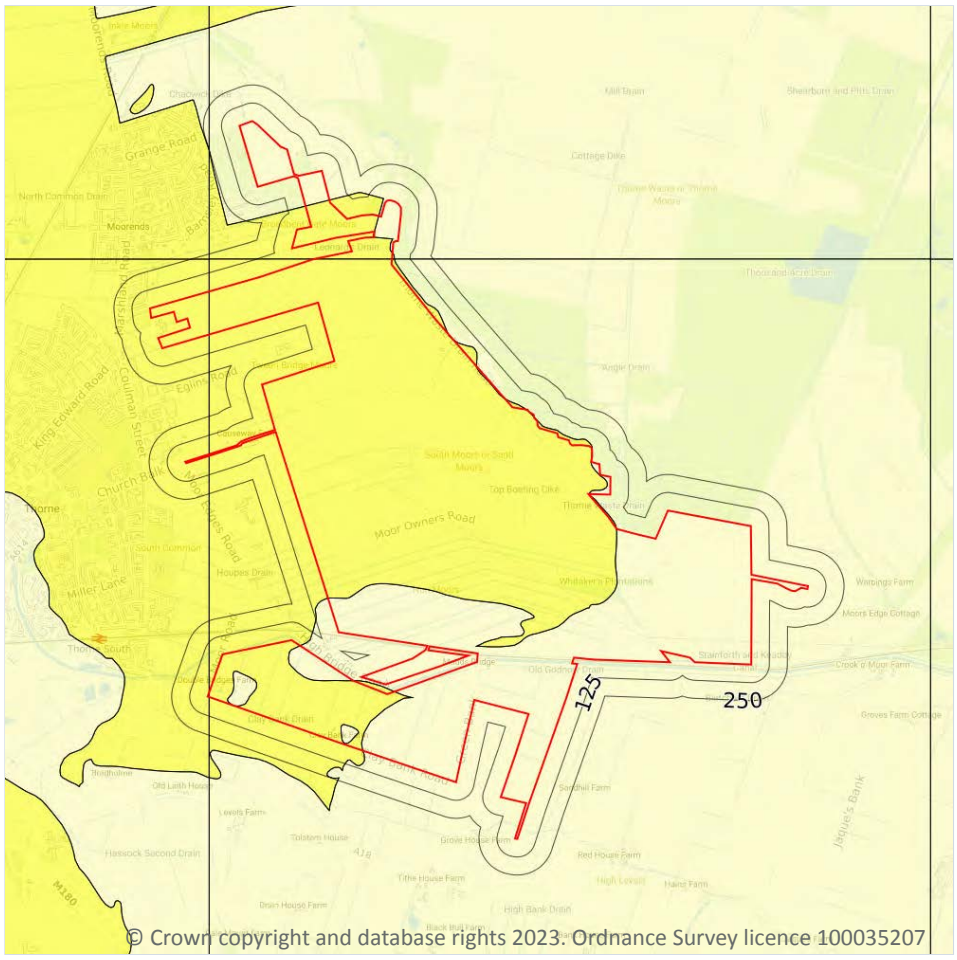
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 206**

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

Location	Hazard rating	Details
On site	**High**	**Highly compressible strata present. Significant constraint on land use depending on thickness.**
31m SE	High	Highly compressible strata present. Significant constraint on land use depending on thickness.
44m E	High	Highly compressible strata present. Significant constraint on land use depending on thickness.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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17.4 Collapsible deposits

Records within 50m	2

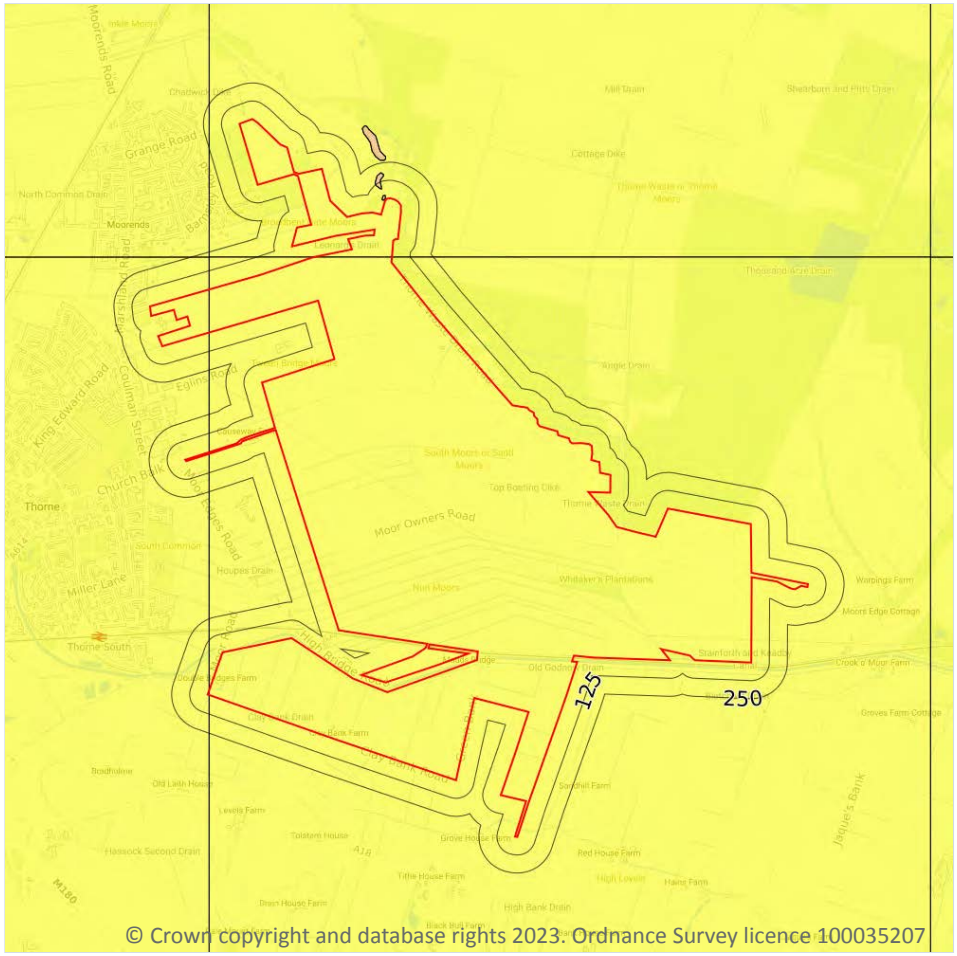
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 208**

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

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	2

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.

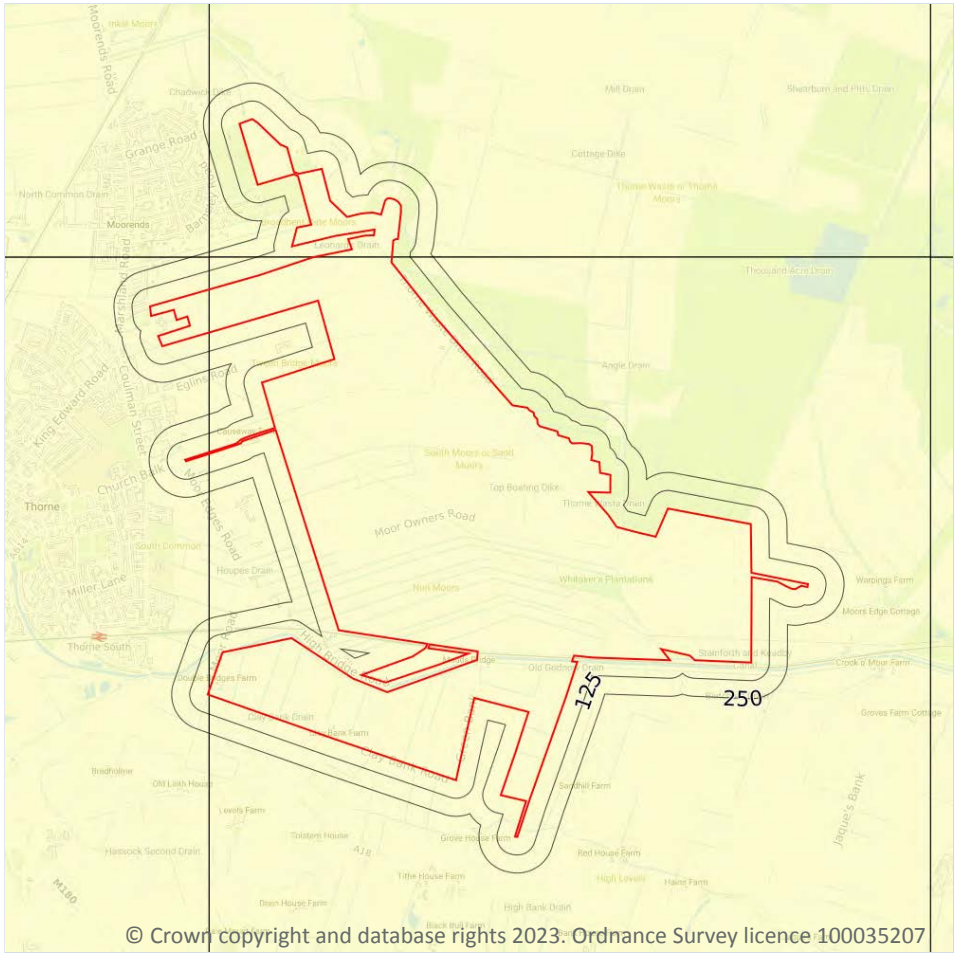
Features are displayed on the Natural ground subsidence - Landslides map on **page 209**

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.**

Location	Hazard rating	Details
10m N	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

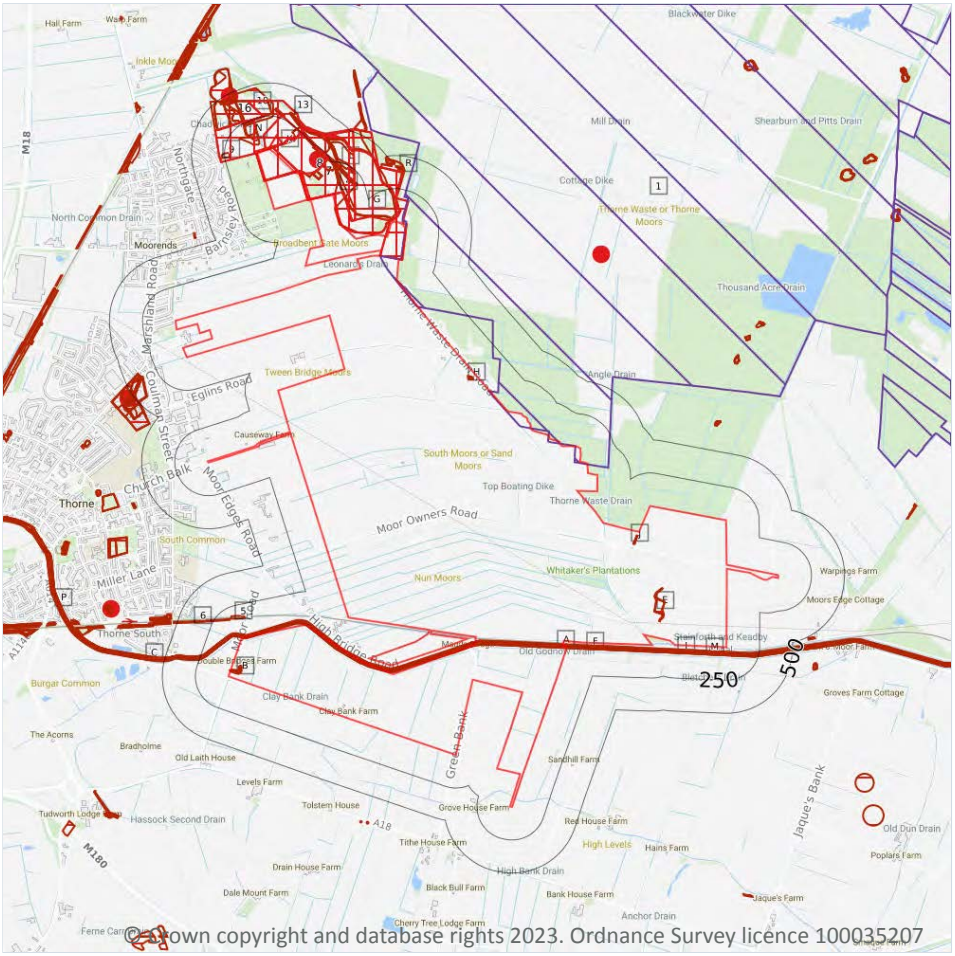
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 211**

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, ground workings and natural cavities



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Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m	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.

18.2 BritPits

Records within 500m	3

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 213**

ID	Location	Details	Description
7	174m N	Name: Thorne Colliery, No. 1 Shaft Address: Moorends, DONCASTER, South Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
8	188m N	Name: Thorne Colliery, No 2 Shaft Address: Moorends, DONCASTER, South Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
16	484m NW	Name: Thorne Colliery Brickworks Address: Thorne, DONCASTER, South Yorkshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	60

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 213**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Canal	1968	1:10000
A	On site	Canal	1955	1:10560
B	On site	Pond	1968	1:10000
B	On site	Pond	1948	1:10560
B	On site	Pond	1904	1:10560
B	On site	Ponds	1930	1:10560
B	On site	Pond	1955	1:10560
C	On site	Canal	1948	1:10560
C	On site	Canal	1904	1:10560
C	On site	Canal	1930	1:10560
C	On site	Canal	1907	1:10560
D	On site	Colliery	1930	1:10560
D	On site	Colliery	1930	1:10560
E	On site	Pond	1906	1:10560
E	On site	Water Body	1908	1:10560
E	On site	Pond	1891	1:10560
F	On site	Canal	1906	1:10560
F	On site	Canal	1948	1:10560
G	On site	Refuse Heap	1983	1:10000
G	On site	Refuse Heap	1969	1:10560
H	On site	Pond	1908	1:10560
H	On site	Pond	1955	1:10560
H	On site	Pond	1948	1:10560
I	On site	Canal	1908	1:10560
I	On site	Canal	1948	1:10560
I	On site	Canal	1891	1:10560
J	On site	Ponds	1948	1:10560
J	On site	Ponds	1891	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
K	**On site**	**Colliery**	**1949**	**1:10560**
L	**On site**	**Colliery**	**1951**	**1:10560**
K	8m NW	Colliery	1983	1:10000
2	25m N	Refuse Heap	1948	1:10560
3	30m N	Refuse Heap	1951	1:10560
M	30m SE	Canal	1908	1:10560
M	31m SE	Canal	1885	1:10560
M	31m SE	Canal	1904	1:10560
M	31m SE	Canal	1948	1:10560
N	61m NW	Pond	1969	1:10560
4	76m N	Refuse Heap	1949	1:10560
O	83m N	Cooling Ponds	1949	1:10560
P	86m SW	Canal	1966	1:10560
P	86m SW	Canal	1974	1:10000
P	86m SW	Canal	1982	1:10000
P	86m SW	Canal	1955	1:10560
O	86m N	Cooling Ponds	1930	1:10560
O	86m N	Cooling Ponds	1930	1:10560
O	88m N	Cooling Ponds	1951	1:10560
N	95m NW	Unspecified Pit	1951	1:10560
5	144m SW	Cuttings	1955	1:10560
N	147m NW	Unspecified Pit	1949	1:10560
6	163m SW	Water Body	1955	1:10560
Q	166m N	Refuse Heap	1930	1:10560
Q	166m N	Refuse Heap	1930	1:10560
9	212m NW	Unspecified Heap	1967	1:10560
R	212m N	Water Body	1908	1:10560
R	215m N	Pond	1951	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
S	220m N	Refuse Heap	1930	1:10560
S	220m N	Refuse Heap	1930	1:10560
10	225m NW	Brick Works	1951	1:10560
T	249m NW	Brick Works	1949	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	**5**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 213**

ID	Location	Land Use	Year of mapping	Mapping scale
K	**On site**	**Colliery**	**1949**	**1:10560**
L	**On site**	**Colliery**	**1951**	**1:10560**
L	**On site**	**Unspecified Mine**	**1969**	**1:10560**
K	8m NW	Colliery	1983	1:10000
13	342m N	Unspecified Shaft	1904	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**1**

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 213**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
1	**On site**	**Peat Moss Litter Works**	**Peat**	**Surface mineral working**	**Application**	**Not available**

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 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.

18.8 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.

18.9 Coal mining

Records on site	1

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

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

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

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

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

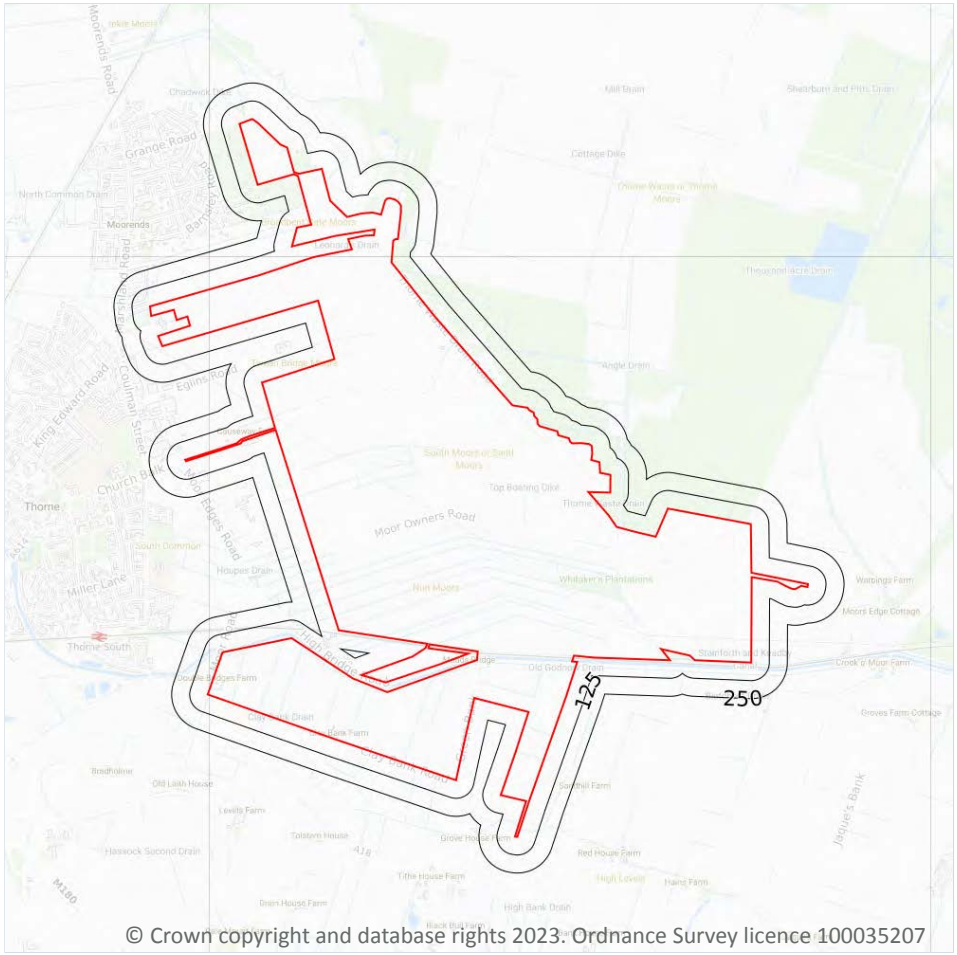
18.13 Clay mining

Records on site	0

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

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

19 Radon



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Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site	1

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 220**

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.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	**194**

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**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	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	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
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	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	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	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 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	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	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	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

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**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**20 - 40 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
1m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
1m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
1m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
1m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
1m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
3m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
5m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
8m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
11m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
11m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
17m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
19m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
21m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
23m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
29m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
30m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
31m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
38m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
44m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
44m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
44m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
45m SE	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.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	**0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

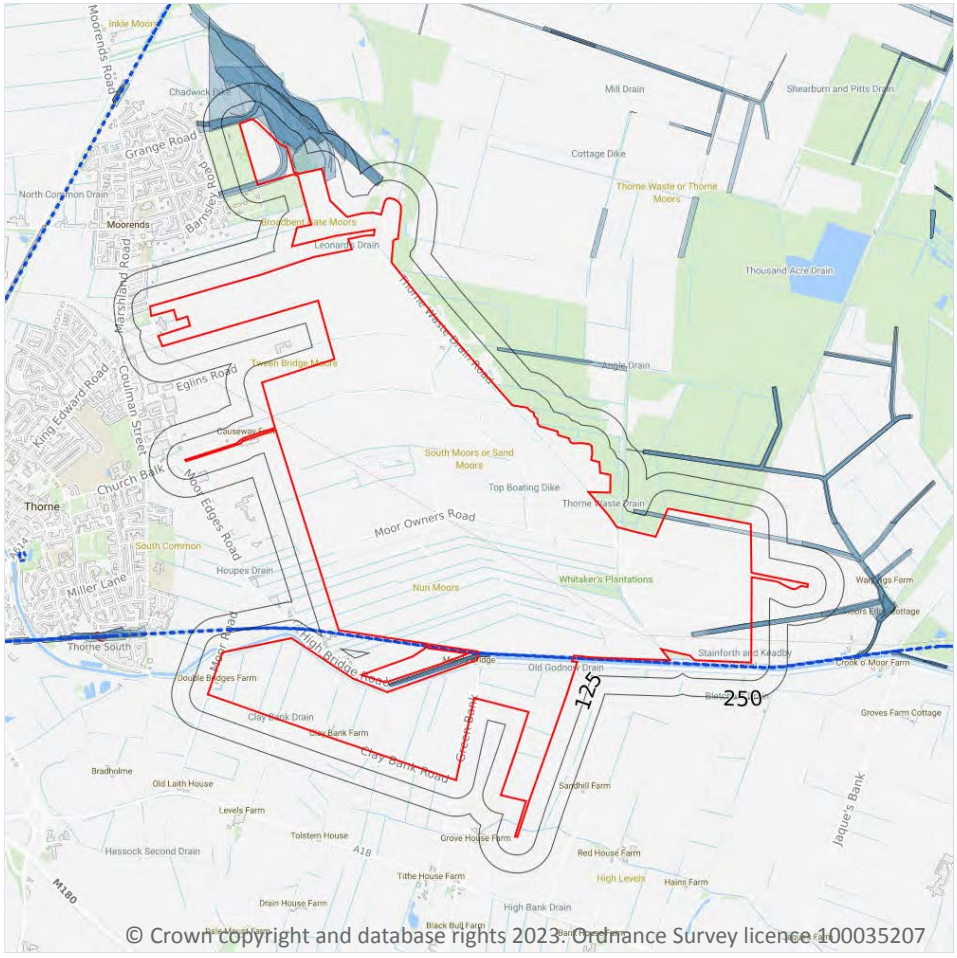
20.3 BGS Measured Urban Soil Chemistry

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	33

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

Features are displayed on the Railway infrastructure and projects map on **page 230**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1961**	**2500**
On site	**Mineral Railway Sidings**	**1969**	**10560**
On site	**Mineral Railway Sidings**	**1949**	**10560**
On site	**Railway Sidings**	**1968**	**10000**
On site	**Railway Sidings**	**1948**	**10560**
On site	**Railway Sidings**	**1908**	**10560**
On site	**Tramway Sidings**	**1906**	**10560**
On site	**Tramway Sidings**	**1948**	**10560**
On site	**Tramway Sidings**	**1908**	**10560**
On site	**Tramway Sidings**	**1930**	**10560**
On site	**Railway Sidings**	**1955**	**10560**
On site	**Railway Sidings**	**1891**	**10560**
11m NW	Mineral Railway Sidings	1930	10560
17m NW	Tramway Sidings	1951	10560
19m NW	Mineral Railway Sidings	1961	2500
45m N	Mineral Railway Sidings	1961	2500
111m N	Railway Sidings	1948	10560

Location	Land Use	Year of mapping	Mapping scale
112m NW	Railway Sidings	1961	2500
112m N	Mineral Railway Sidings	1951	10560
139m NW	Railway Sidings	1961	2500
165m N	Railway Sidings	1961	2500
172m N	Tramway Sidings	1955	10560
174m N	Tramway Sidings	1968	10000
196m N	Railway Sidings	1983	10000
198m E	Tramway Sidings	1891	10560
202m N	Mineral Railway Sidings	1961	2500
206m E	Tramway Sidings	1891	2500
207m N	Railway Sidings	1985	2500
209m N	Railway Sidings	1985	2500
209m NW	Railway Sidings	1951	10560
211m NW	Railway Sidings	1961	2500
231m N	Railway Sidings	1961	2500
248m E	Tramway Sidings	1891	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	21

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

Features are displayed on the Railway infrastructure and projects map on **page 230**

Location	Name	Type
On site	**South Humberside Main Line**	**rail**
On site	**South Humberside Main Line**	**rail**
On site	**South Humberside Main Line**	**rail**
On site	**South Humberside Main Line**	**rail**
On site	**South Humberside Main Line**	**rail**
On site	**South Humberside Main Line**	**rail**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
19m SE	Not given	Multi Track
28m SE	Not given	Multi Track
28m SE	Not given	Multi Track
64m SW	Not given	Multi Track
66m SW	South Humberside Main Line	rail
69m SW	South Humberside Main Line	rail
78m SW	South Humberside Main Line	rail
79m SW	South Humberside Main Line	rail

Location	Name	Type
145m SW	Not given	Multi Track
149m SW	Not given	Multi Track
212m SE	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	**0**

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	**0**

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	**0**

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

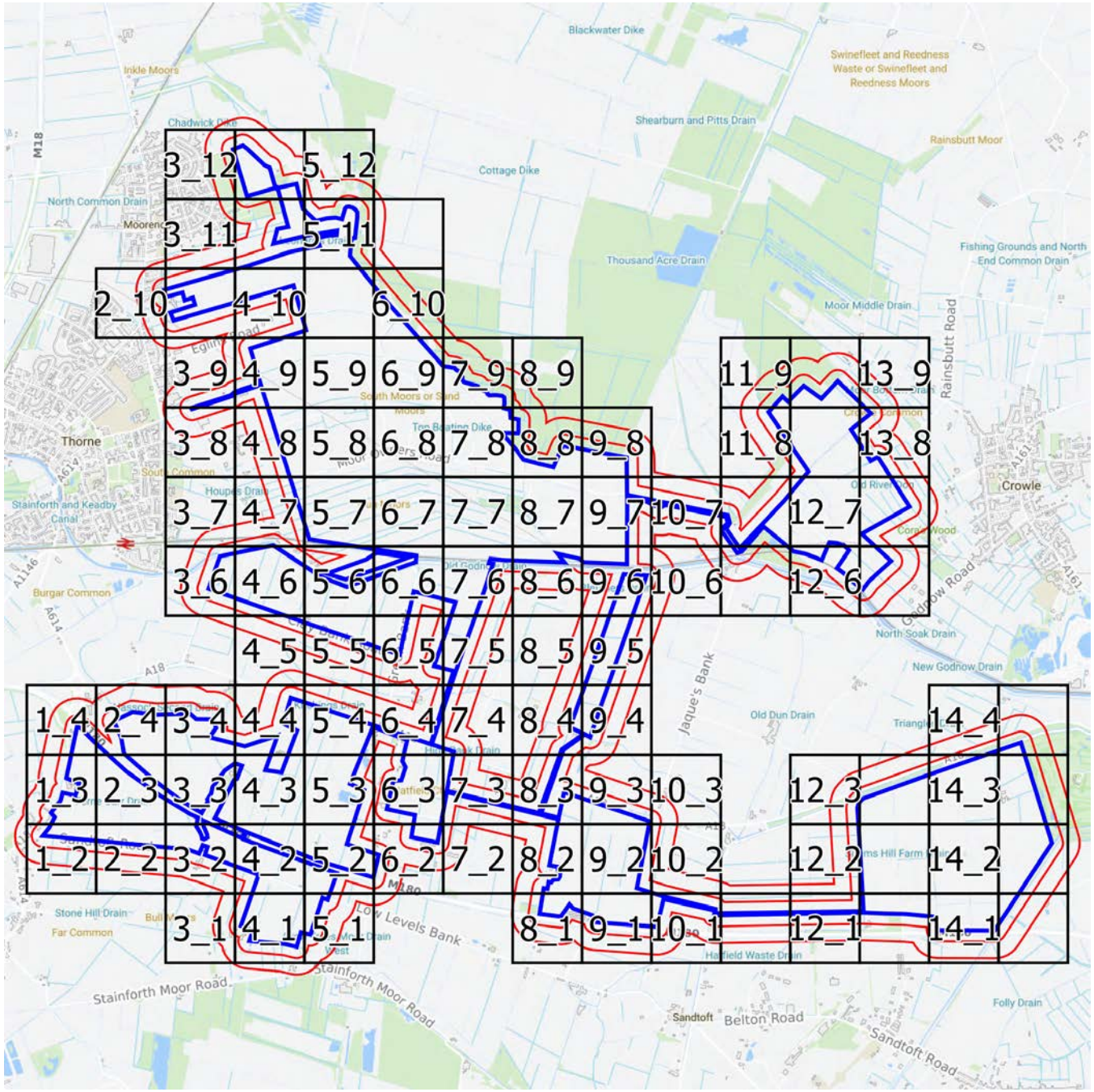
This data is sourced from HS2 ltd.

Data providers

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

Terms and conditions

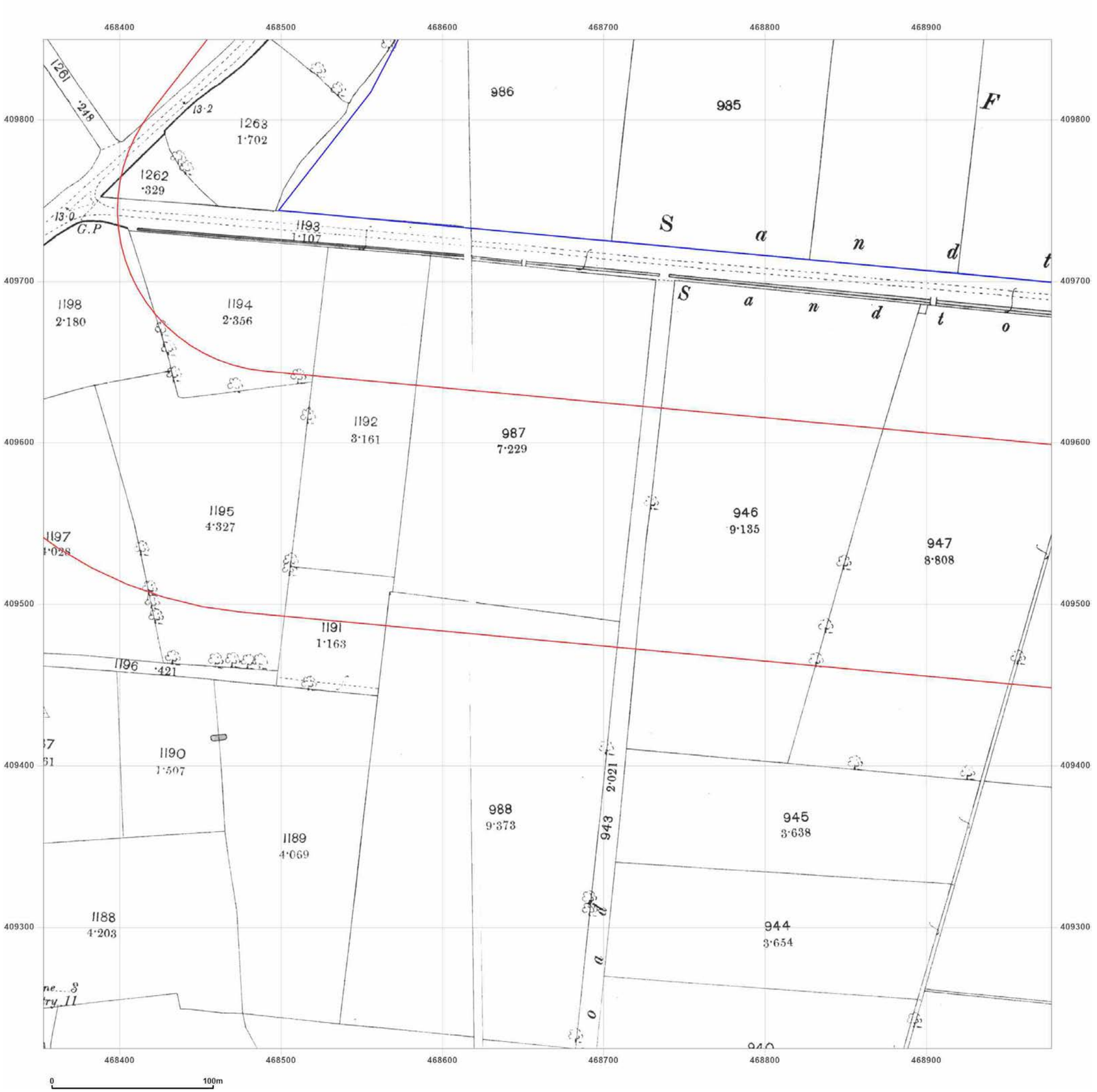
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1:2,500 Scale Grid Index

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Groundsure INSIGHTS

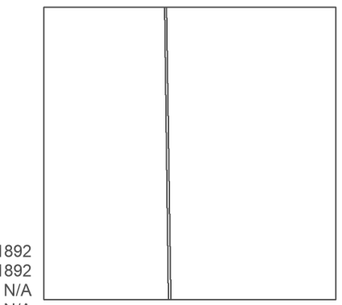
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Report Ref: GSIP-2023-13386-12979_LS_1_2
Grid Ref: 468665, 409537

Map Name: County Series
Map date: **1892**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

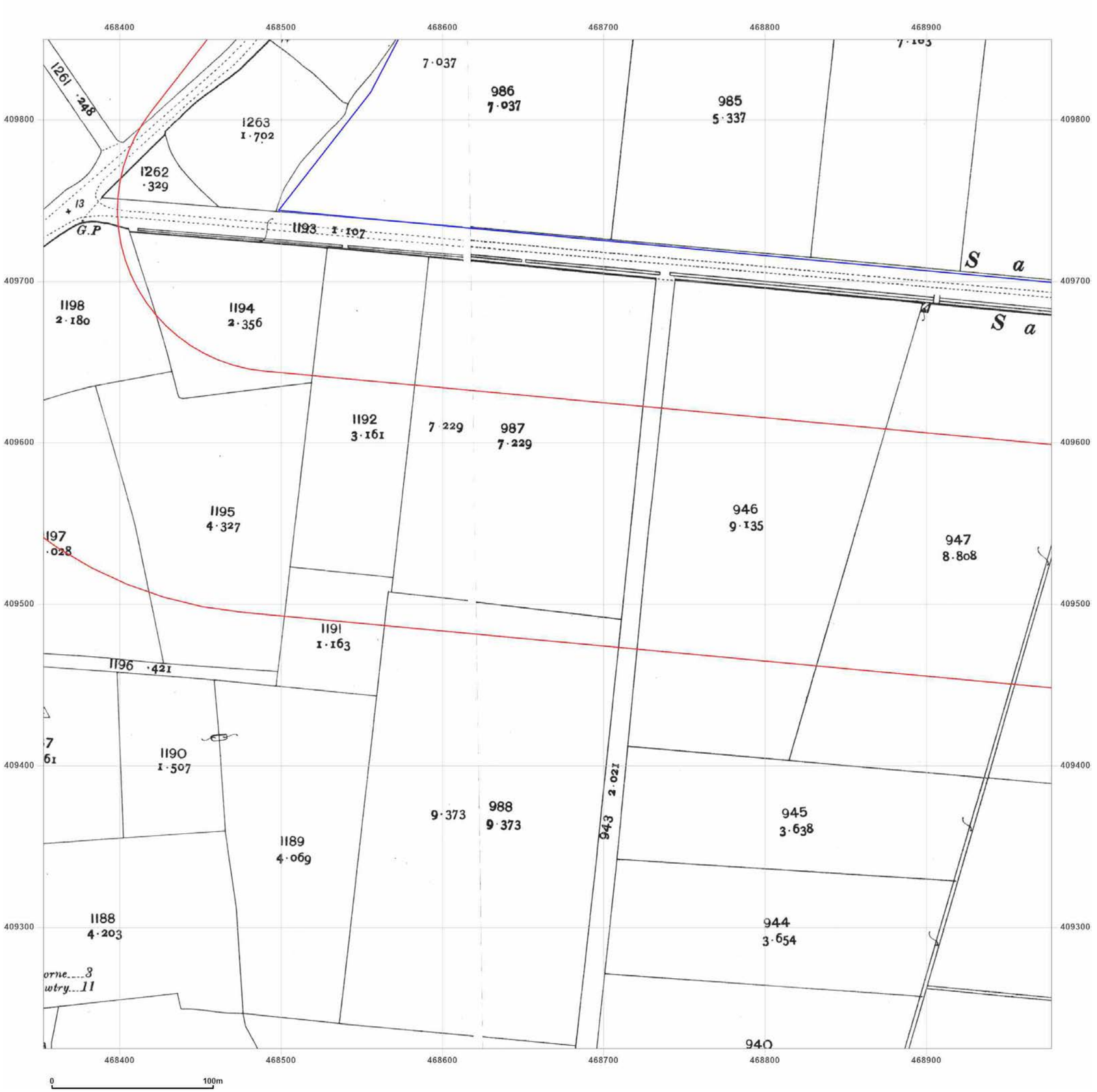
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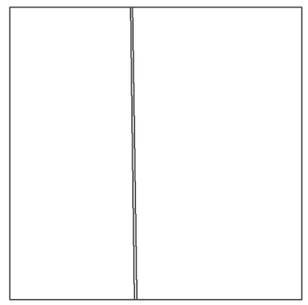
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Grid Ref: 468665, 409537

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

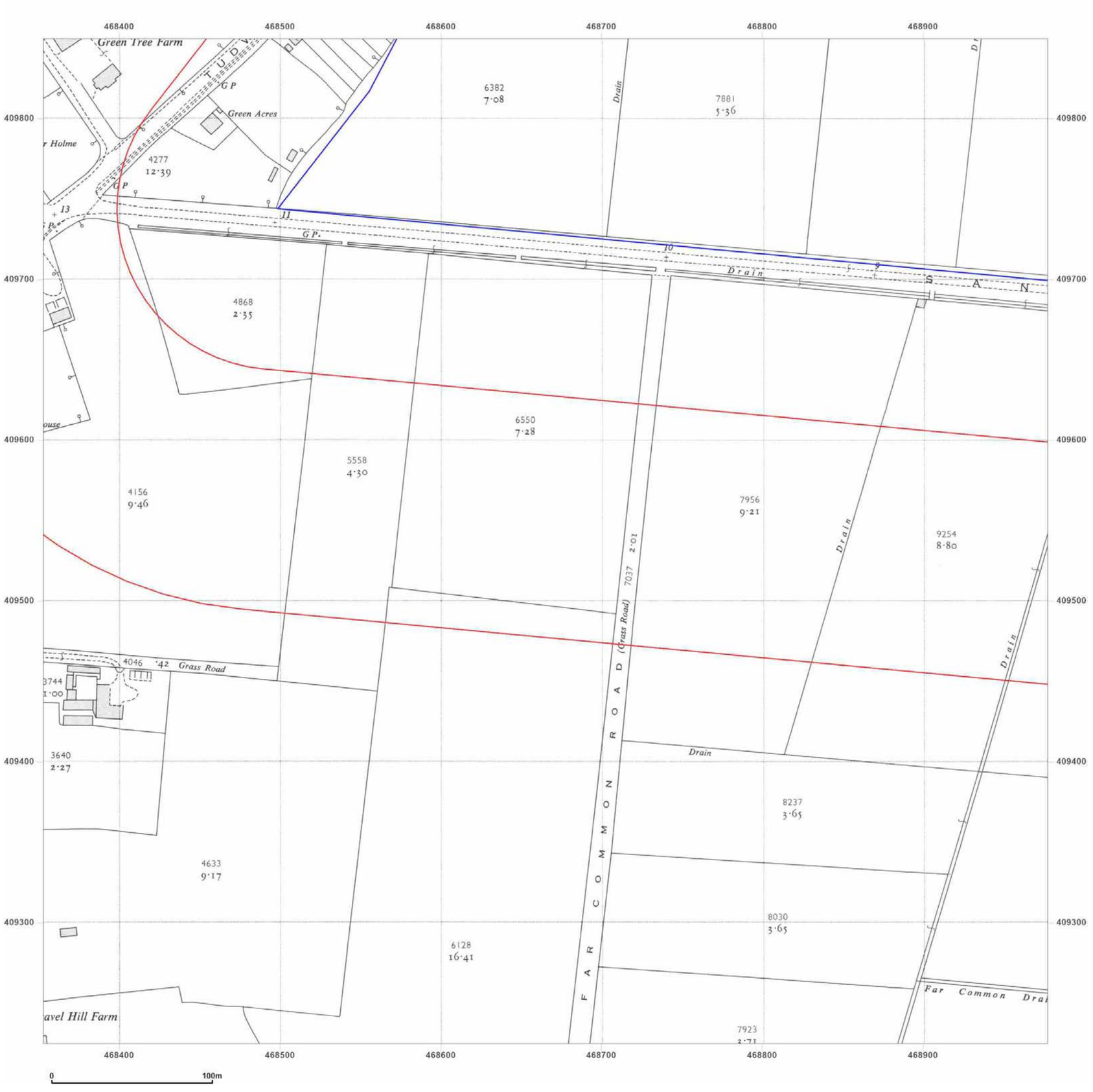
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_2
Grid Ref: 468665, 409537

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

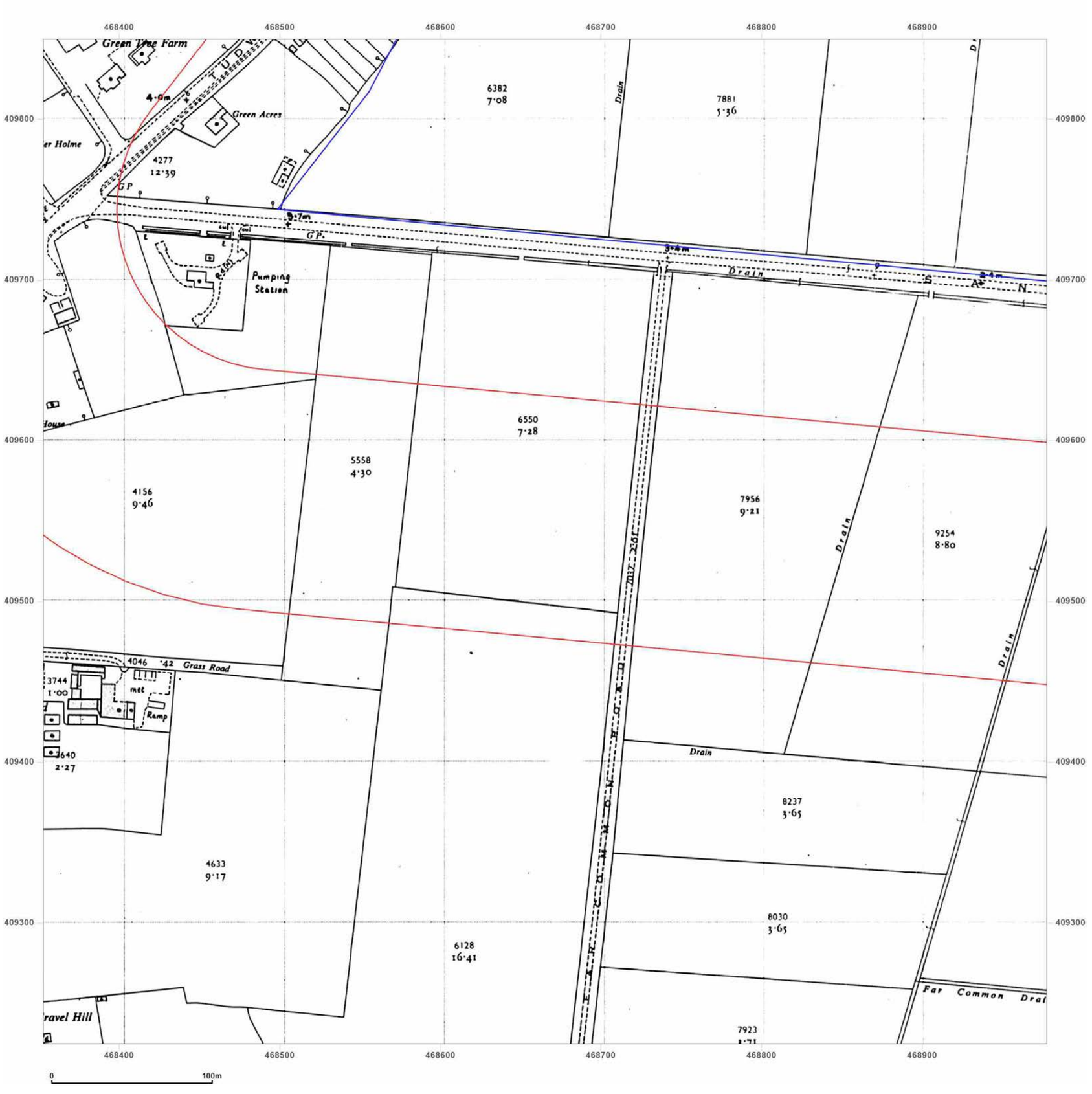
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Report Ref: GSIP-2023-13386-12979_LS_1_2
Grid Ref: 468665, 409537

Map Name: National Grid
Map date: **1964**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1964

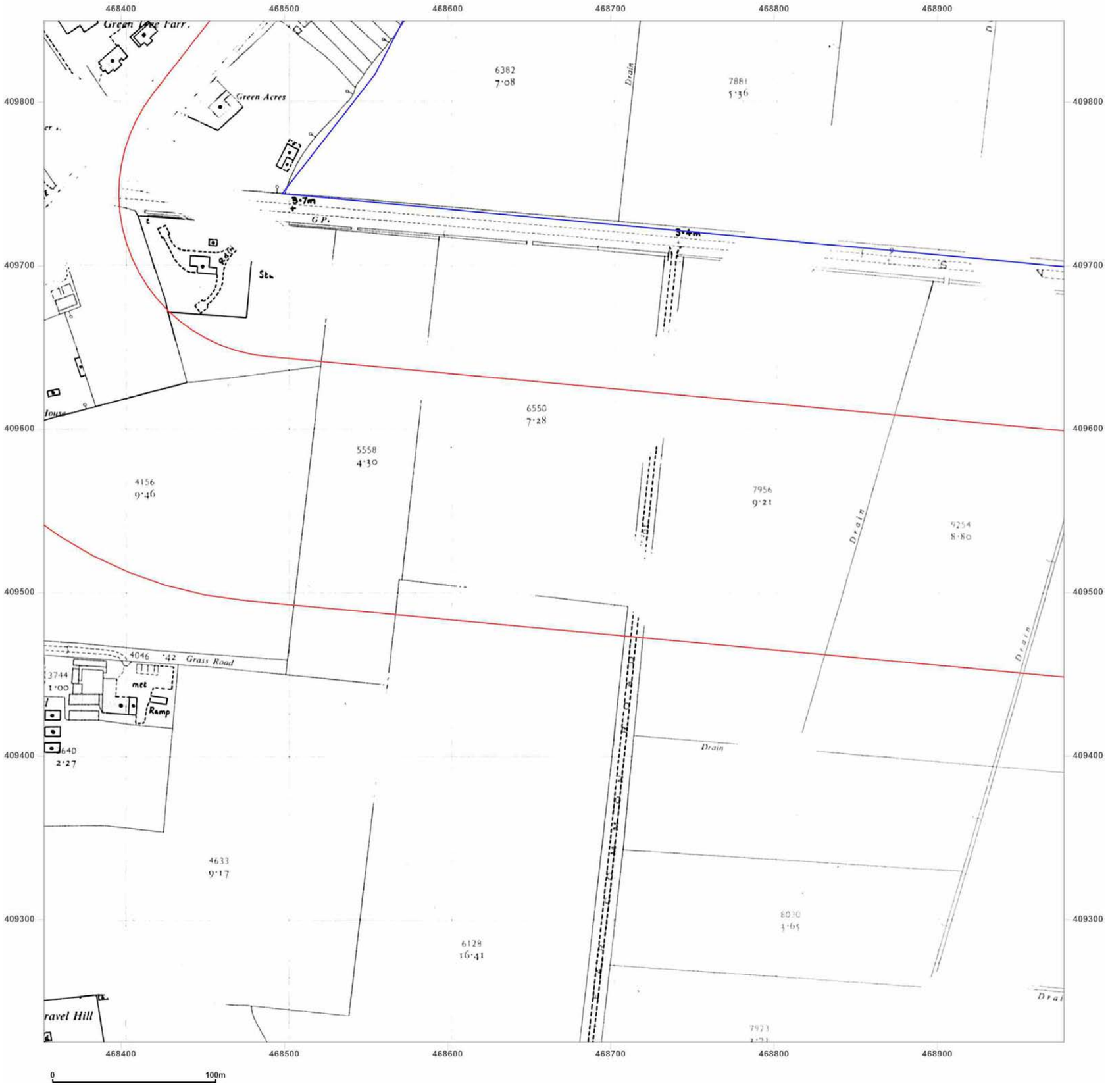
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Report Ref: GSIP-2023-13386-12979_LS_1_2
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Map date: **1964**

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Printed at: 1:2,500

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Revised N/A
Edition N/A
Copyright N/A
Levelled 1964

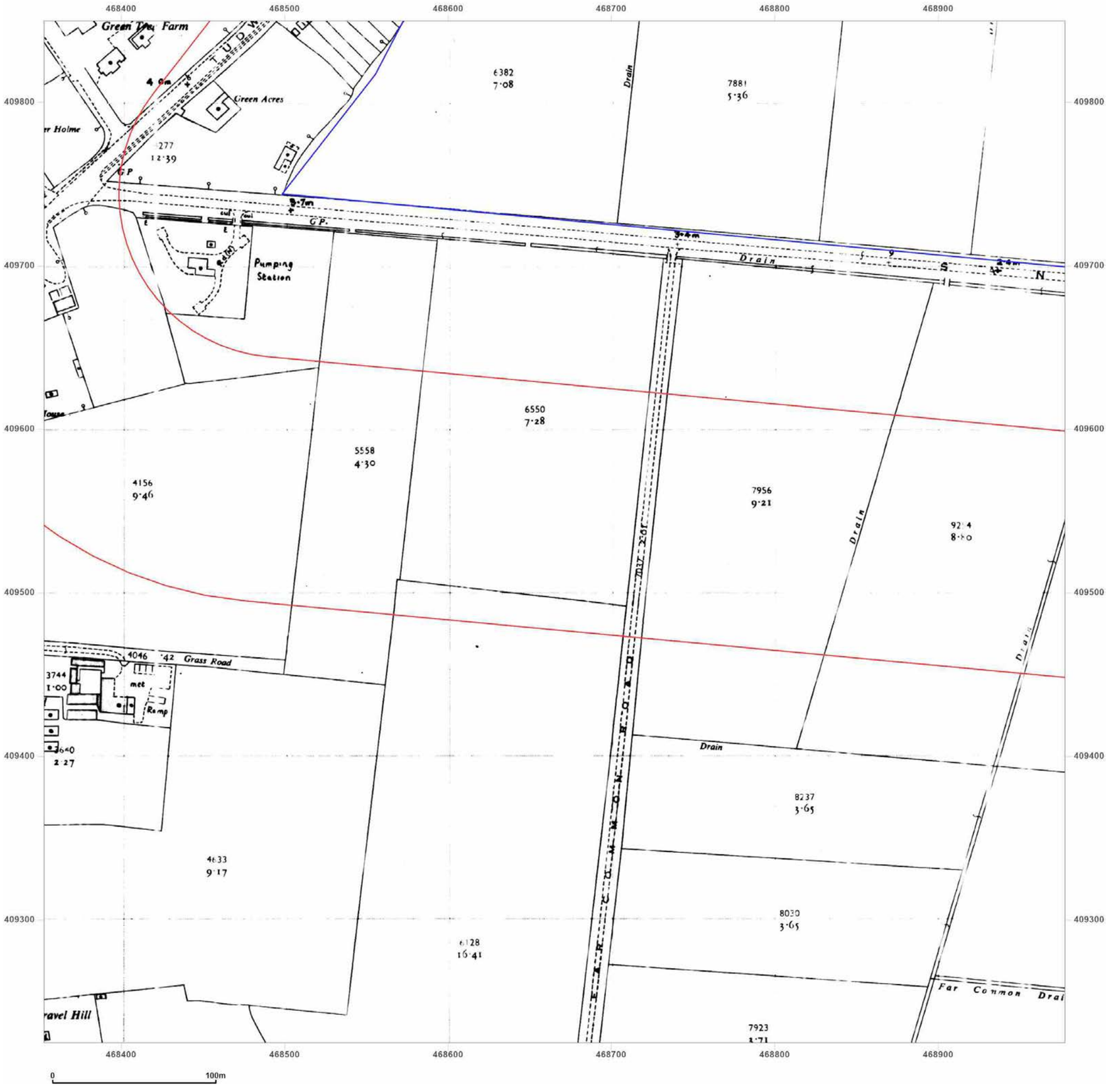
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_2
Grid Ref: 468665, 409537

Map Name: National Grid
Map date: **1979**
Scale: 1:2,500
Printed at: 1:2,500

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Revised N/A
Edition N/A
Copyright N/A
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Site Details:

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Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_2
Grid Ref: 468665, 409537

Map Name: National Grid

Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1984
Revised 1984
Edition N/A
Copyright 1985
Levelled 1964

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Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_2
Grid Ref: 468665, 409537

Map Name: National Grid
Map date: **1993**
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N
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

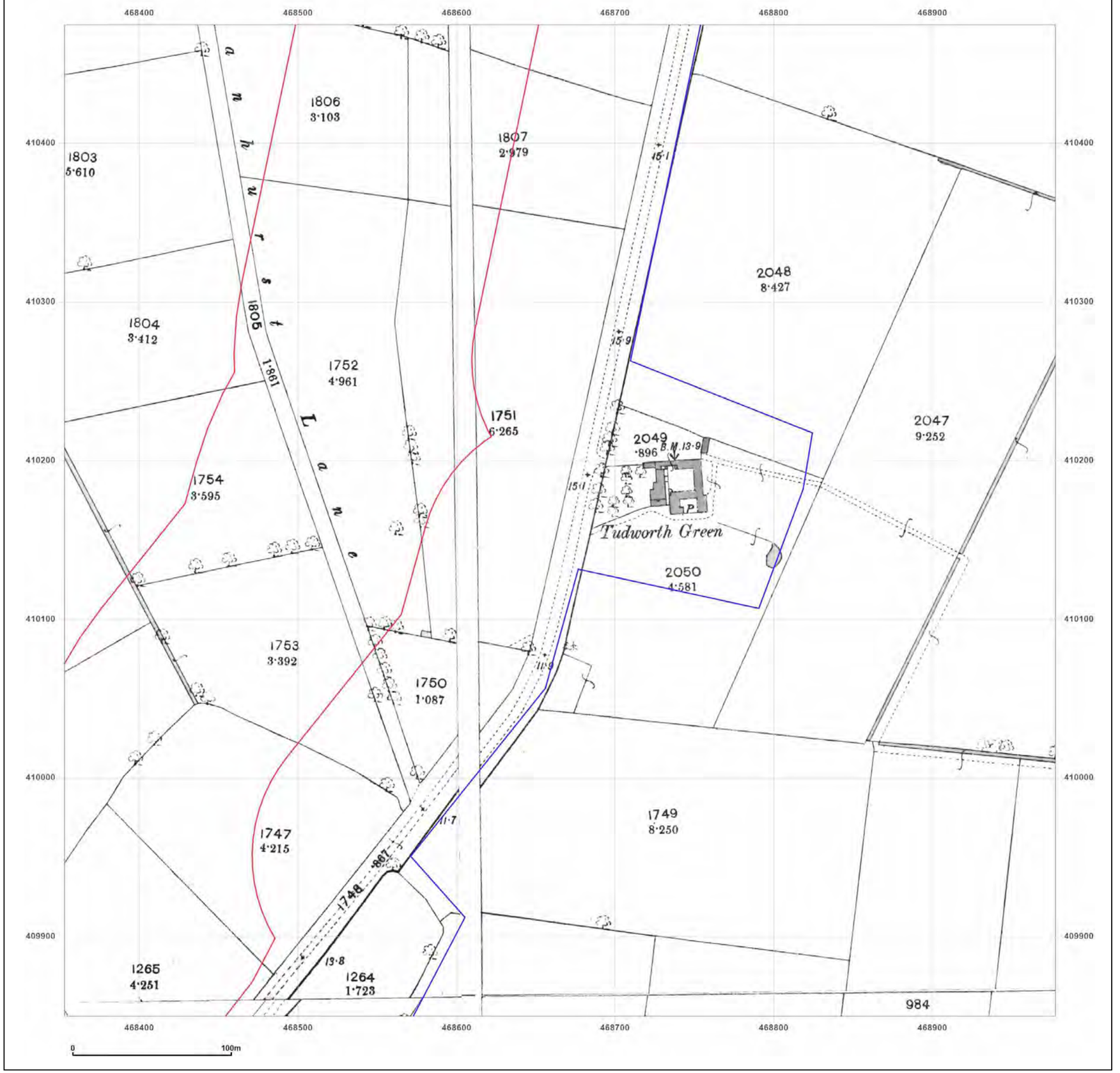
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Report Ref: GSIP-2023-13386-12979_LS_1_3
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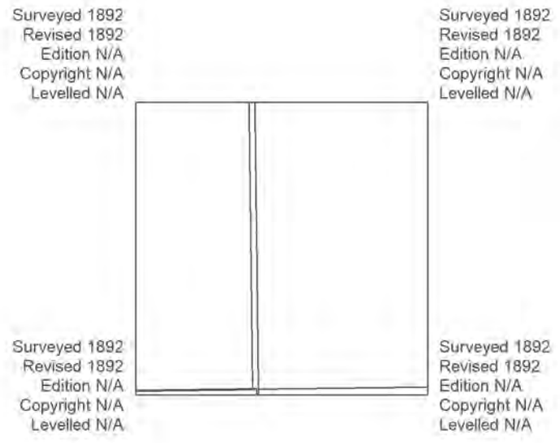
Map Name: County Series

Map date: 1892

Scale: 1:2,500

Printed at: 1:2,500

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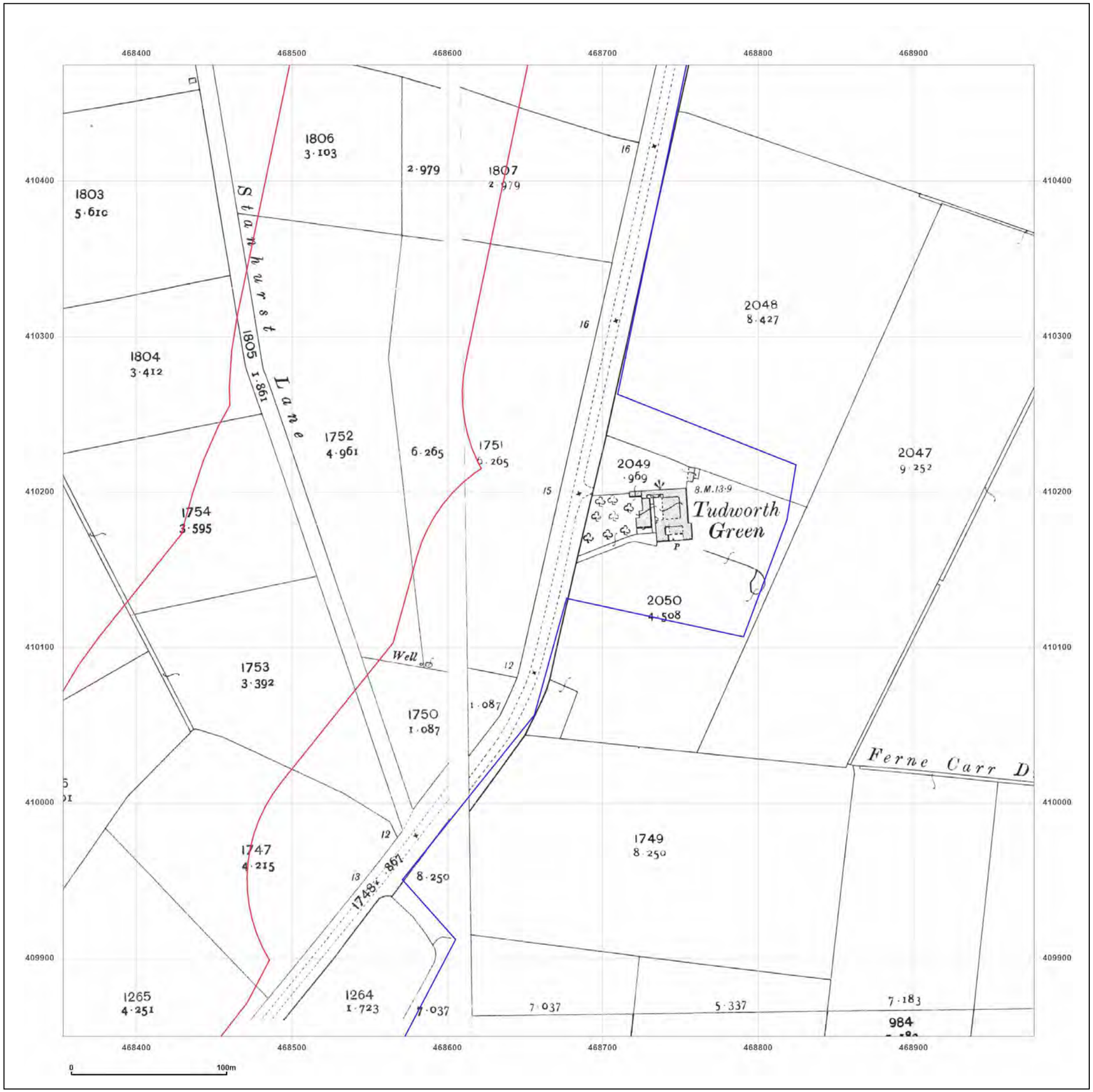
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Map Name: County Series

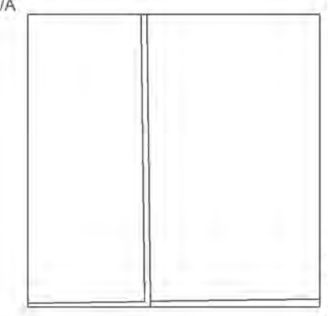
Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

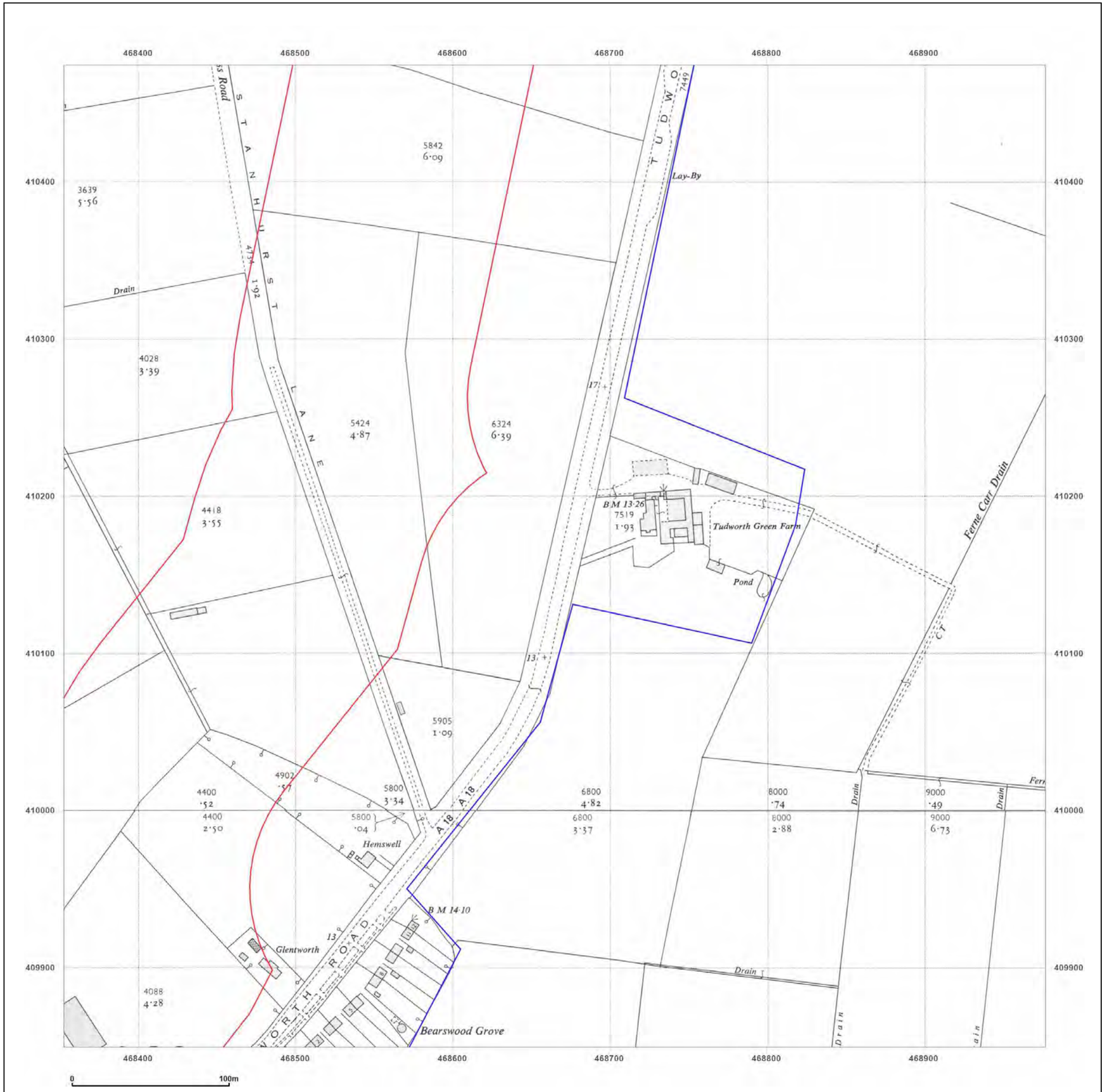
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Report Ref: GSIP-2023-13386-12979_LS_1_3
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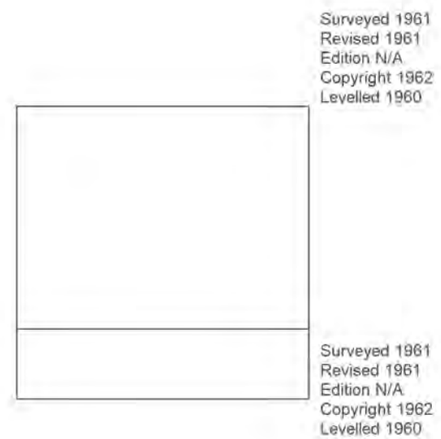
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

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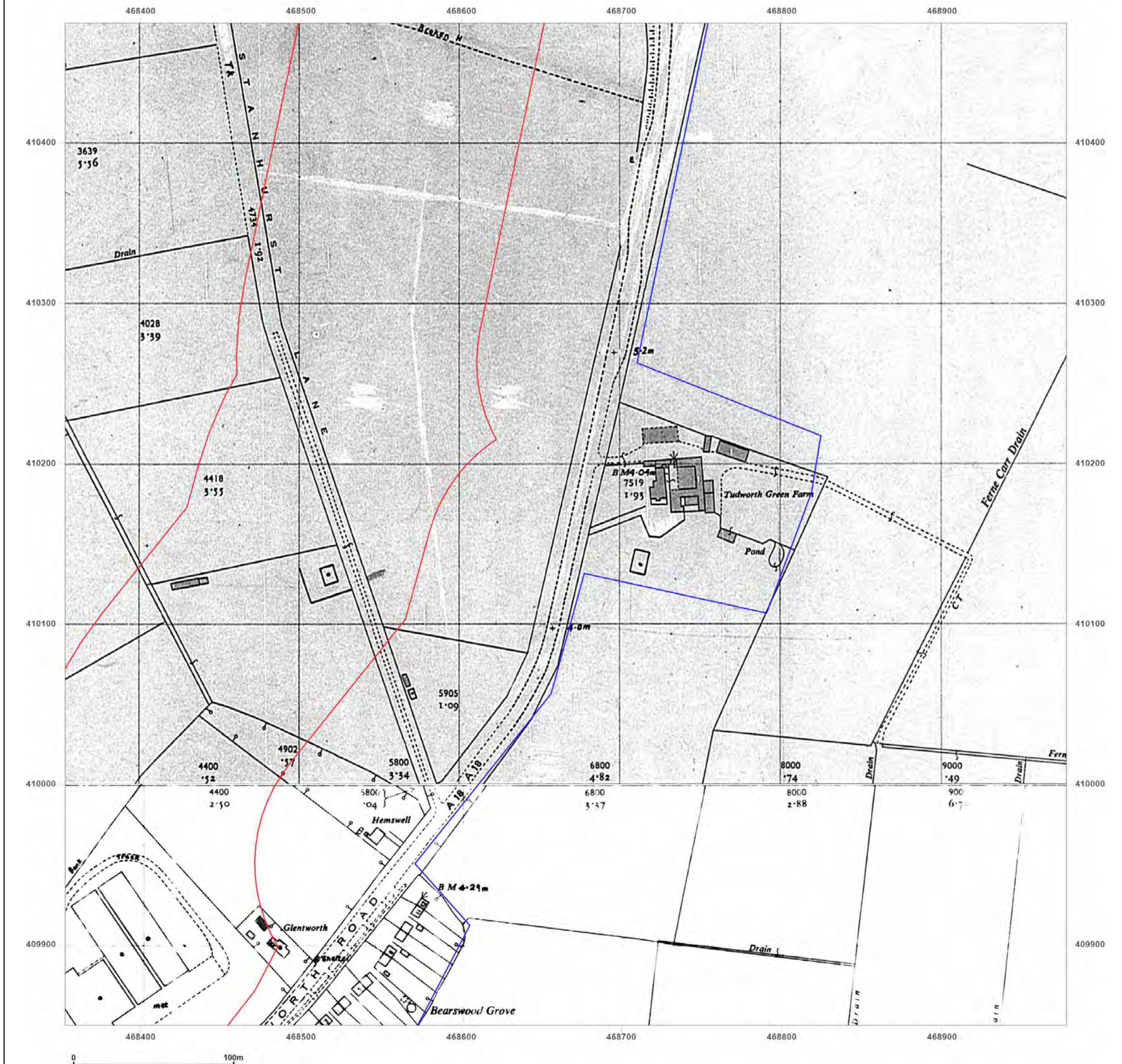
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Site Details:

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Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_3
Grid Ref: 468665, 410162

Map Name: National Grid

Map date: **1978-1979**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

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

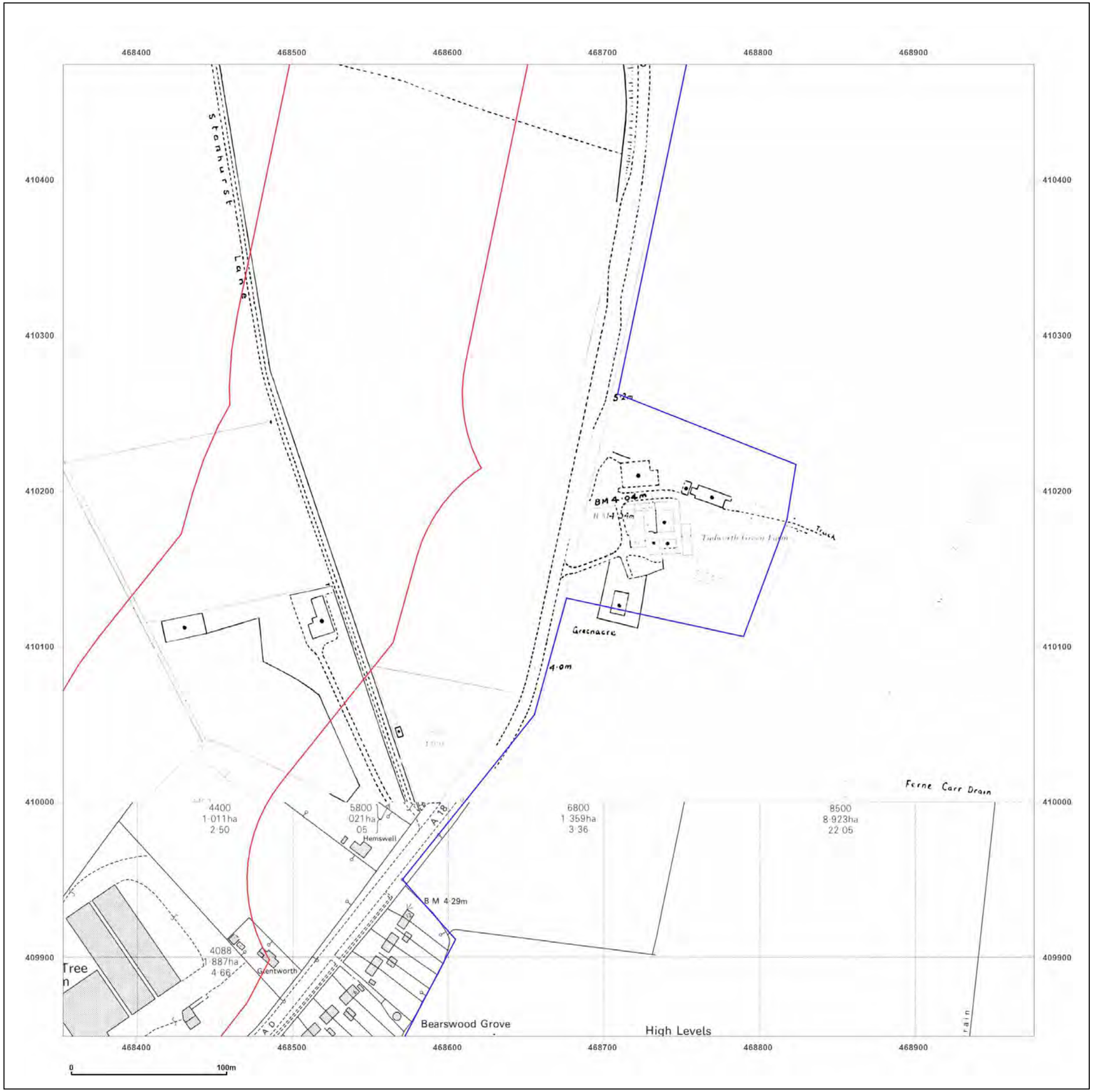
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Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_3
Grid Ref: 468665, 410162

Map Name: National Grid

Map date: **1984-1985**

Scale: 1:2,500

Printed at: 1:2,500

N
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Revised N/A
Edition N/A
Copyright 1984
Levelled 1954

Surveyed 1984
Revised 1984
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Copyright 1985
Levelled 1964

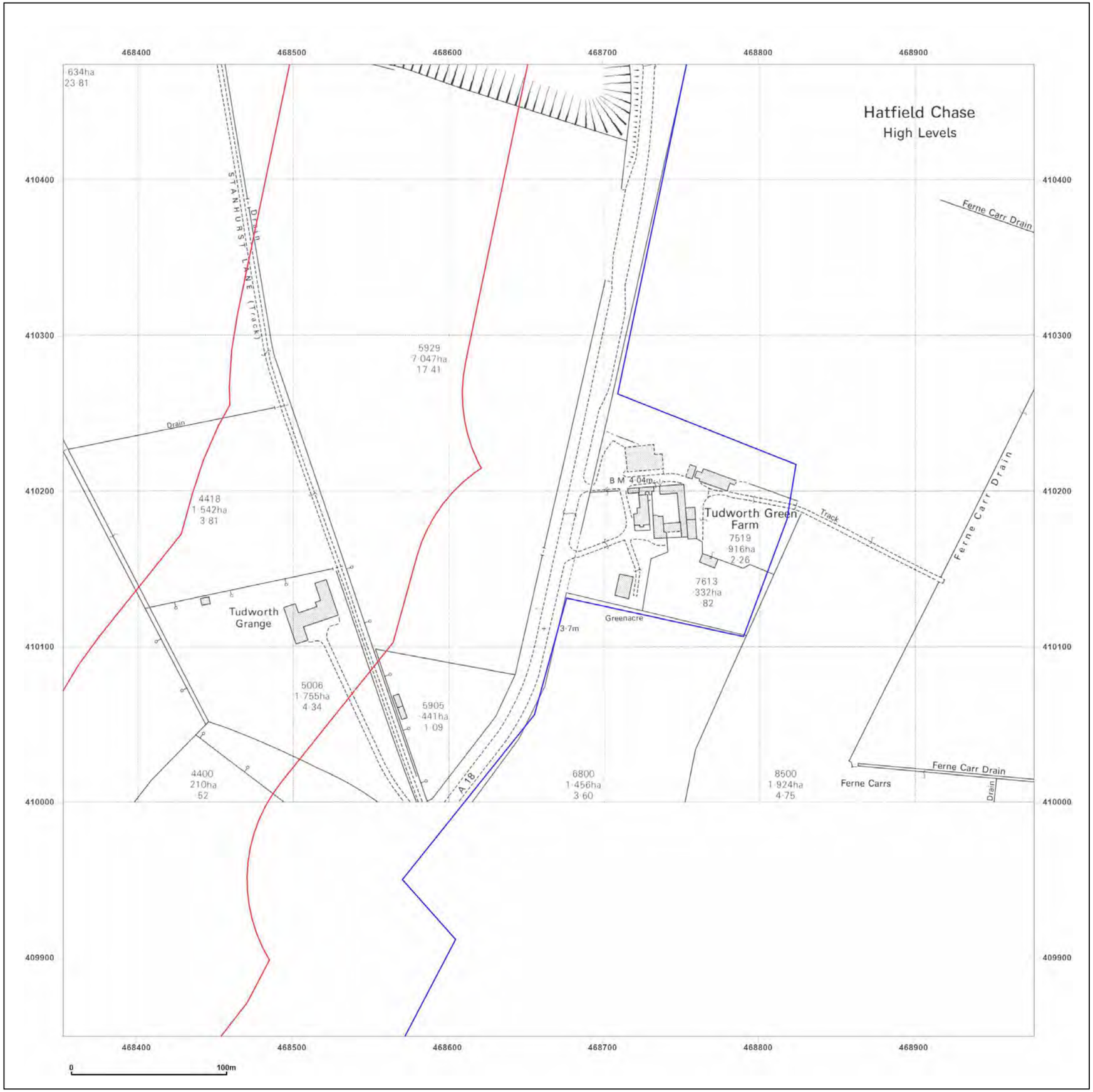
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Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_3
Grid Ref: 468665, 410162

Map Name: National Grid

Map date: **1986**

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Printed at: 1:2,500

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Surveyed 1985
Revised 1985
Edition N/A
Copyright 1986
Levelled 1964

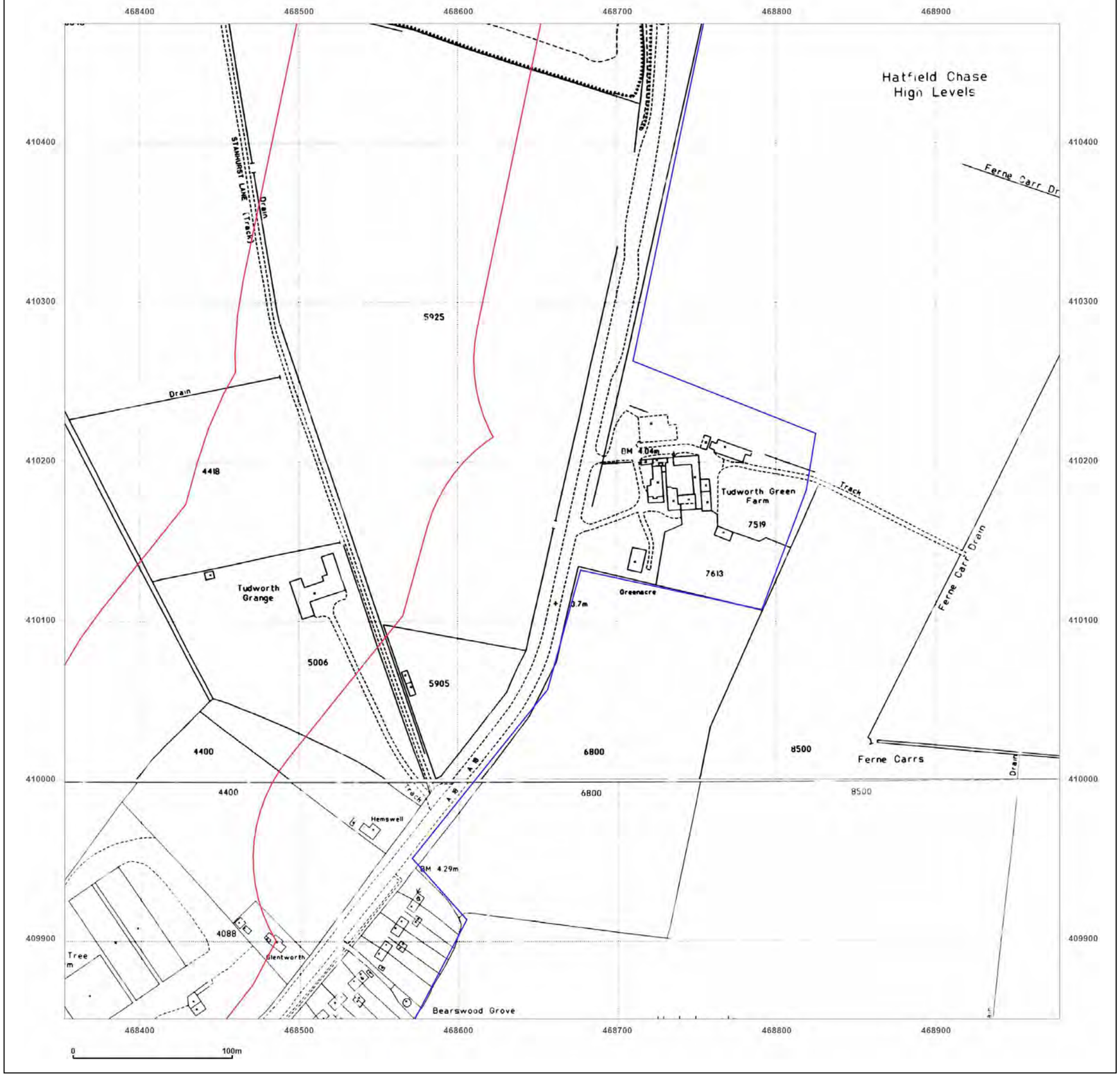
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_3
Grid Ref: 468665, 410162

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

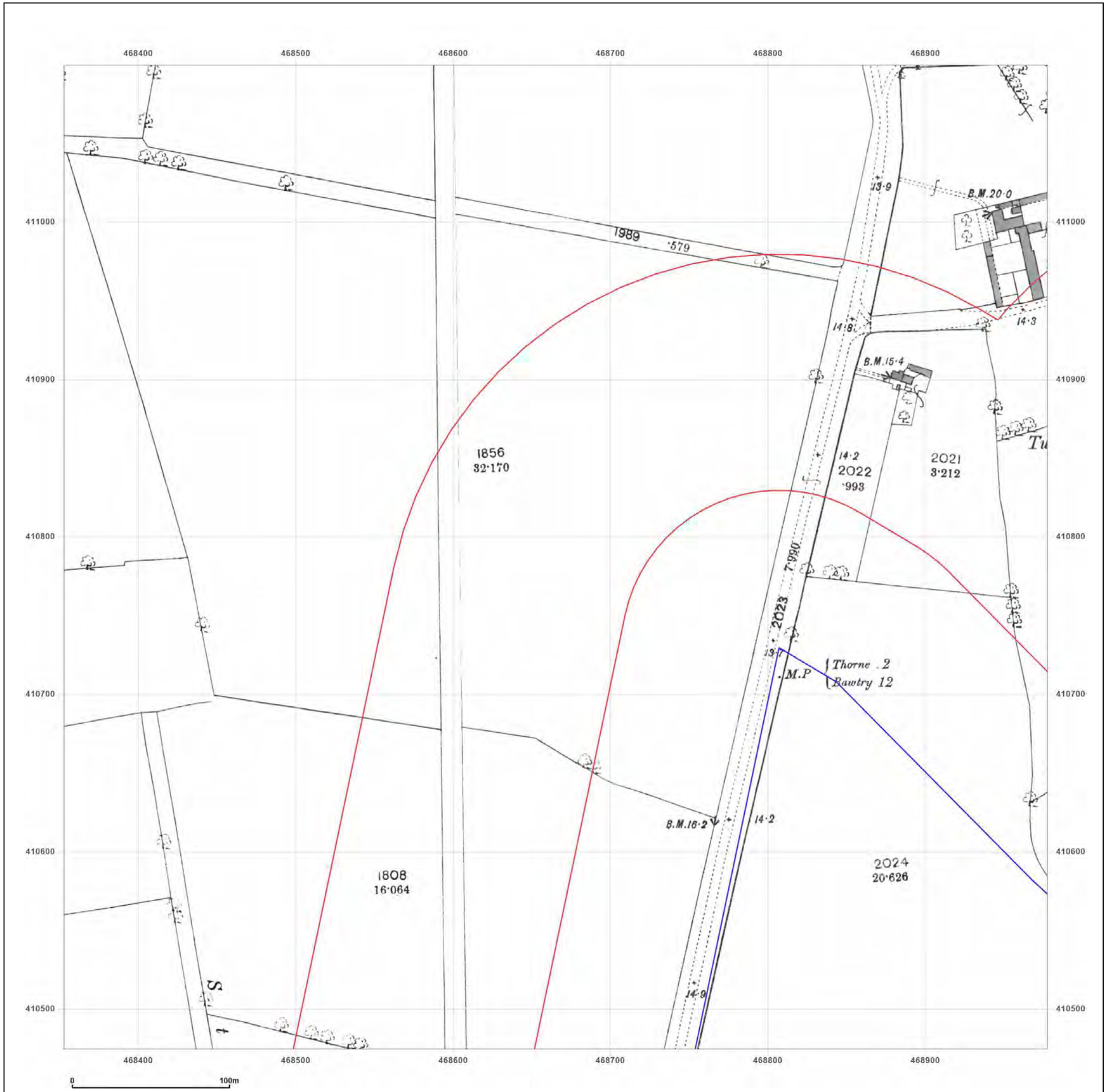
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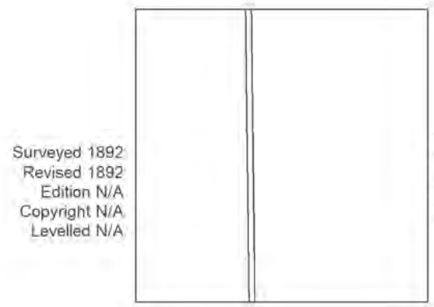
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Map Name: County Series
Map date: 1892
Scale: 1:2,500
Printed at: 1:2,500

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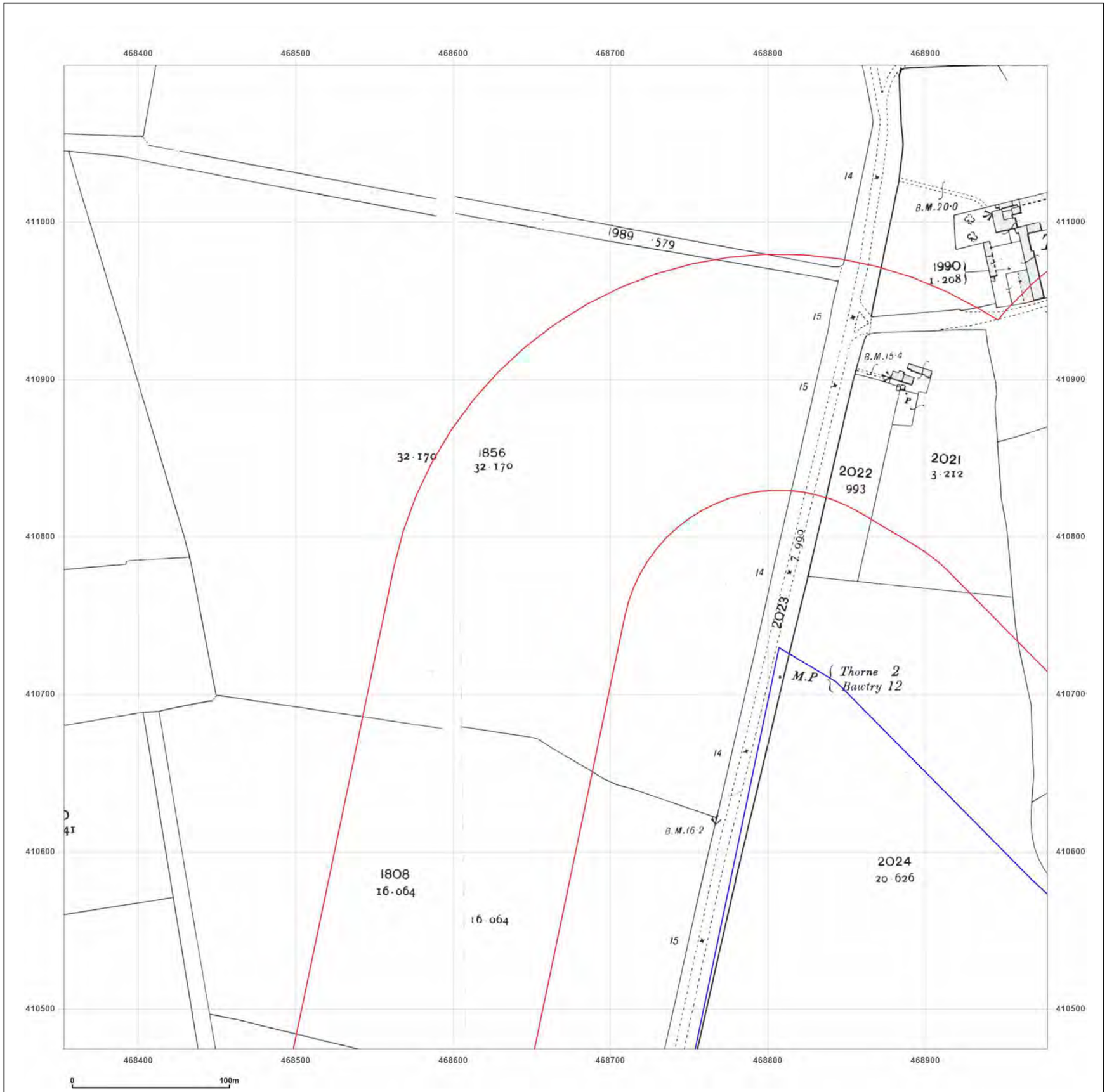
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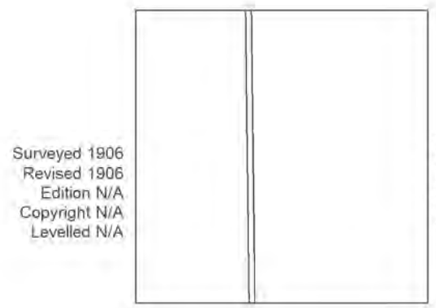
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Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_4
Grid Ref: 468665, 410787

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



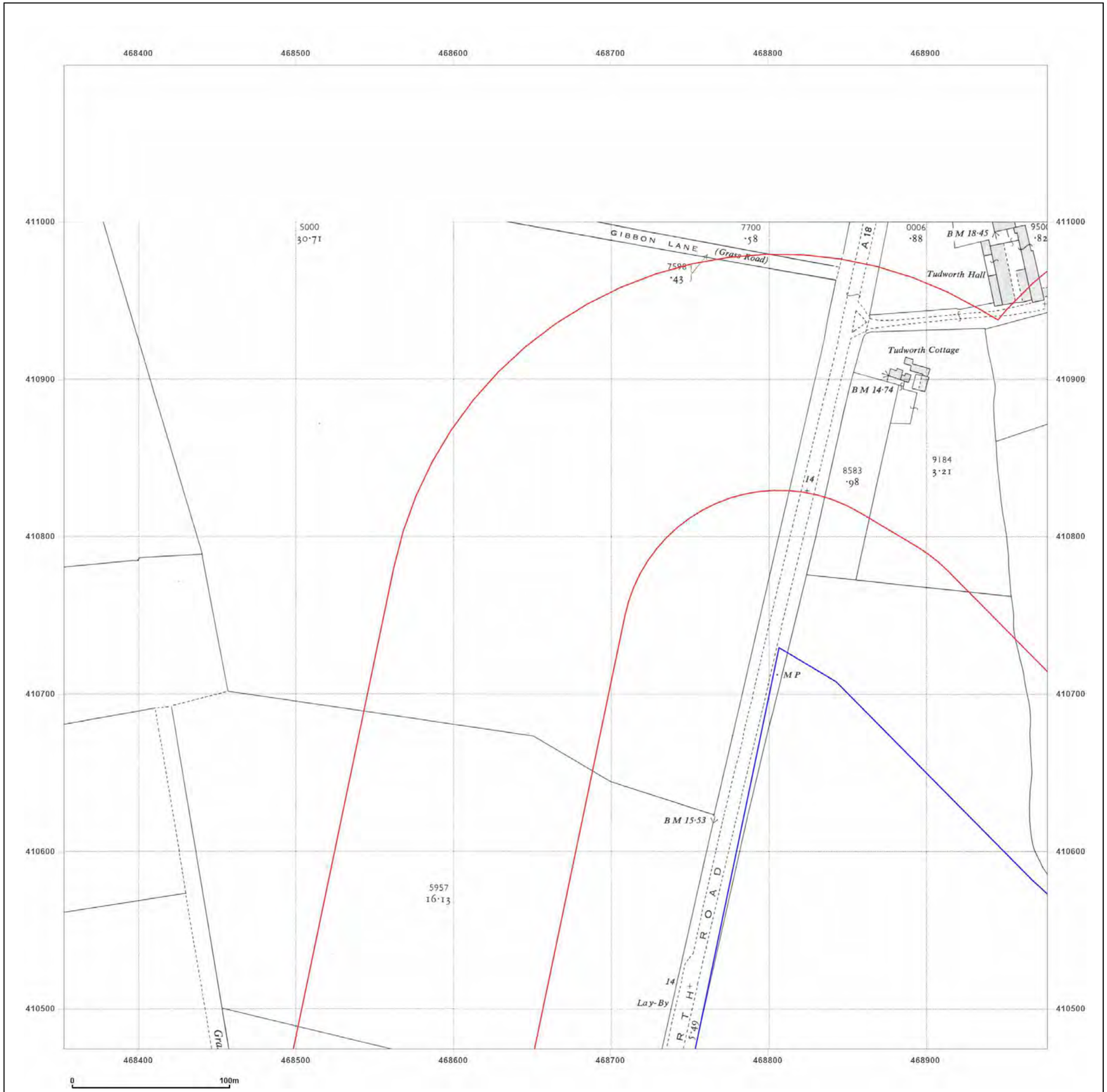
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_4
Grid Ref: 468665, 410787

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_4
Grid Ref: 468665, 410787

Map Name: National Grid

Map date: **1974-1978**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1973
Revised 1973
Edition N/A
Copyright 1974
Levelled 1964

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

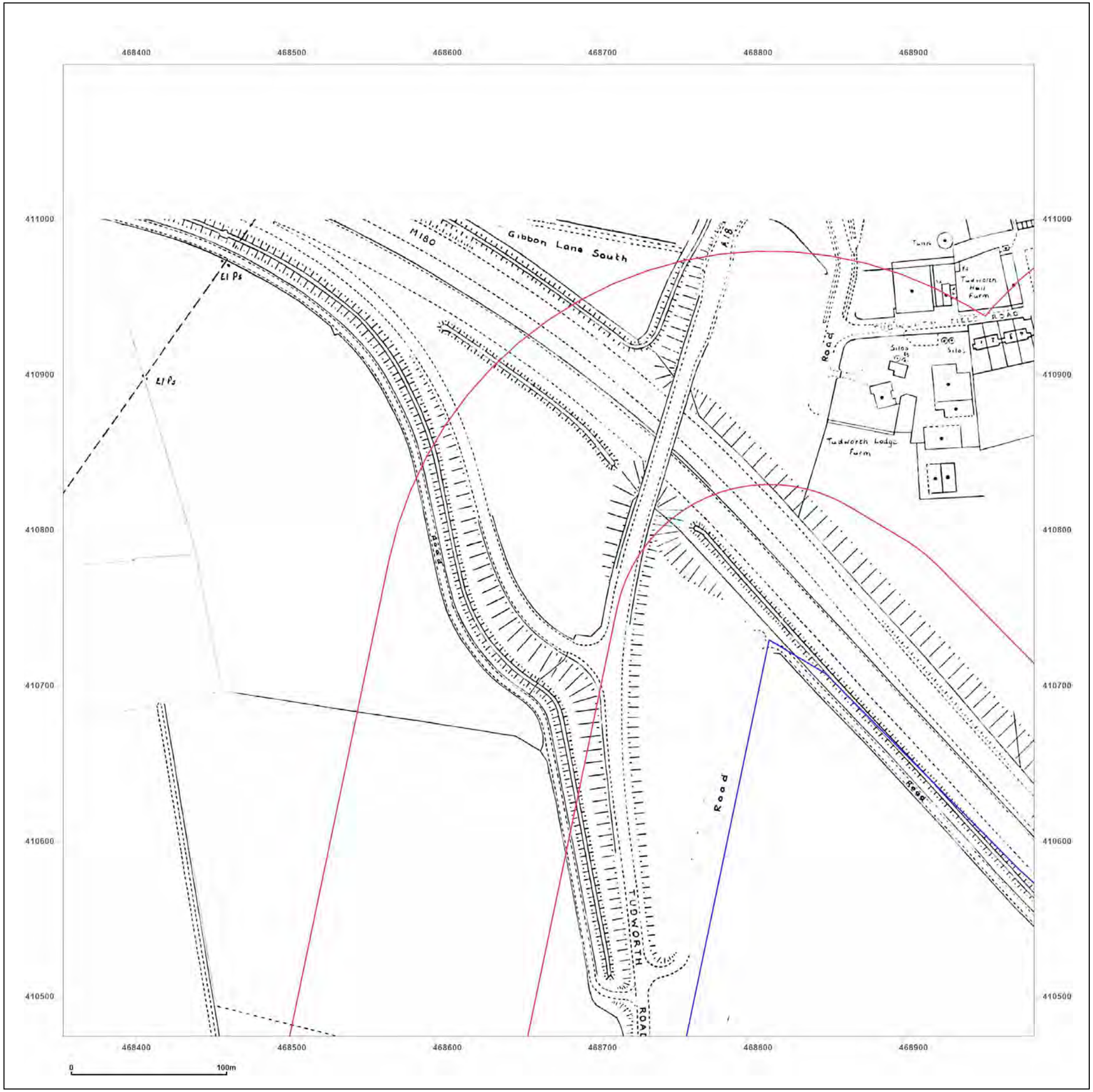
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_4
Grid Ref: 468665, 410787

Map Name: National Grid

Map date: **1984**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled 1954

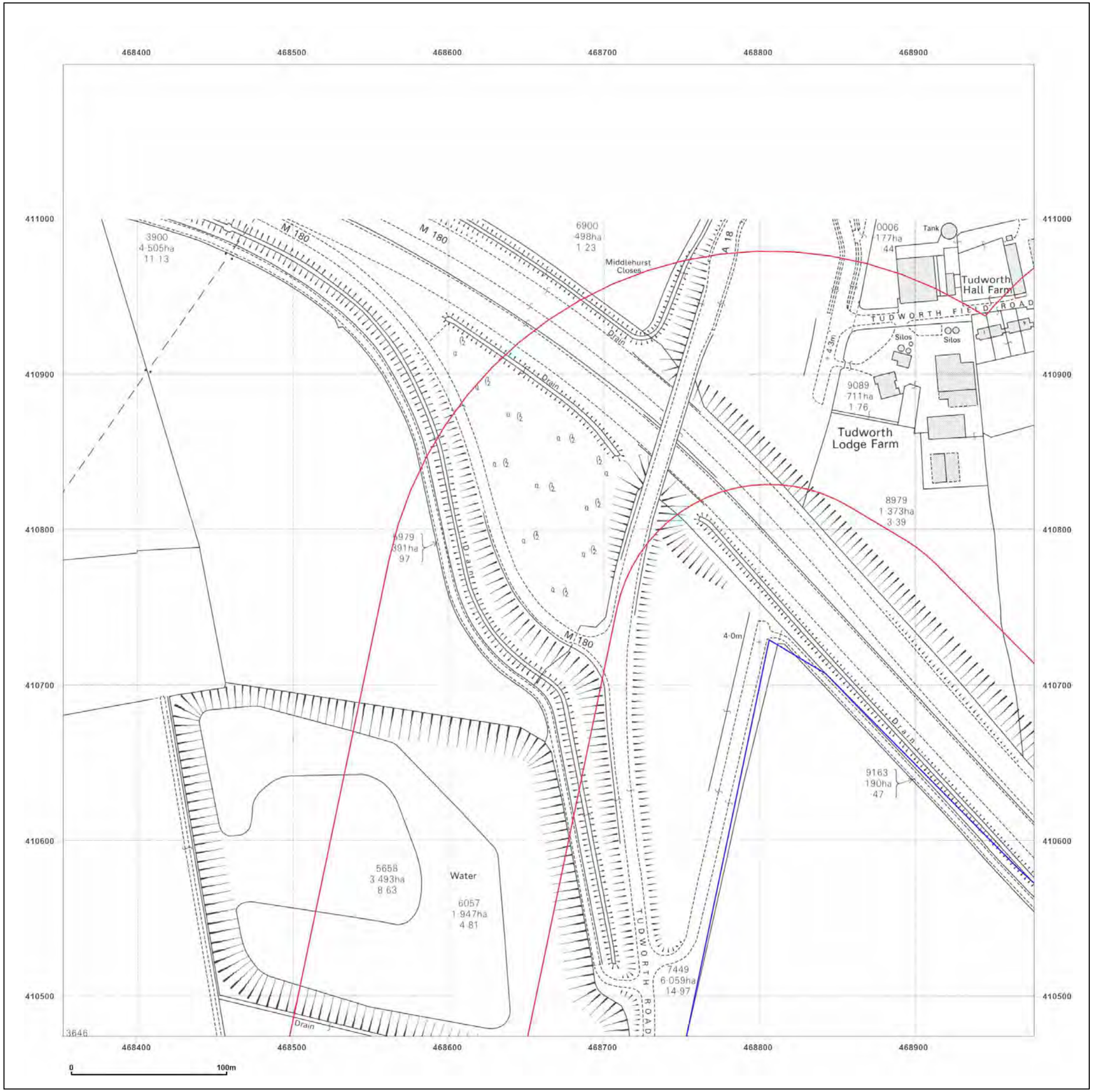
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_4
Grid Ref: 468665, 410787

Map Name: National Grid

Map date: **1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1985
Revised 1985
Edition N/A
Copyright 1986
Levelled 1964

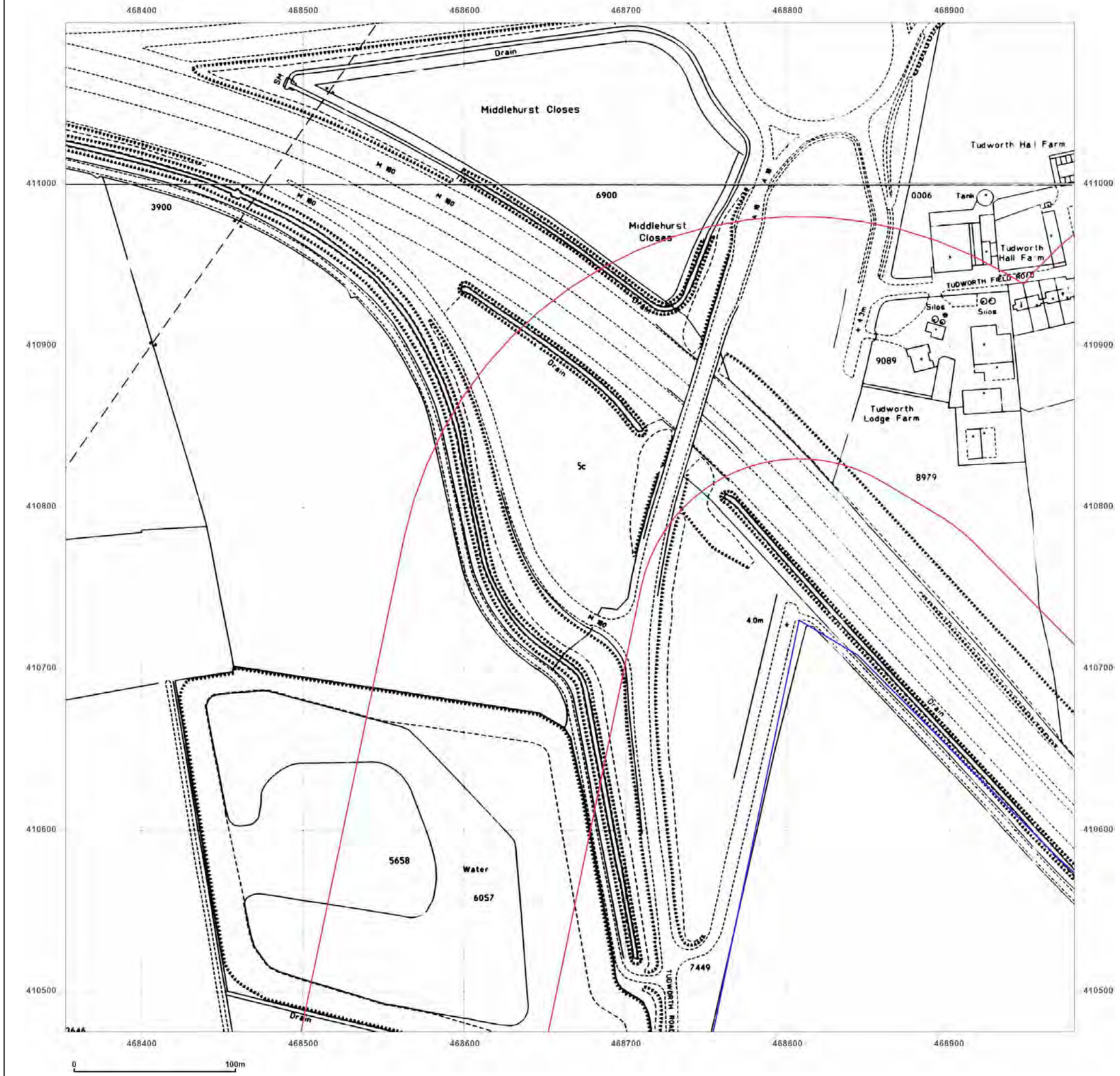
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_1_4
Grid Ref: 468665, 410787

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

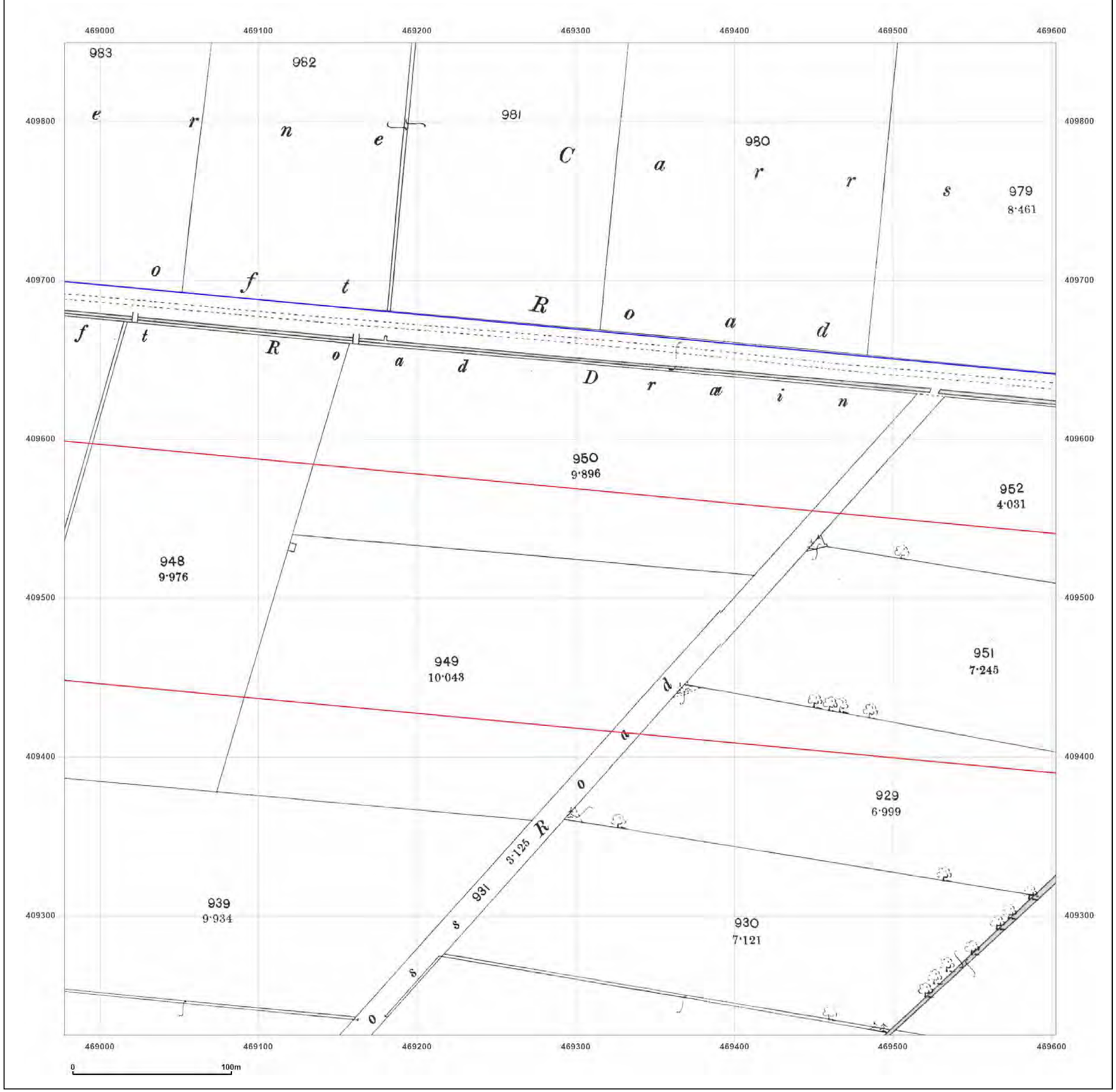
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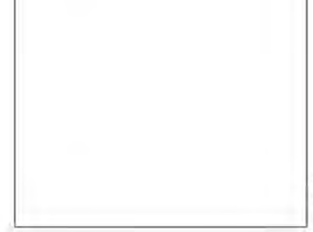
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_2
Grid Ref: 469290, 409537

Map Name: County Series
Map date: **1892**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



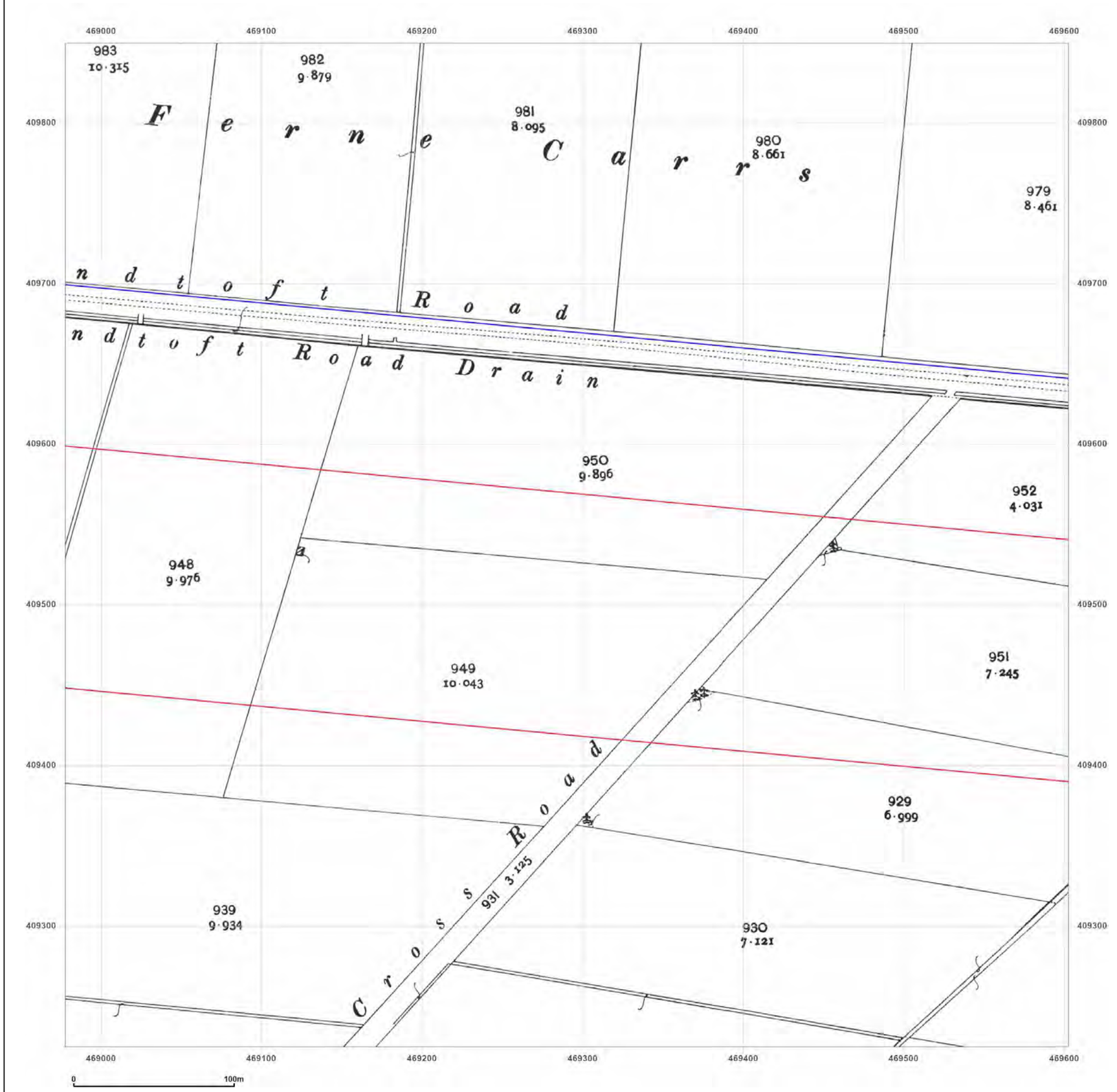
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_2
Grid Ref: 469290, 409537

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



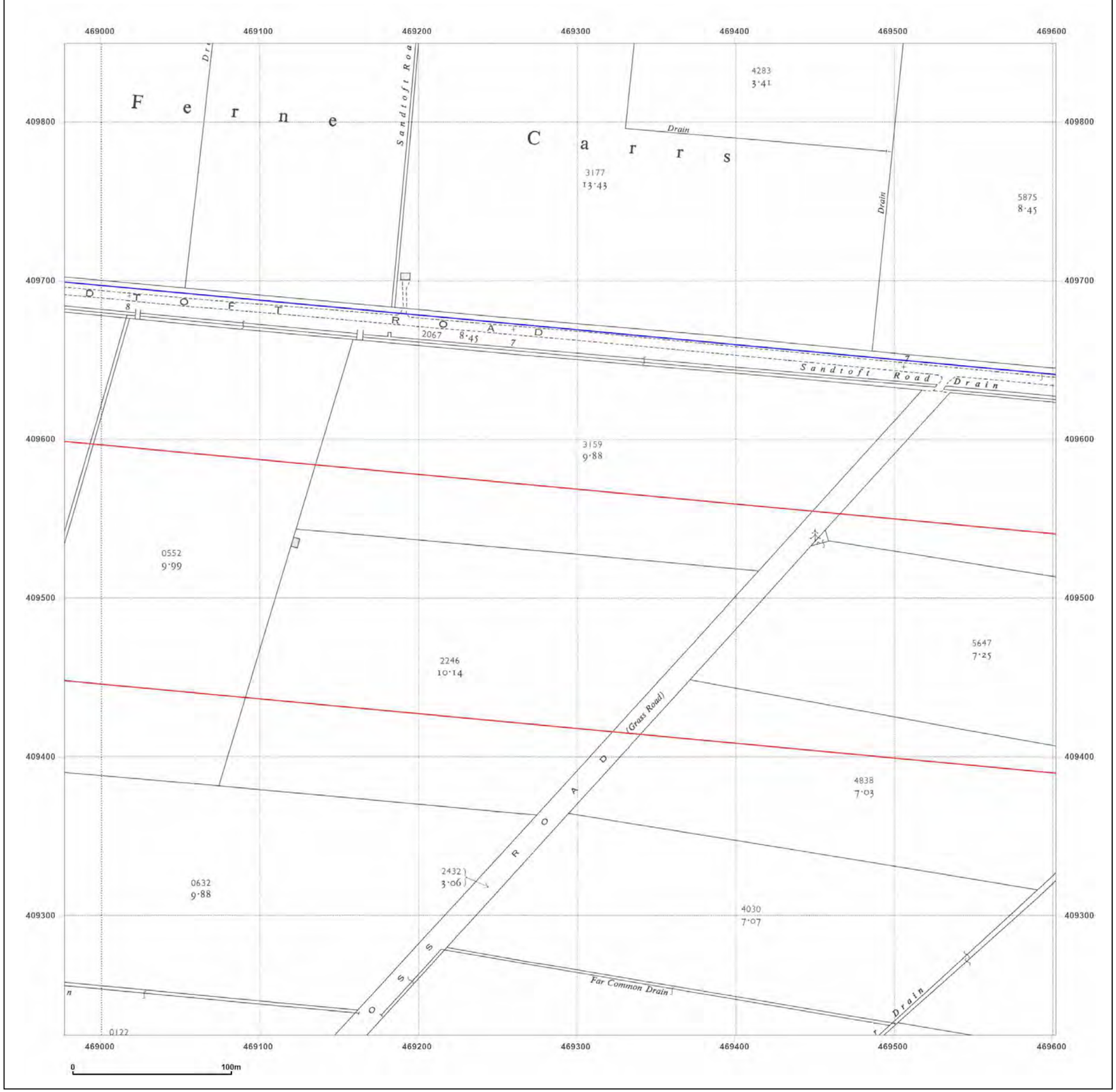
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_2
Grid Ref: 469290, 409537

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

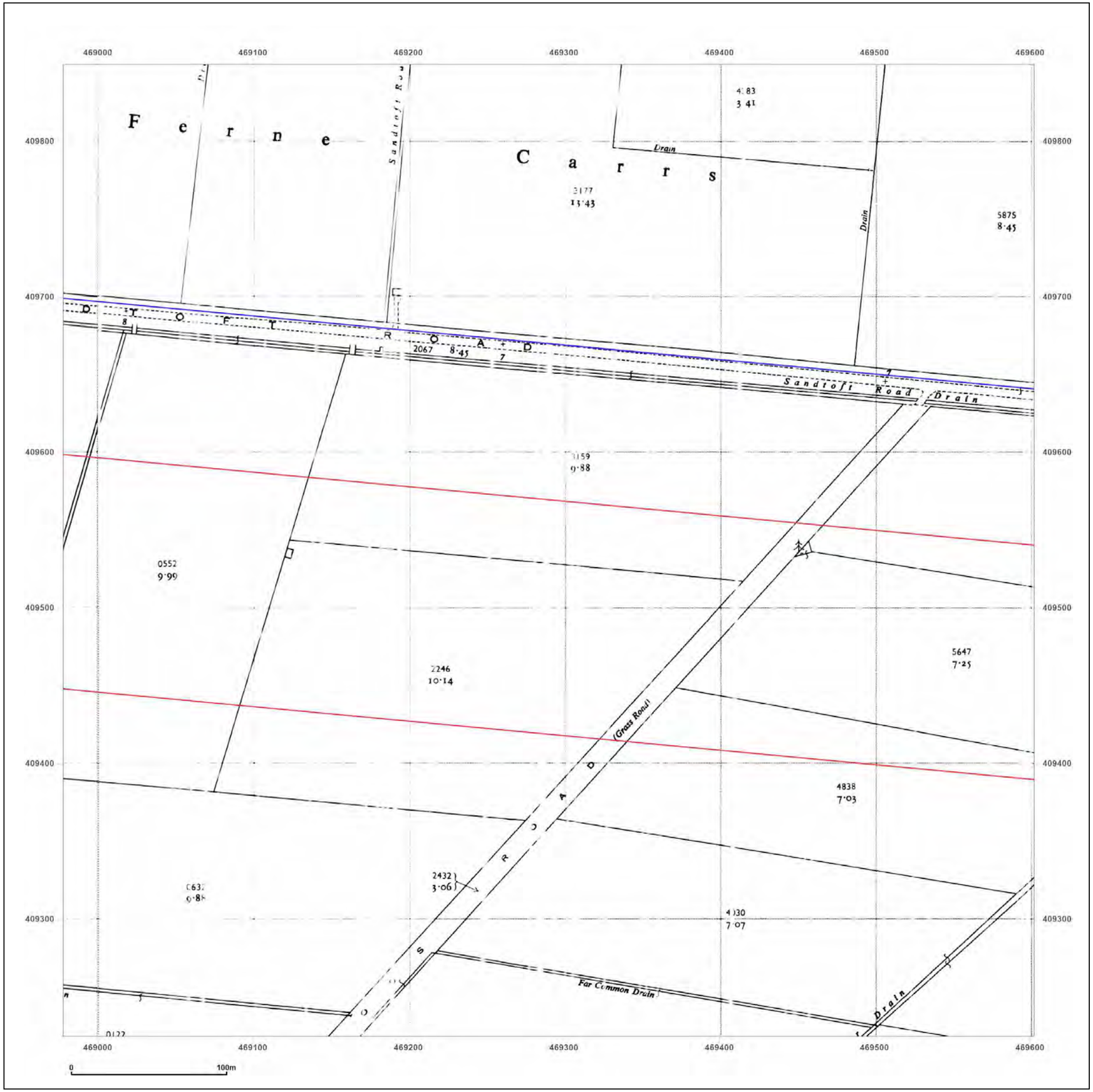
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_2
Grid Ref: 469290, 409537

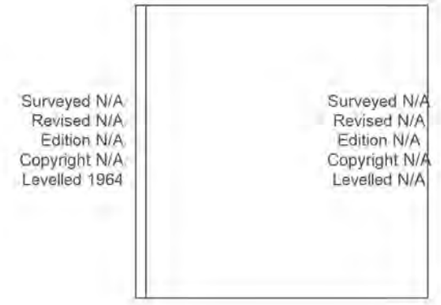
Map Name: National Grid

Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



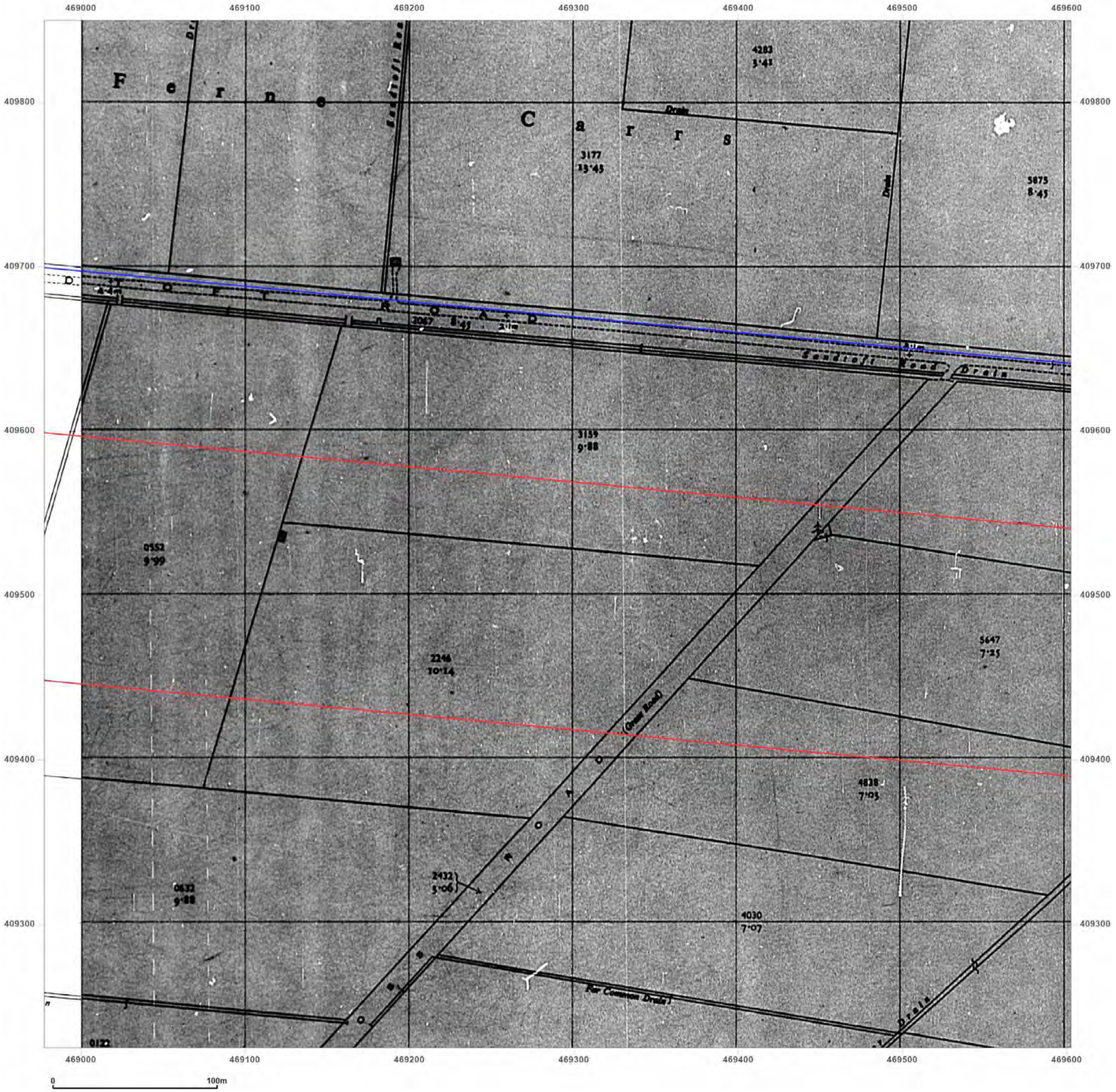
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_2
Grid Ref: 469290, 409537

Map Name: National Grid

Map date: **1978-1979**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

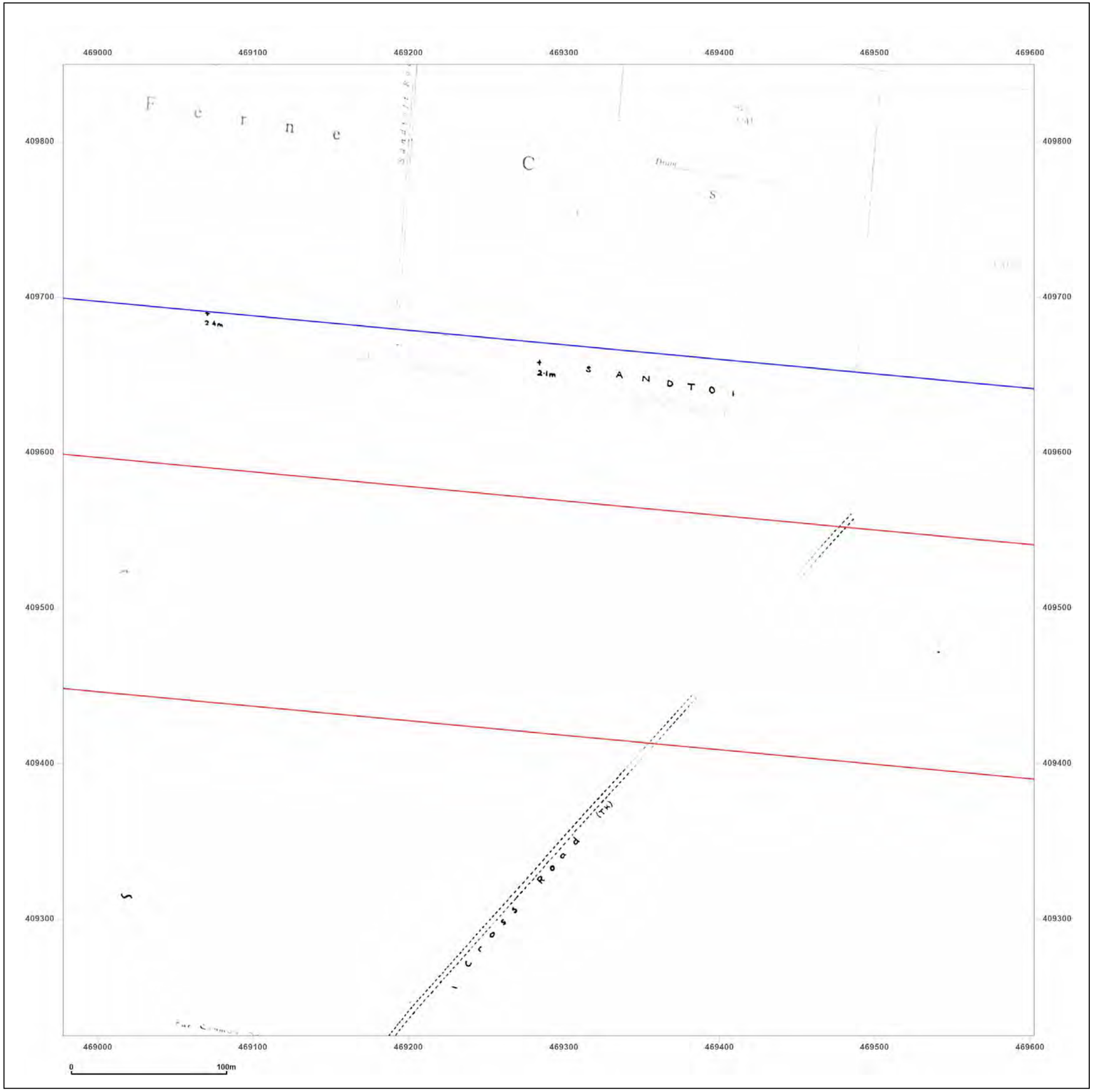
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_2
Grid Ref: 469290, 409537

Map Name: National Grid

Map date: **1984**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



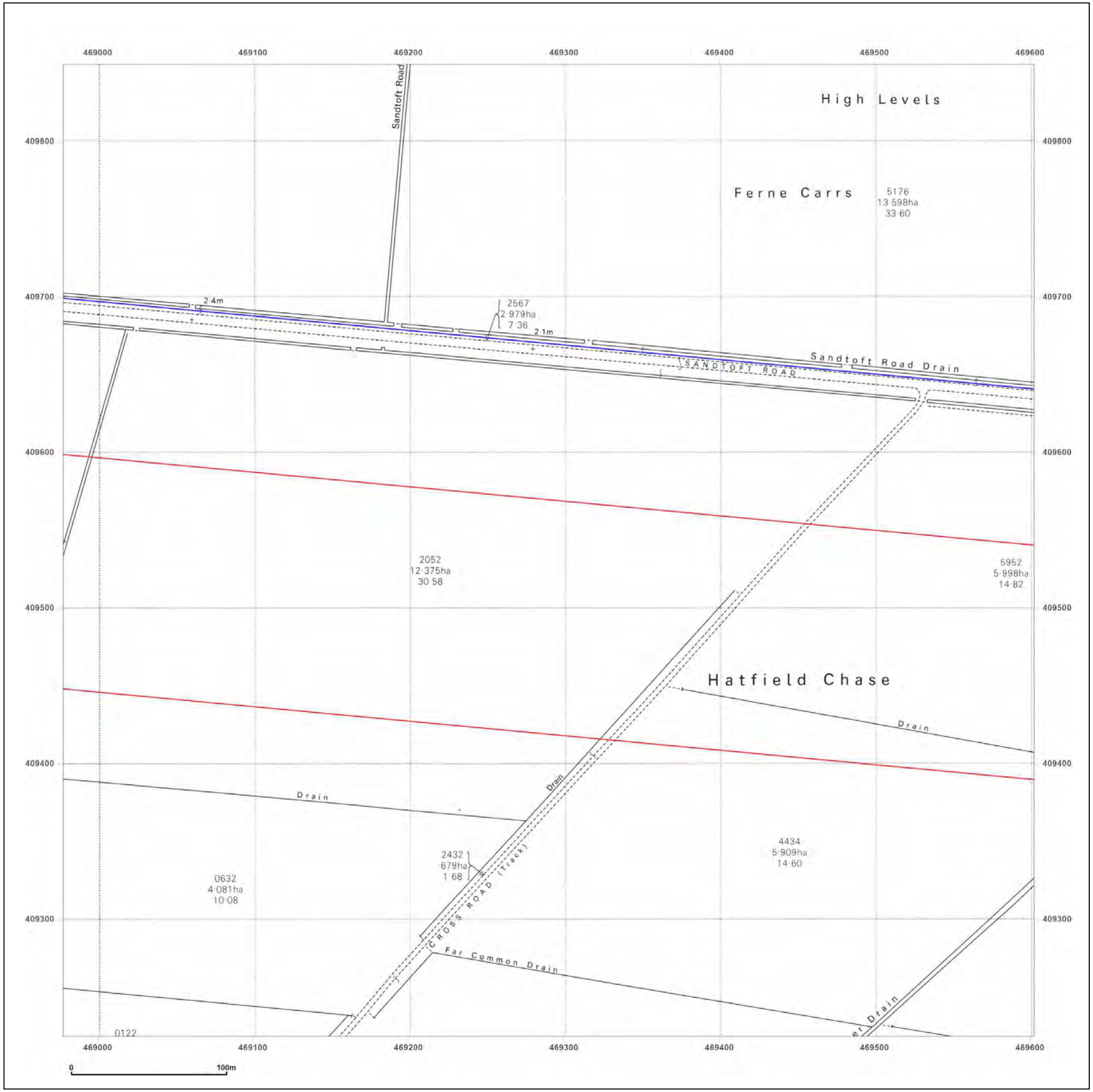
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_2
Grid Ref: 469290, 409537

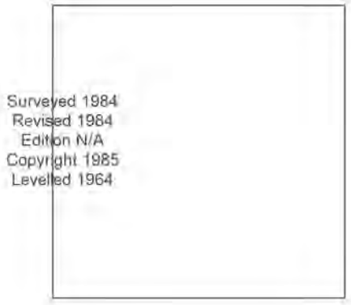
Map Name: National Grid

Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



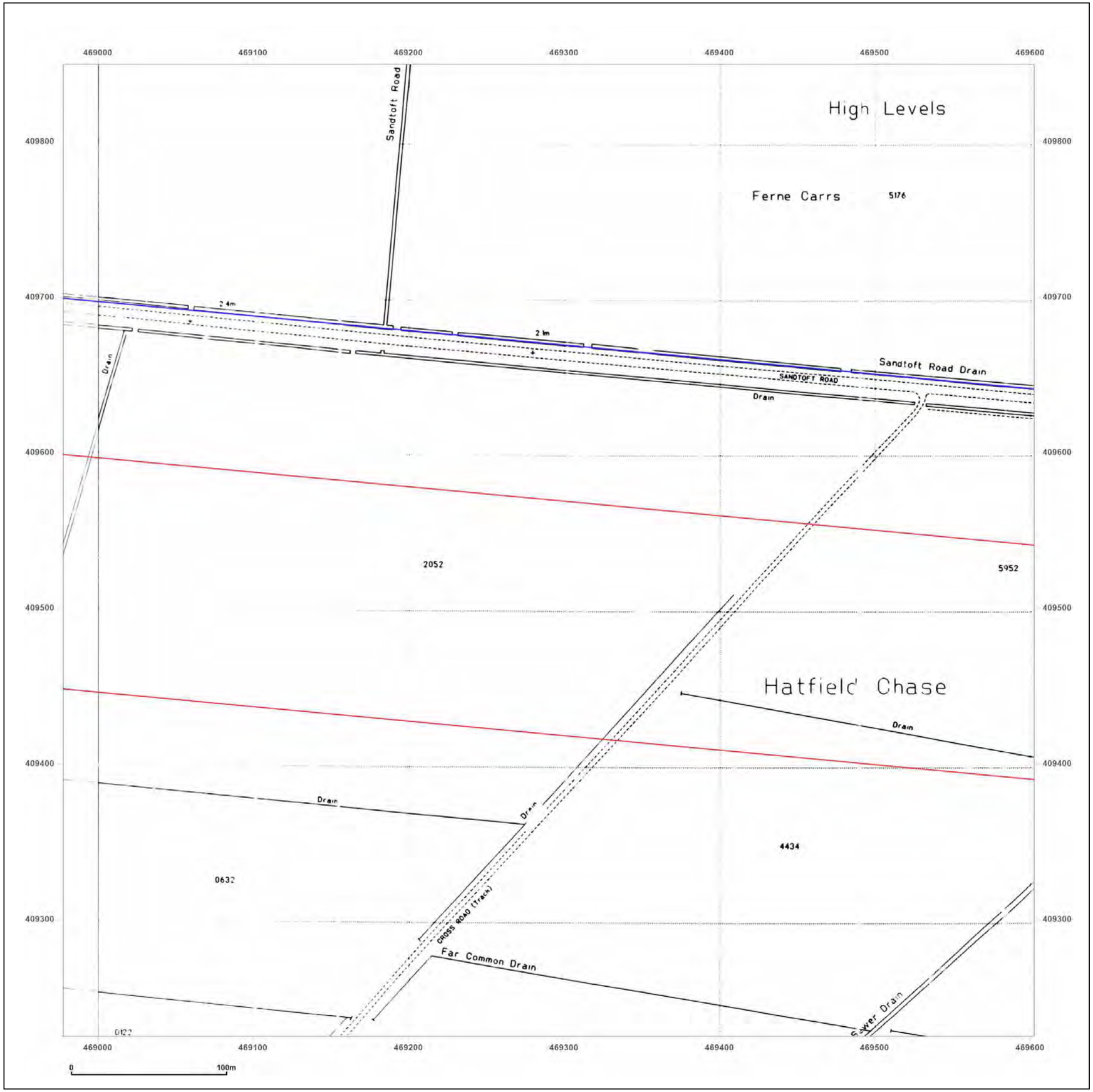
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_2
Grid Ref: 469290, 409537

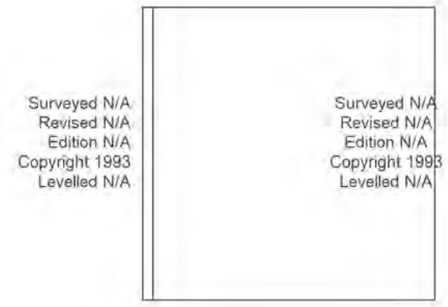
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



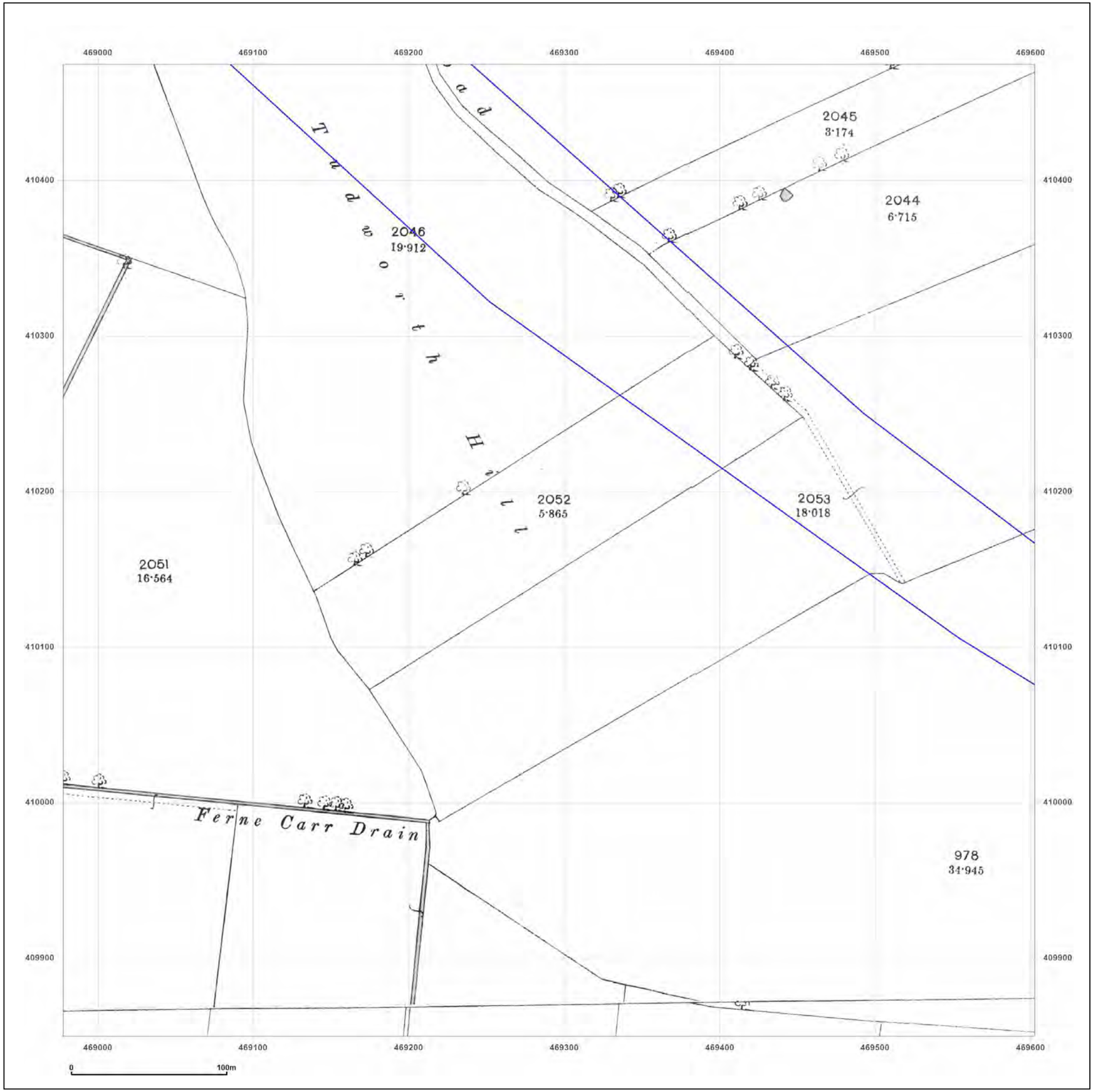
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_3
Grid Ref: 469290, 410162

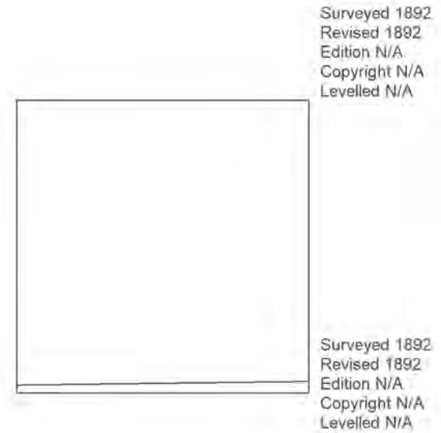
Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



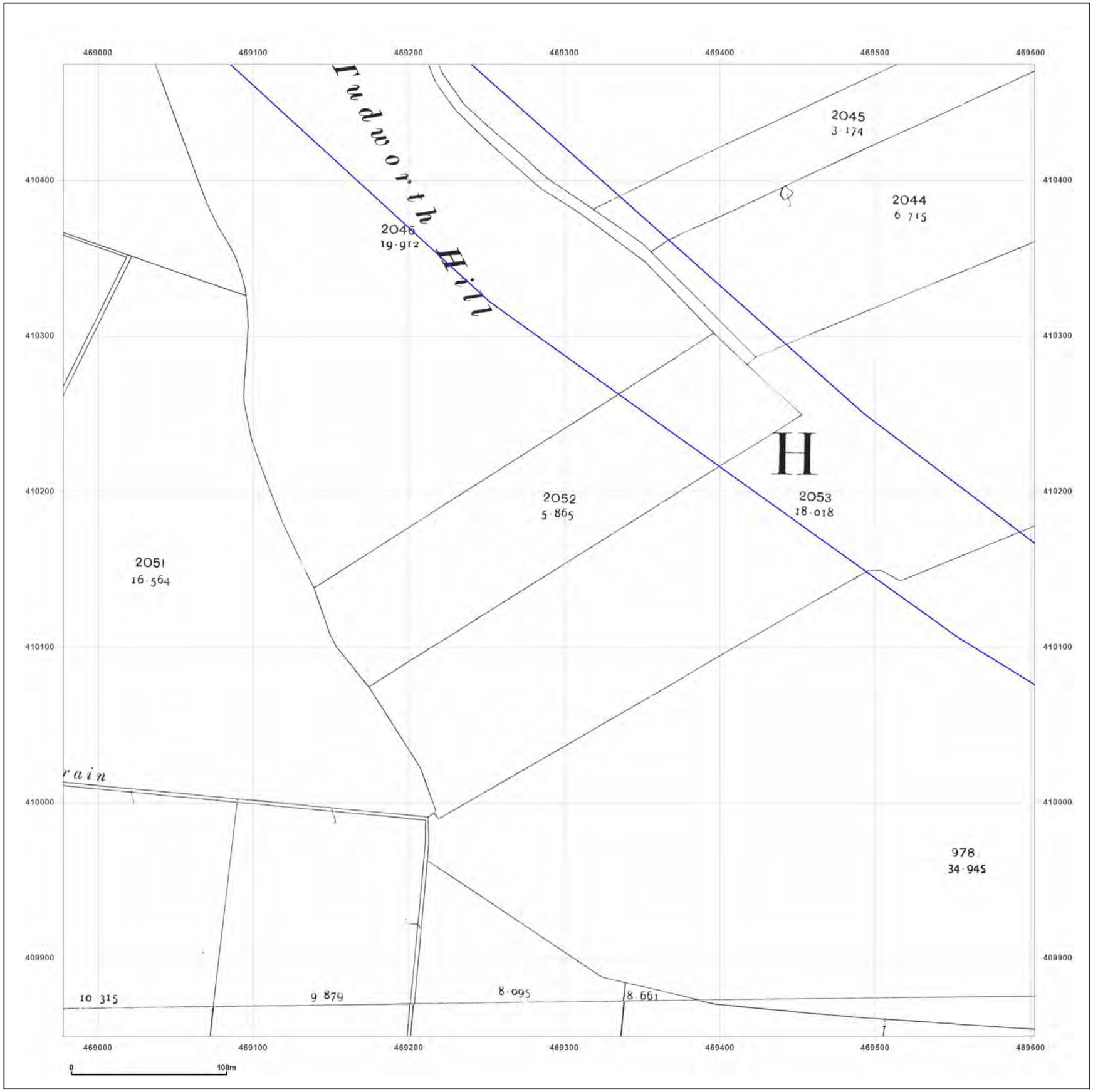
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_3
Grid Ref: 469290, 410162

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



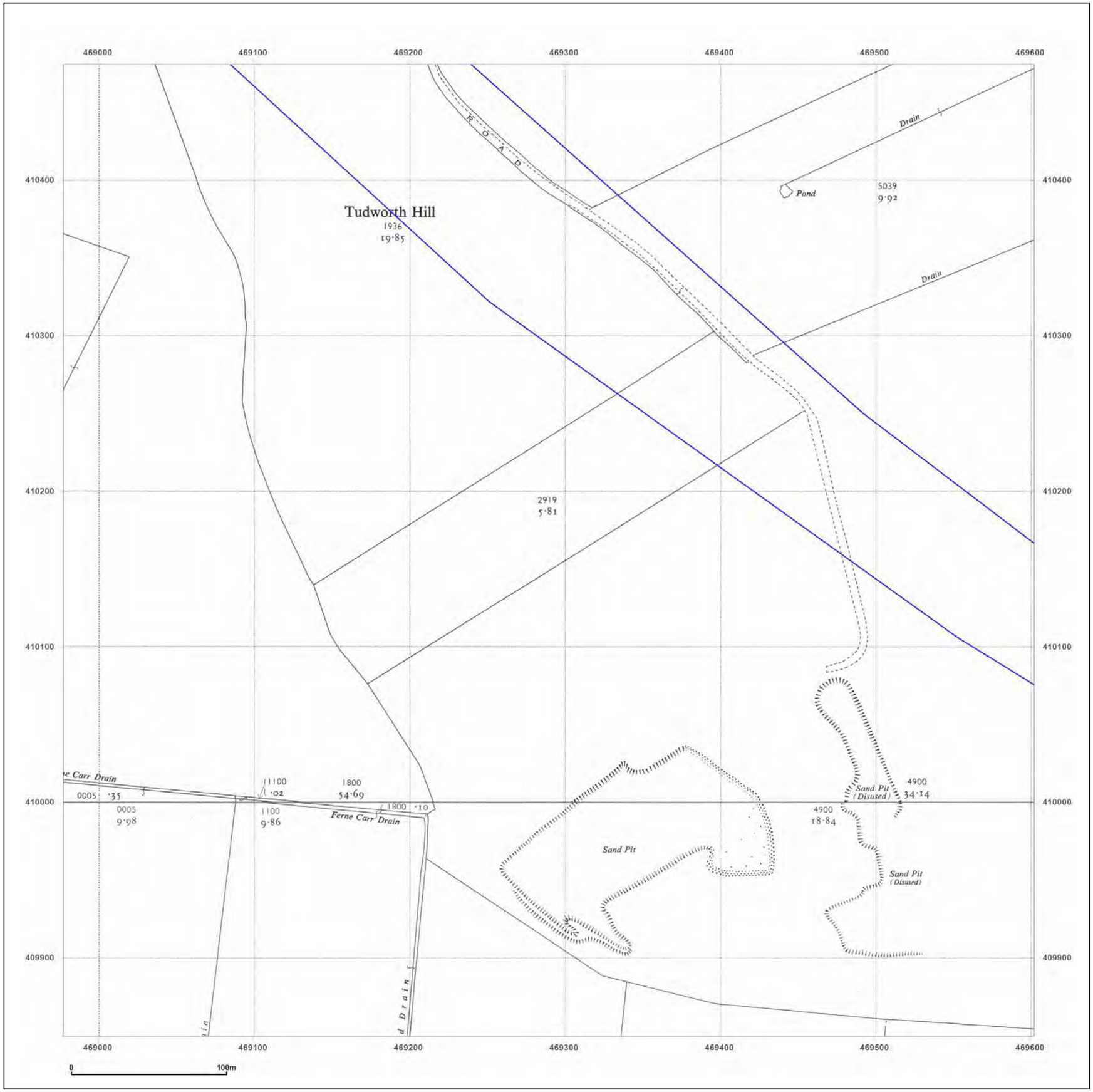
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_3
Grid Ref: 469290, 410162

Map Name: National Grid

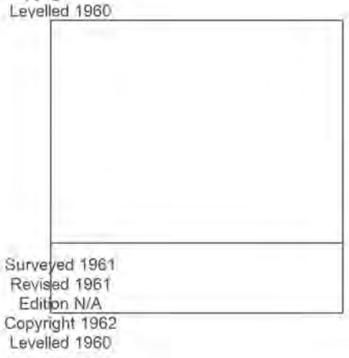
Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960



Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

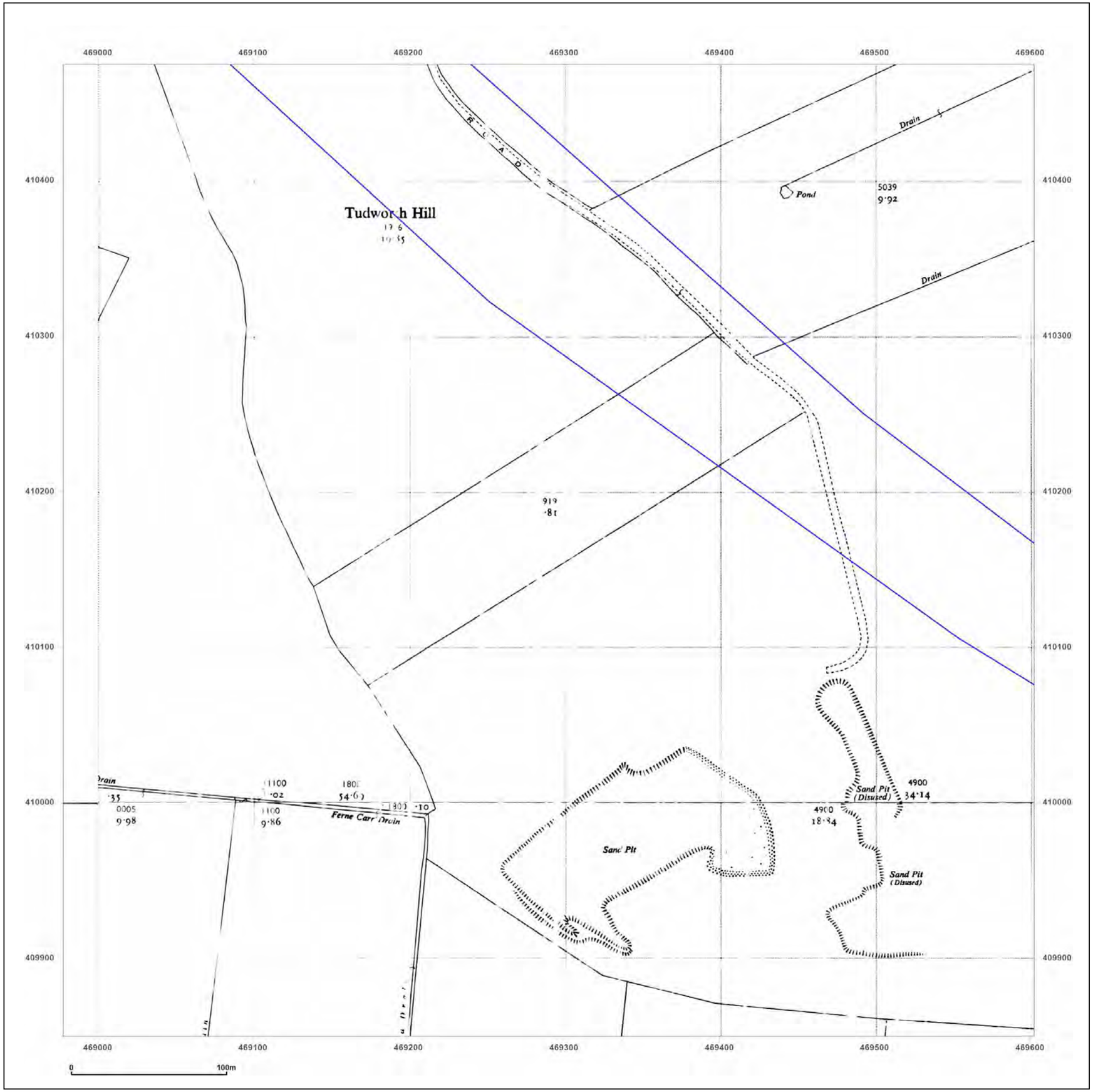
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_3
Grid Ref: 469290, 410162

Map Name: National Grid

Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1964

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

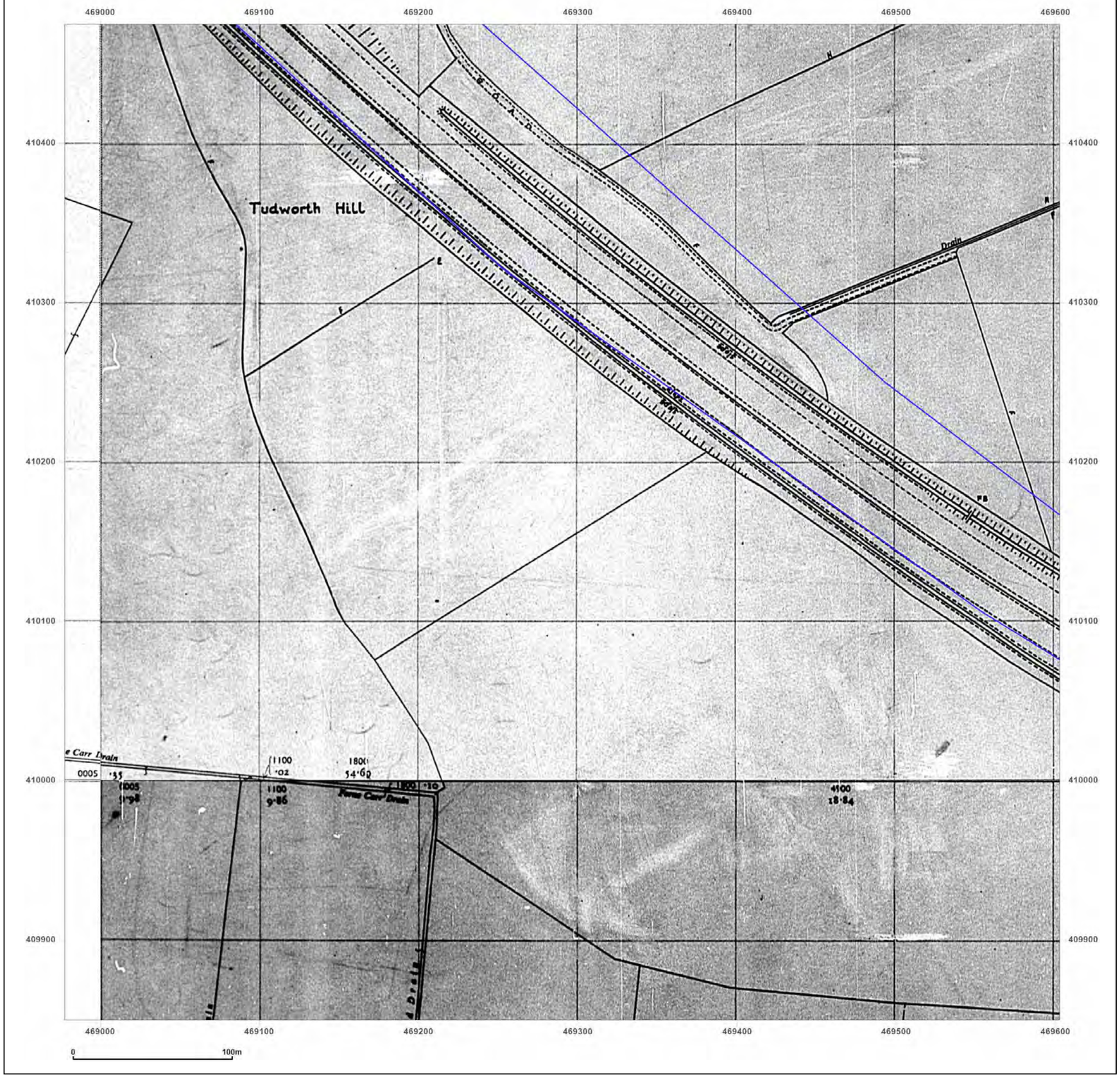
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_3
Grid Ref: 469290, 410162

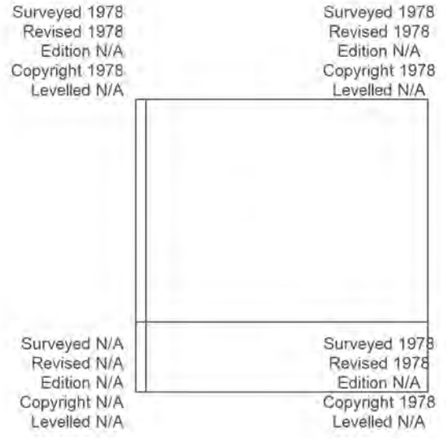
Map Name: National Grid

Map date: **1978-1979**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



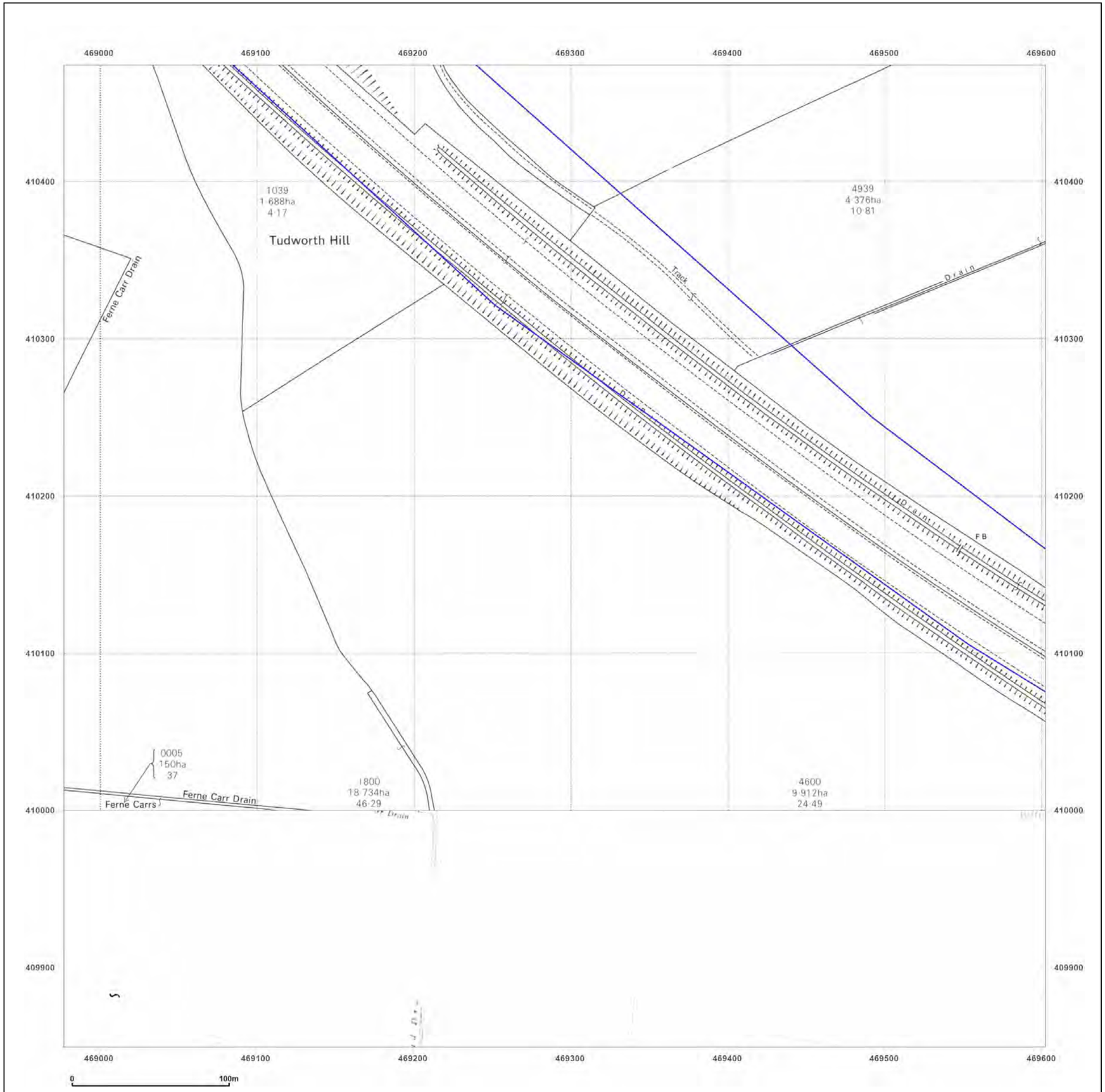
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_3
Grid Ref: 469290, 410162

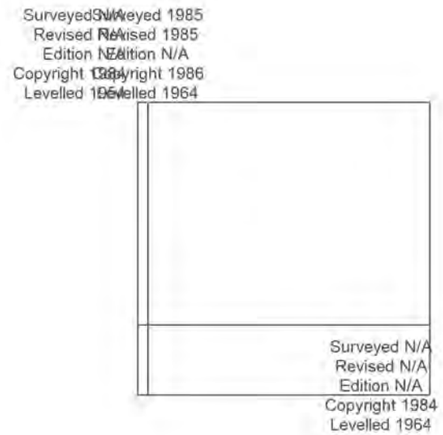
Map Name: National Grid

Map date: **1984-1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



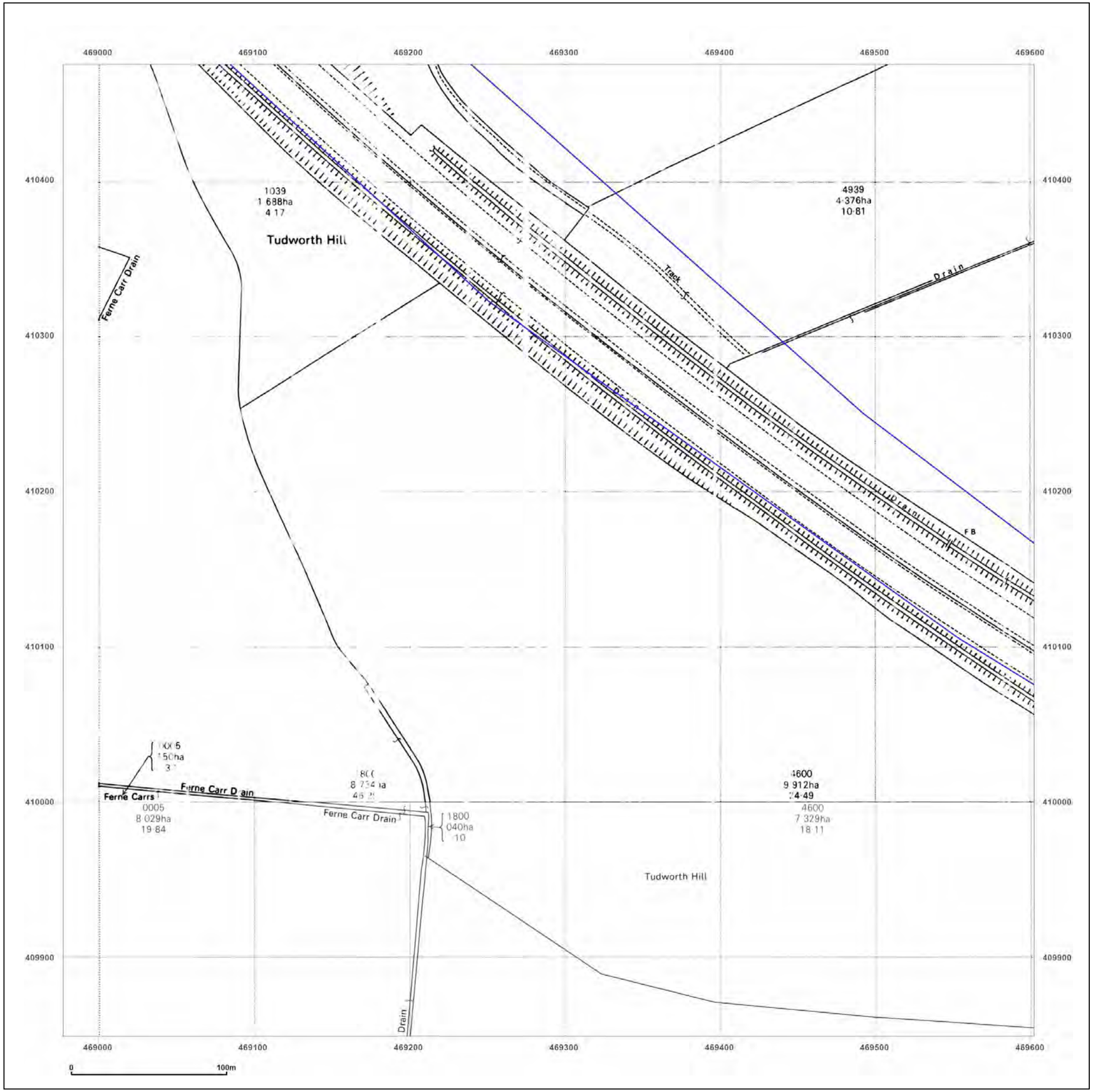
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Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_3
Grid Ref: 469290, 410162

Map Name: National Grid

Map date: **1985-1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



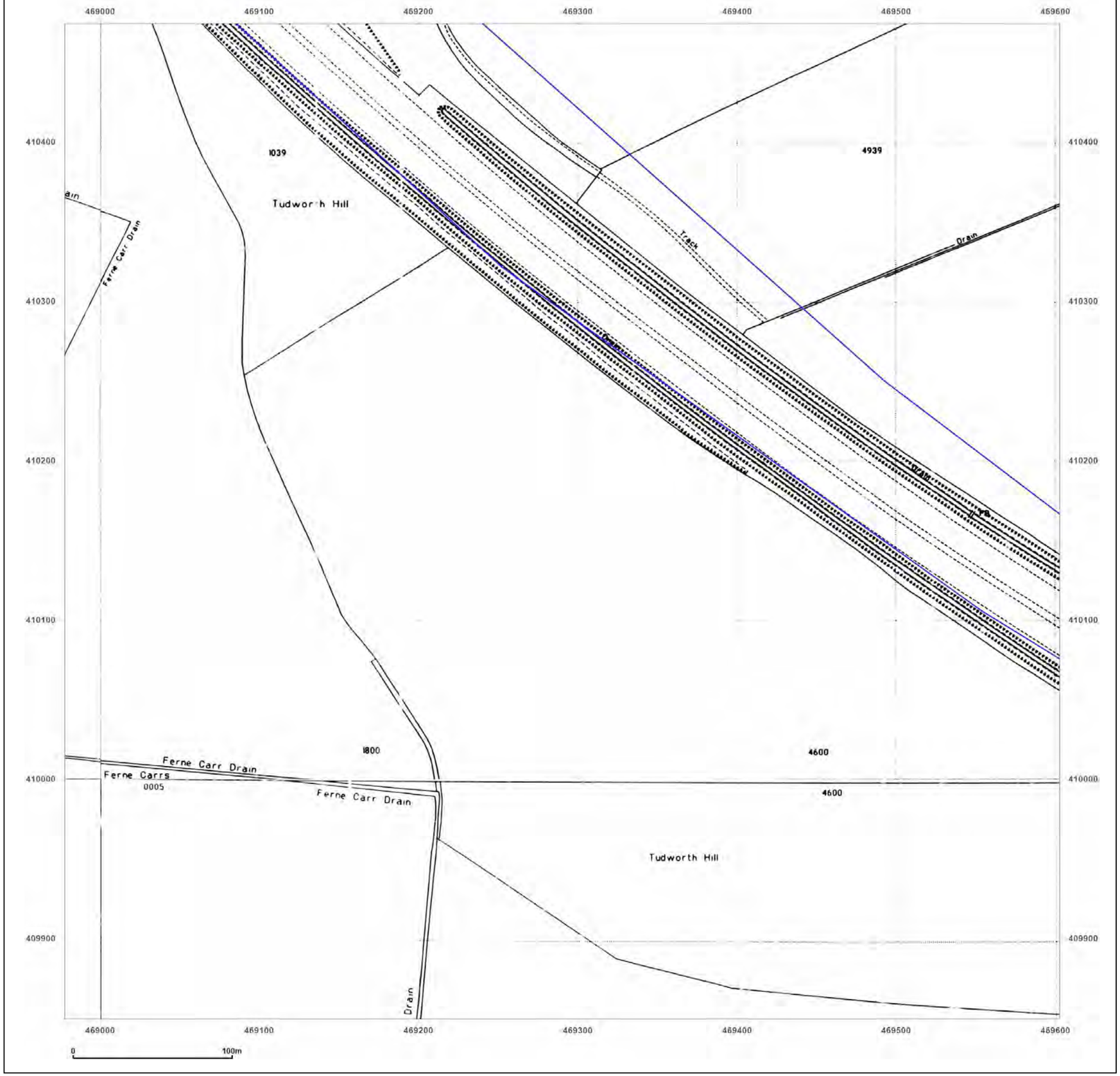
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_3
Grid Ref: 469290, 410162

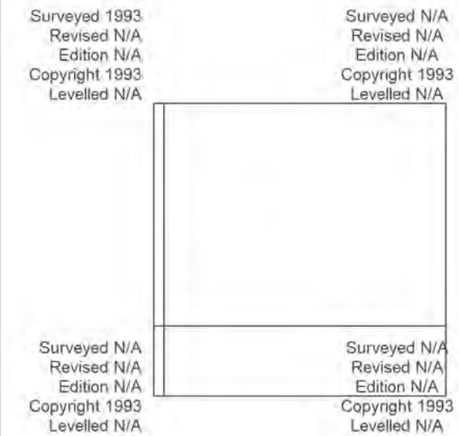
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



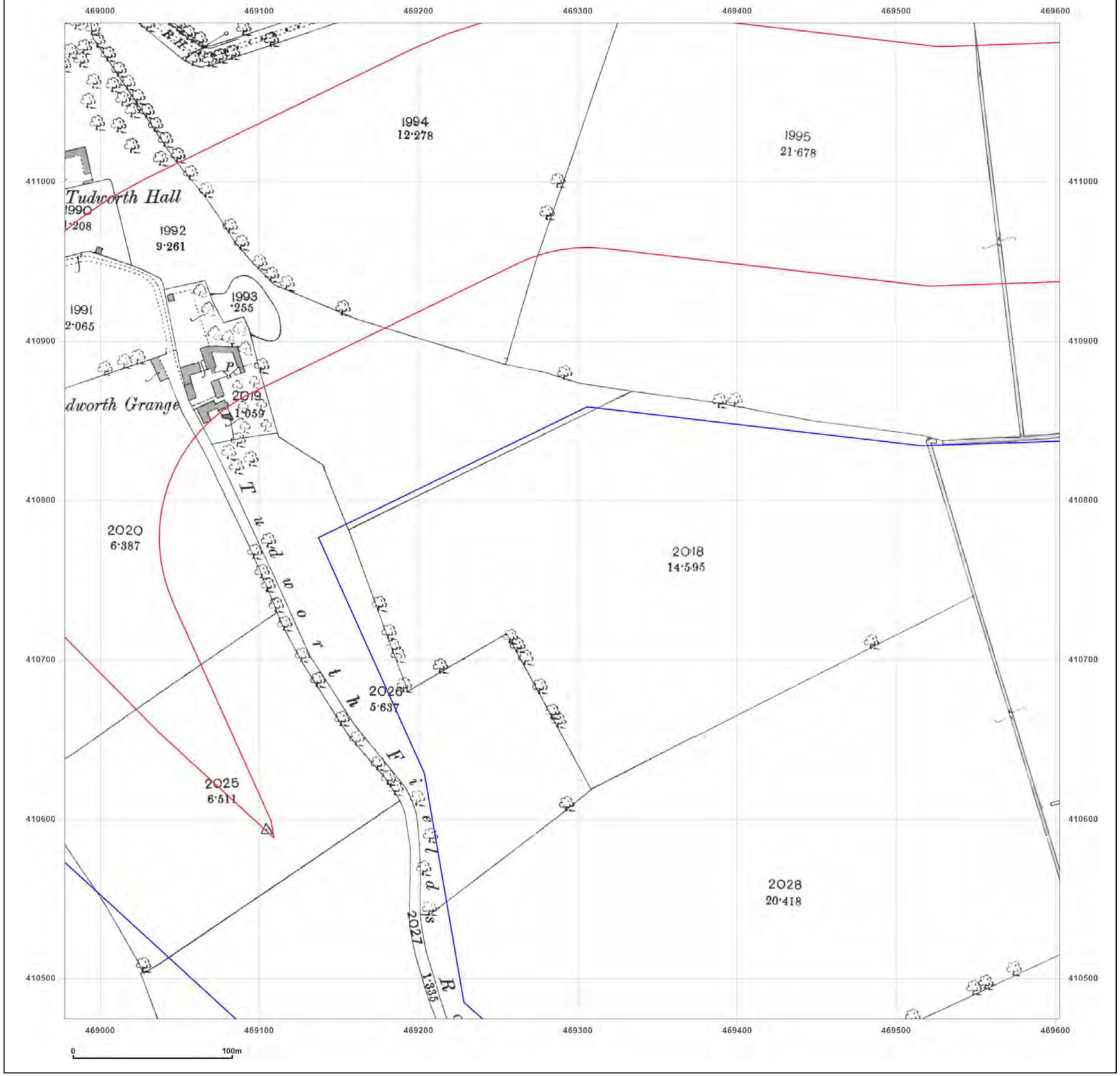
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_4
Grid Ref: 469290, 410787

Map Name: County Series

Map date: 1892

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

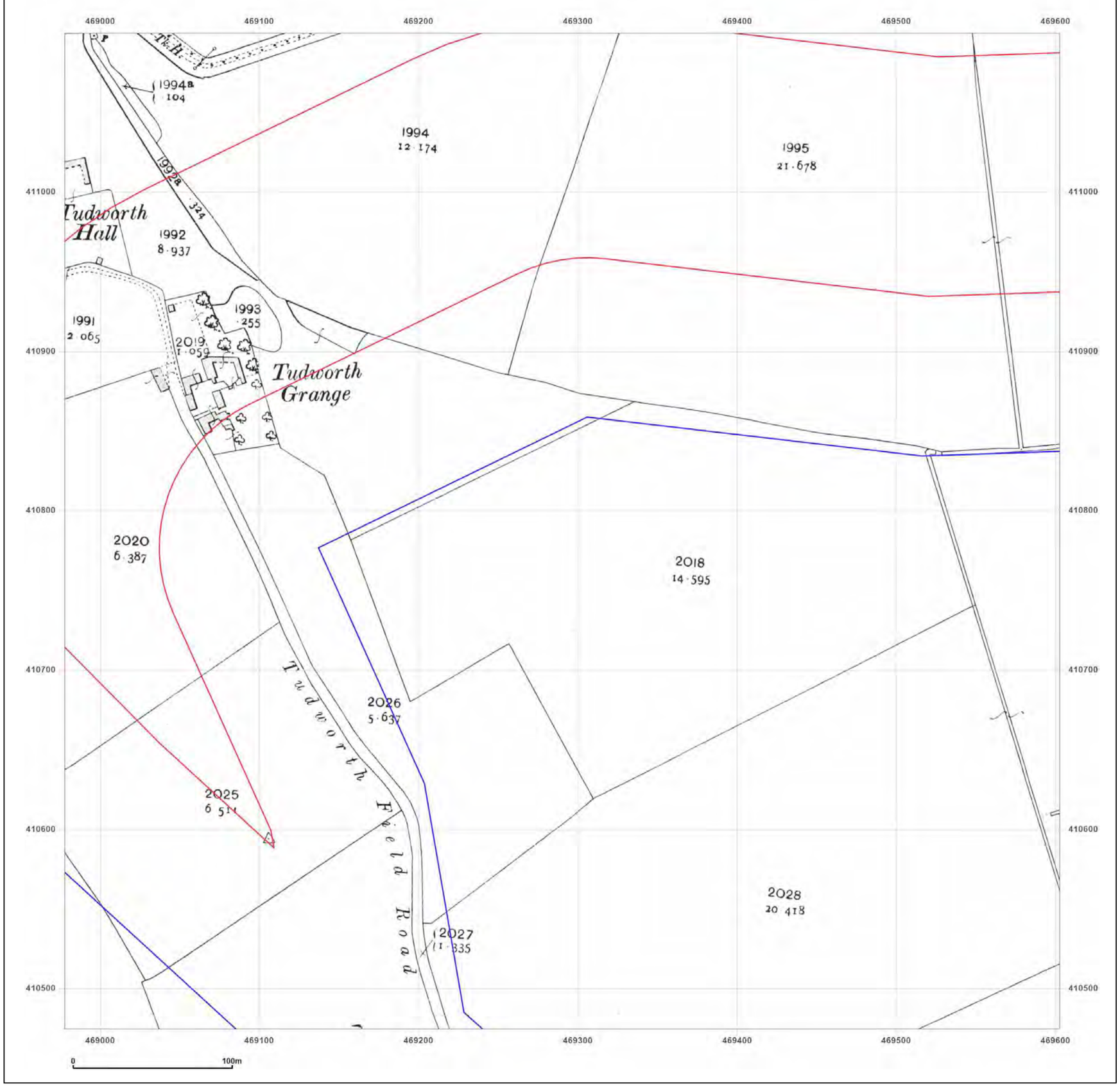
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_4
Grid Ref: 469290, 410787

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

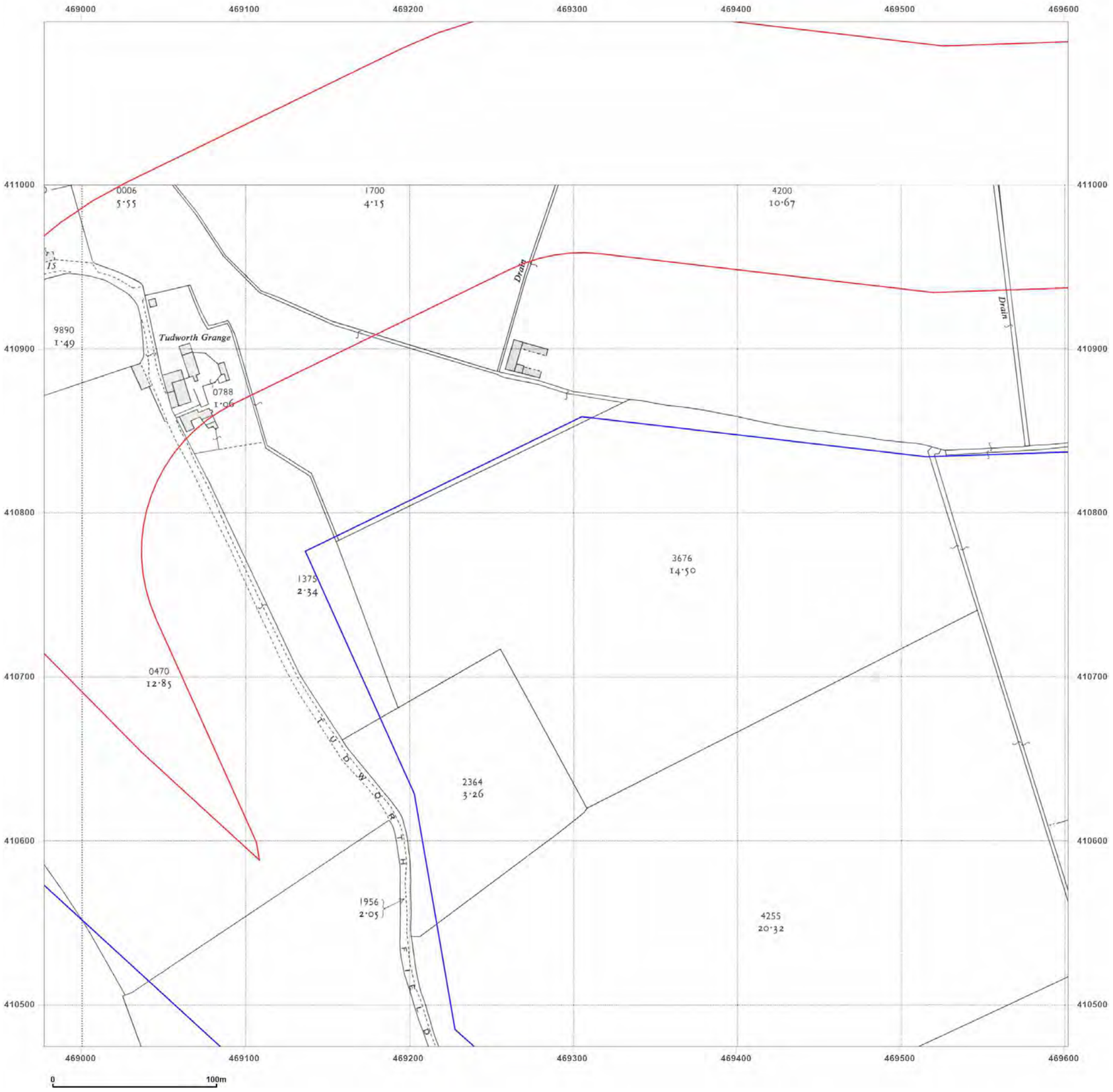
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_4
Grid Ref: 469290, 410787

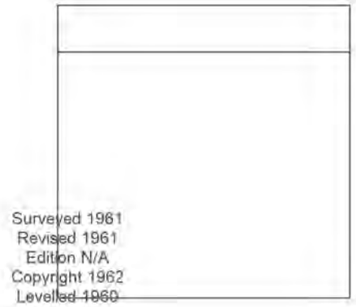
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



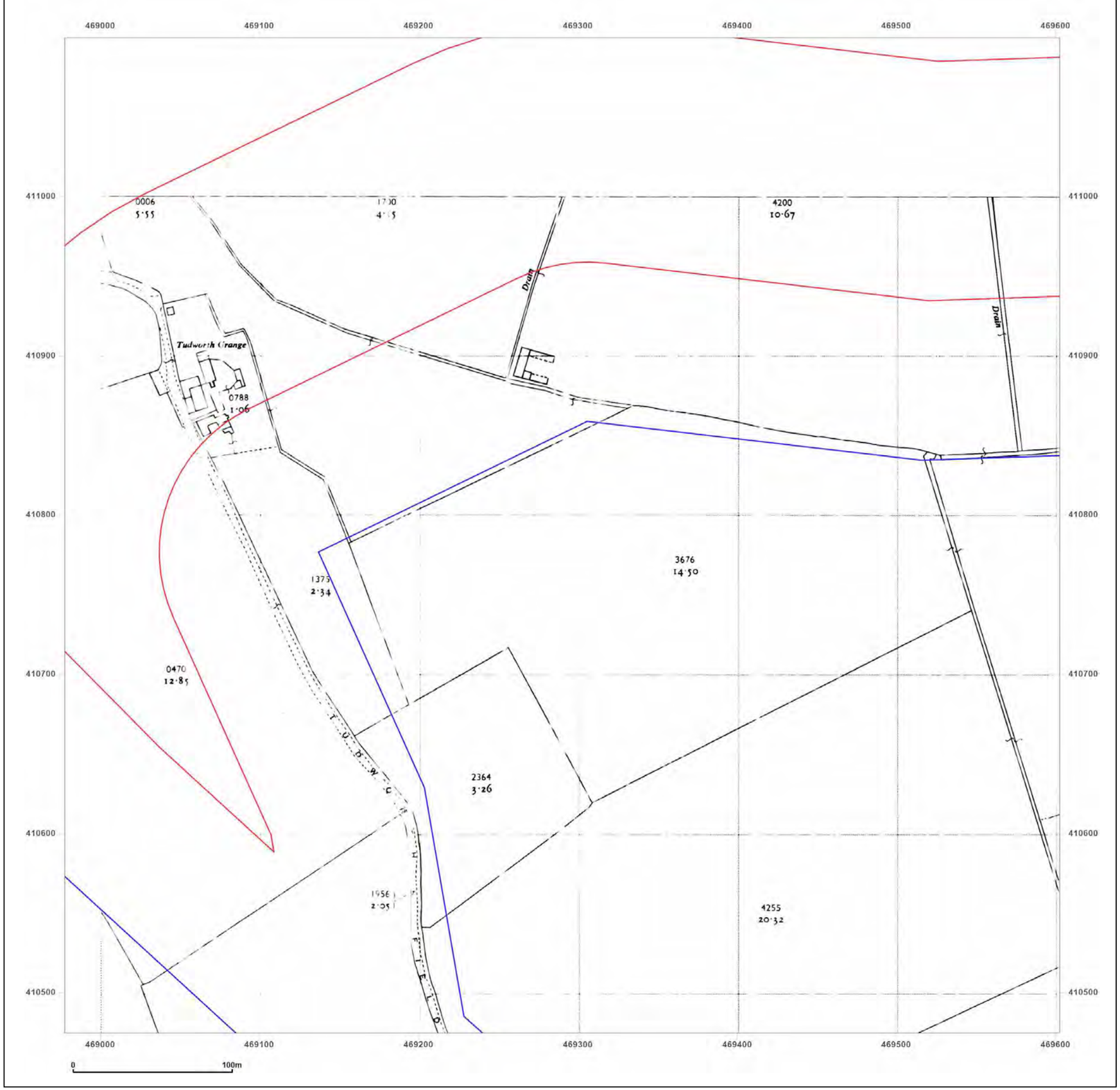
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_4
Grid Ref: 469290, 410787

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



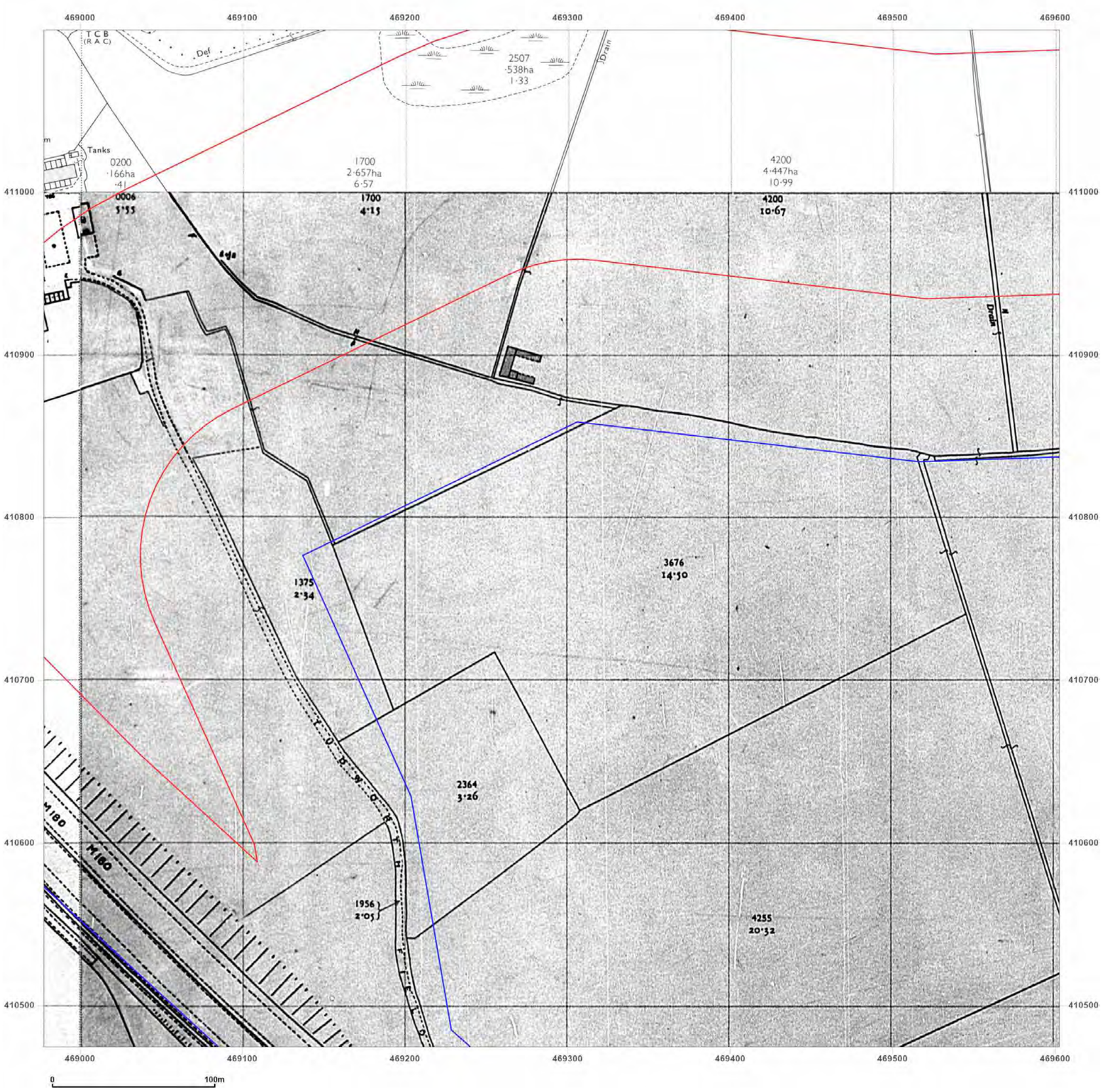
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_4
Grid Ref: 469290, 410787

Map Name: National Grid

Map date: **1974-1978**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1973
Revised 1973
Edition N/A
Copyright 1974
Levelled 1964

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

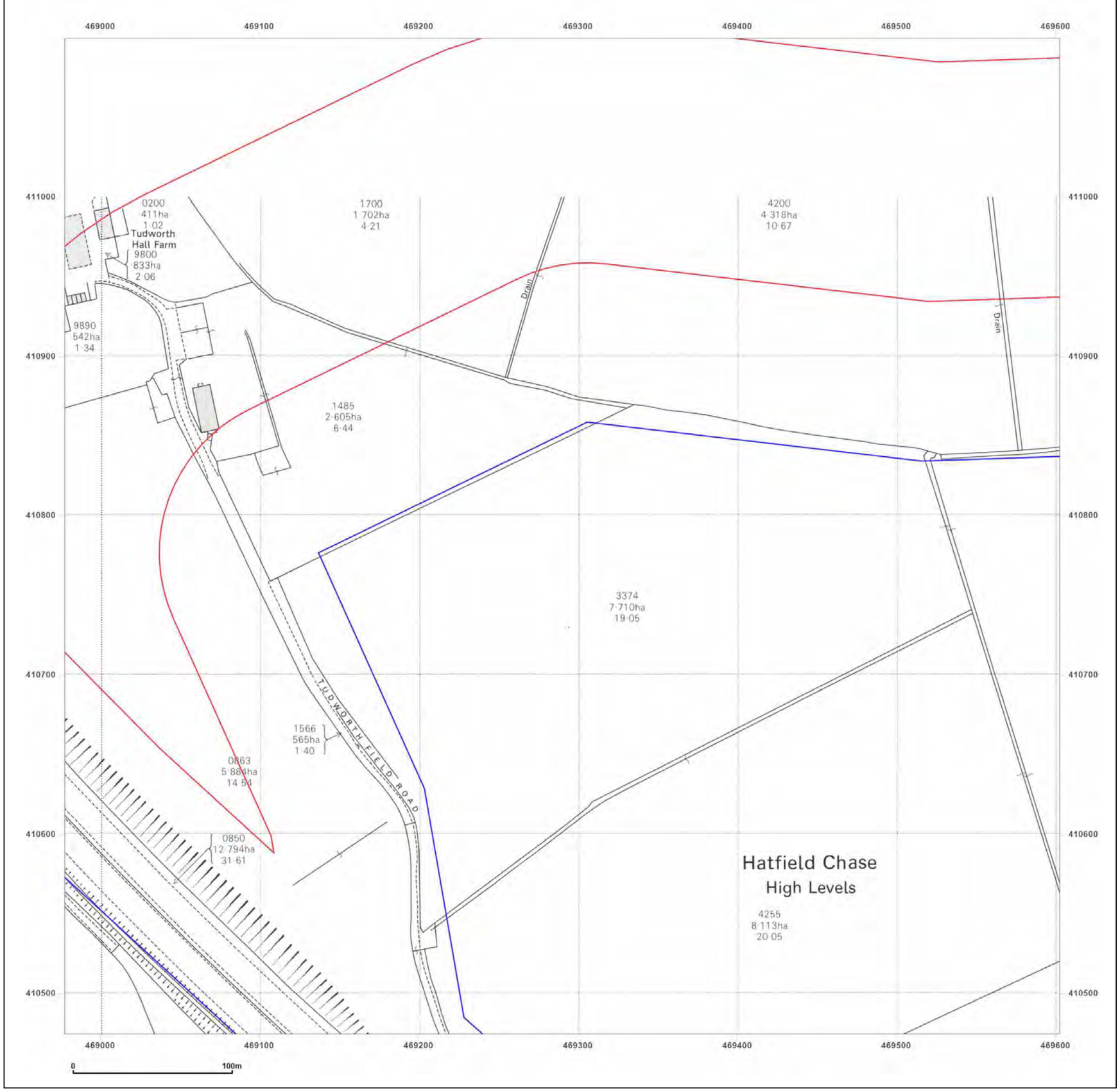
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_4
Grid Ref: 469290, 410787

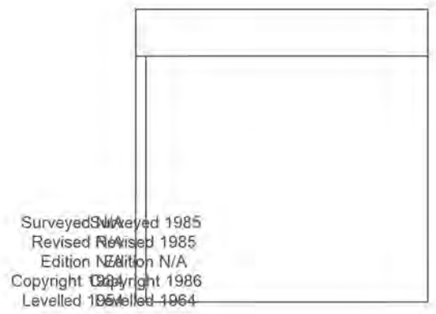
Map Name: National Grid

Map date: **1984-1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



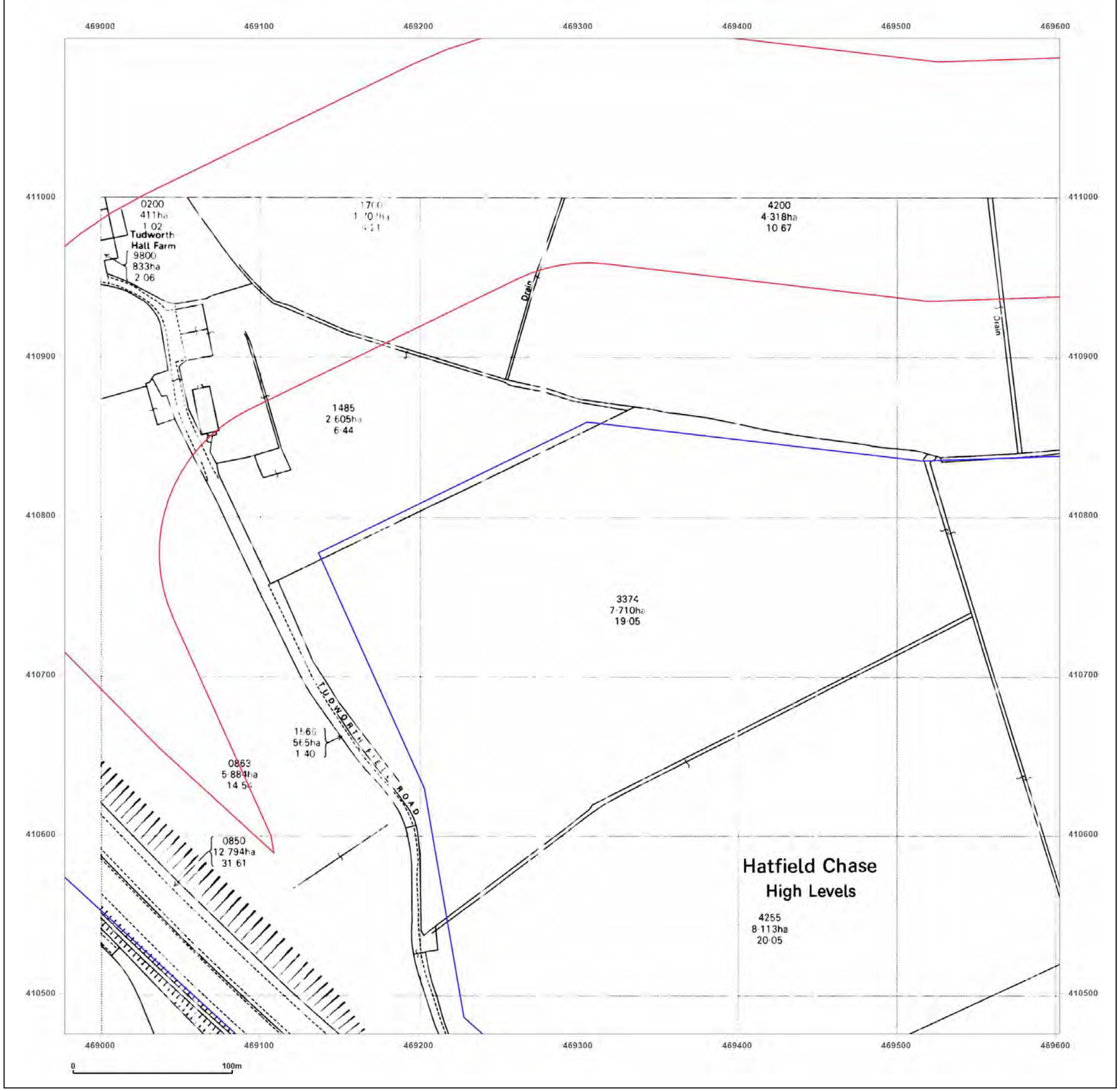
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_4
Grid Ref: 469290, 410787

Map Name: National Grid

Map date: **1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



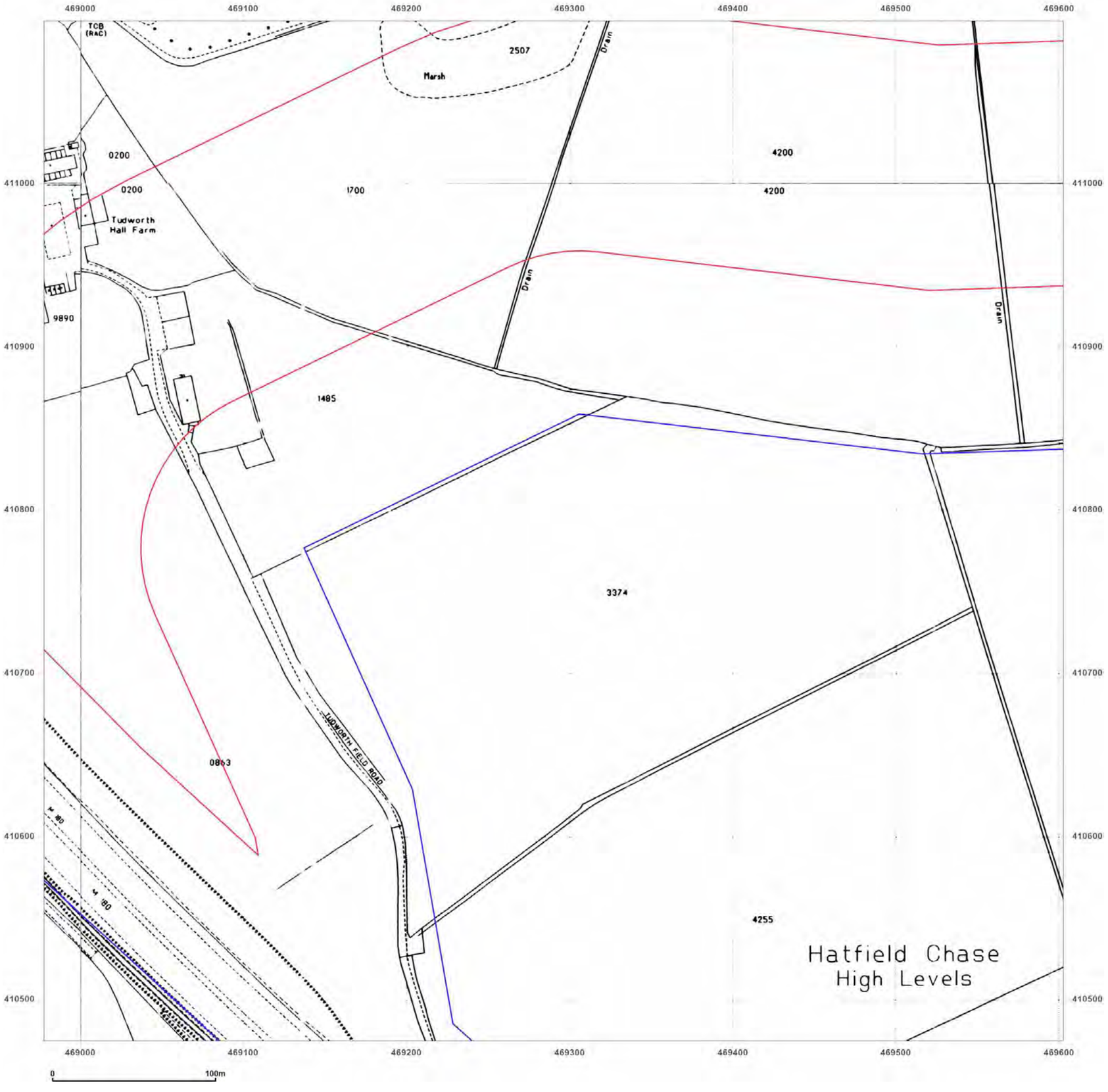
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_4
Grid Ref: 469290, 410787

Map Name: National Grid

Map date: **1993**

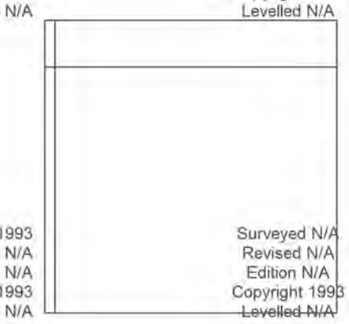
Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

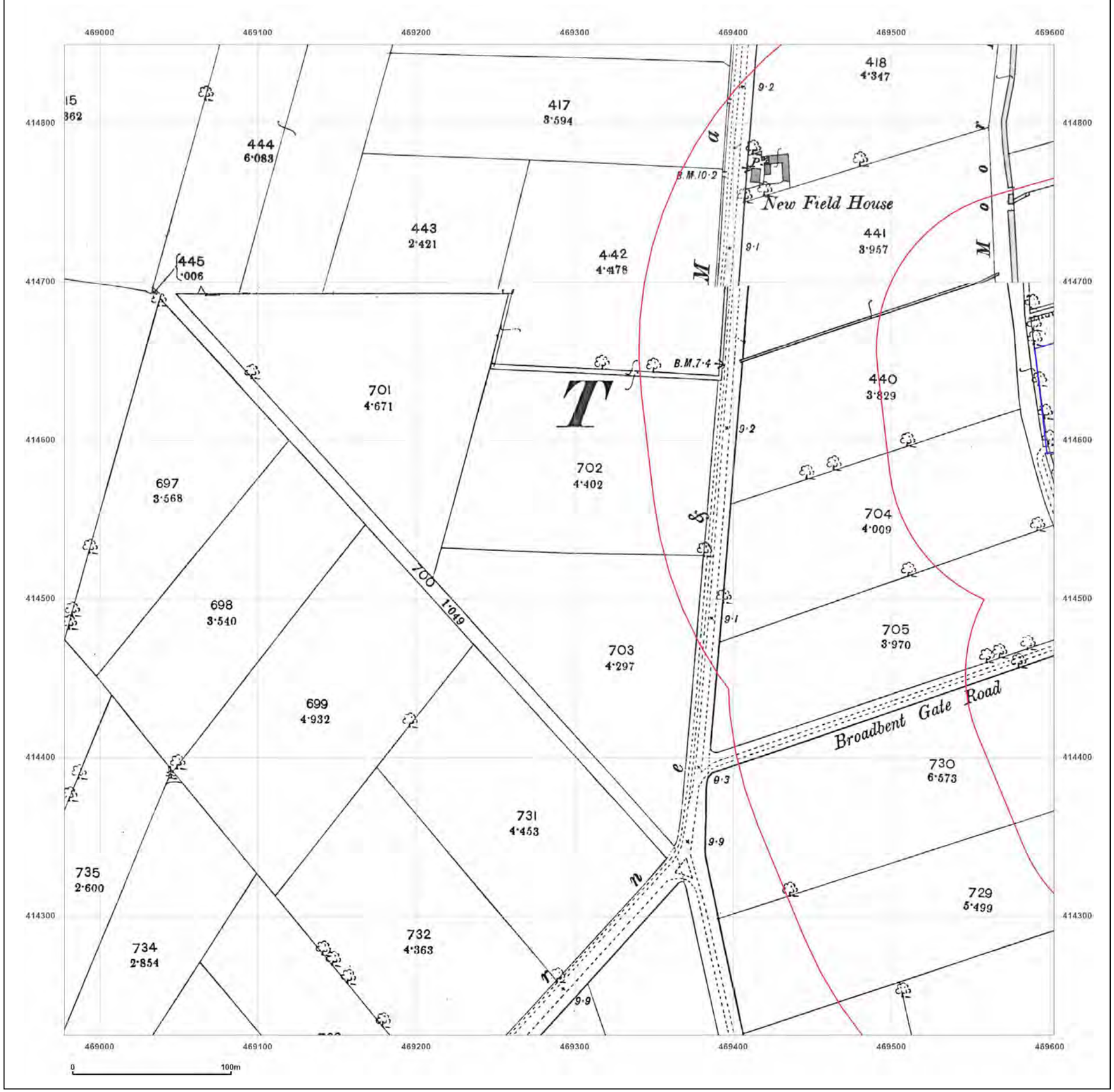
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_10
Grid Ref: 469290, 414537

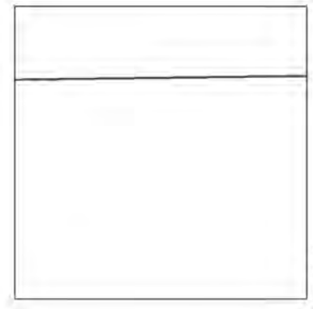
Map Name: County Series

Map date: 1892

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1890
Revised N/A
Edition 1892
Copyright N/A
Levelled N/A

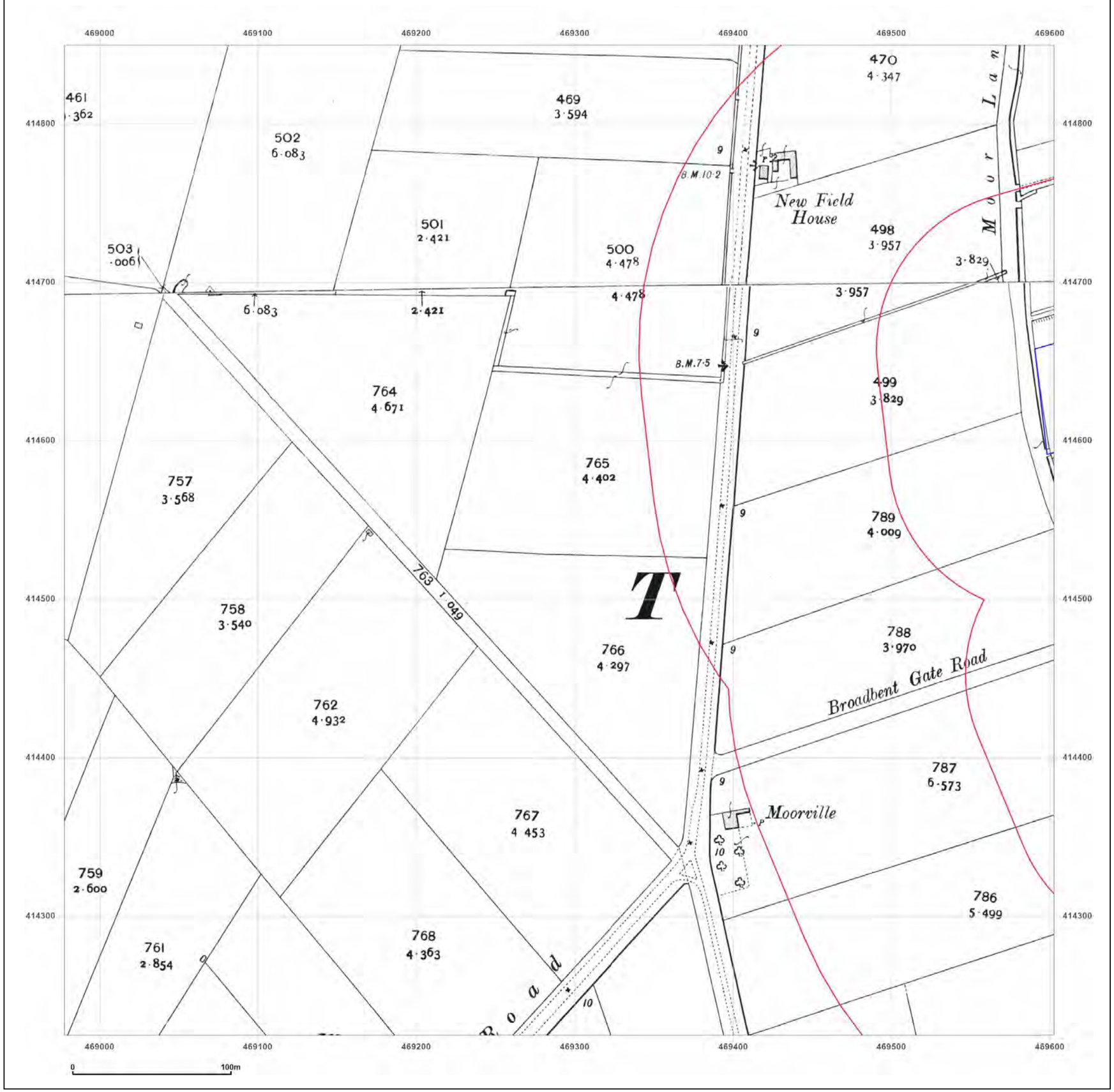
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_10
Grid Ref: 469290, 414537

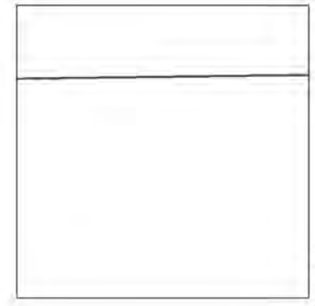
Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



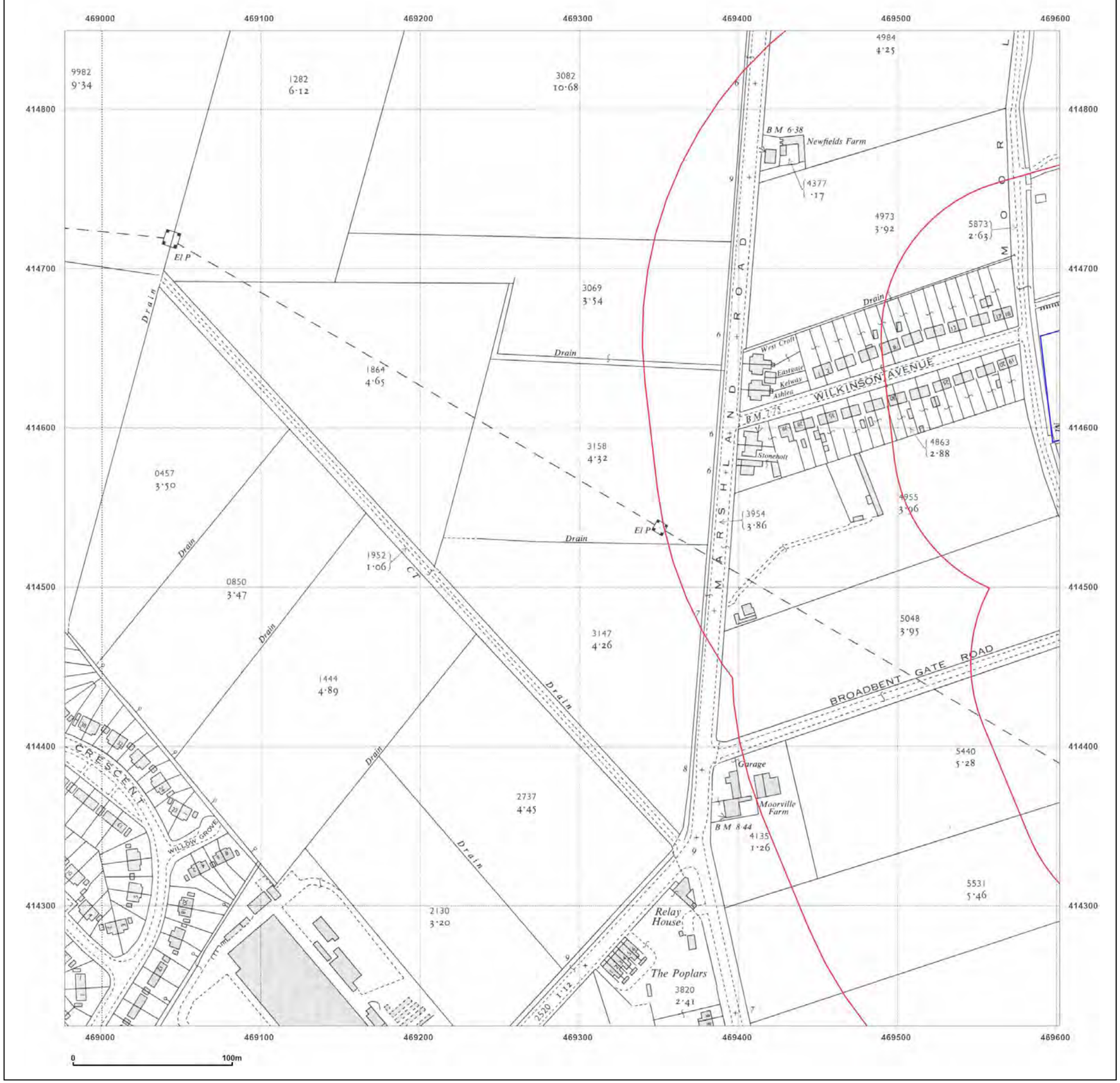
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_10
Grid Ref: 469290, 414537

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_10
Grid Ref: 469290, 414537

Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1970
Revised 1970
Edition N/A
Copyright 1971
Levelled 1964

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_10
Grid Ref: 469290, 414537

Map Name: National Grid
Map date: **1977-1979**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A	Surveyed N/A
Revised N/A	Revised N/A
Edition N/A	Edition 1979
Copyright N/A	Copyright N/A
Levelled N/A	Levelled 1964

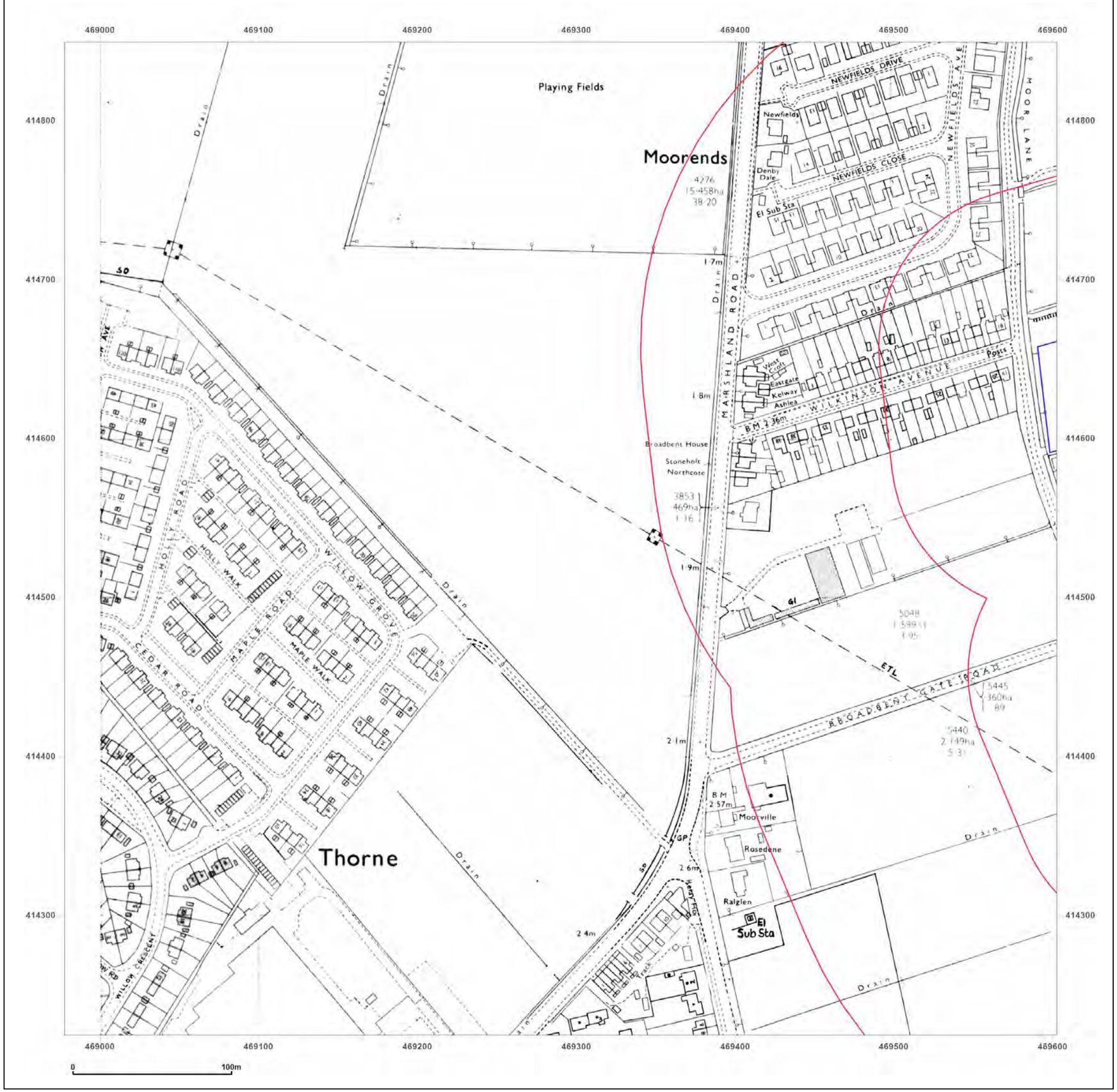
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_10
Grid Ref: 469290, 414537

Map Name: National Grid

Map date: **1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



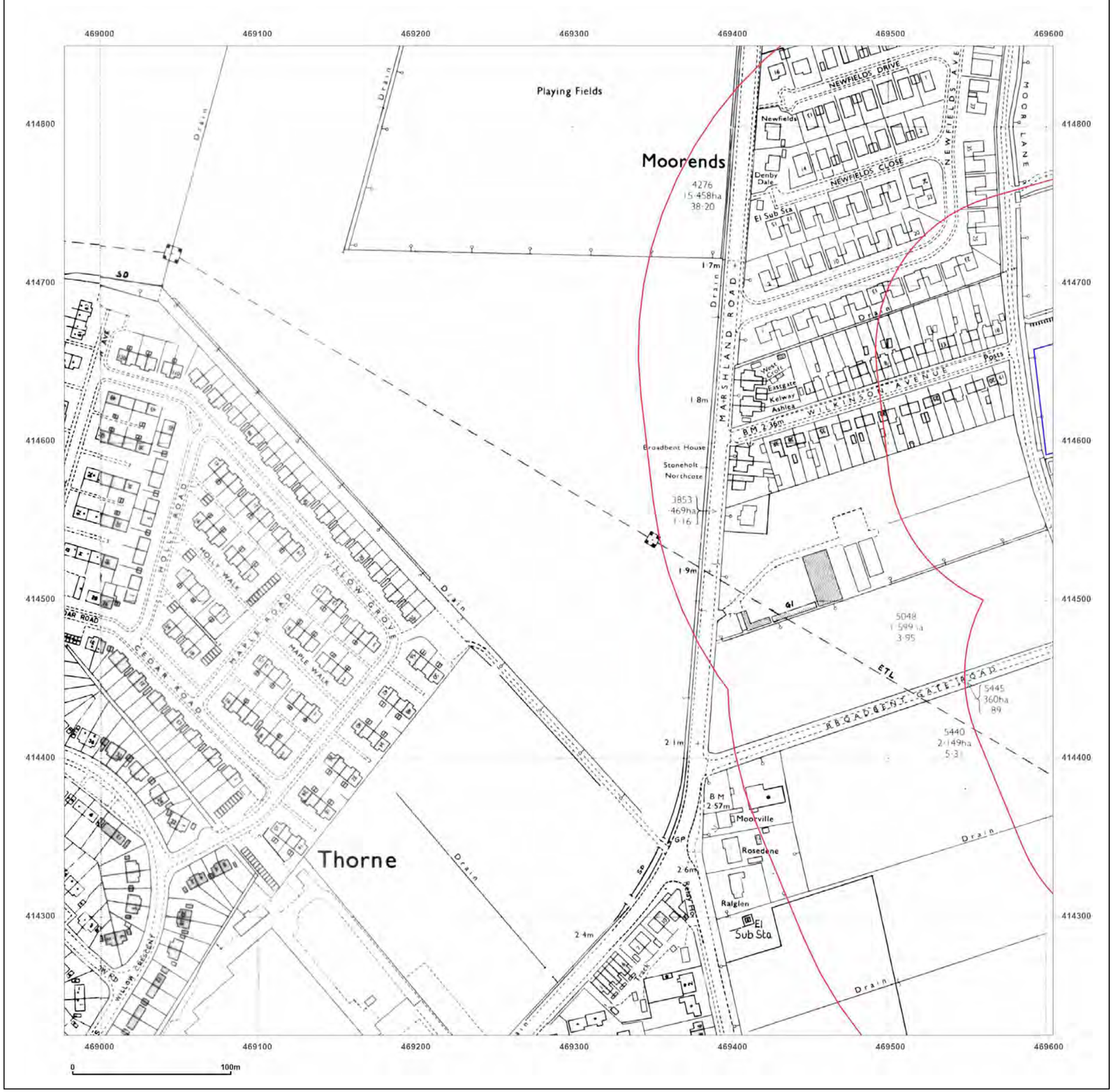
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_10
Grid Ref: 469290, 414537

Map Name: National Grid

Map date: **1989-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1964
Revised 1989
Edition N/A
Copyright 1989
Levelled 1964

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_2_10
Grid Ref: 469290, 414537

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

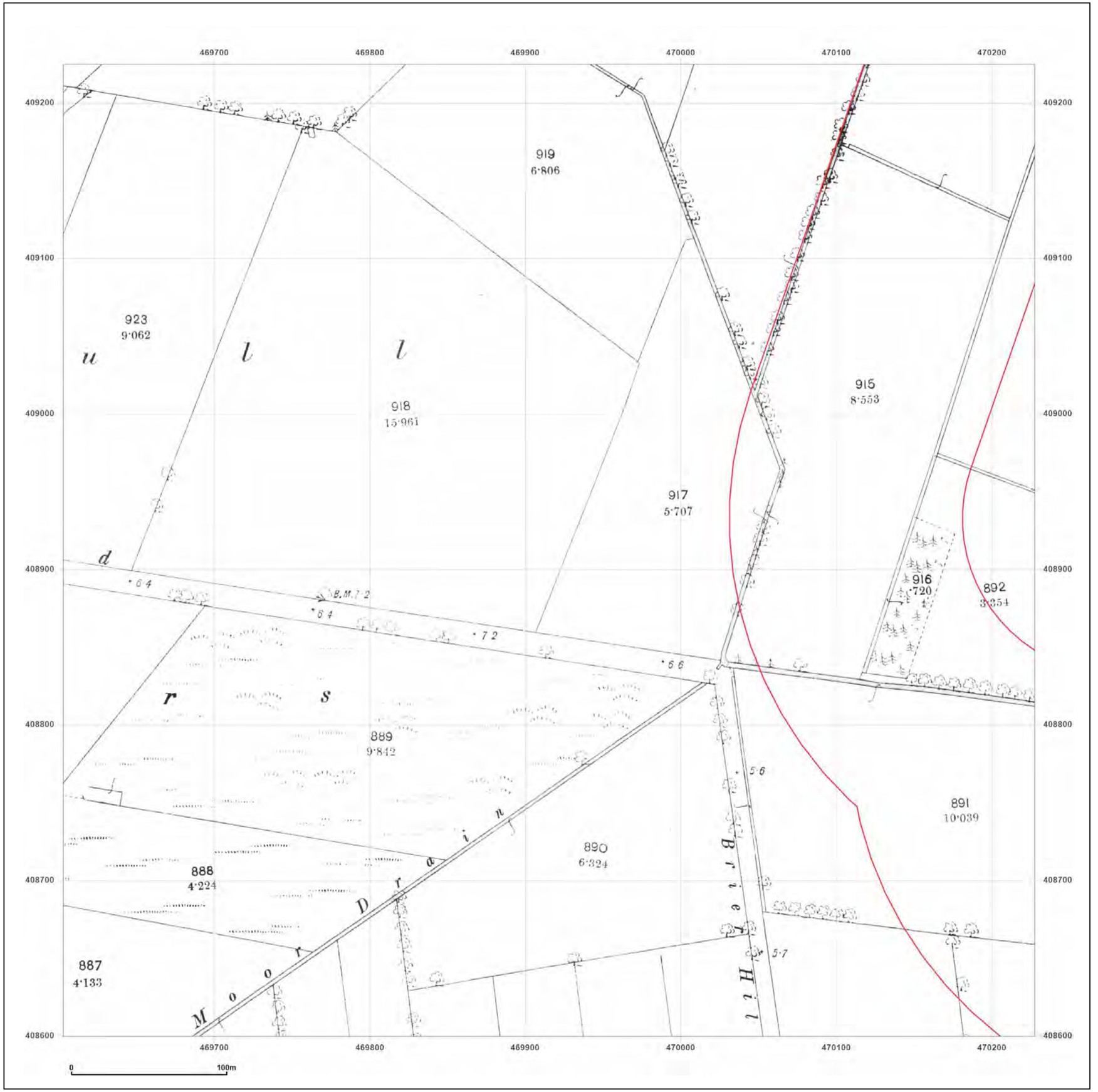
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_1
Grid Ref: 469915, 408912

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

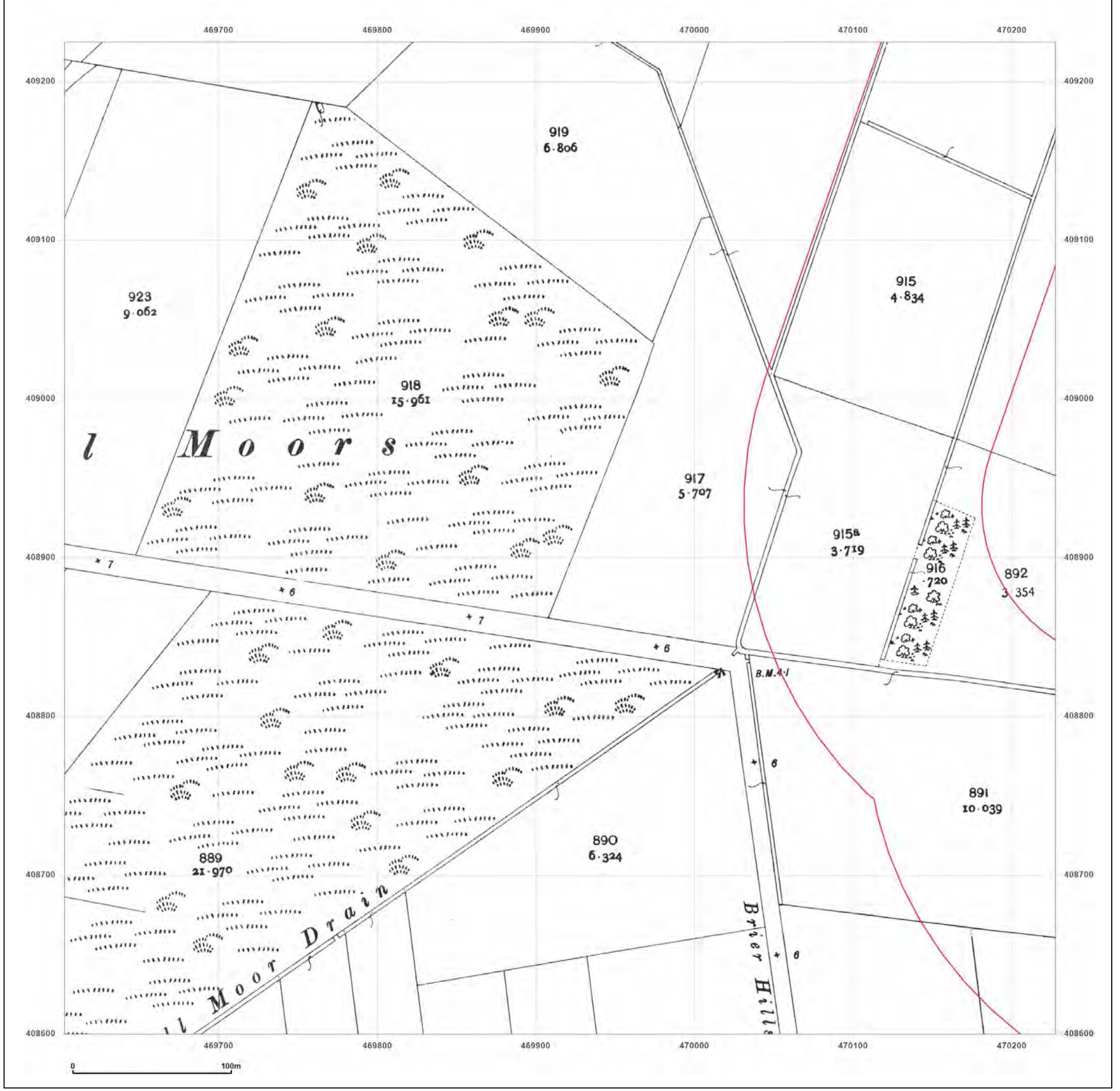
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_1
Grid Ref: 469915, 408912

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

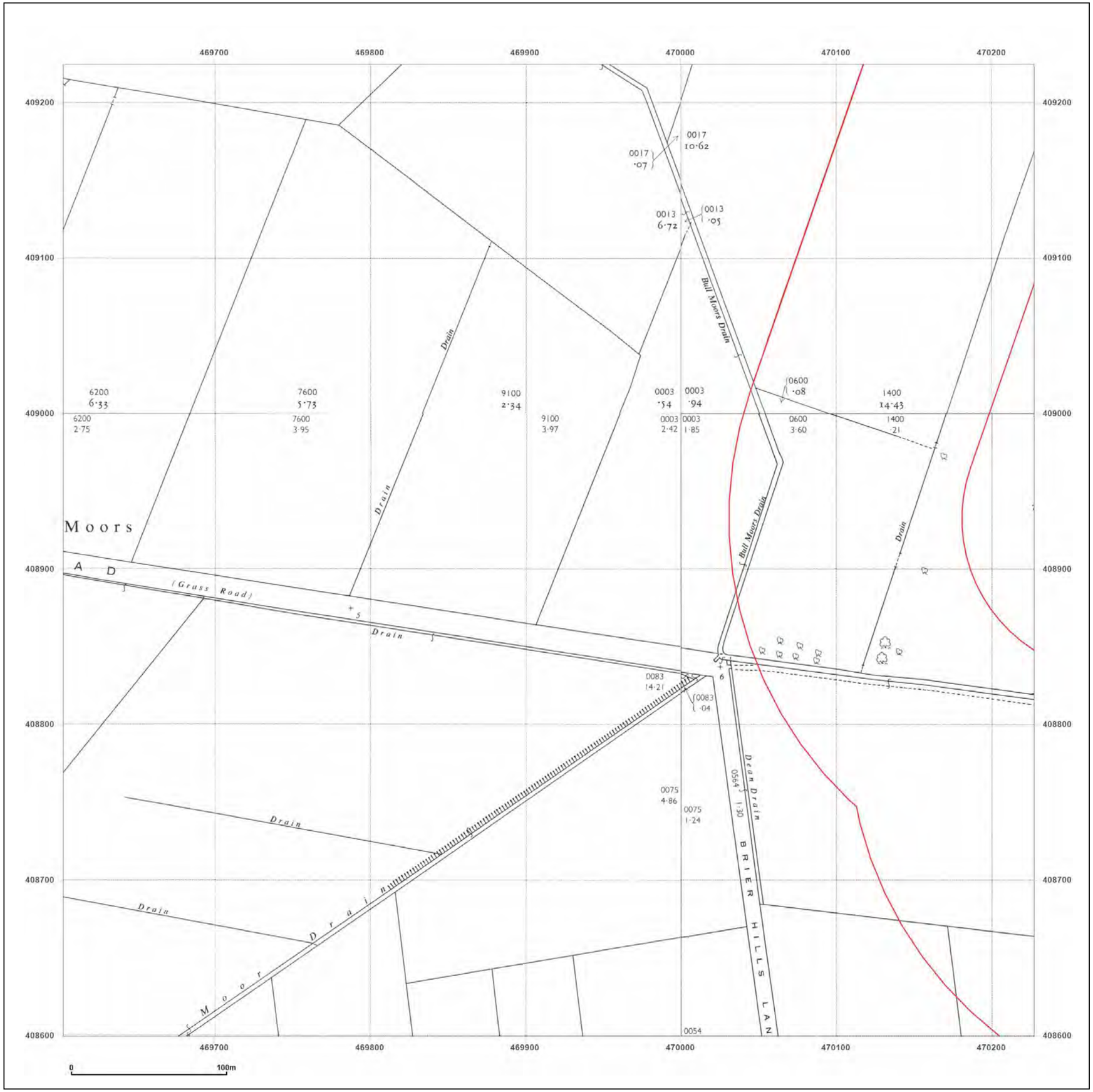
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_1
Grid Ref: 469915, 408912

Map Name: National Grid

Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1960

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1960

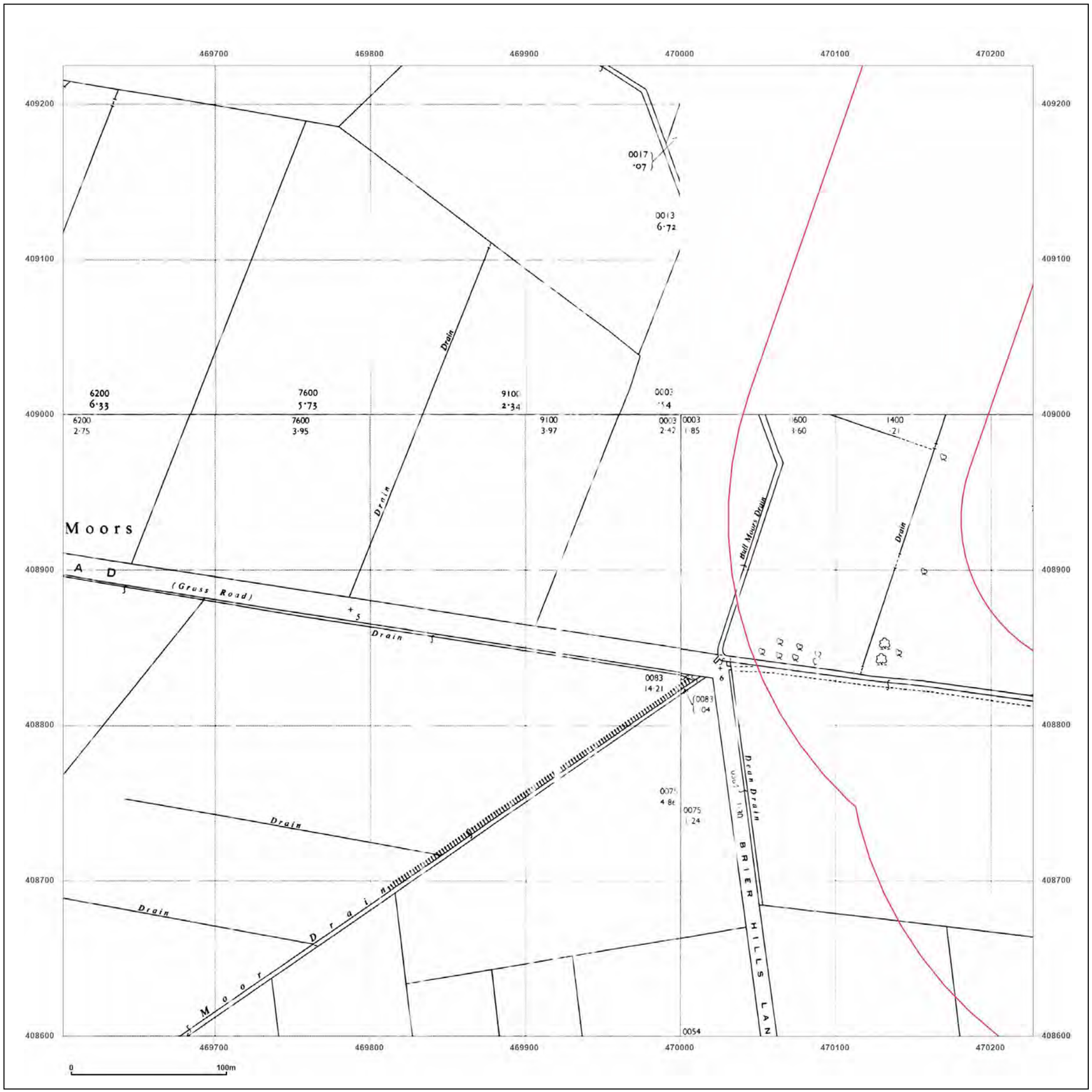
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_1
Grid Ref: 469915, 408912

Map Name: National Grid

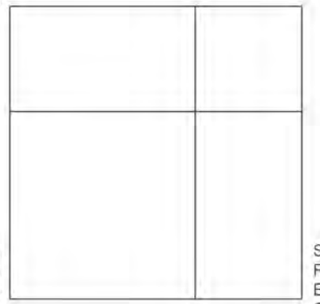
Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



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

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

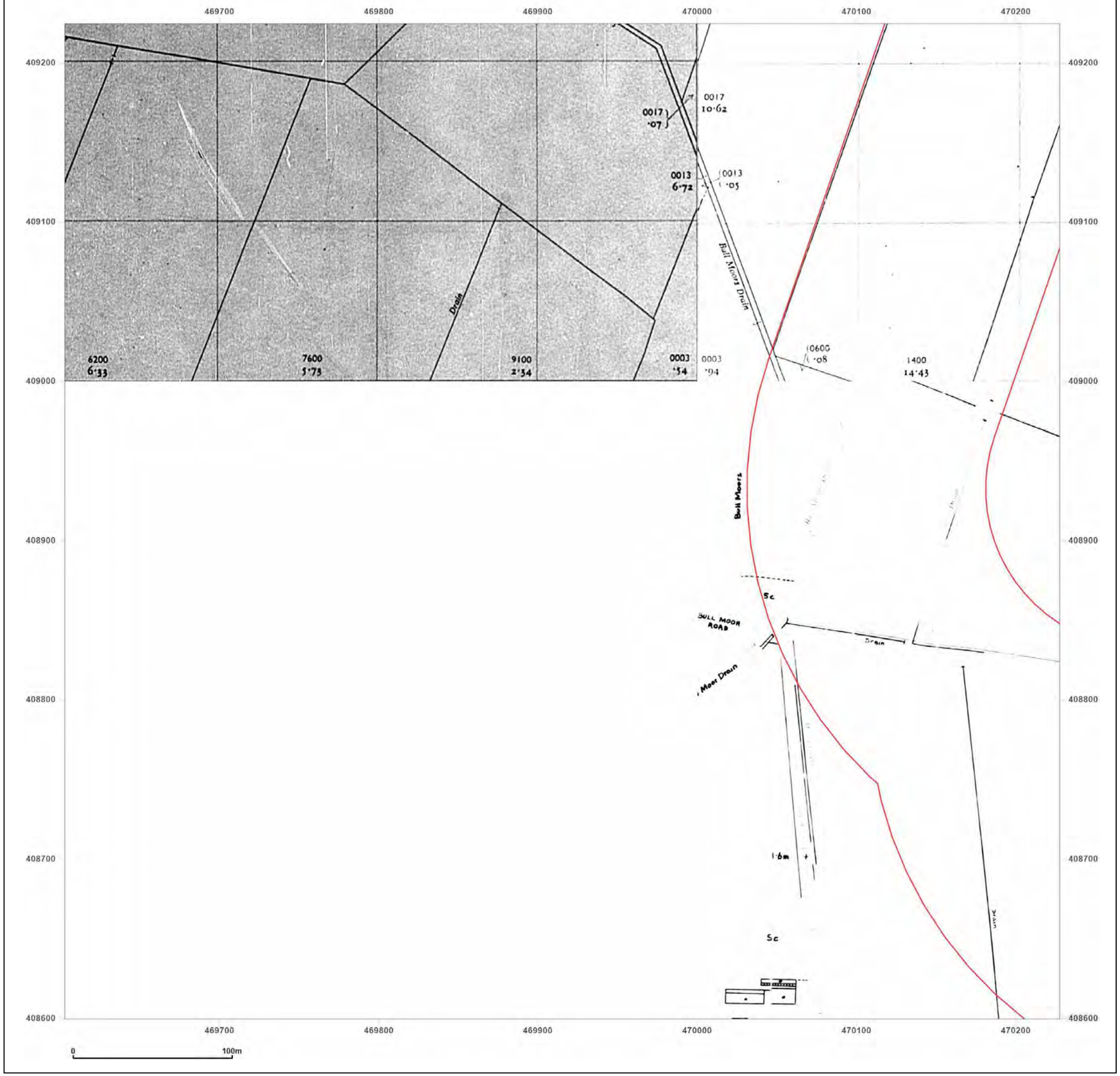
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_1
Grid Ref: 469915, 408912

Map Name: National Grid

Map date: **1978-1981**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled N/A

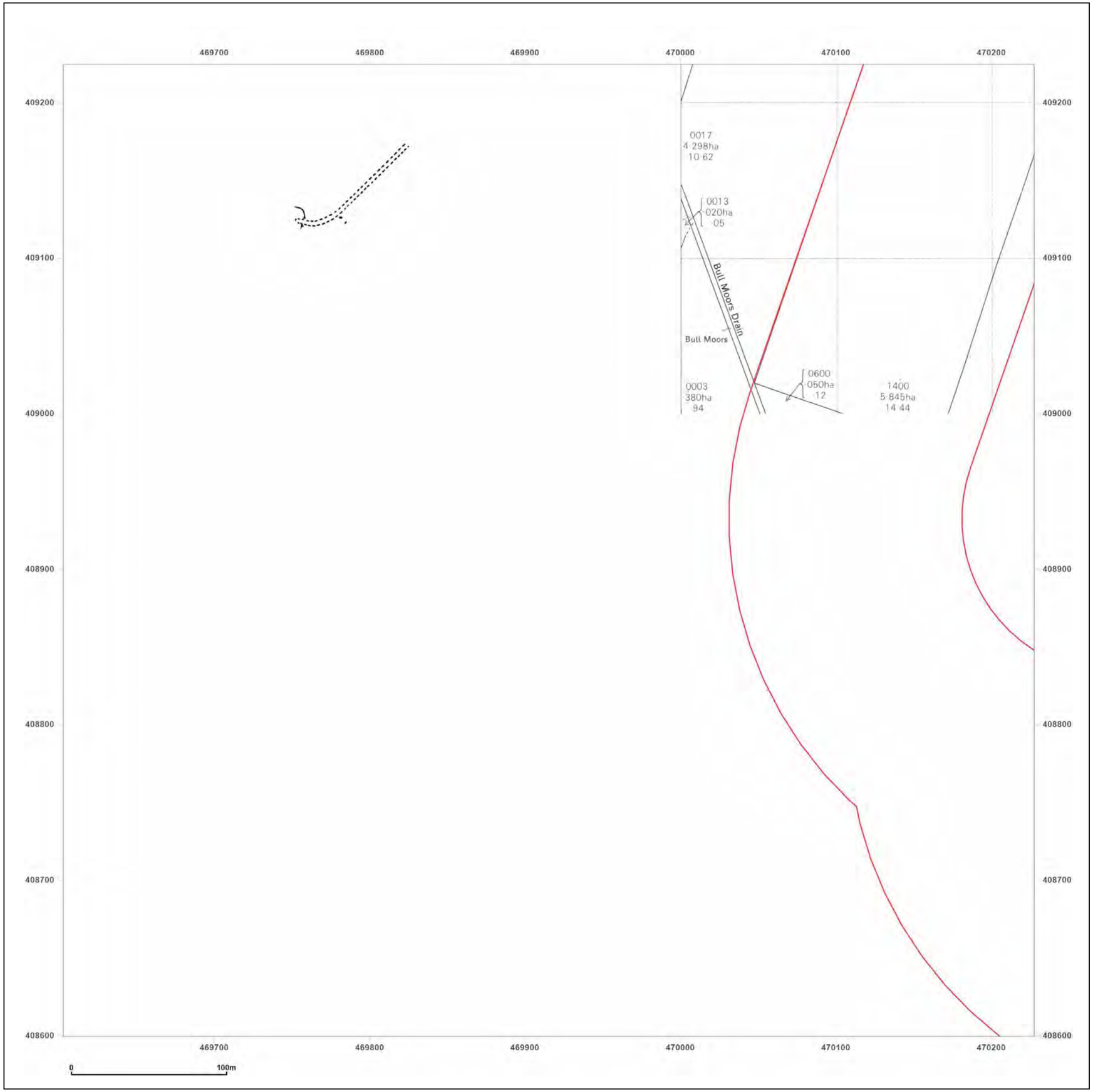
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_1
Grid Ref: 469915, 408912

Map Name: National Grid

Map date: **1984-1985**

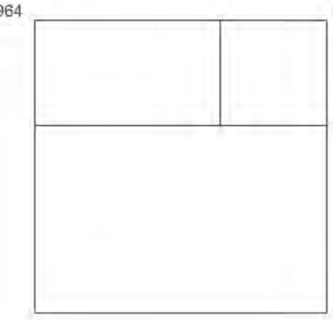
Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled 1964

Surveyed 1984
Revised 1984
Edition N/A
Copyright 1985
Levelled 1964



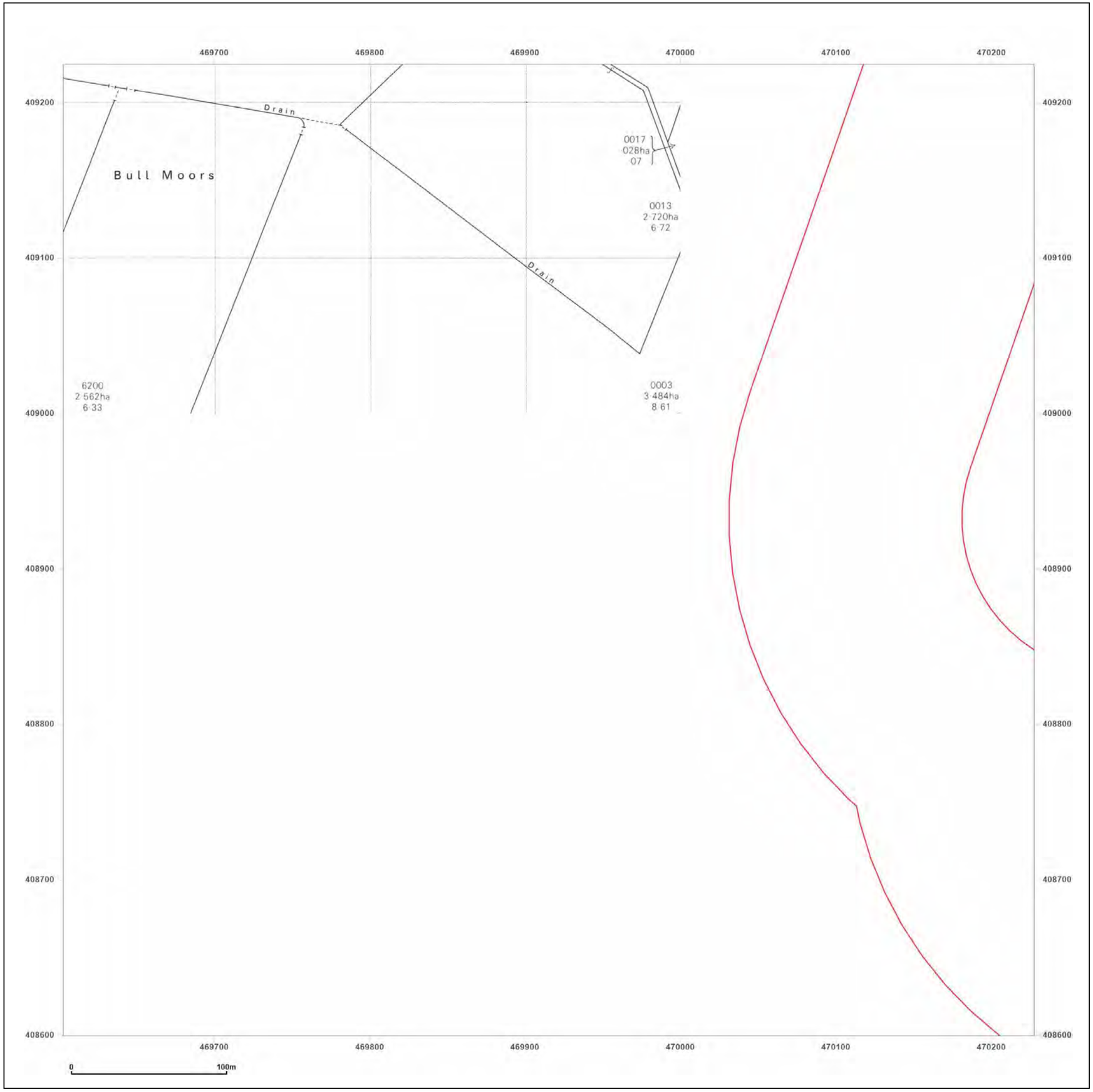
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_1
Grid Ref: 469915, 408912

Map Name: National Grid

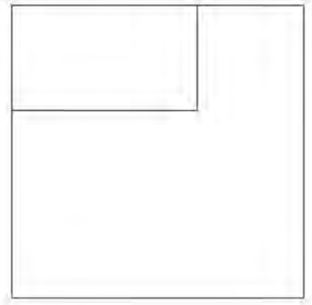
Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1984
Revised 1984
Edition N/A
Copyright 1985
Levelled 1984



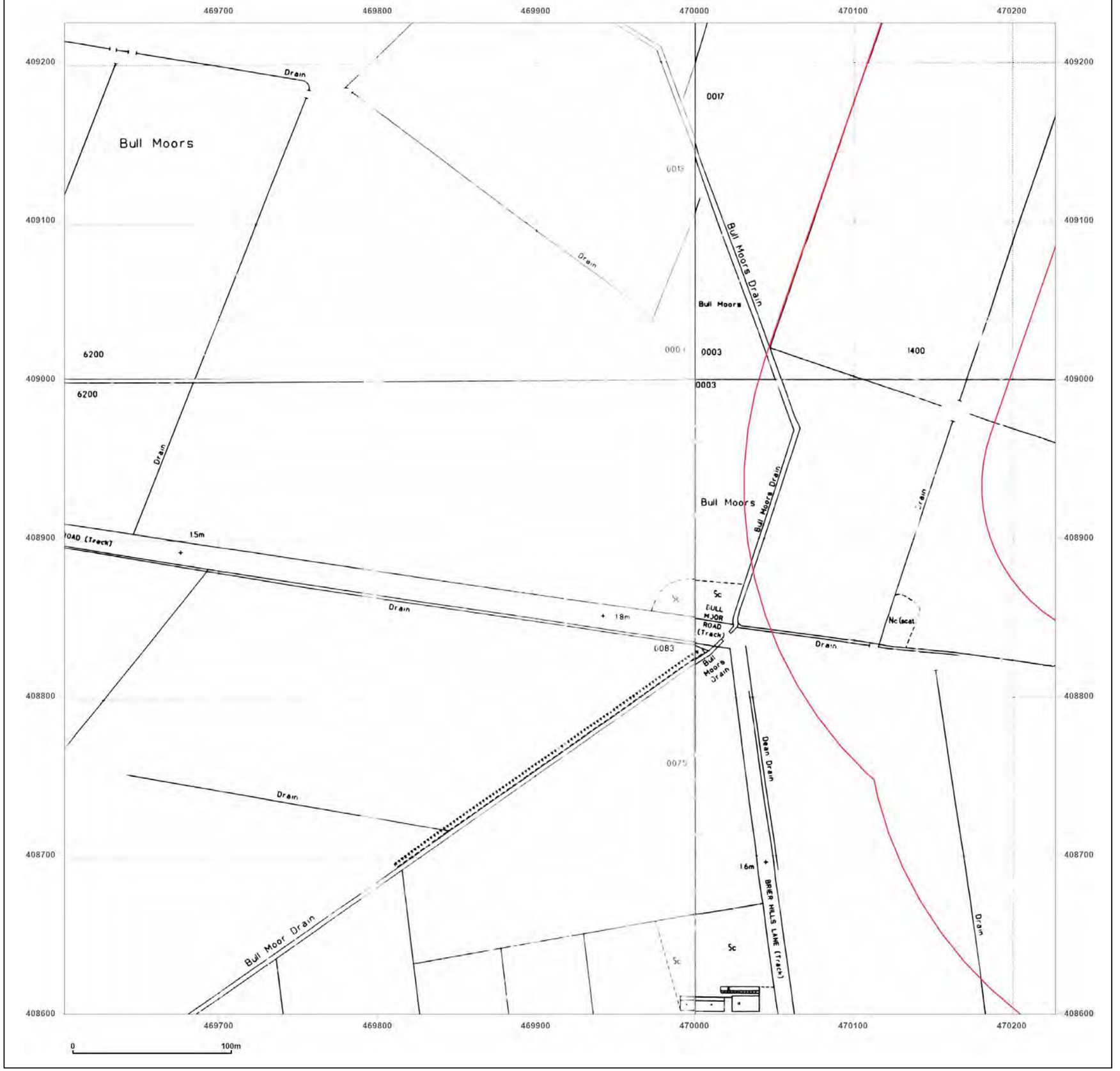
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_1
Grid Ref: 469915, 408912

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

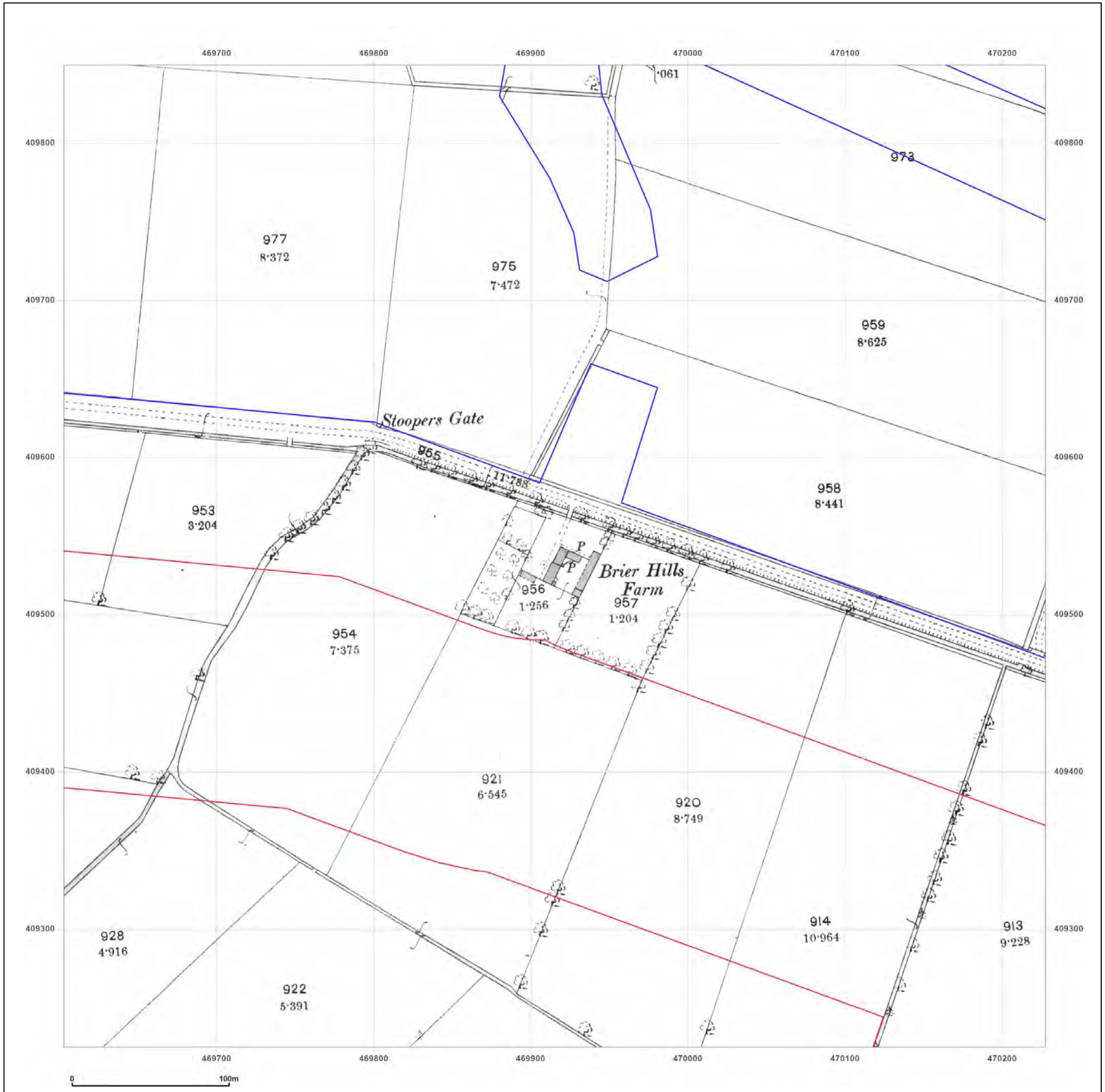
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_2
Grid Ref: 469915, 409537

Map Name: County Series
Map date: **1892**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

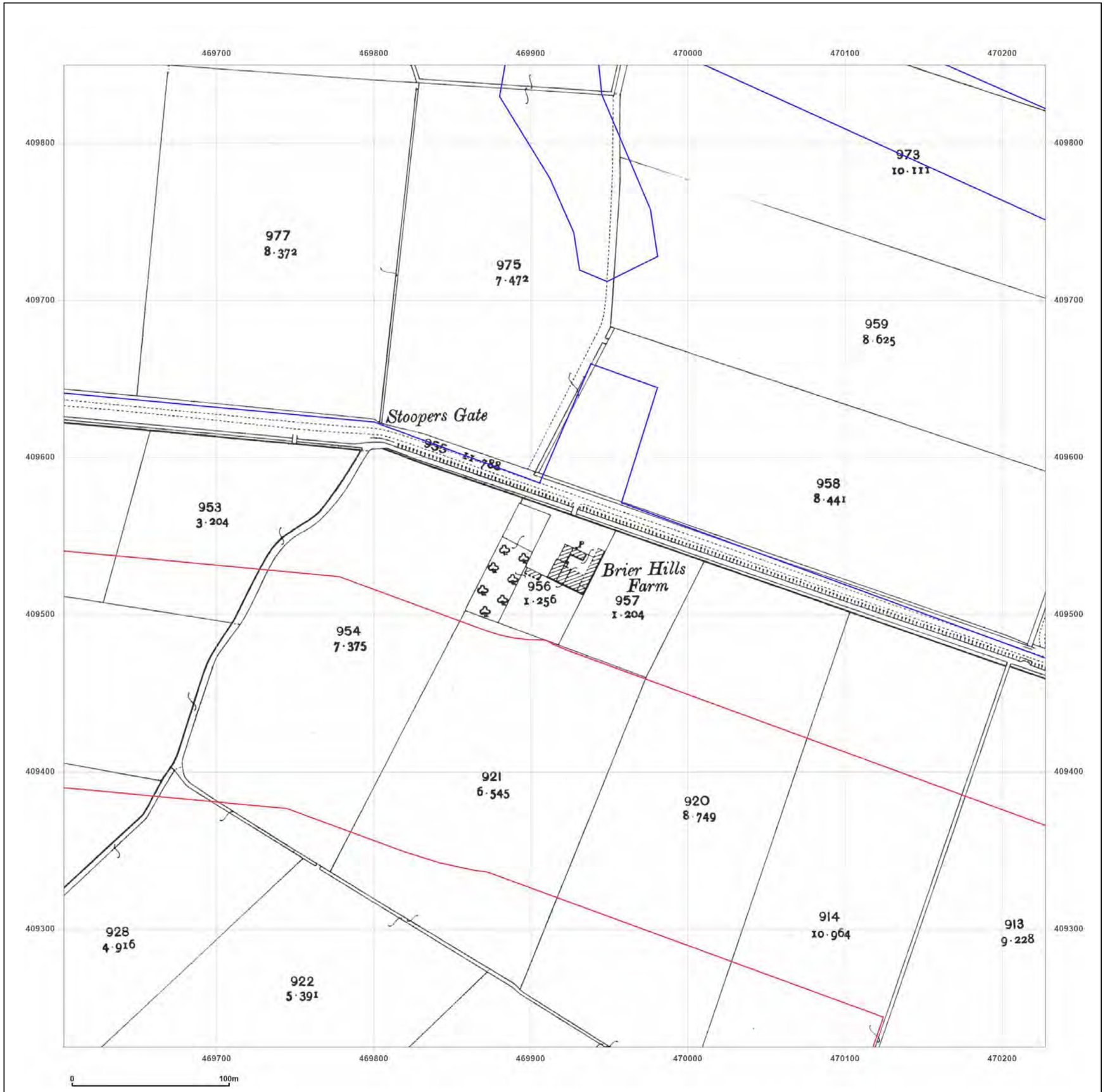
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_2
Grid Ref: 469915, 409537

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



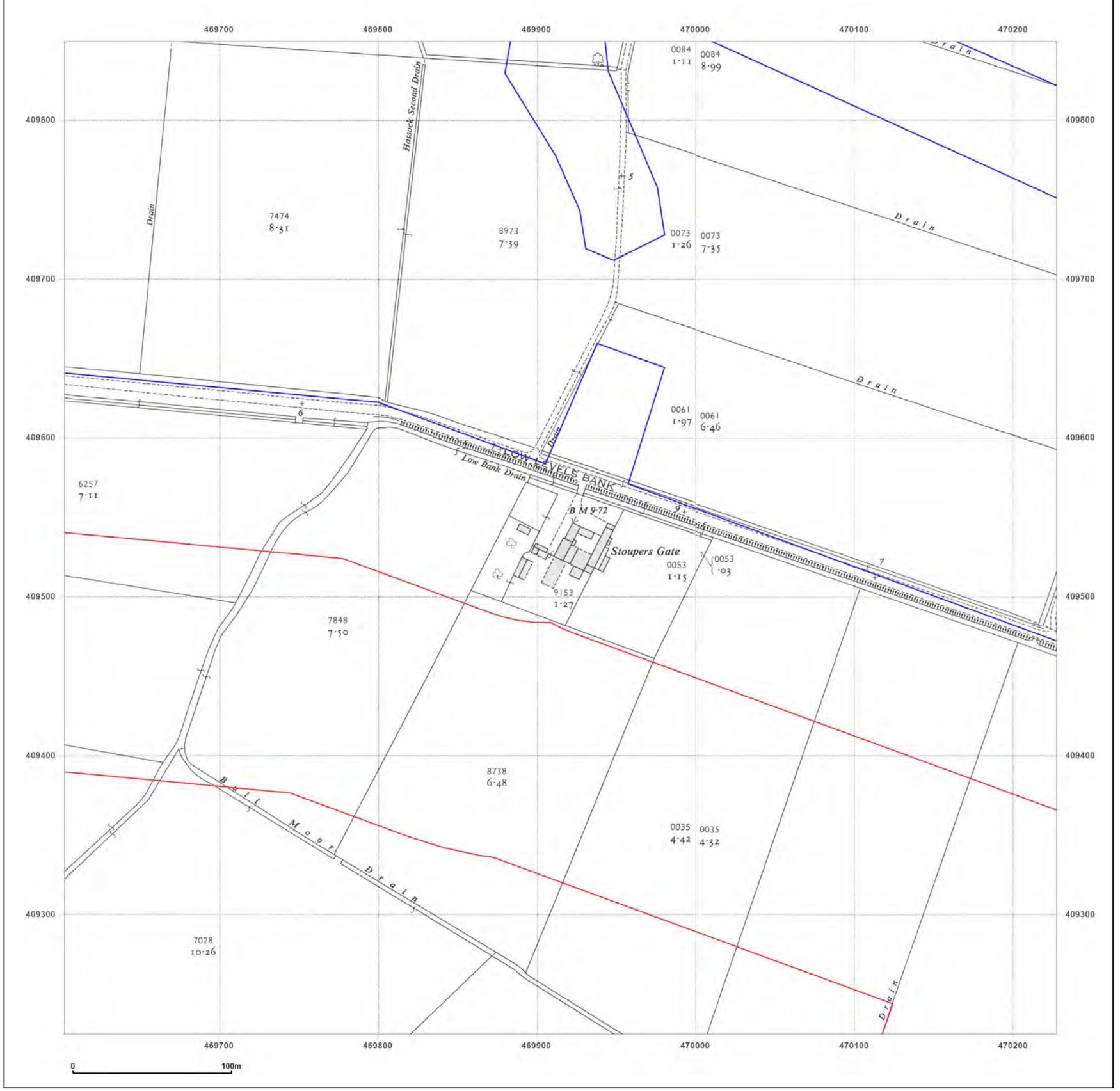
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_2
Grid Ref: 469915, 409537

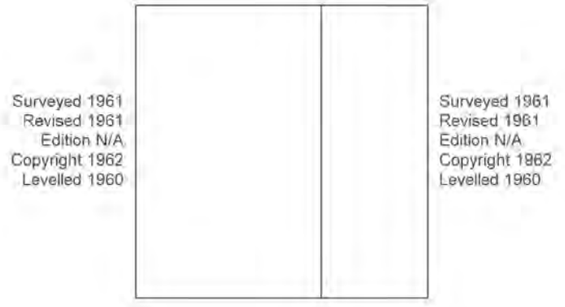
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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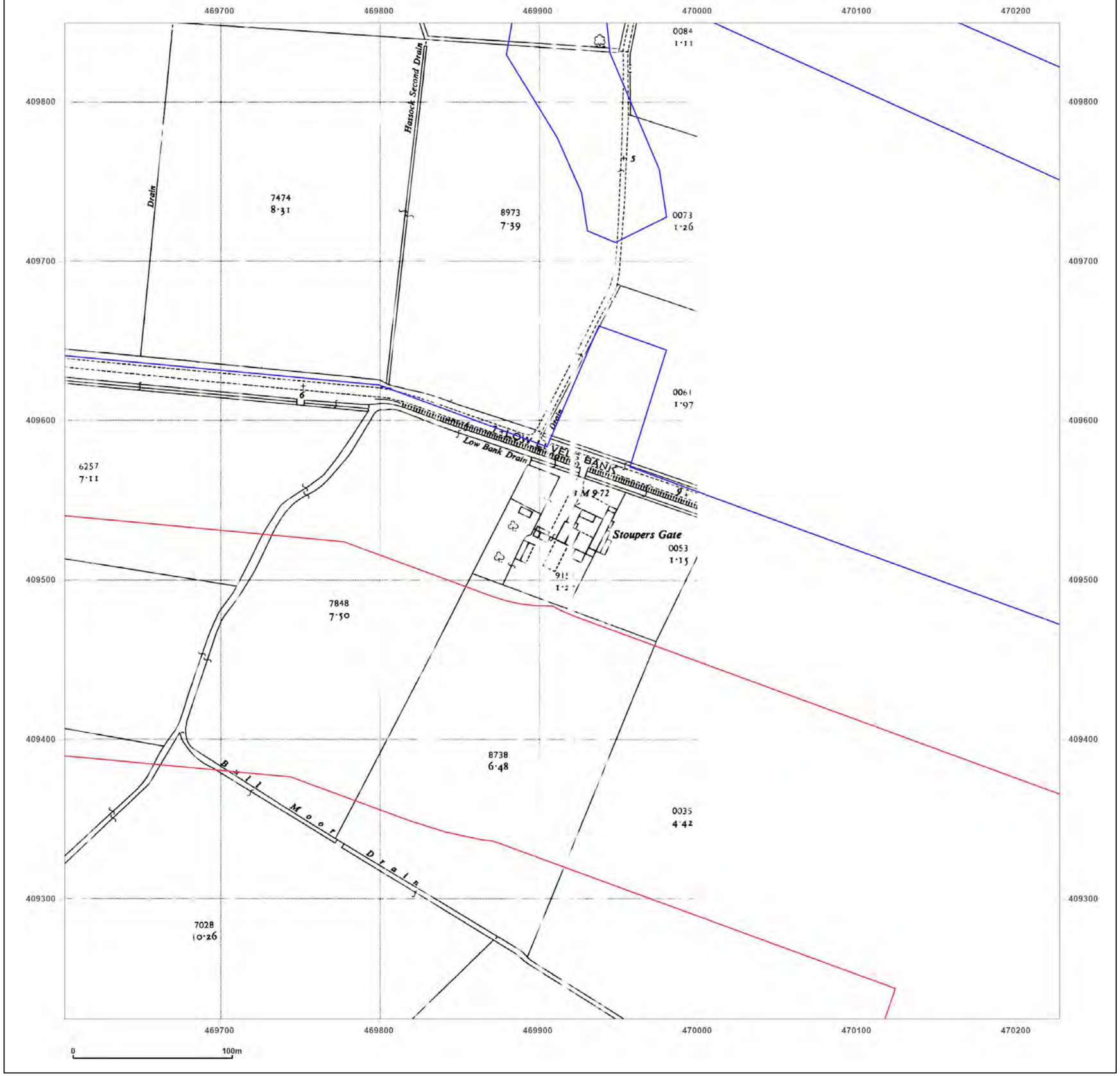
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_2
Grid Ref: 469915, 409537

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

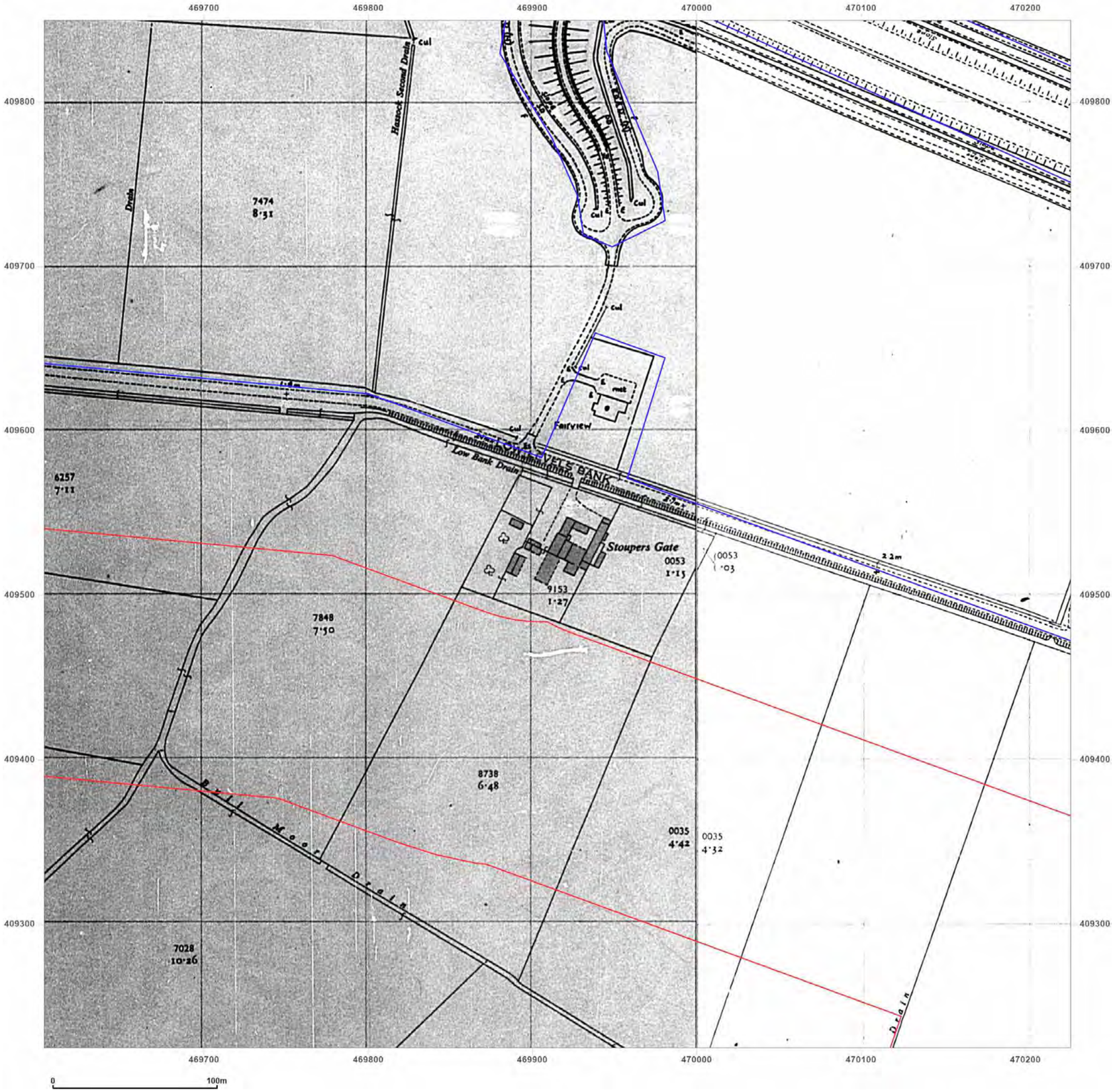
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Production date: 03 March 2023

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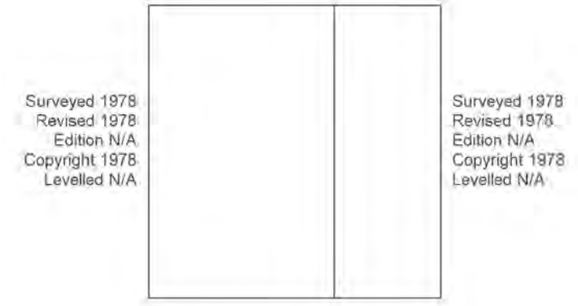
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_2
Grid Ref: 469915, 409537

Map Name: National Grid
Map date: **1978**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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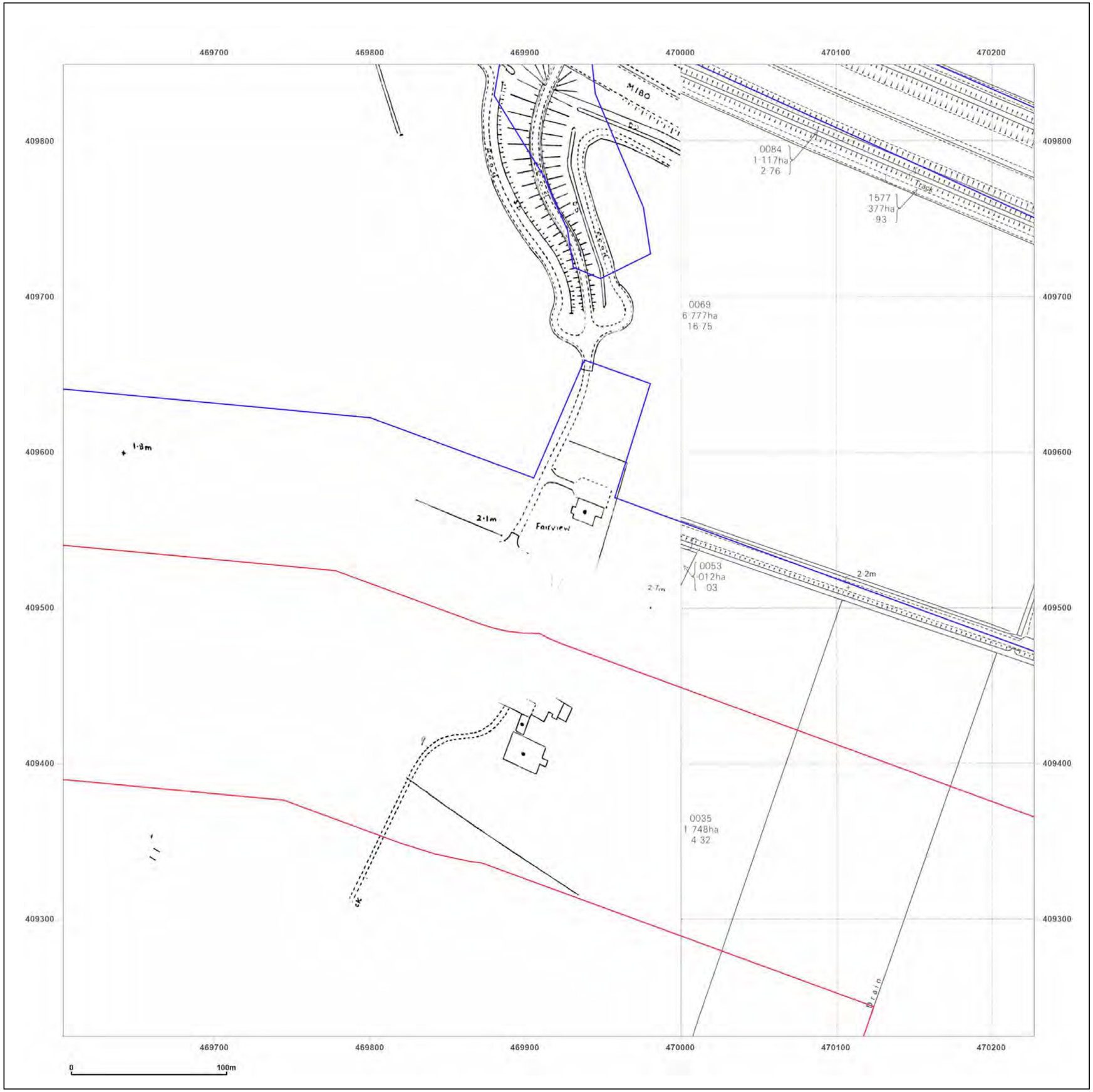
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_2
Grid Ref: 469915, 409537

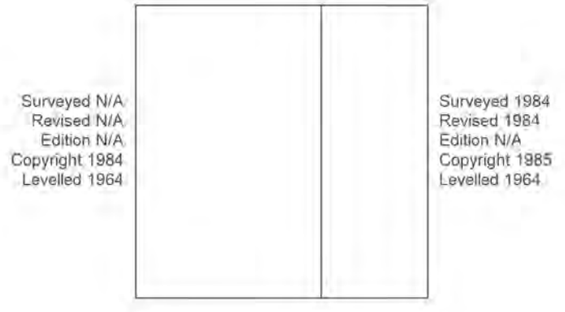
Map Name: National Grid

Map date: **1984-1985**

Scale: 1:2,500

Printed at: 1:2,500

N
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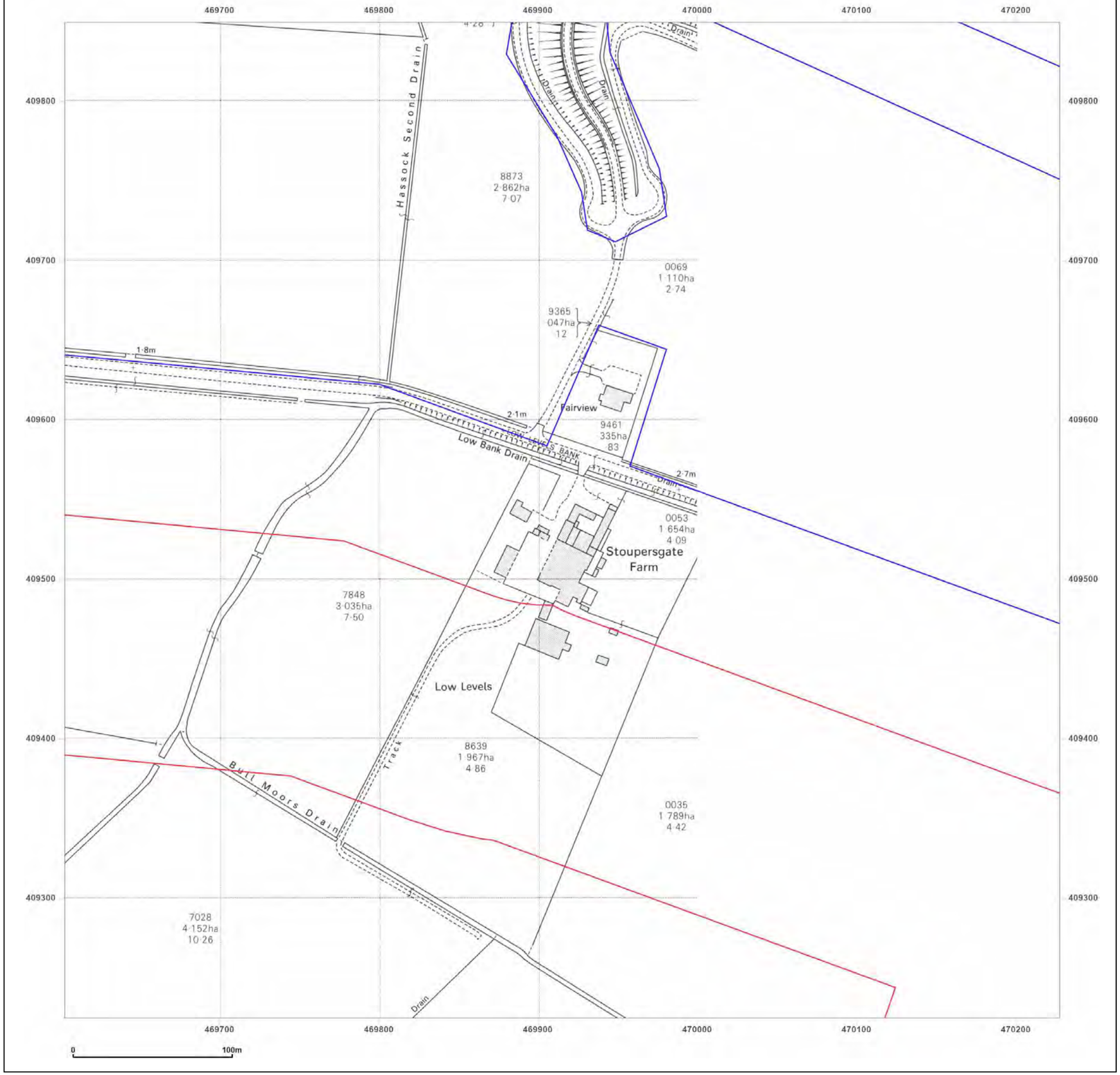
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_2
Grid Ref: 469915, 409537

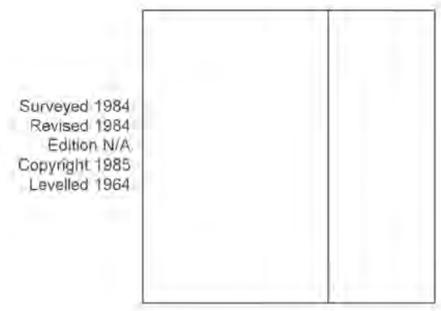
Map Name: National Grid

Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_2
Grid Ref: 469915, 409537

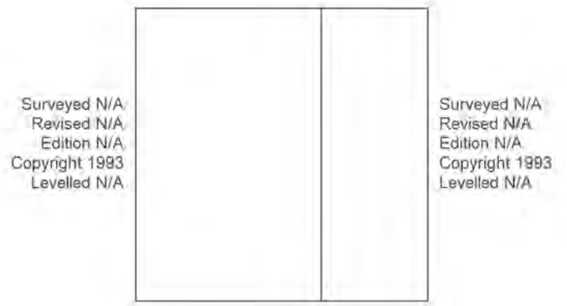
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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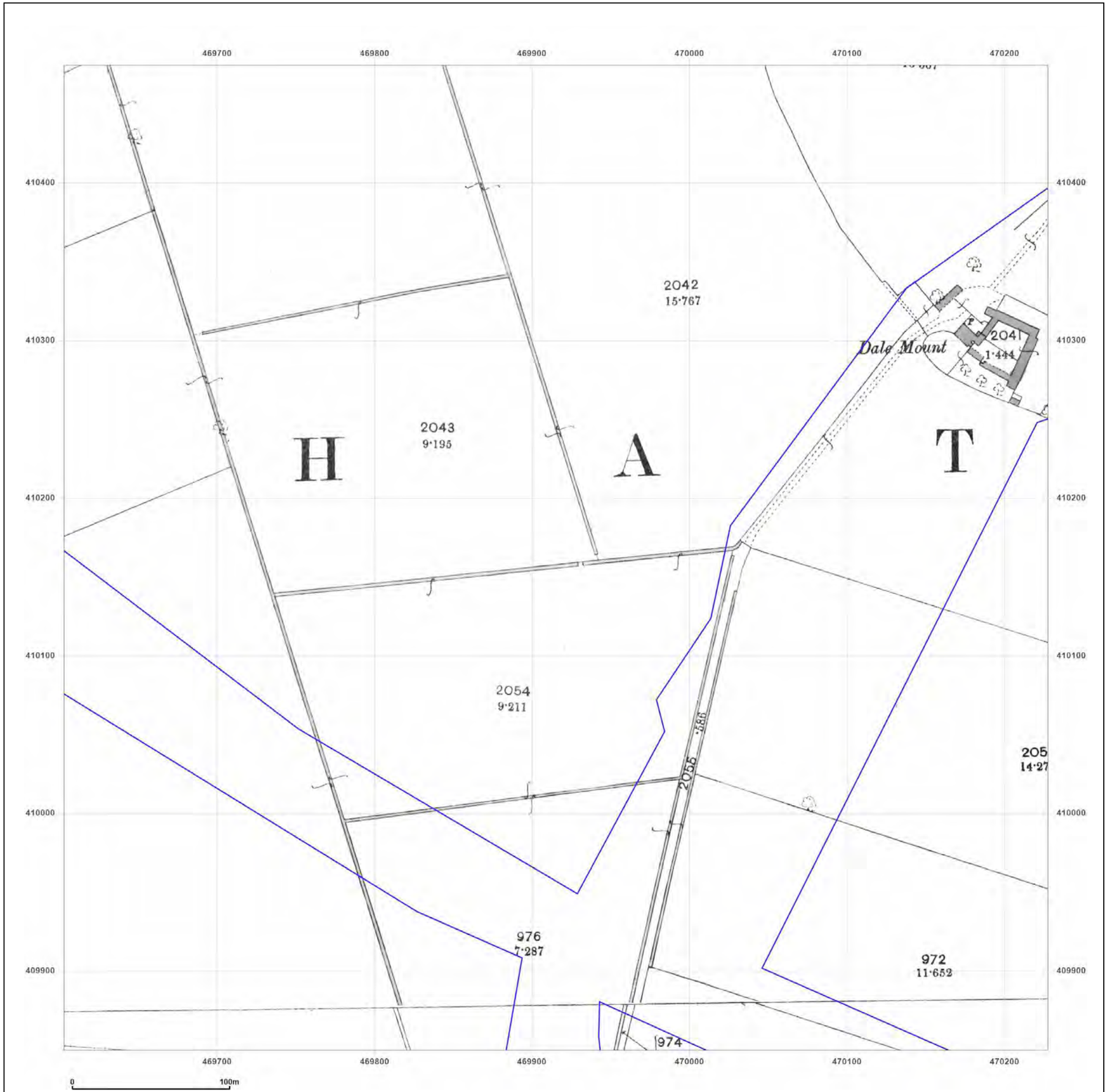
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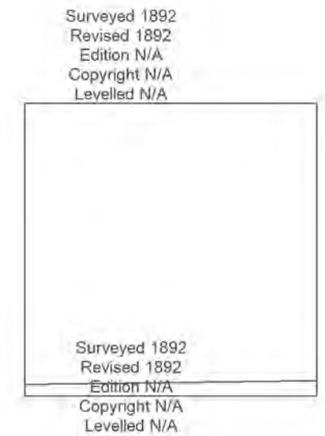
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_3
Grid Ref: 469915, 410162

Map Name: County Series
Map date: **1892**
Scale: 1:2,500
Printed at: 1:2,500

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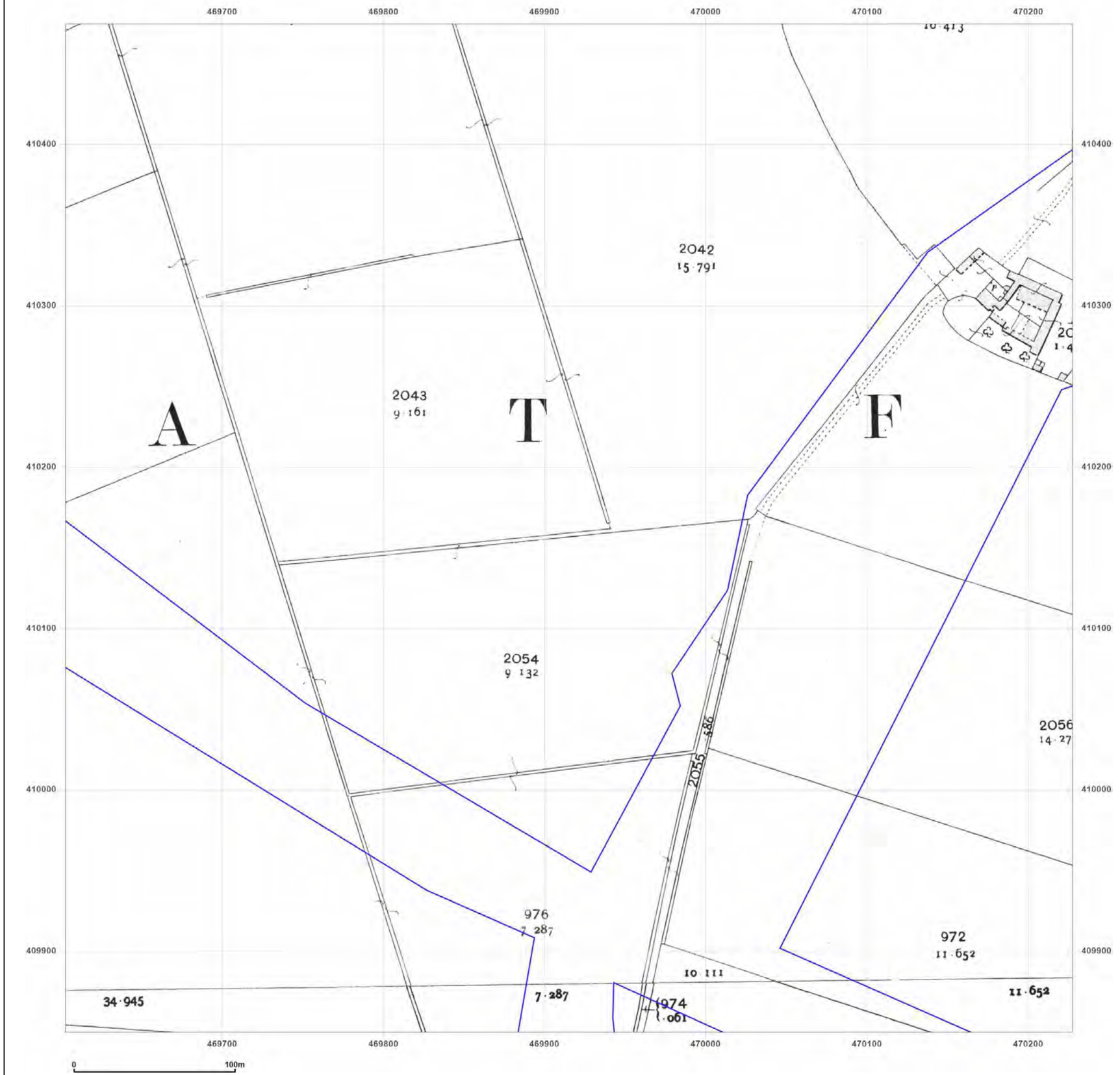
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_3
Grid Ref: 469915, 410162

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

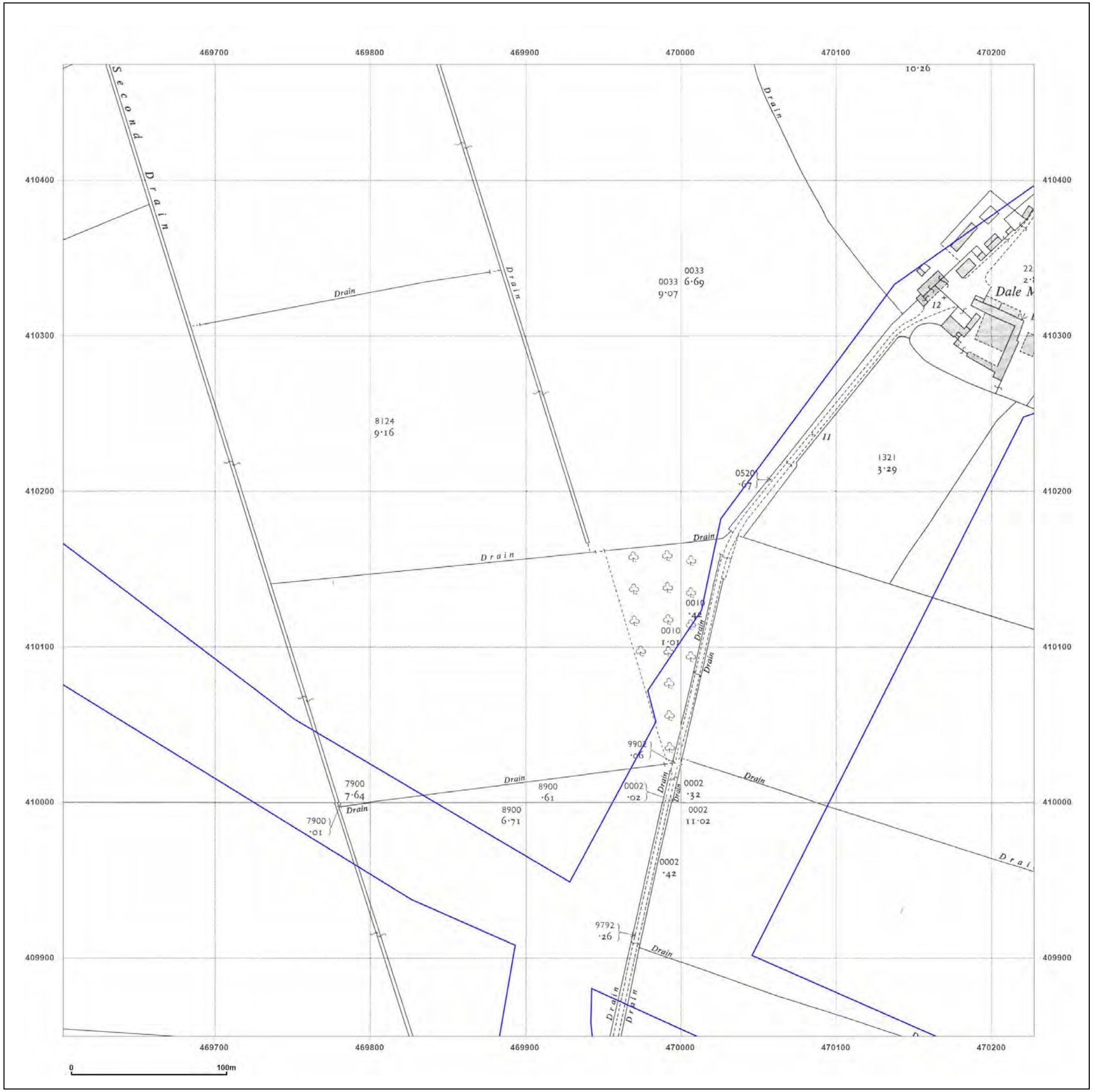
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_3
Grid Ref: 469915, 410162

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

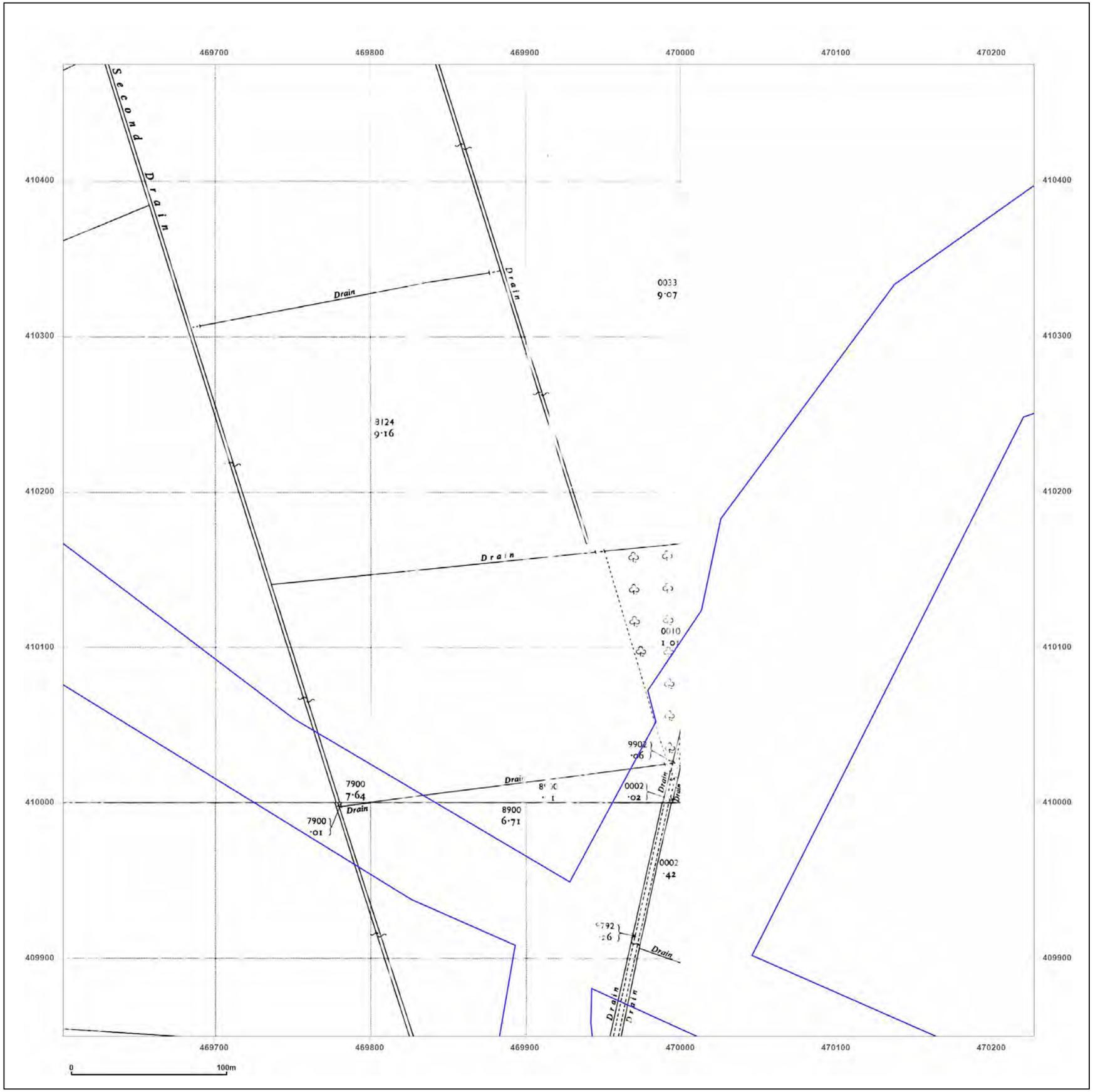
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_3
Grid Ref: 469915, 410162

Map Name: National Grid

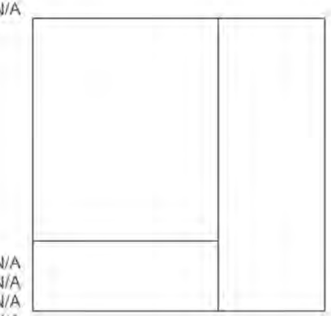
Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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

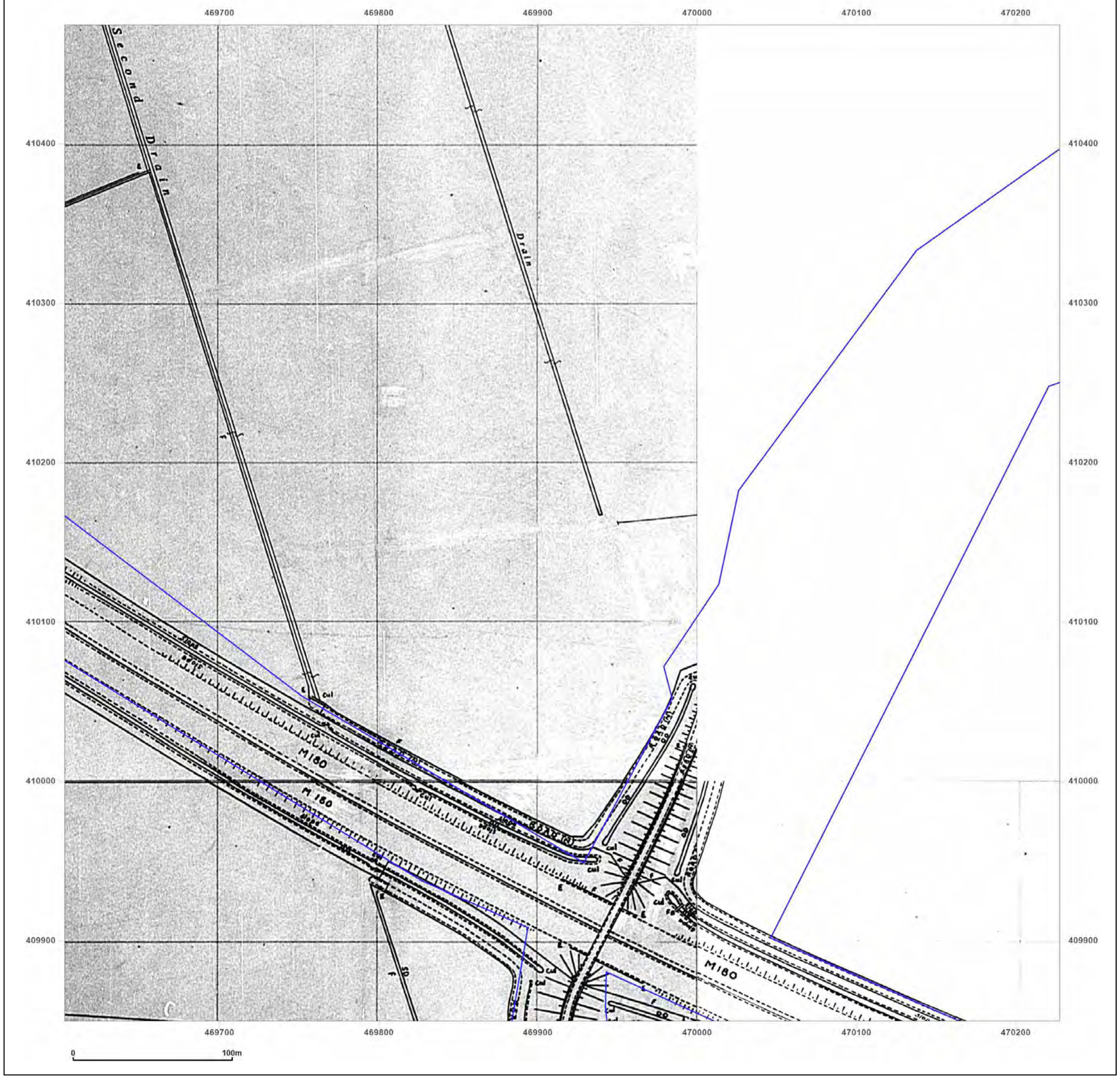
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_3
Grid Ref: 469915, 410162

Map Name: National Grid

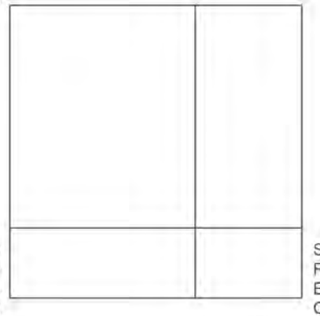
Map date: **1978**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A



Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

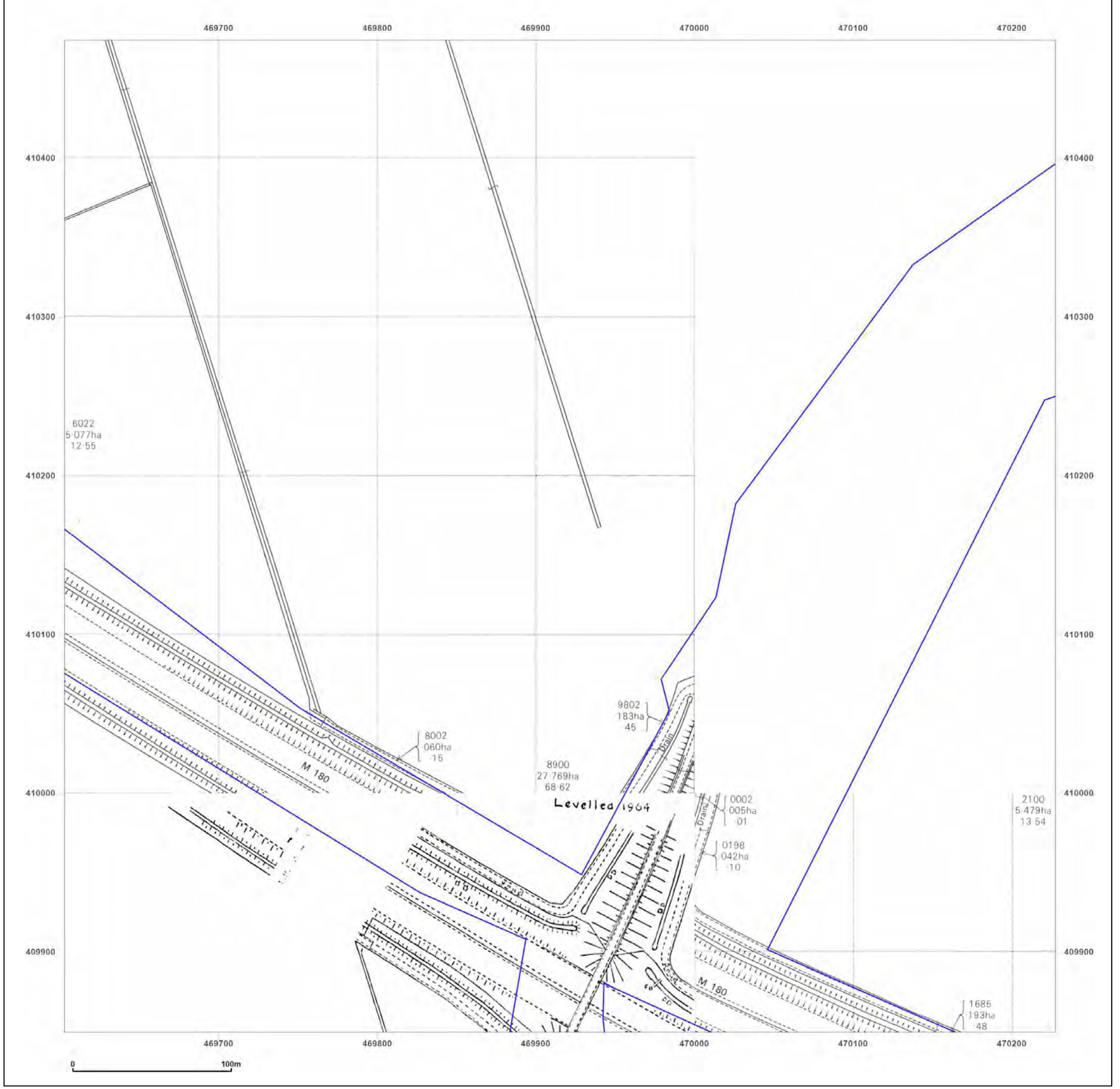
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_3
Grid Ref: 469915, 410162

Map Name: National Grid

Map date: **1984-1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1985
Revised 1985
Edition N/A
Copyright 1986
Levelled 1964

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled 1964

Surveyed 1984
Revised 1984
Edition N/A
Copyright 1985
Levelled 1964

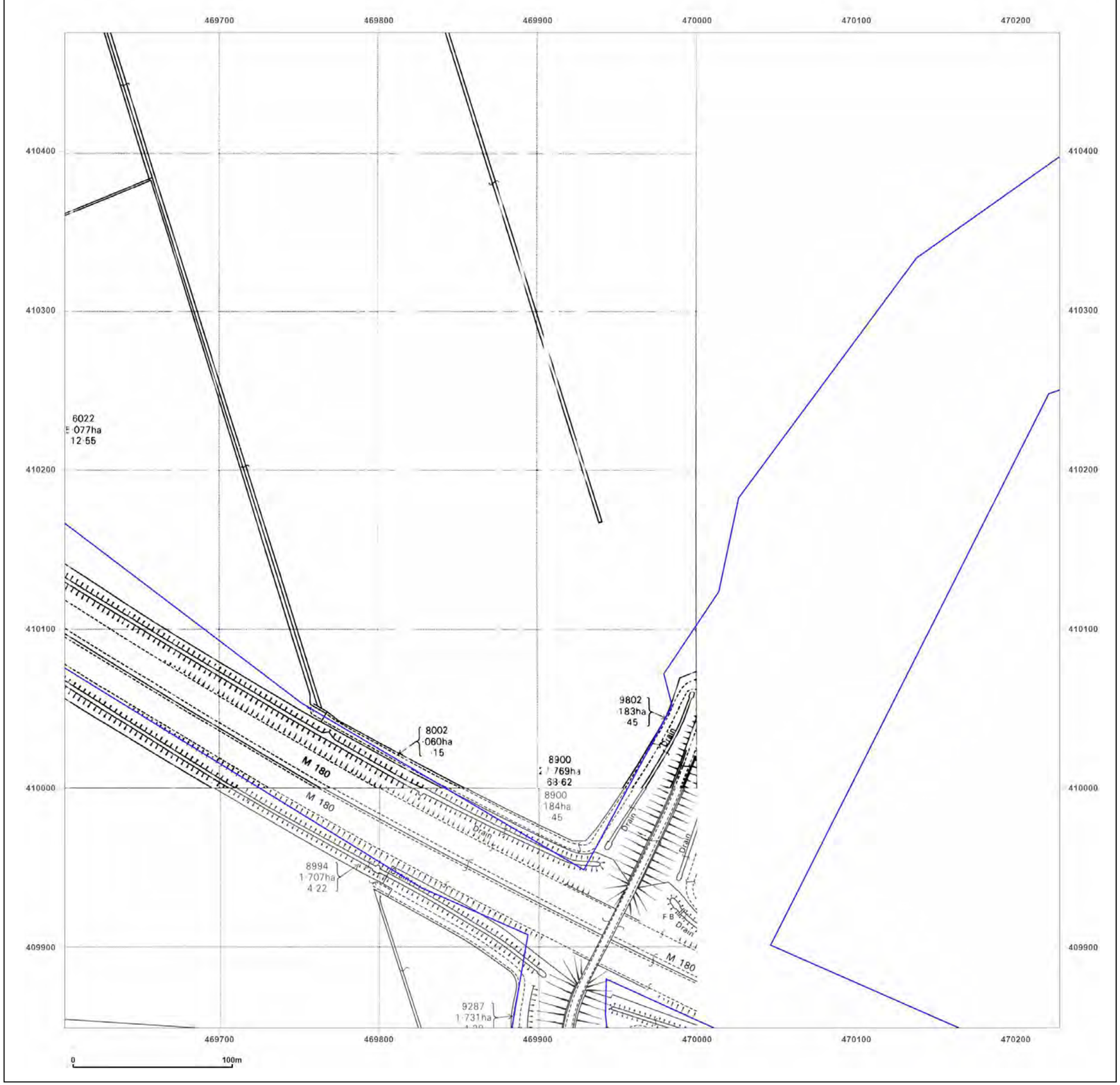
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_3
Grid Ref: 469915, 410162

Map Name: National Grid

Map date: **1985-1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Surveyed 1984
Revised 1984
Edition N/A
Copyright 1985
Levelled 1964

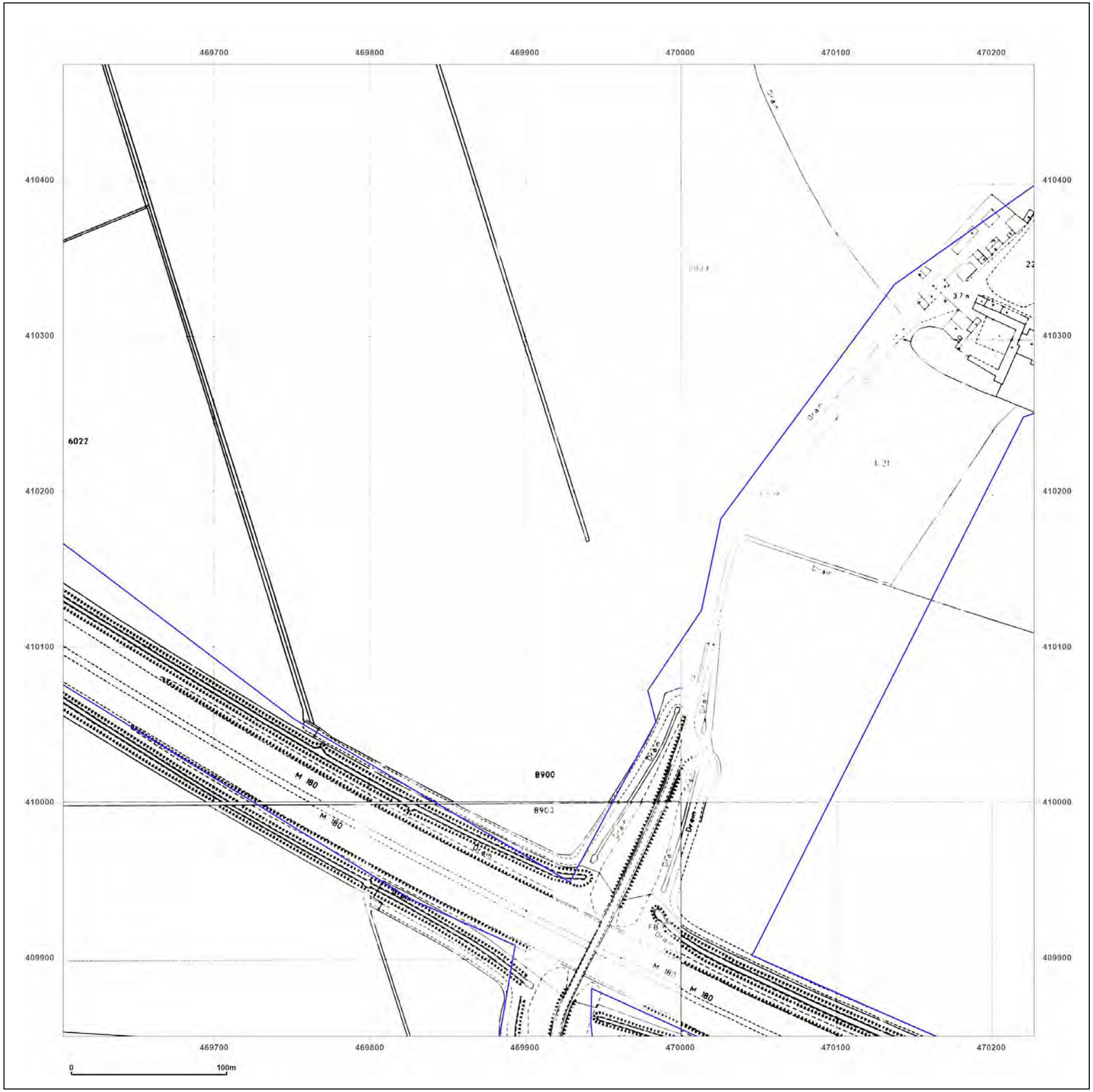
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_3
Grid Ref: 469915, 410162

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

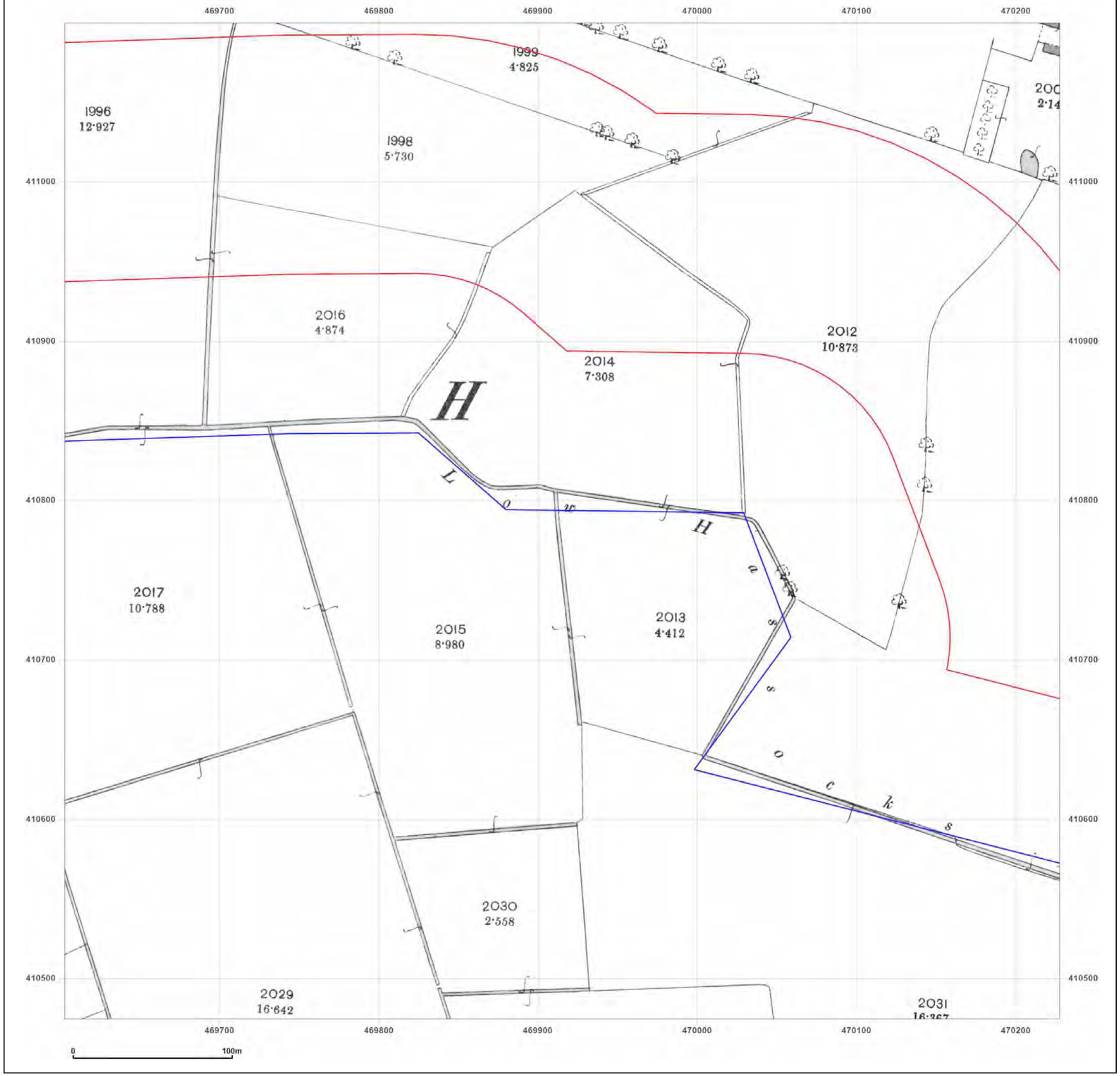
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_4
Grid Ref: 469915, 410787

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

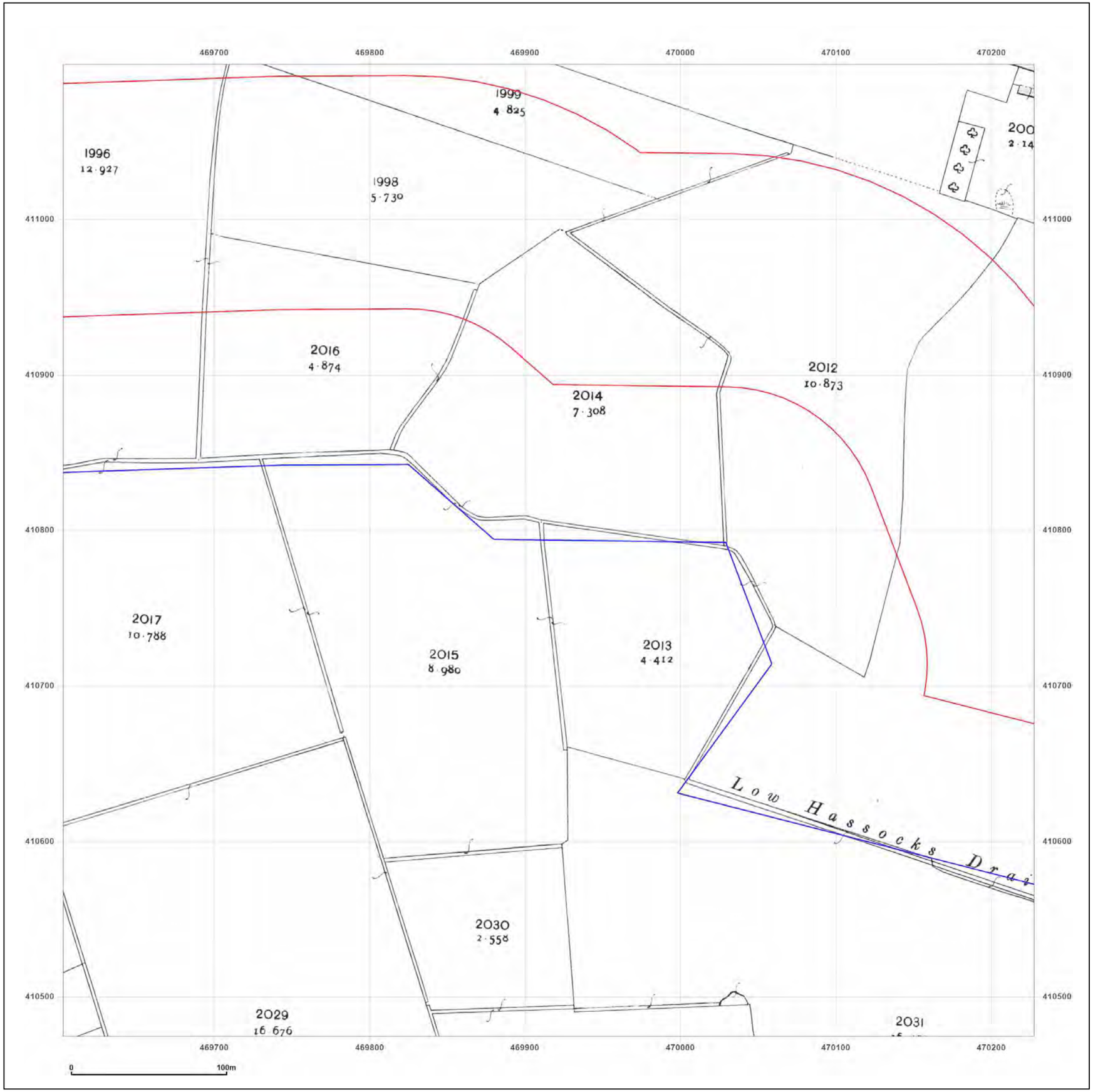
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_4
Grid Ref: 469915, 410787

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

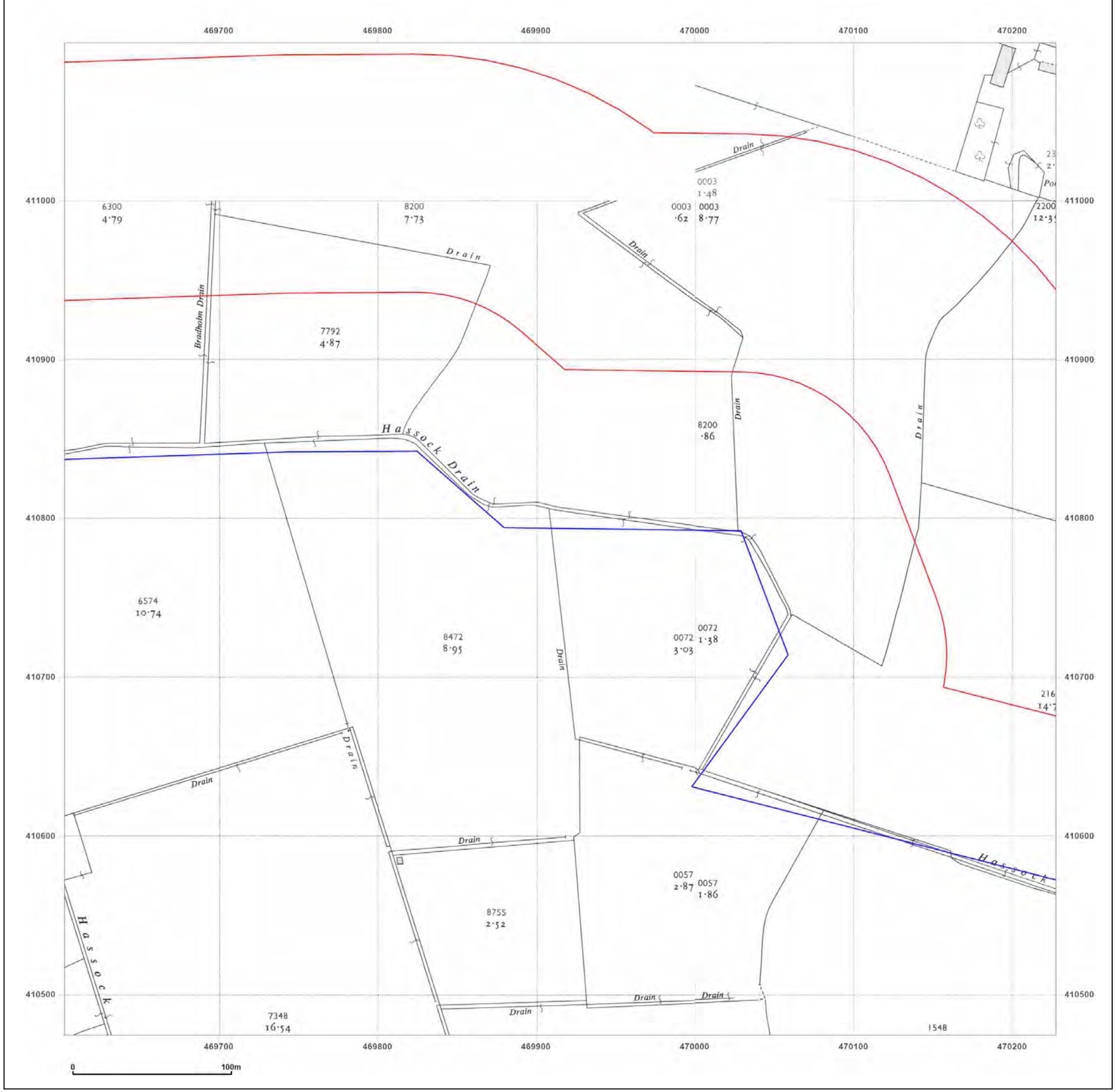
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_4
Grid Ref: 469915, 410787

Map Name: National Grid

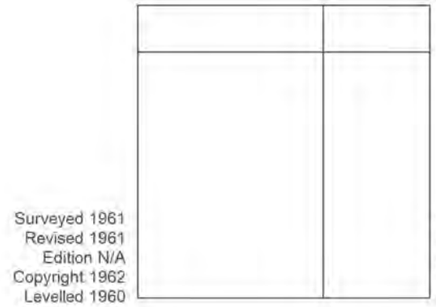
Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960



Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

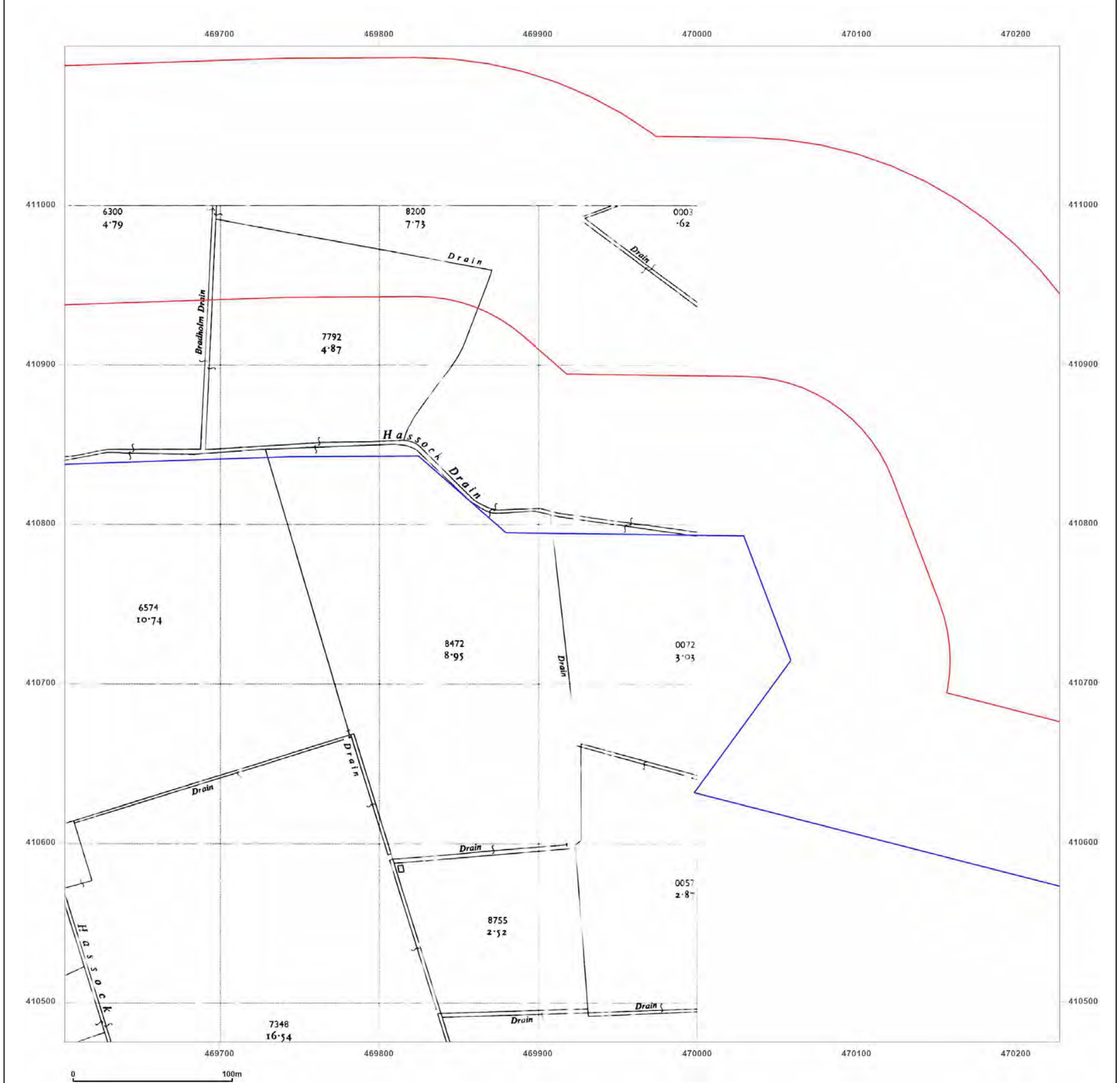
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_4
Grid Ref: 469915, 410787

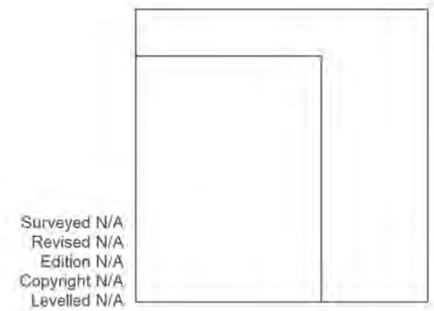
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



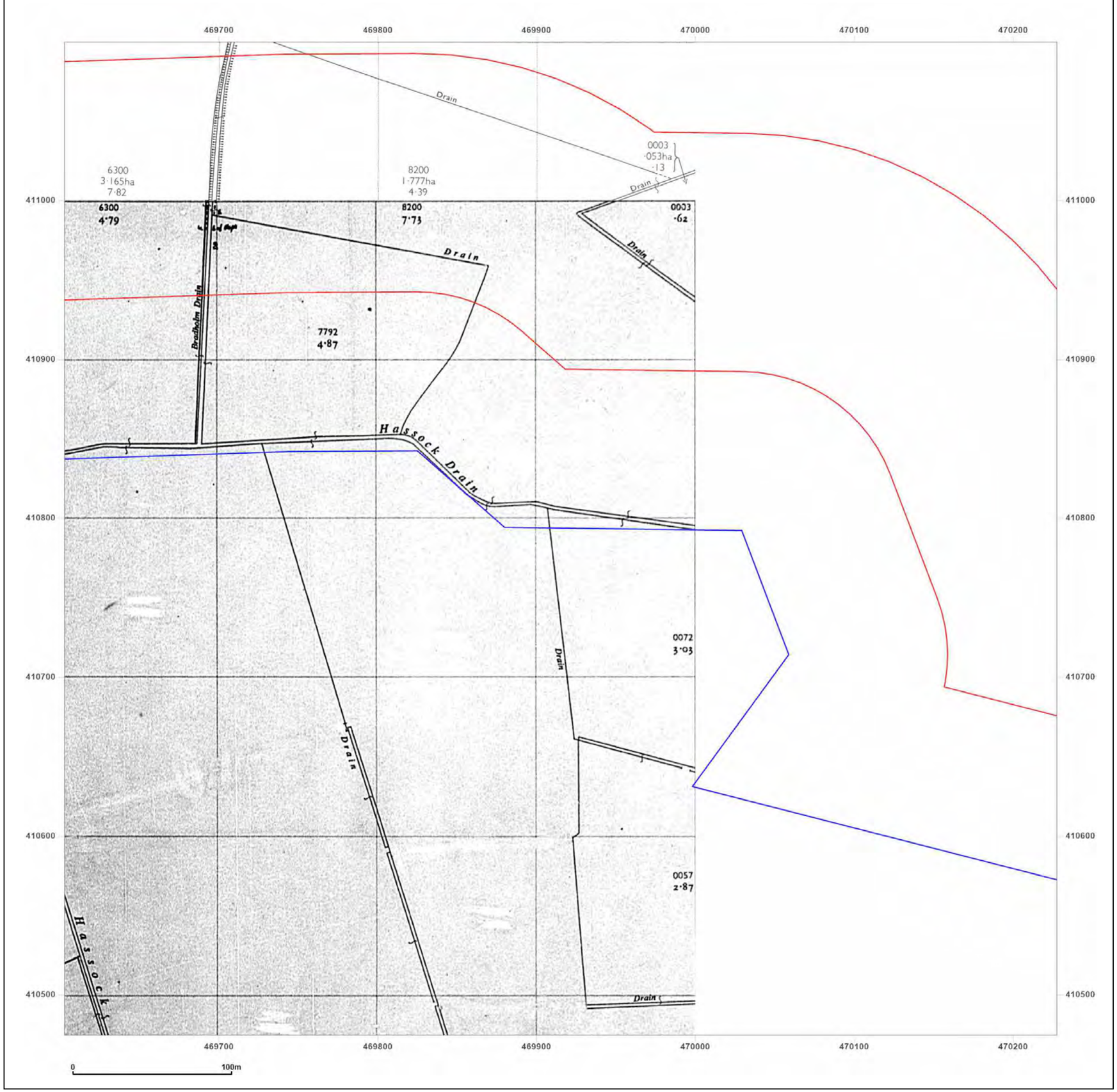
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_4
Grid Ref: 469915, 410787

Map Name: National Grid

Map date: **1974-1978**

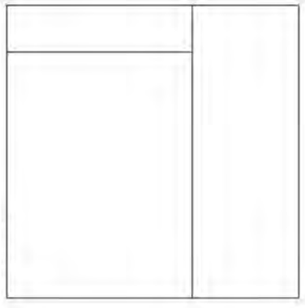
Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1973
Revised 1973
Edition N/A
Copyright 1974
Levelled 1964

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A



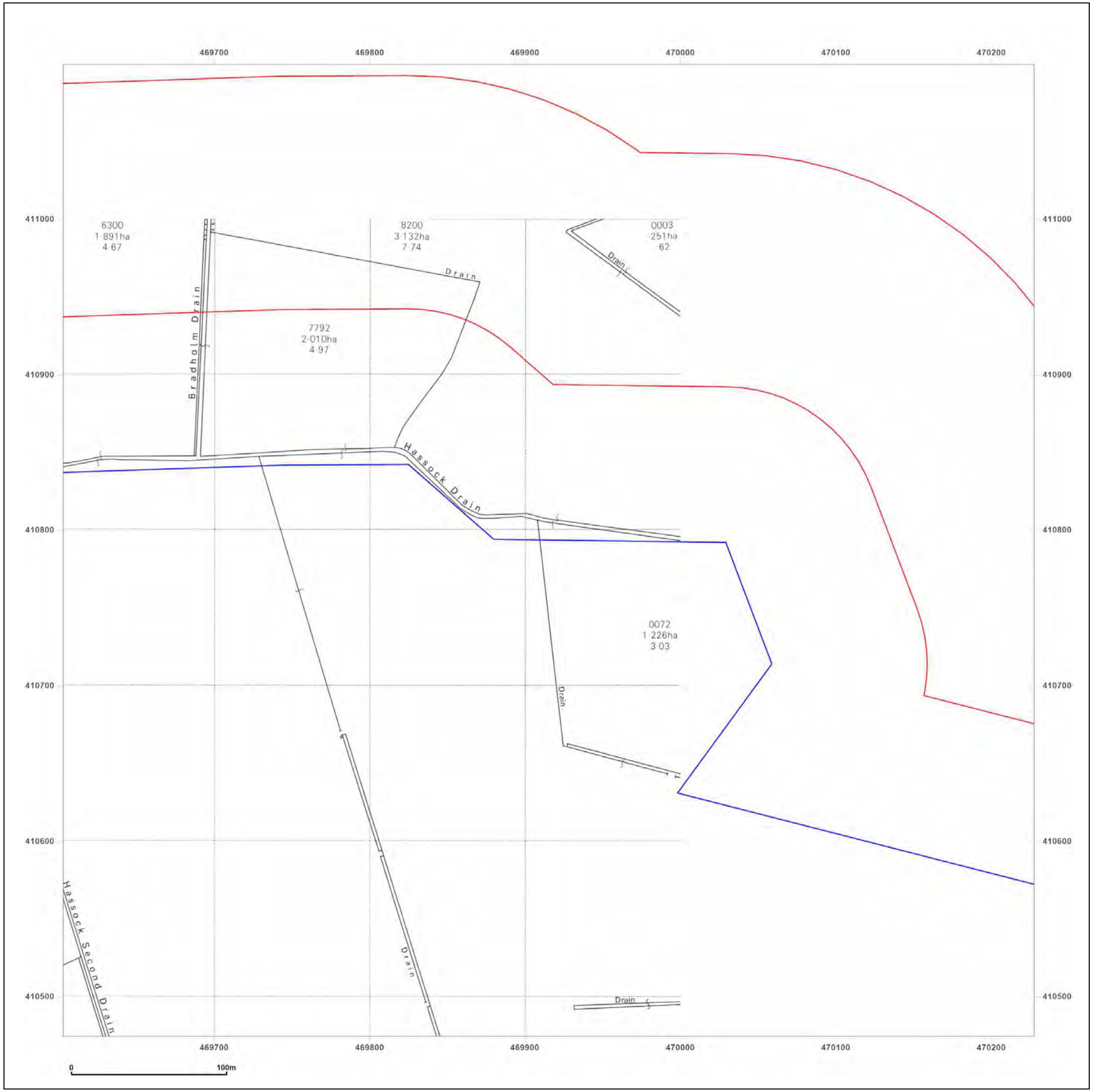
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_4
Grid Ref: 469915, 410787

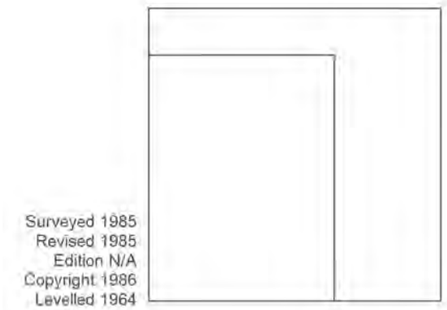
Map Name: National Grid

Map date: **1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



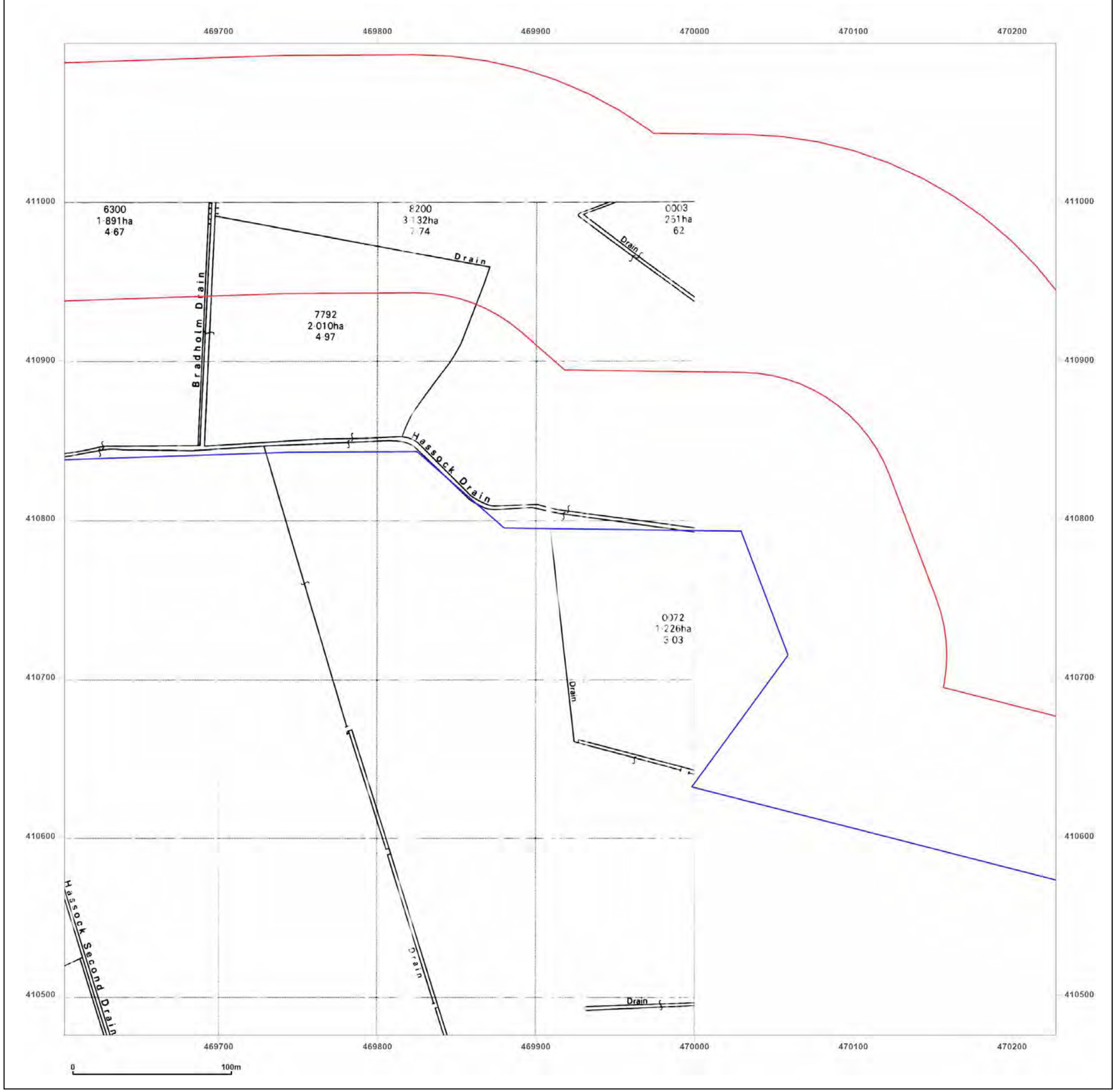
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_4
Grid Ref: 469915, 410787

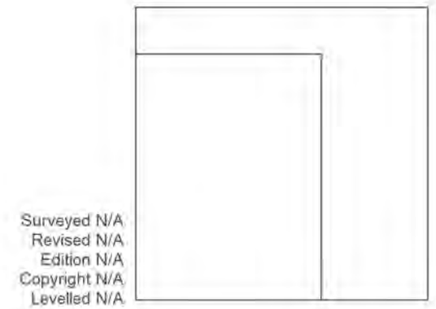
Map Name: National Grid

Map date: **1986**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



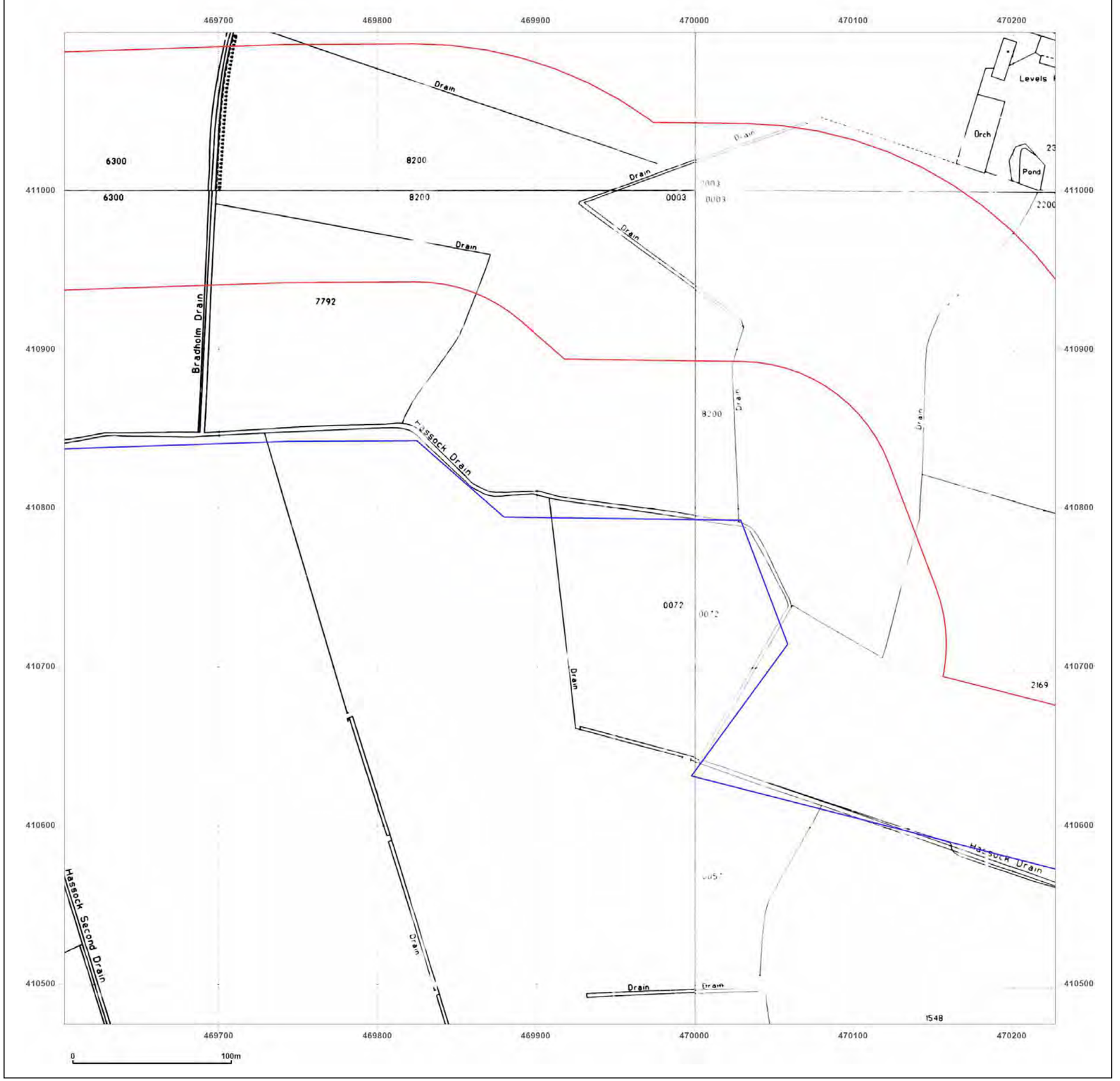
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_4
Grid Ref: 469915, 410787

Map Name: National Grid

Map date: **1993**

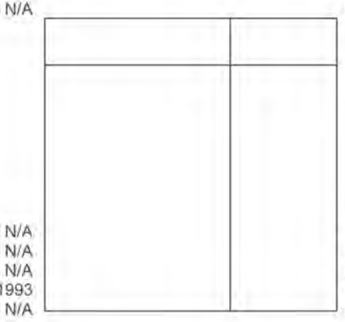
Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

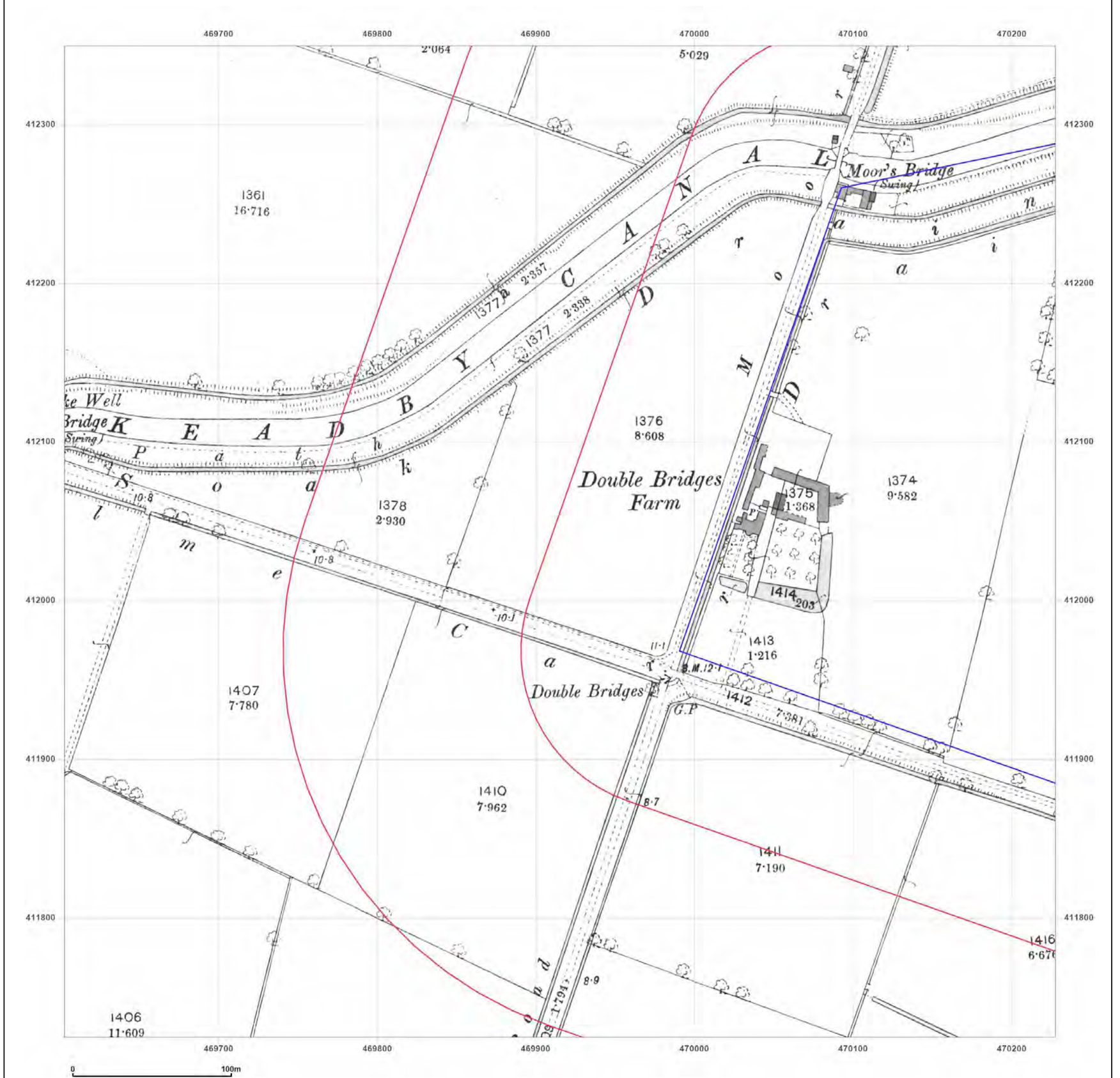
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_6
Grid Ref: 469915, 412037

Map Name: County Series

Map date: 1892

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

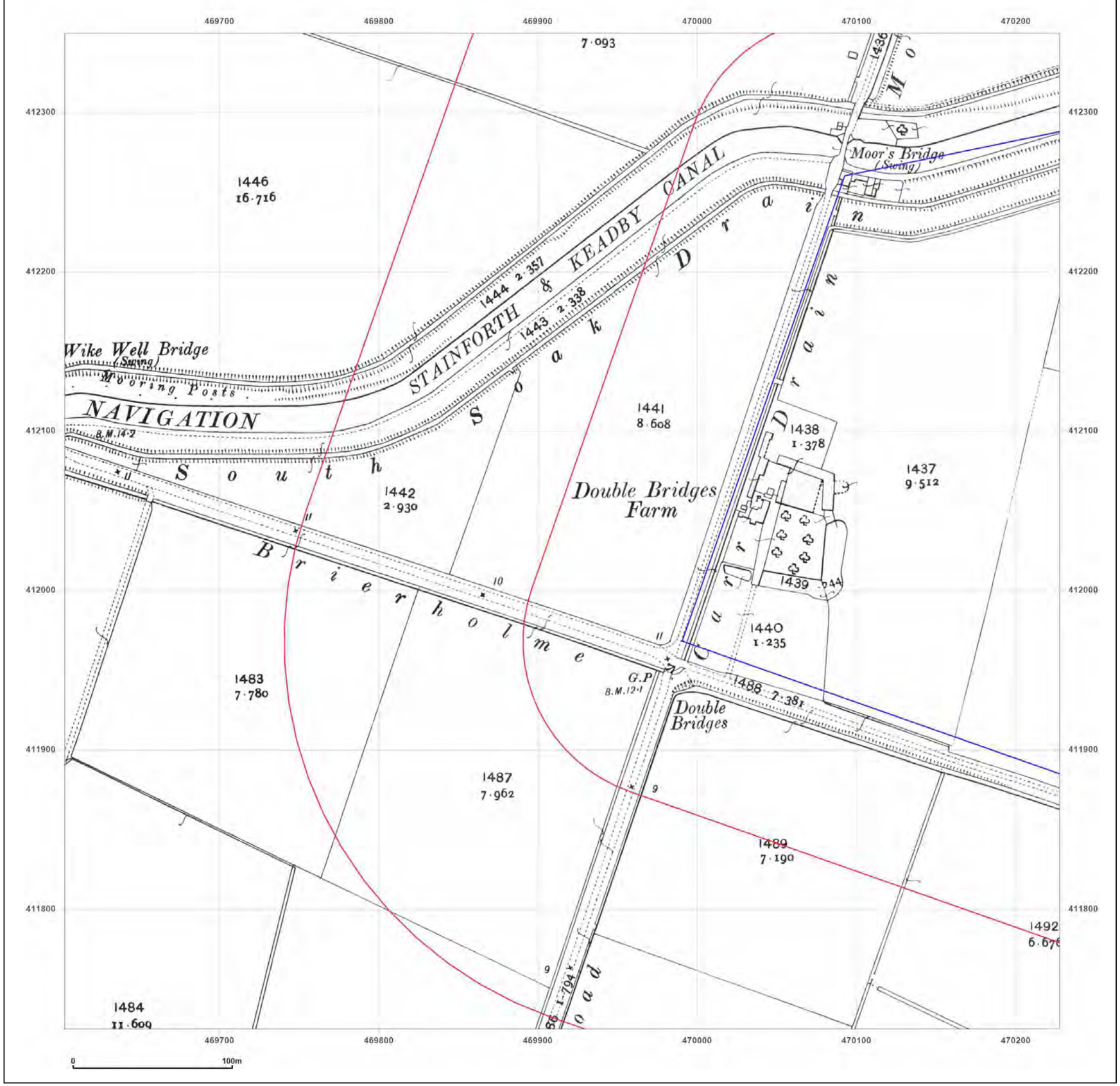
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_6
Grid Ref: 469915, 412037

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

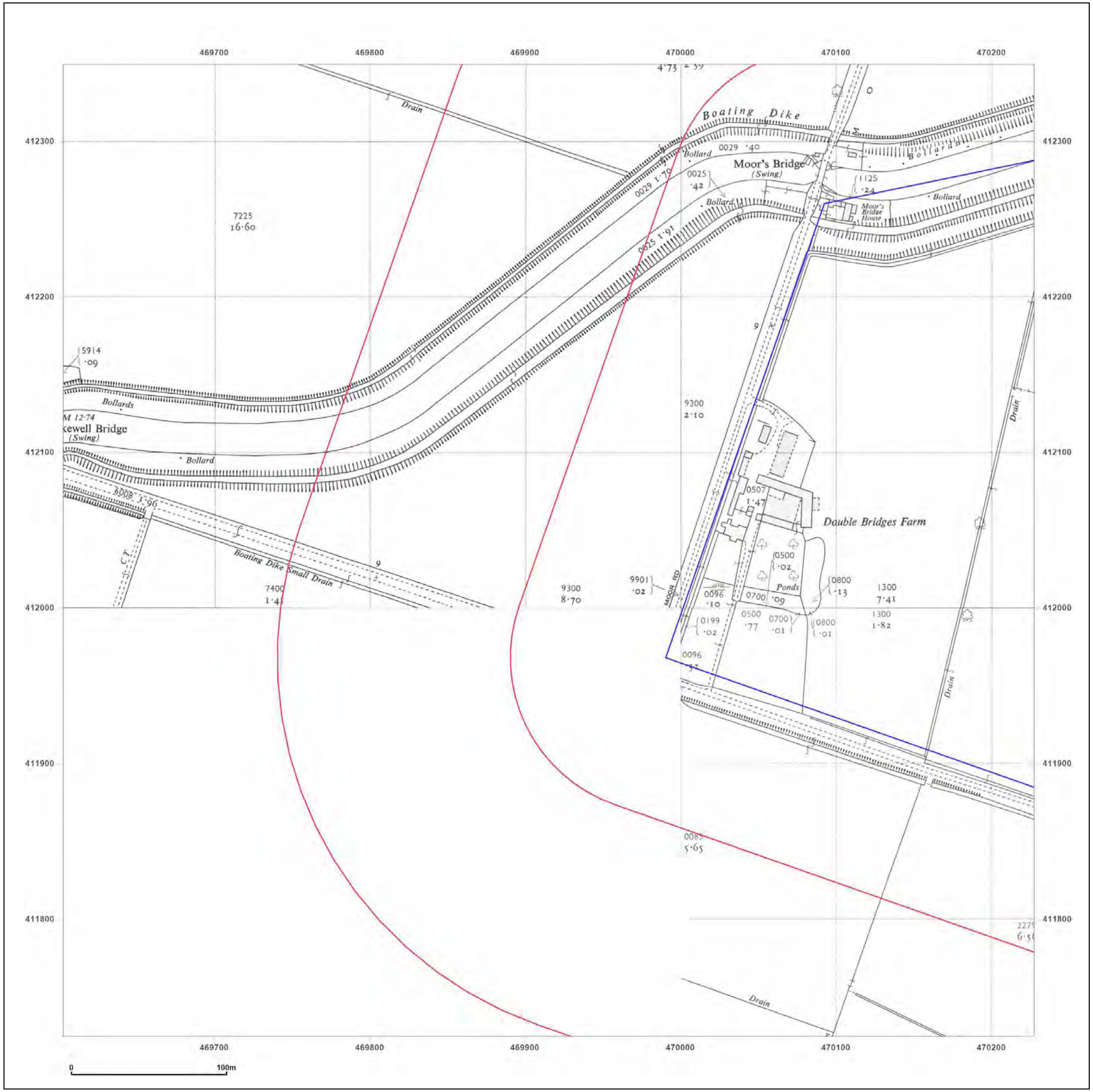
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_6
Grid Ref: 469915, 412037

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1961

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1961

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

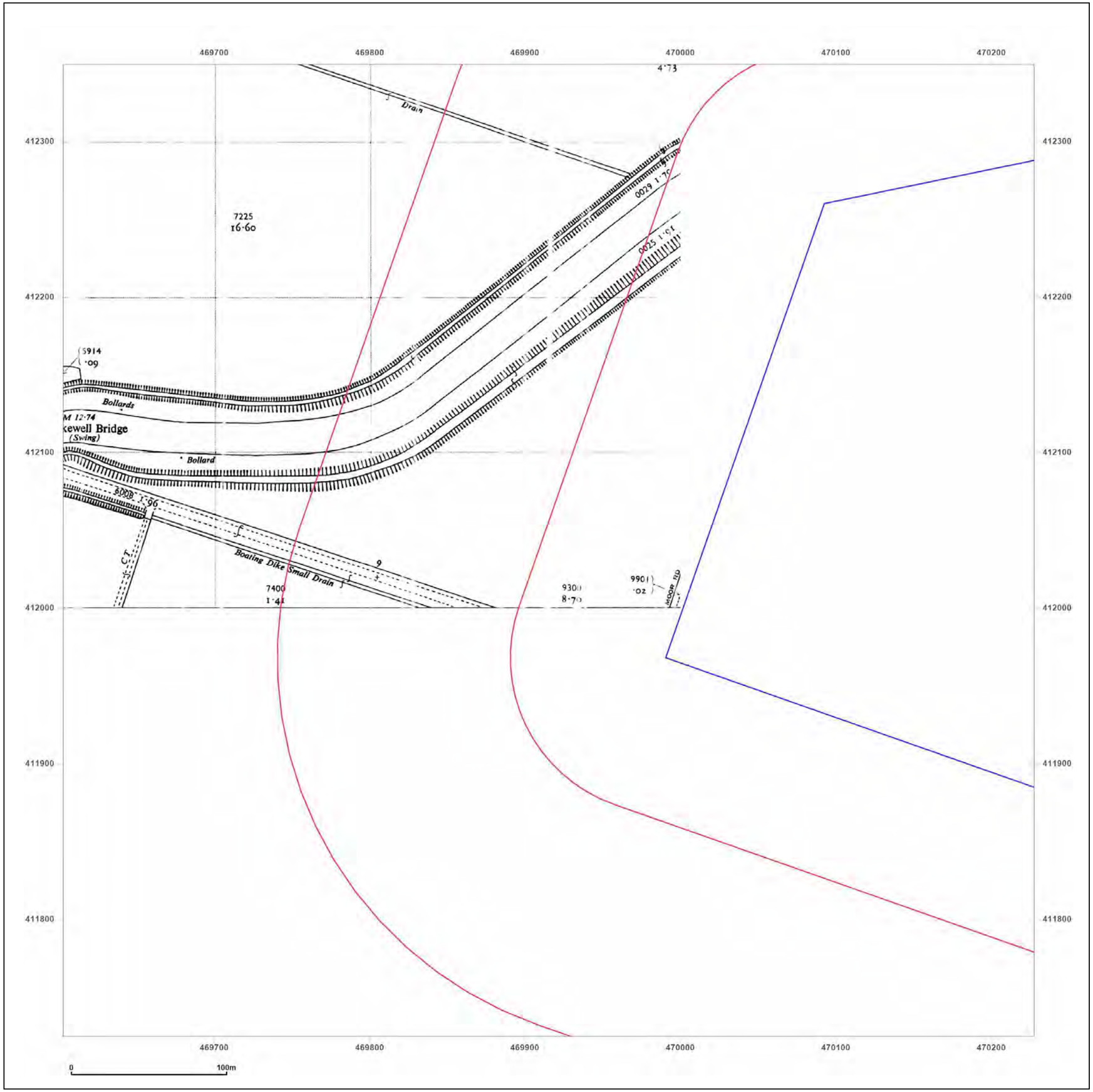
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_6
Grid Ref: 469915, 412037

Map Name: National Grid

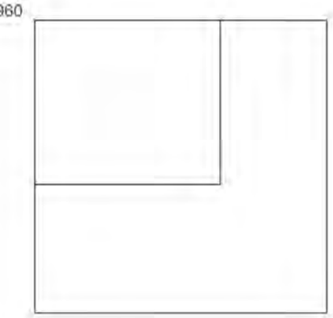
Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised 1962
Edition N/A
Copyright 1962
Levelled 1960



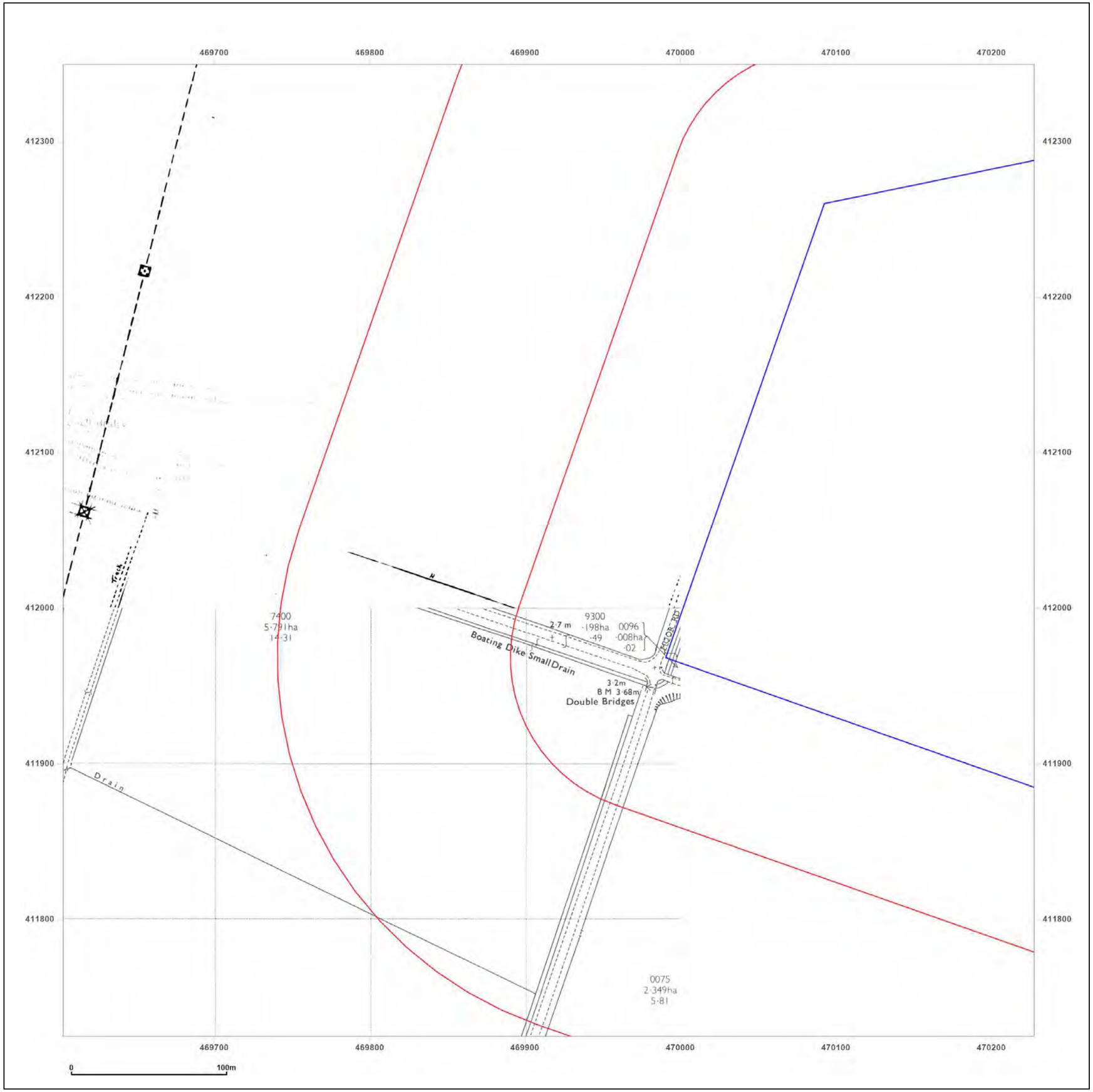
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_6
Grid Ref: 469915, 412037

Map Name: National Grid

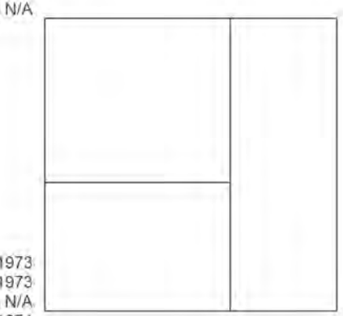
Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



Surveyed 1973
Revised 1973
Edition N/A
Copyright 1974
Levelled 1964

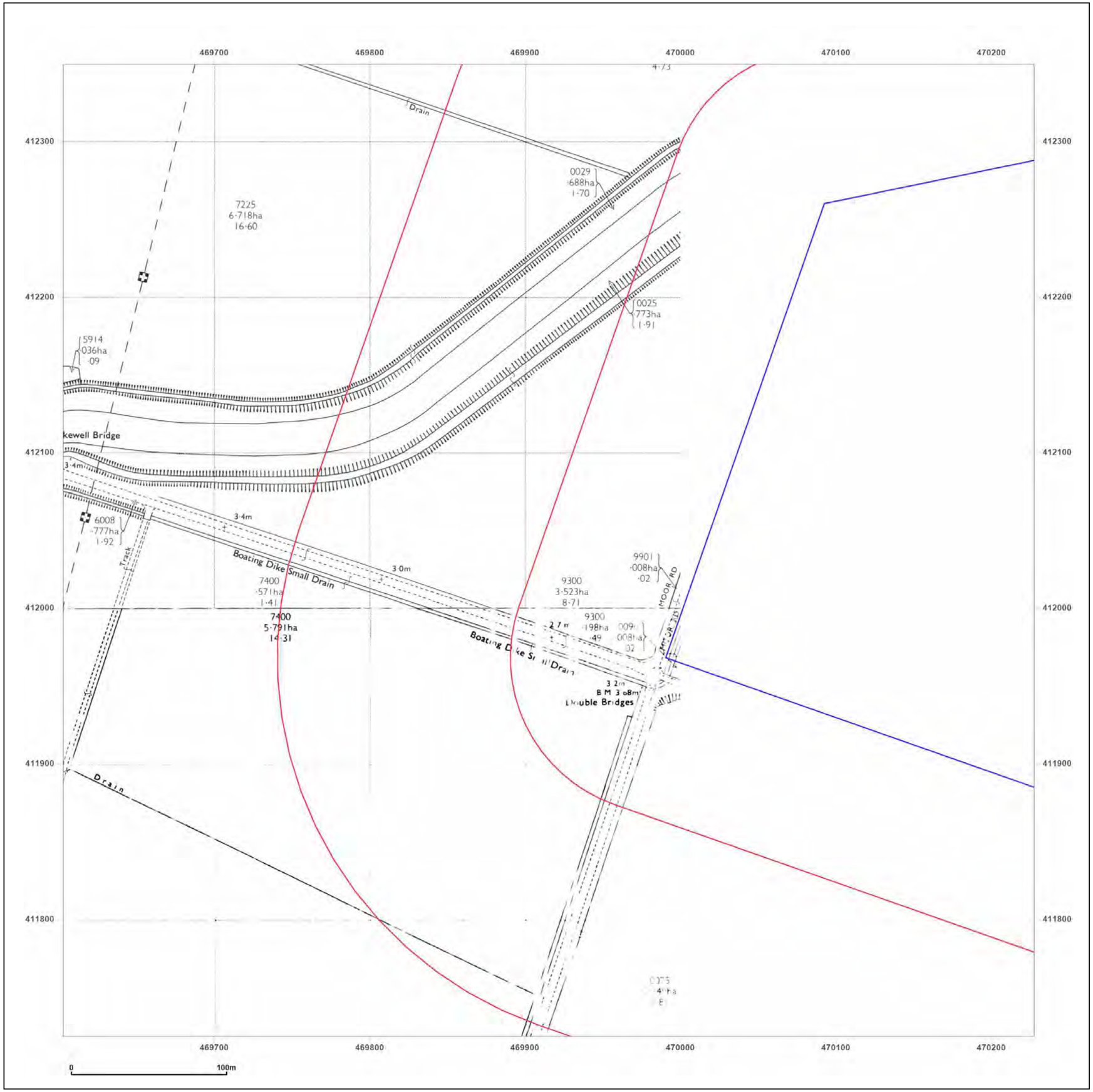
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_6
Grid Ref: 469915, 412037

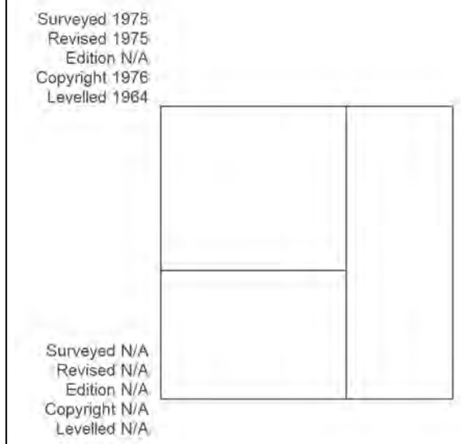
Map Name: National Grid

Map date: **1974-1976**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



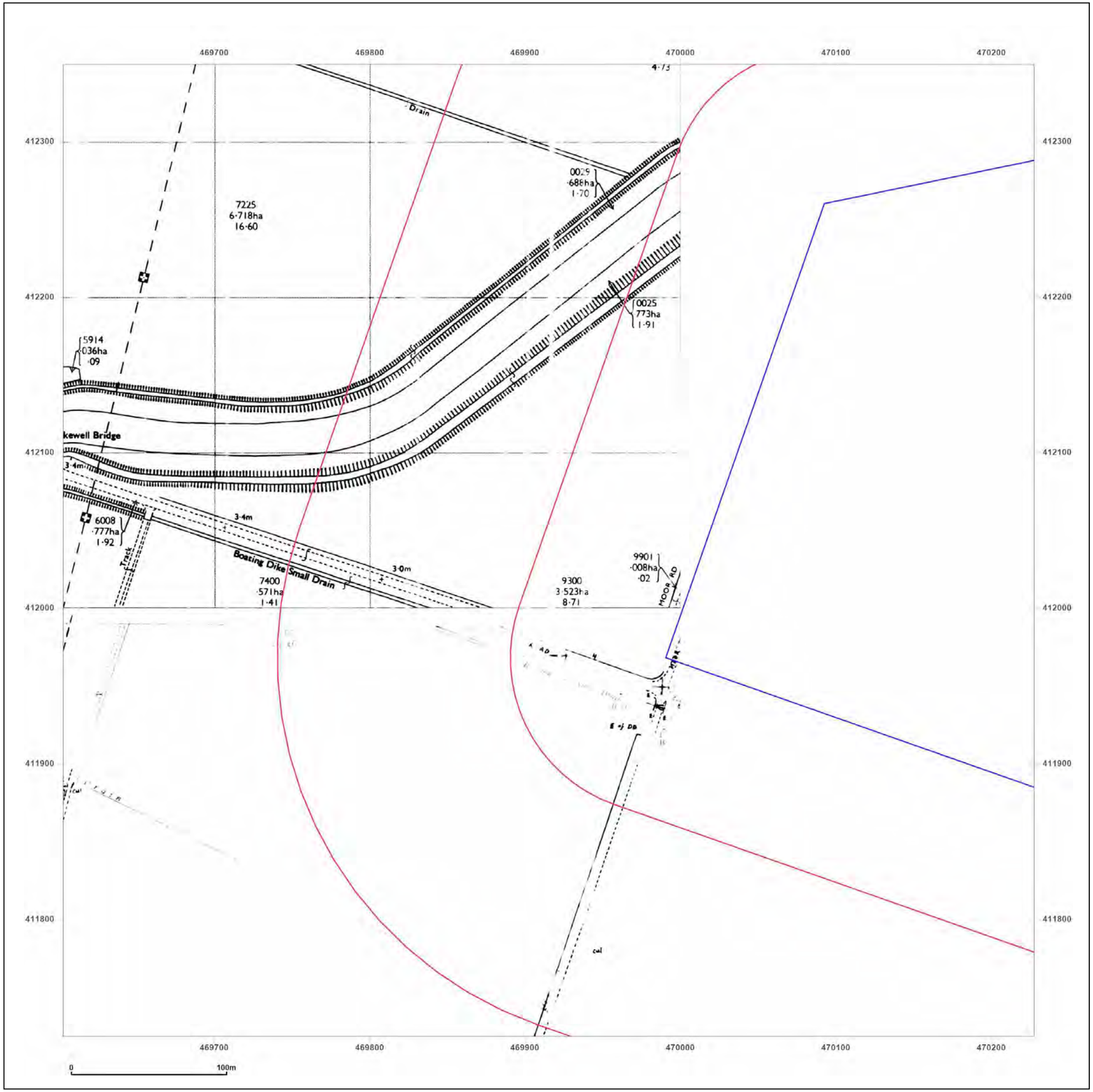
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_6
Grid Ref: 469915, 412037

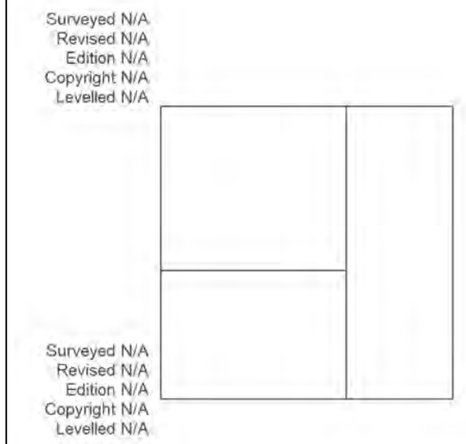
Map Name: National Grid

Map date: **1974-1976**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



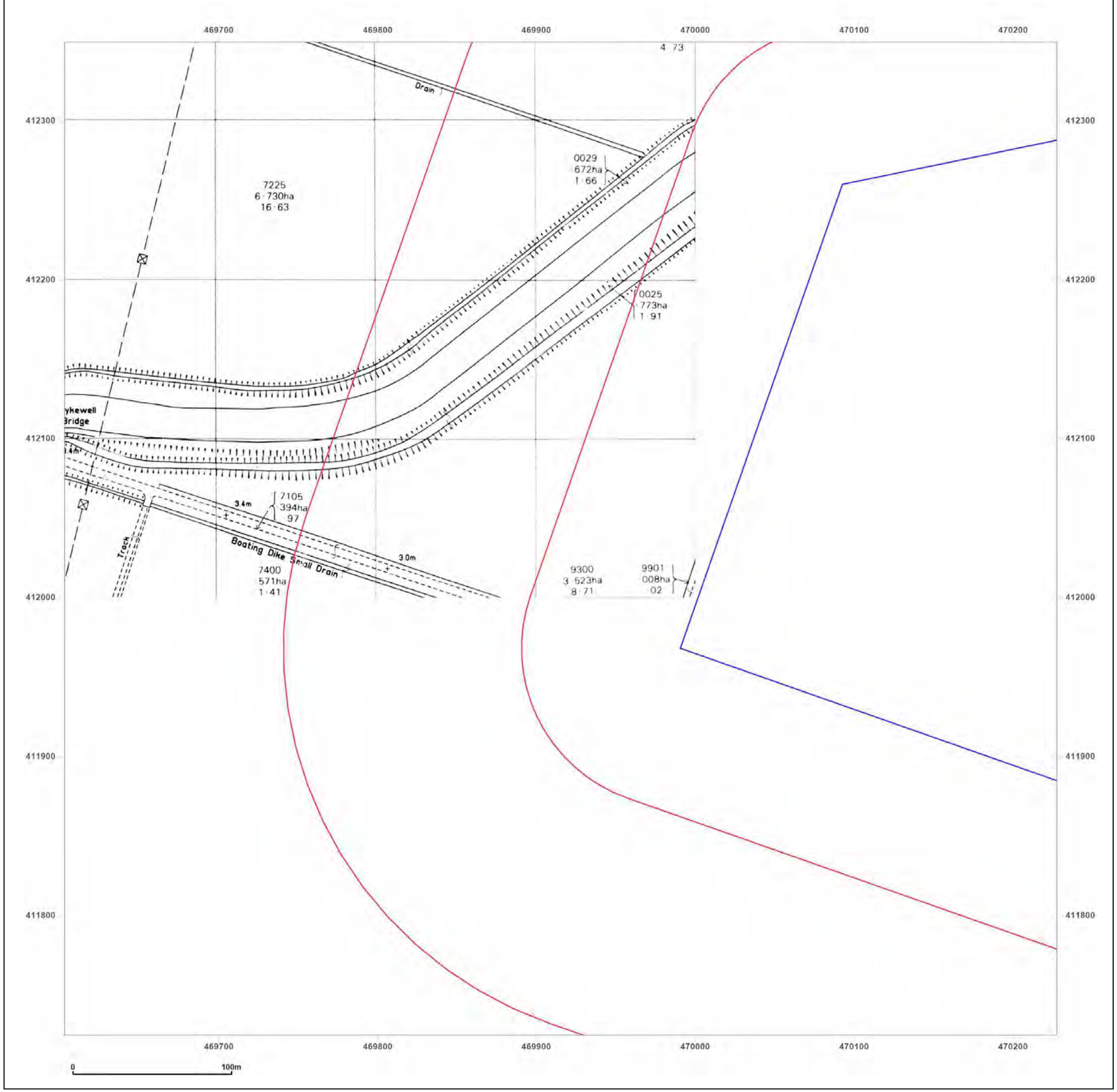
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Production date: 03 March 2023

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_6
Grid Ref: 469915, 412037

Map Name: National Grid

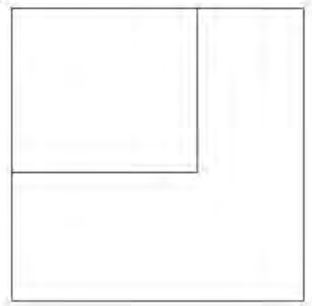
Map date: **1983**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1964
Revised 1983
Edition N/A
Copyright 1983
Levelled 1964



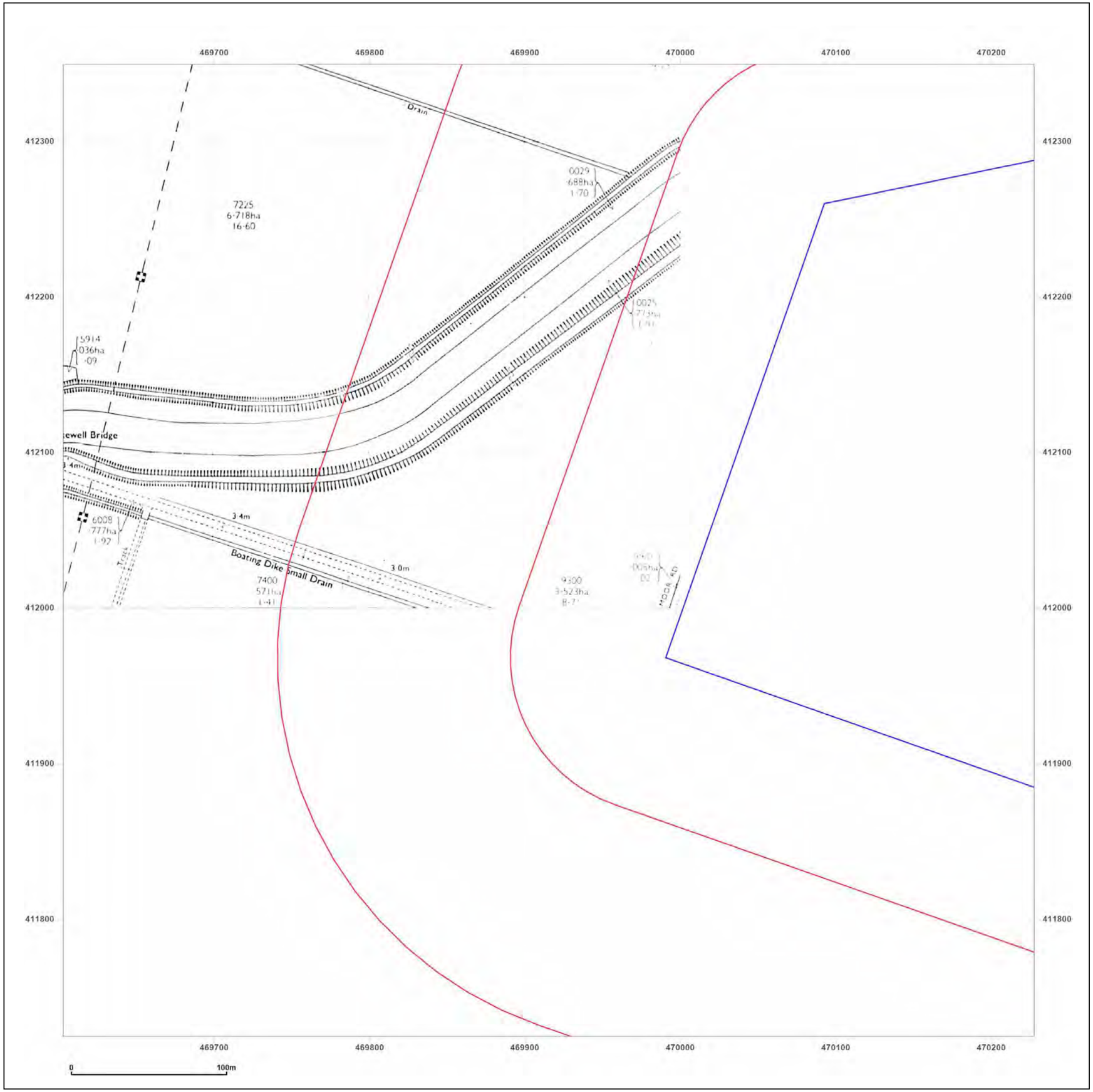
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_6
Grid Ref: 469915, 412037

Map Name: National Grid

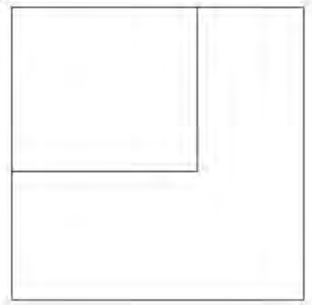
Map date: **1984**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1964
Revised 1984
Edition N/A
Copyright 1984
Levelled 1984



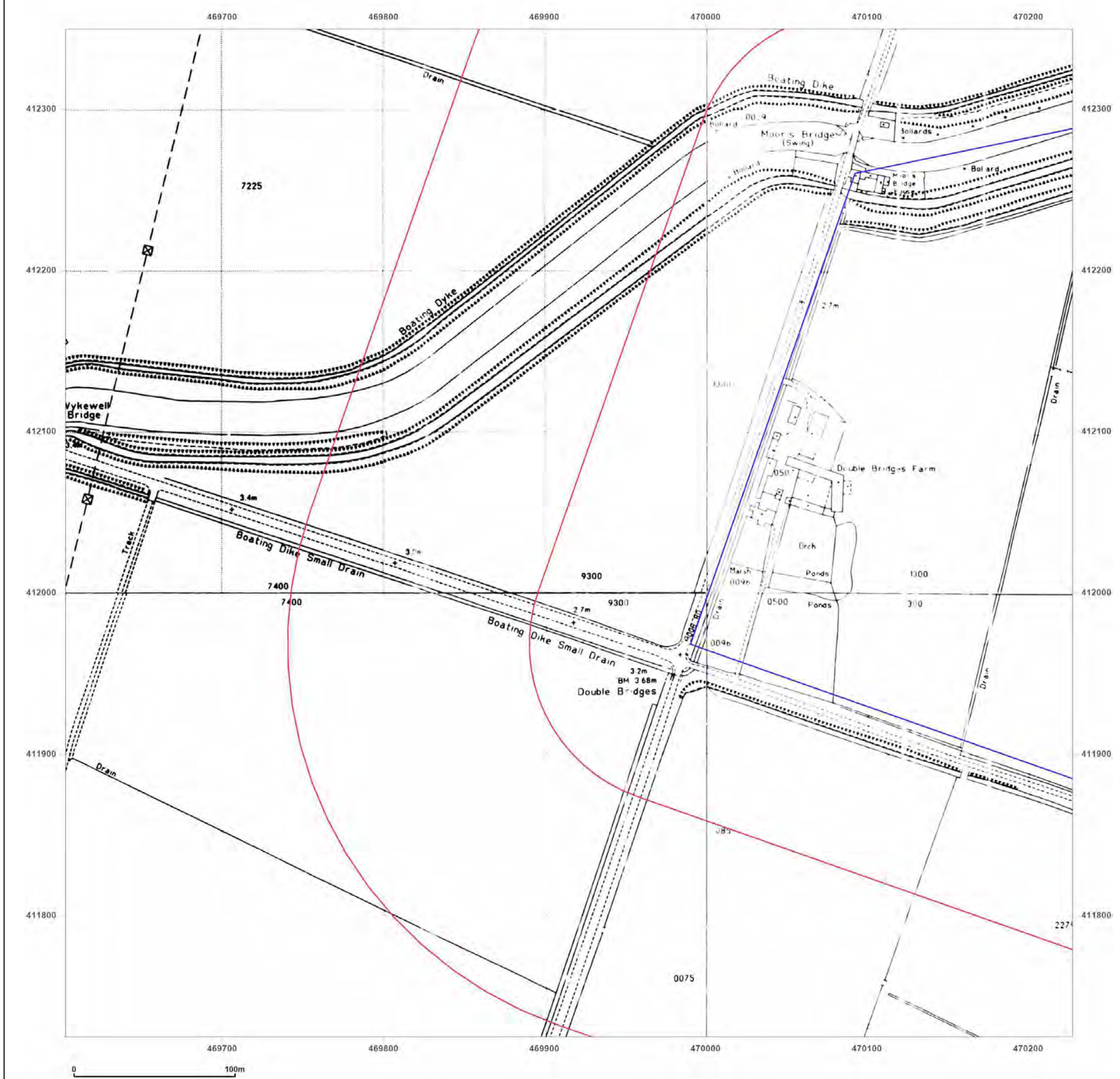
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_6
Grid Ref: 469915, 412037

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

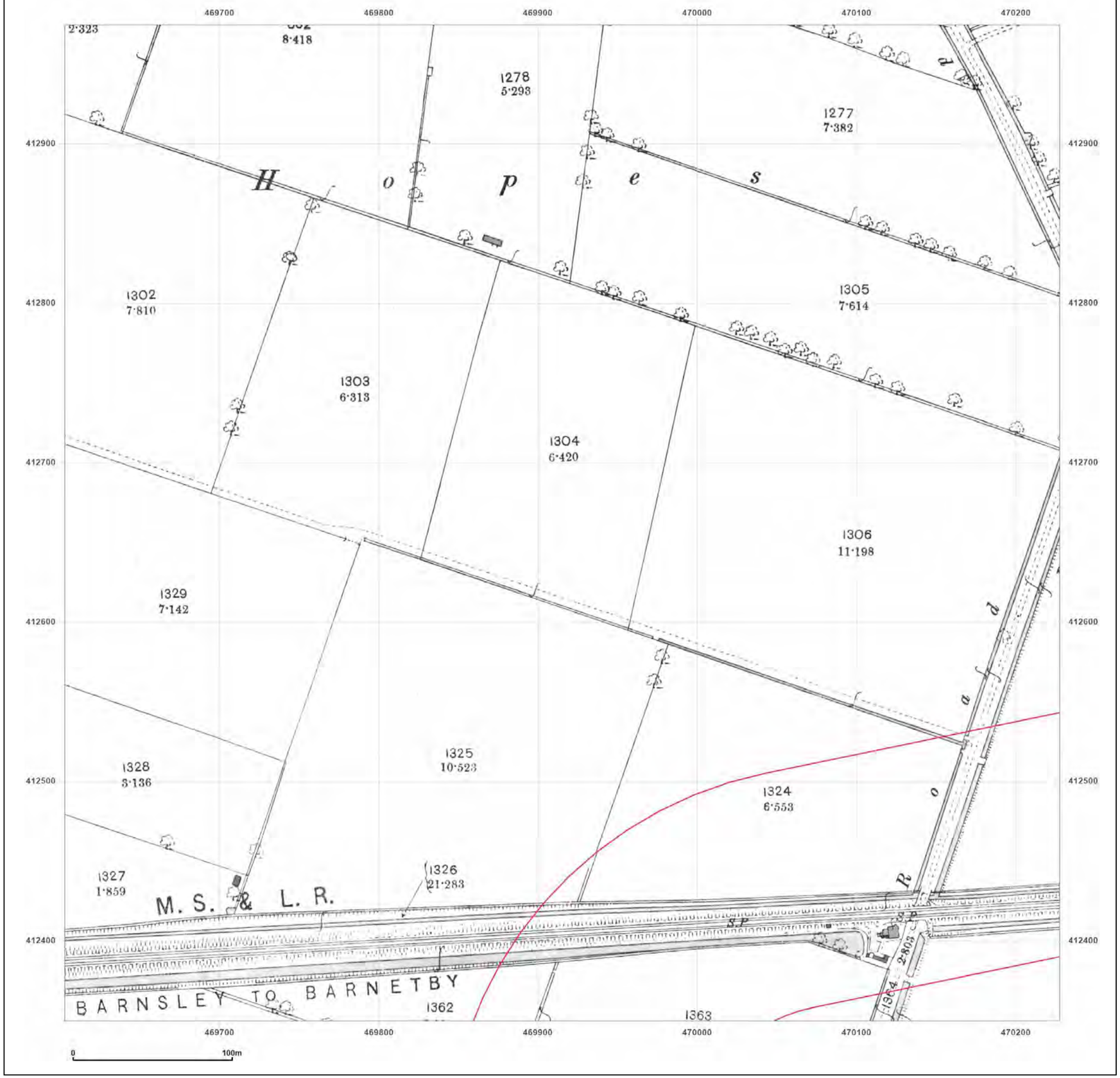
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_7
Grid Ref: 469915, 412662

Map Name: County Series
Map date: **1892**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



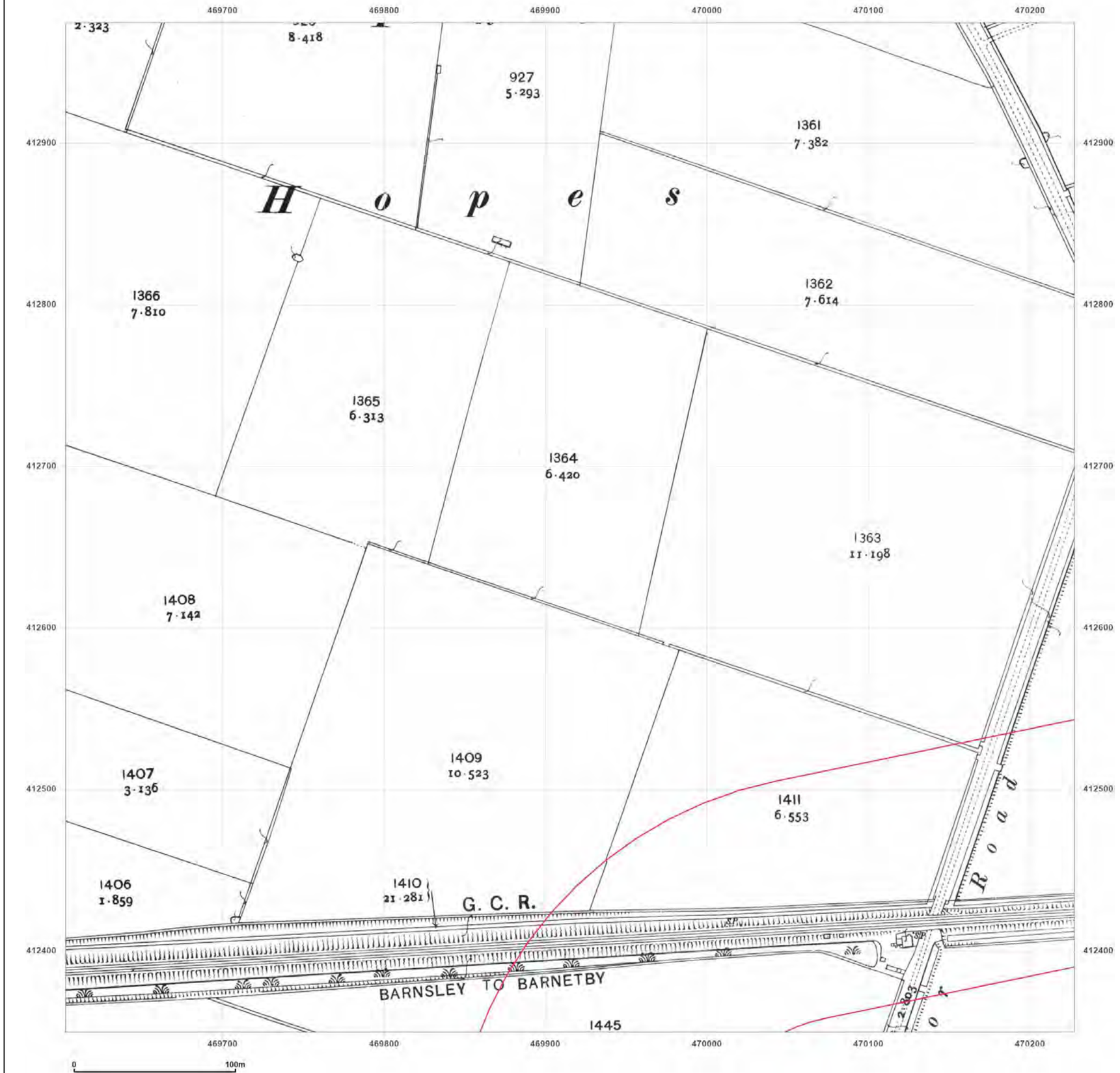
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_7
Grid Ref: 469915, 412662

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
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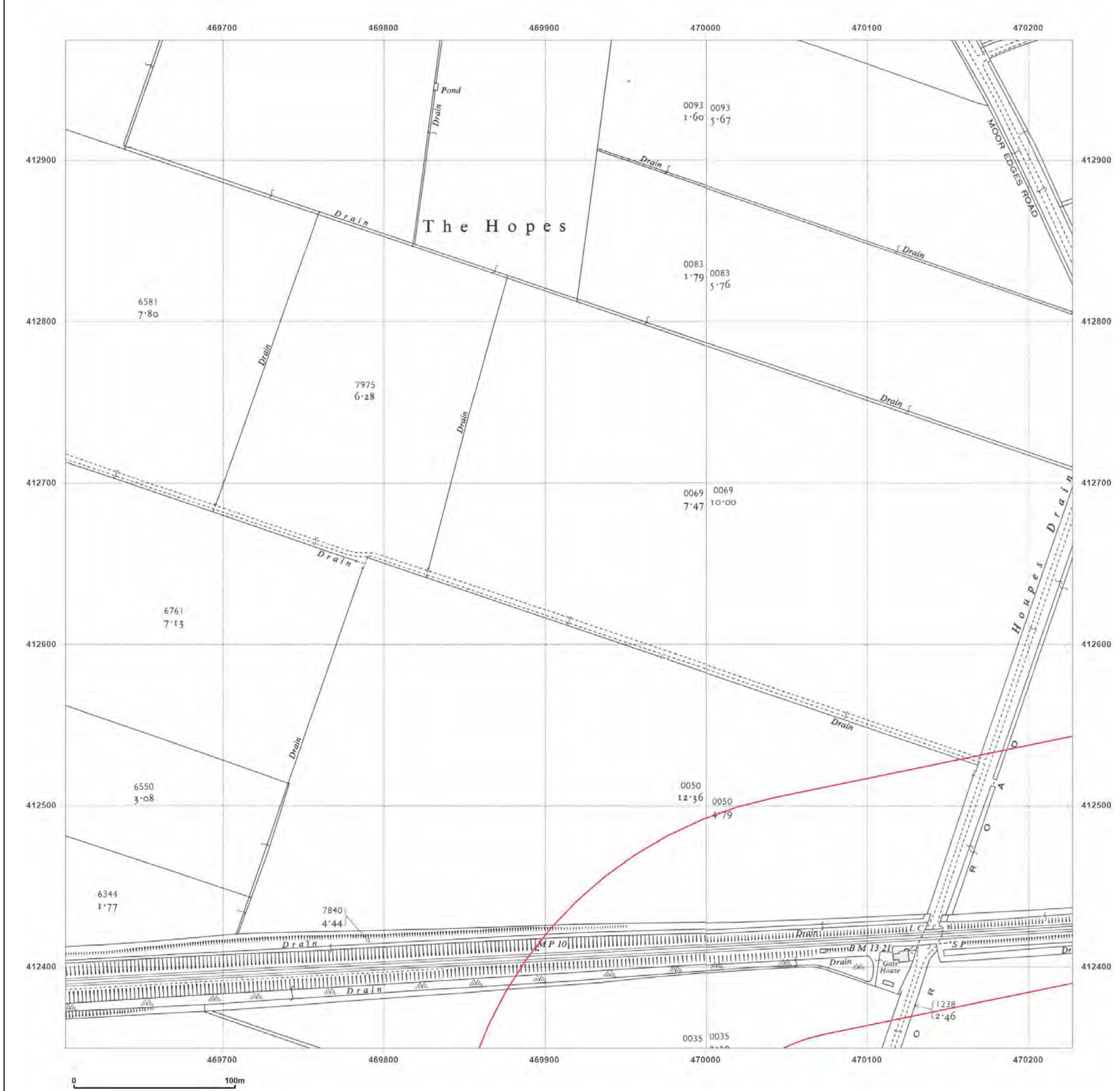
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_7
Grid Ref: 469915, 412662

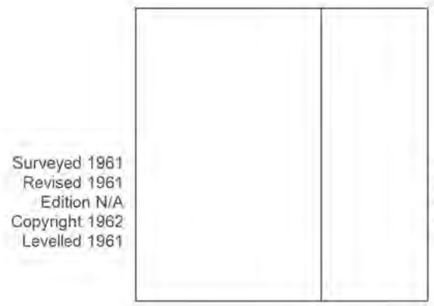
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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S



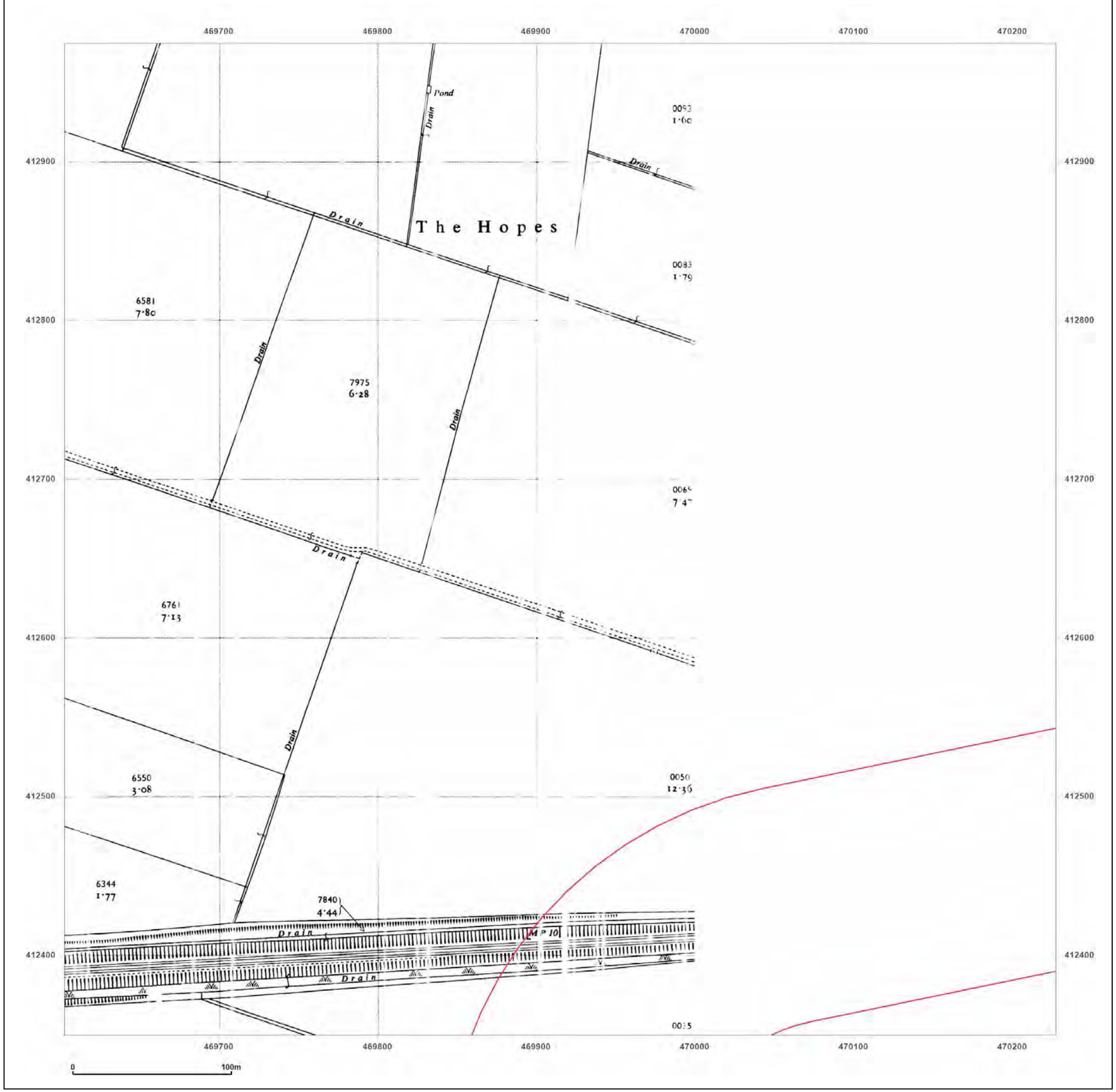
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_7
Grid Ref: 469915, 412662

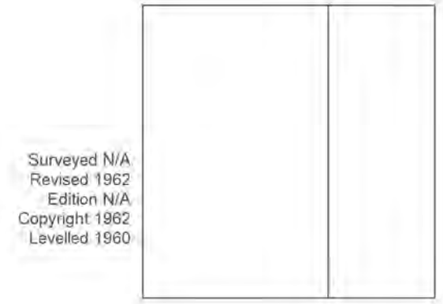
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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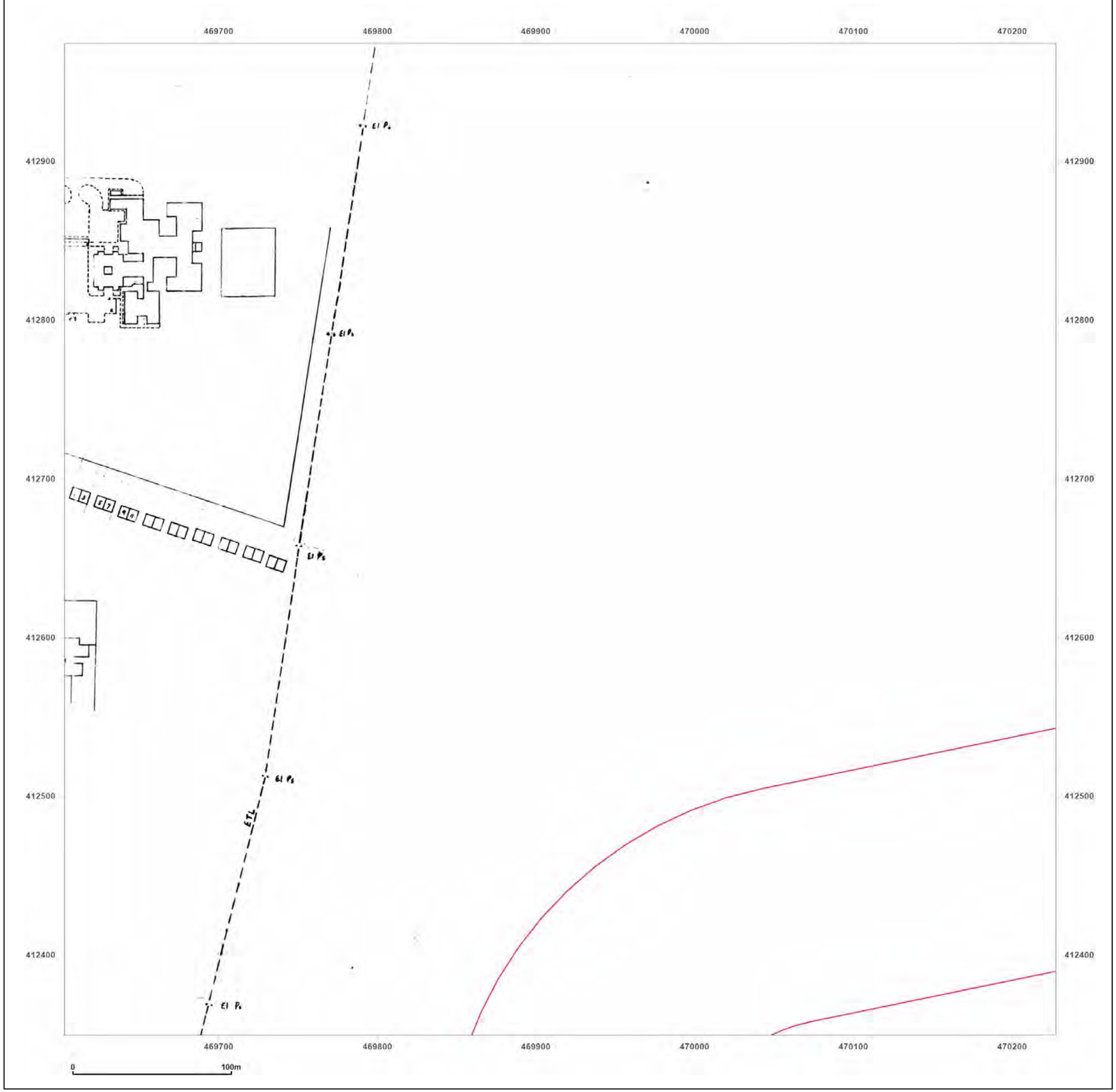
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_7
Grid Ref: 469915, 412662

Map Name: National Grid

Map date: **1974**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_7
Grid Ref: 469915, 412662

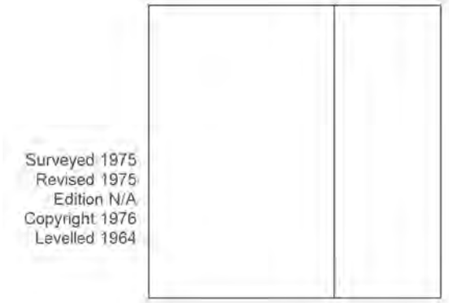
Map Name: National Grid

Map date: **1976**

Scale: 1:2,500

Printed at: 1:2,500

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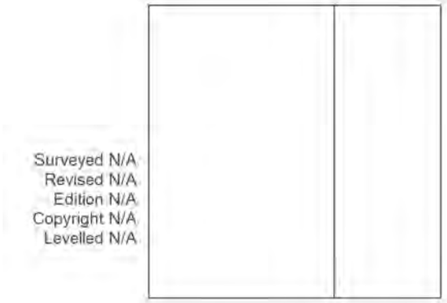
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_7
Grid Ref: 469915, 412662

Map Name: National Grid
Map date: **1976**
Scale: 1:2,500
Printed at: 1:2,500

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_7
Grid Ref: 469915, 412662

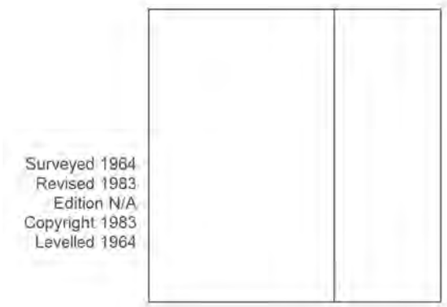
Map Name: National Grid

Map date: **1983**

Scale: 1:2,500

Printed at: 1:2,500

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_7
Grid Ref: 469915, 412662

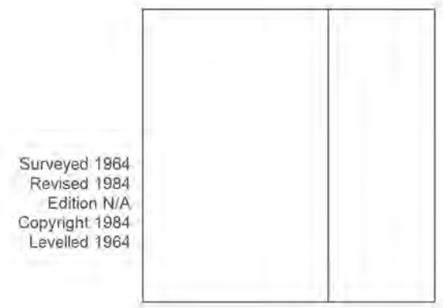
Map Name: National Grid

Map date: **1984**

Scale: 1:2,500

Printed at: 1:2,500

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_7
Grid Ref: 469915, 412662

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



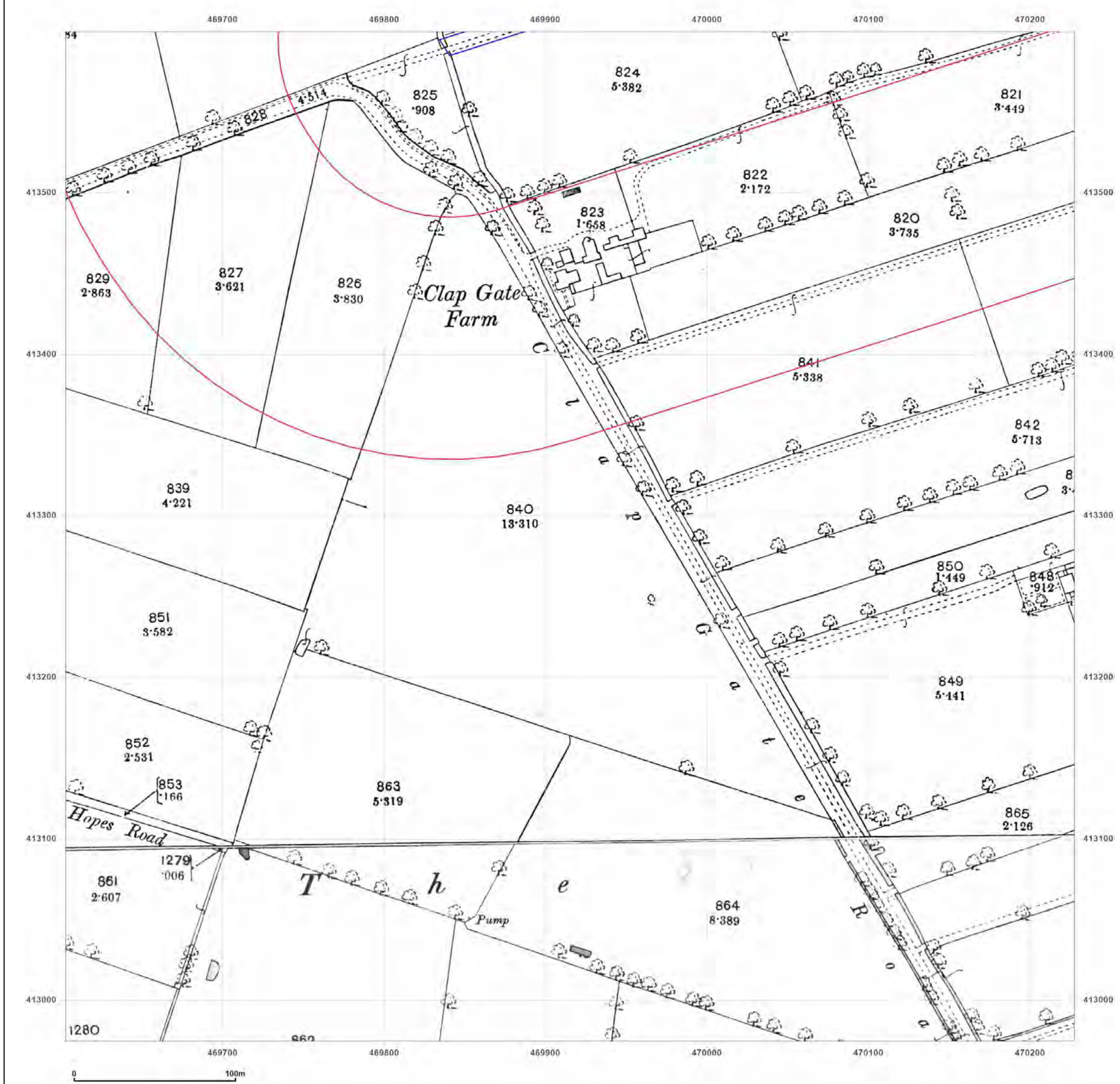
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_8
Grid Ref: 469915, 413287

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1890
Revised N/A
Edition 1892
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

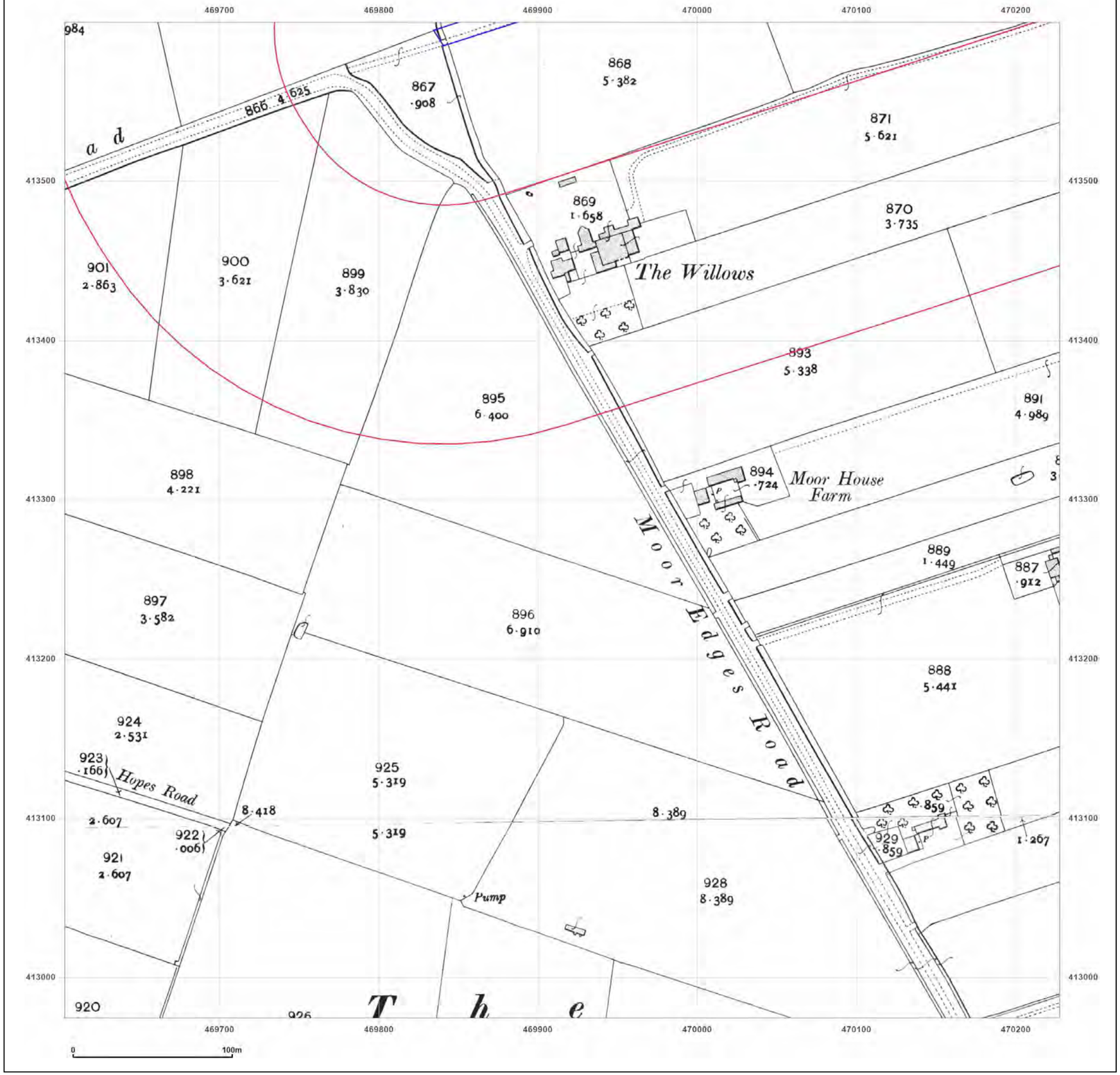
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_8
Grid Ref: 469915, 413287

Map Name: County Series

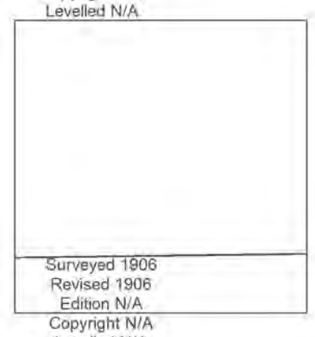
Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

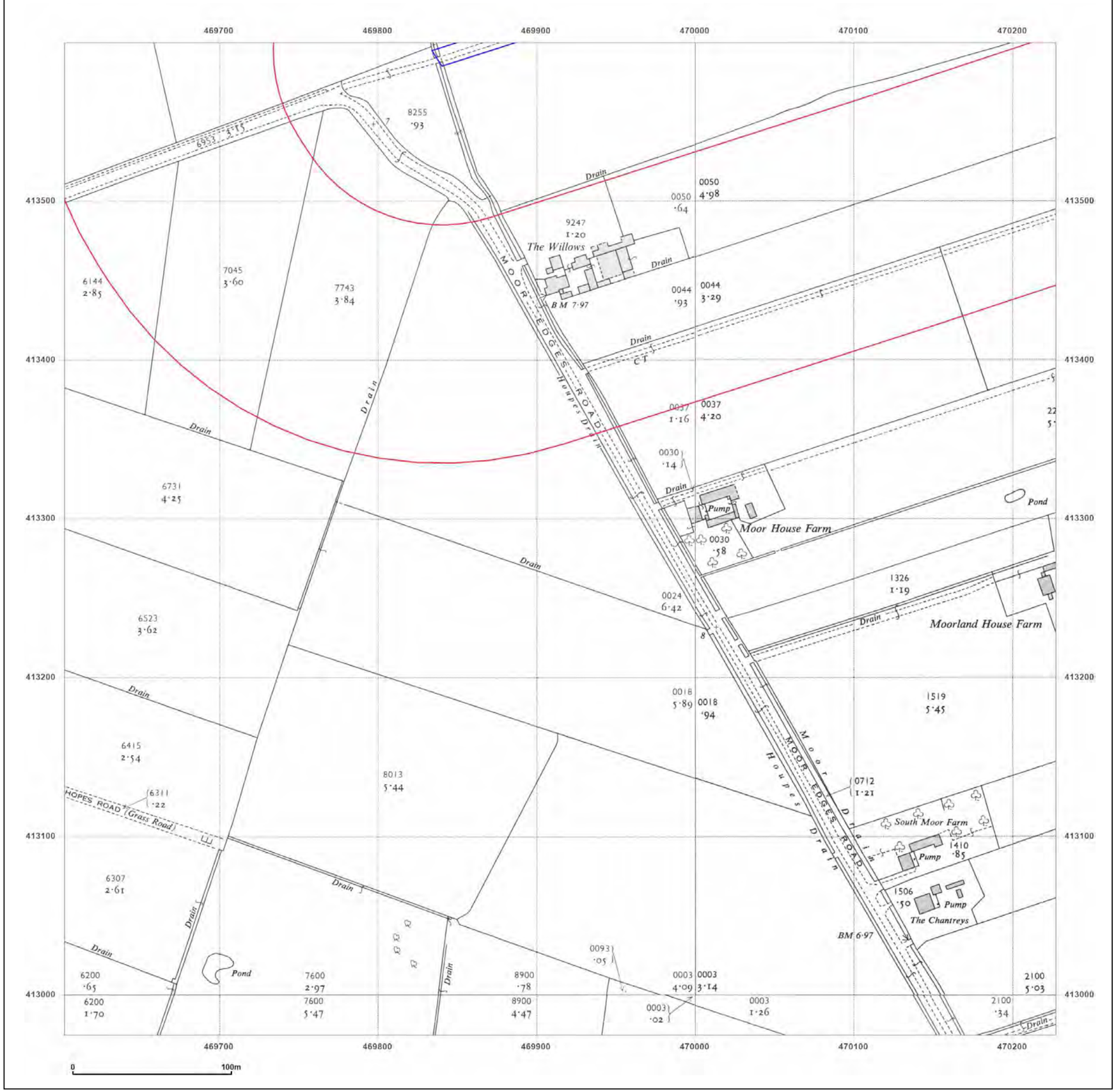
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_8
Grid Ref: 469915, 413287

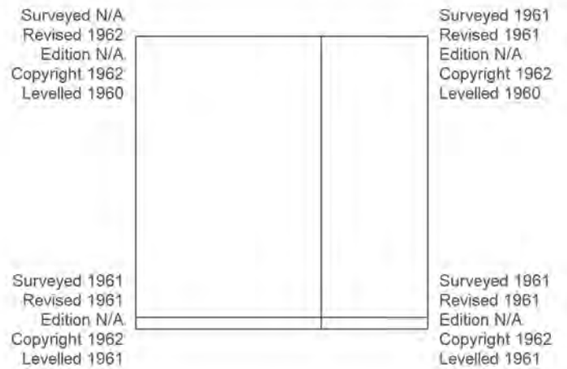
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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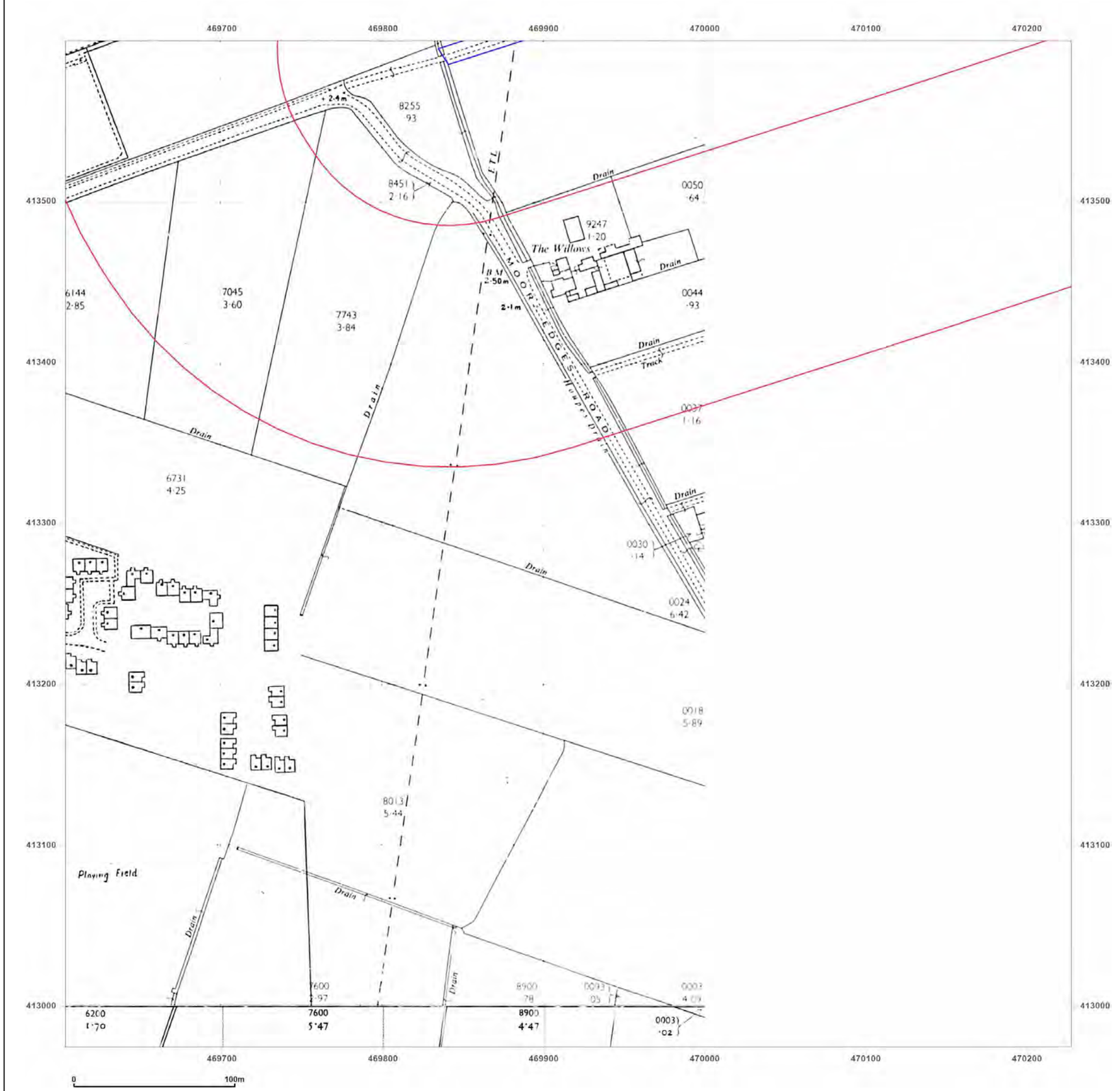
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_8
Grid Ref: 469915, 413287

Map Name: National Grid

Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1964

Surveyed N/A
Revised 1962
Edition N/A
Copyright 1962
Levelled 1960

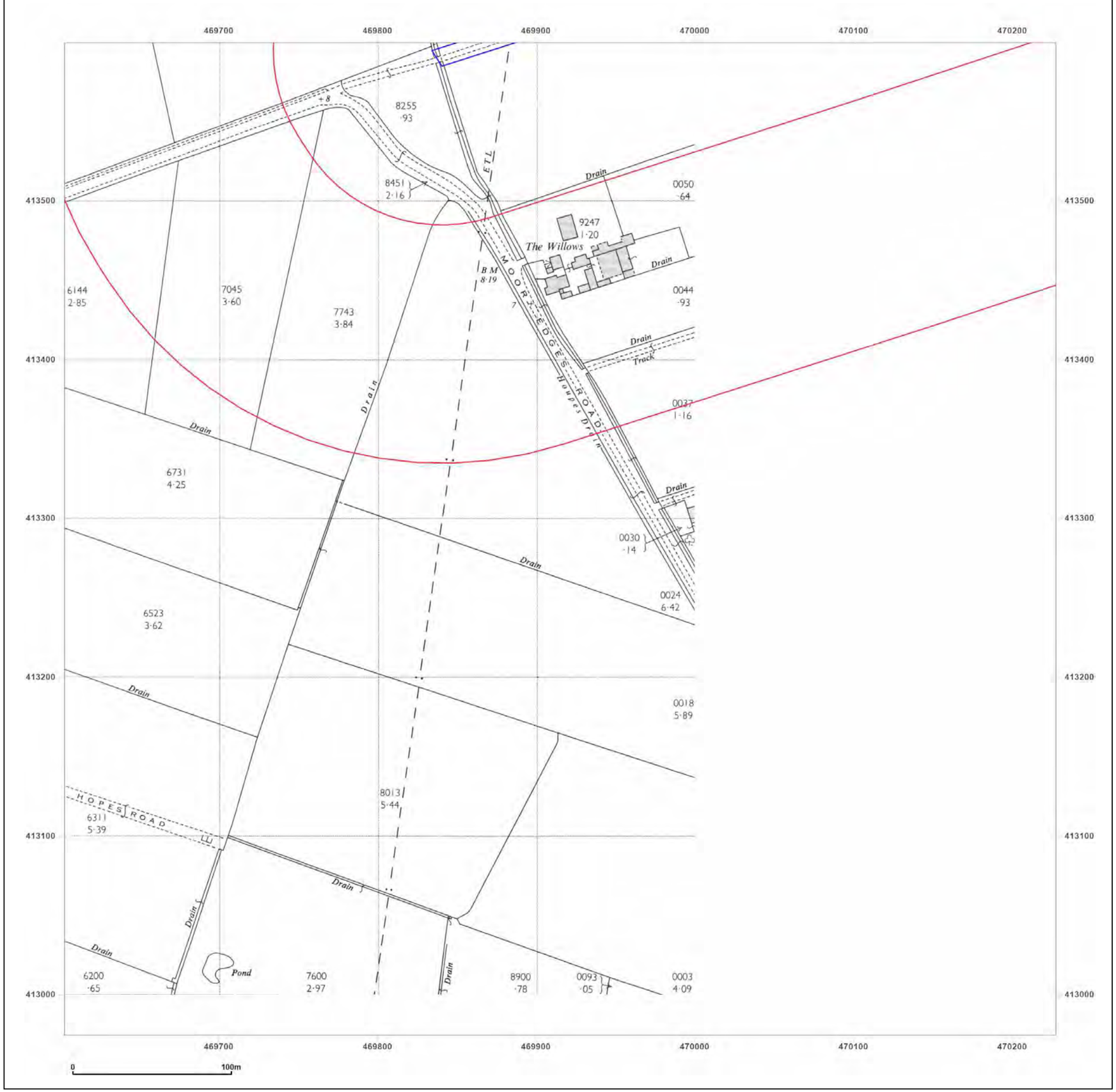
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_8
Grid Ref: 469915, 413287

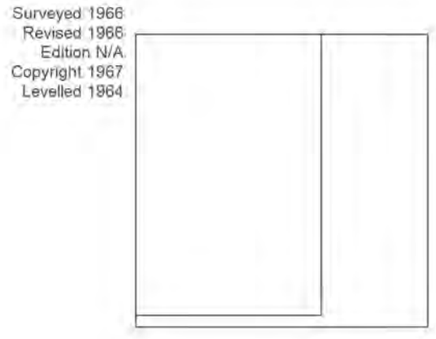
Map Name: National Grid

Map date: **1967**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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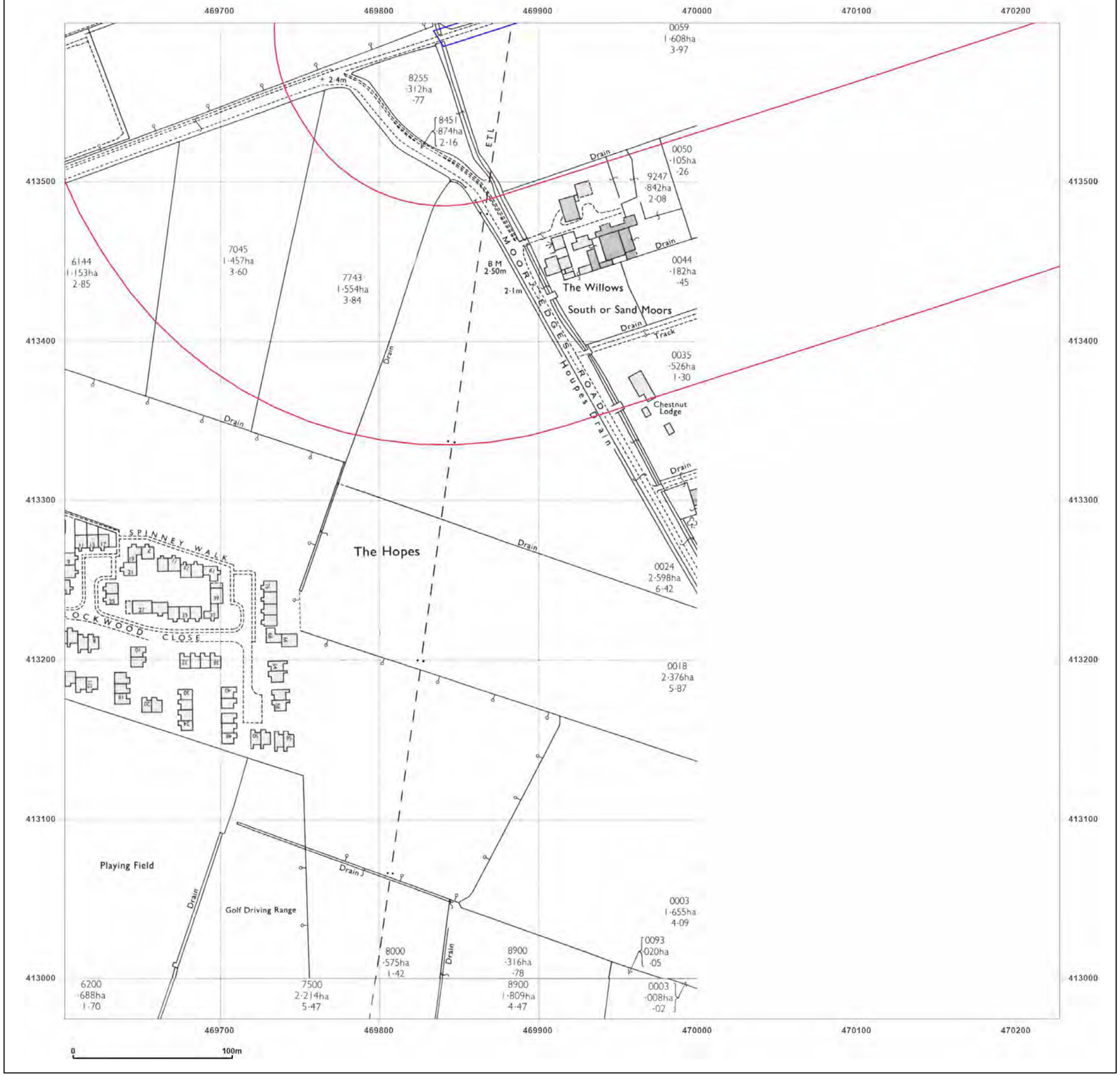
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Groundsure INSIGHTS

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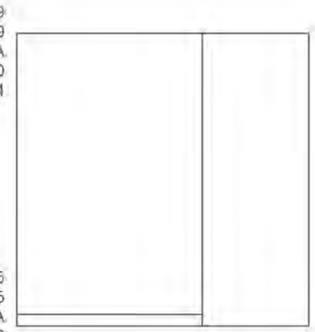
Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_8
Grid Ref: 469915, 413287

Map Name: National Grid
Map date: **1976-1980**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1979
Revised 1979
Edition N/A
Copyright 1980
Levelled 1964



Surveyed 1975
Revised 1975
Edition N/A
Copyright 1976
Levelled 1964

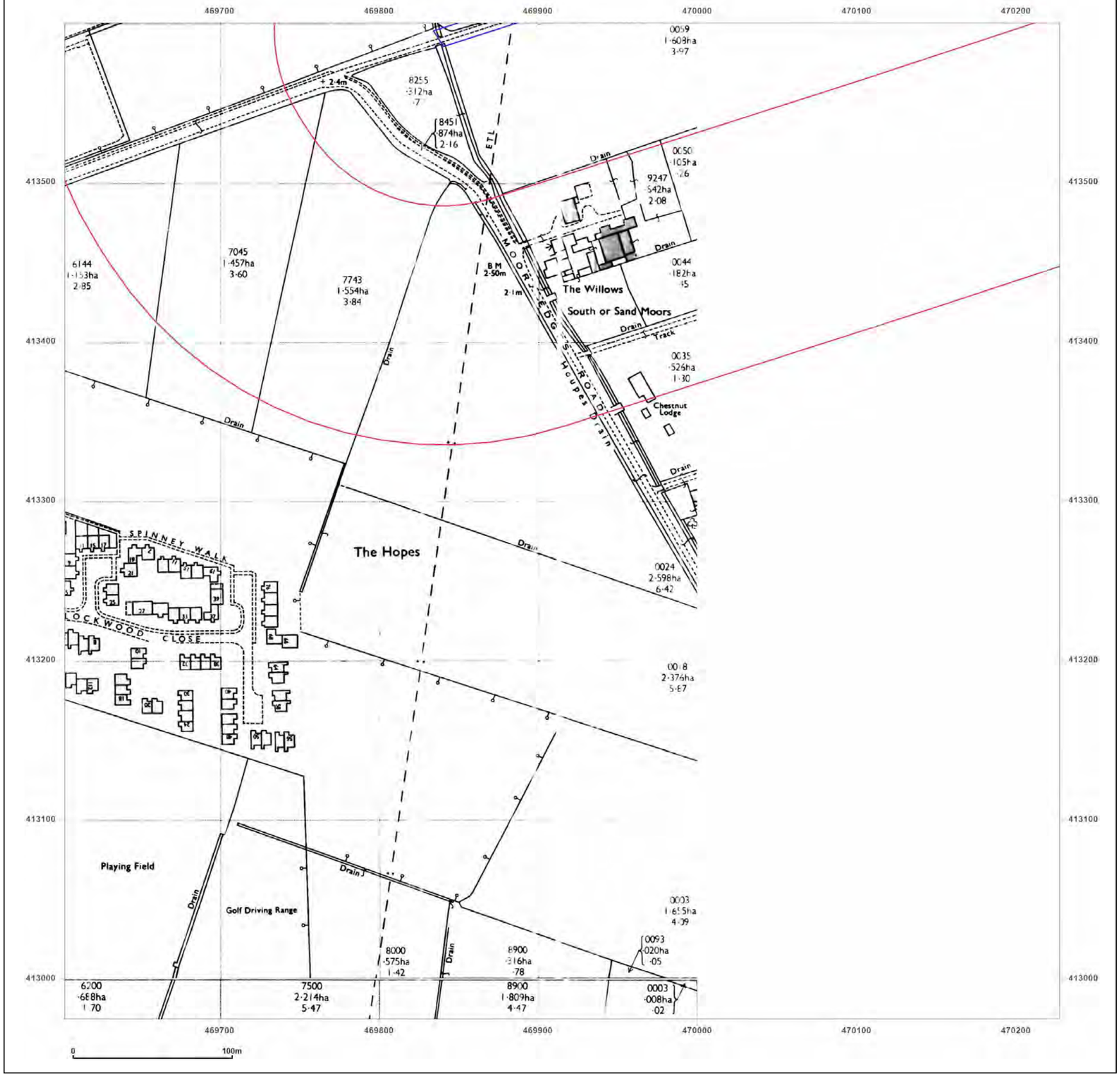
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_8
Grid Ref: 469915, 413287

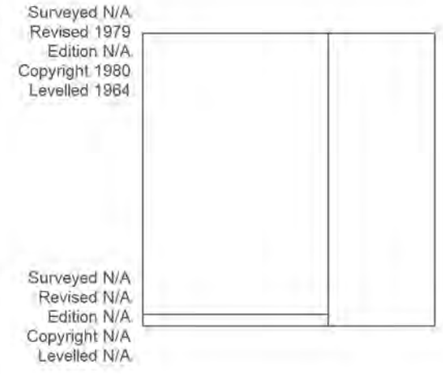
Map Name: National Grid

Map date: **1976-1980**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



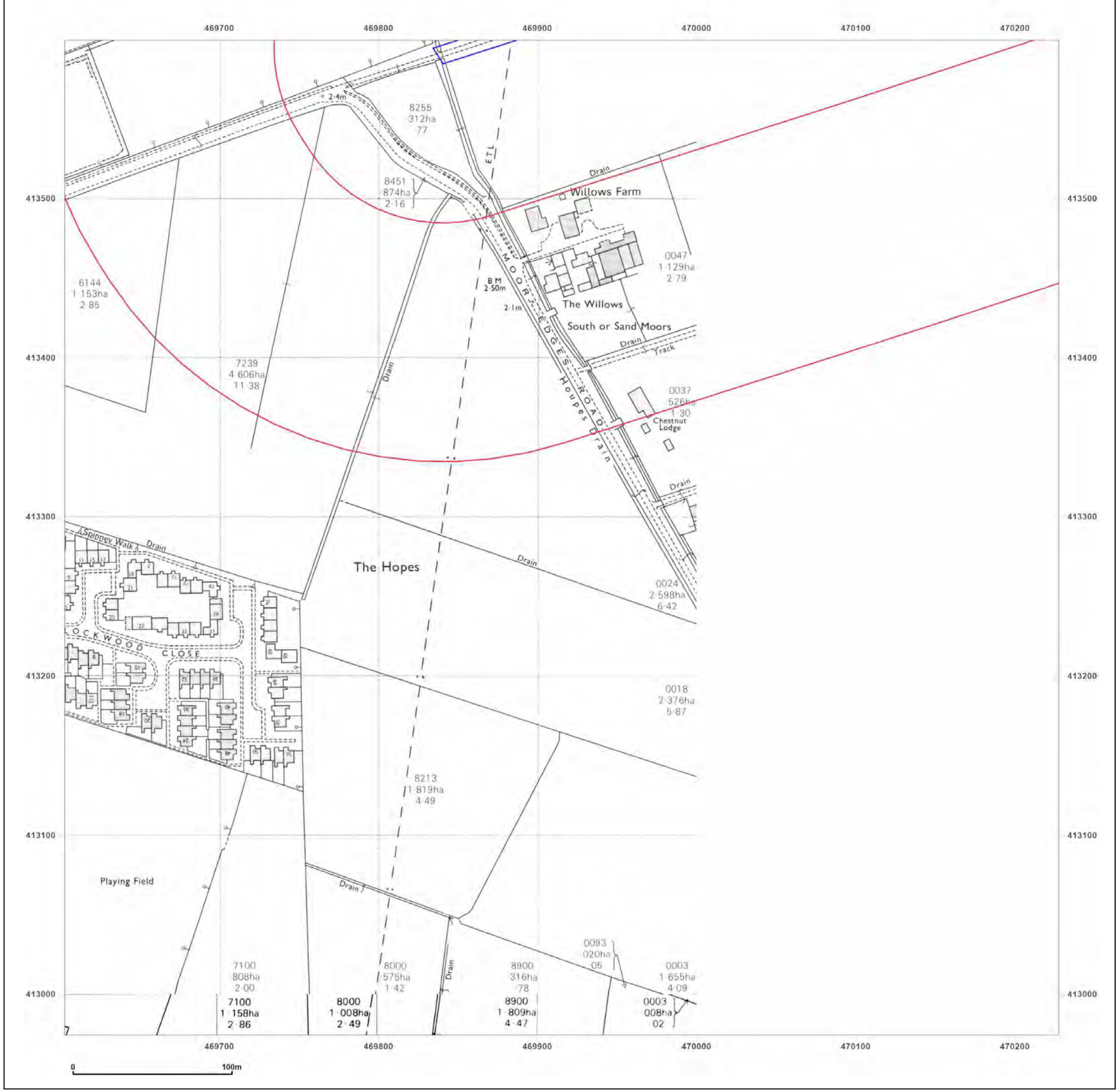
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_8
Grid Ref: 469915, 413287

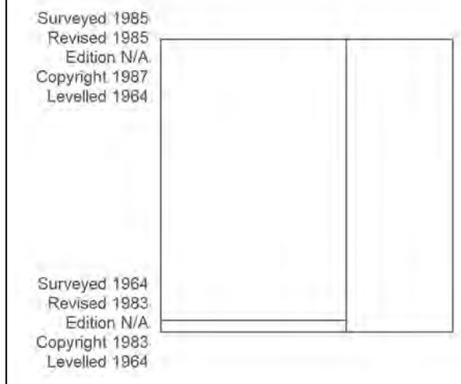
Map Name: National Grid

Map date: **1983-1987**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_8
Grid Ref: 469915, 413287

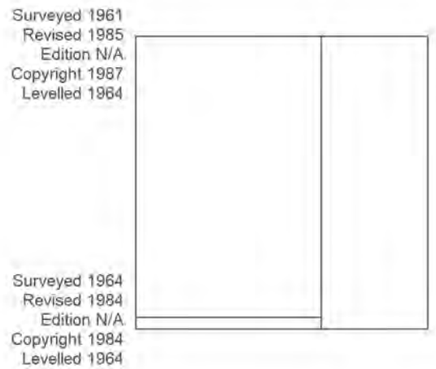
Map Name: National Grid

Map date: **1984-1987**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



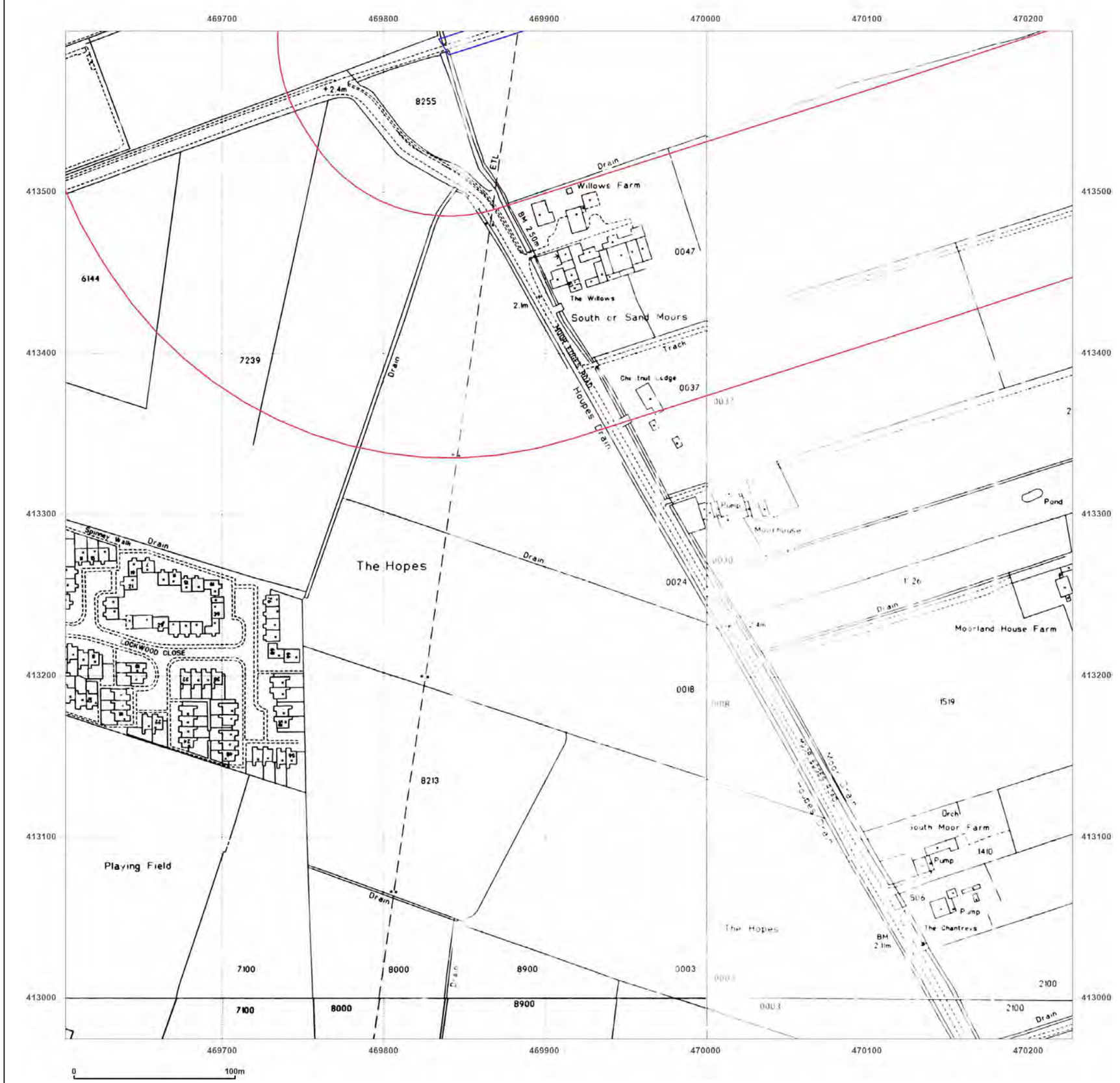
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_8
Grid Ref: 469915, 413287

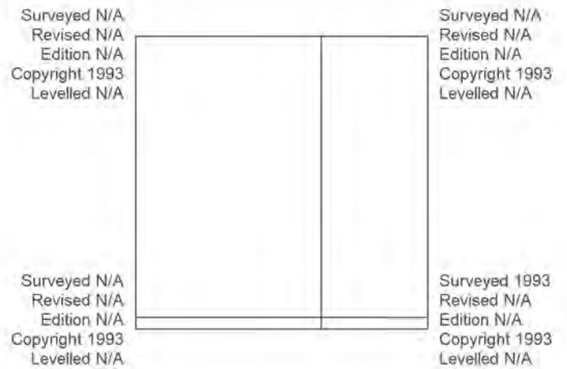
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



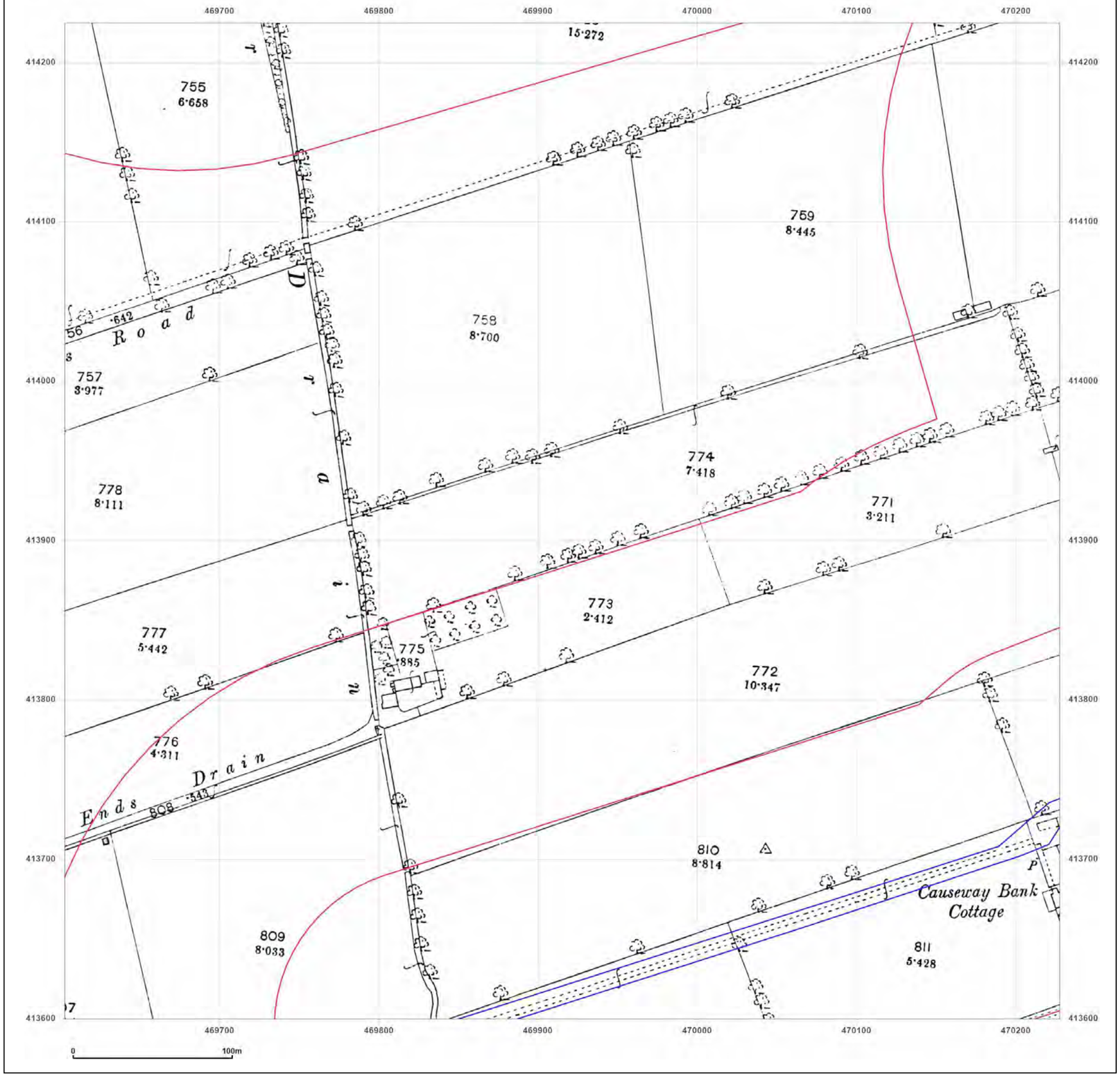
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_9
Grid Ref: 469915, 413912

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1890
Revised N/A
Edition 1892
Copyright N/A
Levelled N/A

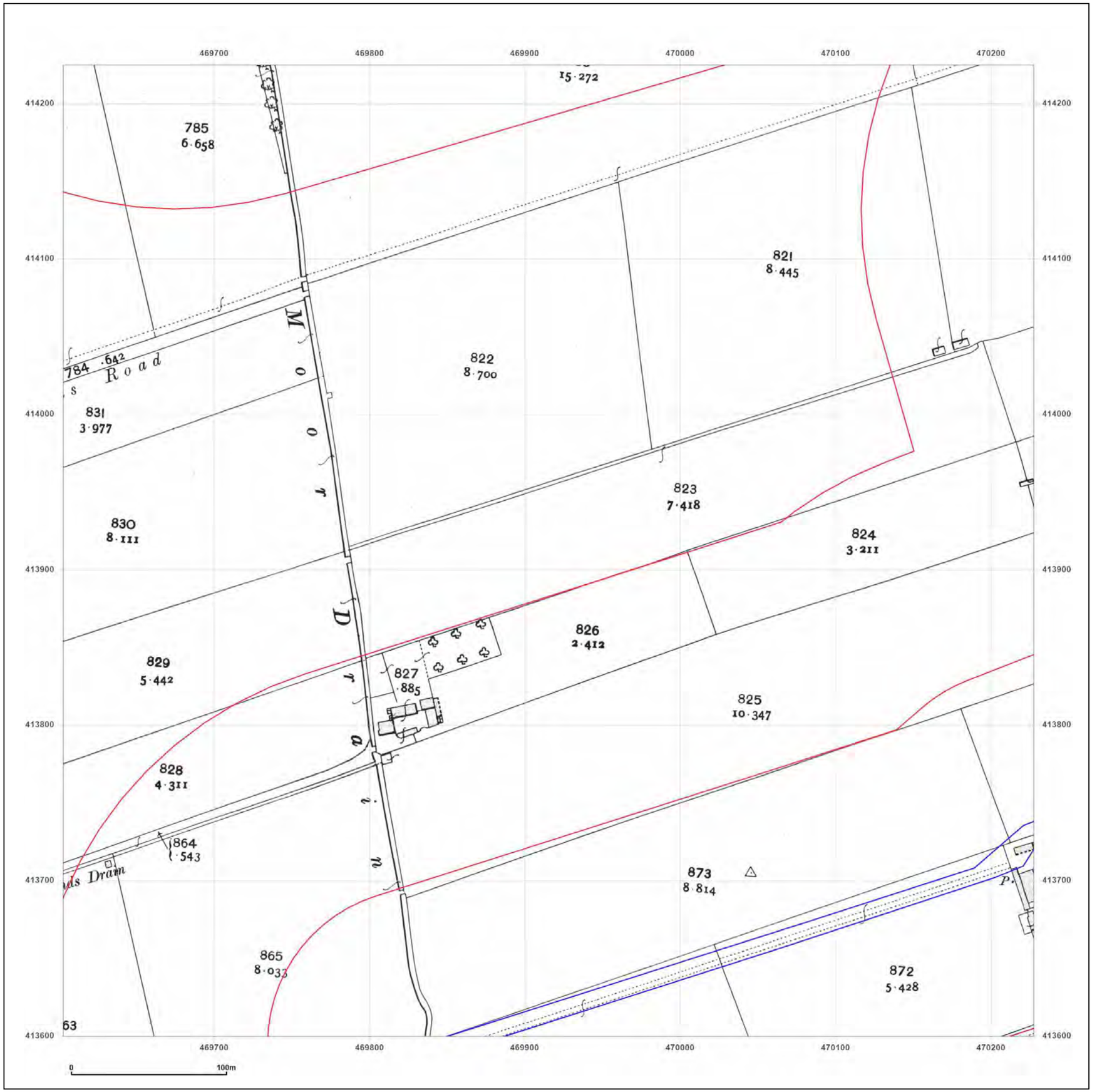
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_9
Grid Ref: 469915, 413912

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

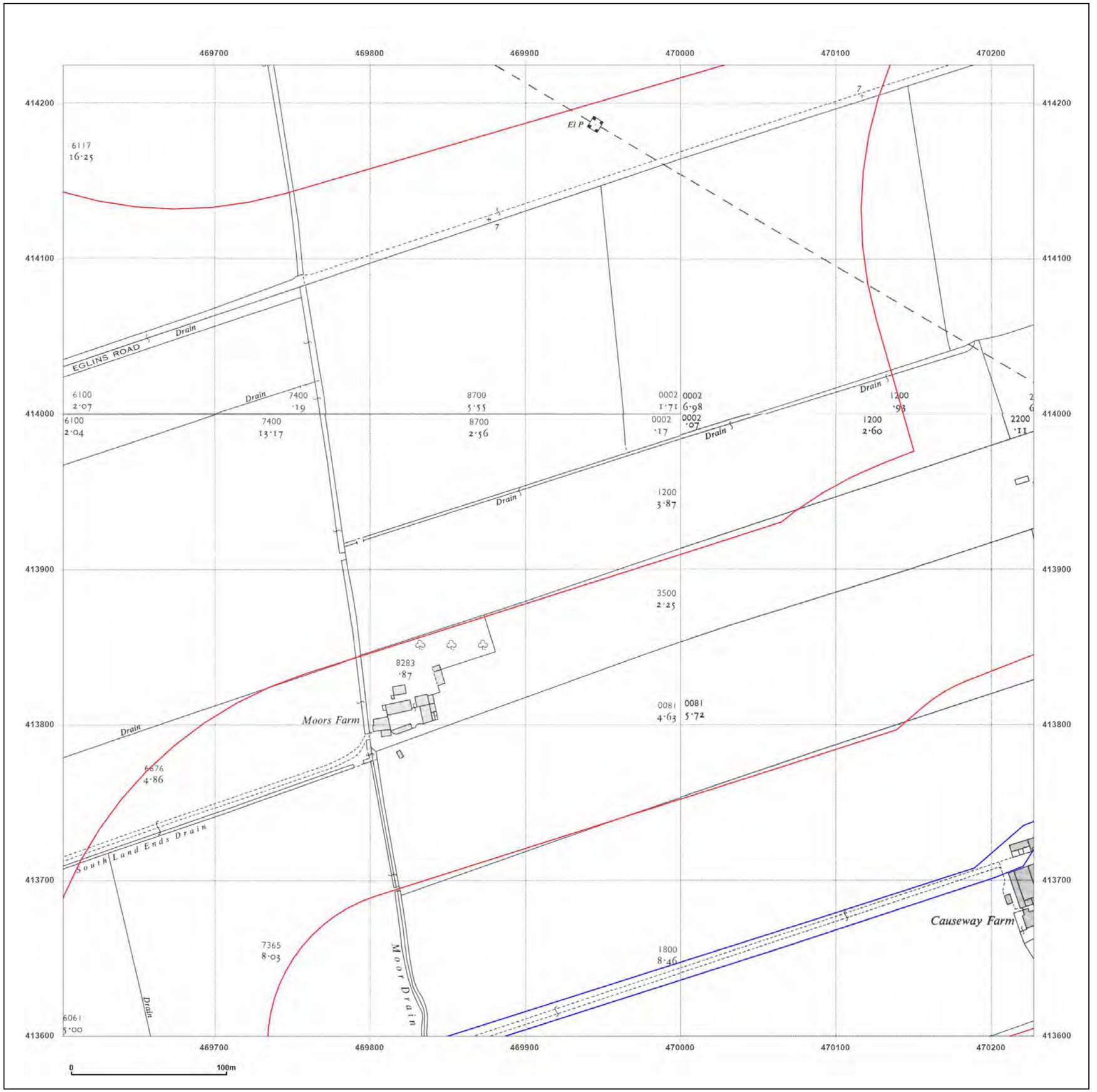
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_9
Grid Ref: 469915, 413912

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed N/A
Revised 1962
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

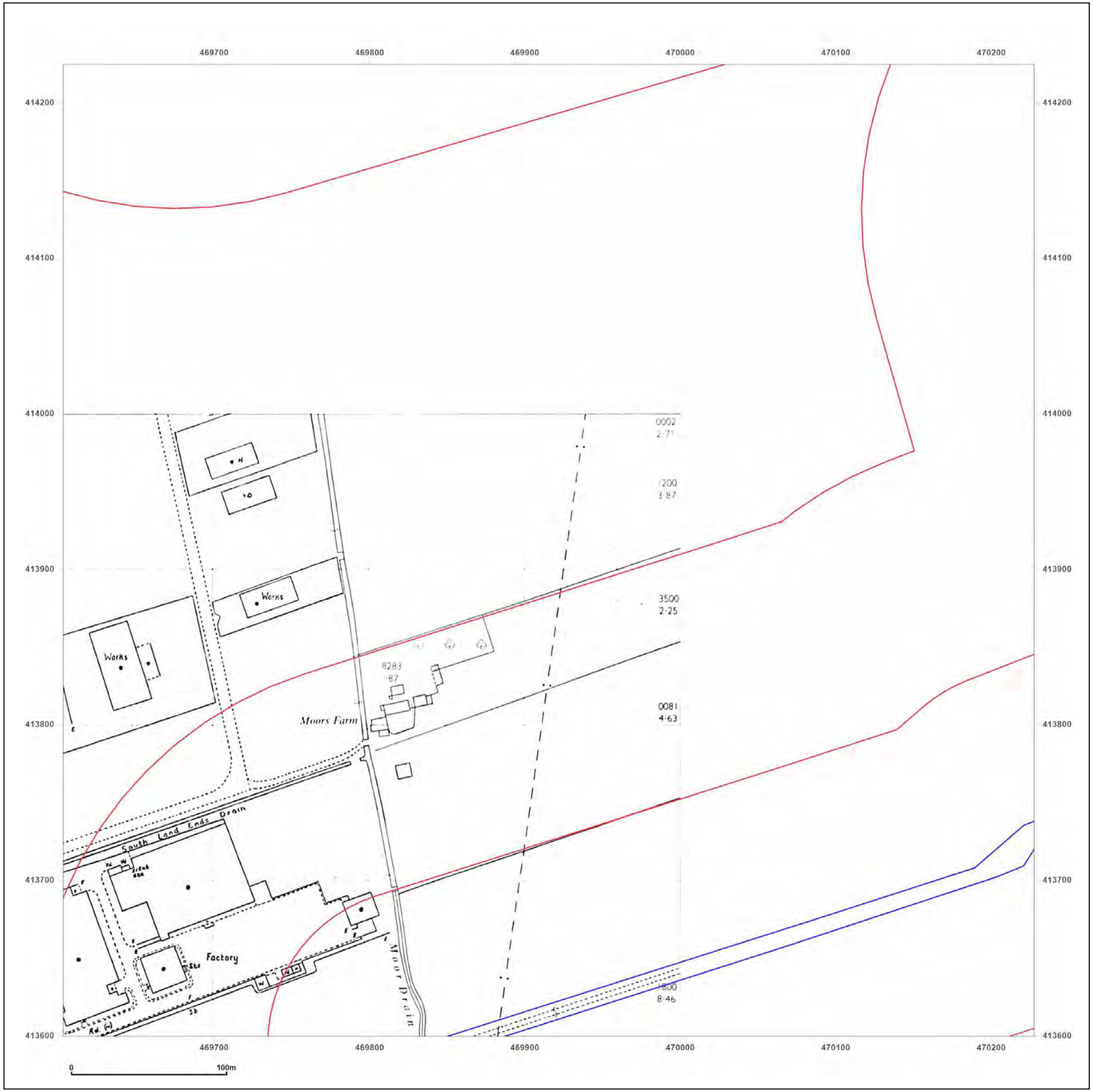
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_9
Grid Ref: 469915, 413912

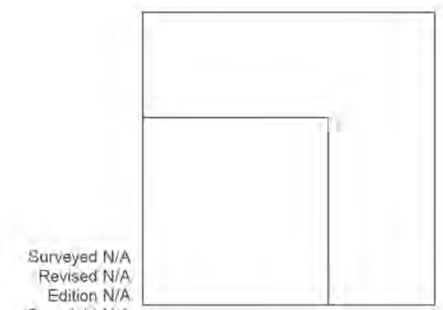
Map Name: National Grid

Map date: **1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



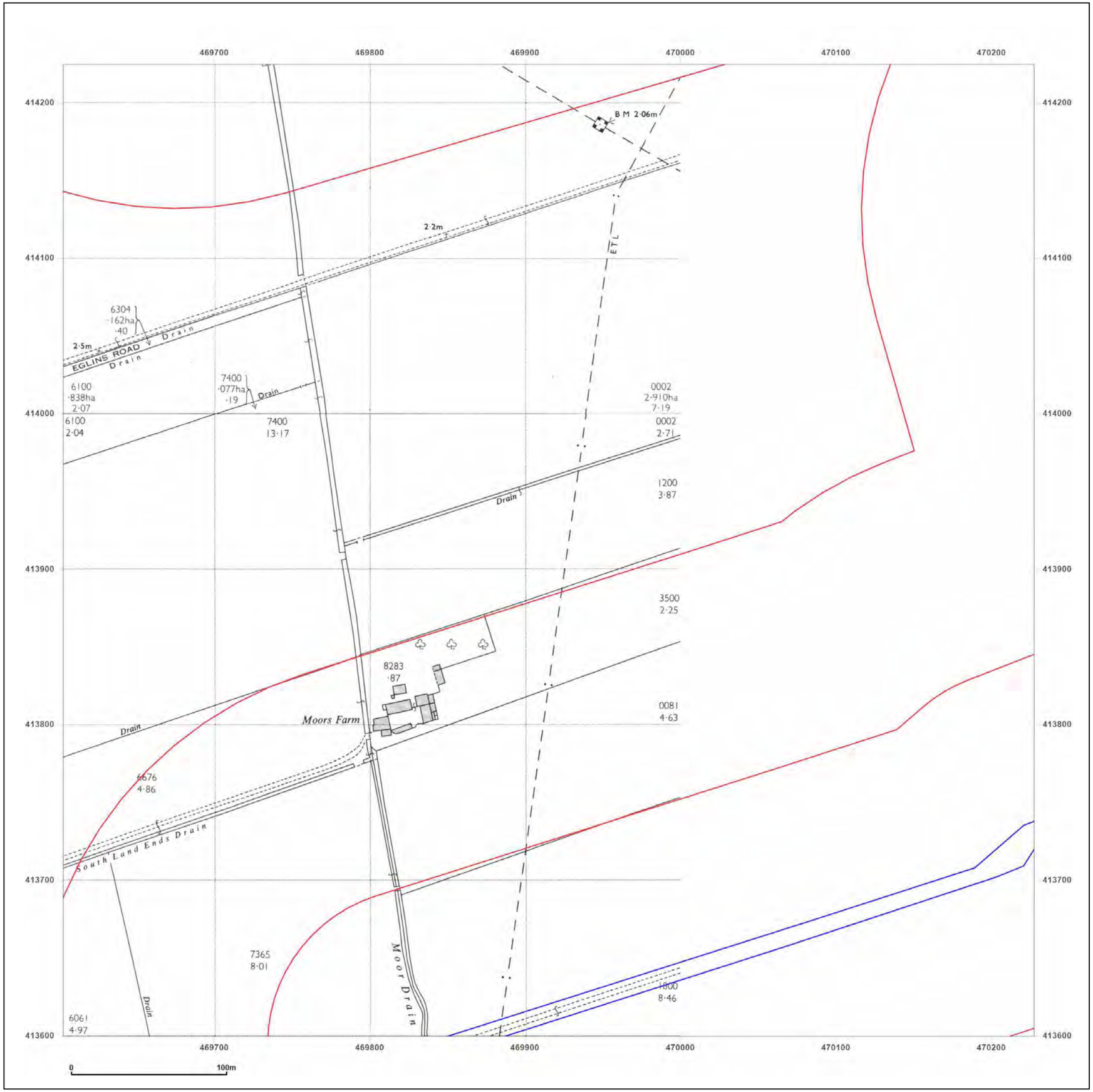
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_9
Grid Ref: 469915, 413912

Map Name: National Grid

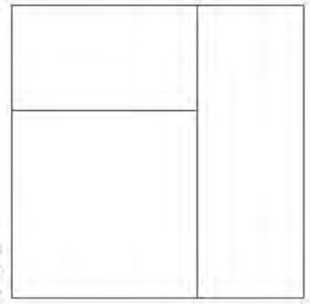
Map date: **1967-1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1970
Revised 1970
Edition N/A
Copyright 1971
Levelled 1964



Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1964

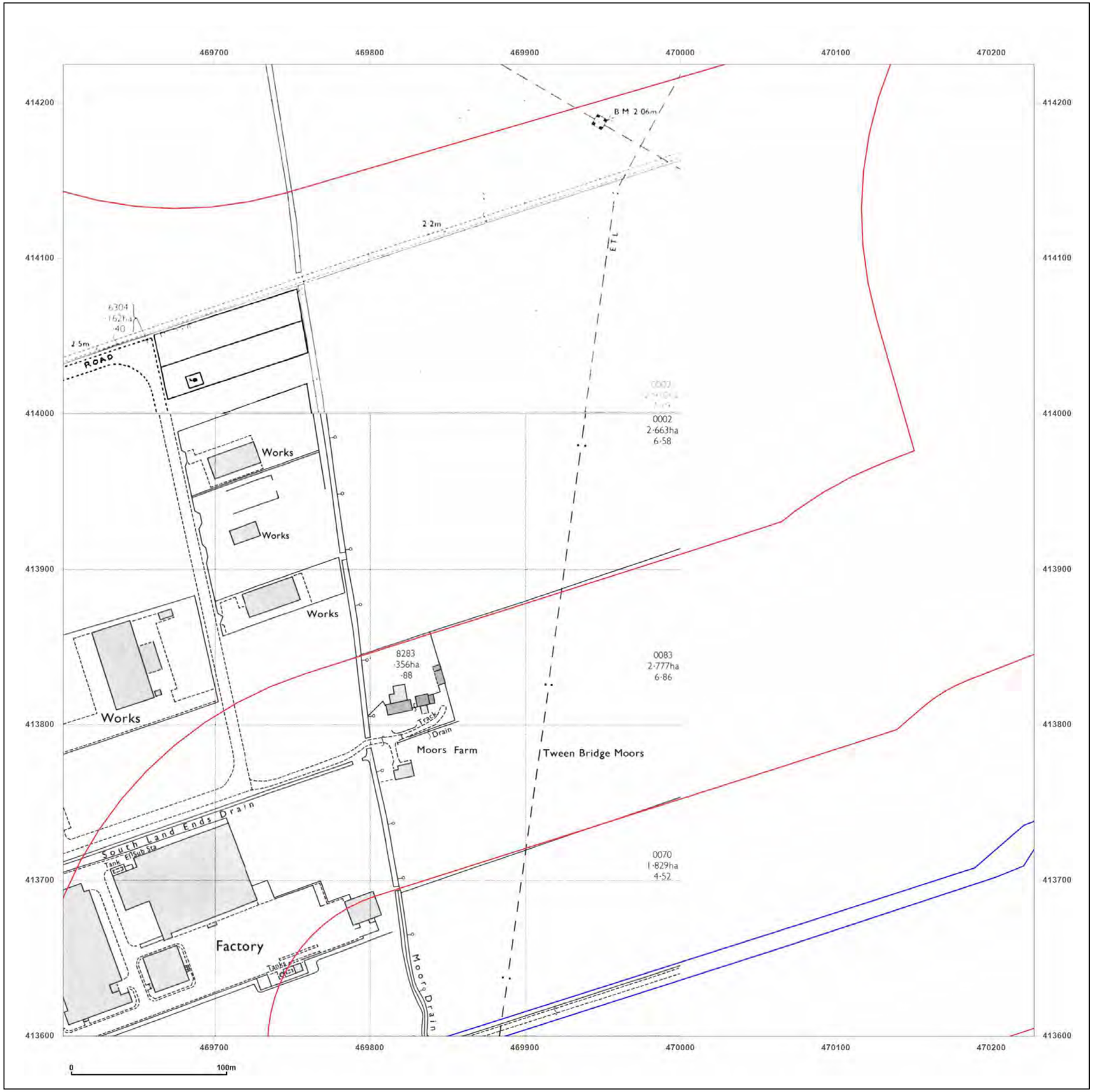
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_9
Grid Ref: 469915, 413912

Map Name: National Grid

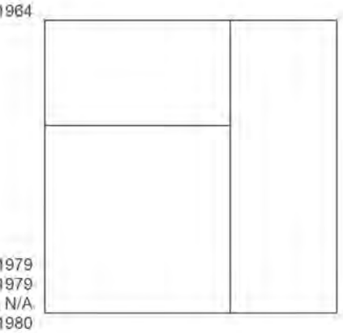
Map date: **1979-1980**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition 1979
Copyright N/A
Levelled 1964



Surveyed 1979
Revised 1979
Edition N/A
Copyright 1980
Levelled 1964

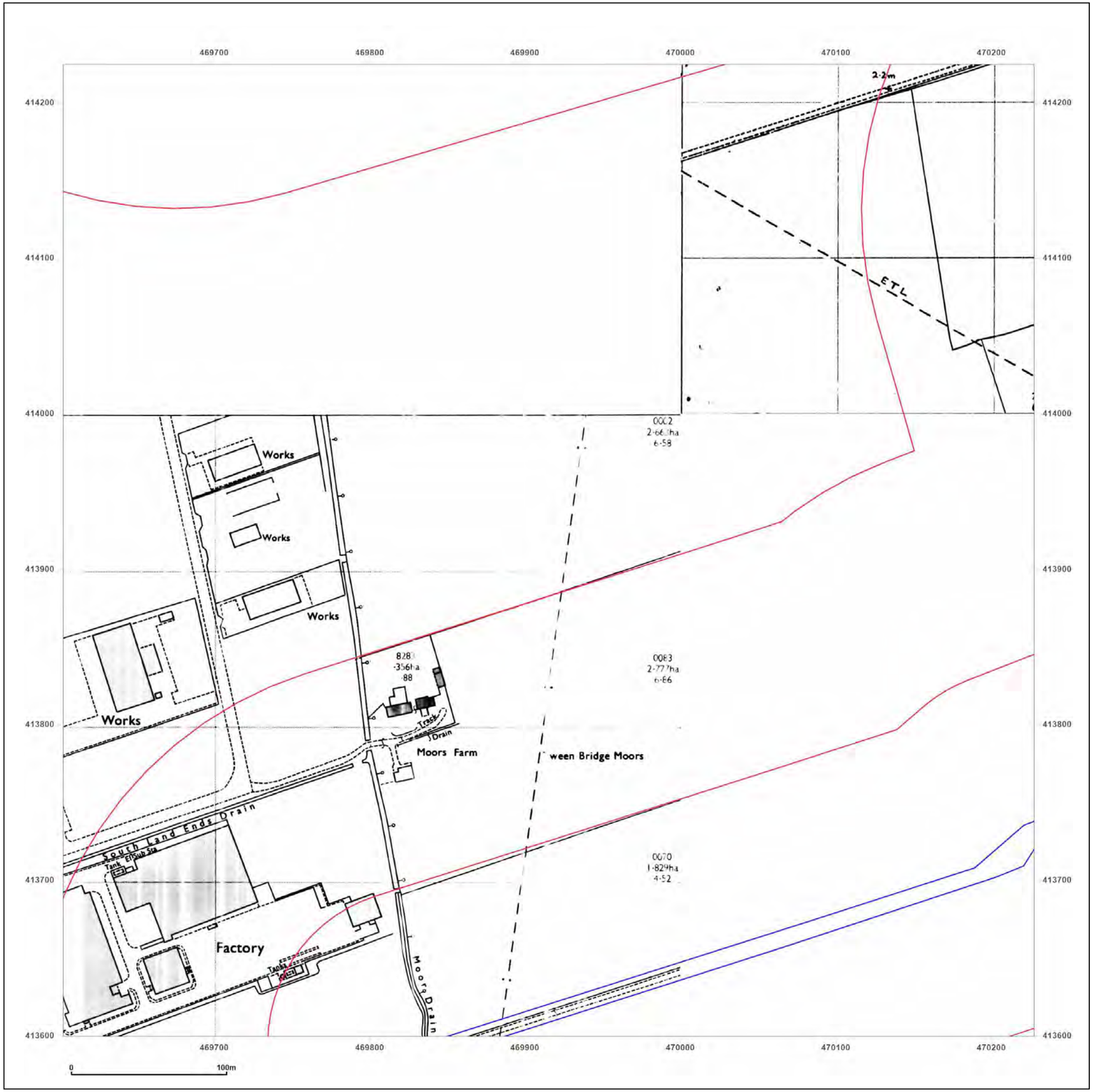
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_9
Grid Ref: 469915, 413912

Map Name: National Grid

Map date: **1980-1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964

Surveyed N/A
Revised 1979
Edition N/A
Copyright 1980
Levelled 1964

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_9
Grid Ref: 469915, 413912

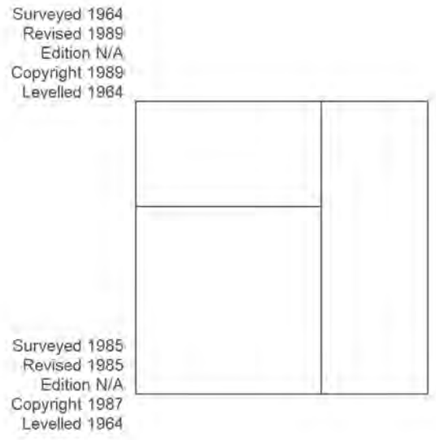
Map Name: National Grid

Map date: **1987-1989**

Scale: 1:2,500

Printed at: 1:2,500

N
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_9
Grid Ref: 469915, 413912

Map Name: National Grid

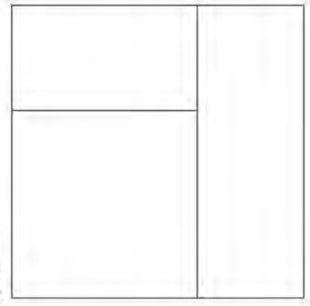
Map date: **1987-1990**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1964
Revised 1990
Edition N/A
Copyright 1990
Levelled 1964



Surveyed 1961
Revised 1985
Edition N/A
Copyright 1987
Levelled 1964

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_9
Grid Ref: 469915, 413912

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

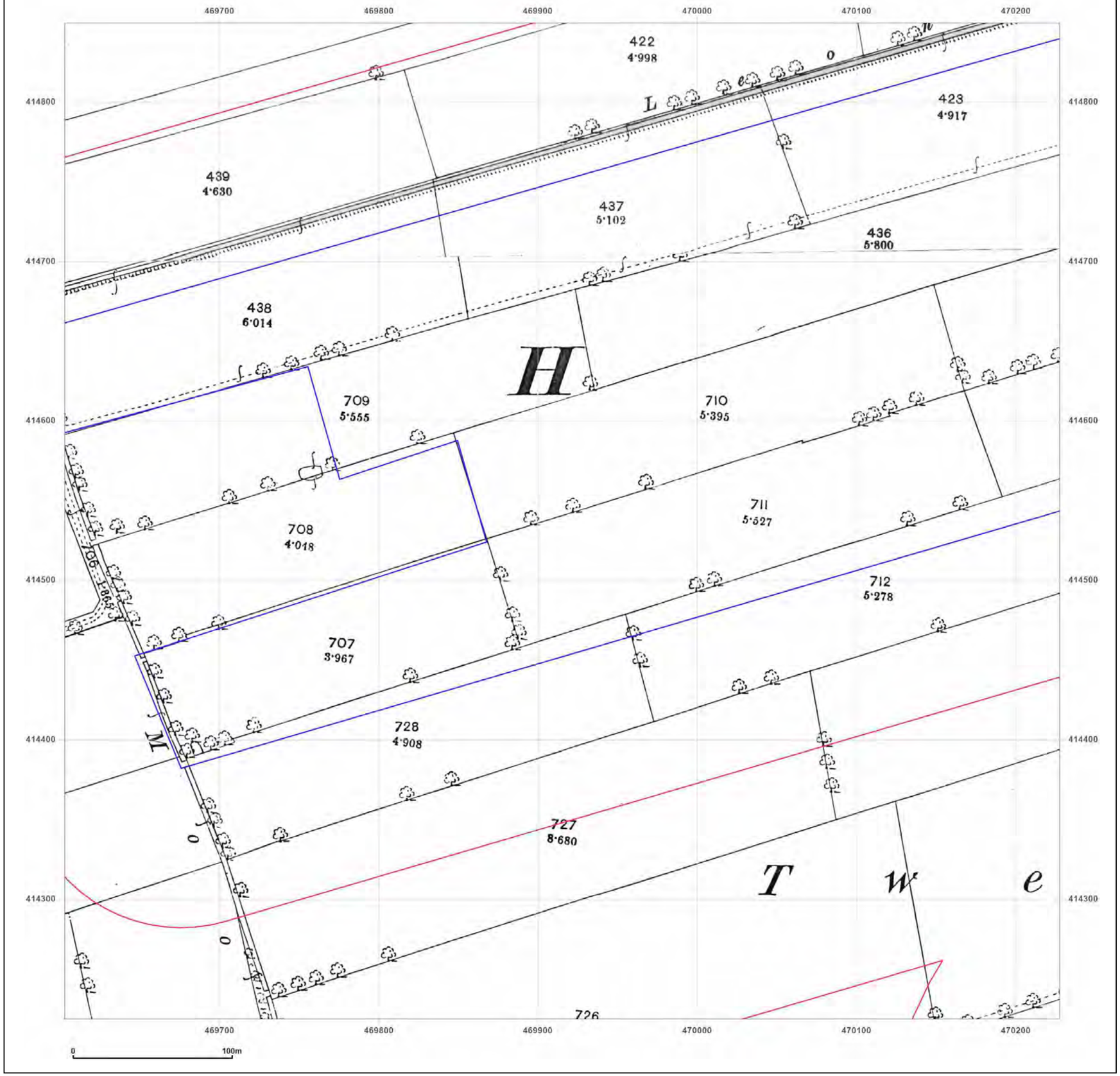
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_10
Grid Ref: 469915, 414537

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1890
Revised N/A
Edition 1892
Copyright N/A
Levelled N/A

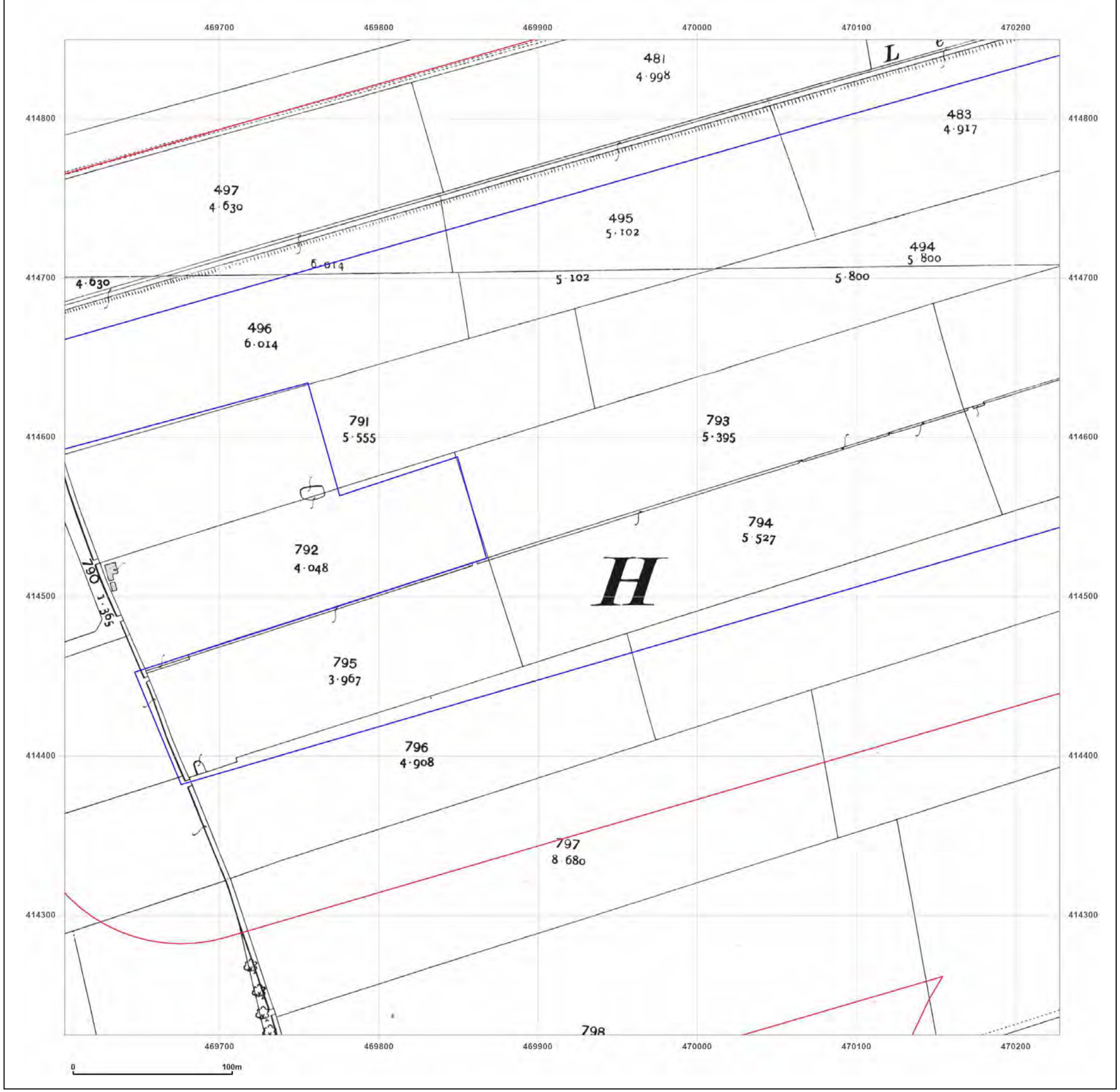
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_10
Grid Ref: 469915, 414537

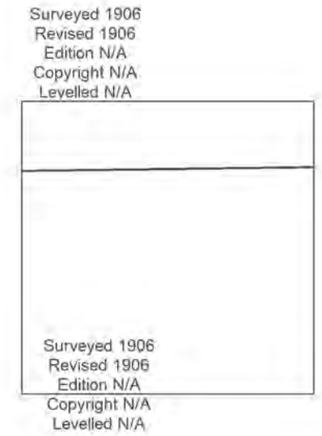
Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



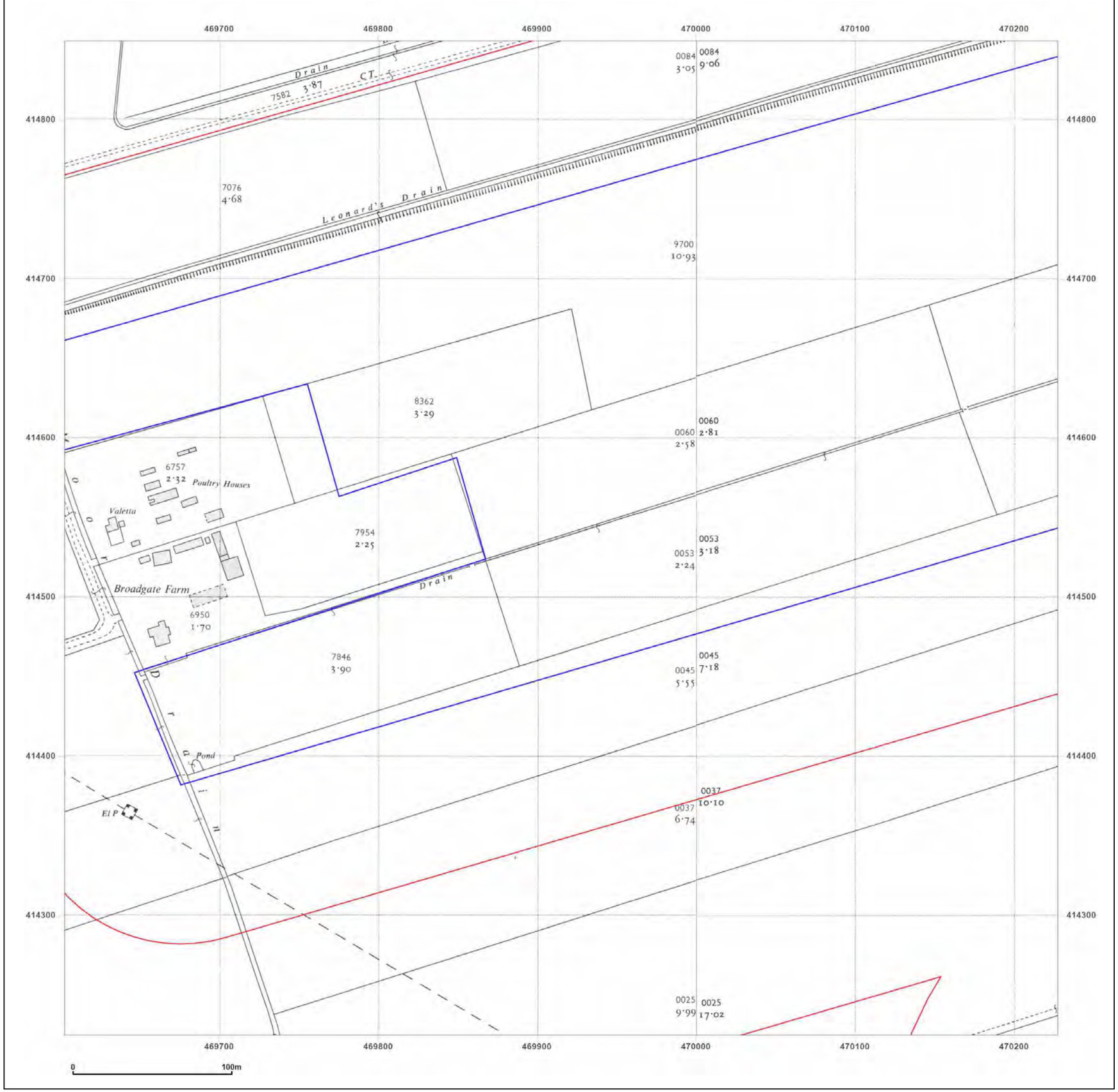
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_10
Grid Ref: 469915, 414537

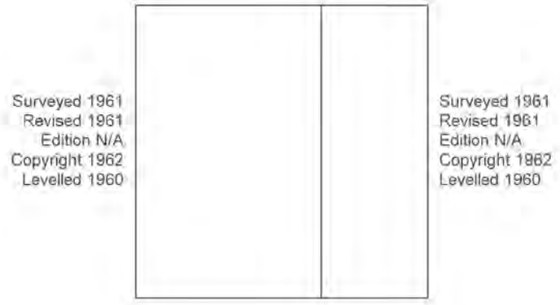
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



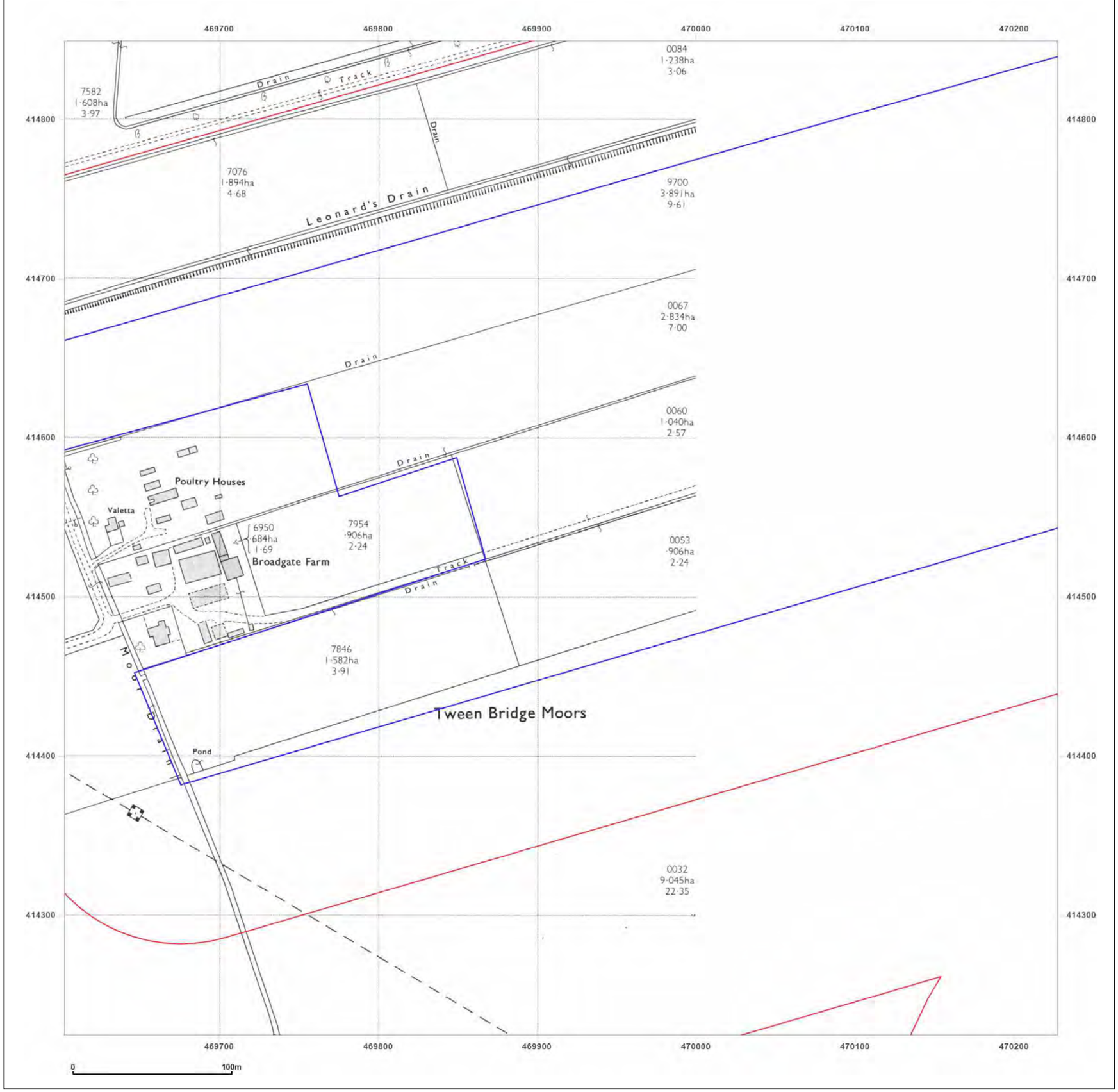
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_10
Grid Ref: 469915, 414537

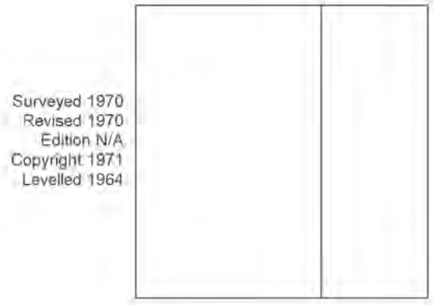
Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



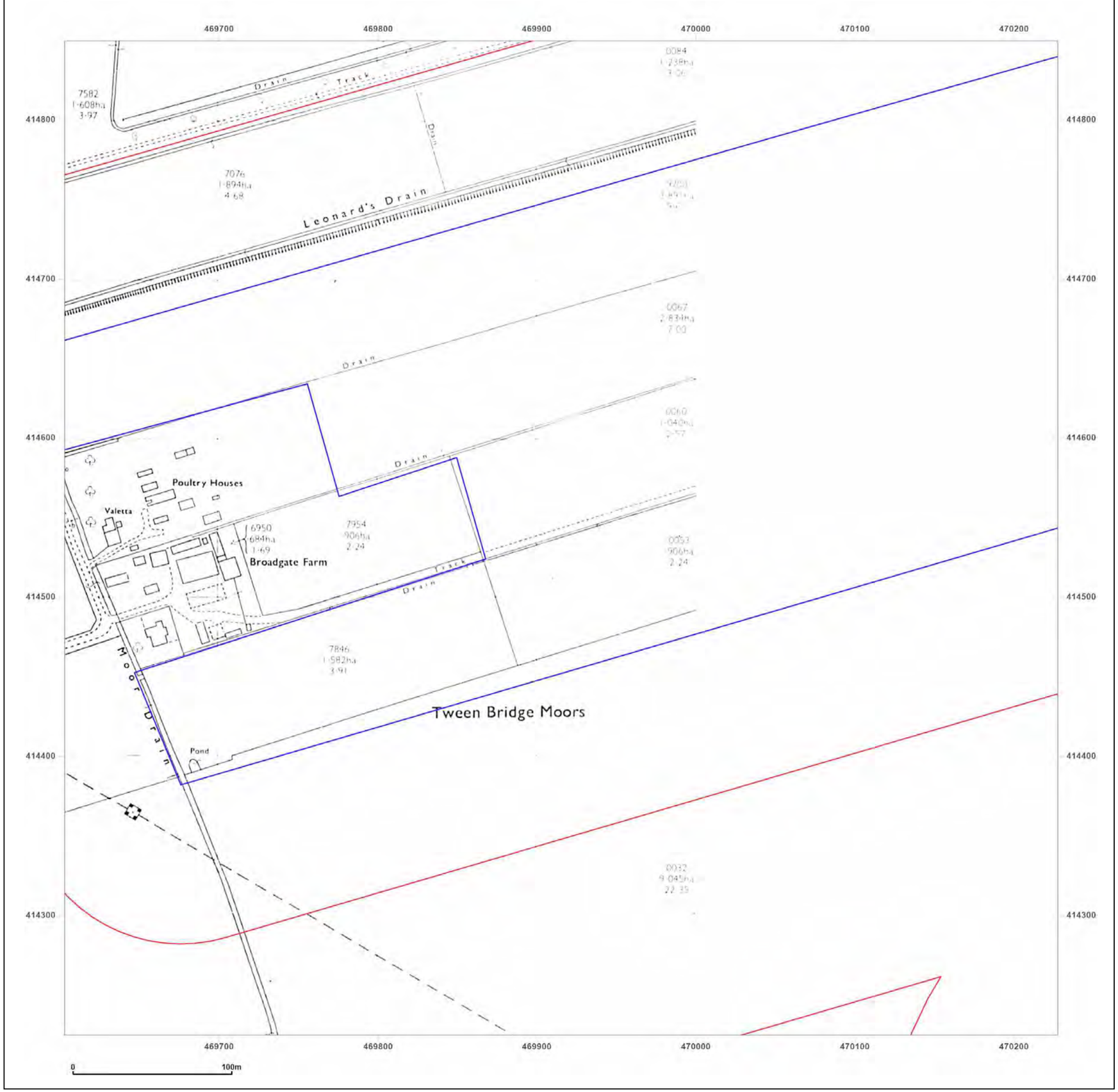
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_10
Grid Ref: 469915, 414537

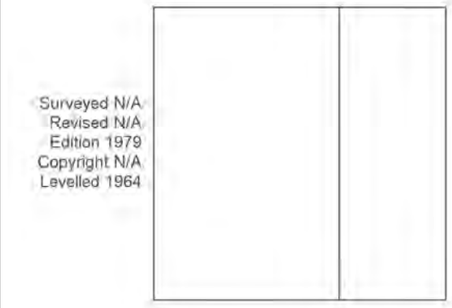
Map Name: National Grid

Map date: **1979**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



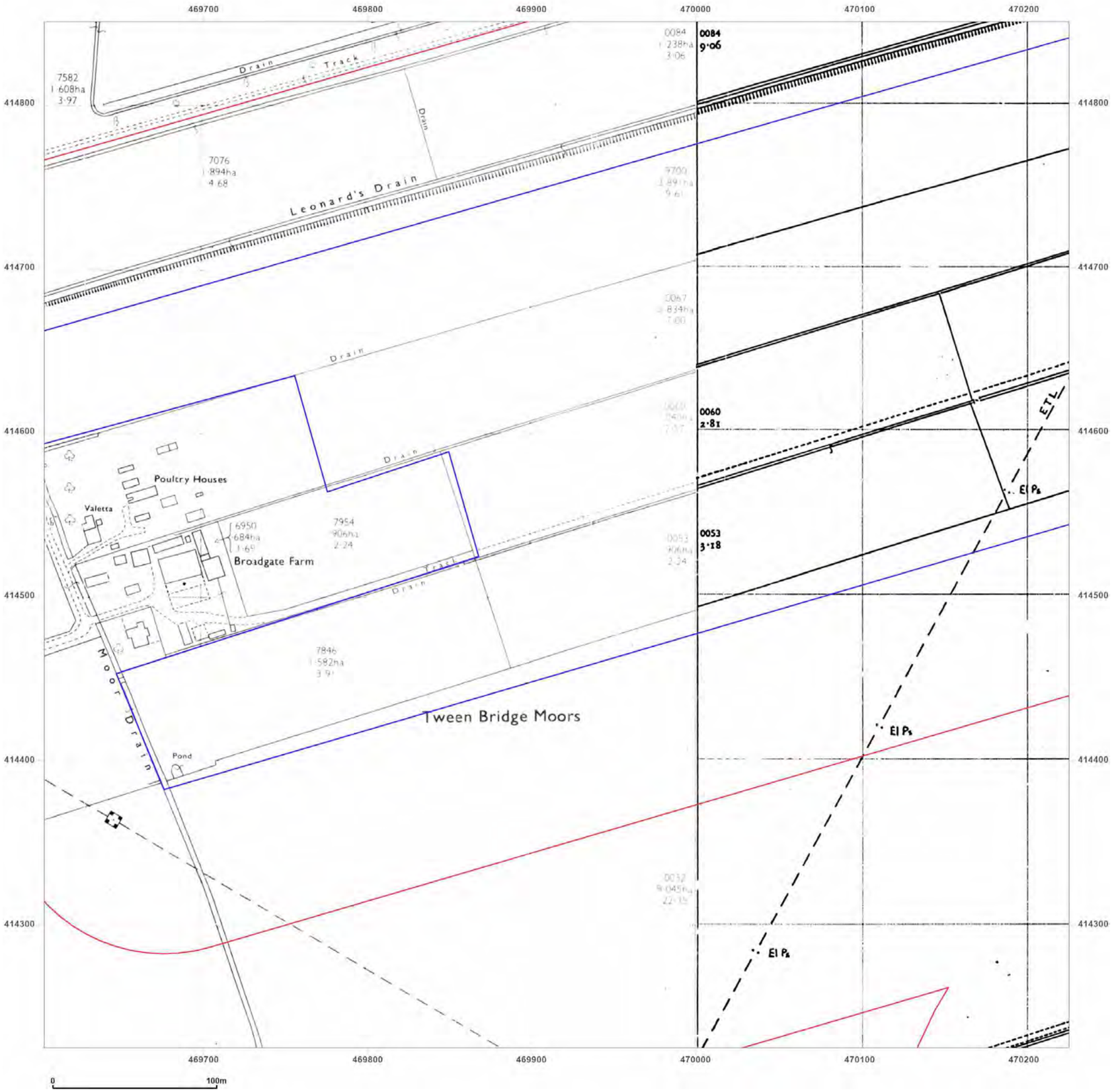
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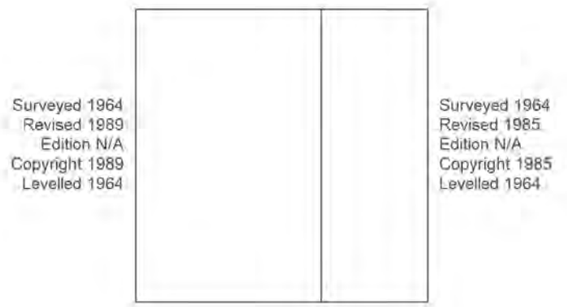
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_10
Grid Ref: 469915, 414537

Map Name: National Grid
Map date: **1985-1989**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



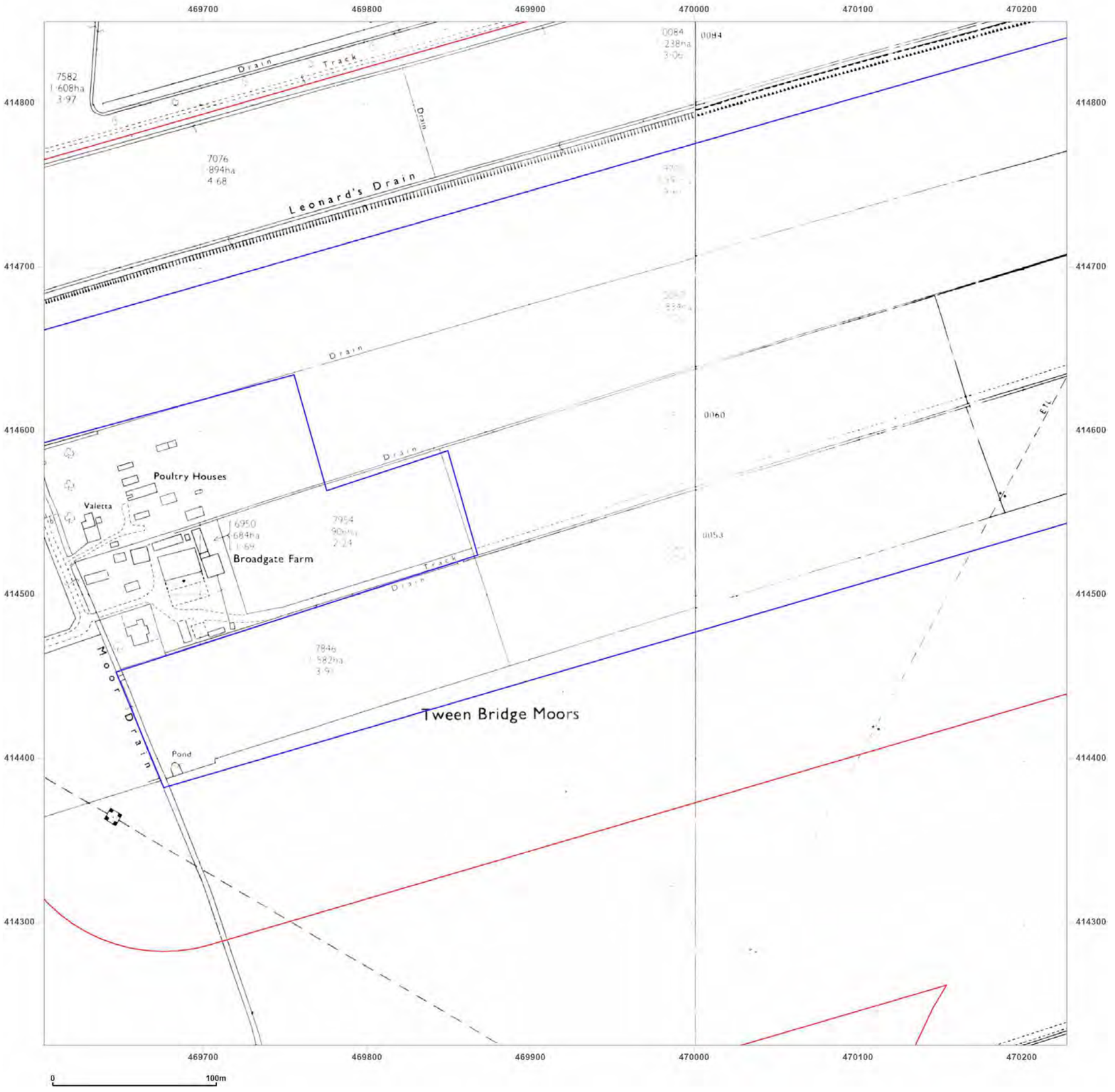
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_10
Grid Ref: 469915, 414537

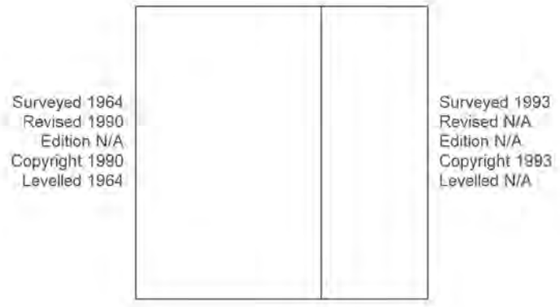
Map Name: National Grid

Map date: **1990-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



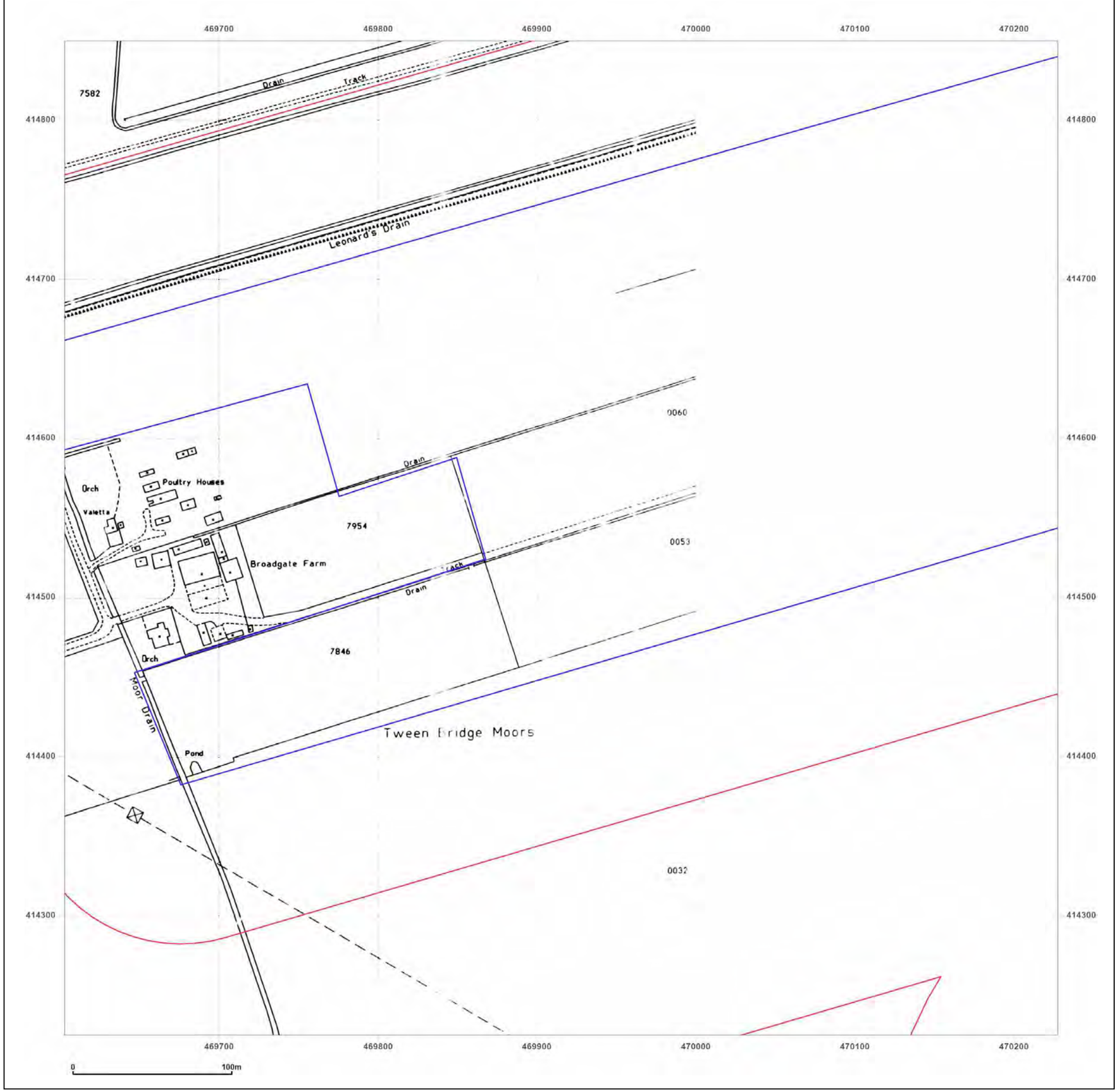
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_10
Grid Ref: 469915, 414537

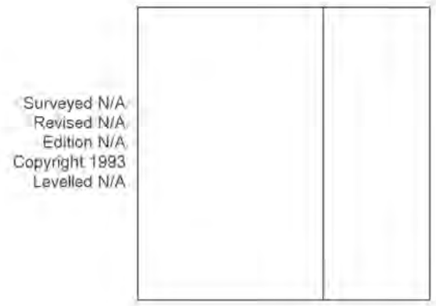
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



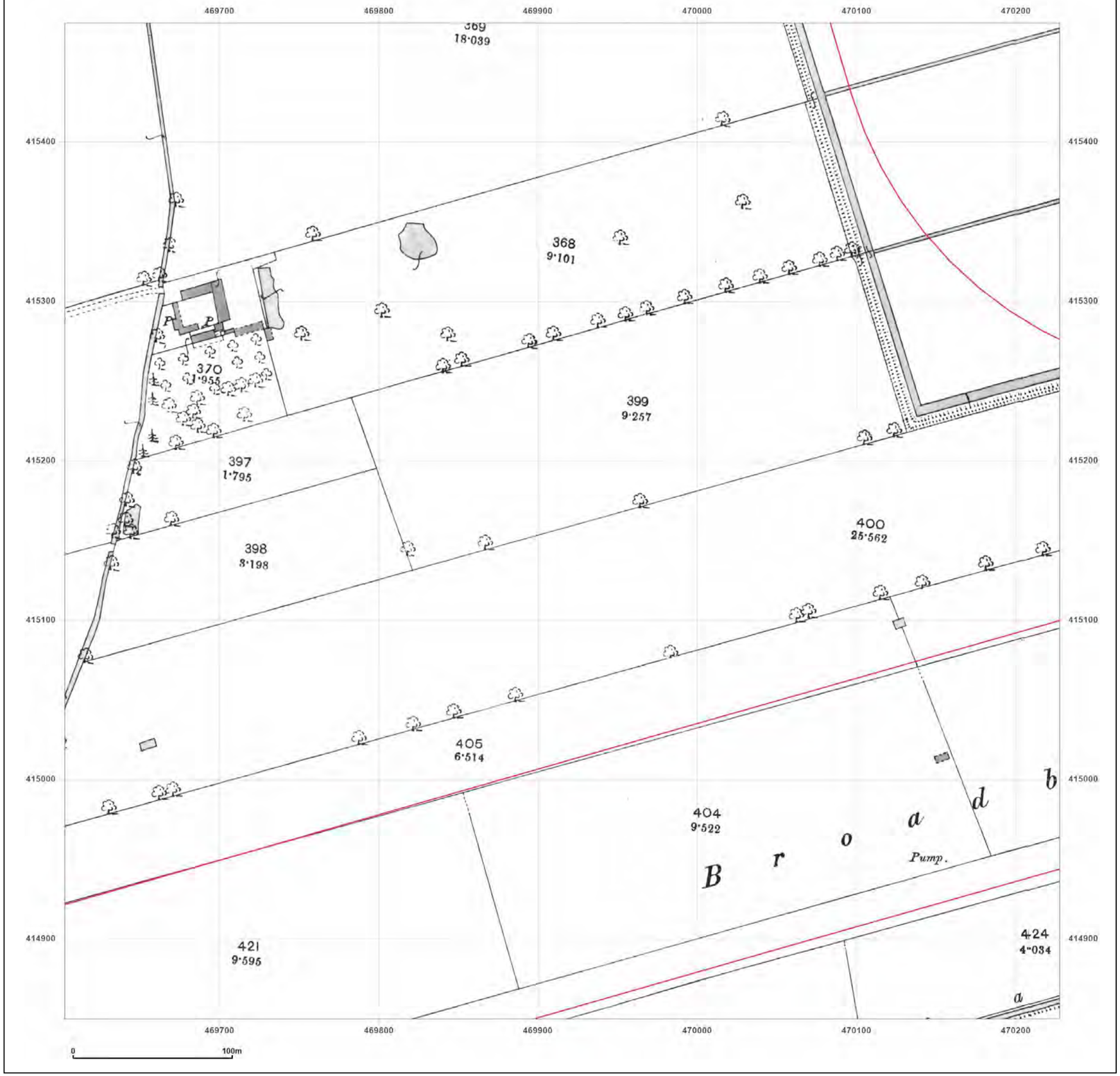
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

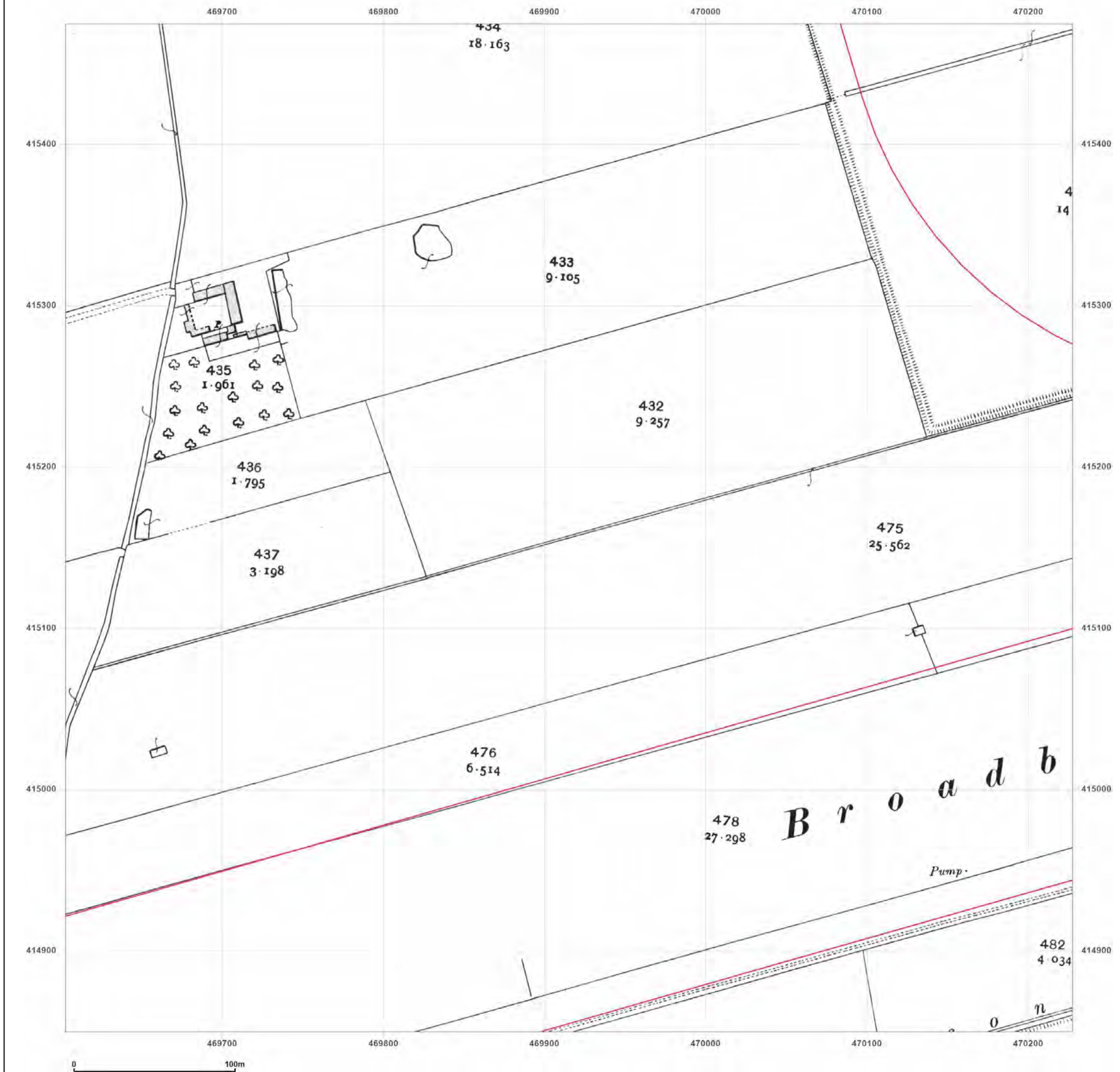
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

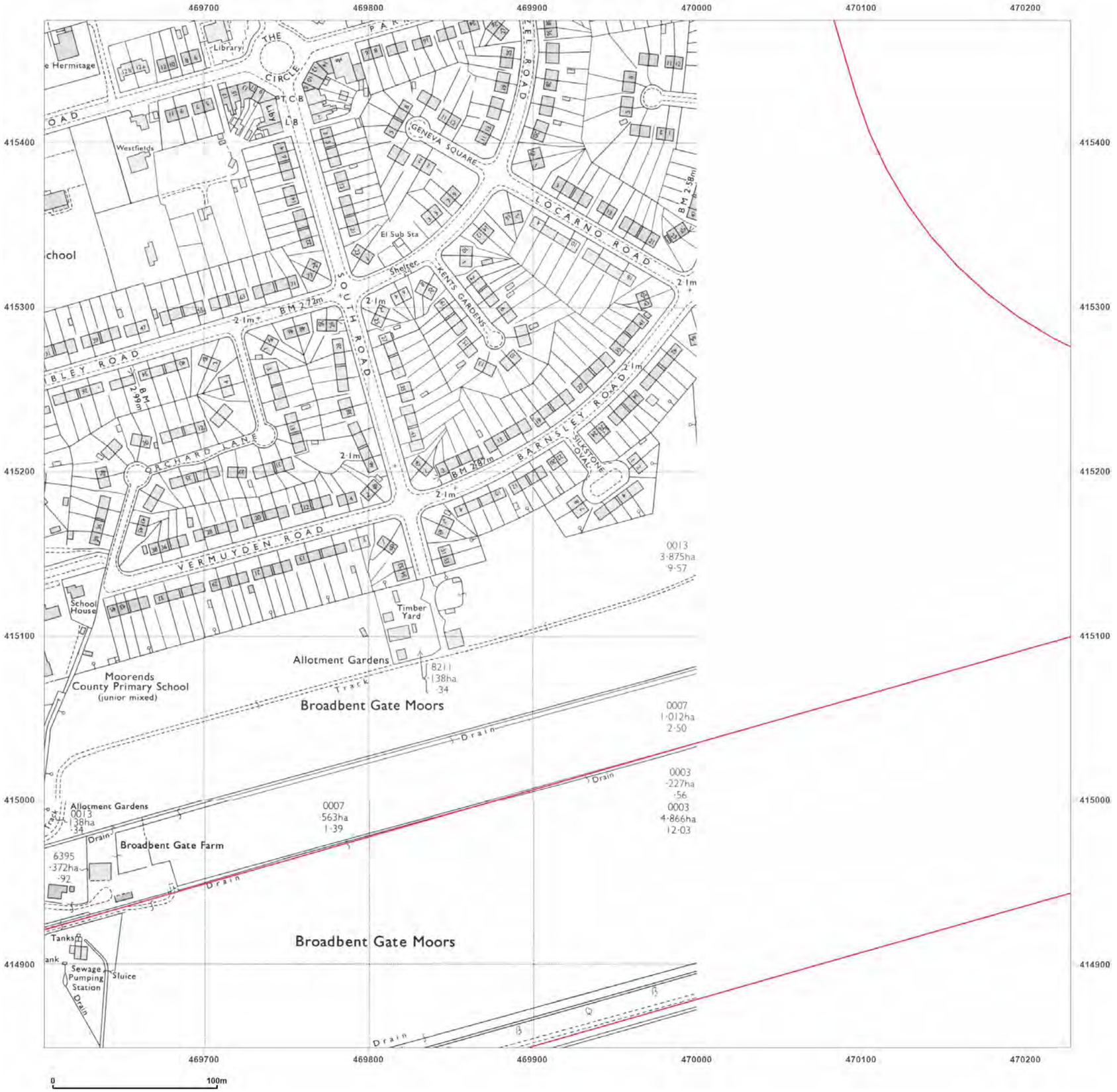
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

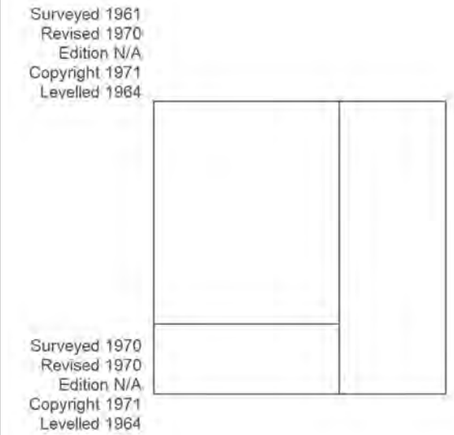
Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

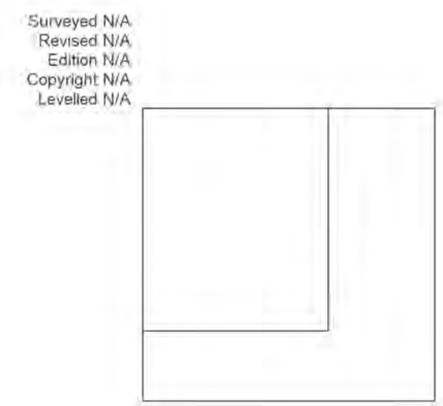
Map Name: National Grid

Map date: **1971**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



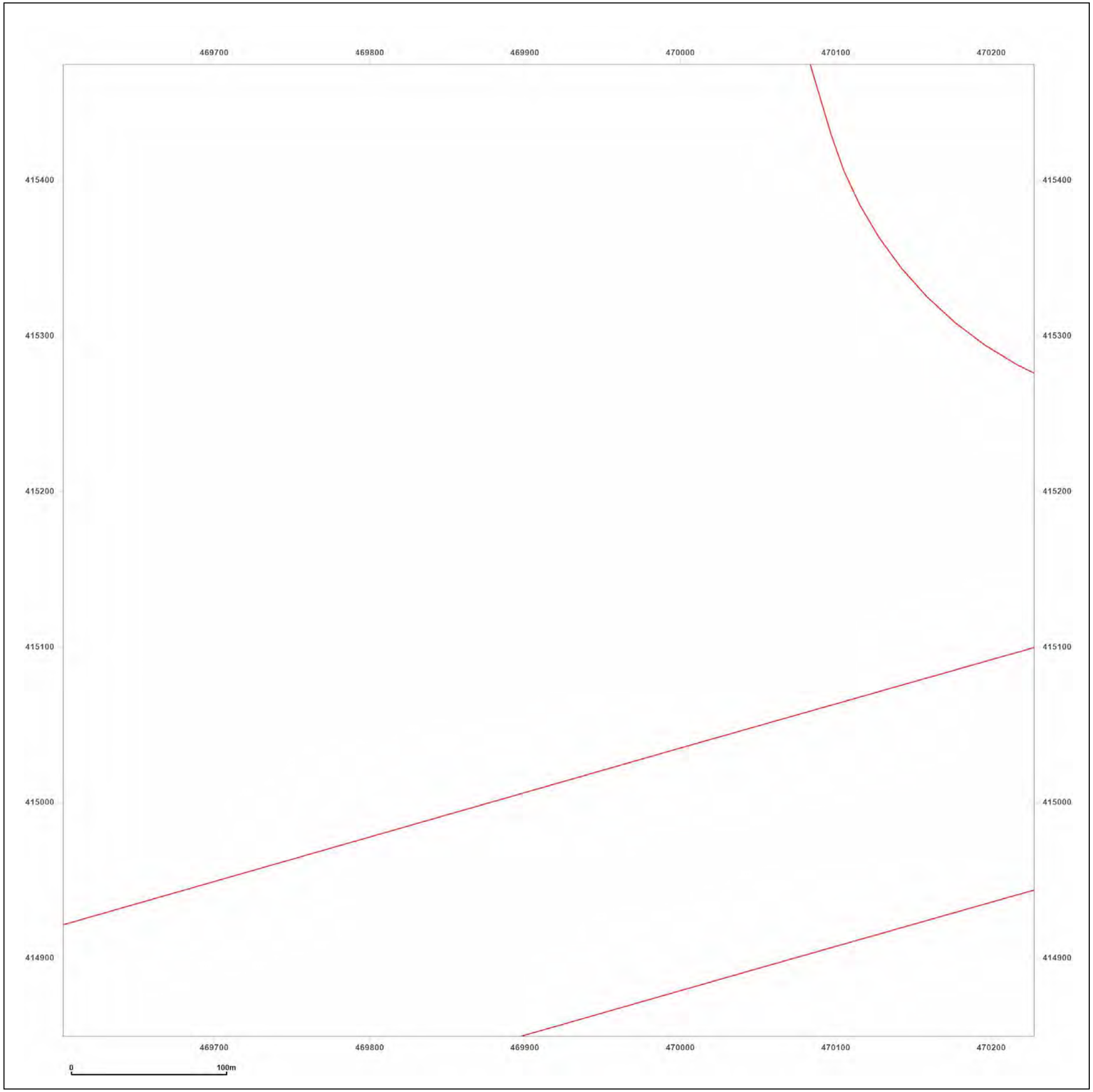
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

Map Name: National Grid

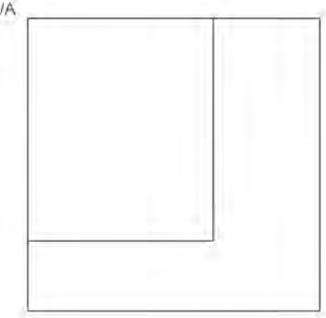
Map date: **1973**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

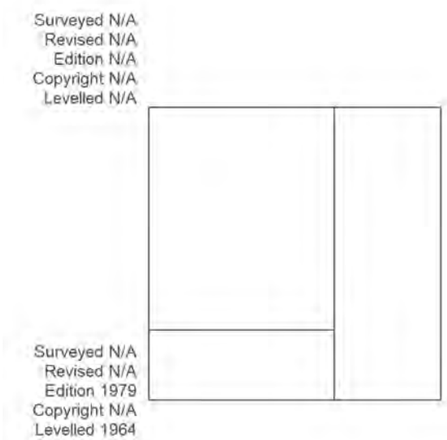
Map Name: National Grid

Map date: **1978-1979**

Scale: 1:2,500

Printed at: 1:2,500

N
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

Map Name: National Grid

Map date: **1985-1989**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1985
Levelled 1964

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964

Surveyed 1964
Revised 1989
Edition N/A
Copyright 1989
Levelled 1964

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

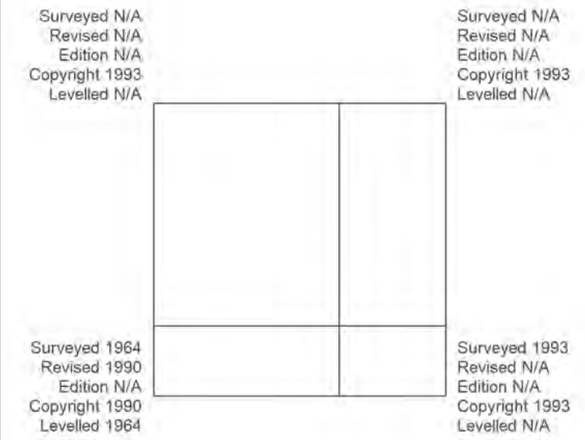
Map Name: National Grid

Map date: **1990-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

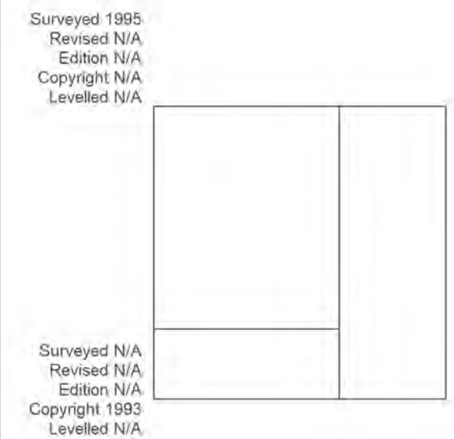
Map Name: National Grid

Map date: **1993-1995**

Scale: 1:2,500

Printed at: 1:2,500

N
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S



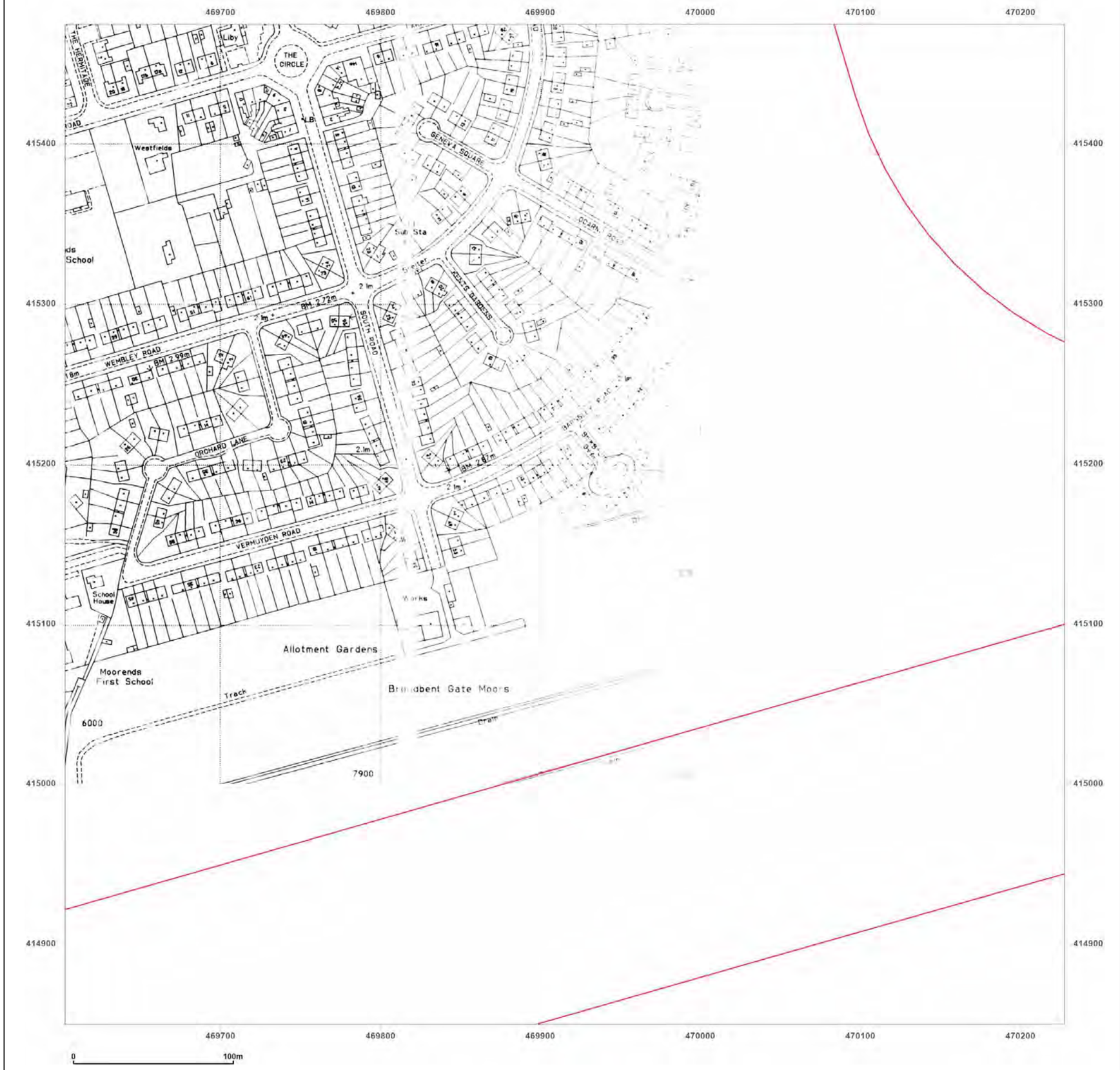
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_11
Grid Ref: 469915, 415162

Map Name: National Grid

Map date: **1995**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1995
Revised N/A
Edition N/A
Copyright 1995
Levelled N/A



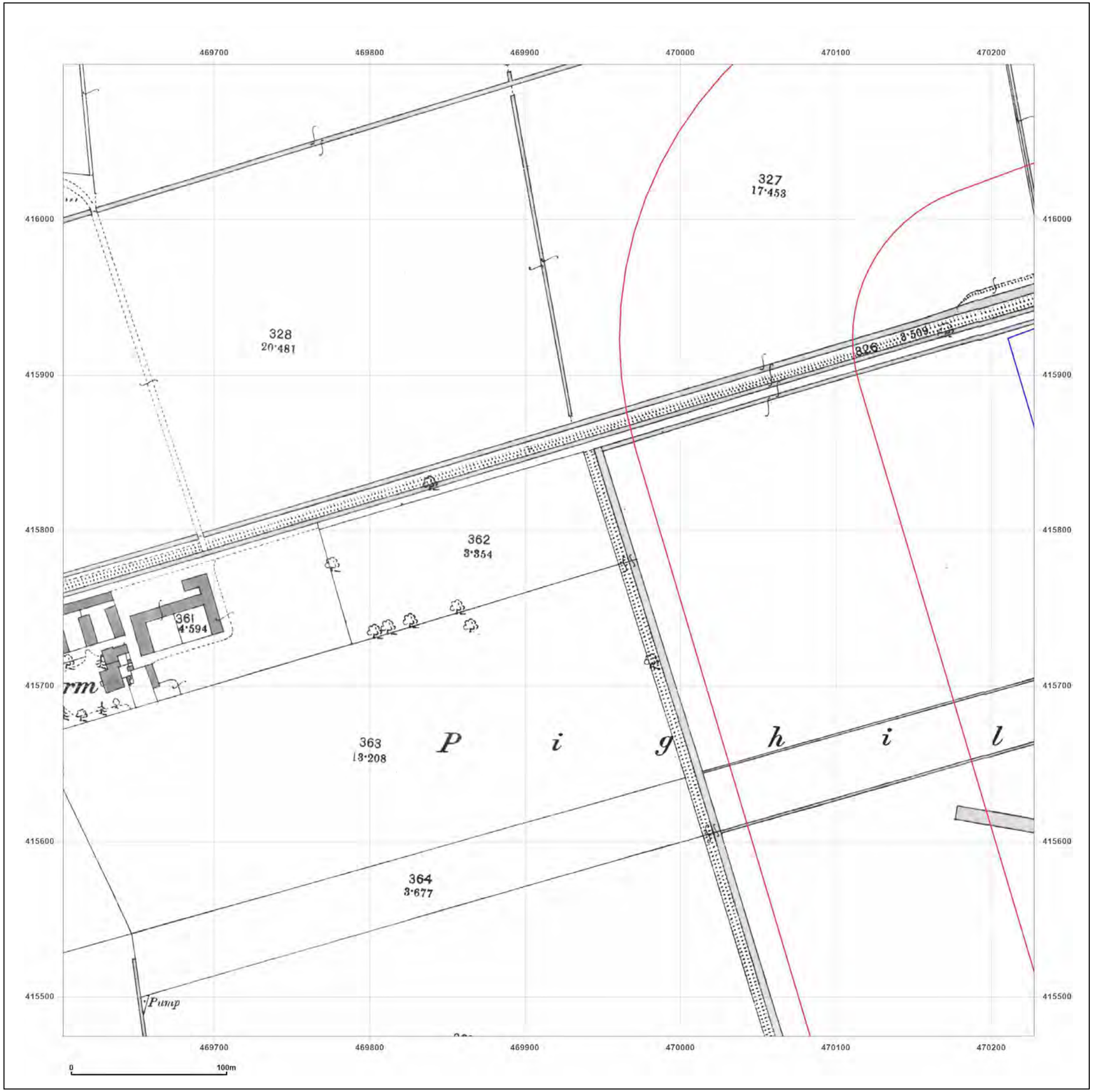
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

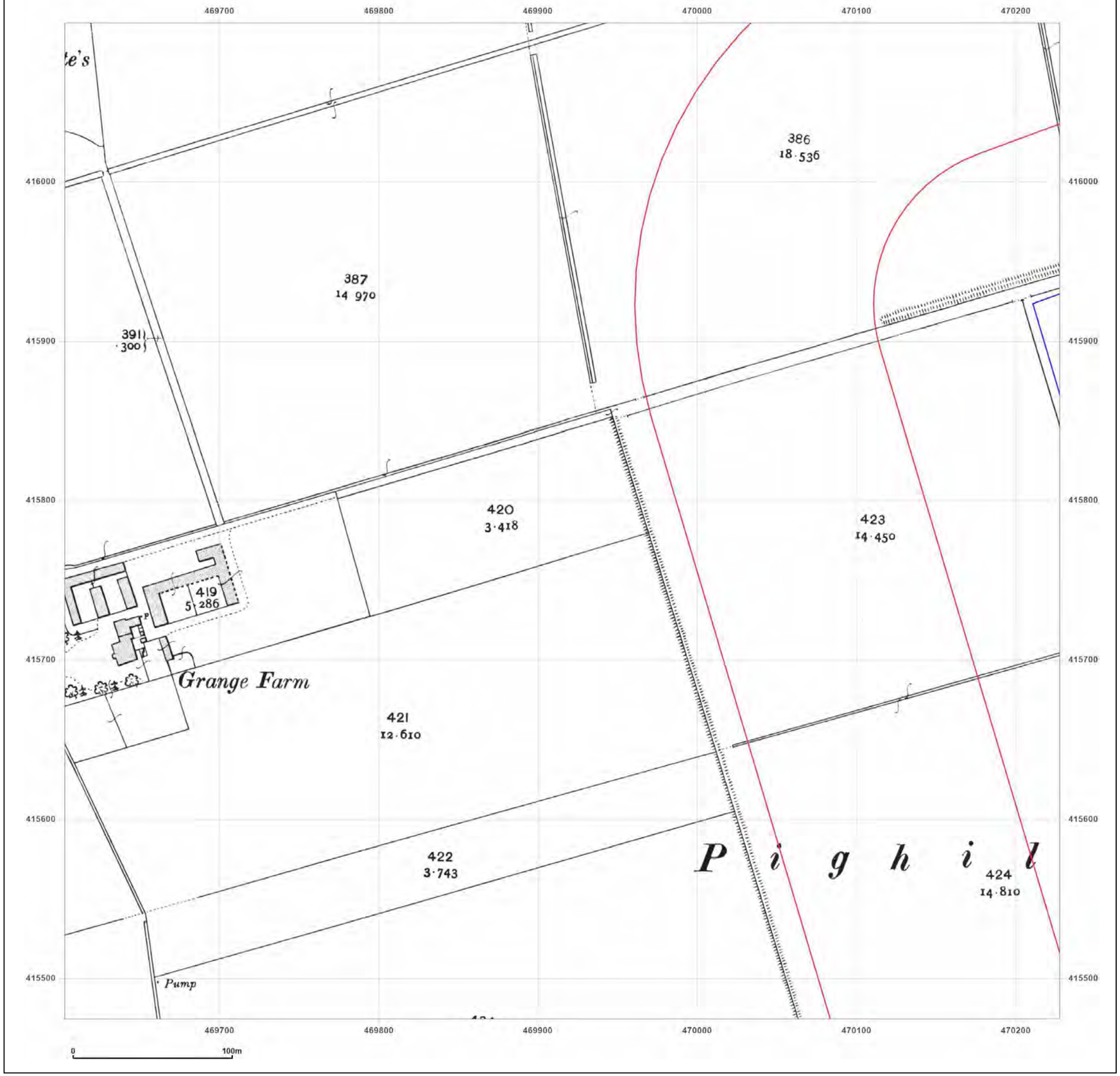
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

Map Name: National Grid

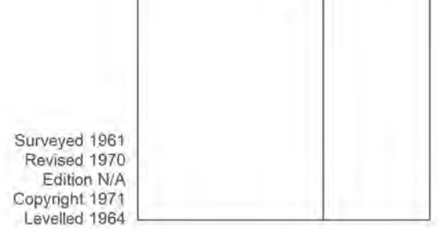
Map date: **1971-1975**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



Surveyed 1961
Revised 1970
Edition N/A
Copyright 1971
Levelled 1964

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Site Details:

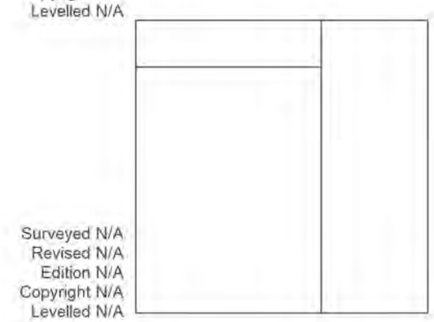
Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

Map Name: National Grid
Map date: **1971-1976**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

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



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

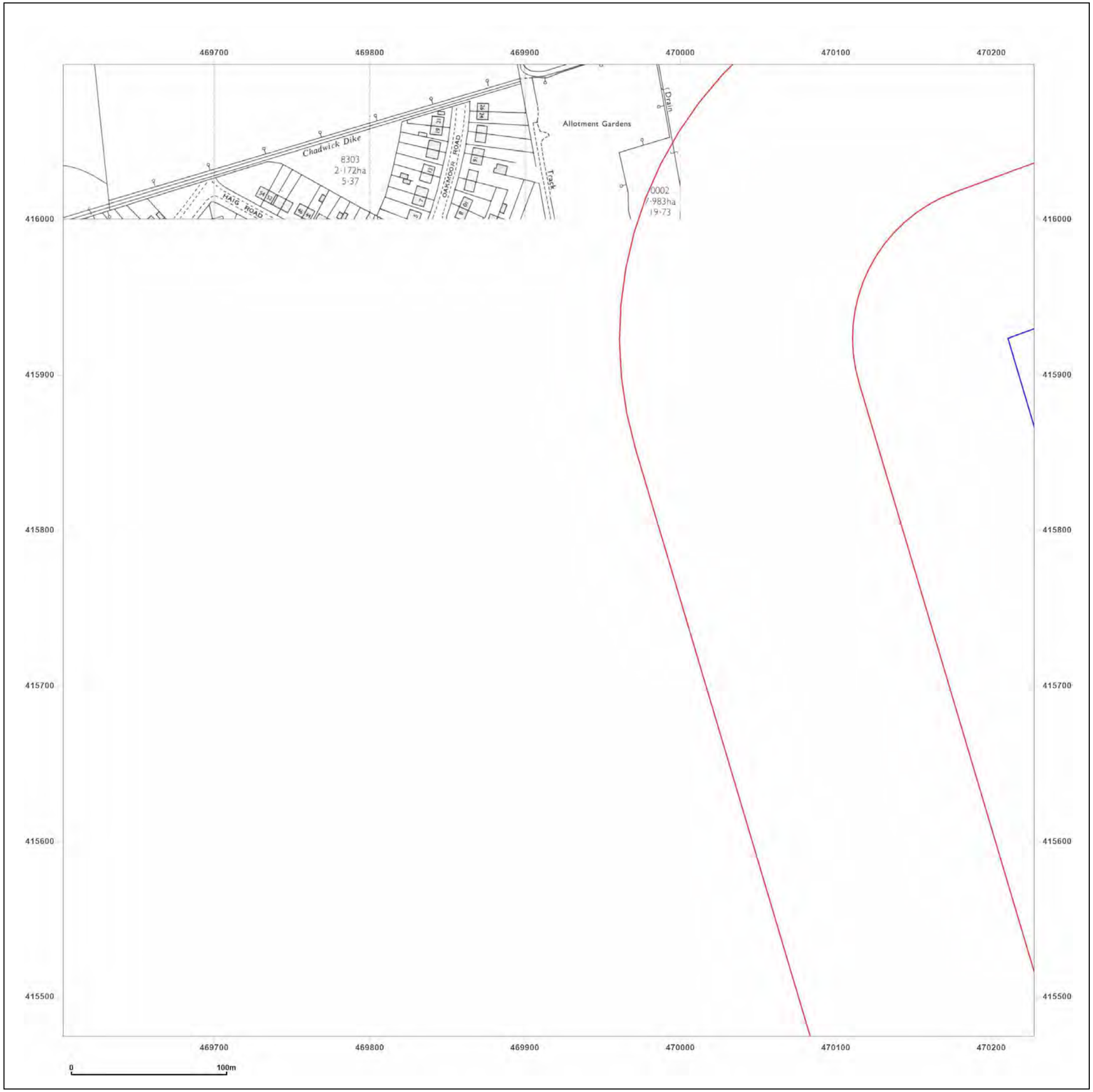
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

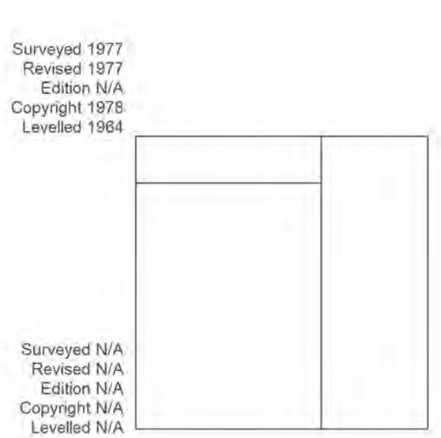
Map Name: National Grid

Map date: **1973-1978**

Scale: 1:2,500

Printed at: 1:2,500

N
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

Map Name: National Grid

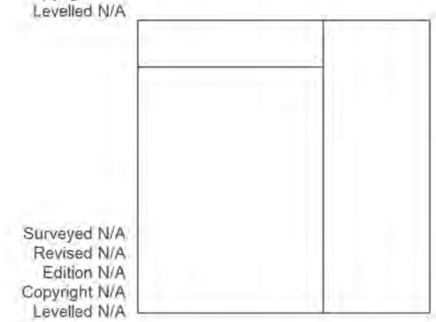
Map date: **1978**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

Map Name: National Grid

Map date: **1983-1985**

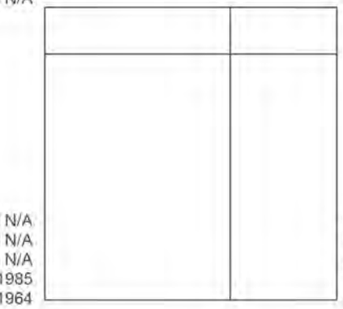
Scale: 1:2,500

Printed at: 1:2,500

N
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S

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

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1985
Levelled 1964

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

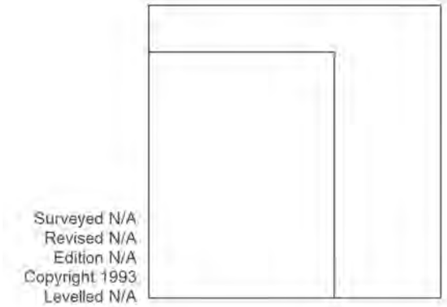
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

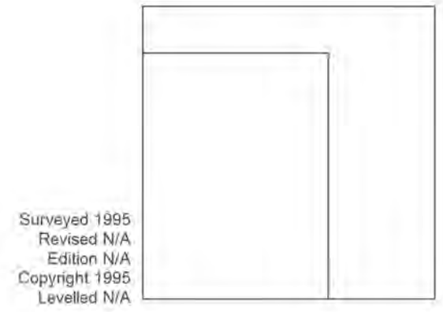
Map Name: National Grid

Map date: **1995**

Scale: 1:2,500

Printed at: 1:2,500

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_3_12
Grid Ref: 469915, 415787

Map Name: National Grid

Map date: **1993-1995**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1995
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

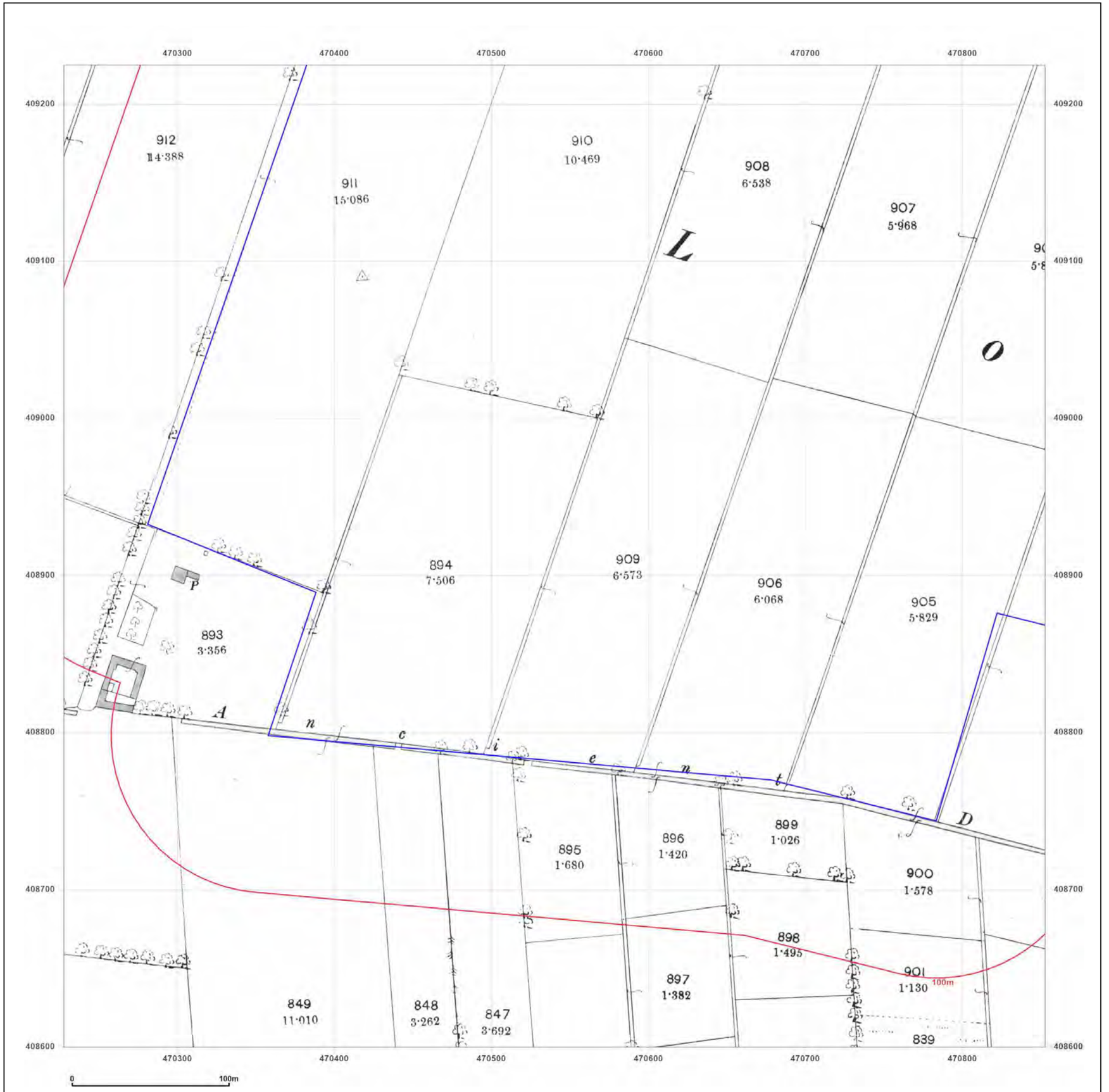
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_1
Grid Ref: 470540, 408912

Map Name: County Series
Map date: **1892**
Scale: 1:2,500
Printed at: 1:2,500

N
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S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

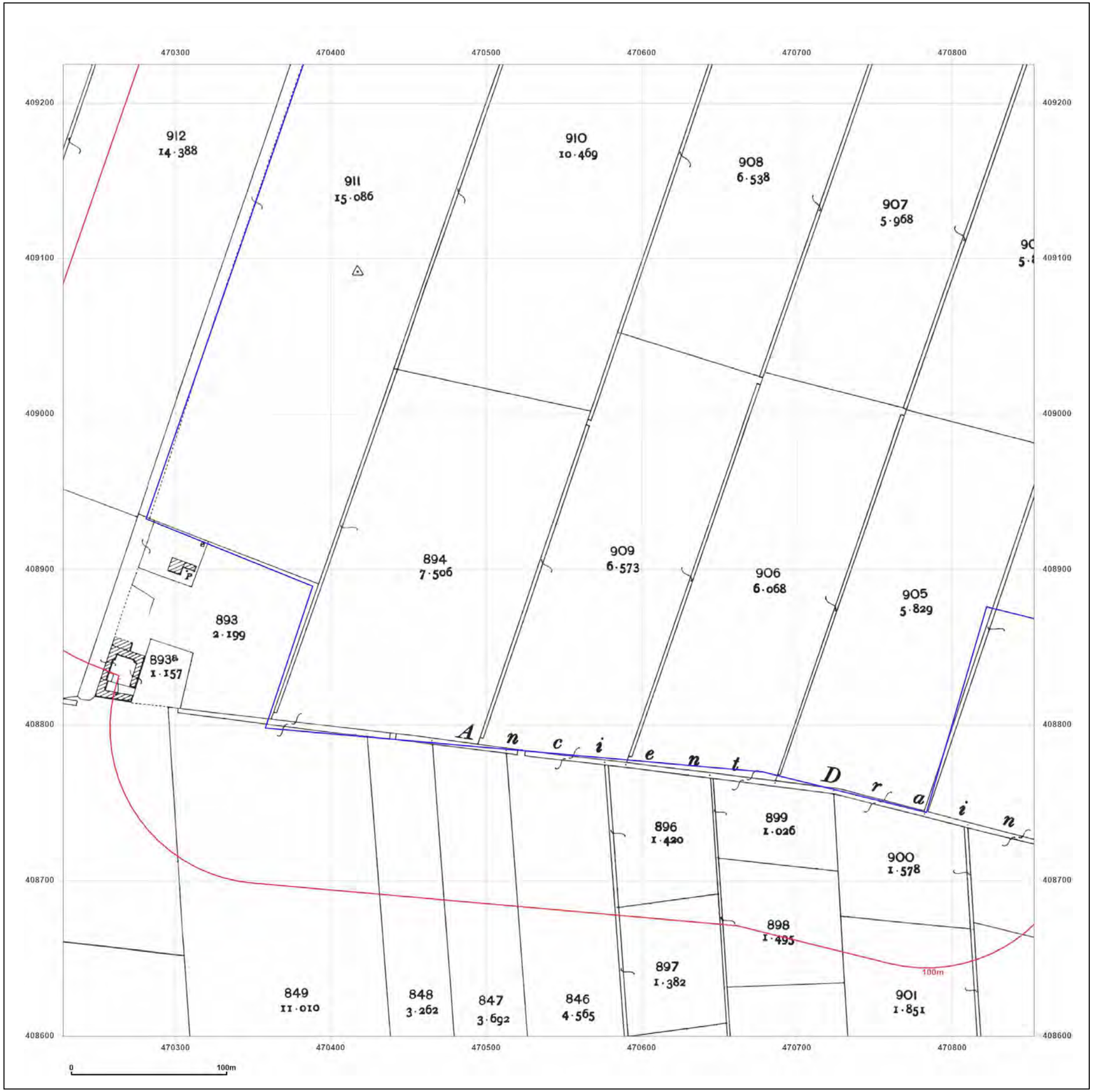
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_1
Grid Ref: 470540, 408912

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

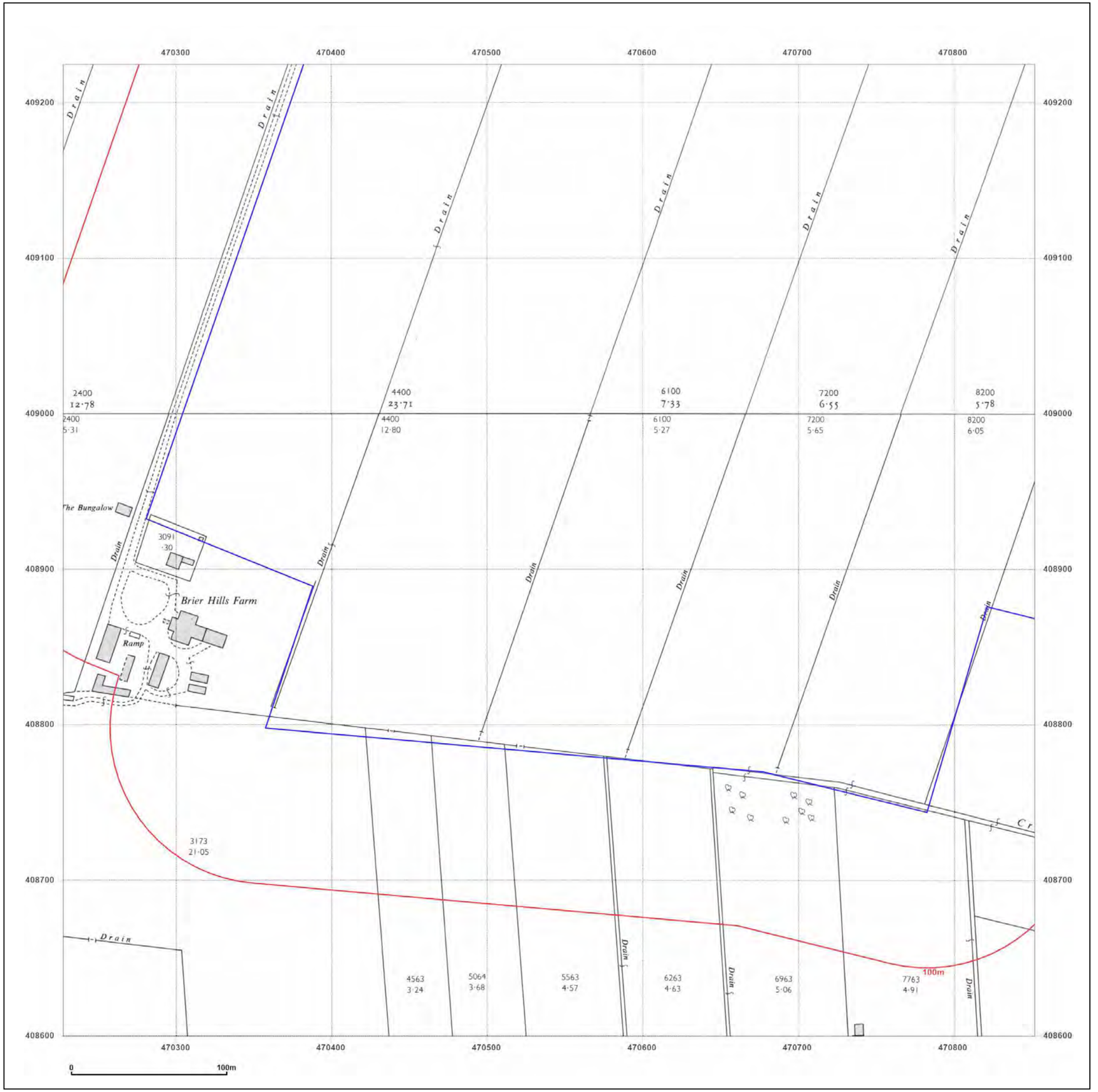
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_1
Grid Ref: 470540, 408912

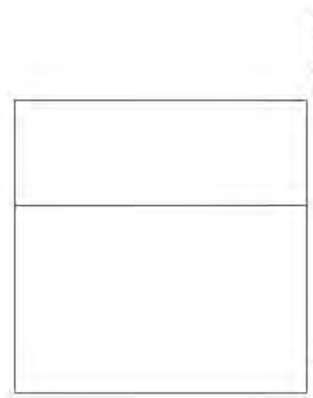
Map Name: National Grid

Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
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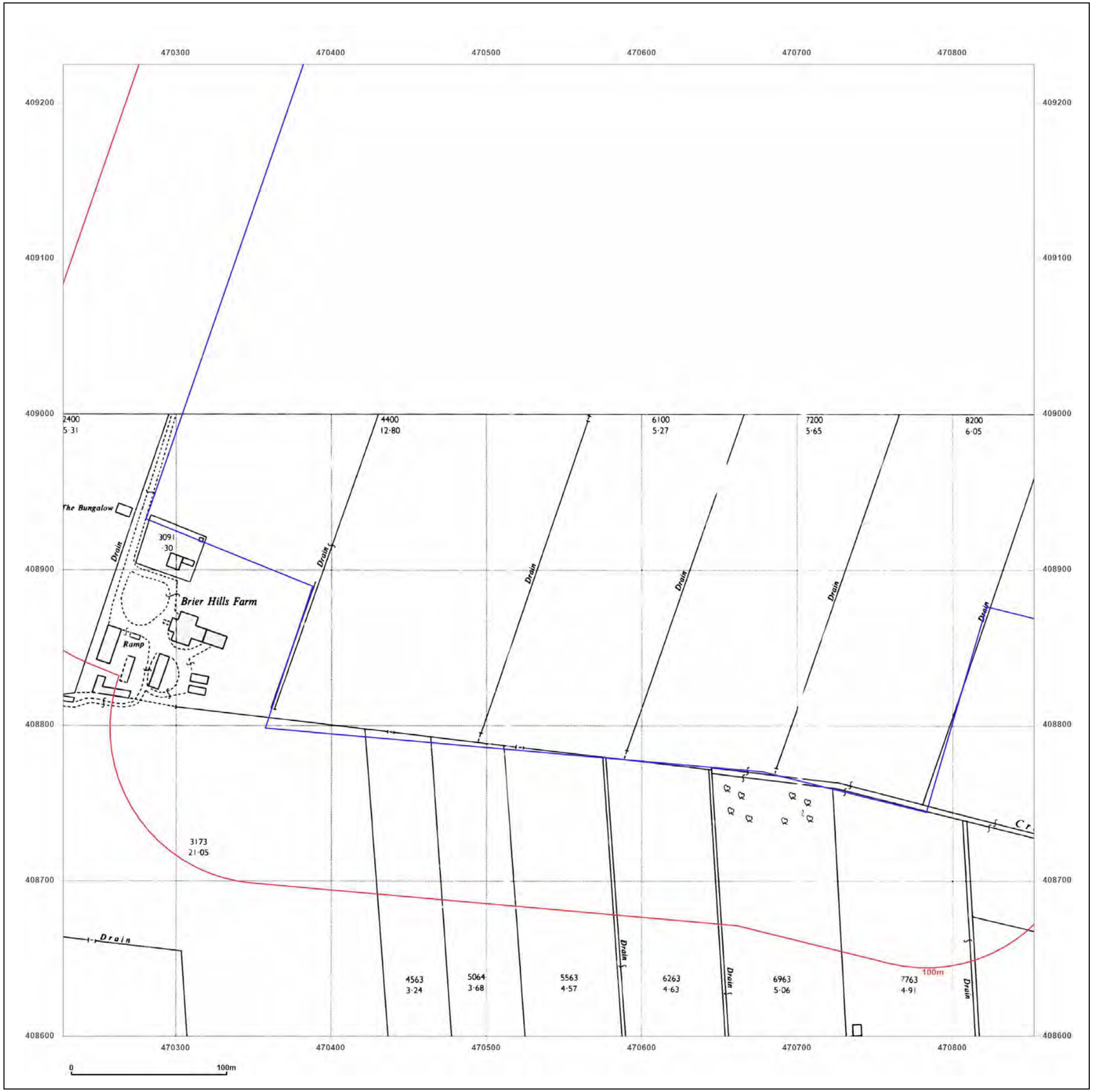
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_1
Grid Ref: 470540, 408912

Map Name: National Grid

Map date: **1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

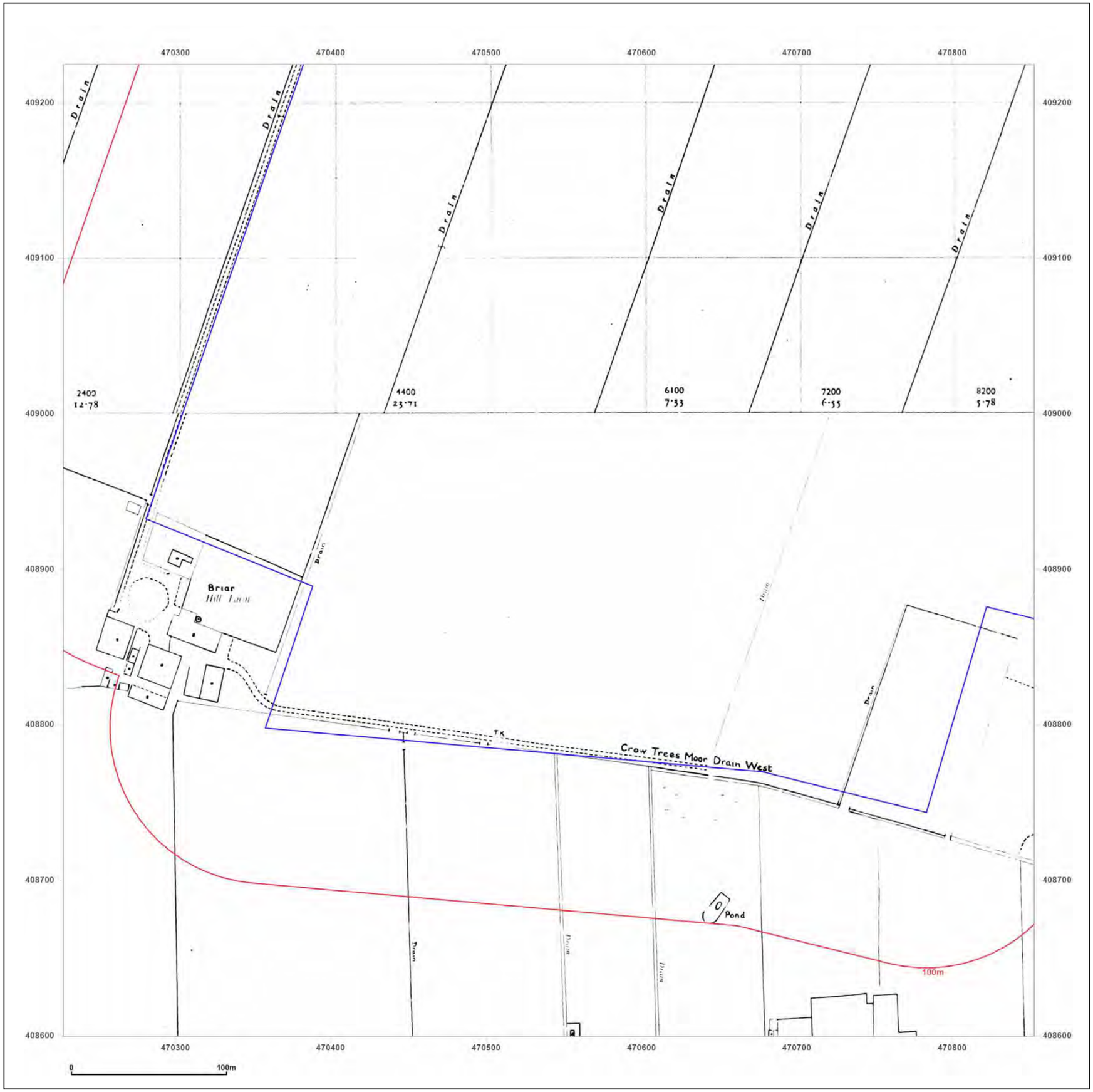
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_1
Grid Ref: 470540, 408912

Map Name: National Grid

Map date: **1978-1981**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled N/A

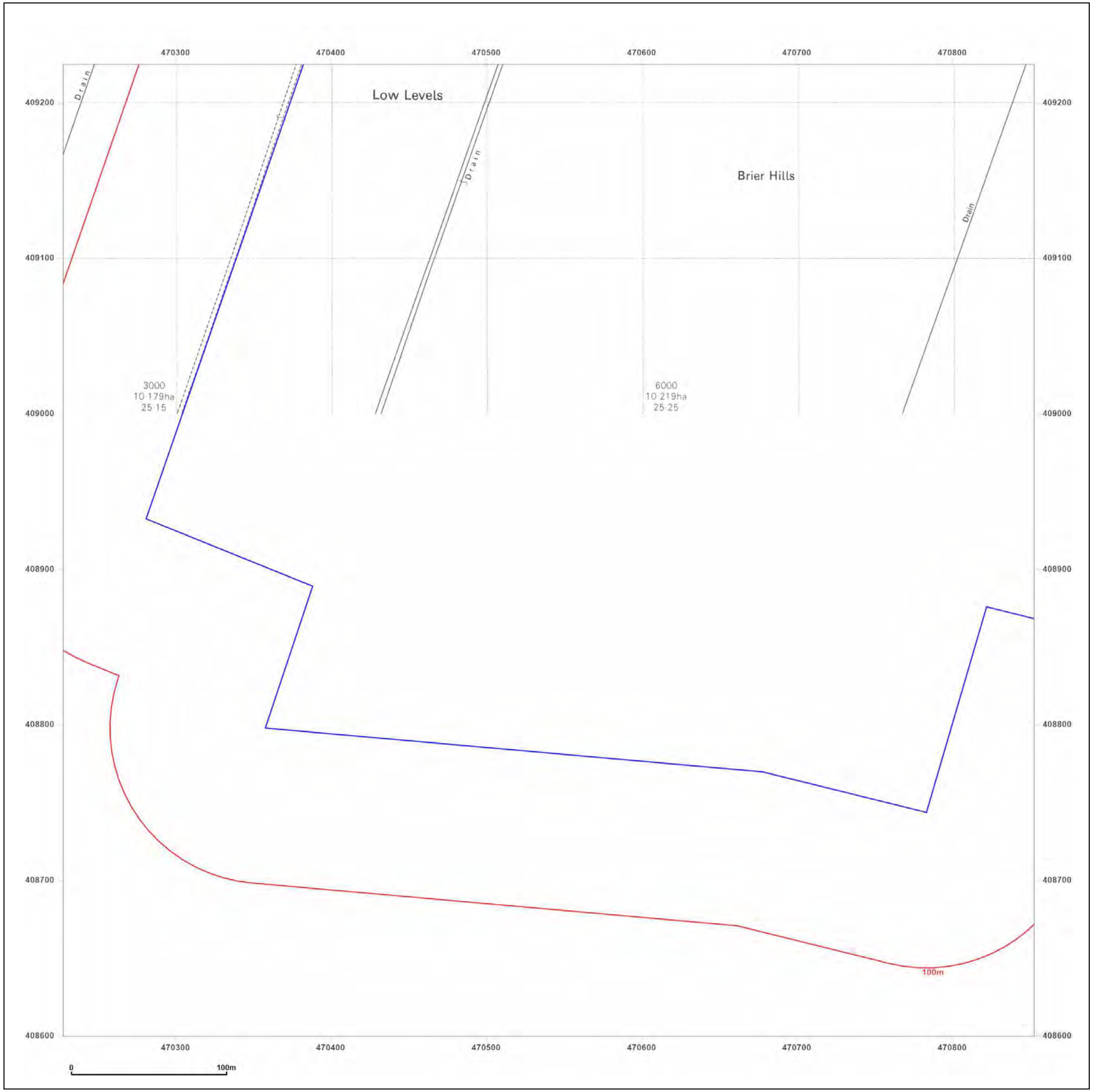
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_1
Grid Ref: 470540, 408912

Map Name: National Grid

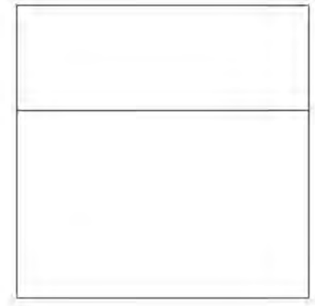
Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1984
Revised 1984
Edition N/A
Copyright 1985
Levelled 1964



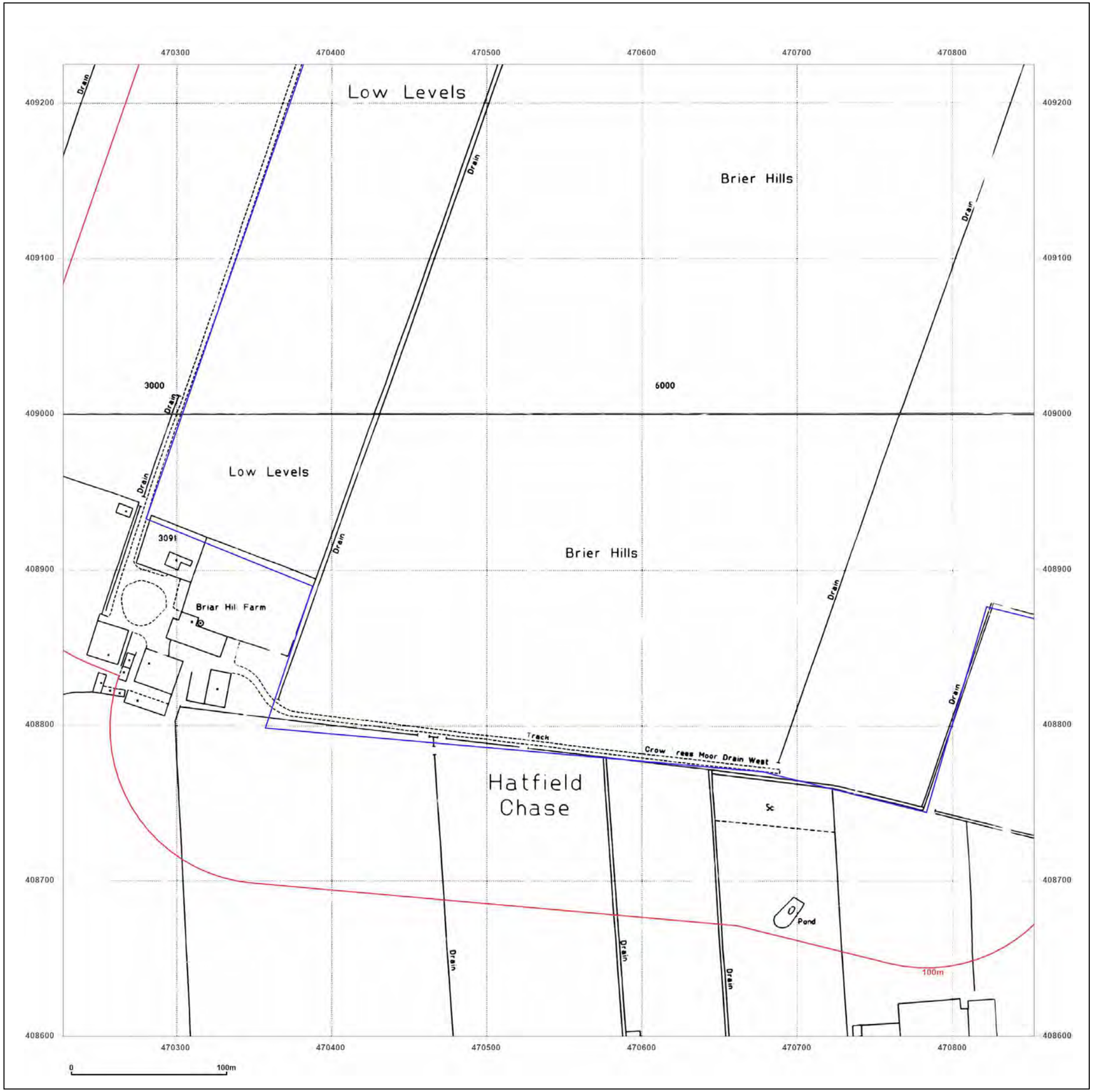
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Production date: 03 March 2023

Map legend available at:
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_1
Grid Ref: 470540, 408912

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

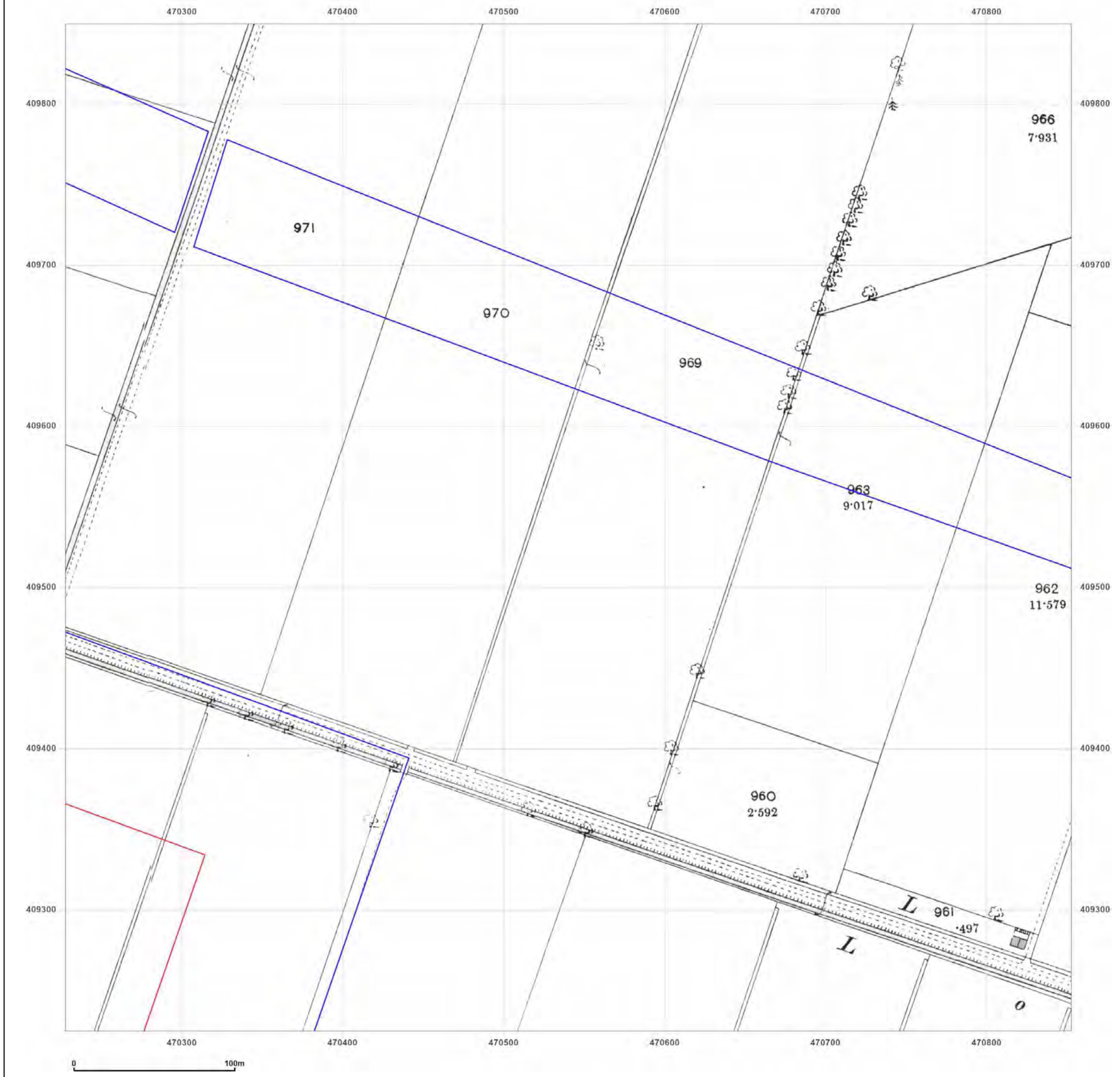
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_2
Grid Ref: 470540, 409537

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

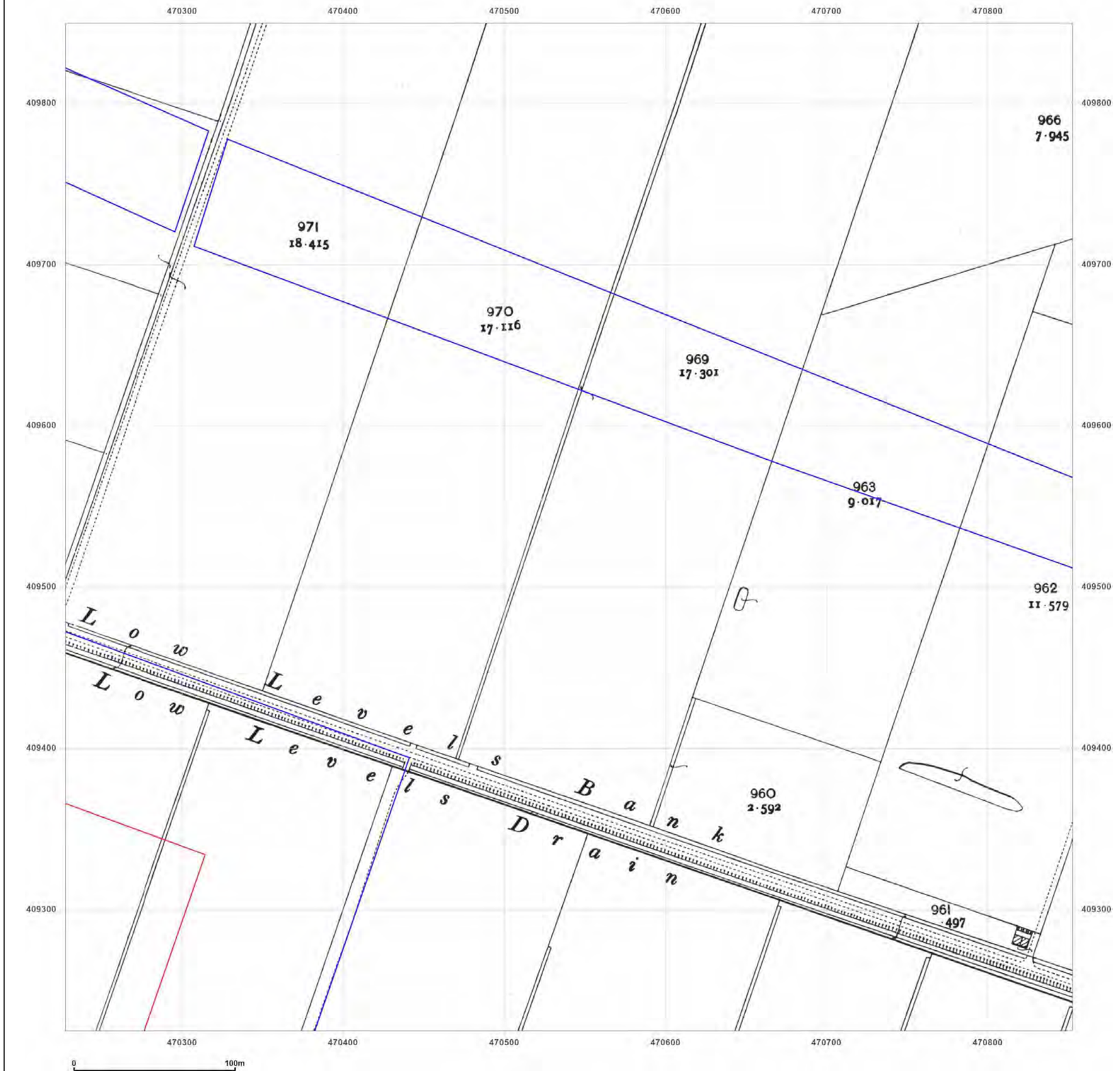
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_2
Grid Ref: 470540, 409537

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

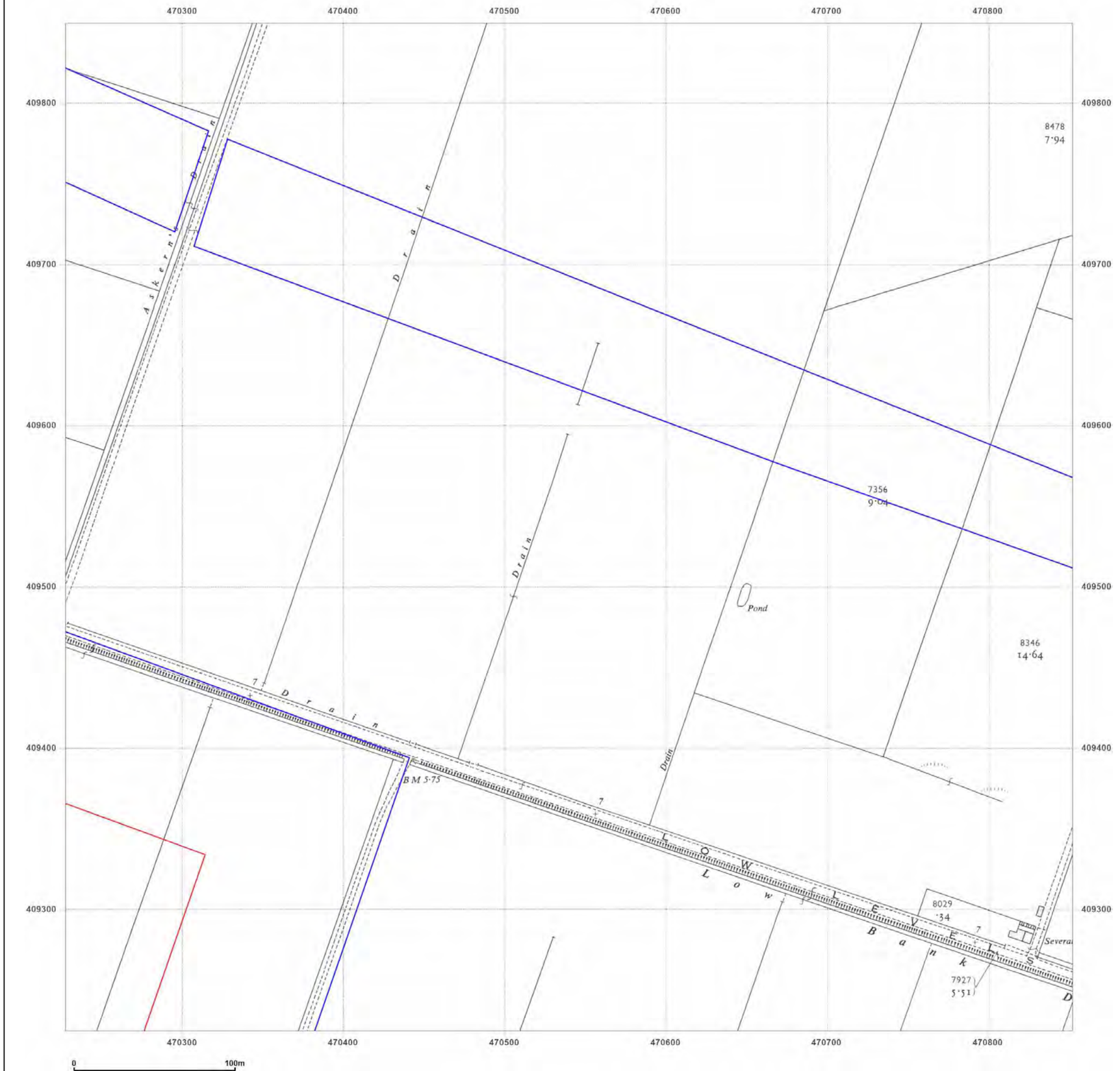
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_2
Grid Ref: 470540, 409537

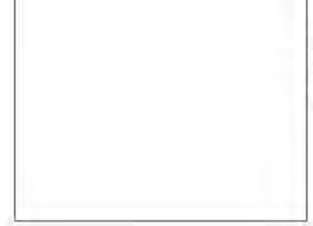
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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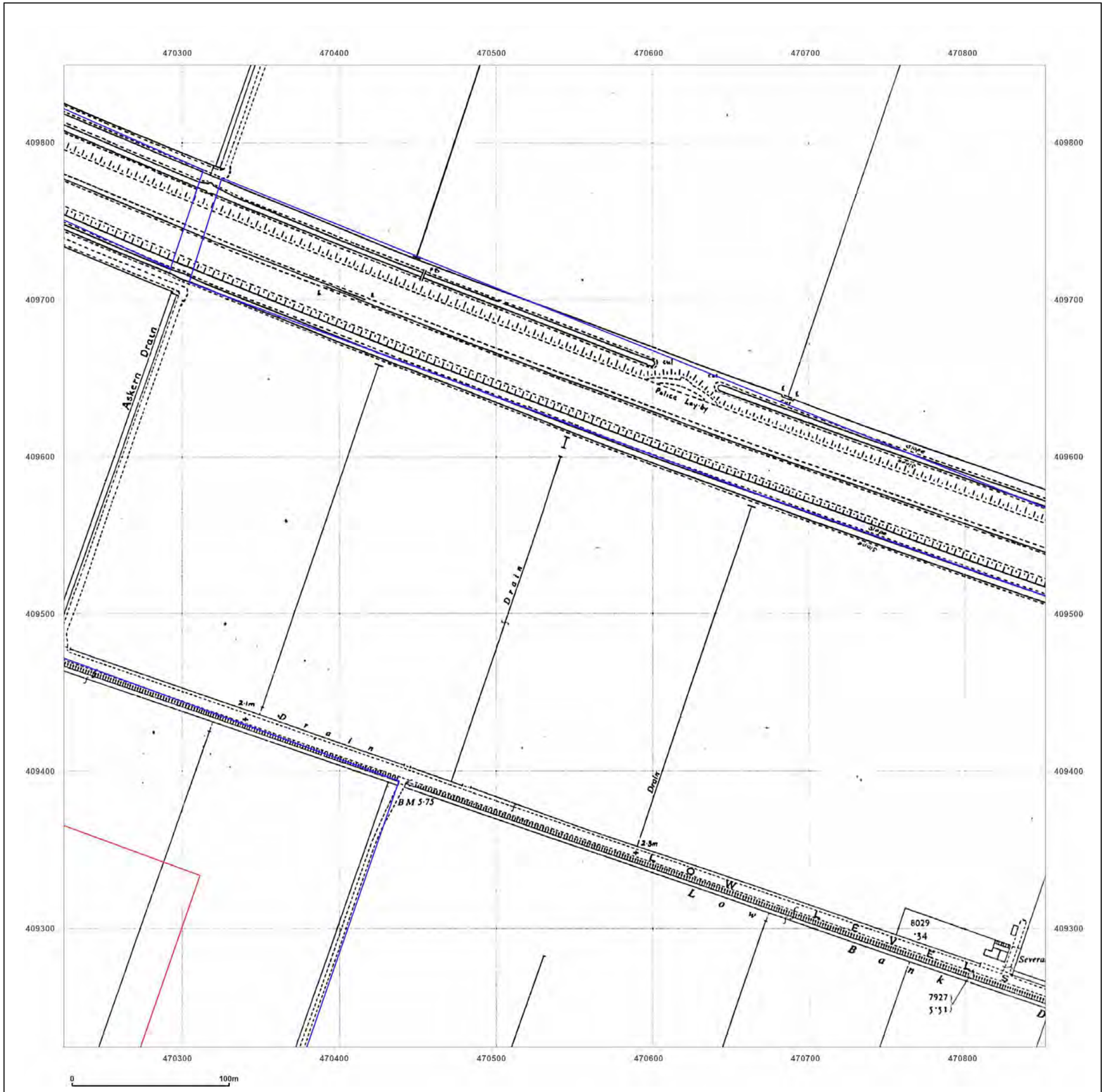
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_2
Grid Ref: 470540, 409537

Map Name: National Grid

Map date: **1978**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

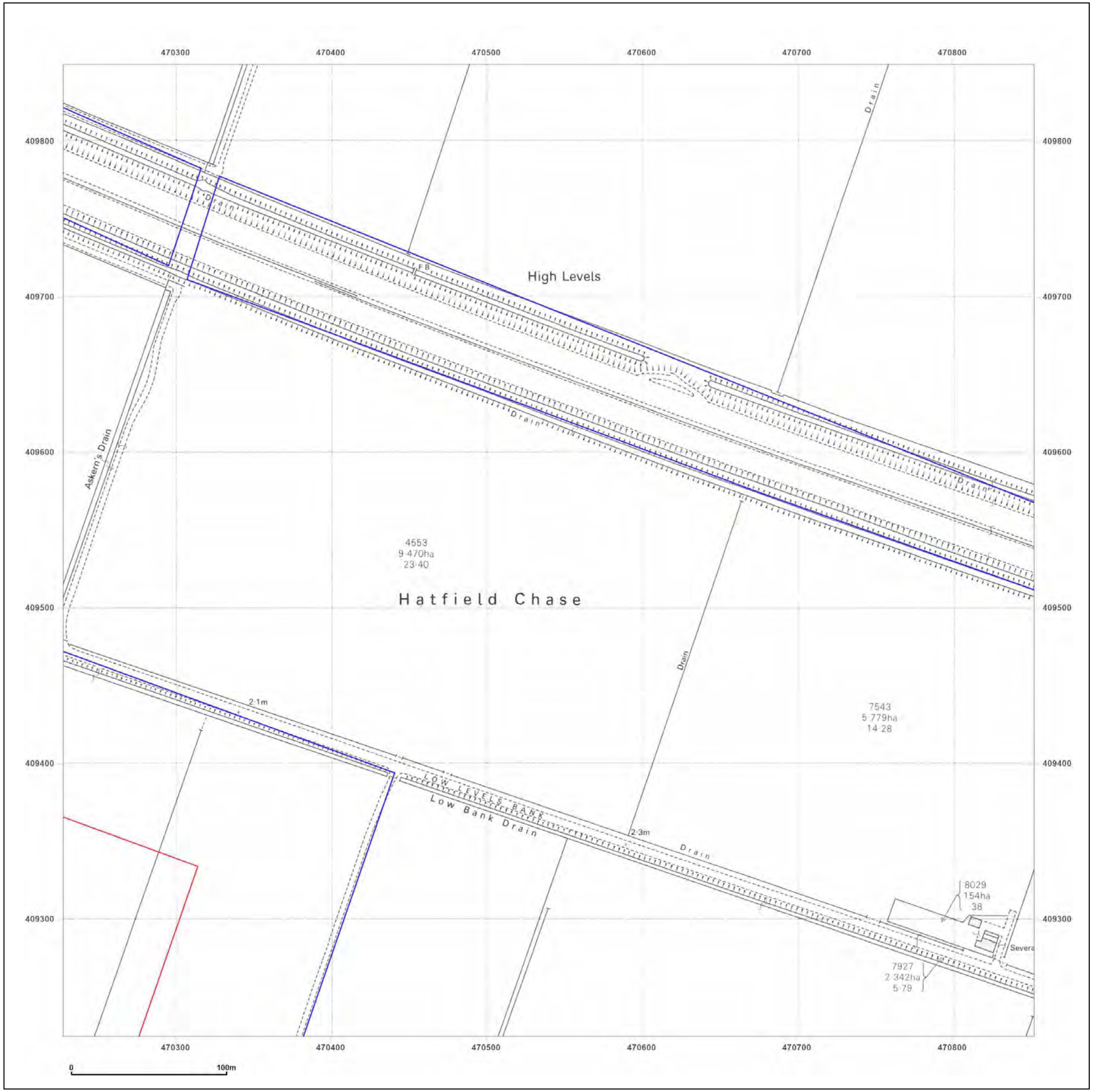
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_2
Grid Ref: 470540, 409537

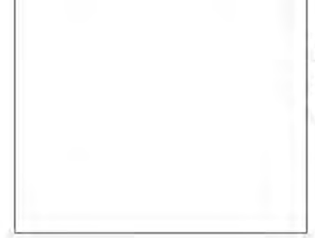
Map Name: National Grid

Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



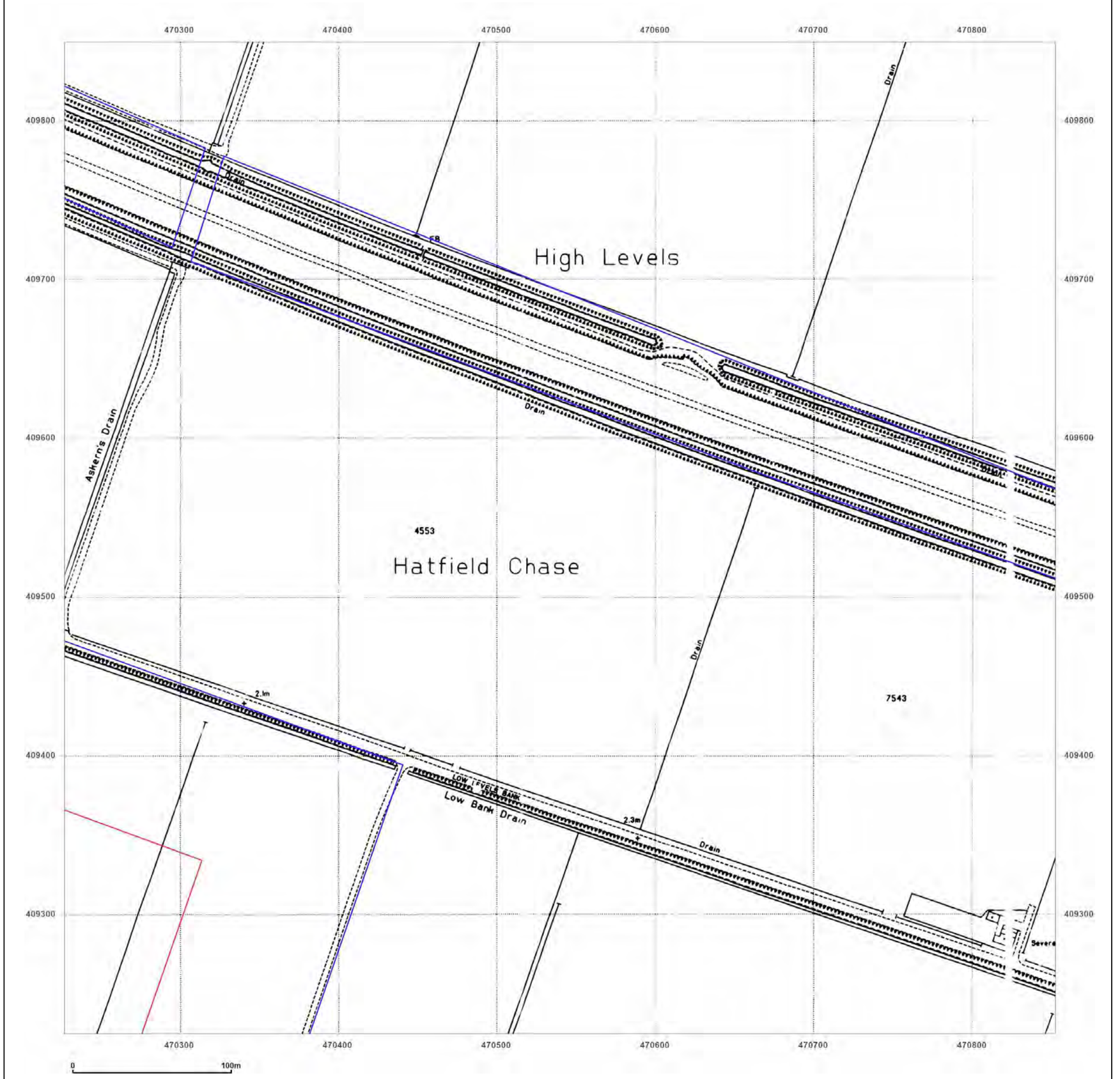
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_2
Grid Ref: 470540, 409537

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

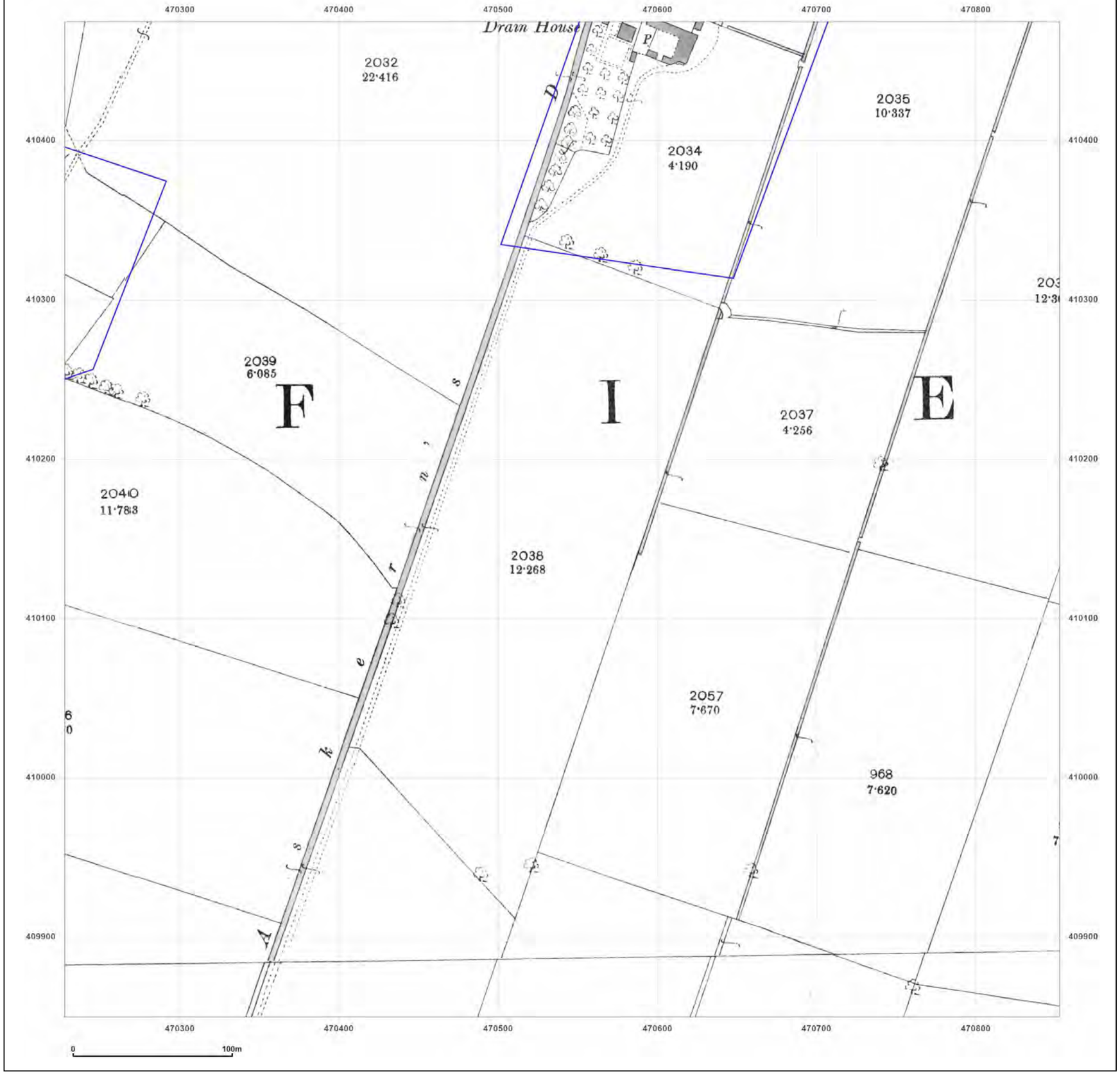
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_3
Grid Ref: 470540, 410162

Map Name: County Series

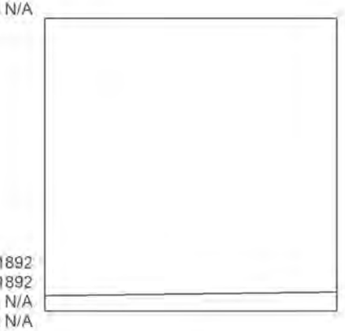
Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

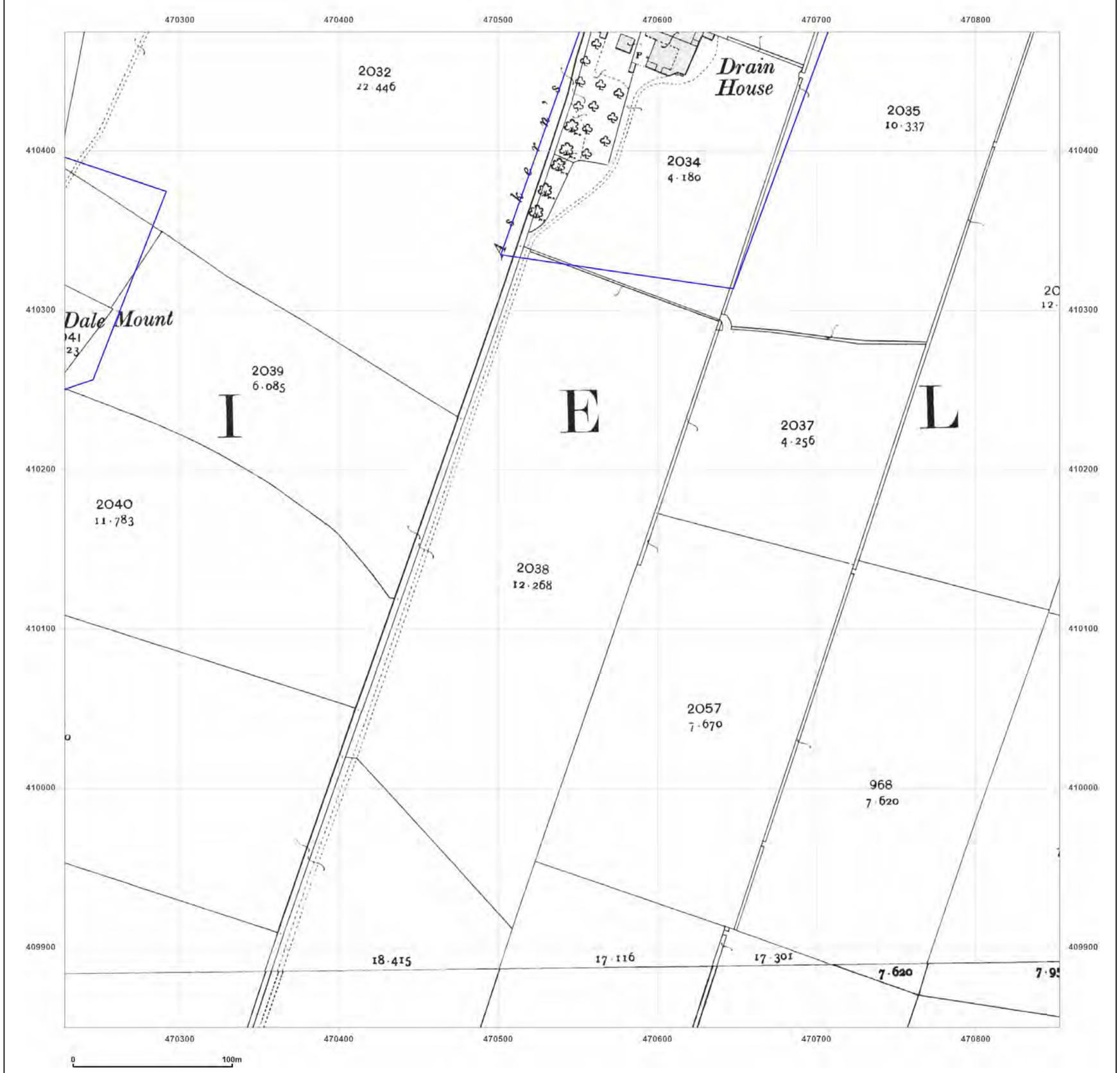
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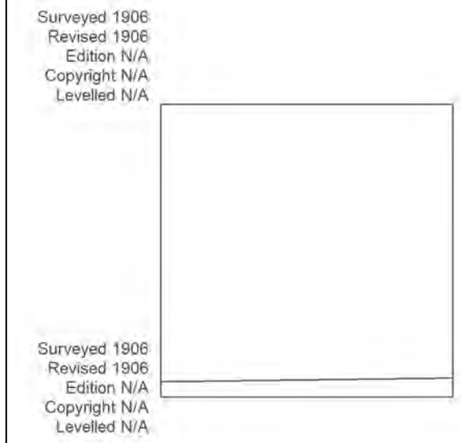
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_3
Grid Ref: 470540, 410162

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

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S



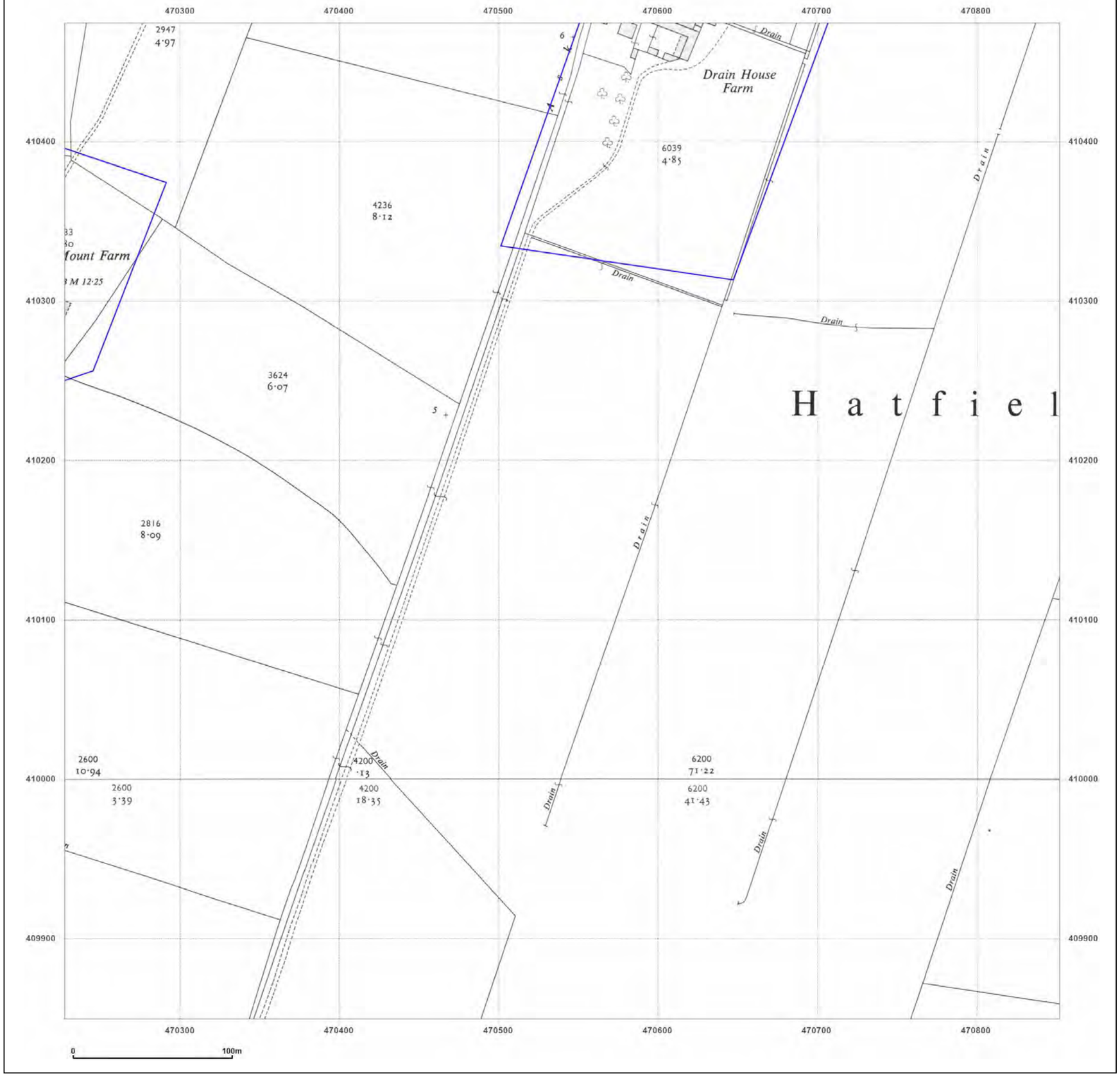
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_3
Grid Ref: 470540, 410162

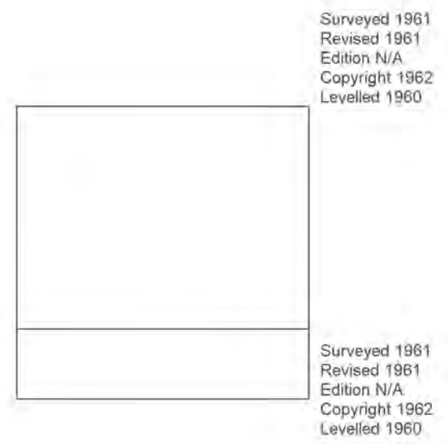
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



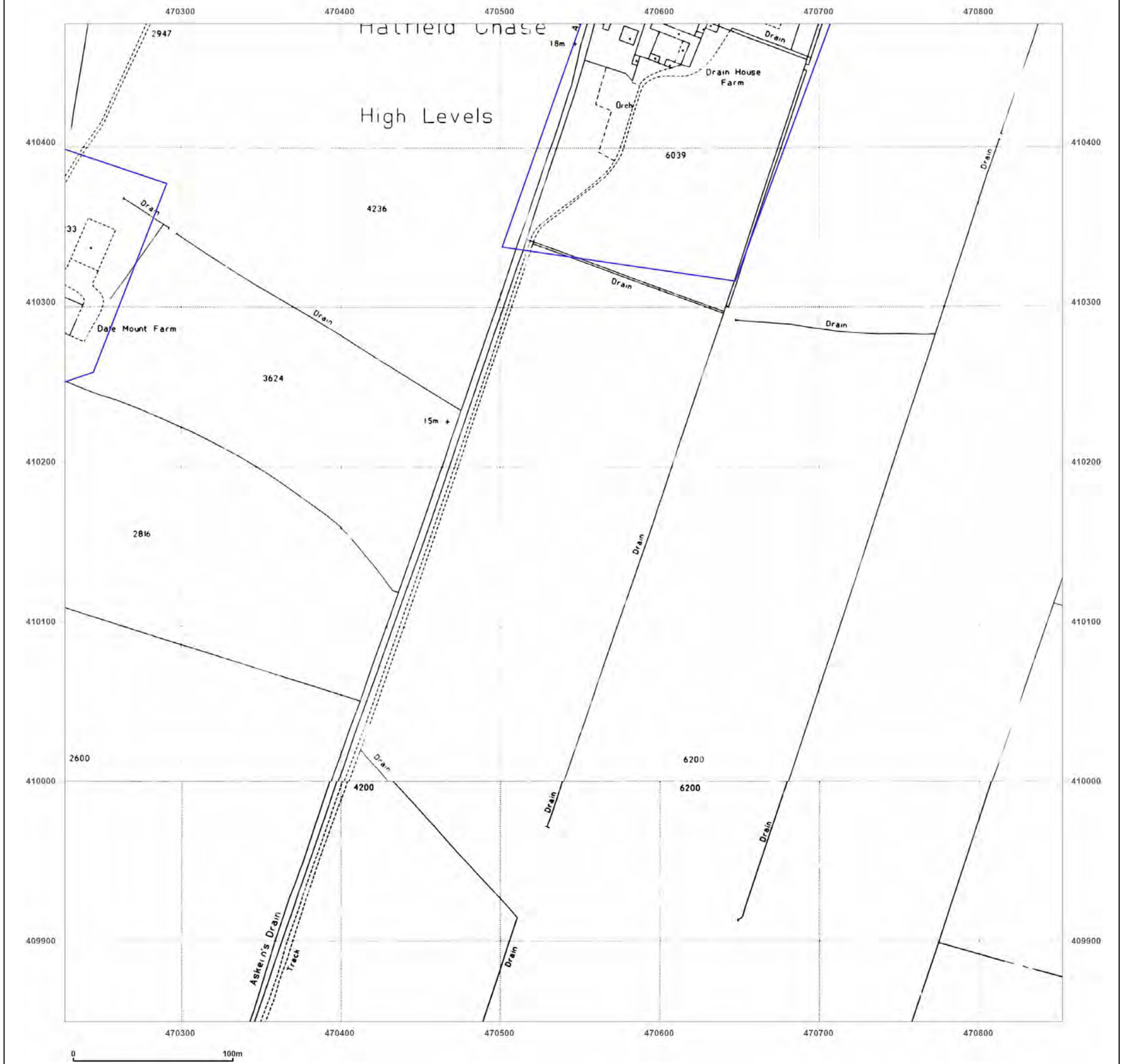
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_3
Grid Ref: 470540, 410162

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

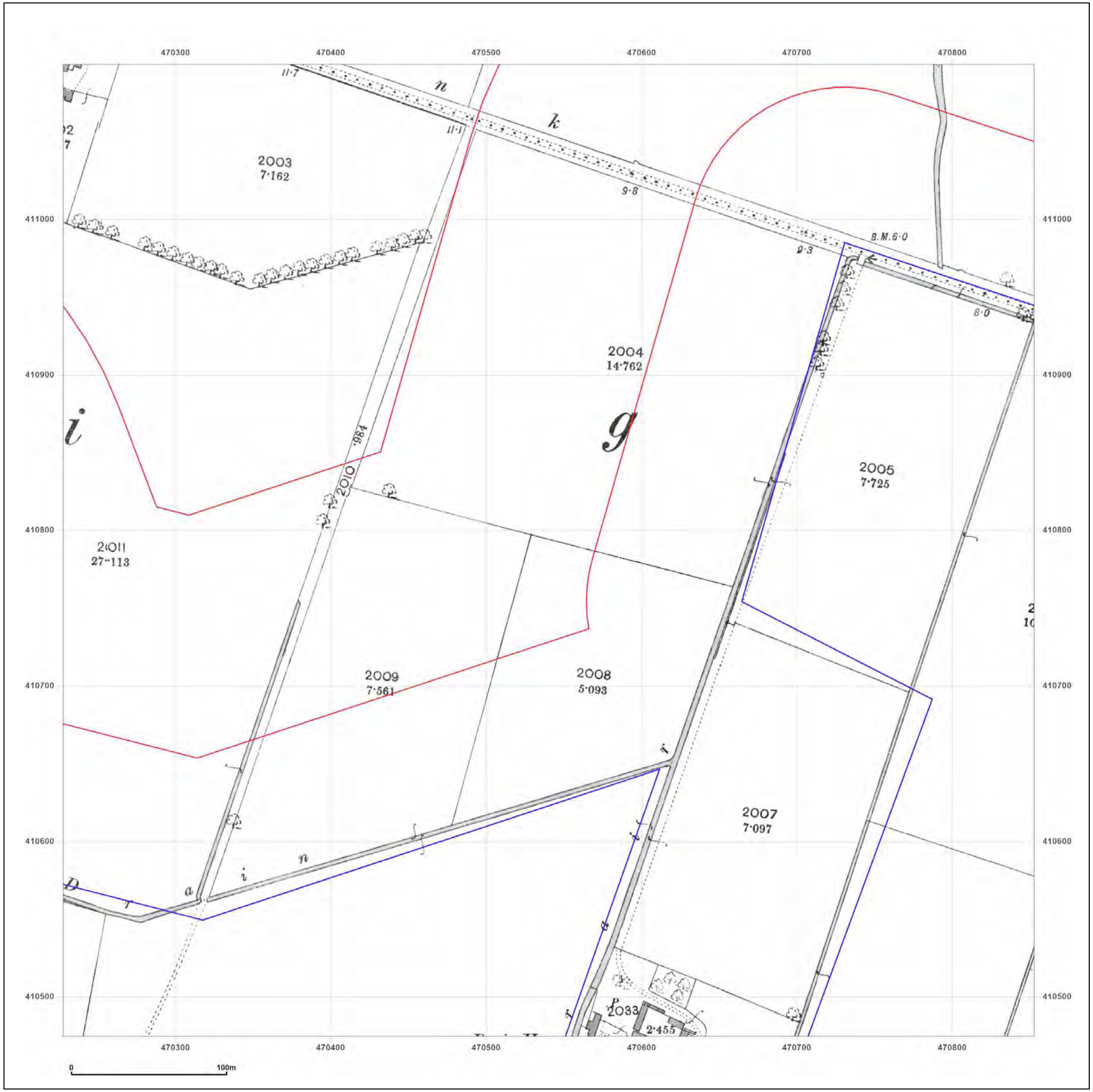
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_4
Grid Ref: 470540, 410787

Map Name: County Series
Map date: **1892**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

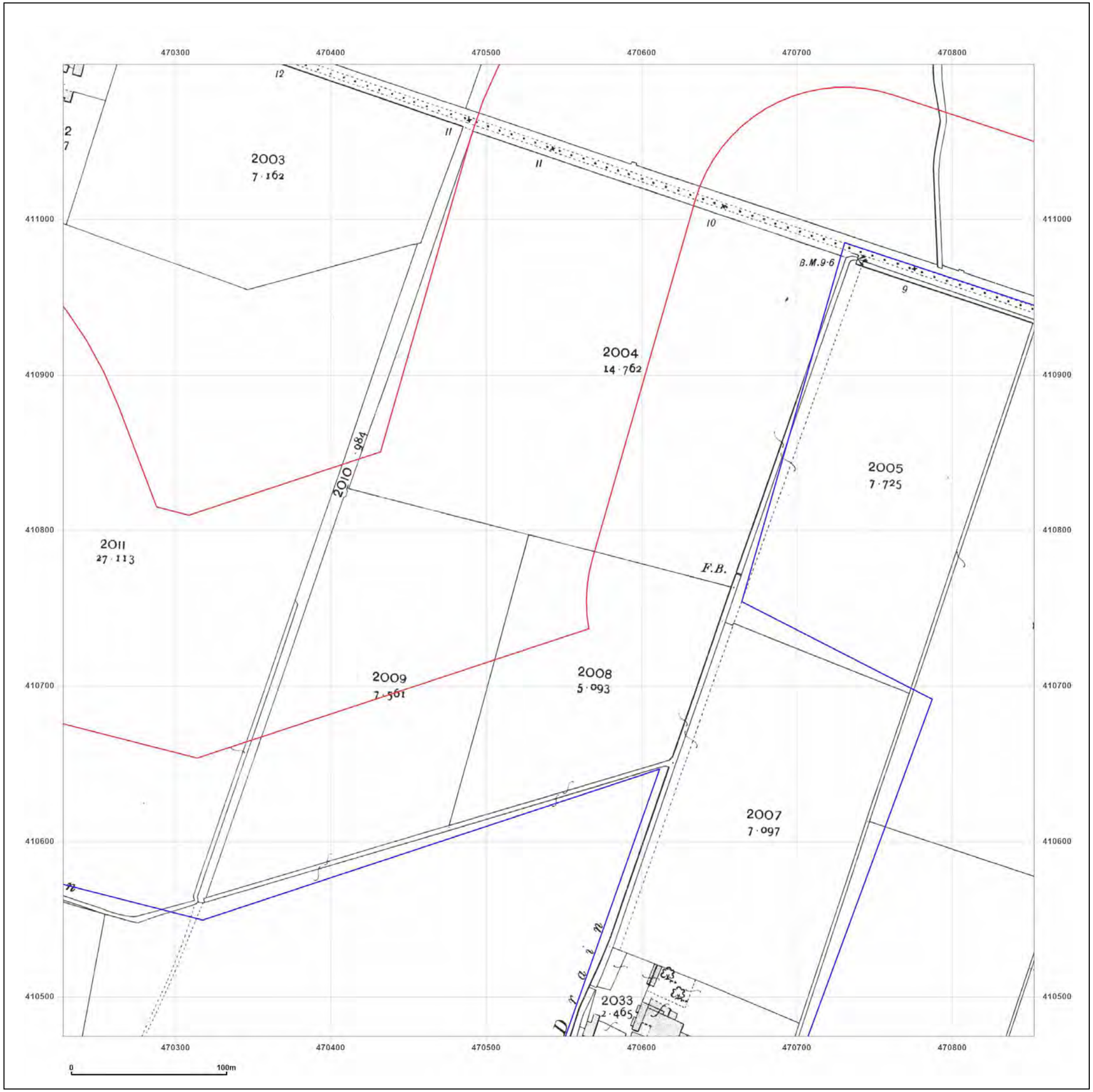
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_4
Grid Ref: 470540, 410787

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

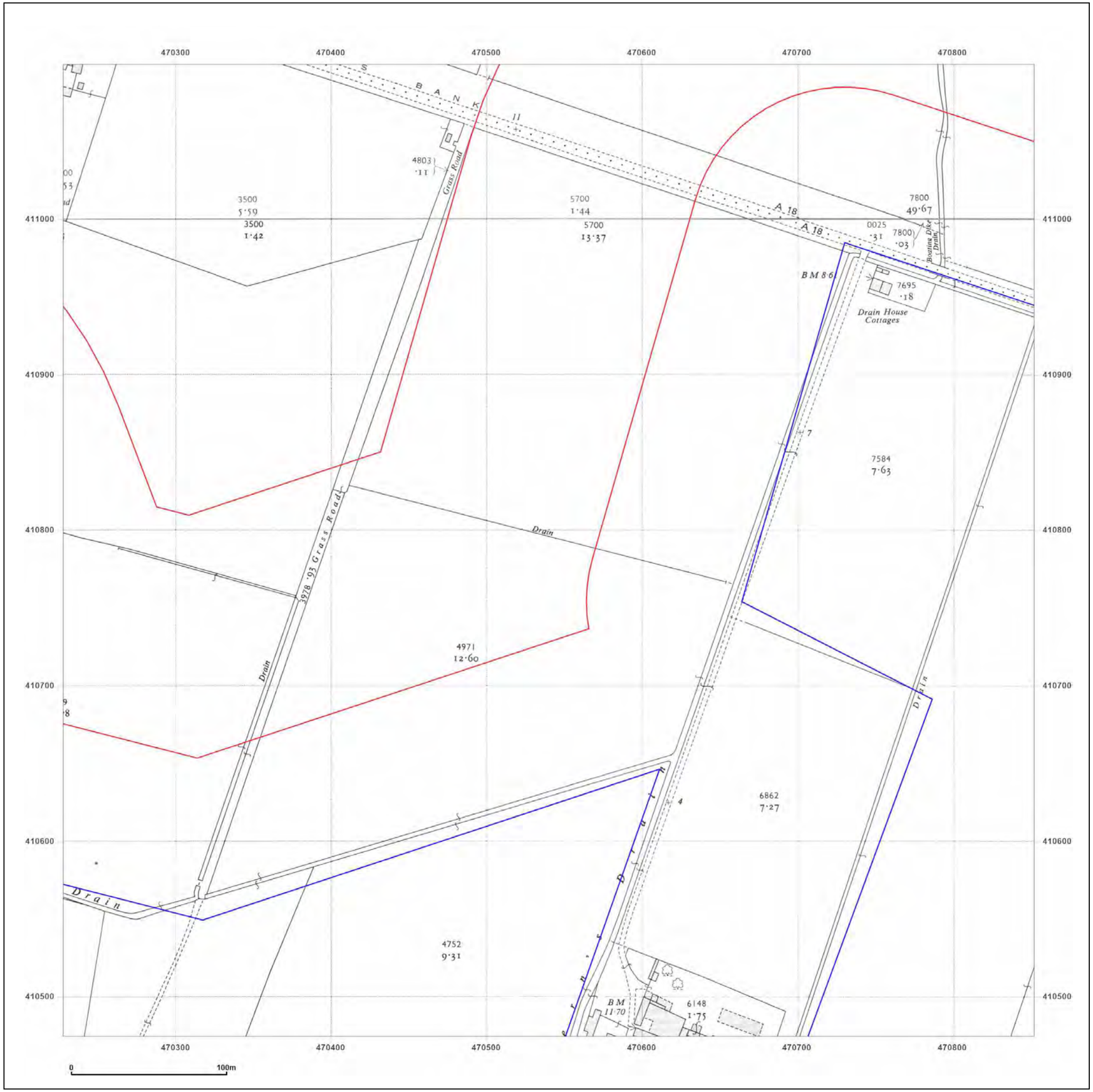
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_4
Grid Ref: 470540, 410787

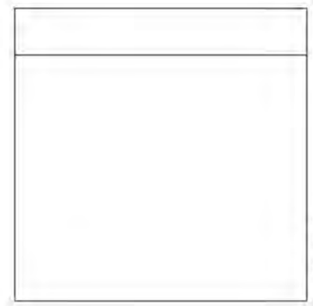
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



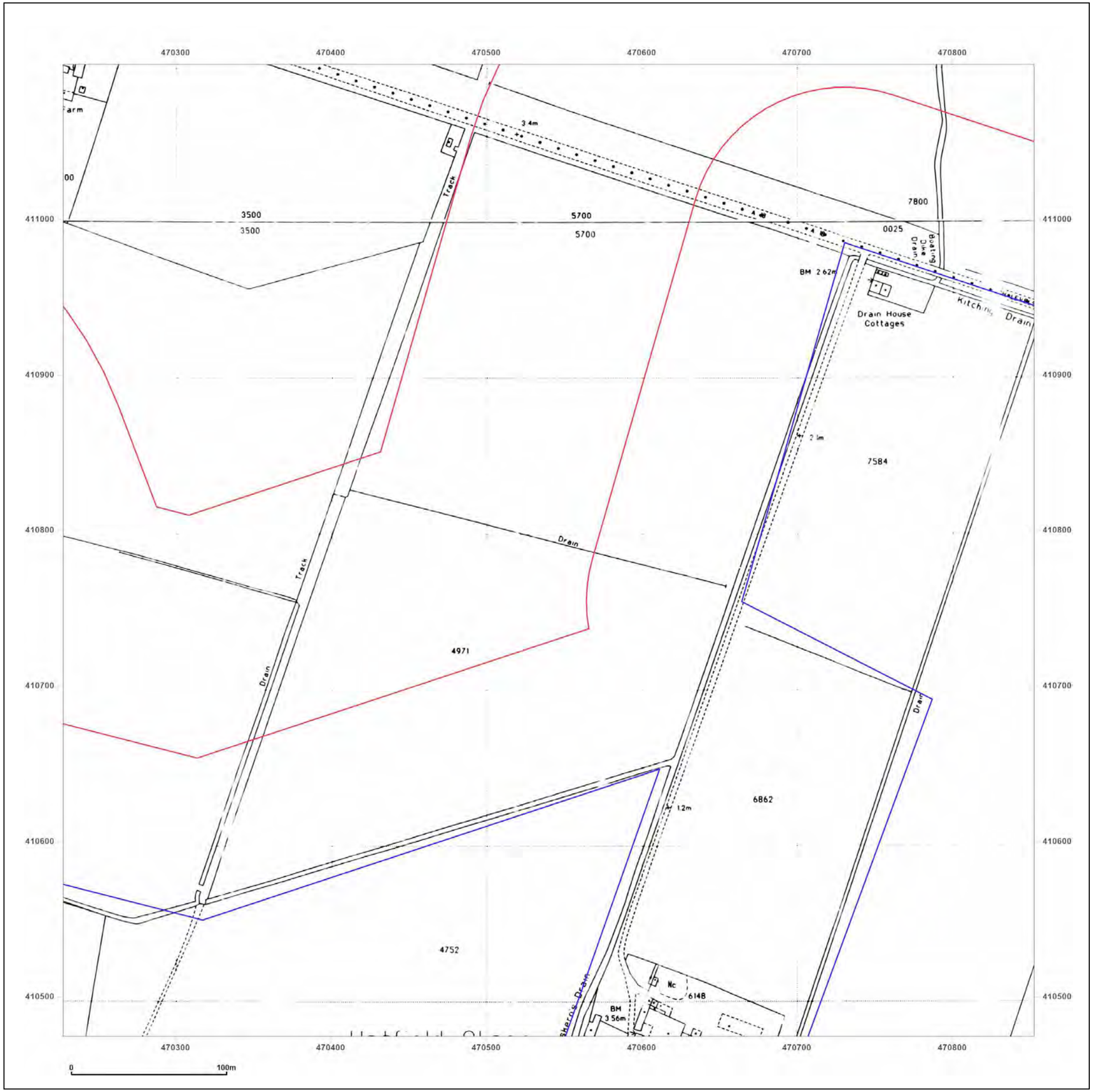
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_4
Grid Ref: 470540, 410787

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



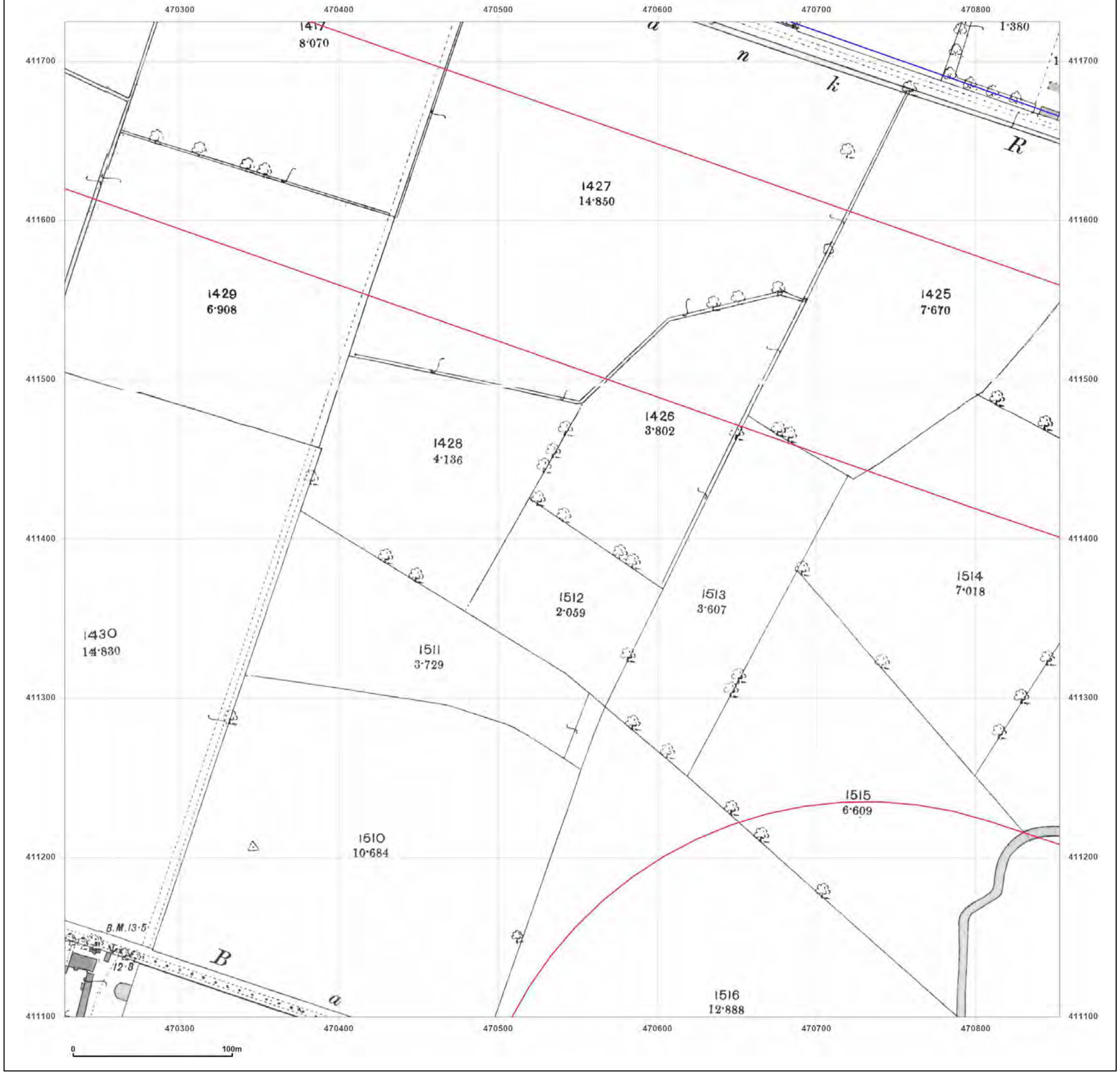
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_5
Grid Ref: 470540, 411412

Map Name: County Series

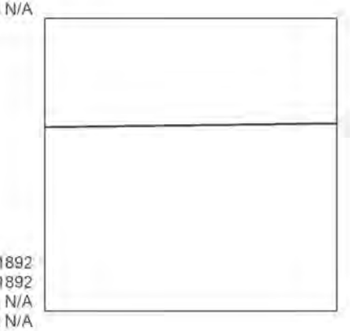
Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

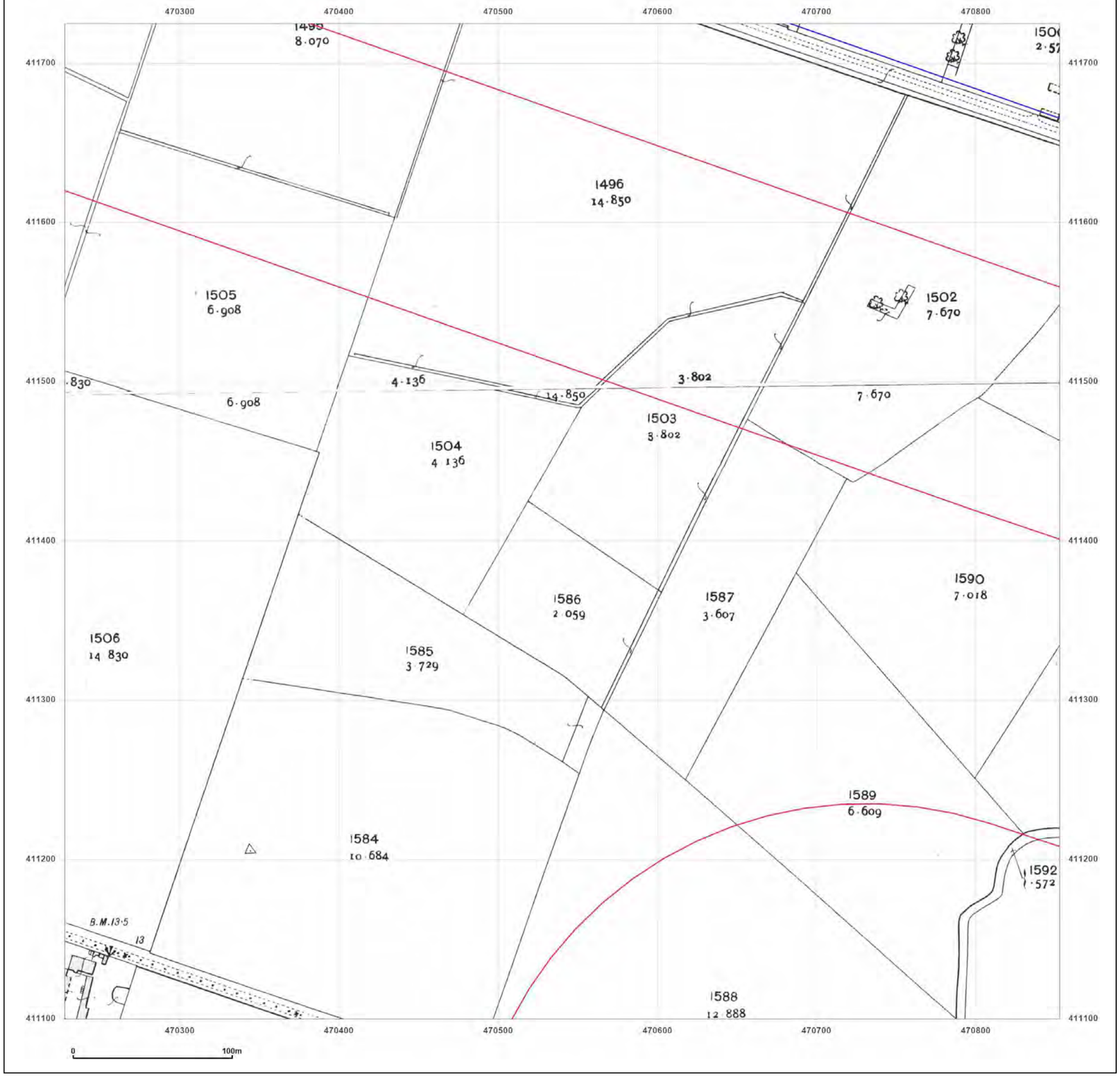
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_5
Grid Ref: 470540, 411412

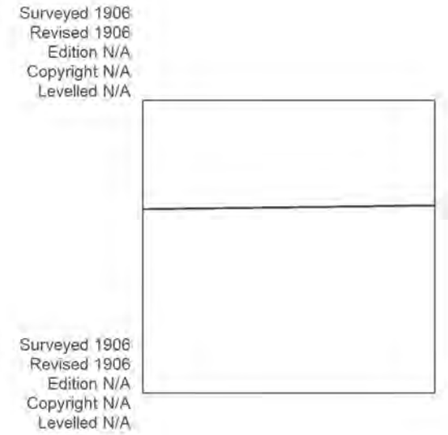
Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



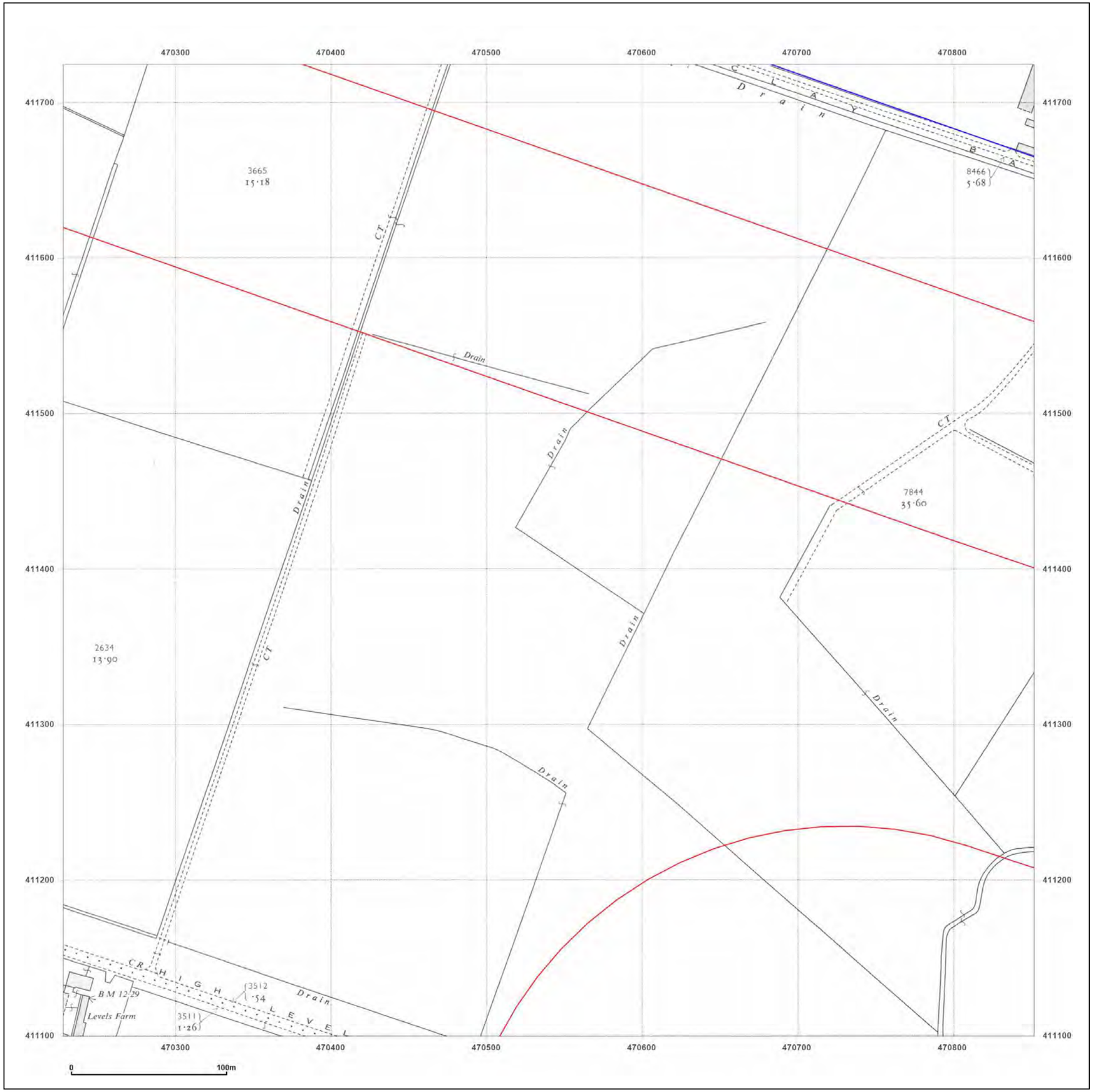
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_5
Grid Ref: 470540, 411412

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_5
Grid Ref: 470540, 411412

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

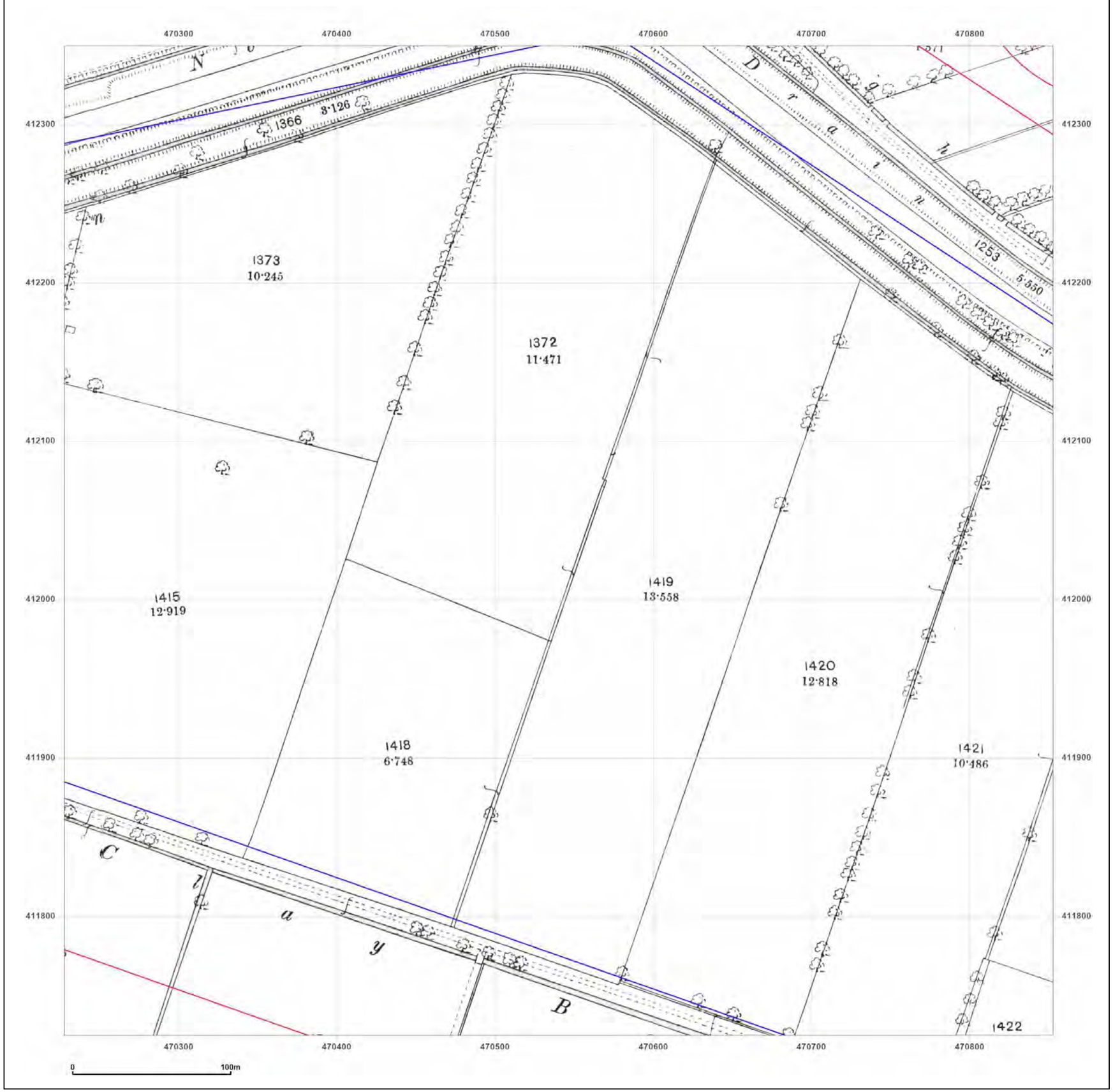
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Site Details:

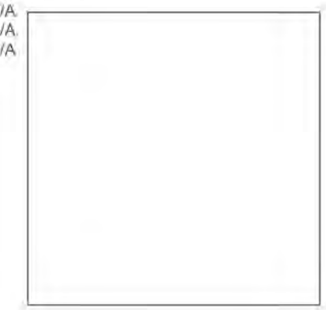
Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_6
Grid Ref: 470540, 412037

Map Name: County Series
Map date: **1892**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A



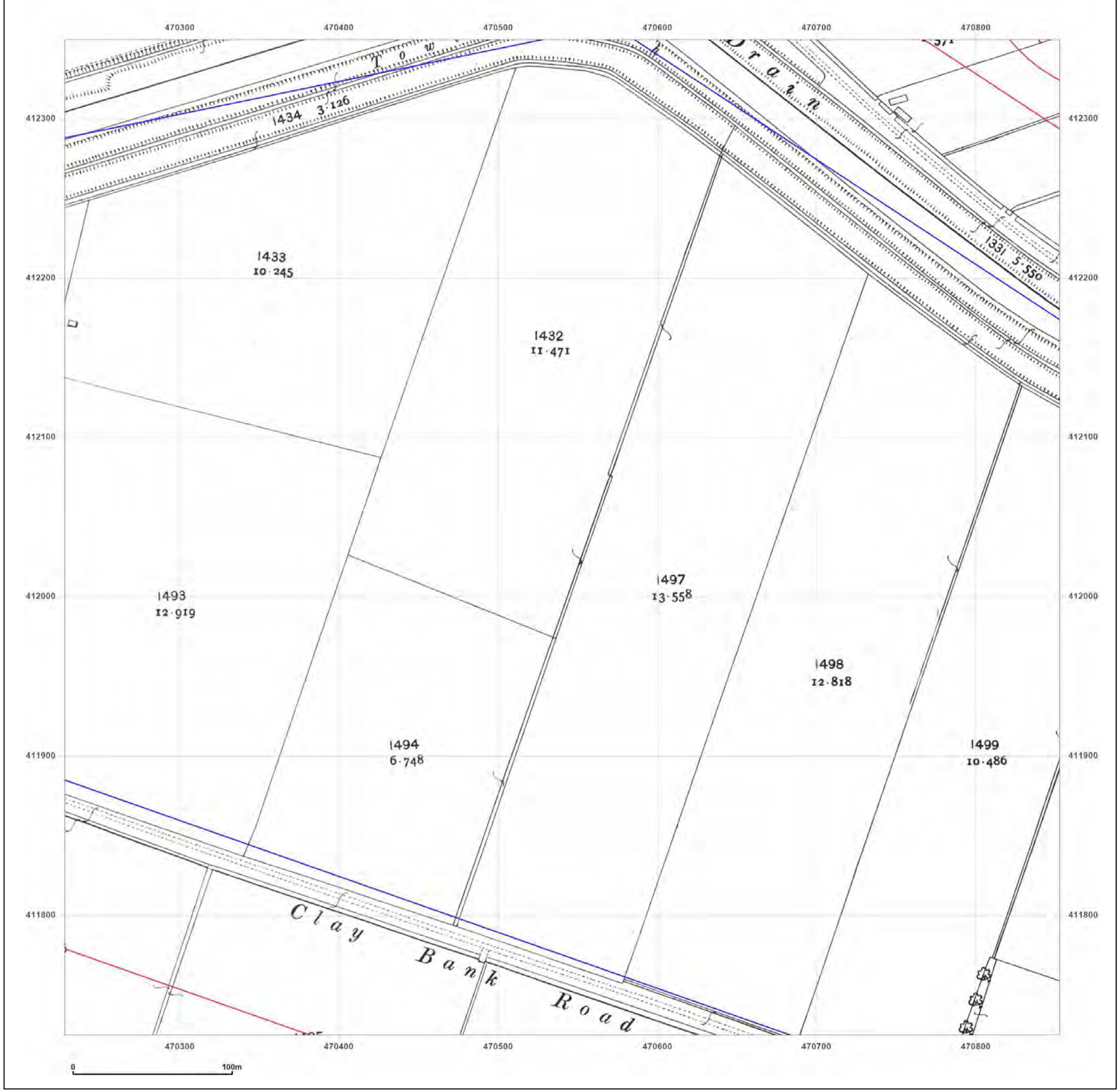
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_6
Grid Ref: 470540, 412037

Map Name: County Series

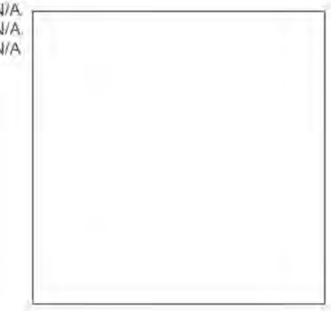
Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A



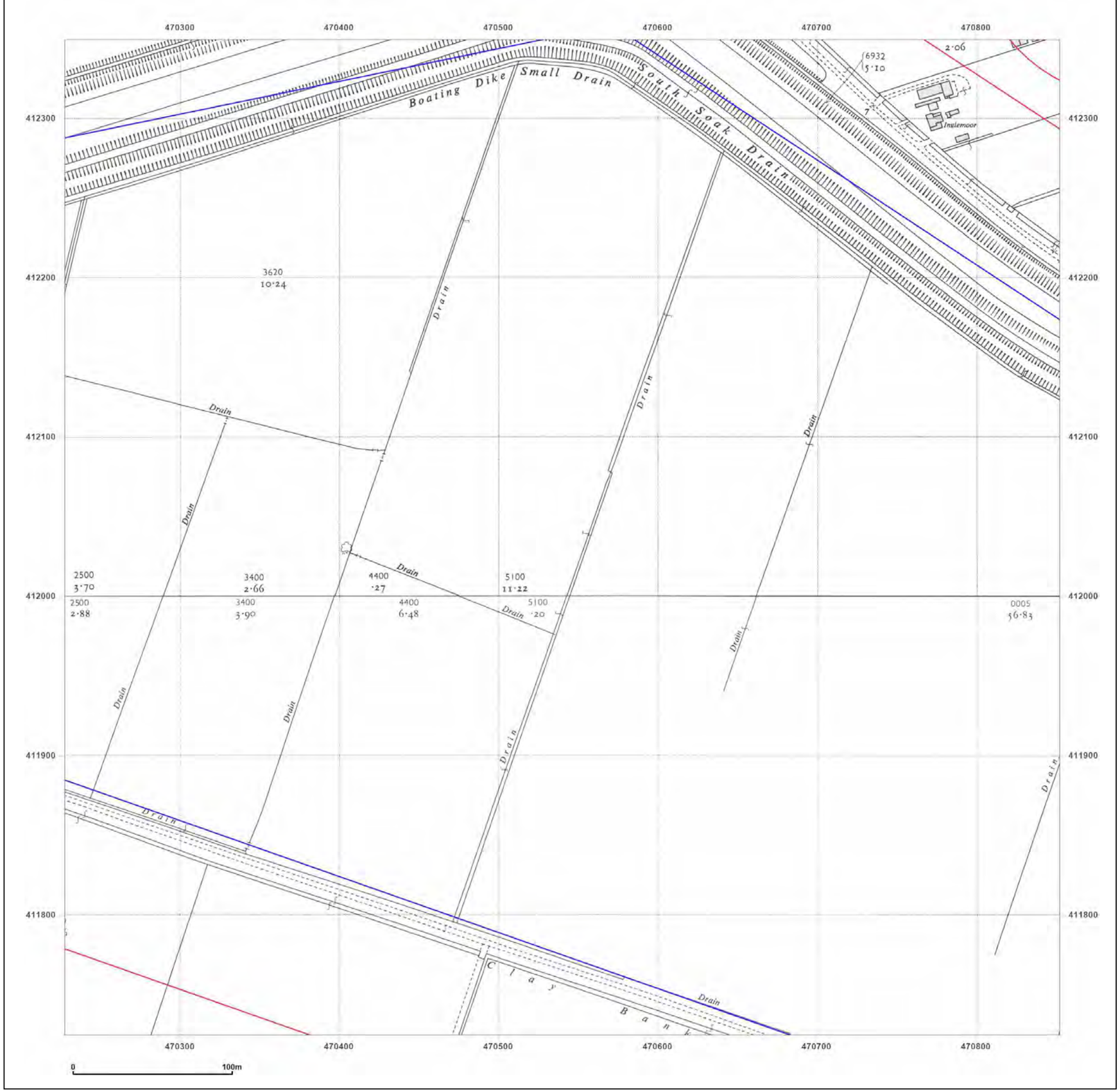
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_6
Grid Ref: 470540, 412037

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1961

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_6
Grid Ref: 470540, 412037

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

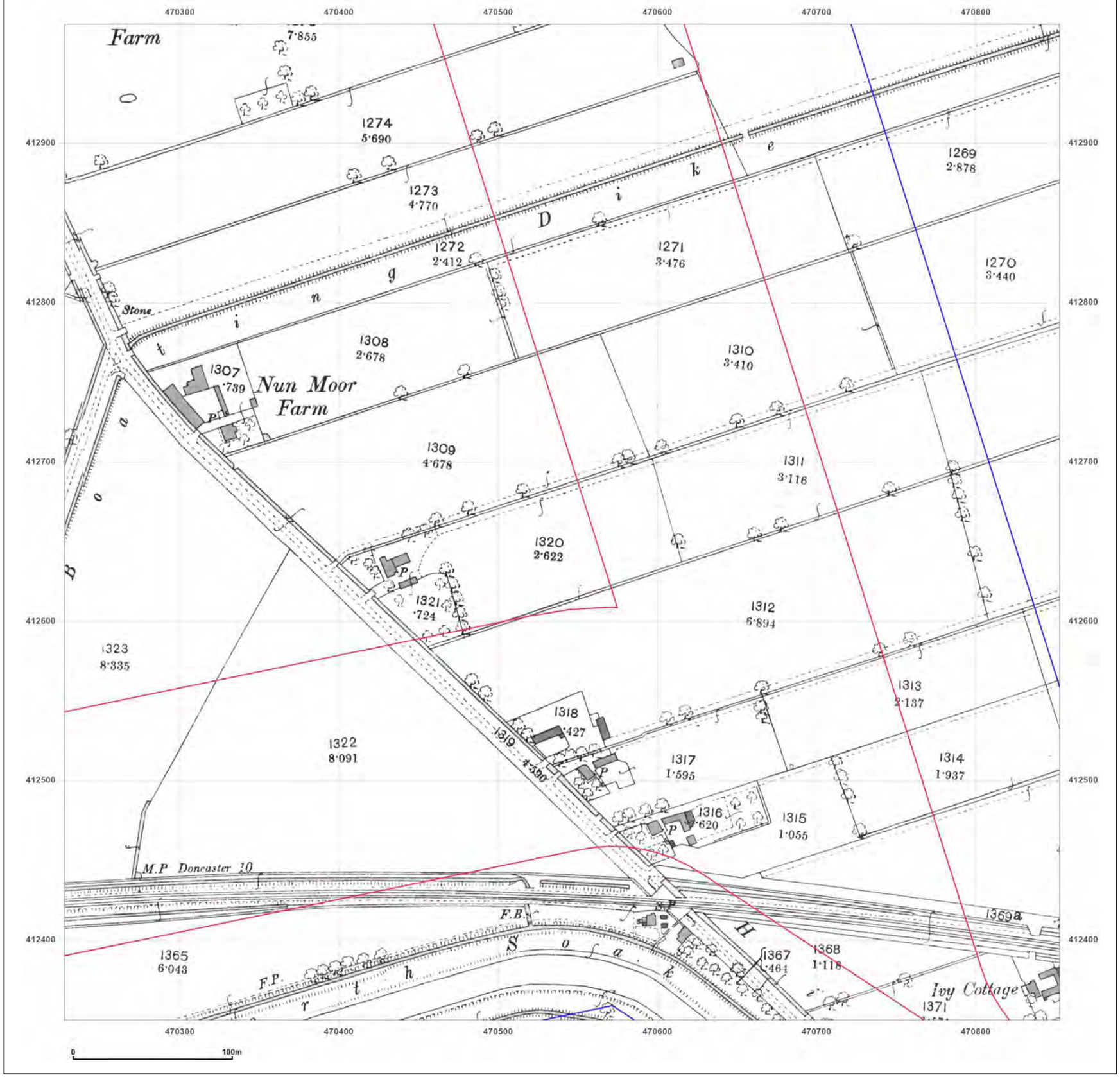
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_7
Grid Ref: 470540, 412662

Map Name: County Series
Map date: 1892
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_7
Grid Ref: 470540, 412662

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

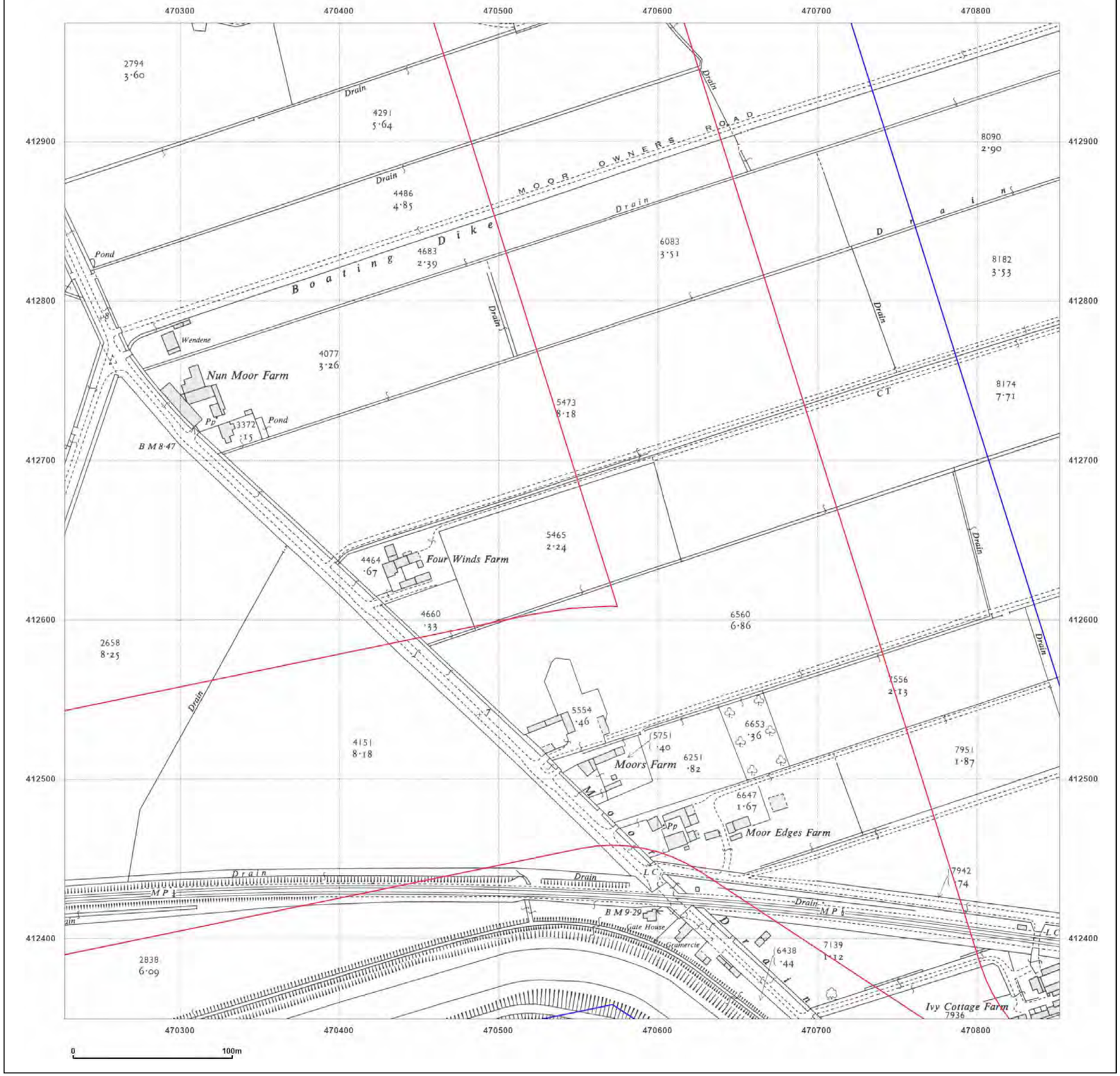
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_7
Grid Ref: 470540, 412662

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1961

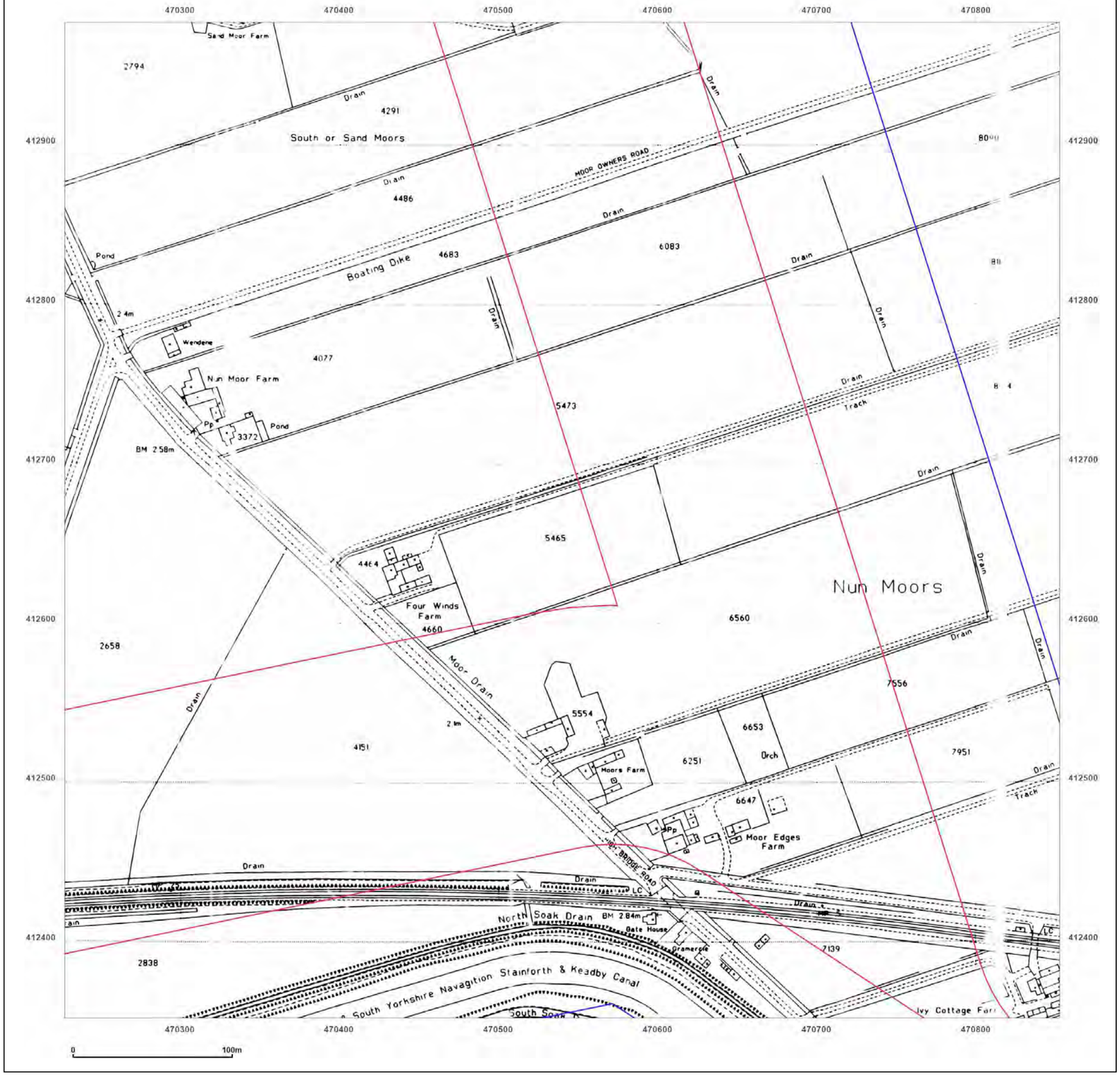
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Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_7
Grid Ref: 470540, 412662

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

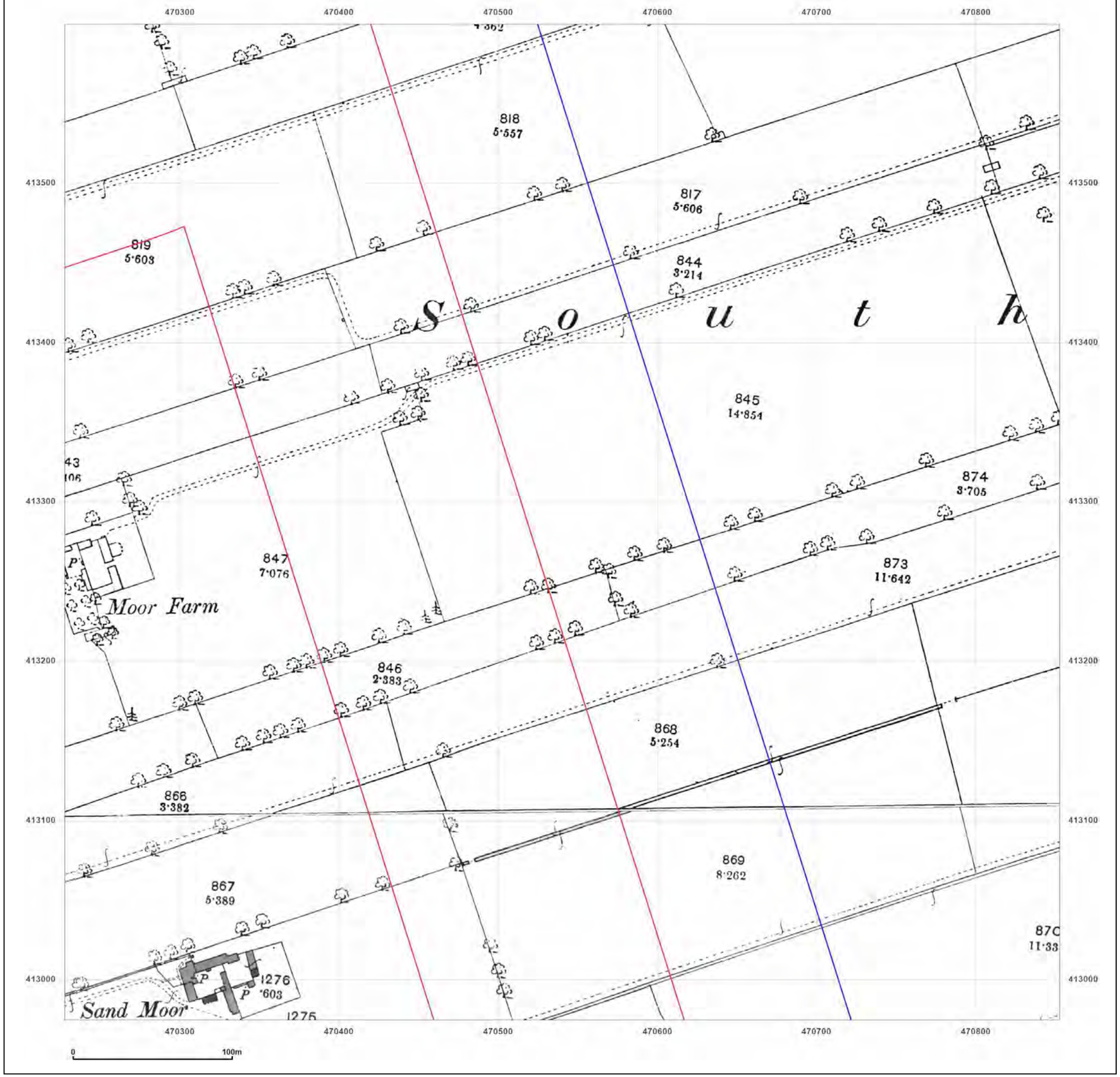
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_8
Grid Ref: 470540, 413287

Map Name: County Series

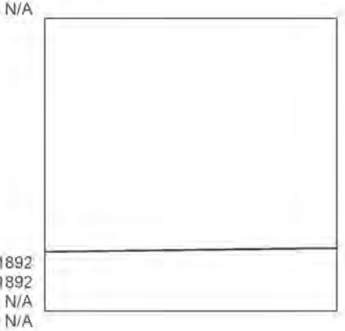
Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1890
Revised N/A
Edition 1892
Copyright N/A
Levelled N/A



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

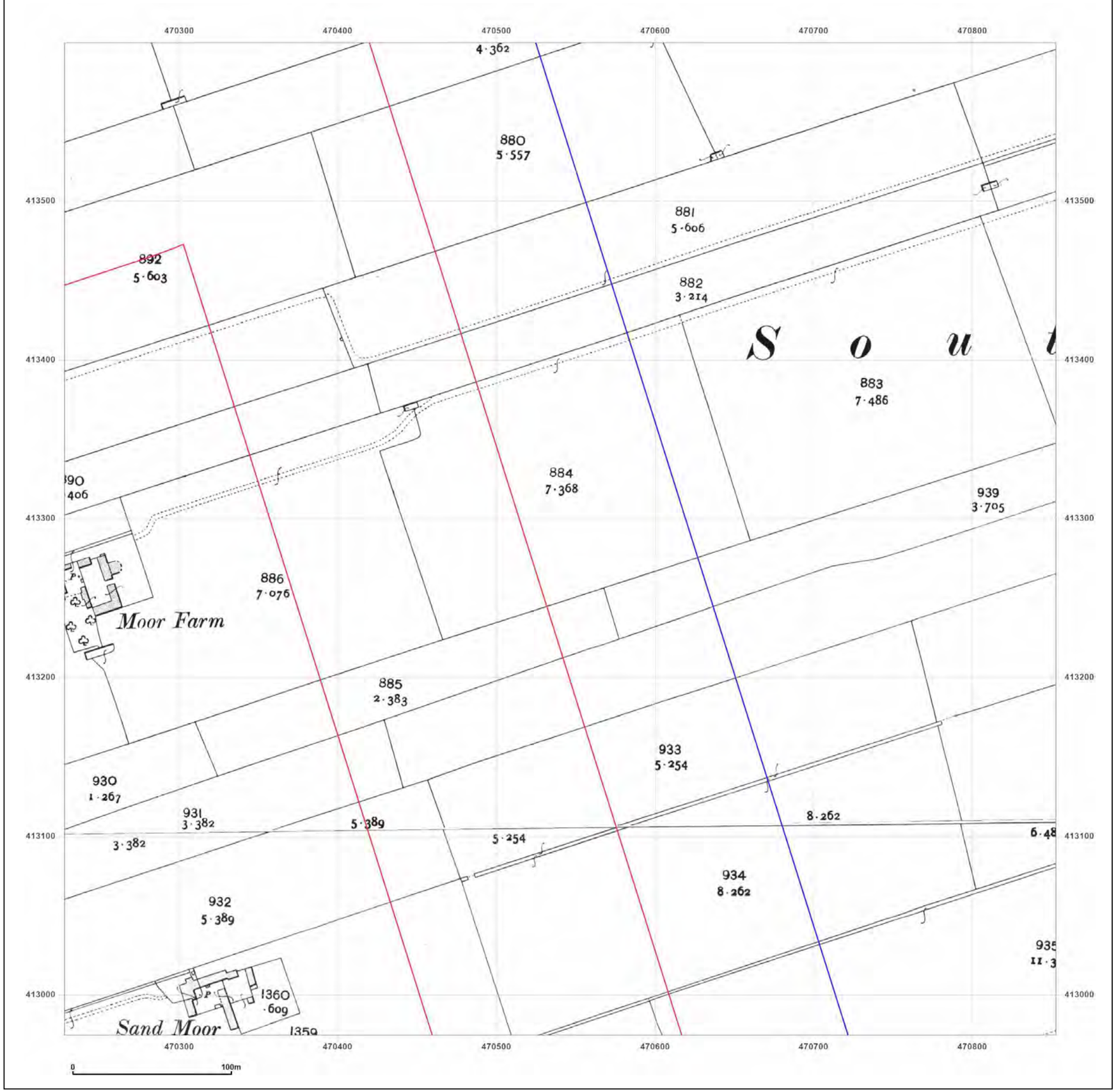
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_8
Grid Ref: 470540, 413287

Map Name: County Series

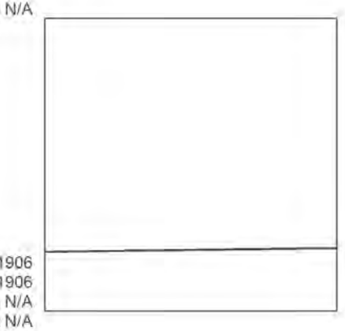
Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

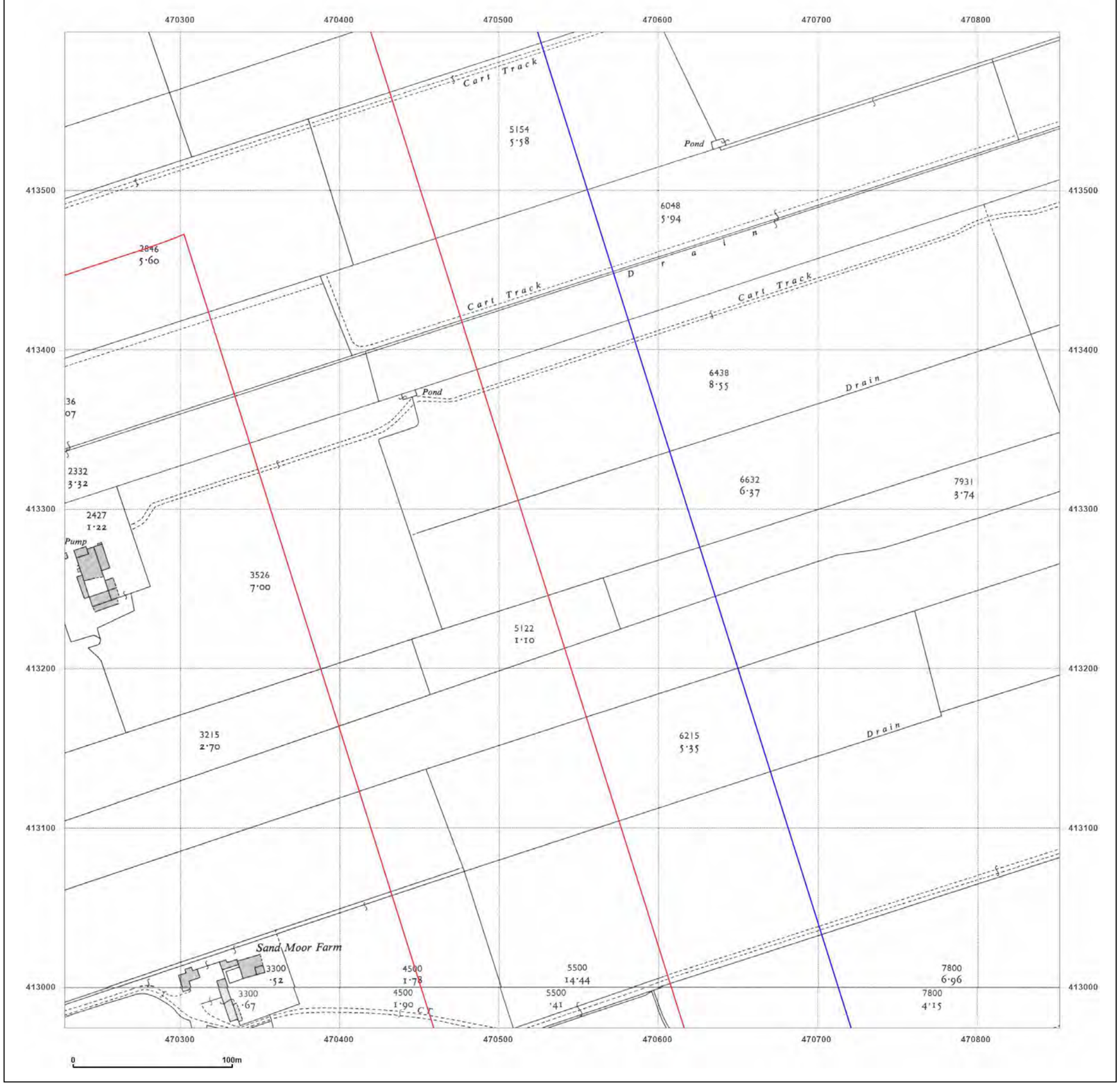
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_8
Grid Ref: 470540, 413287

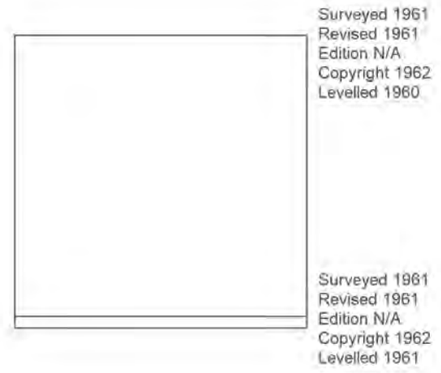
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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S



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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_8
Grid Ref: 470540, 413287

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_9
Grid Ref: 470540, 413912

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1890
Revised N/A
Edition 1892
Copyright N/A
Levelled N/A

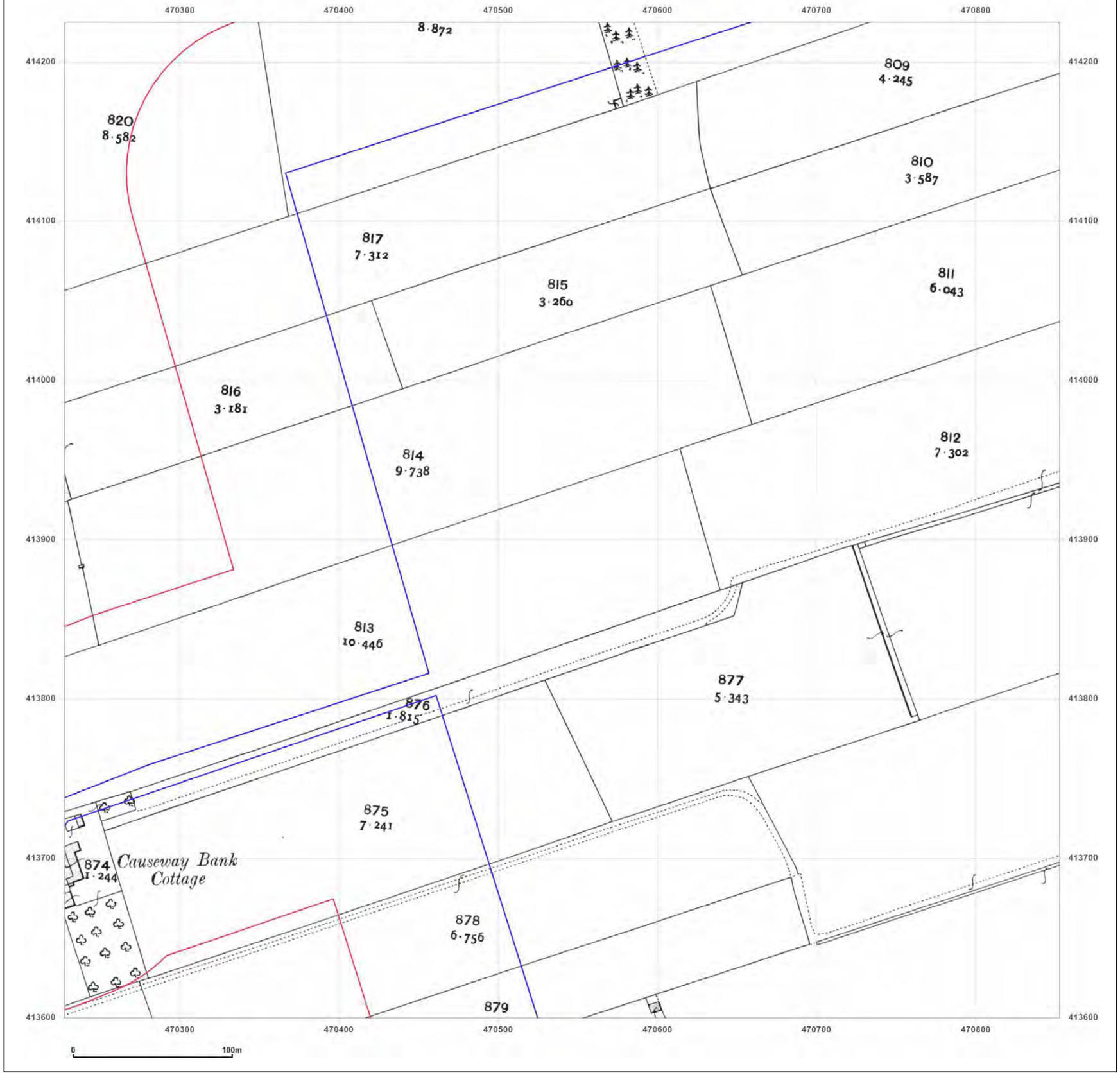
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_9
Grid Ref: 470540, 413912

Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

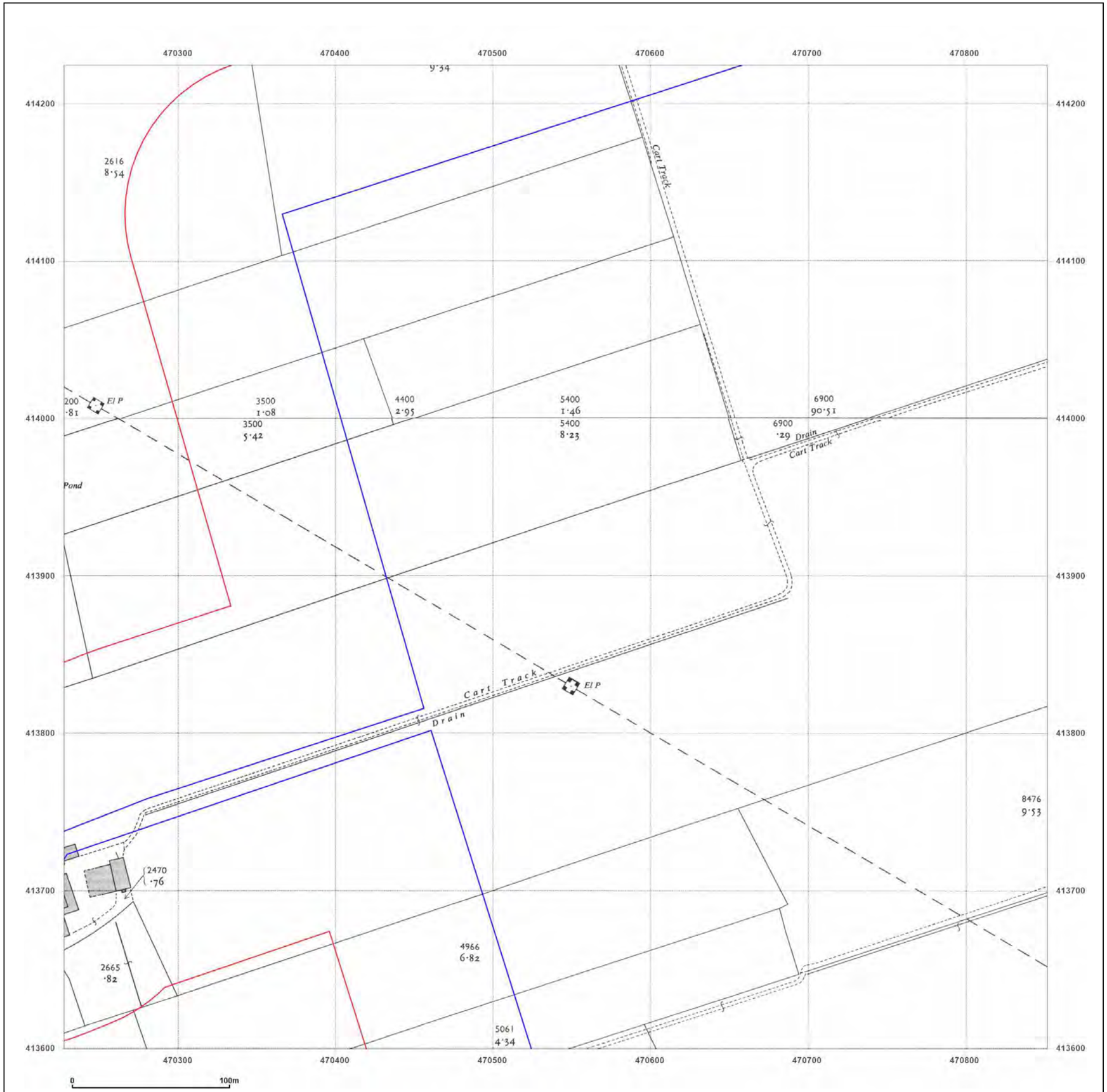
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_9
Grid Ref: 470540, 413912

Map Name: National Grid

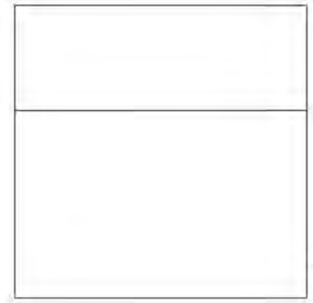
Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960



Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

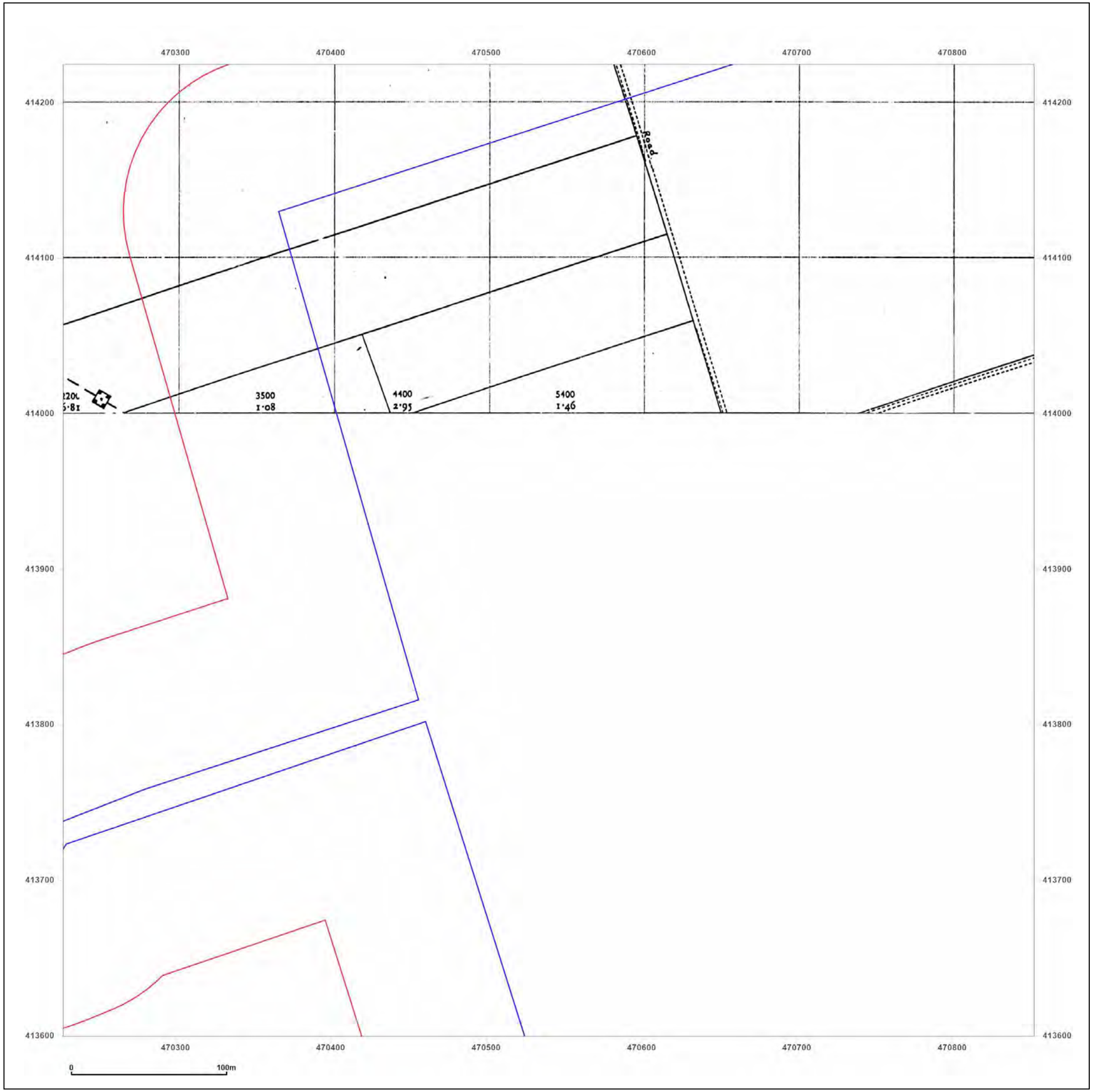
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_9
Grid Ref: 470540, 413912

Map Name: National Grid

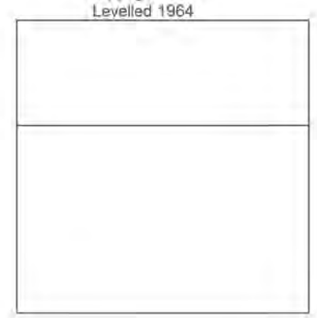
Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964



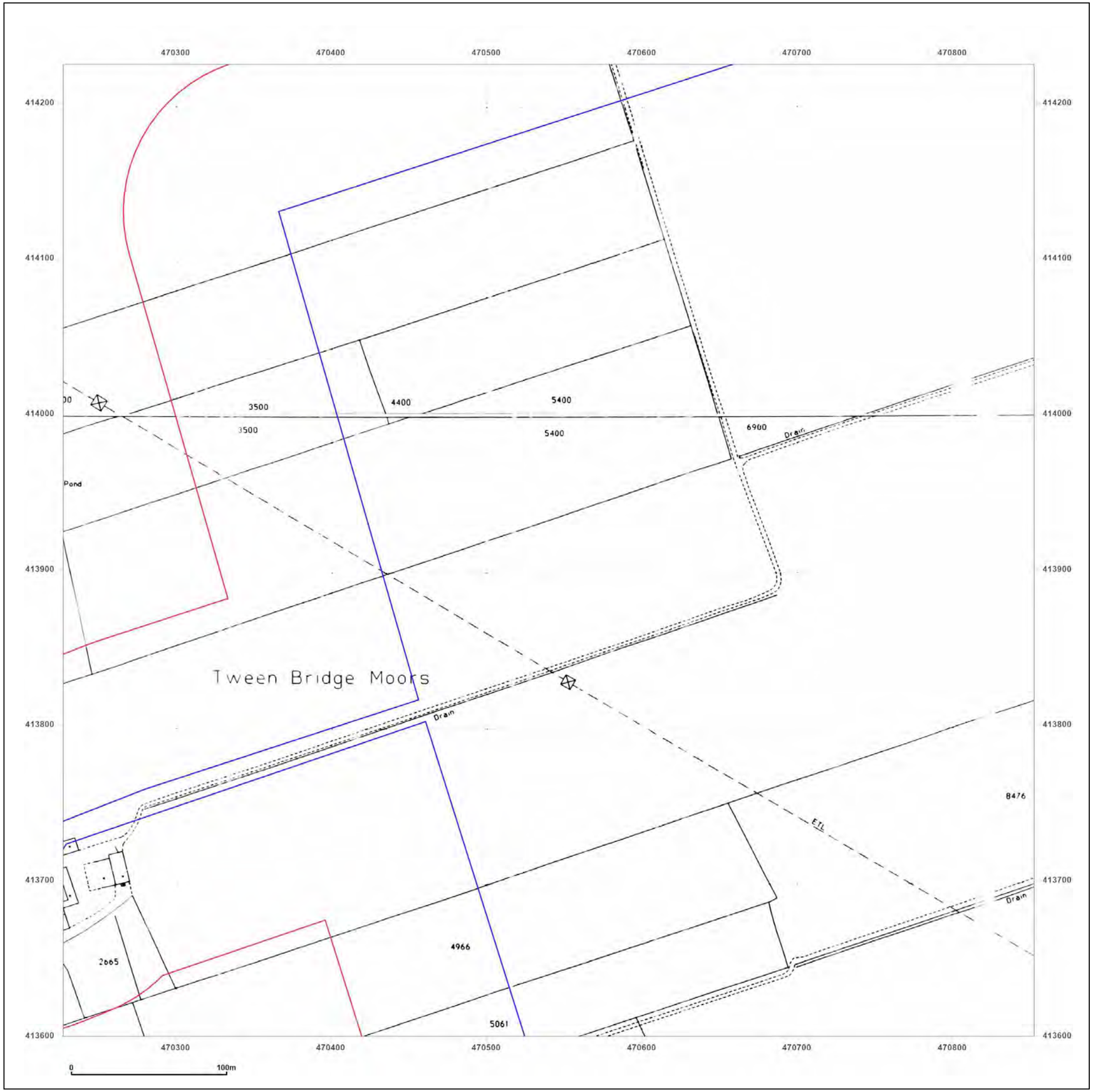
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_9
Grid Ref: 470540, 413912

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

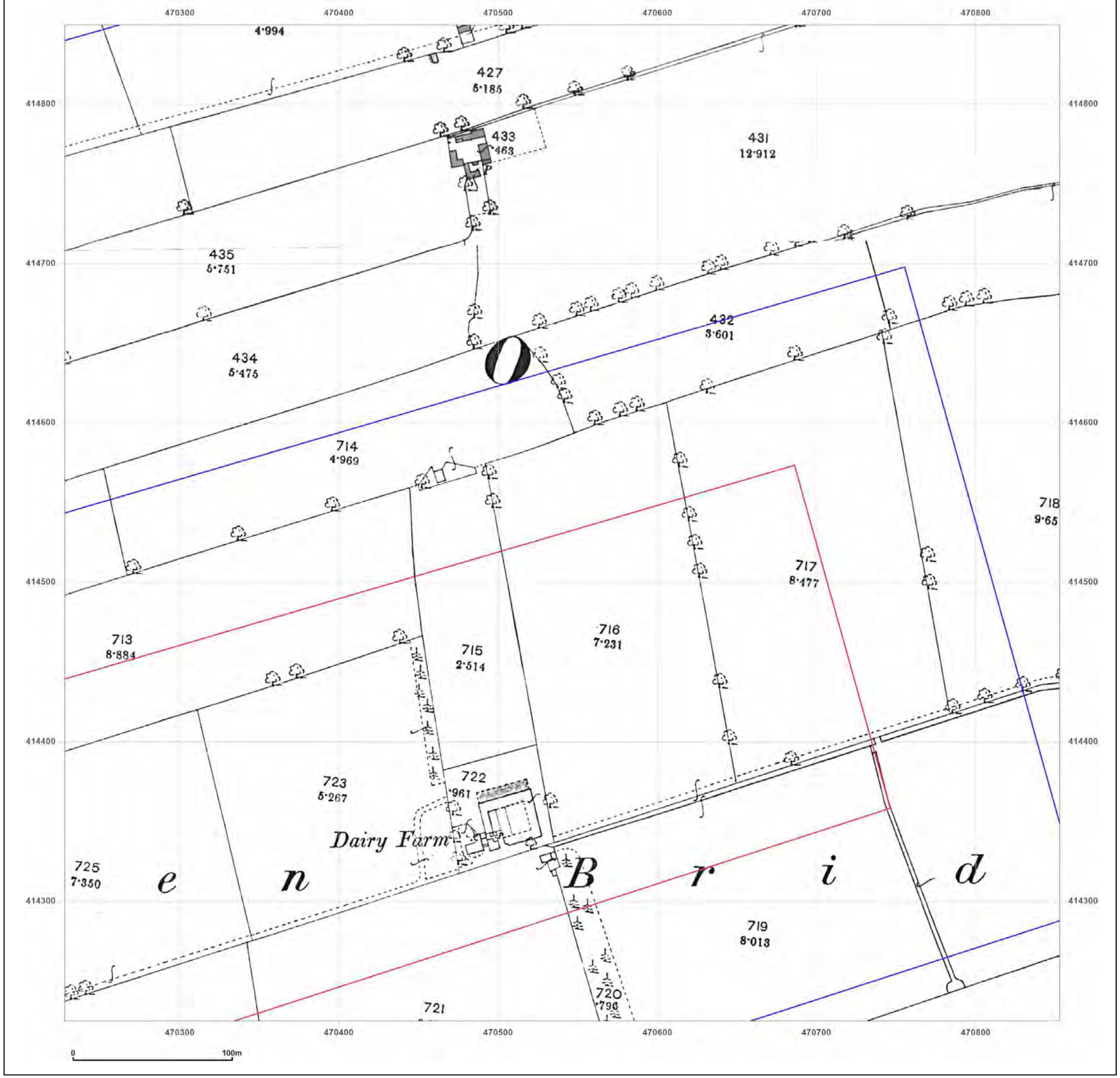
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Site Details:

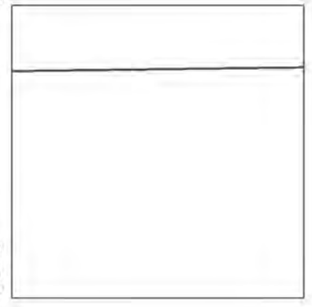
Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_10
Grid Ref: 470540, 414537

Map Name: County Series
Map date: **1892**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1890
Revised N/A
Edition 1892
Copyright N/A
Levelled N/A

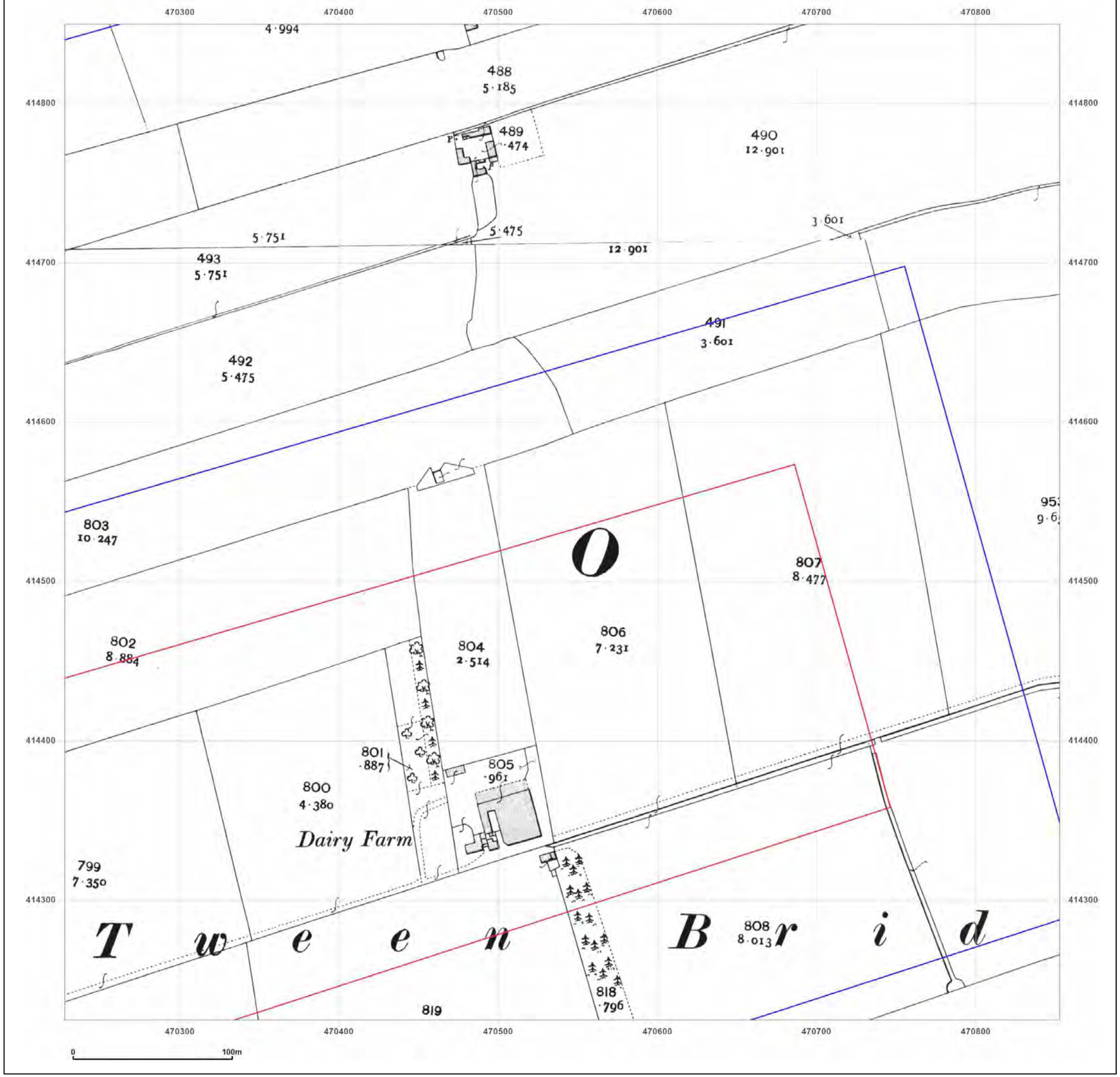
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Site Details:

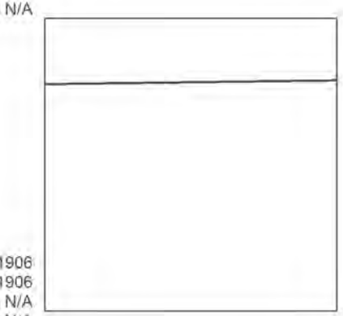
Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_10
Grid Ref: 470540, 414537

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

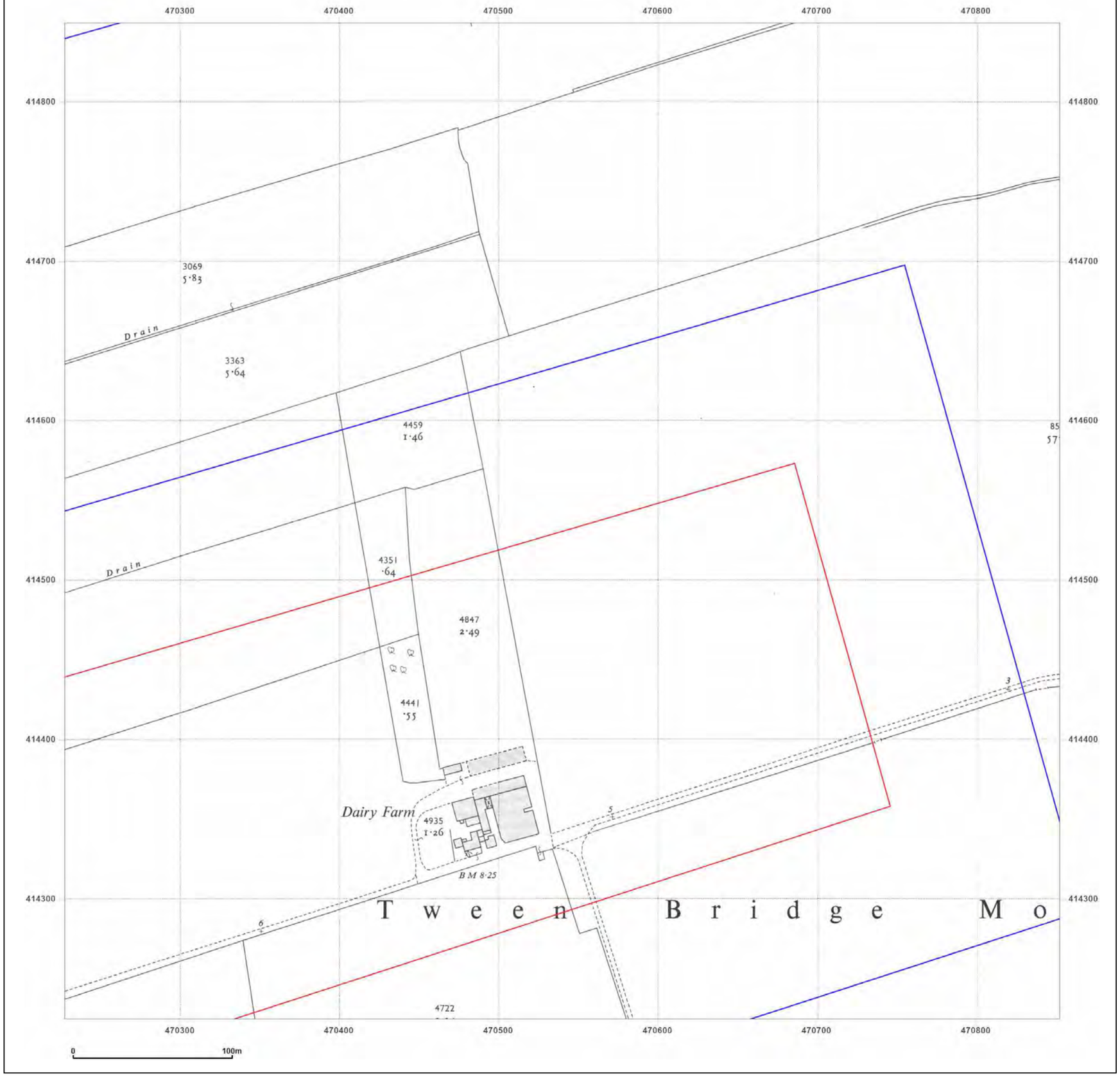
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_10
Grid Ref: 470540, 414537

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

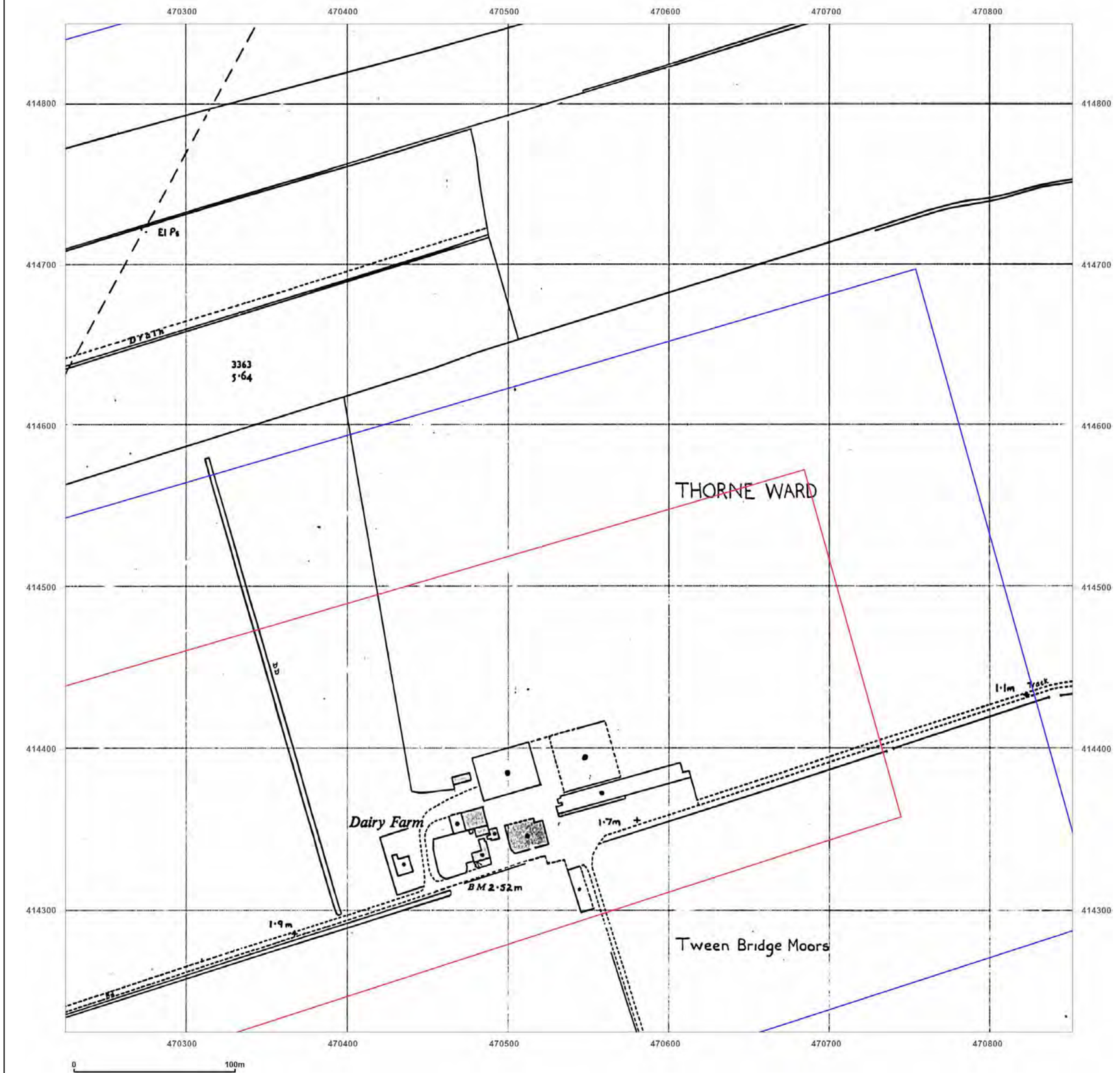
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_10
Grid Ref: 470540, 414537

Map Name: National Grid

Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_10
Grid Ref: 470540, 414537

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

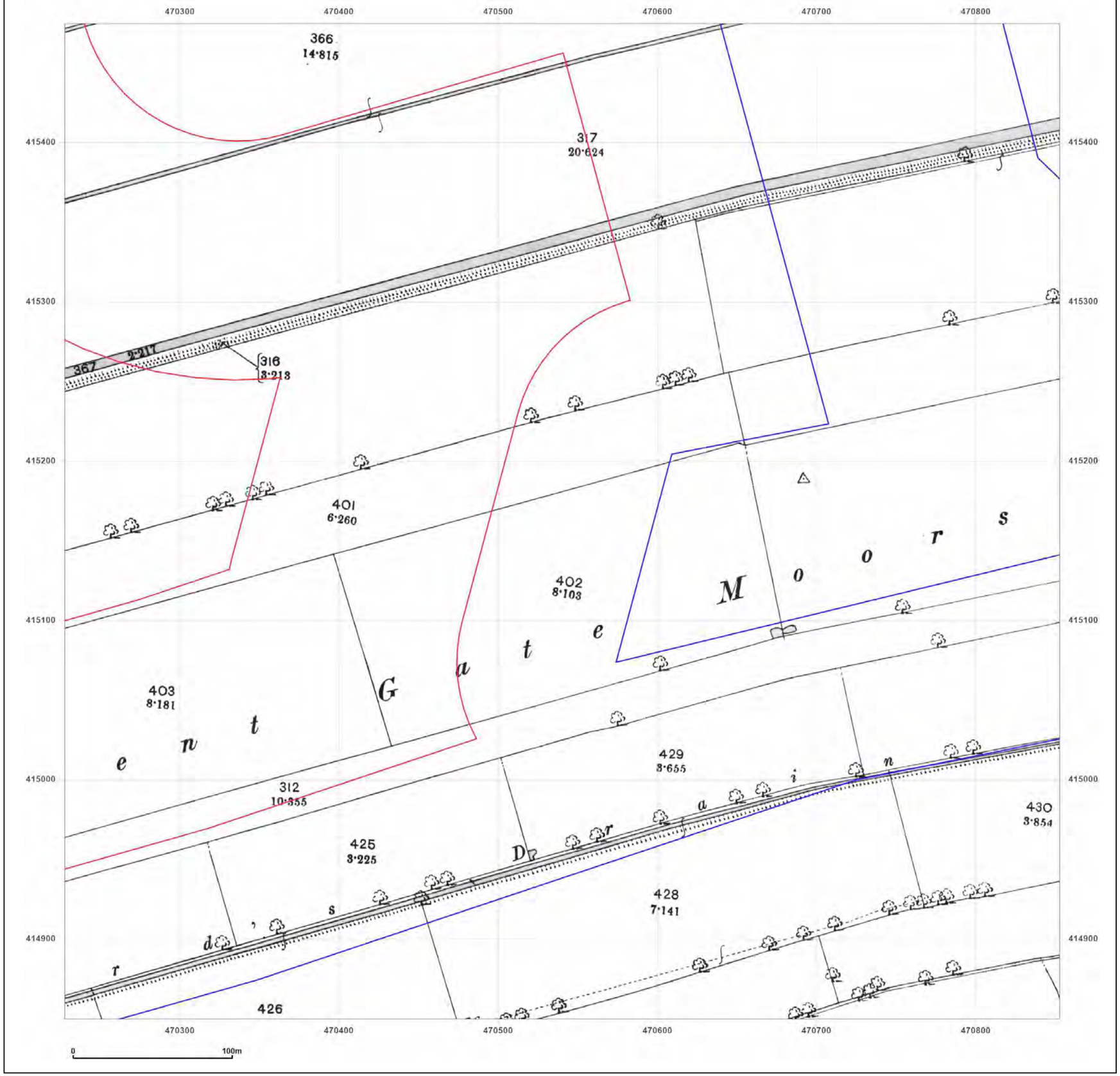
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_11
Grid Ref: 470540, 415162

Map Name: County Series

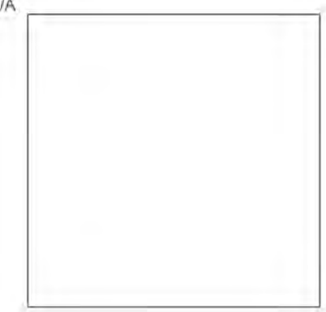
Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A



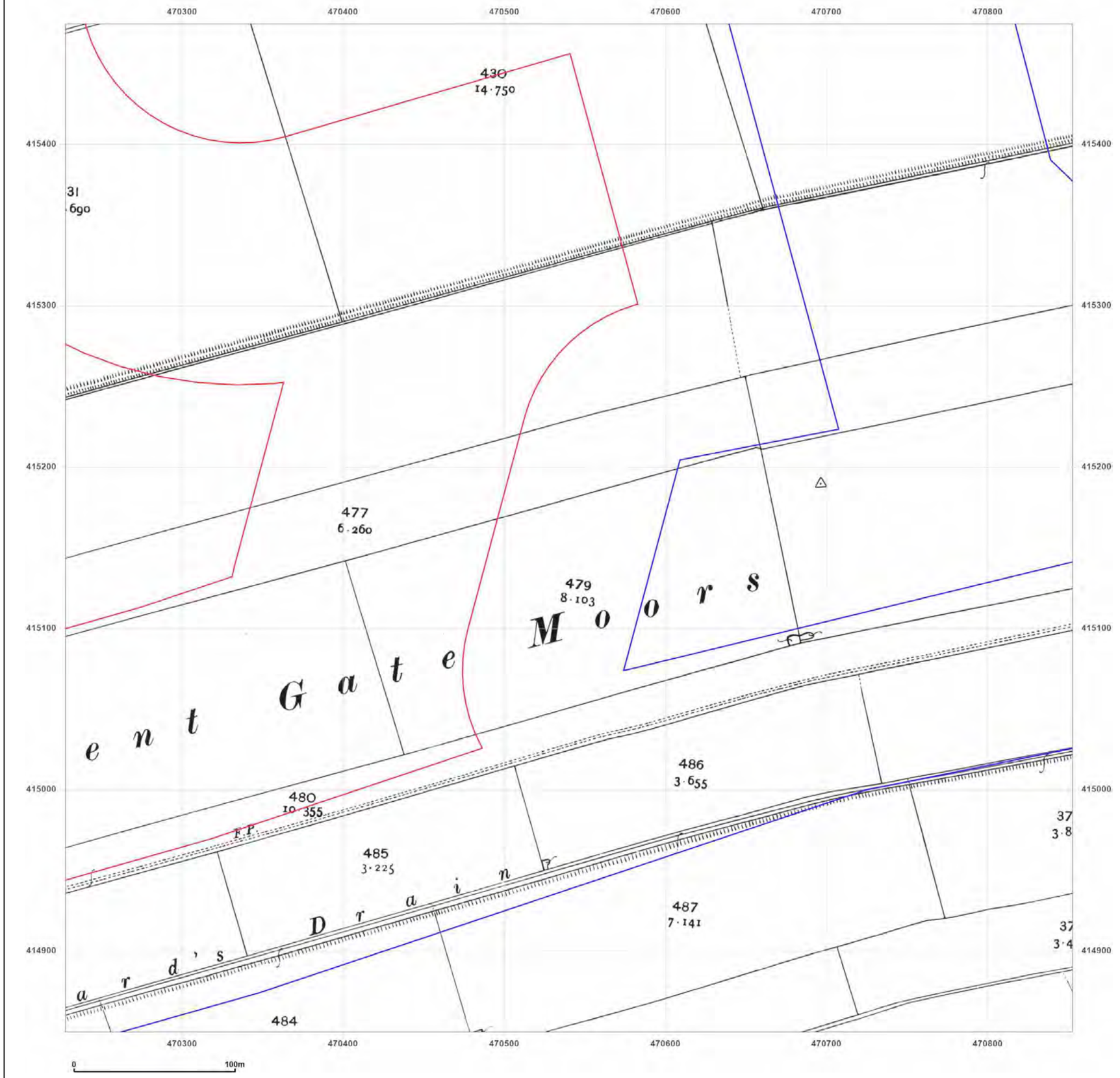
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_11
Grid Ref: 470540, 415162

Map Name: County Series

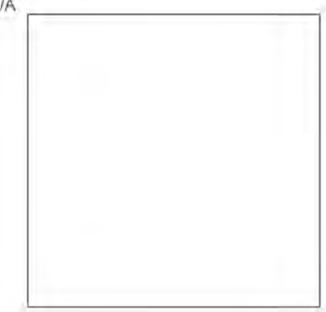
Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A



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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_11
Grid Ref: 470540, 415162

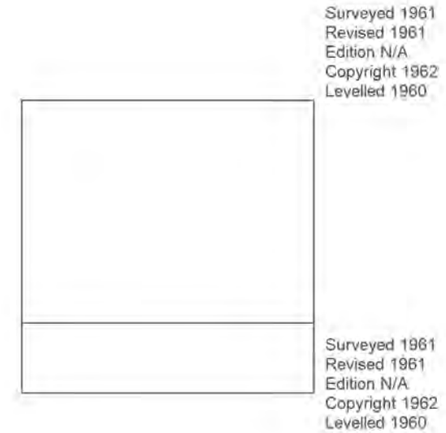
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



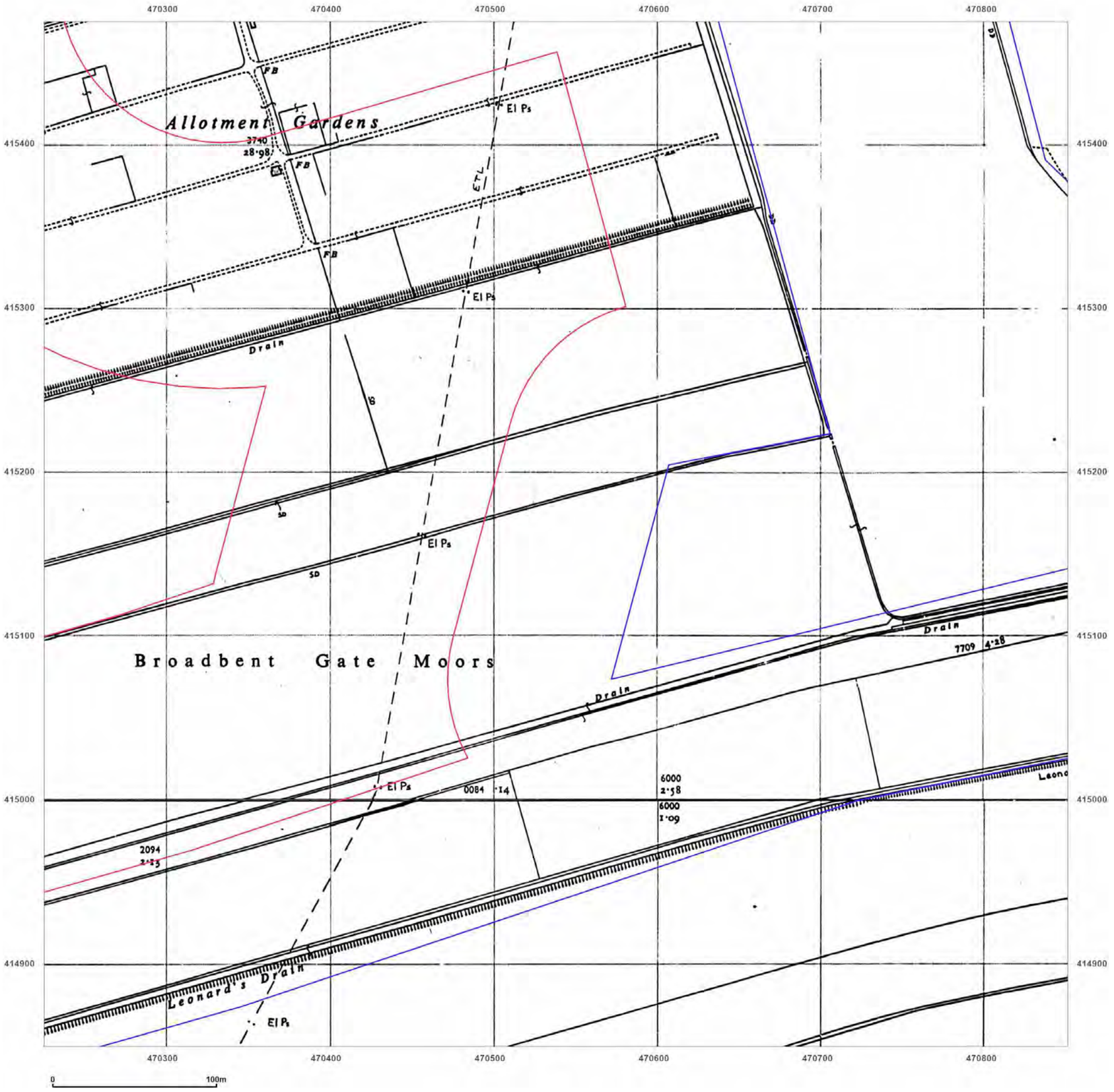
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_11
Grid Ref: 470540, 415162

Map Name: National Grid

Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964

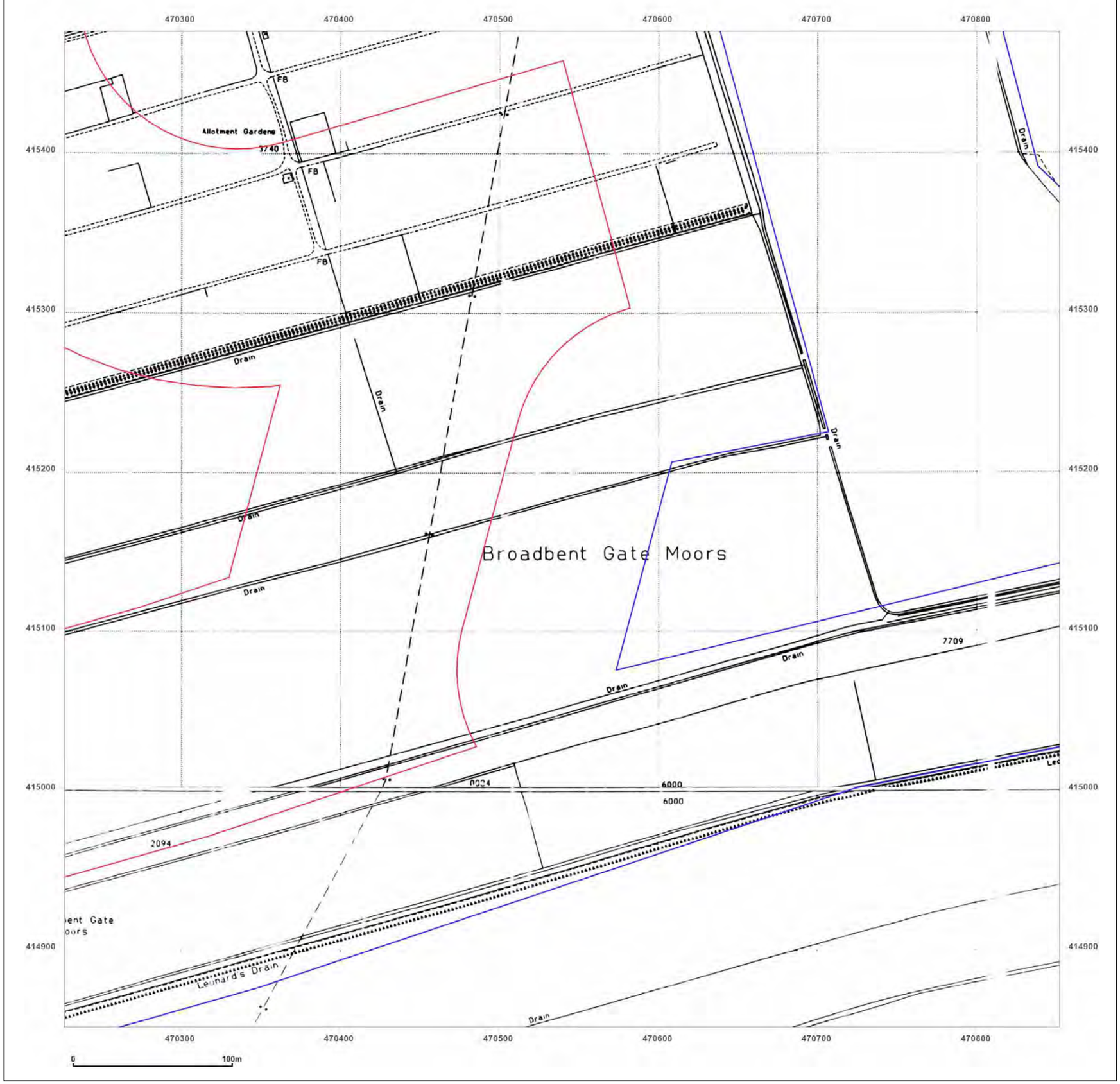
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_11
Grid Ref: 470540, 415162

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

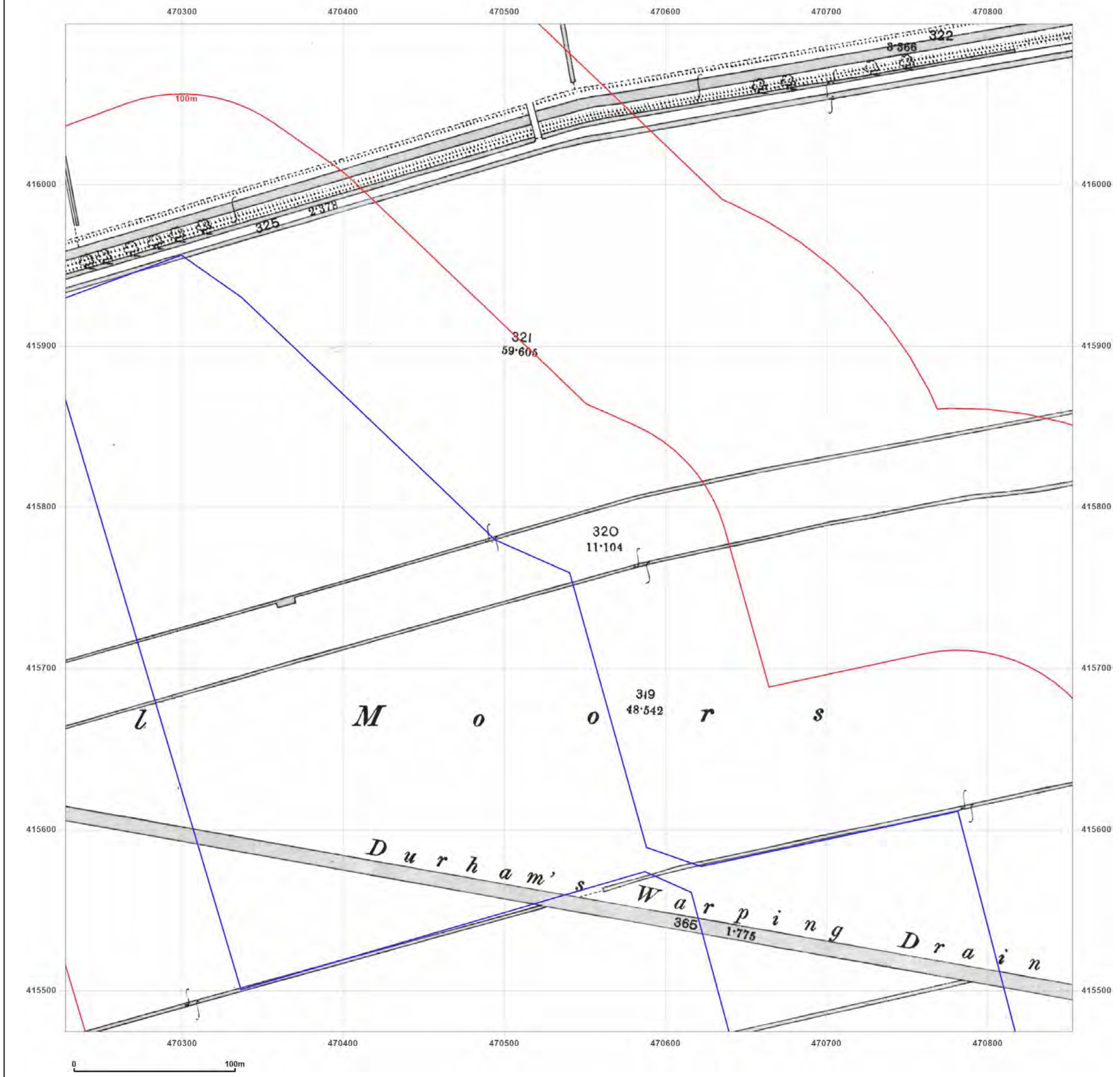
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_12
Grid Ref: 470540, 415787

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

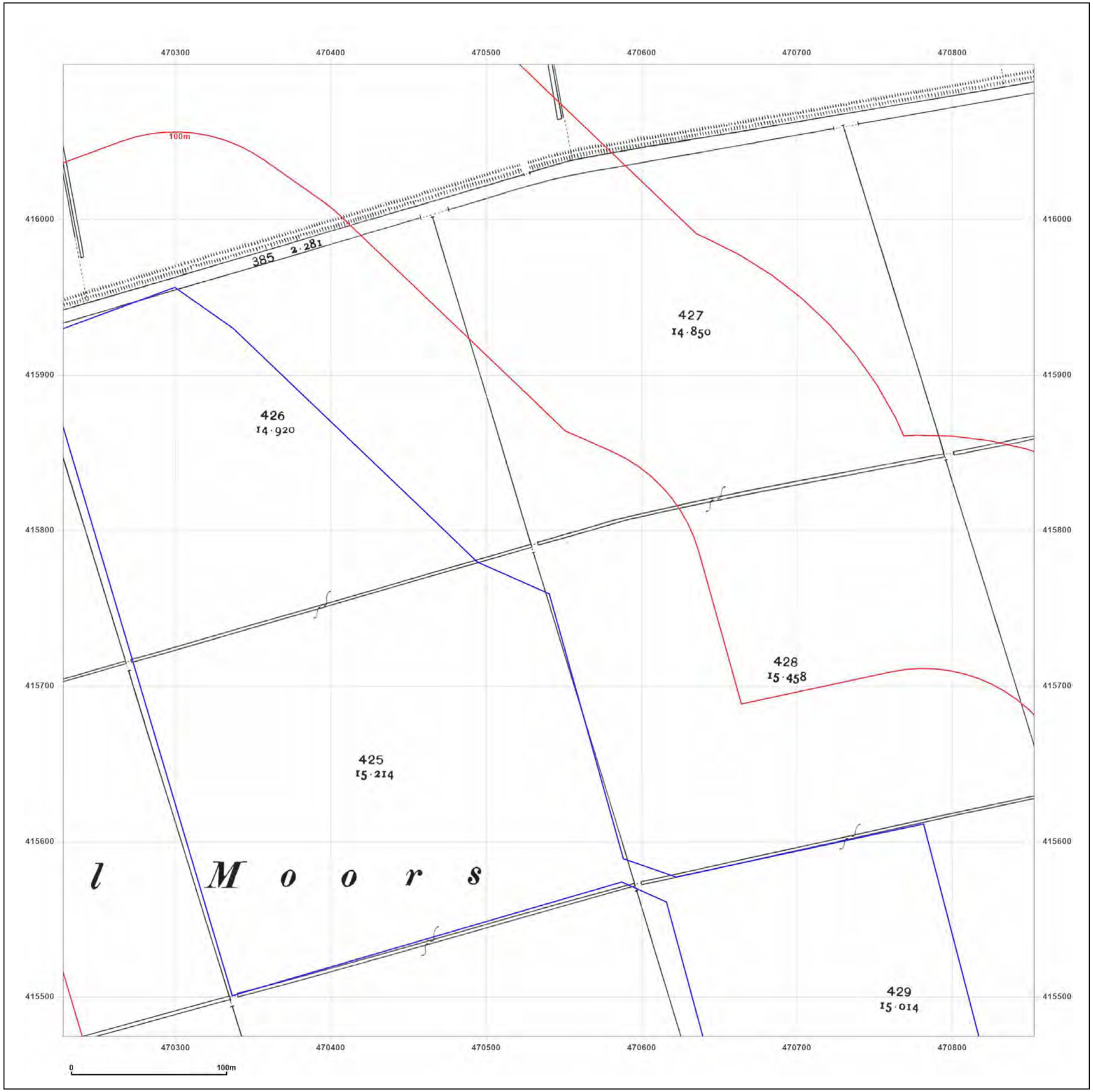
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Production date: 03 March 2023

Map legend available at:
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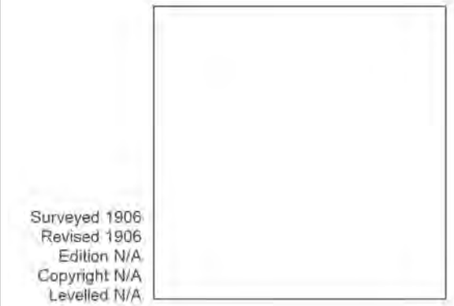
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_12
Grid Ref: 470540, 415787

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



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Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_12
Grid Ref: 470540, 415787

Map Name: National Grid

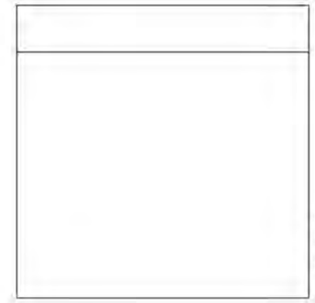
Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960



Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

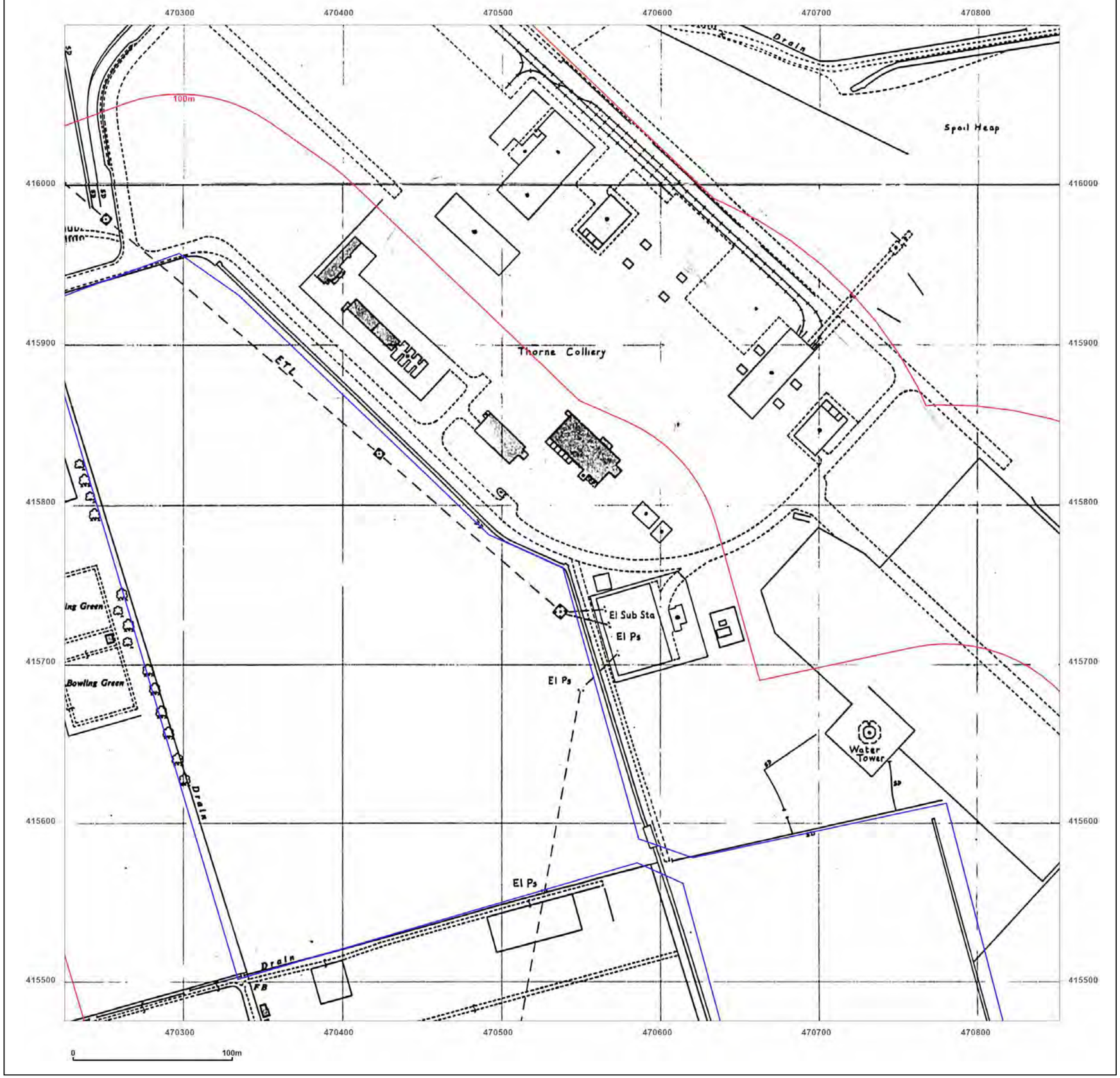
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Production date: 03 March 2023

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_4_12
Grid Ref: 470540, 415787

Map Name: National Grid

Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964

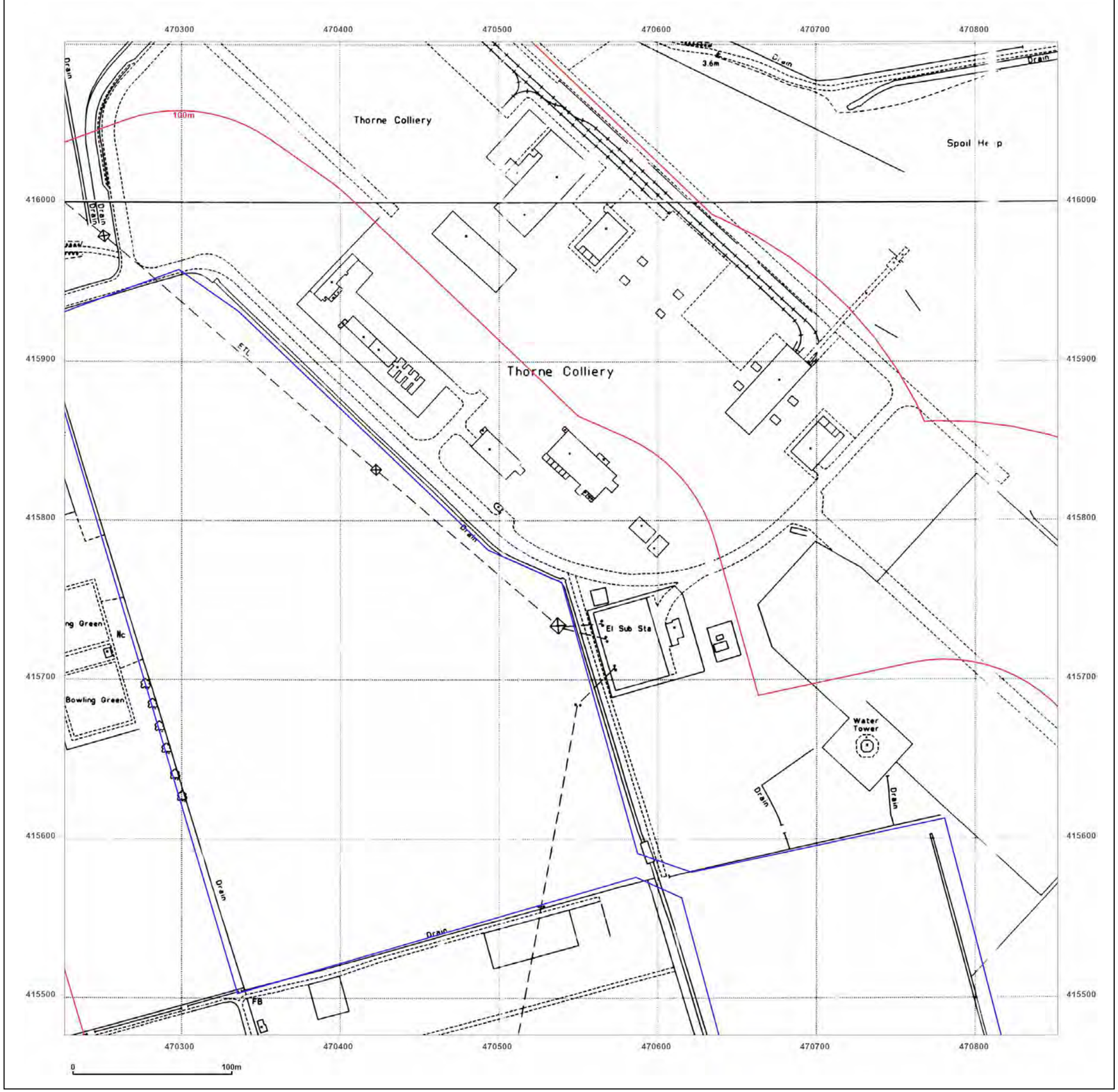
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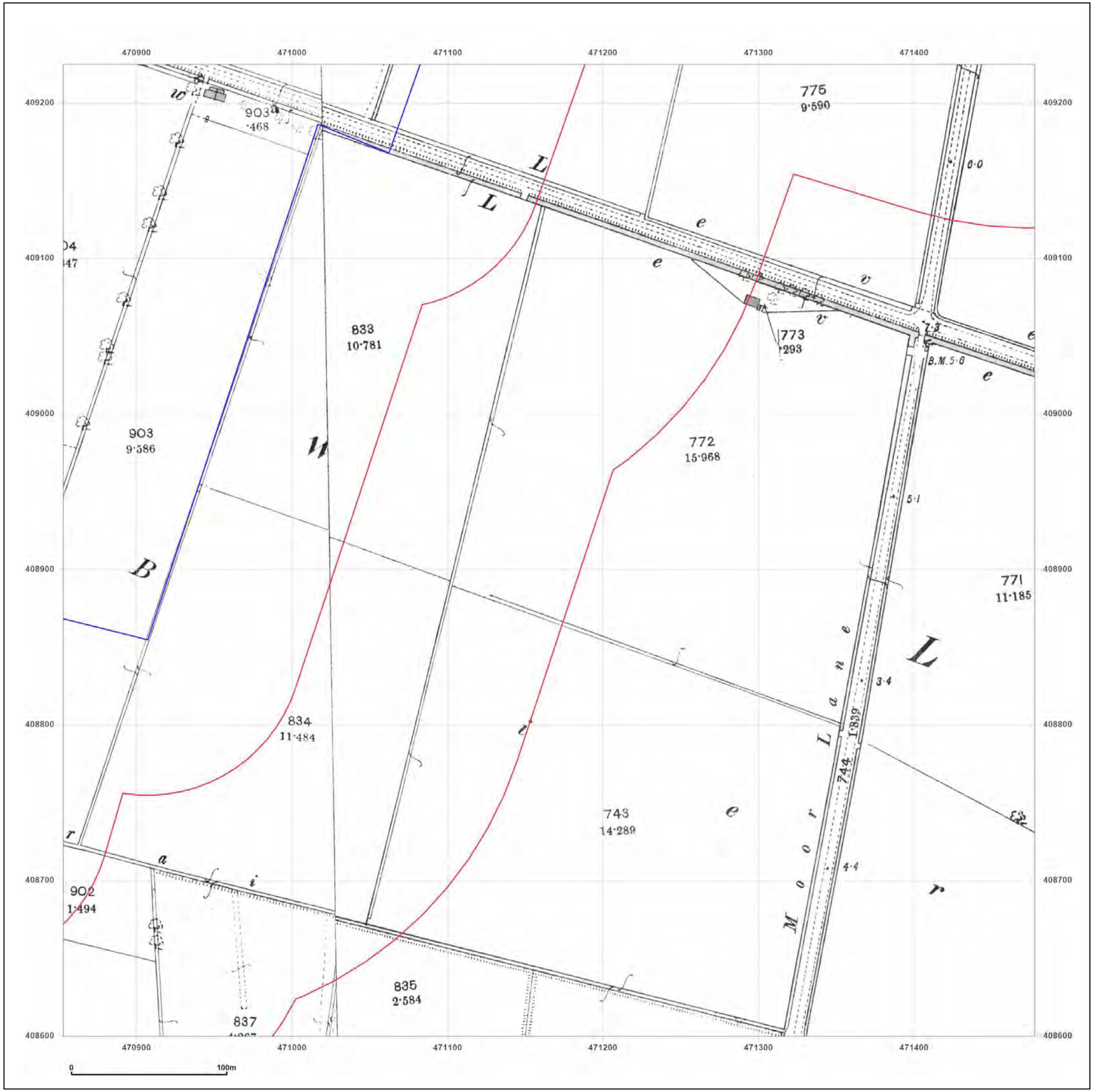
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470300
470400
470500
470600
470700
470800
416000
415900
415800
415700
415600
415500
Thorne Colliery
Thorne Colliery
Spoil He p
100m
3.6m
Drain
Drain
Drain



Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_1
Grid Ref: 471165, 408912

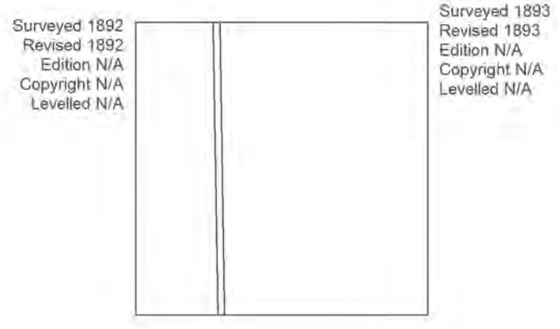
Map Name: County Series

Map date: **1892-1893**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



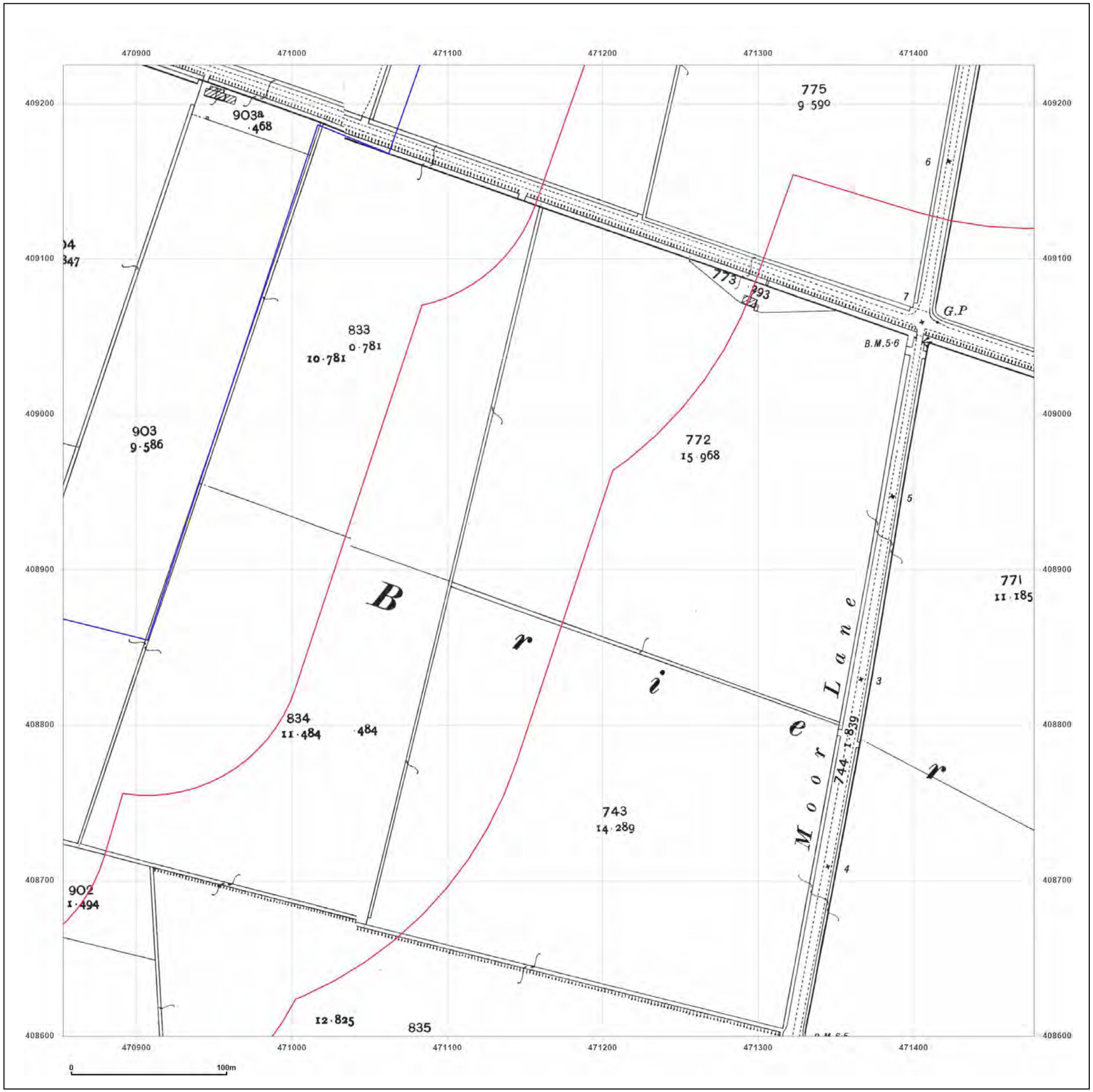
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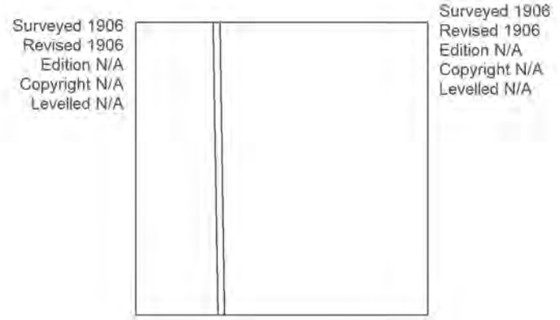
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_1
Grid Ref: 471165, 408912

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



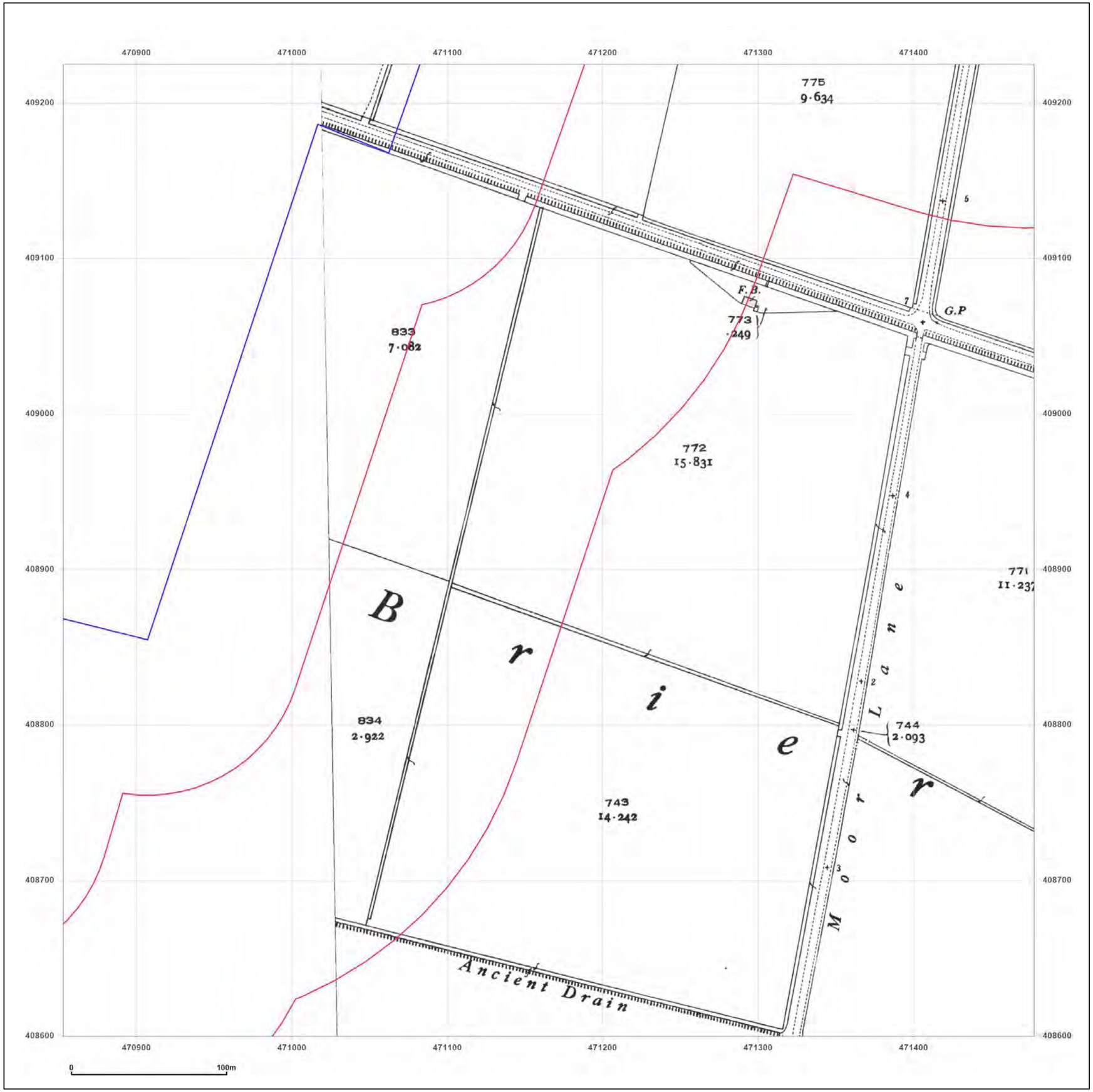
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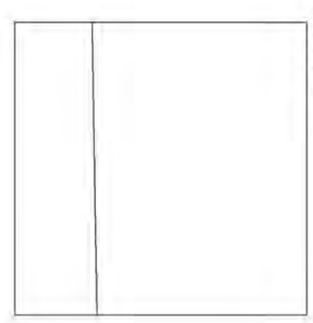
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_1
Grid Ref: 471165, 408912

Map Name: County Series
Map date: **1931**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



Surveyed 1931
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

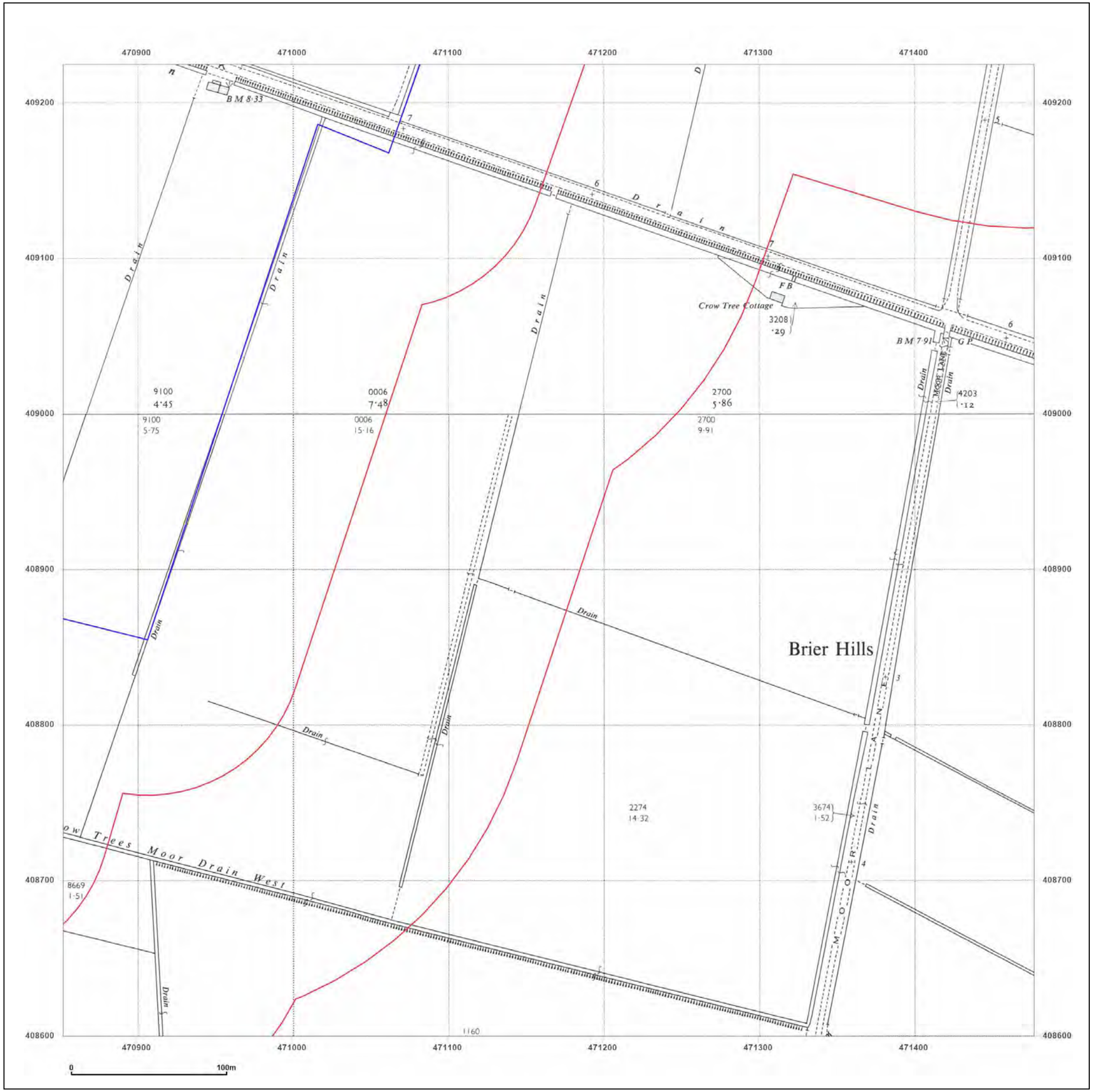
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_1
Grid Ref: 471165, 408912

Map Name: National Grid

Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1964
Levelled 1960

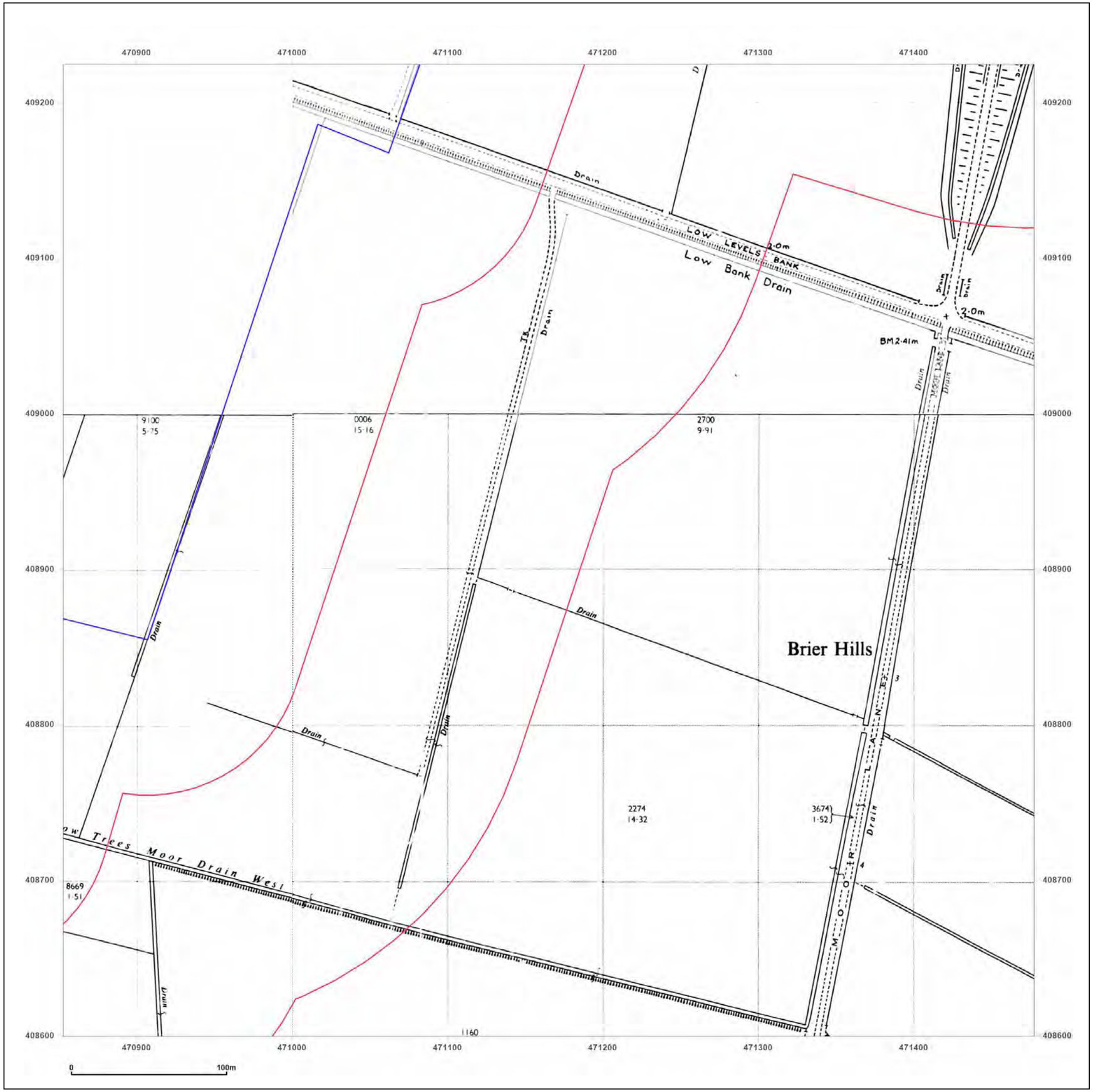
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_1
Grid Ref: 471165, 408912

Map Name: National Grid

Map date: **1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1964

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

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

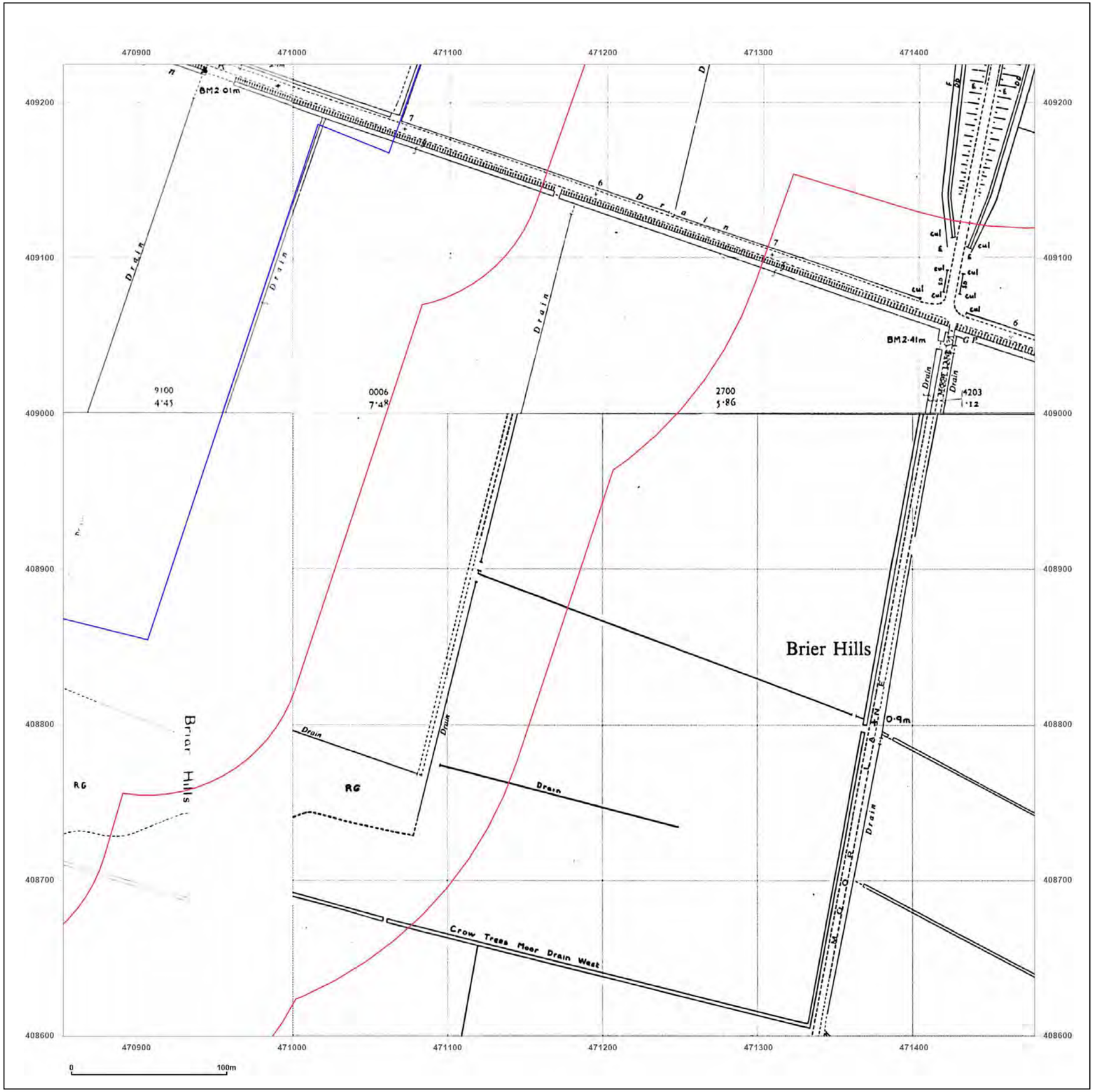
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_1
Grid Ref: 471165, 408912

Map Name: National Grid

Map date: **1978-1981**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled N/A

Surveyed 1964
Revised 1981
Edition N/A
Copyright 1981
Levelled 1964

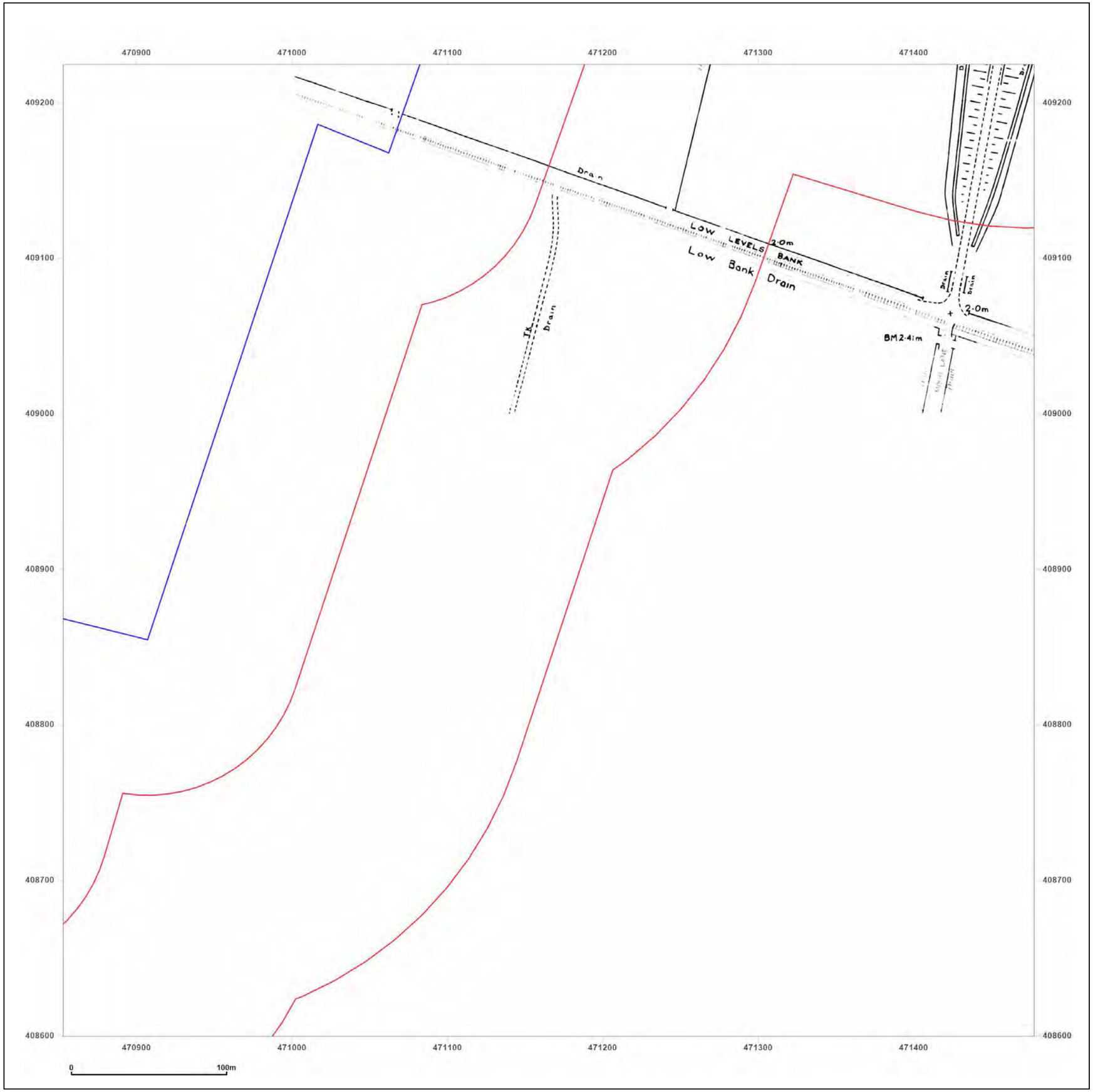
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_1
Grid Ref: 471165, 408912

Map Name: National Grid

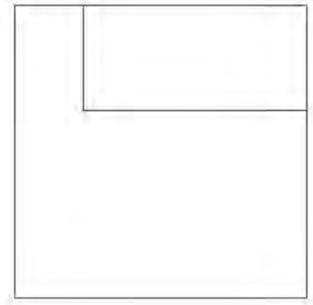
Map date: **1981**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



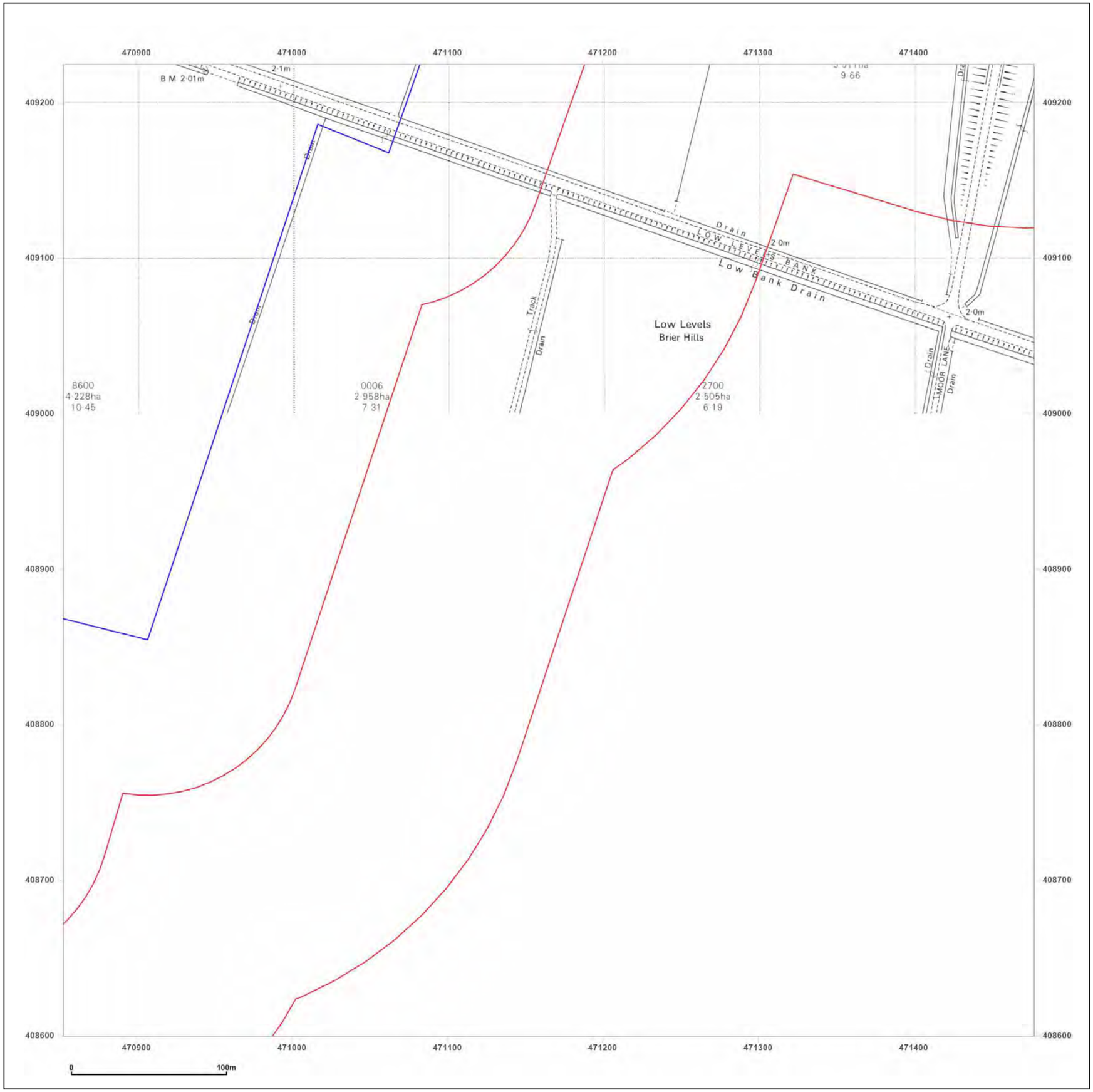
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_1
Grid Ref: 471165, 408912

Map Name: National Grid

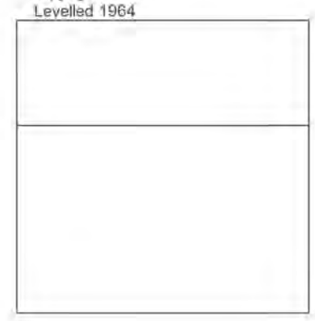
Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1984
Revised 1984
Edition N/A
Copyright 1985
Levelled 1964



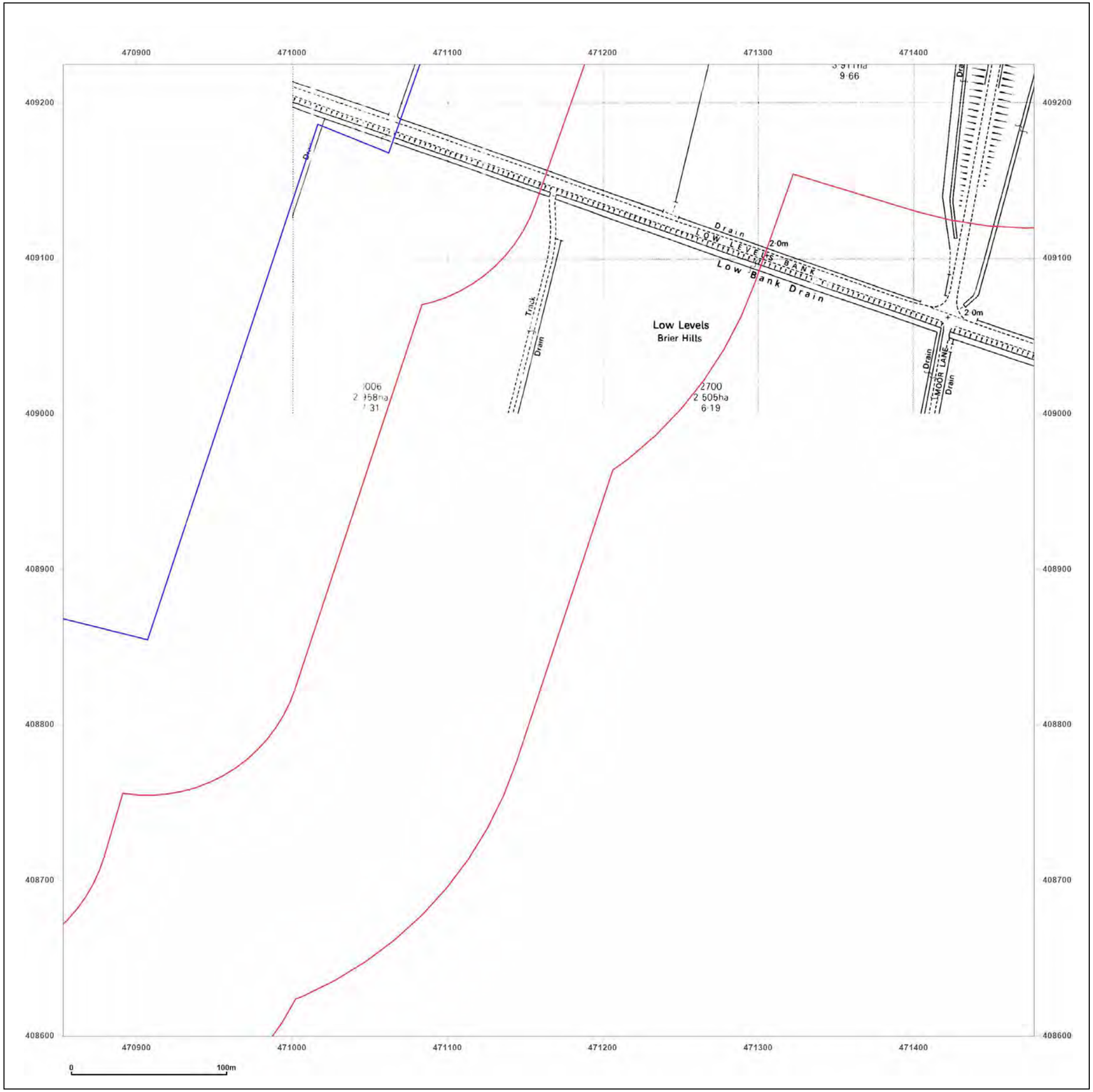
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_1
Grid Ref: 471165, 408912

Map Name: National Grid

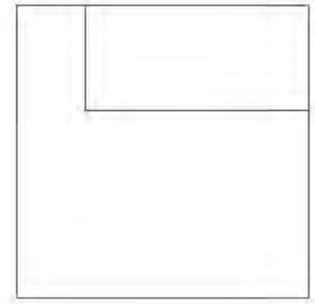
Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



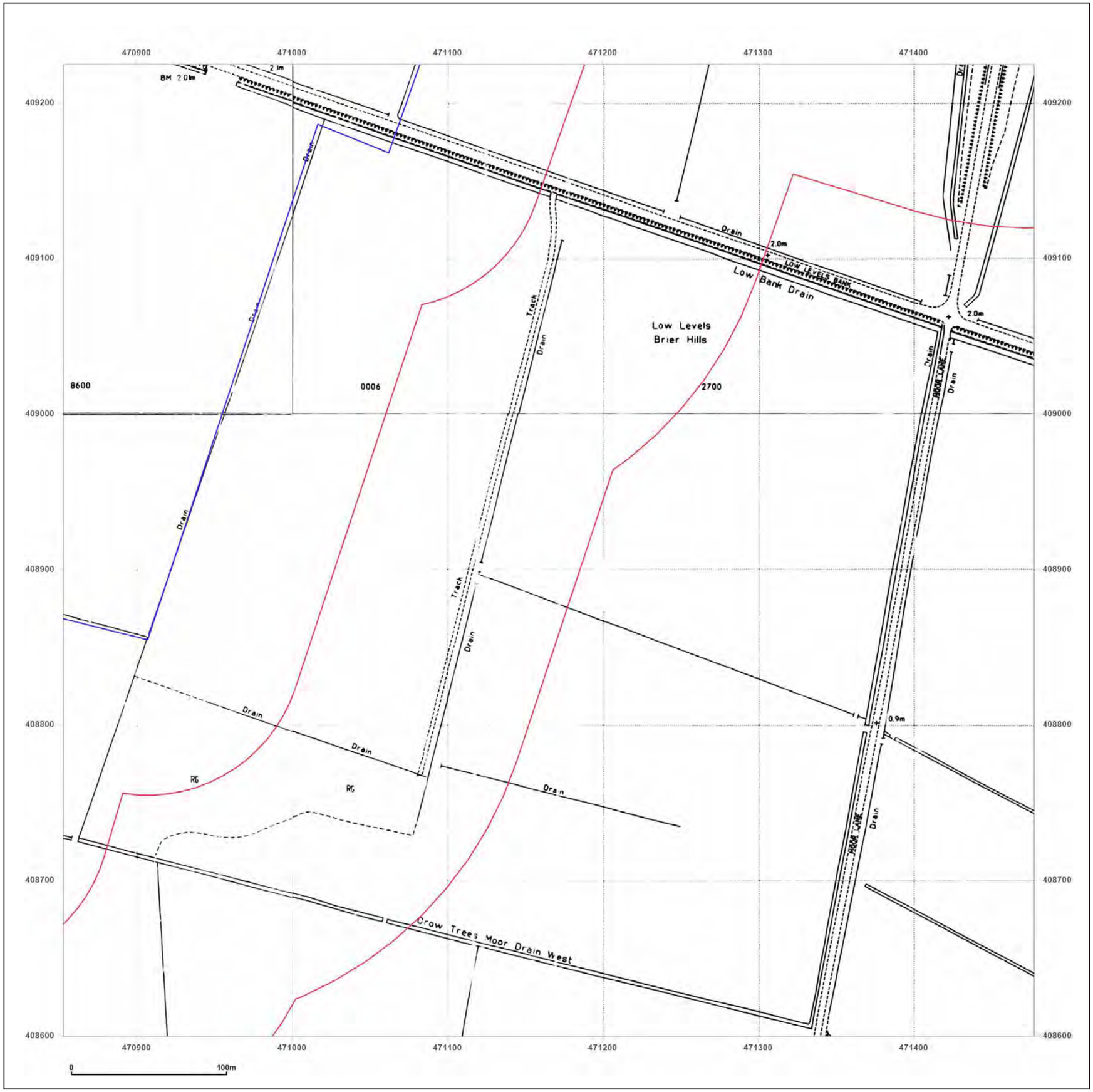
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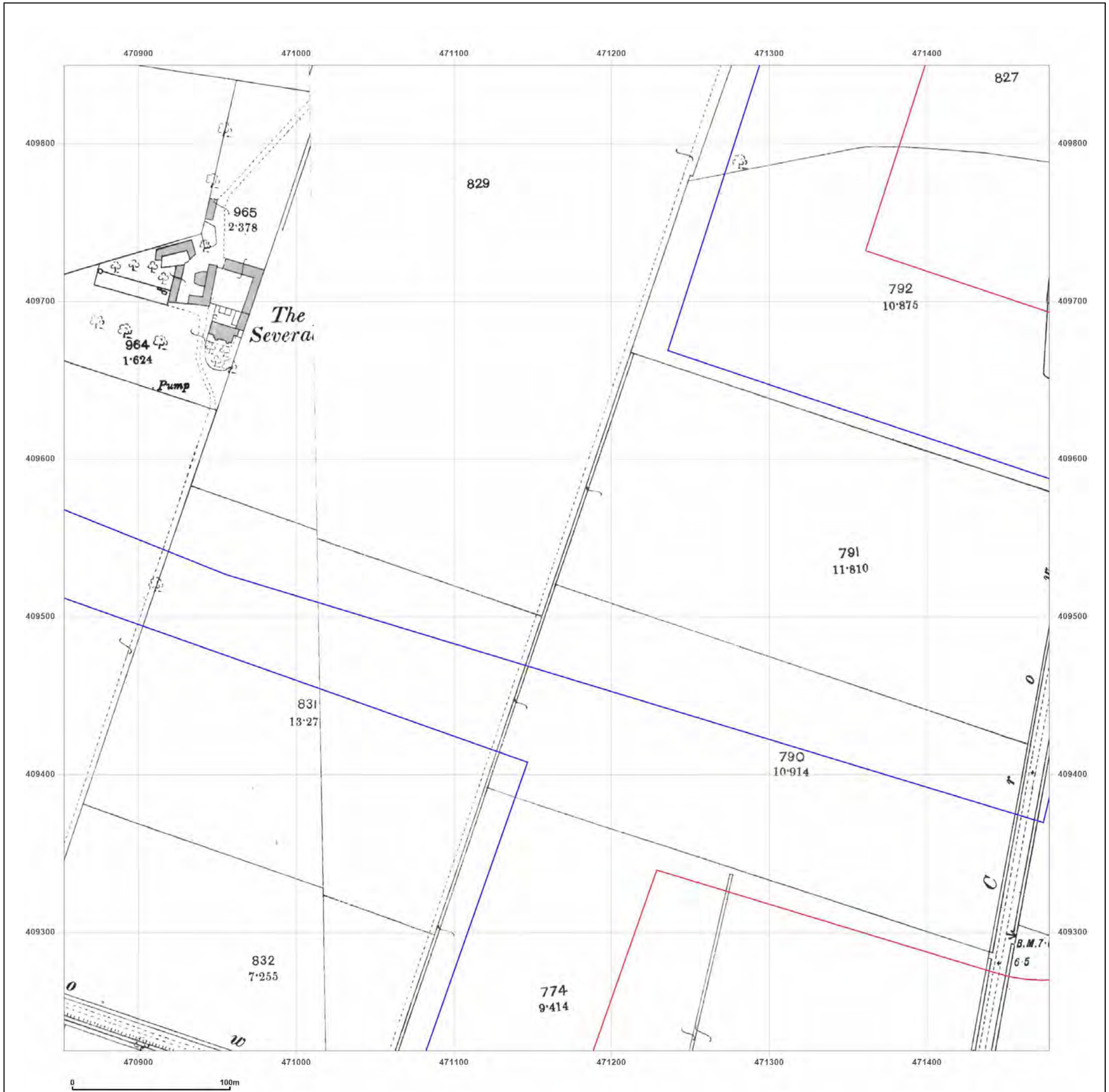
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470900
471000
471100
471200
471300
471400
409200
409100
409000
408900
408800
408700
408600
BM 2.0m
2m
Drain
Low Bank Drain
LOW LEVELS BANK
2.0m
Low Levels
Brier Hills
8600
0006
2700
Track
ROAD LANE
0.9m
RG
Drain
Drain
Drain



Groundsure INSIGHTS

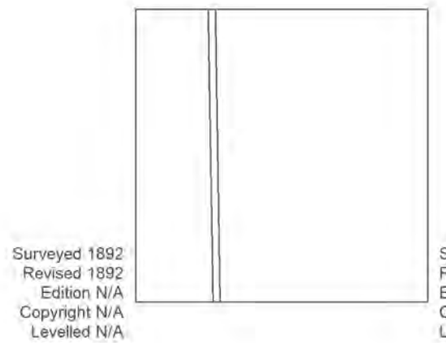
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_2
Grid Ref: 471165, 409537

Map Name: County Series
Map date: **1892-1893**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



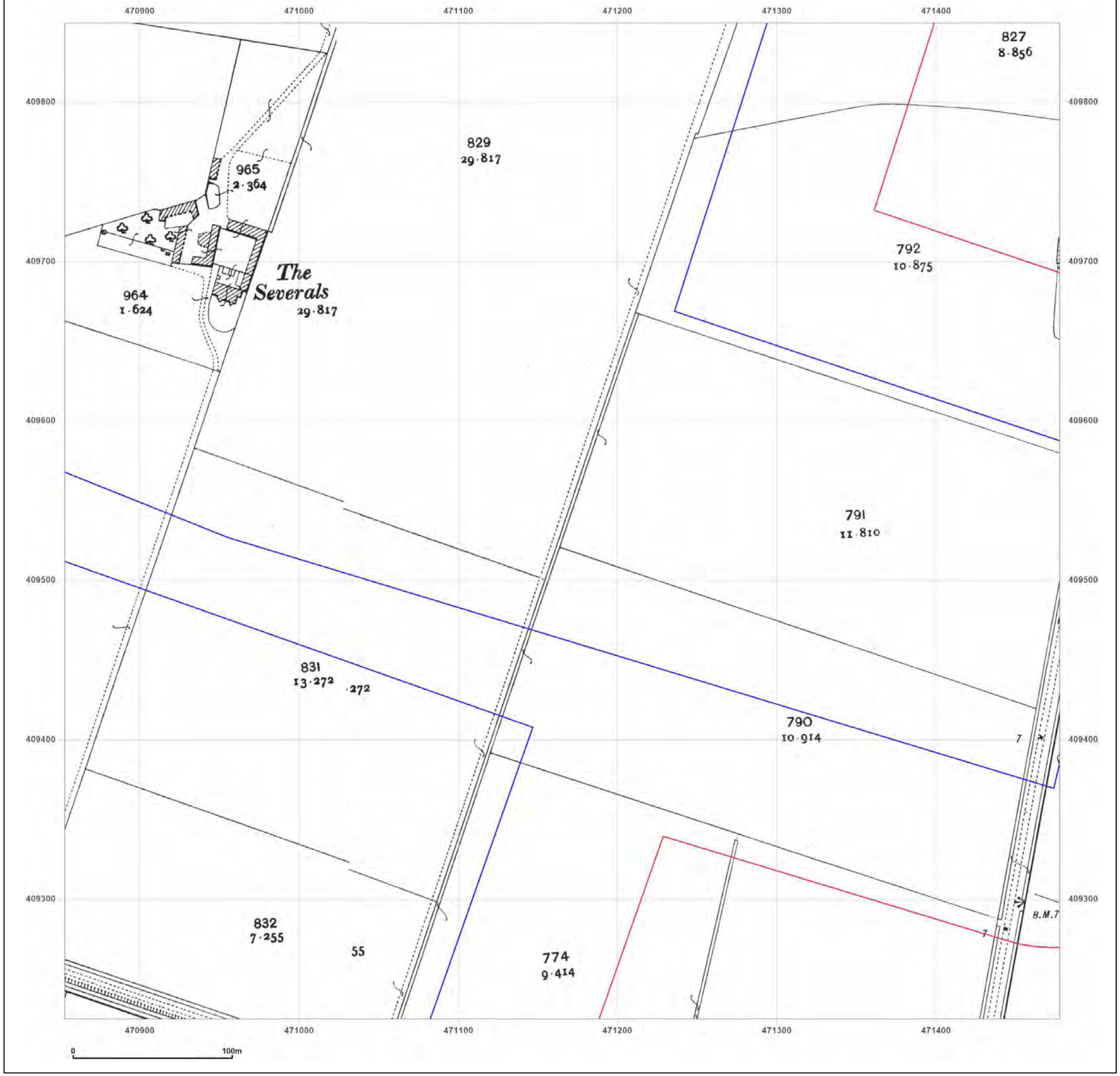
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_2
Grid Ref: 471165, 409537

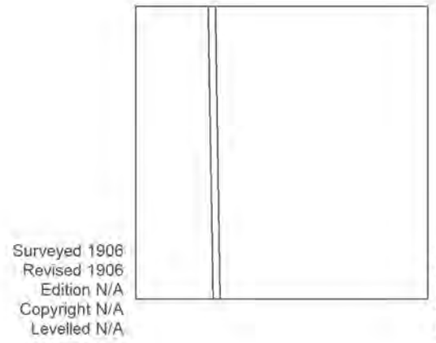
Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
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S



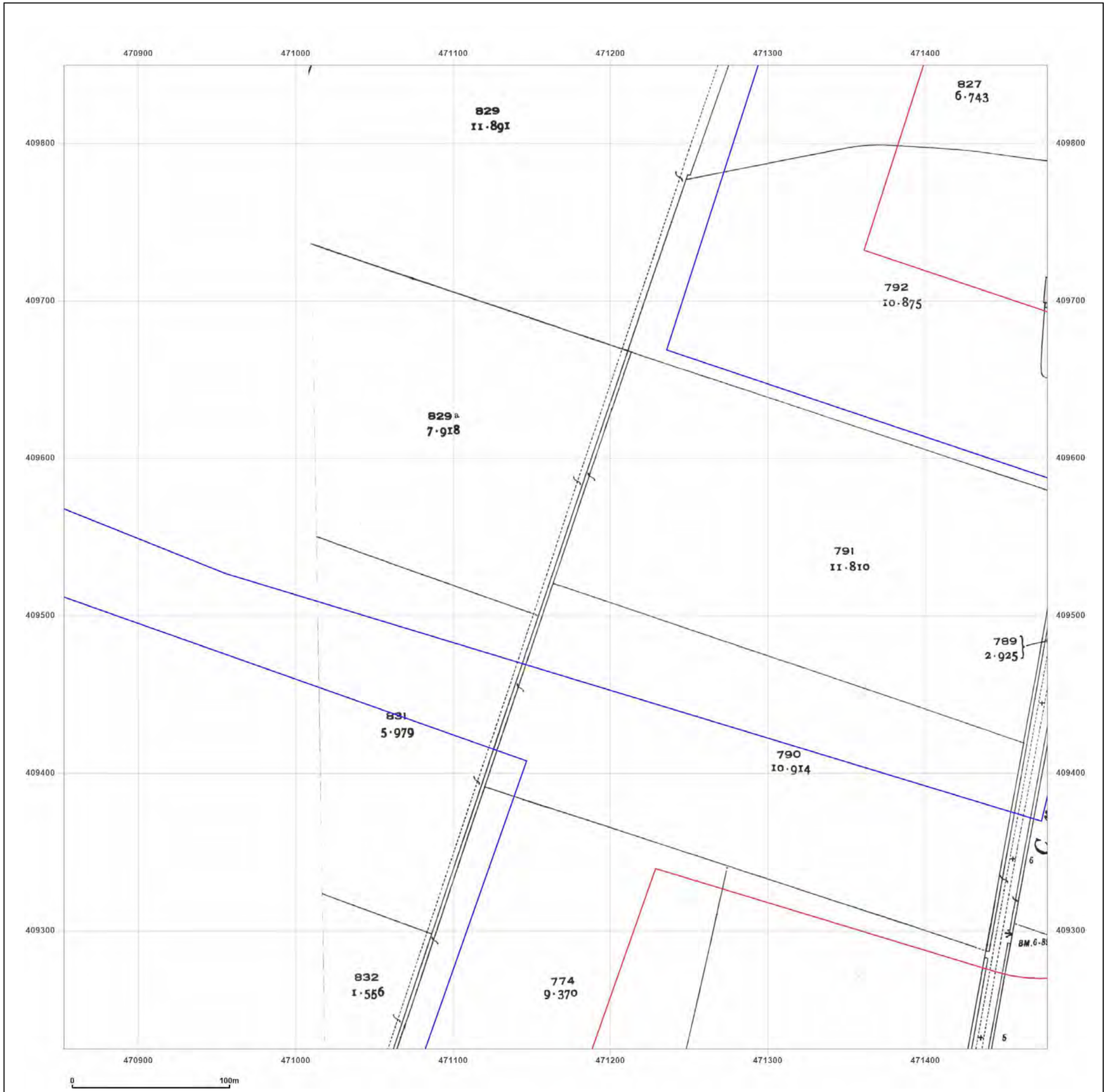
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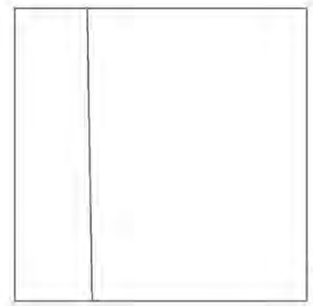
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_2
Grid Ref: 471165, 409537

Map Name: County Series
Map date: **1931**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



Surveyed 1931
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

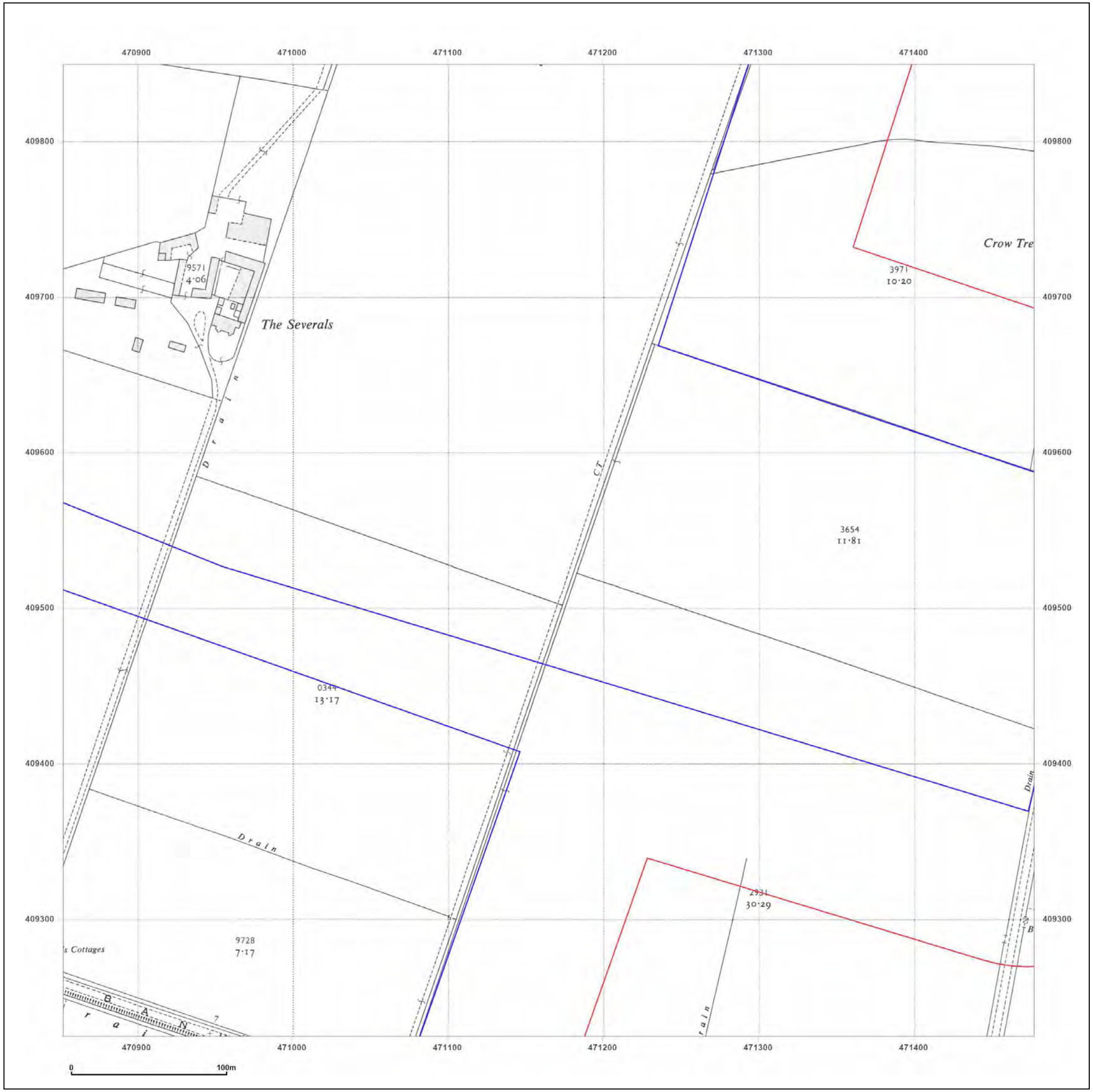
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_2
Grid Ref: 471165, 409537

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

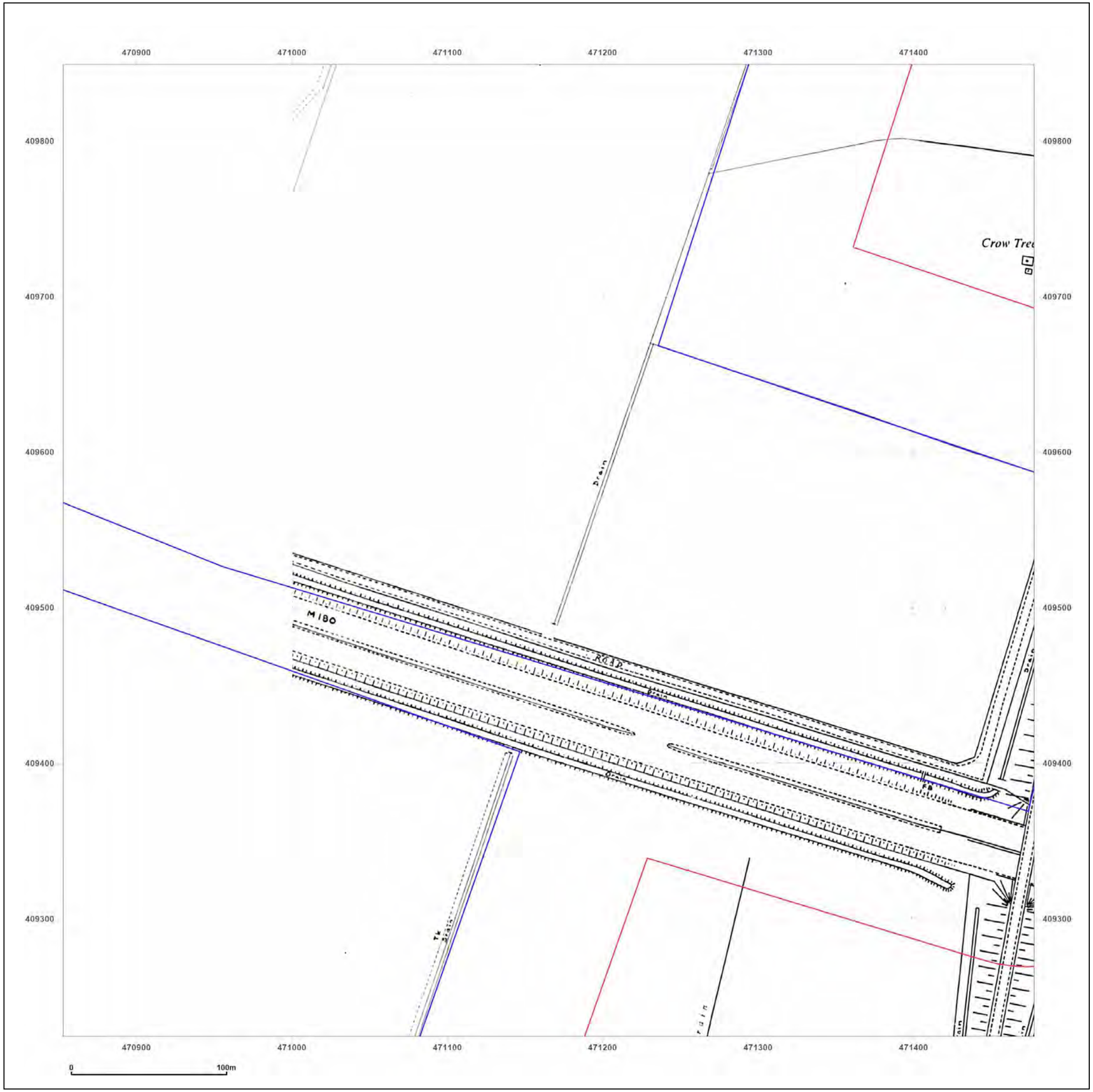
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_2
Grid Ref: 471165, 409537

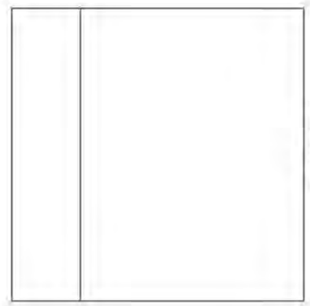
Map Name: National Grid

Map date: **1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1964

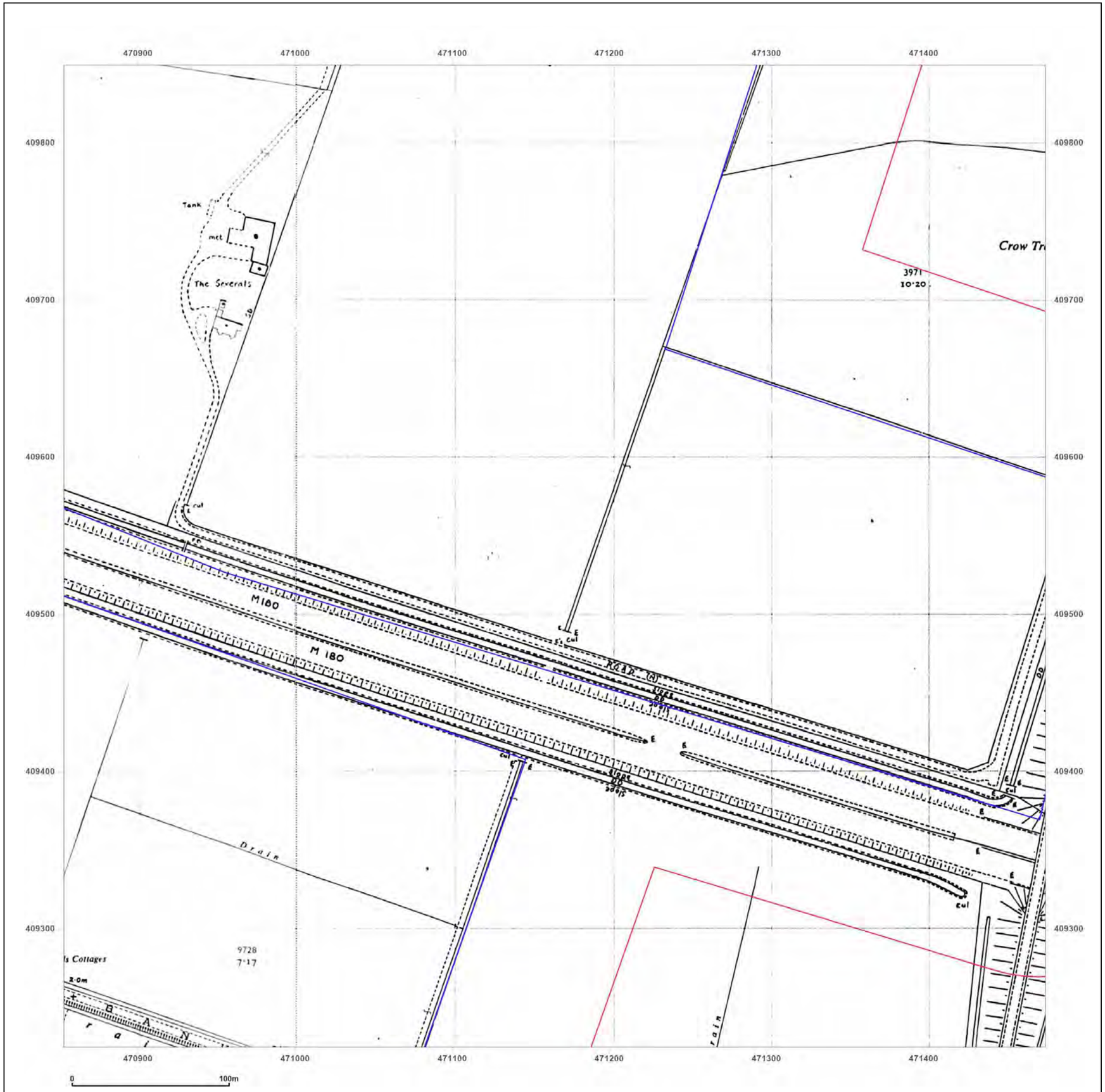
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_2
Grid Ref: 471165, 409537

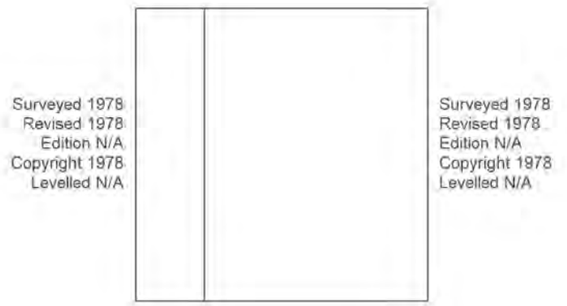
Map Name: National Grid

Map date: **1978**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



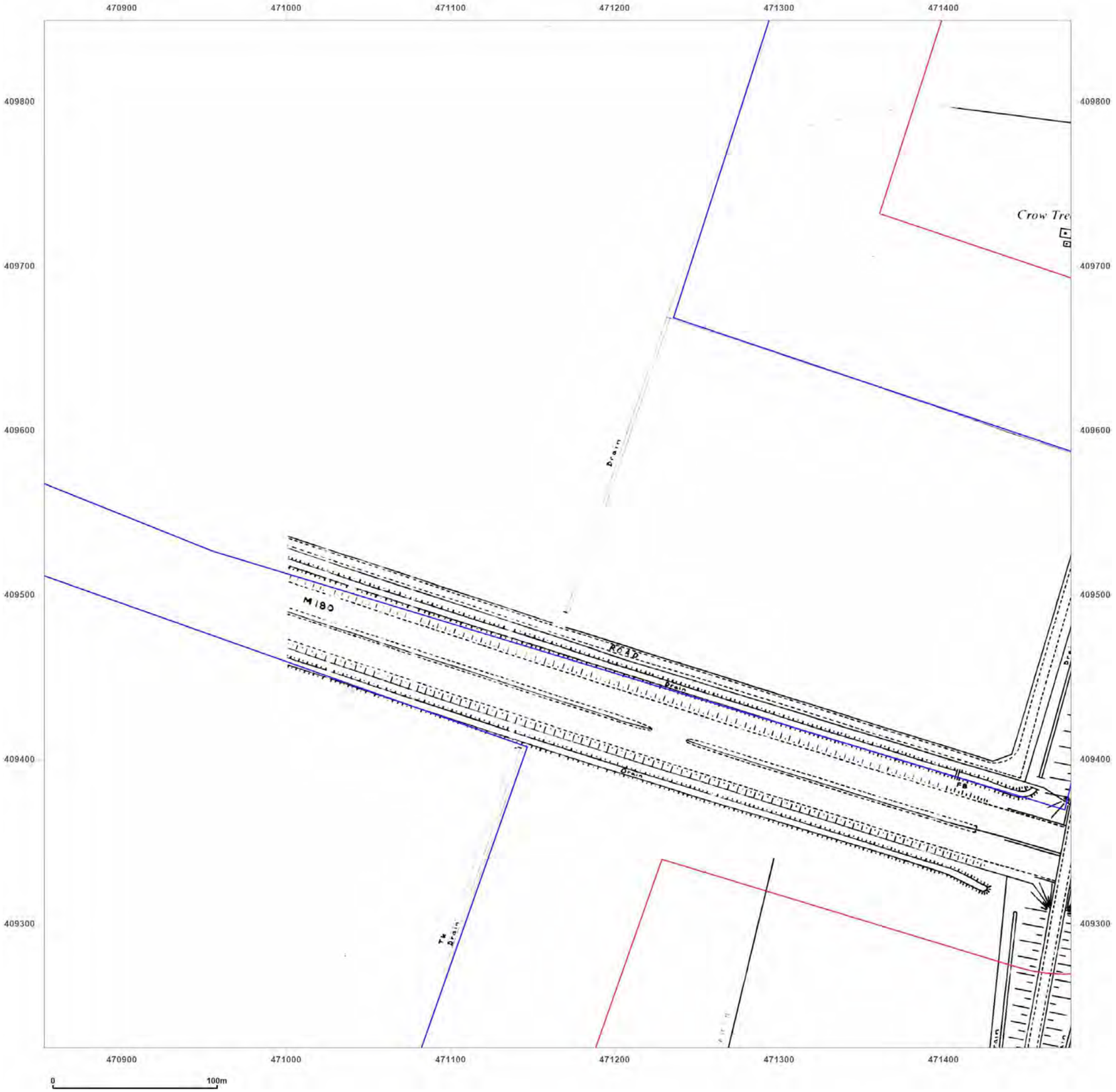
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_2
Grid Ref: 471165, 409537

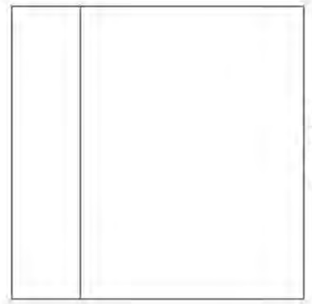
Map Name: National Grid

Map date: **1981**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



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

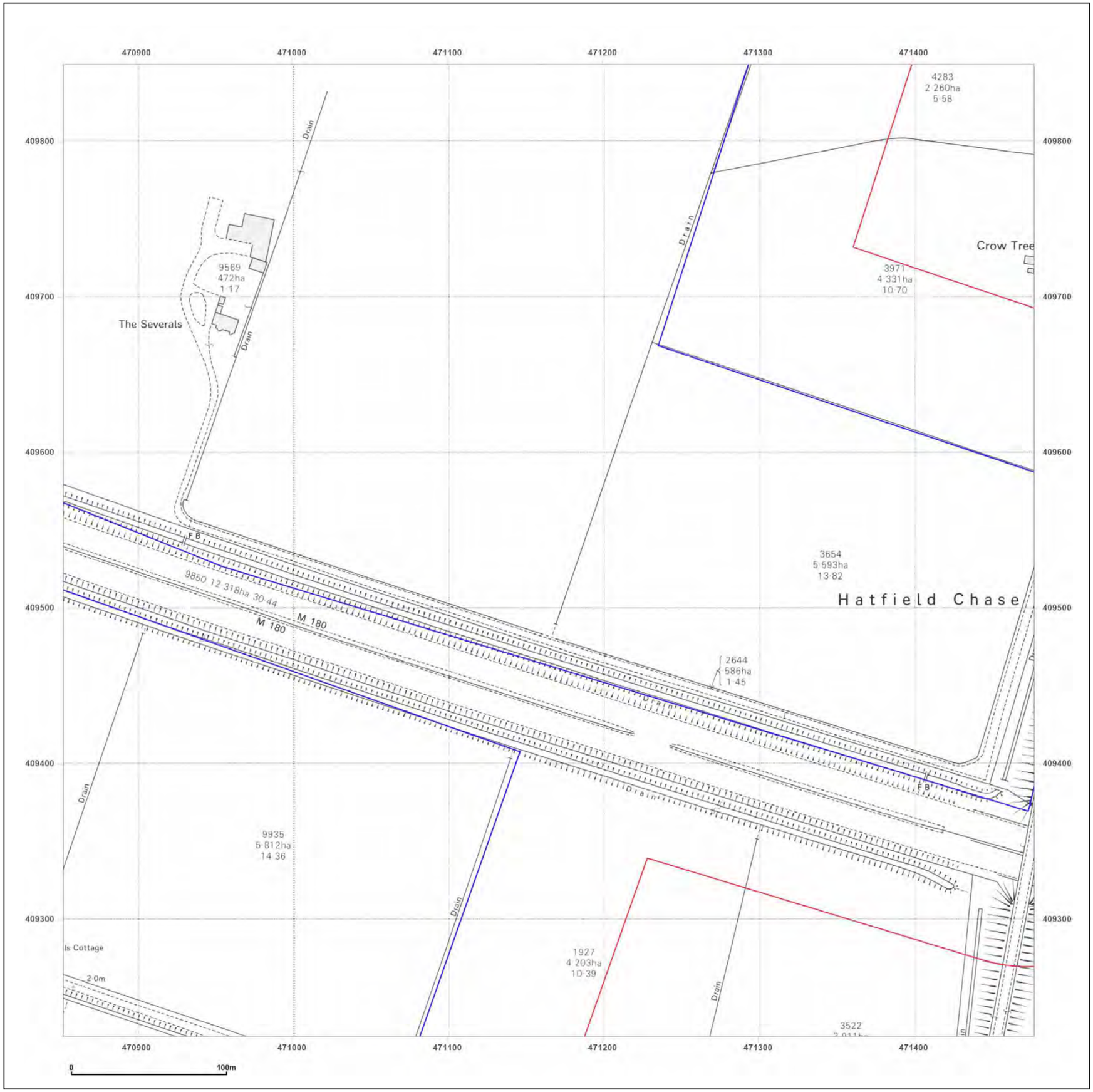
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_2
Grid Ref: 471165, 409537

Map Name: National Grid

Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1984
Revised 1984
Edition N/A
Copyright 1985
Levelled 1964

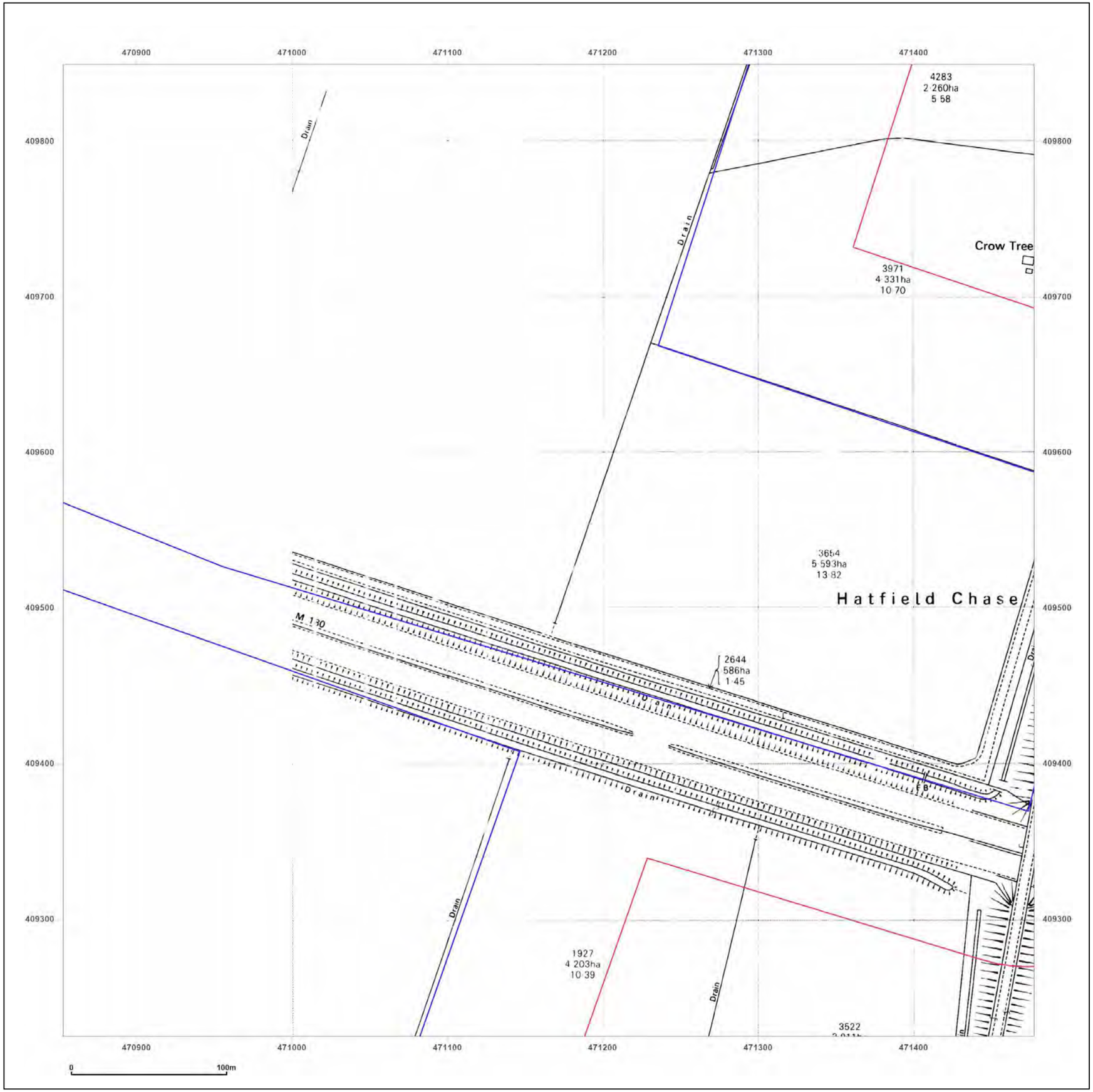
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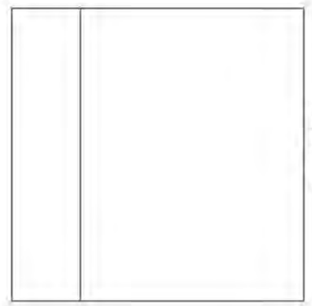
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_2
Grid Ref: 471165, 409537

Map Name: National Grid
Map date: **1985**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



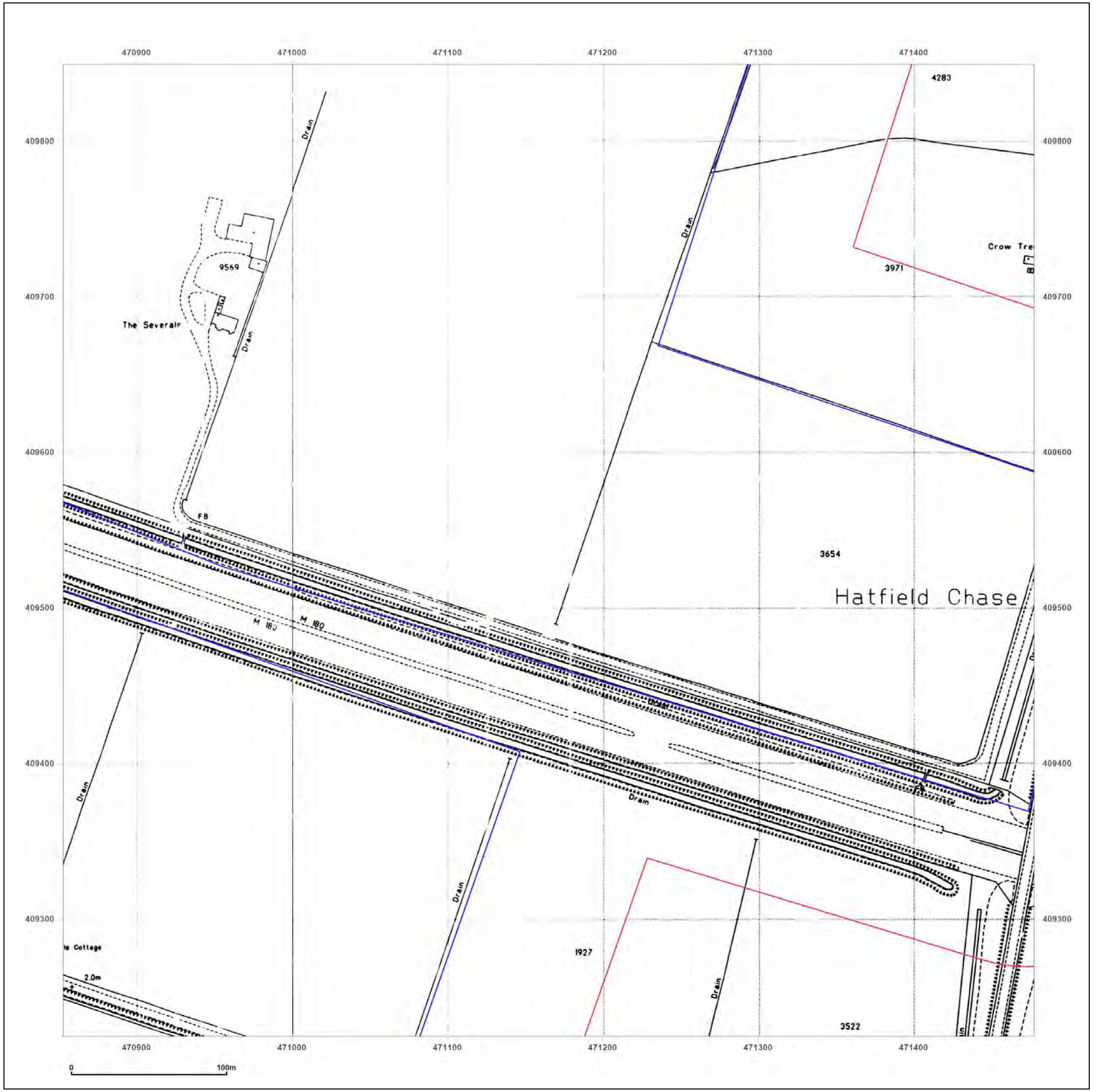
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_2
Grid Ref: 471165, 409537

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

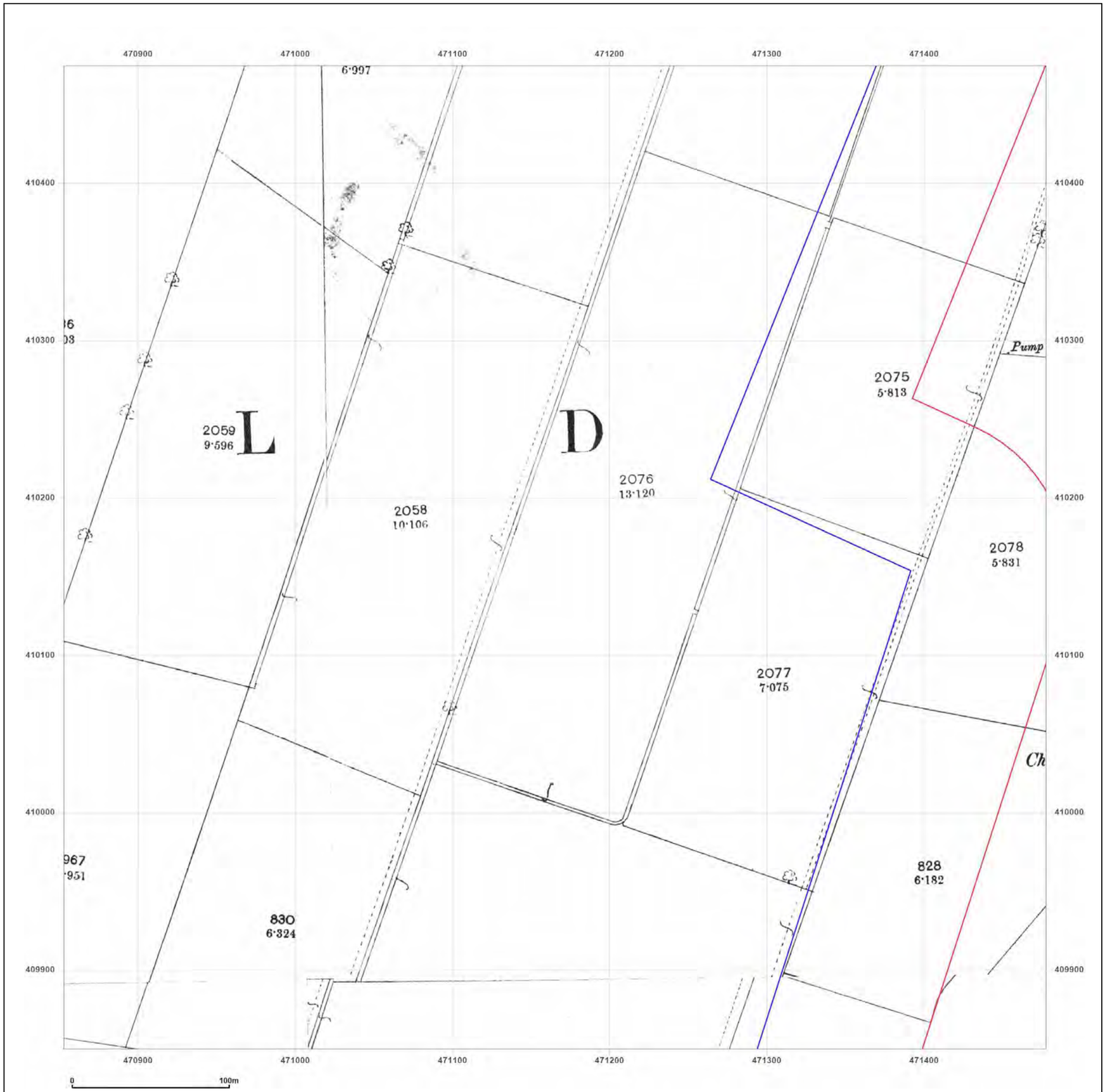
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_3
Grid Ref: 471165, 410162

Map Name: County Series

Map date: **1892-1893**

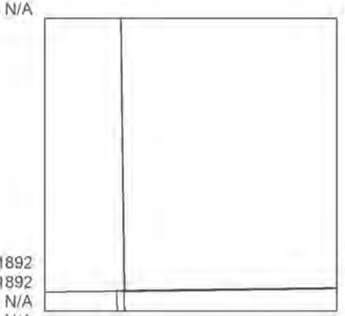
Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

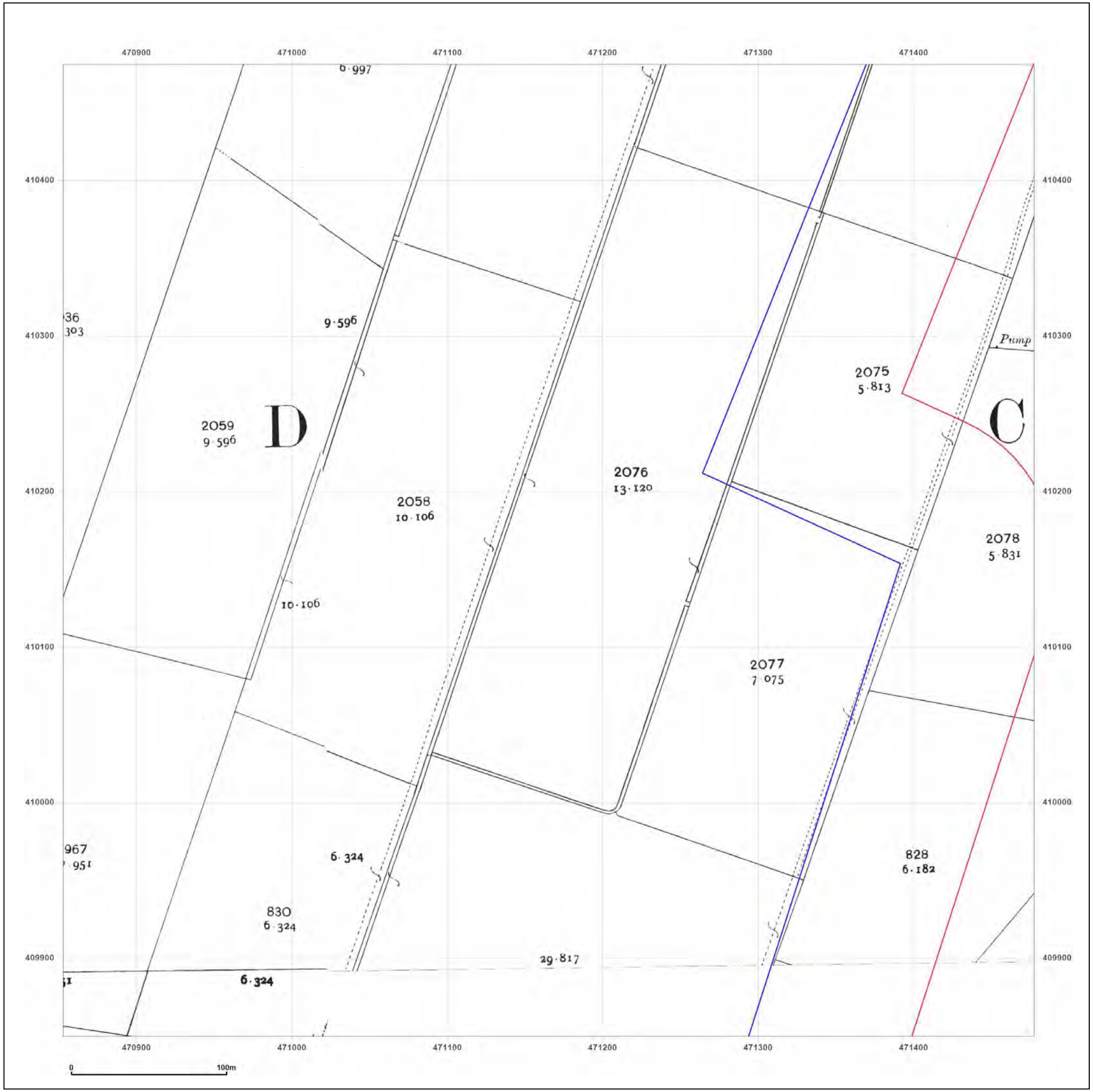
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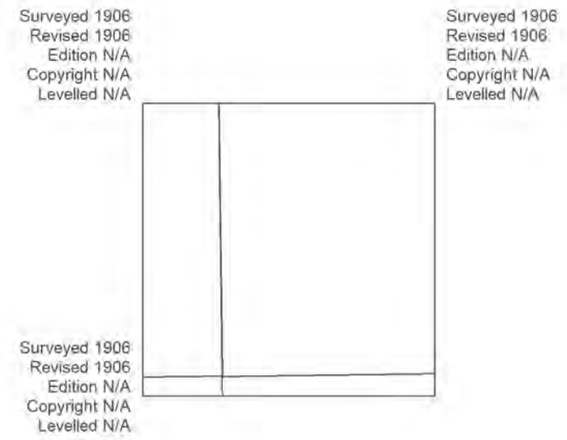
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_3
Grid Ref: 471165, 410162

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



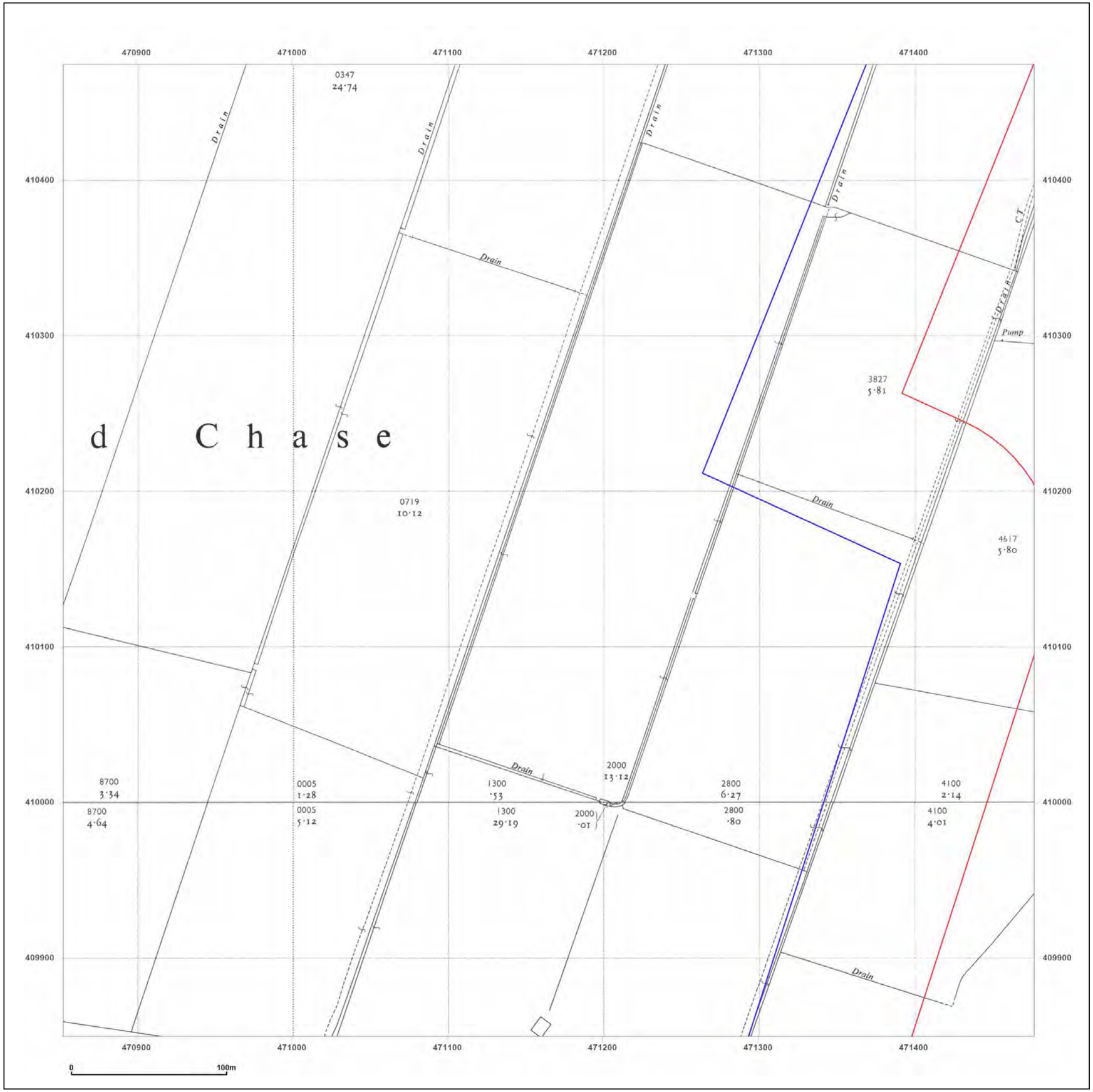
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_3
Grid Ref: 471165, 410162

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

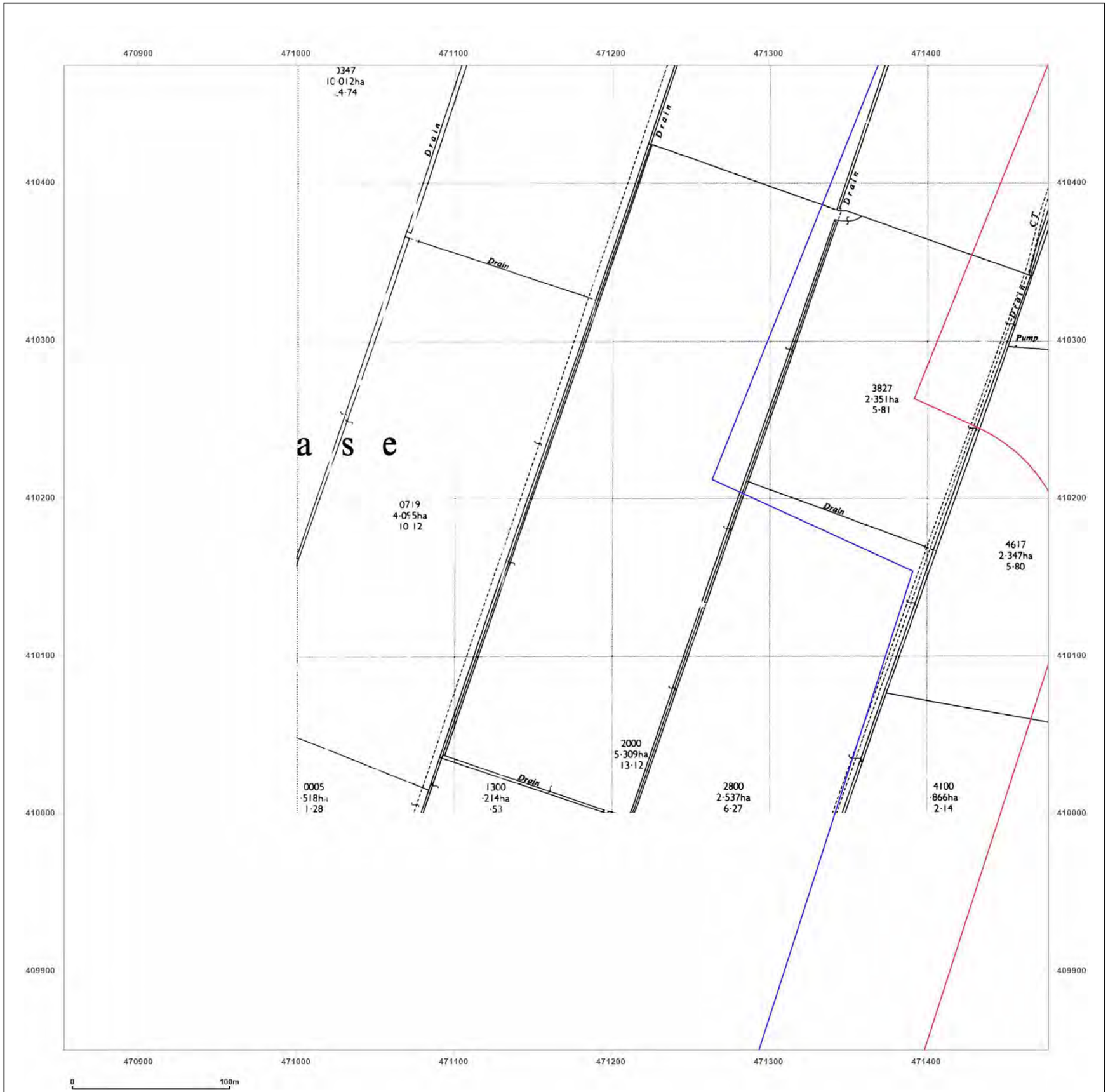
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_3
Grid Ref: 471165, 410162

Map Name: National Grid

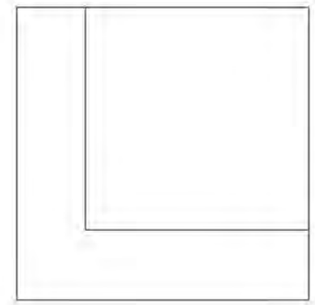
Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



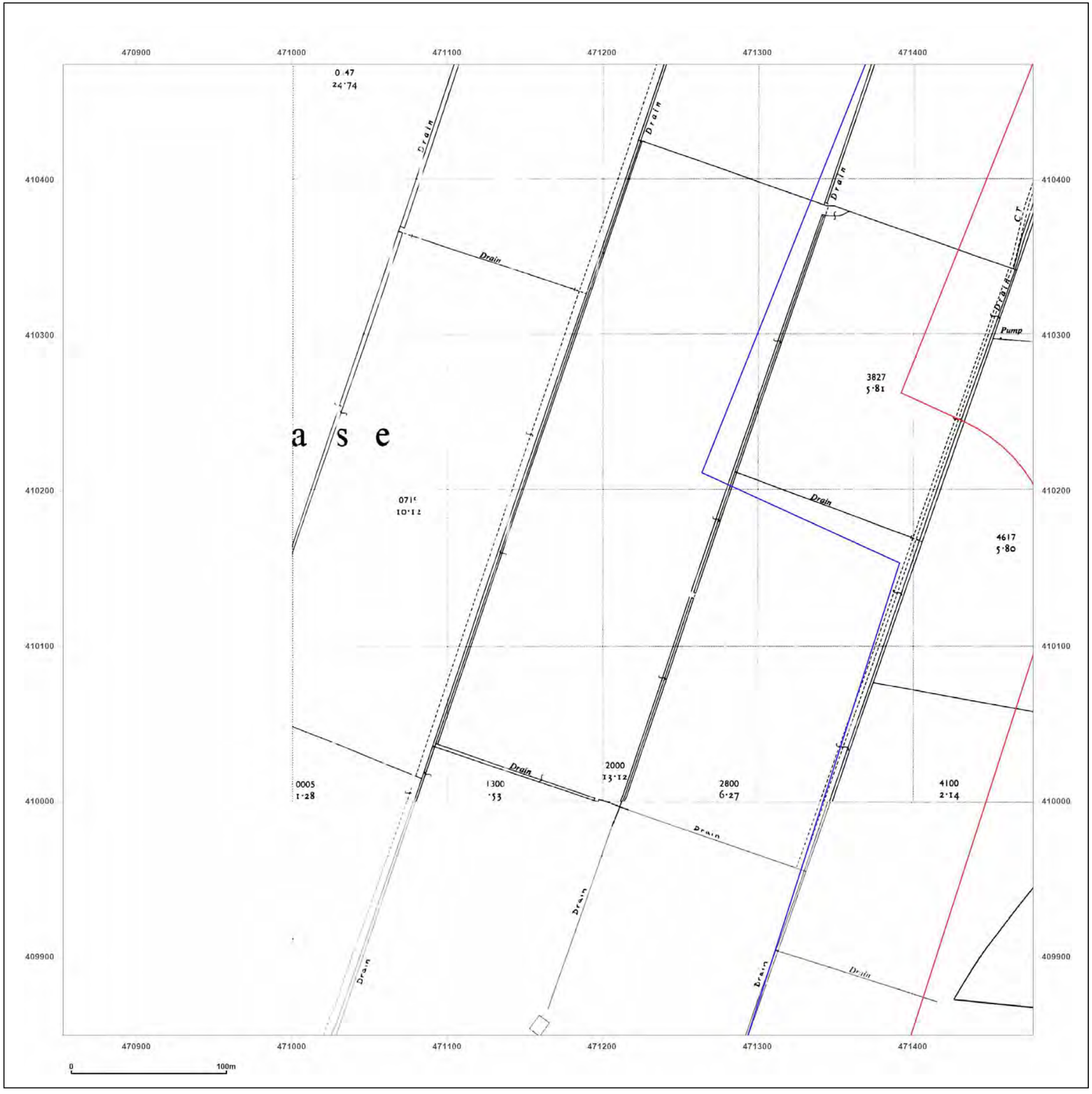
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_3
Grid Ref: 471165, 410162

Map Name: National Grid

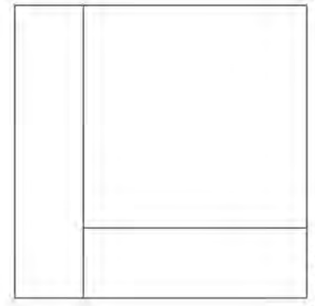
Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1964

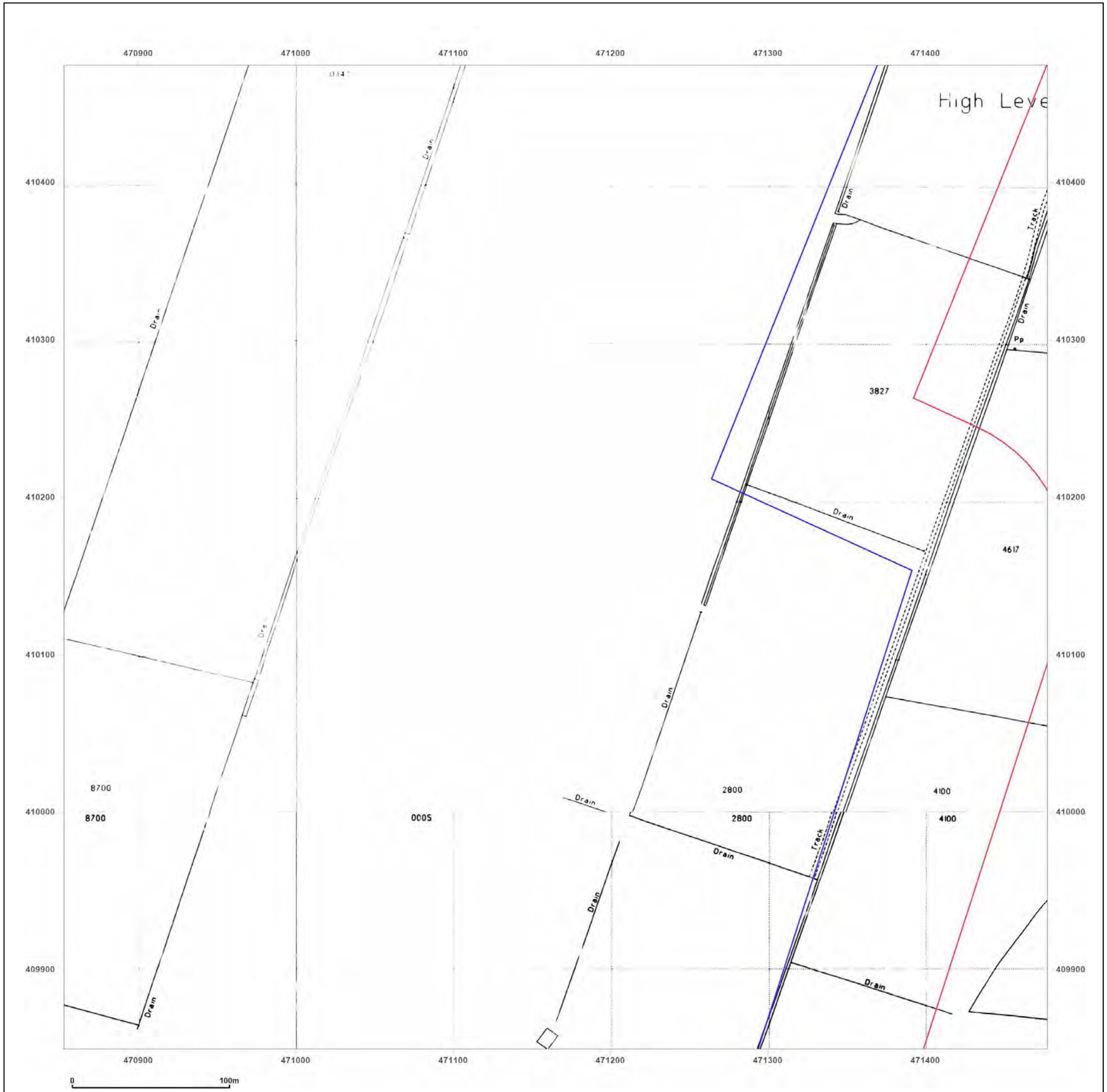
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Thorne

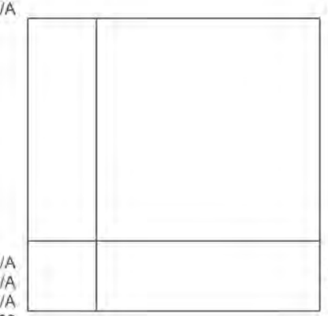
Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_3
Grid Ref: 471165, 410162

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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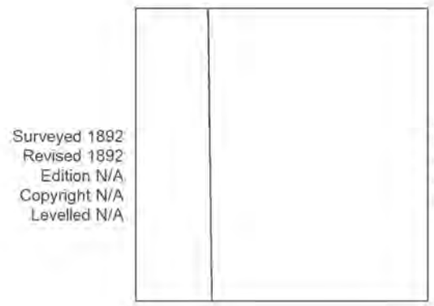
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_4
Grid Ref: 471165, 410787

Map Name: County Series
Map date: **1892-1893**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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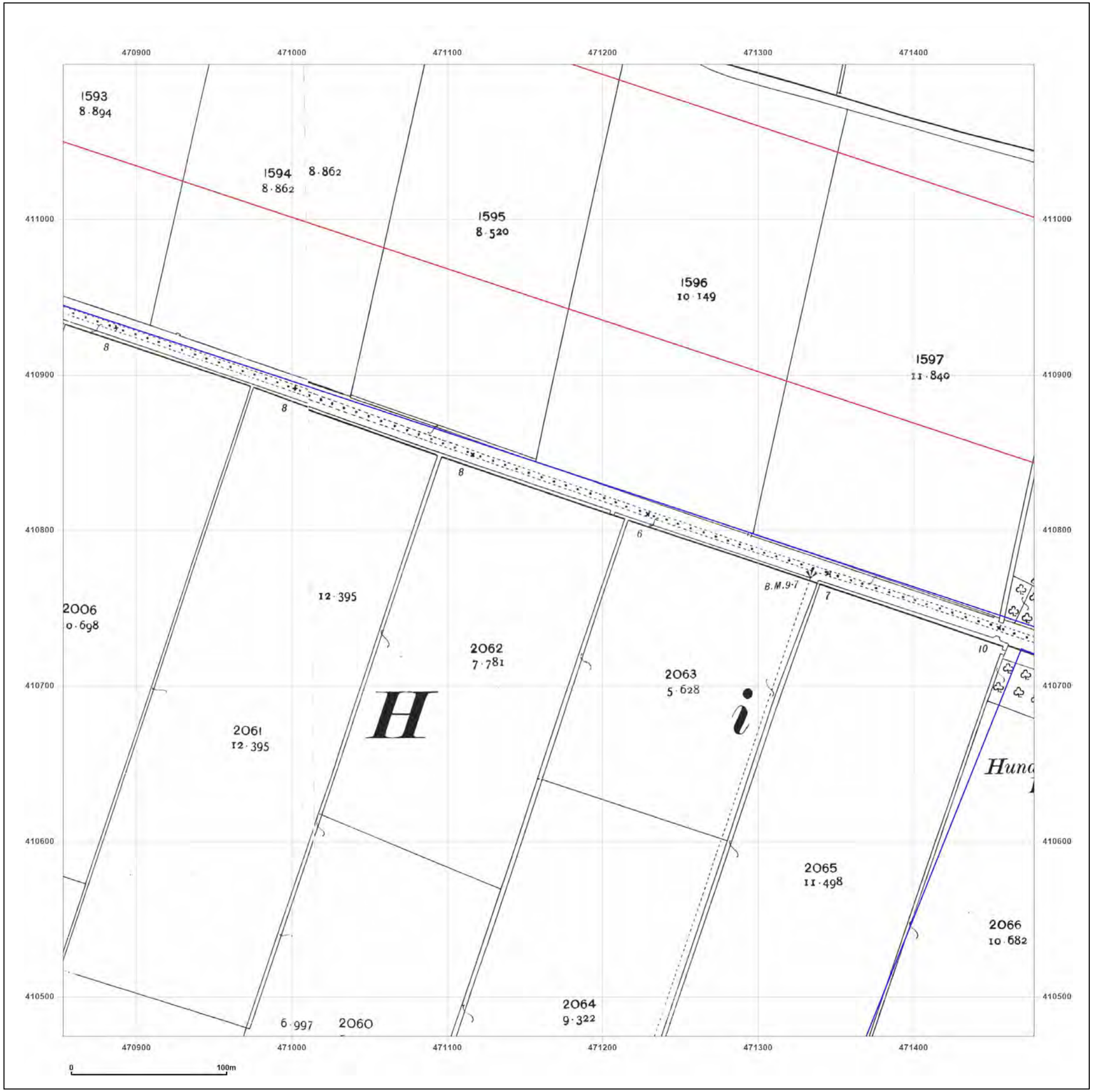
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_4
Grid Ref: 471165, 410787

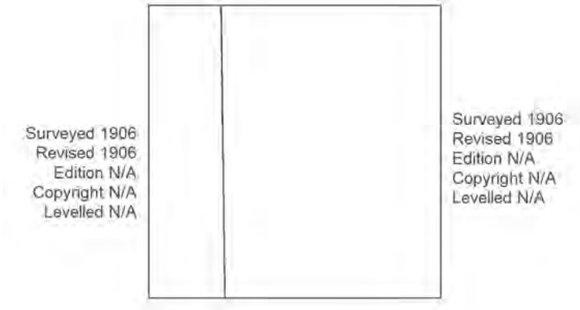
Map Name: County Series

Map date: **1906**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



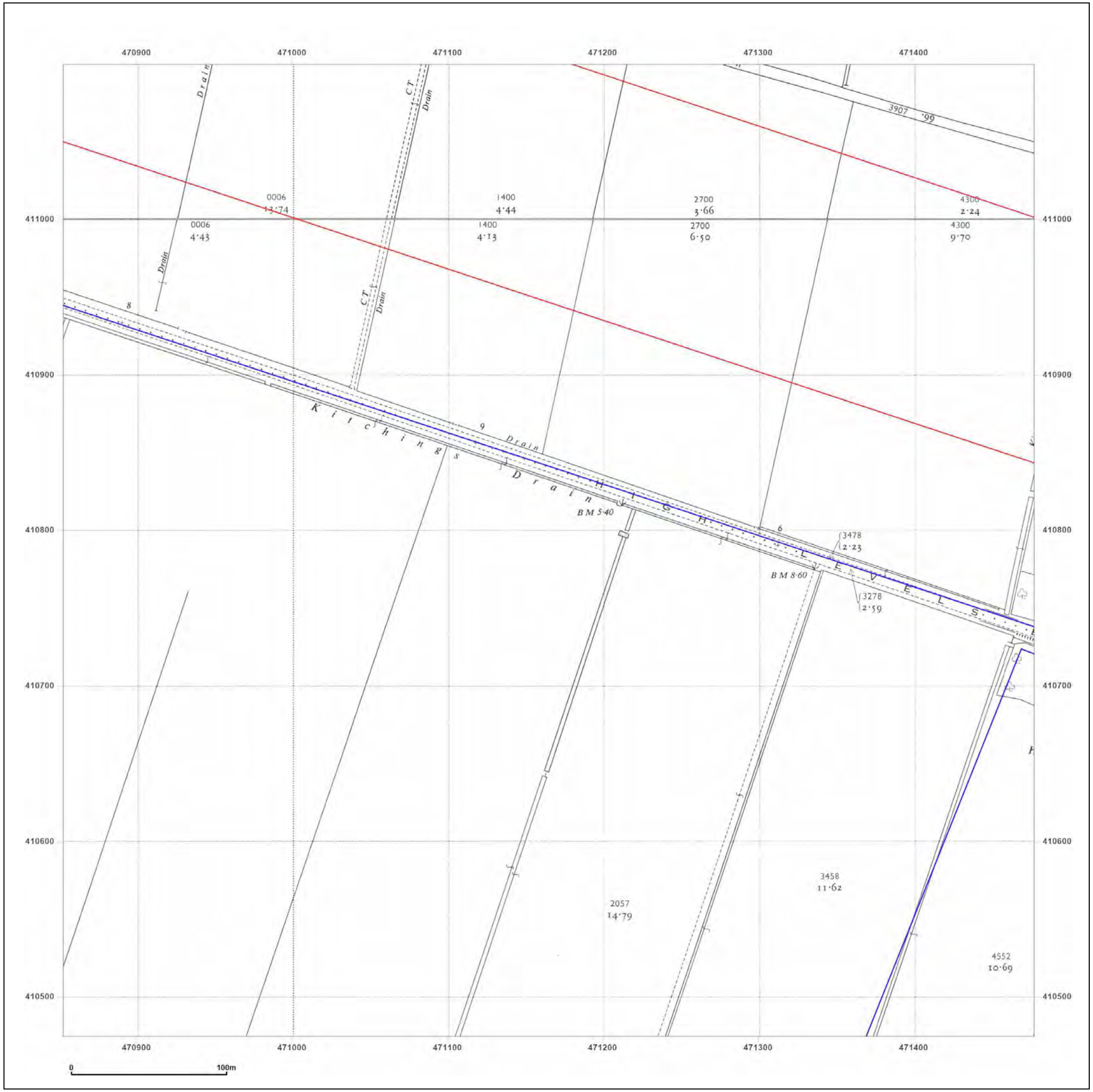
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_4
Grid Ref: 471165, 410787

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

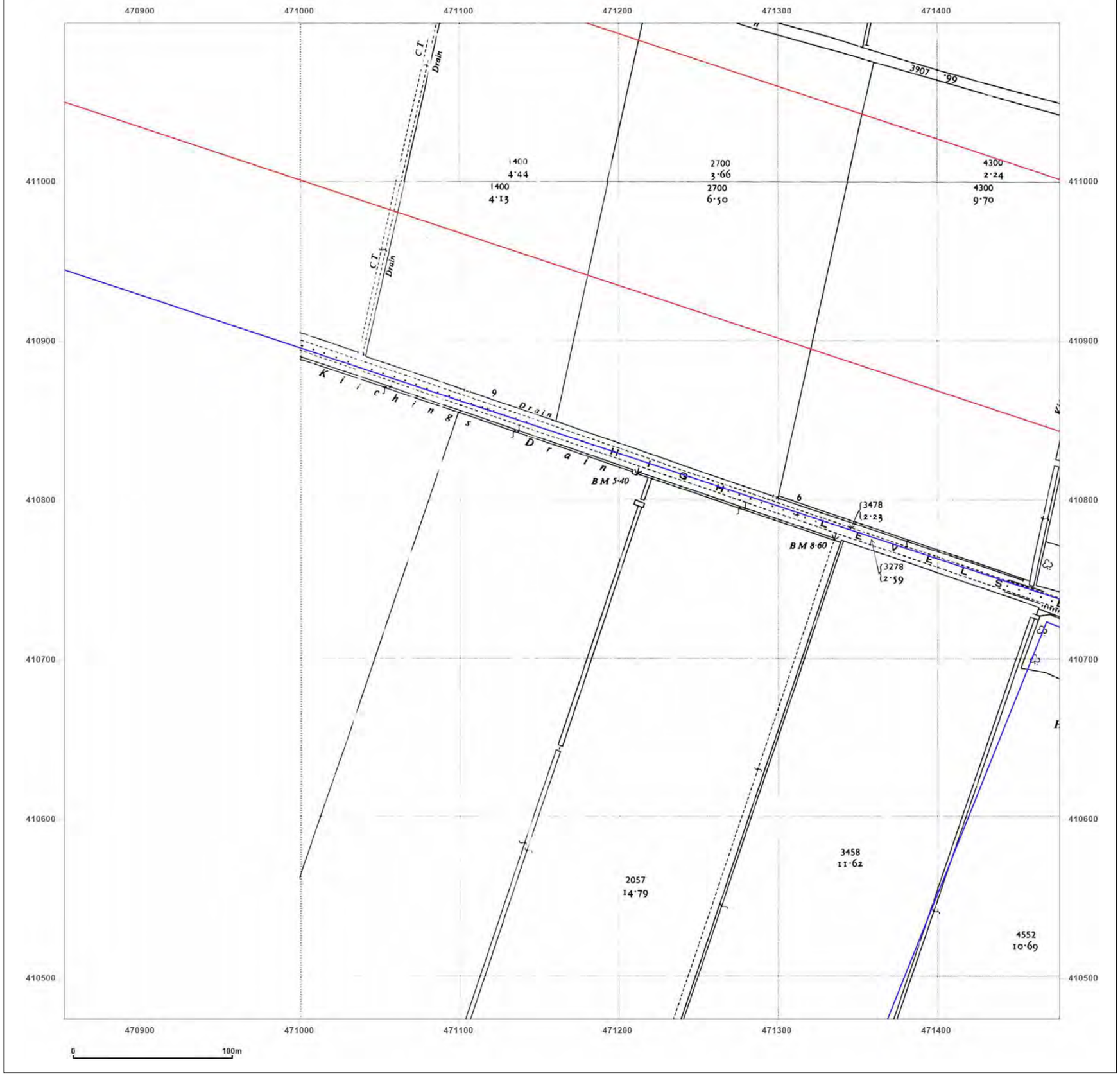
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_4
Grid Ref: 471165, 410787

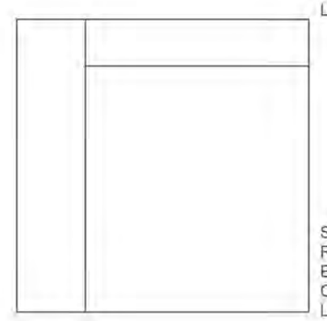
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



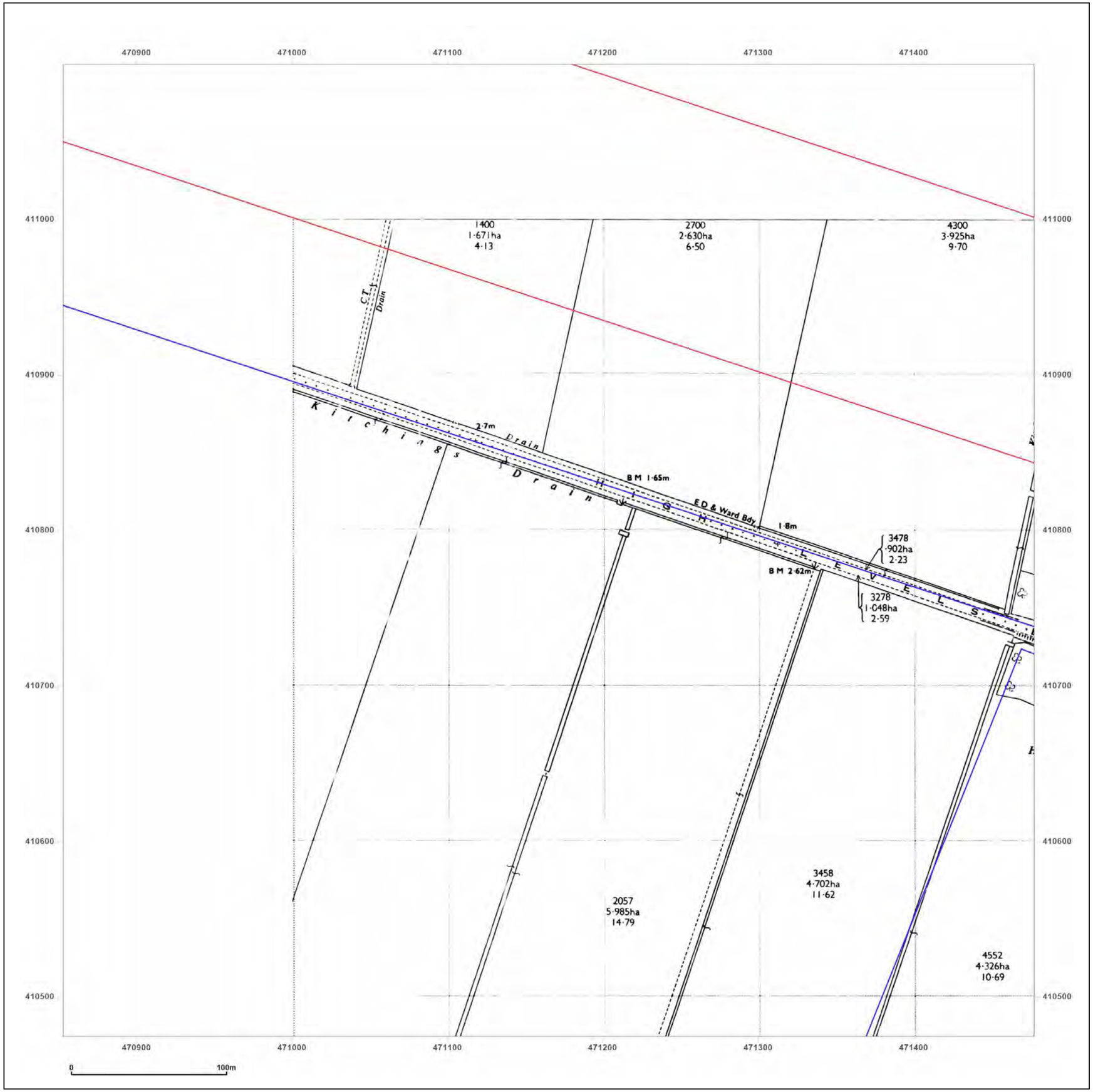
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_4
Grid Ref: 471165, 410787

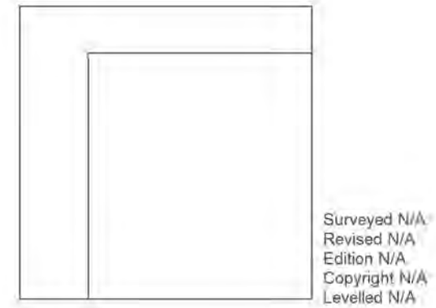
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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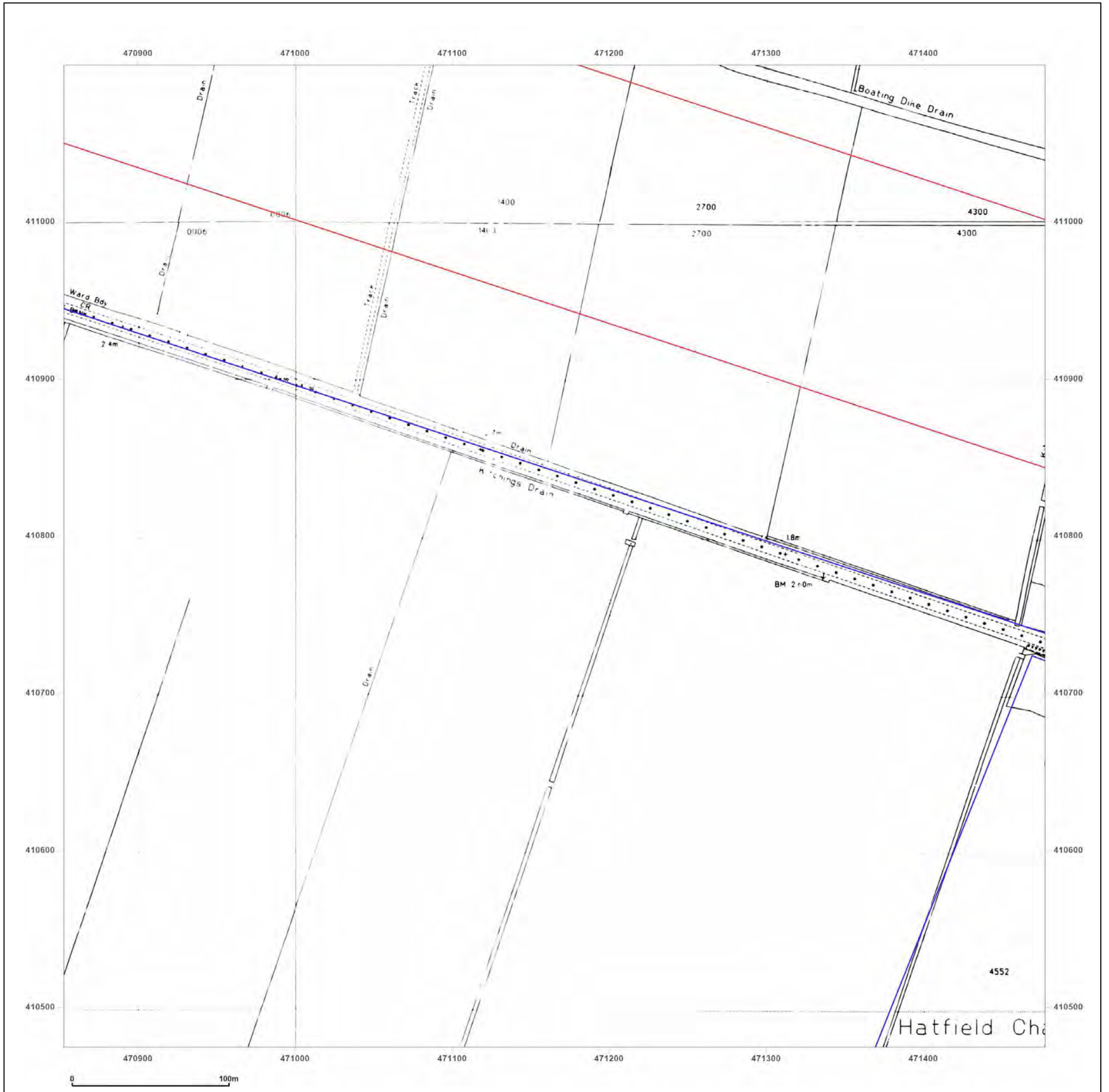
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_4
Grid Ref: 471165, 410787

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

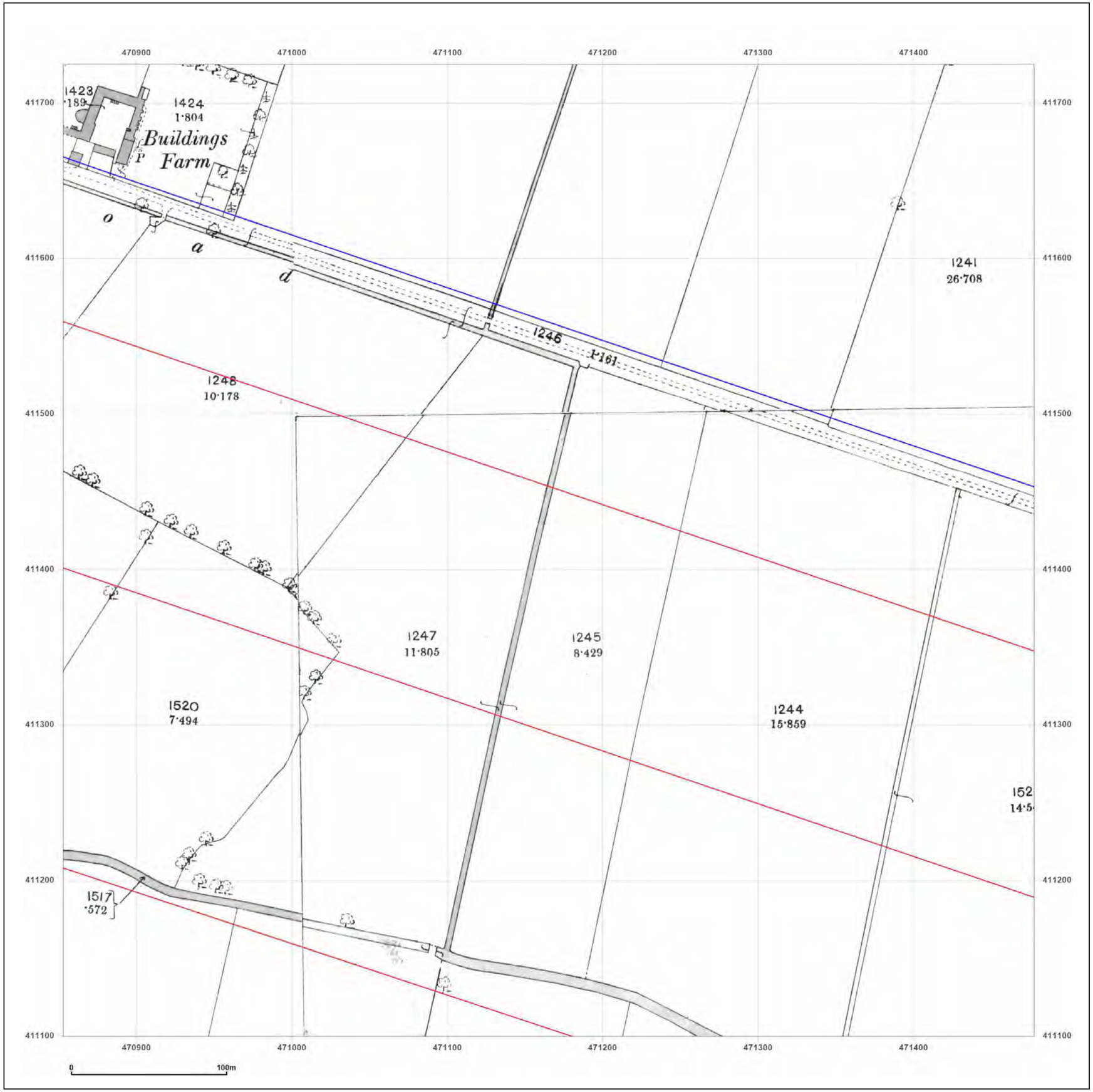
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_5
Grid Ref: 471165, 411412

Map Name: County Series

Map date: **1892-1893**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

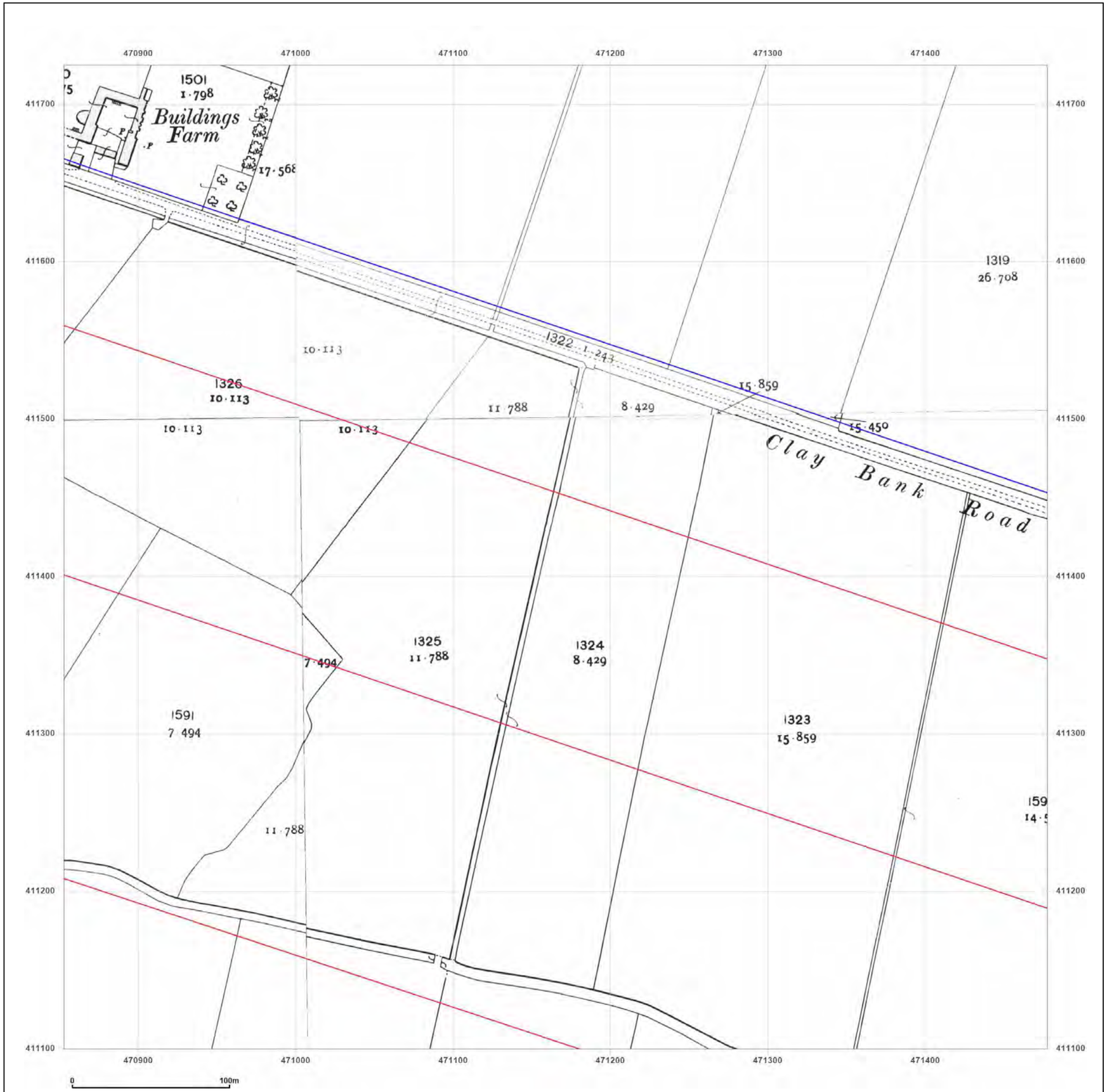
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Groundsure INSIGHTS

Site Details:

Thorne

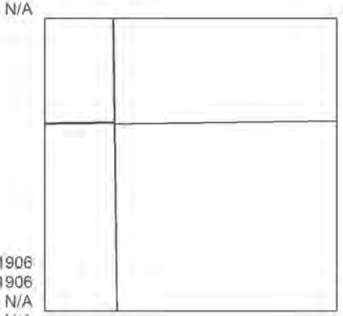
Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_5
Grid Ref: 471165, 411412

Map Name: County Series
Map date: **1906-1907**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

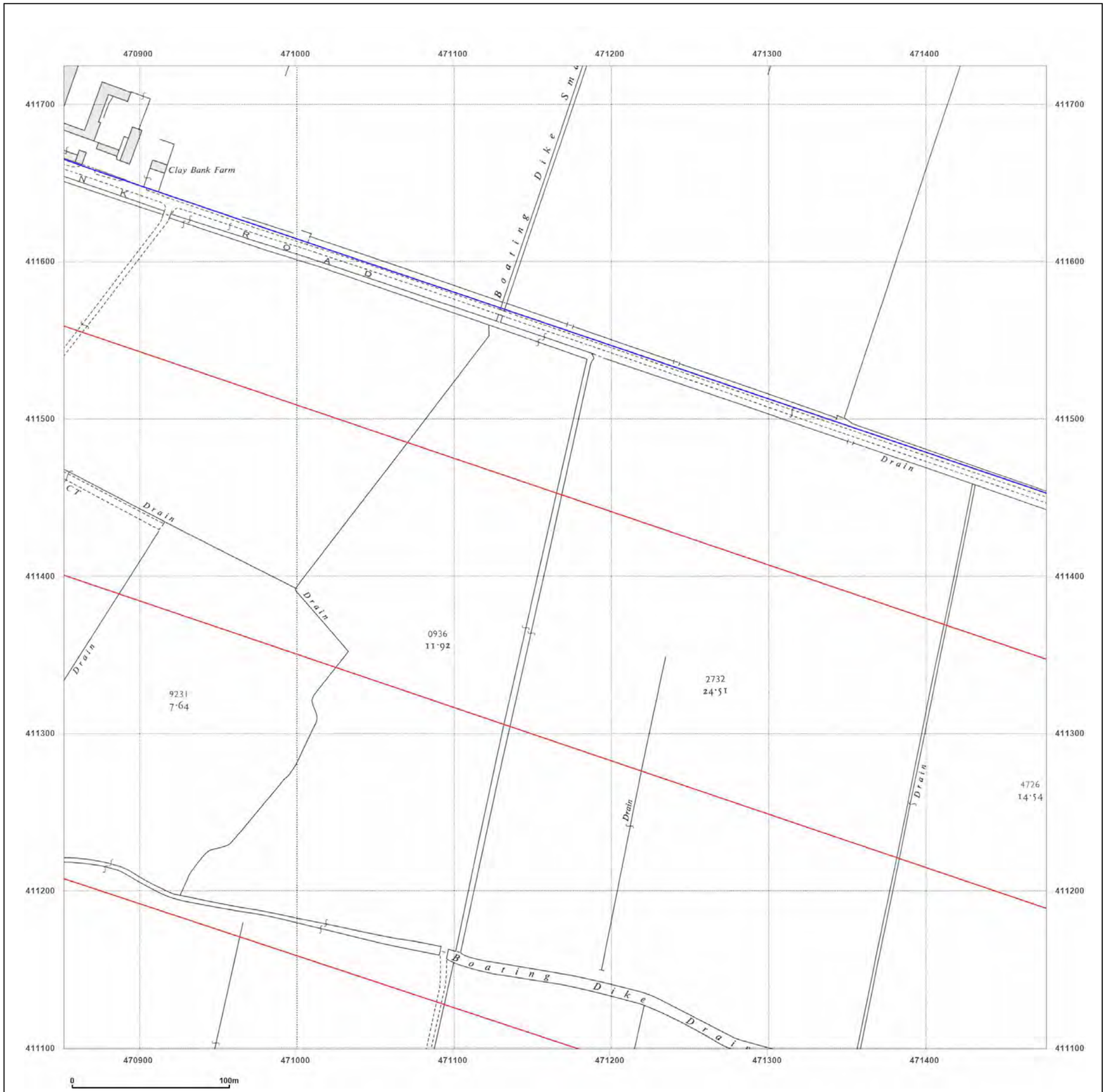
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_5
Grid Ref: 471165, 411412

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

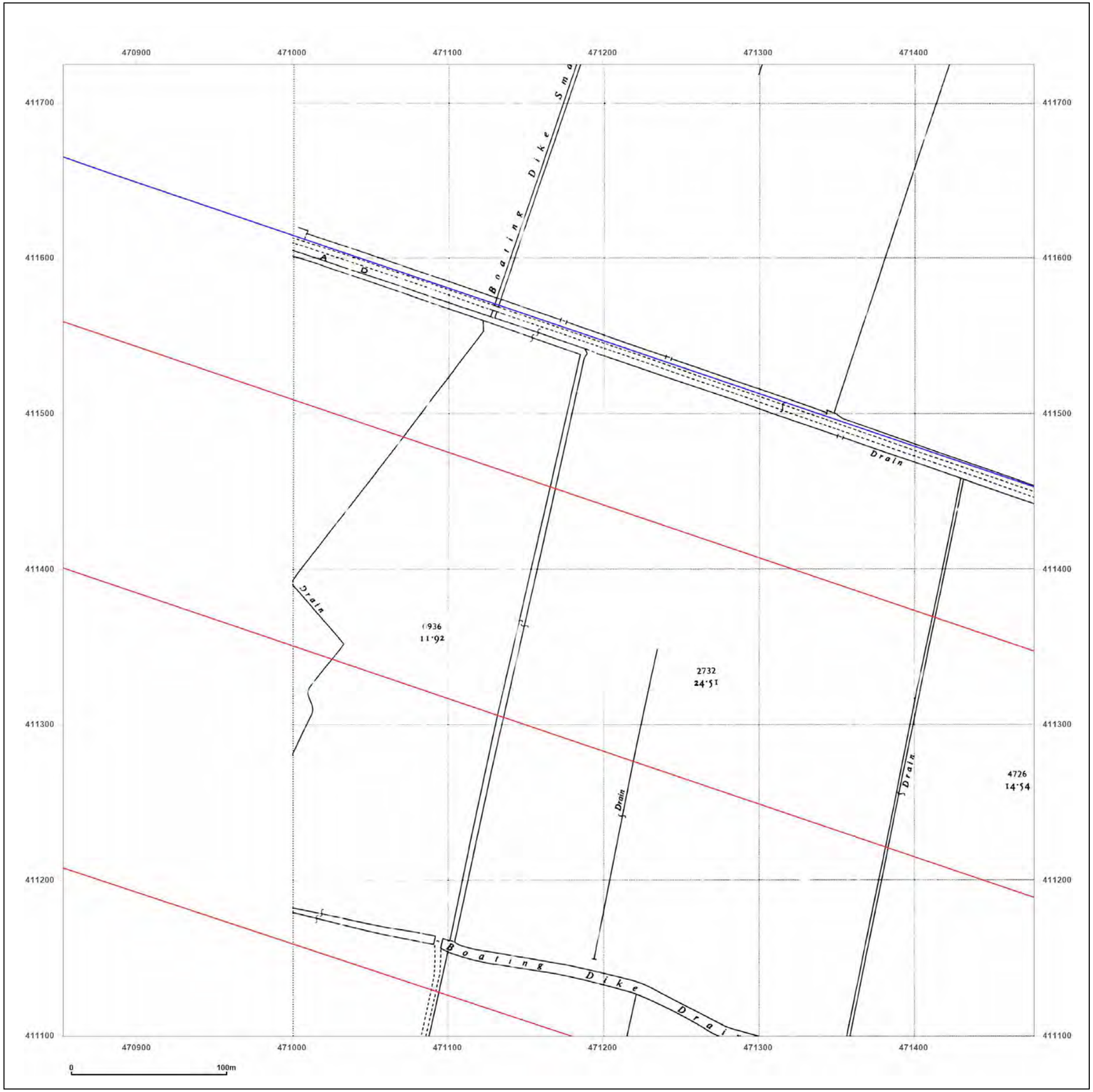
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_5
Grid Ref: 471165, 411412

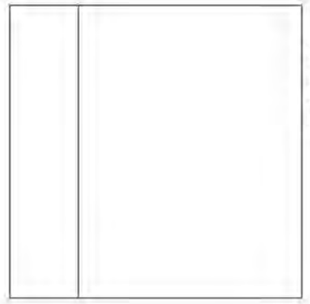
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

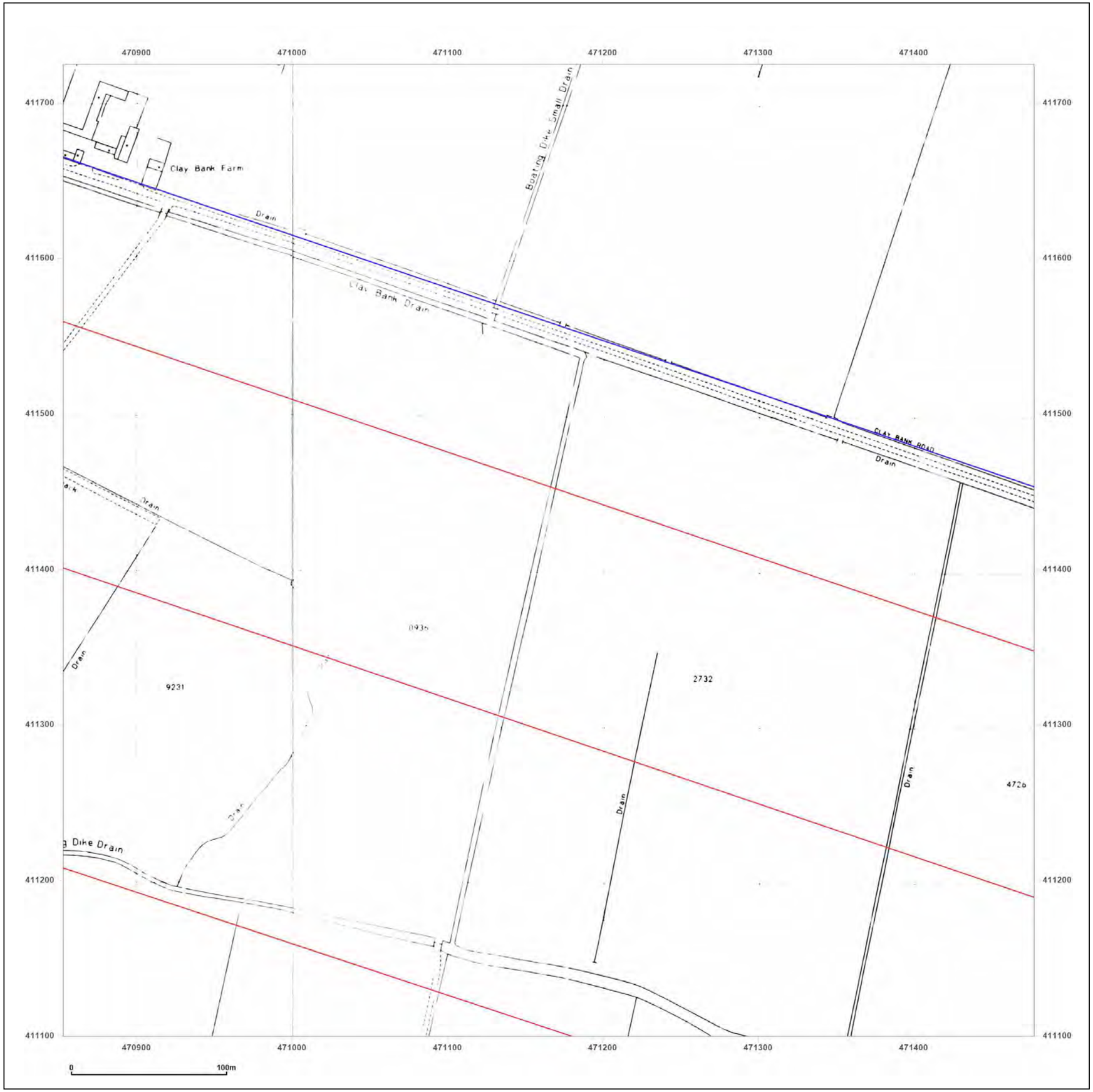
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_5
Grid Ref: 471165, 411412

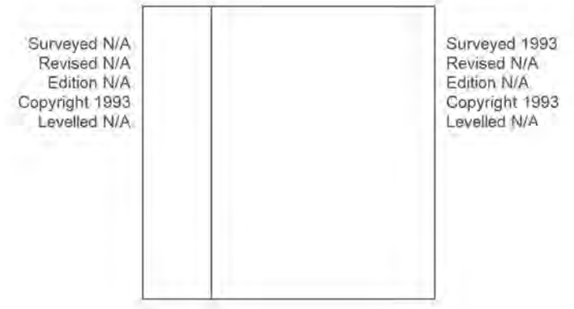
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_6
Grid Ref: 471165, 412037

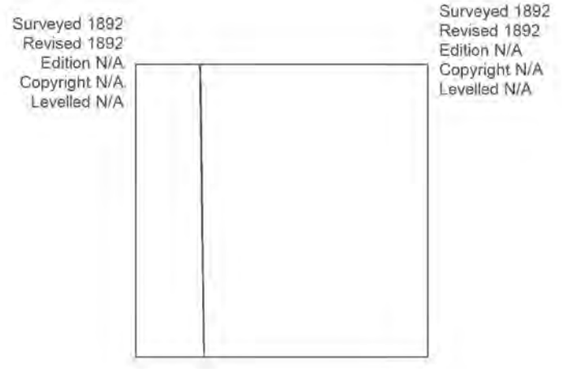
Map Name: County Series

Map date: 1892

Scale: 1:2,500

Printed at: 1:2,500

N
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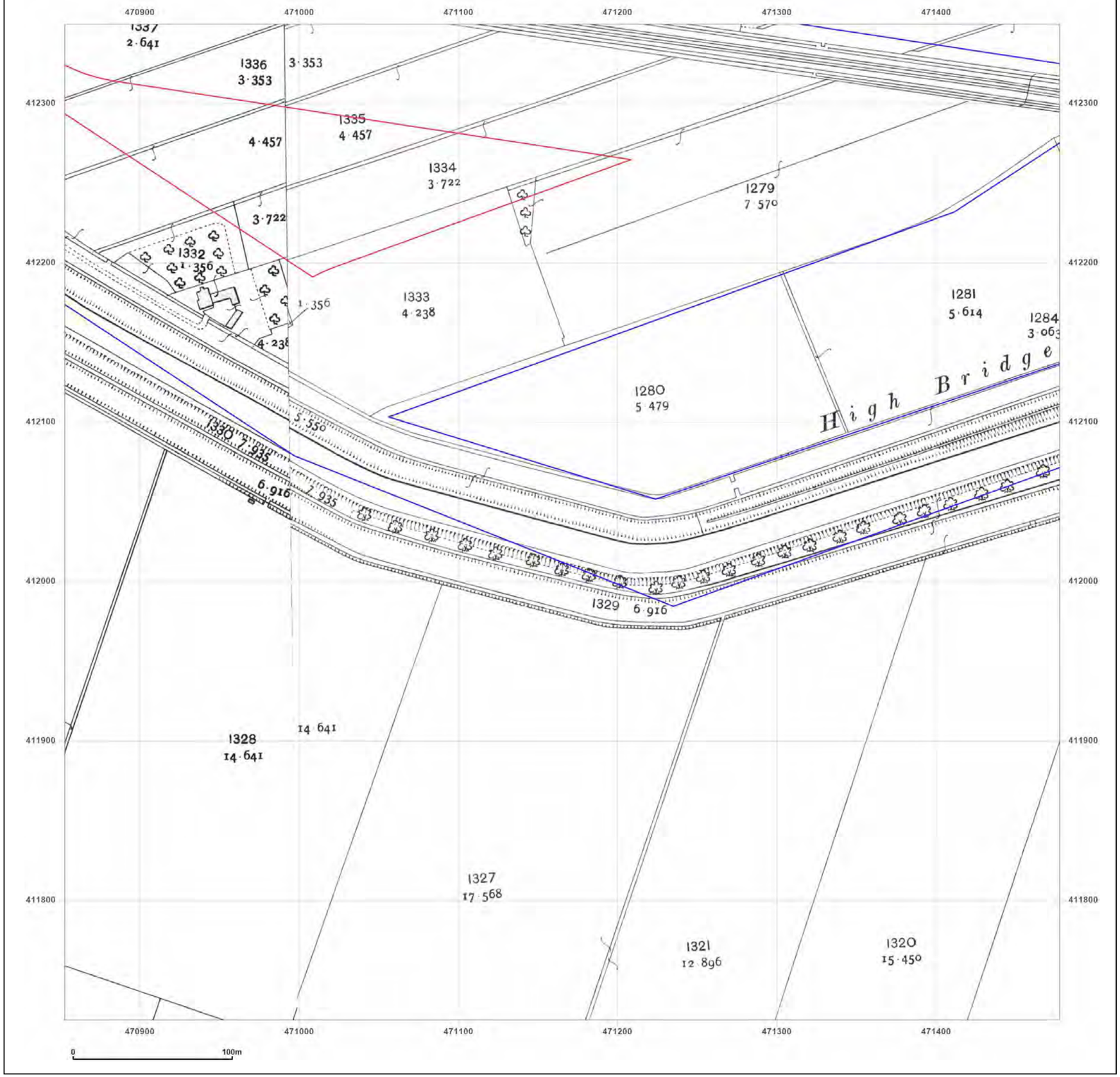
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Production date: 03 March 2023

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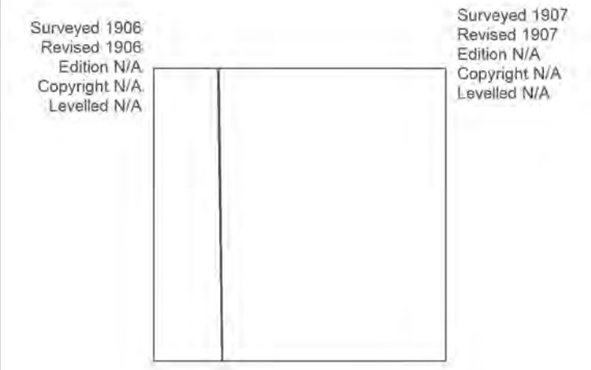
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_6
Grid Ref: 471165, 412037

Map Name: County Series
Map date: **1906-1907**
Scale: 1:2,500
Printed at: 1:2,500

N
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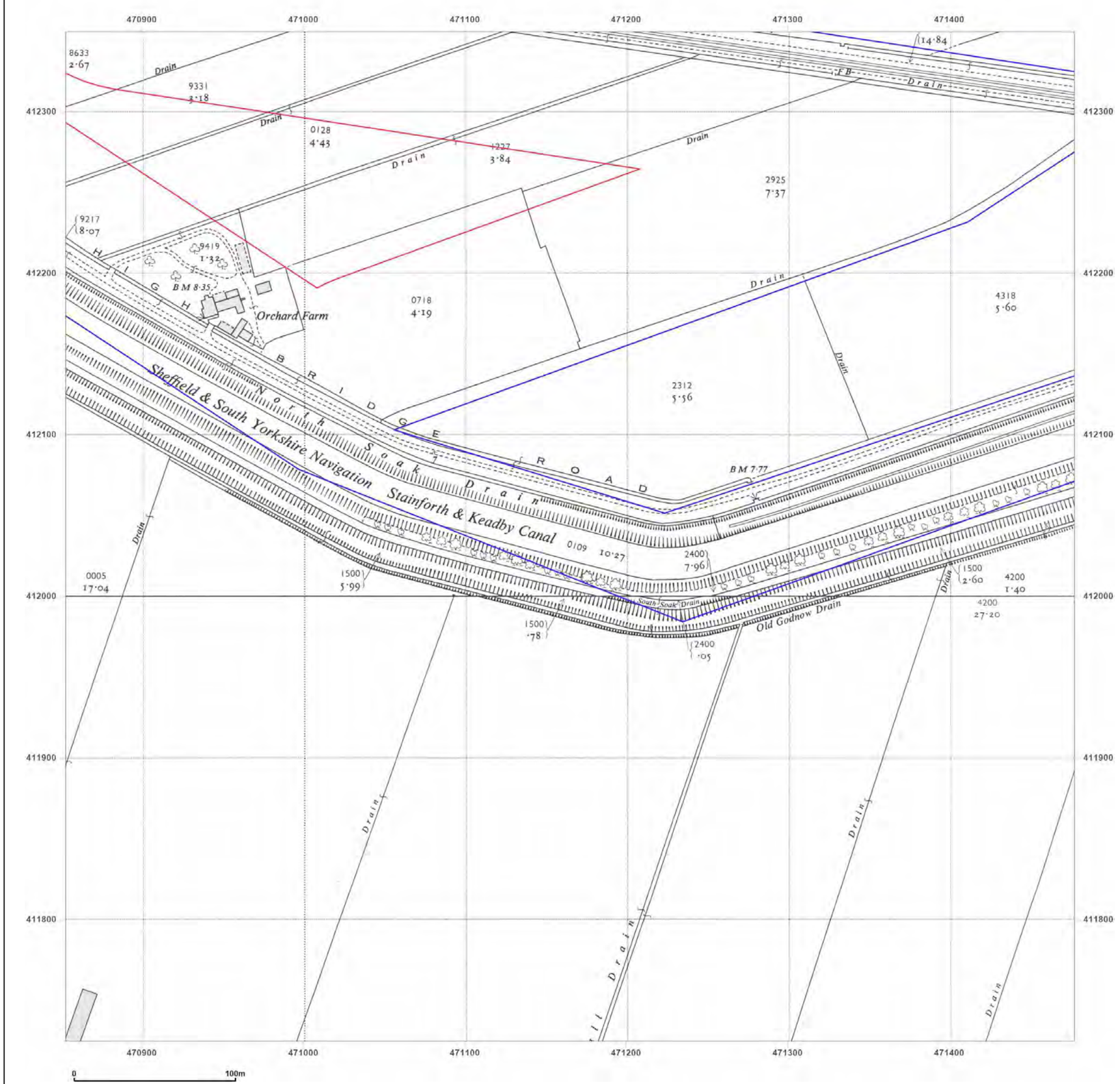
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_6
Grid Ref: 471165, 412037

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1961

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

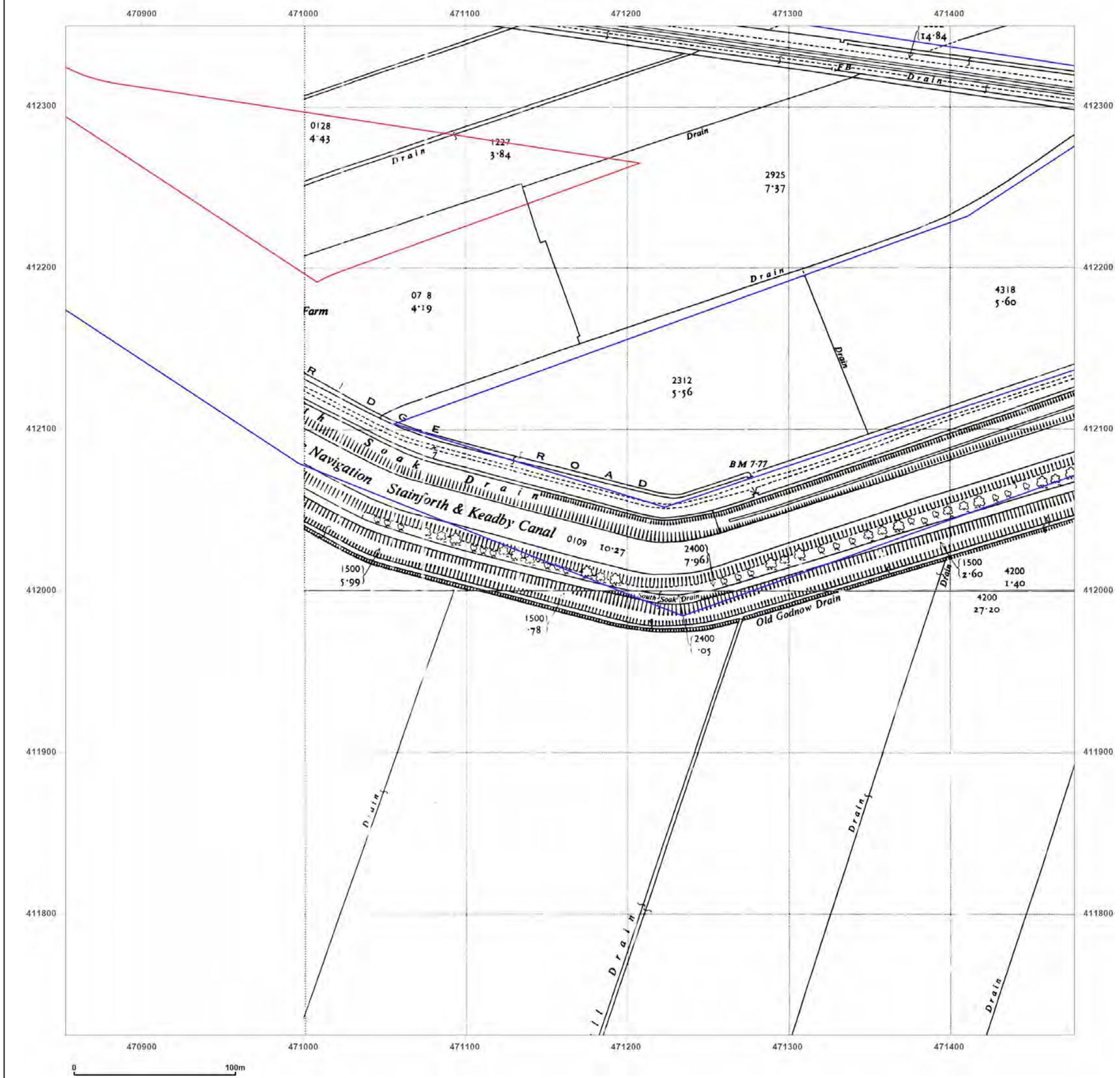
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_6
Grid Ref: 471165, 412037

Map Name: National Grid

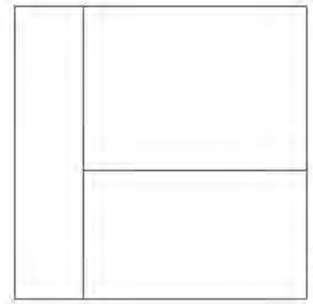
Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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

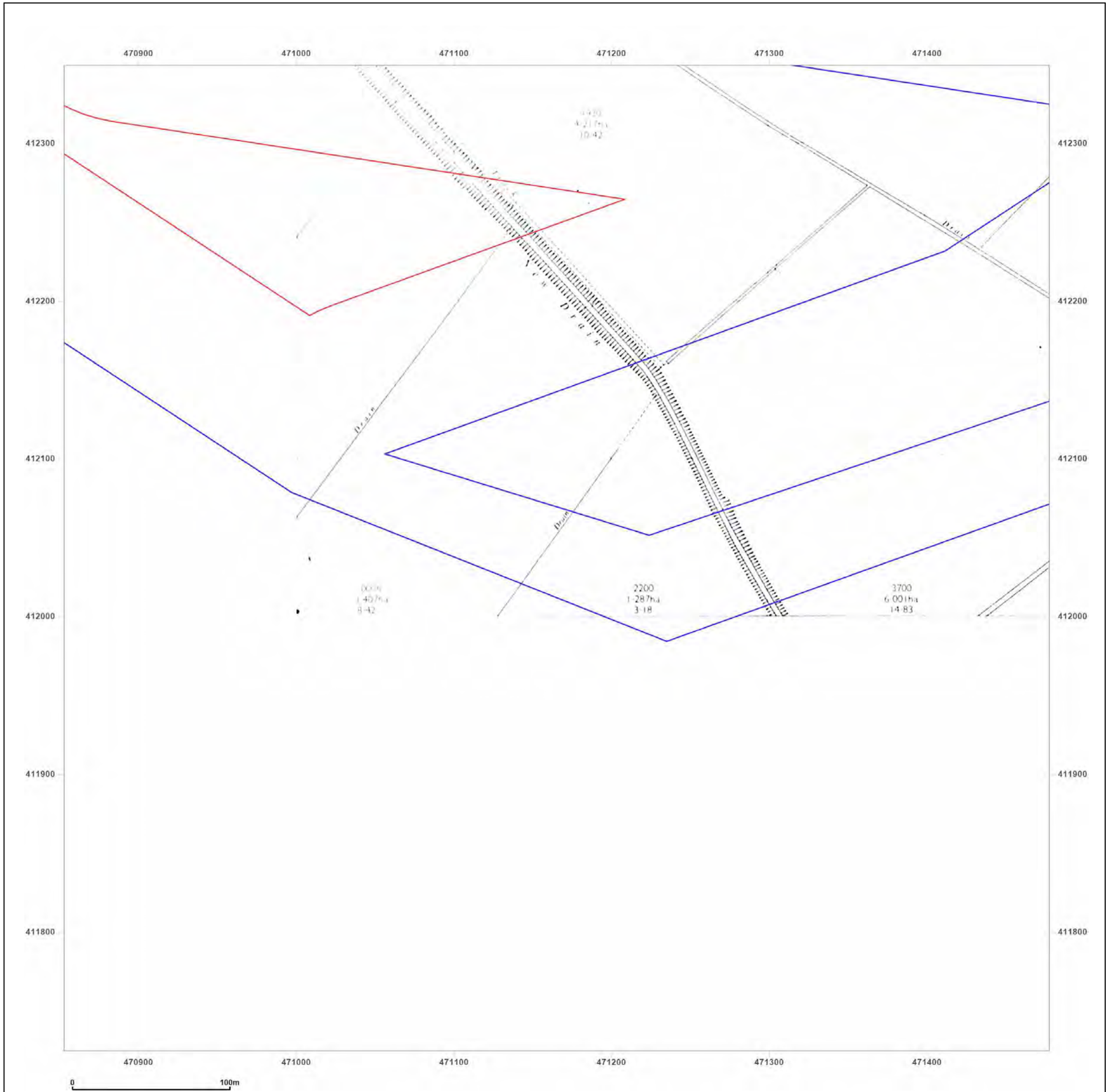
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_6
Grid Ref: 471165, 412037

Map Name: National Grid

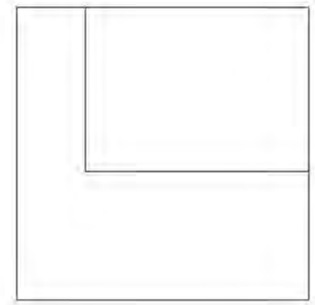
Map date: **1984**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1964
Revised 1984
Edition N/A
Copyright 1984
Levelled 1964



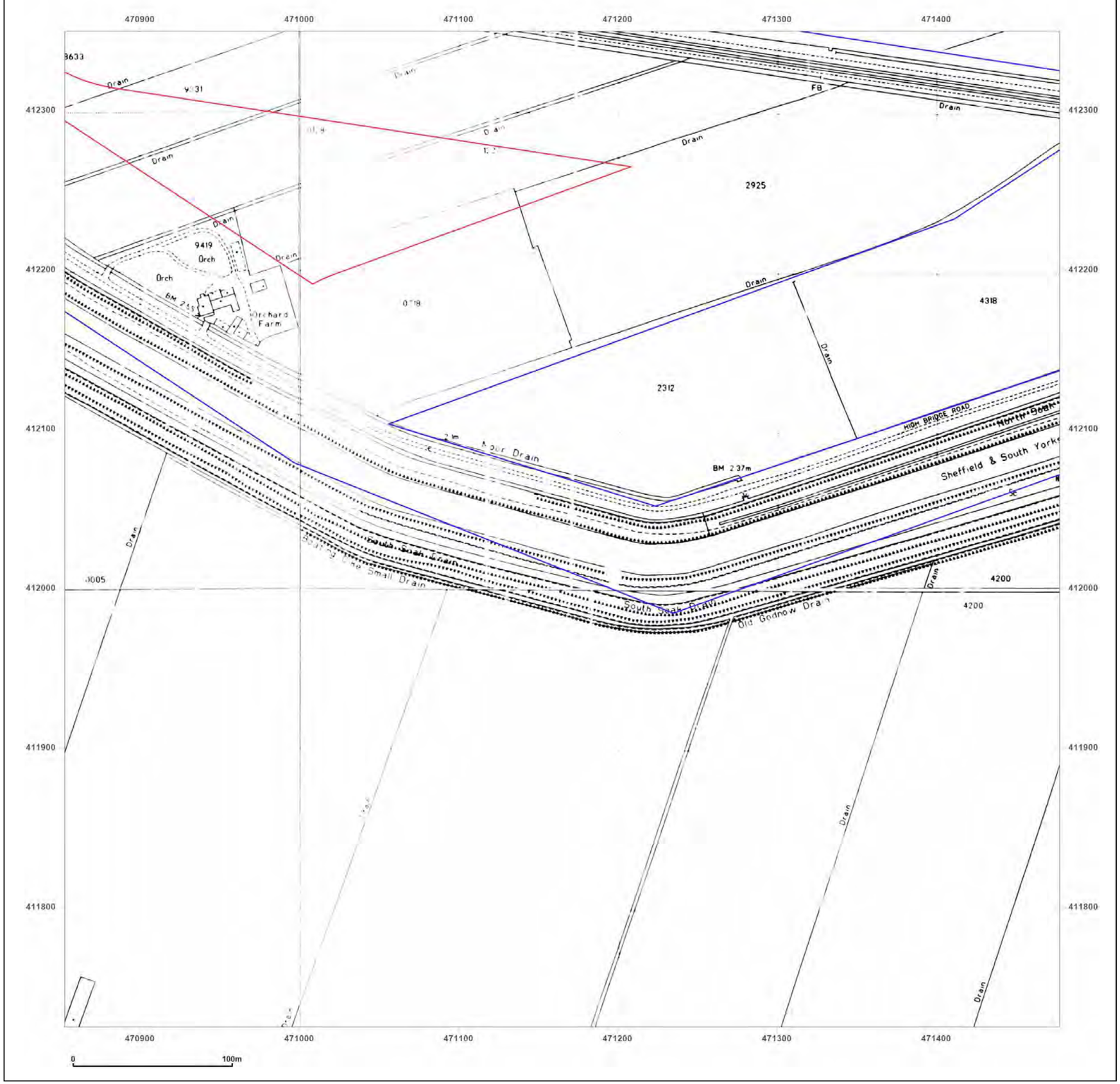
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_6
Grid Ref: 471165, 412037

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

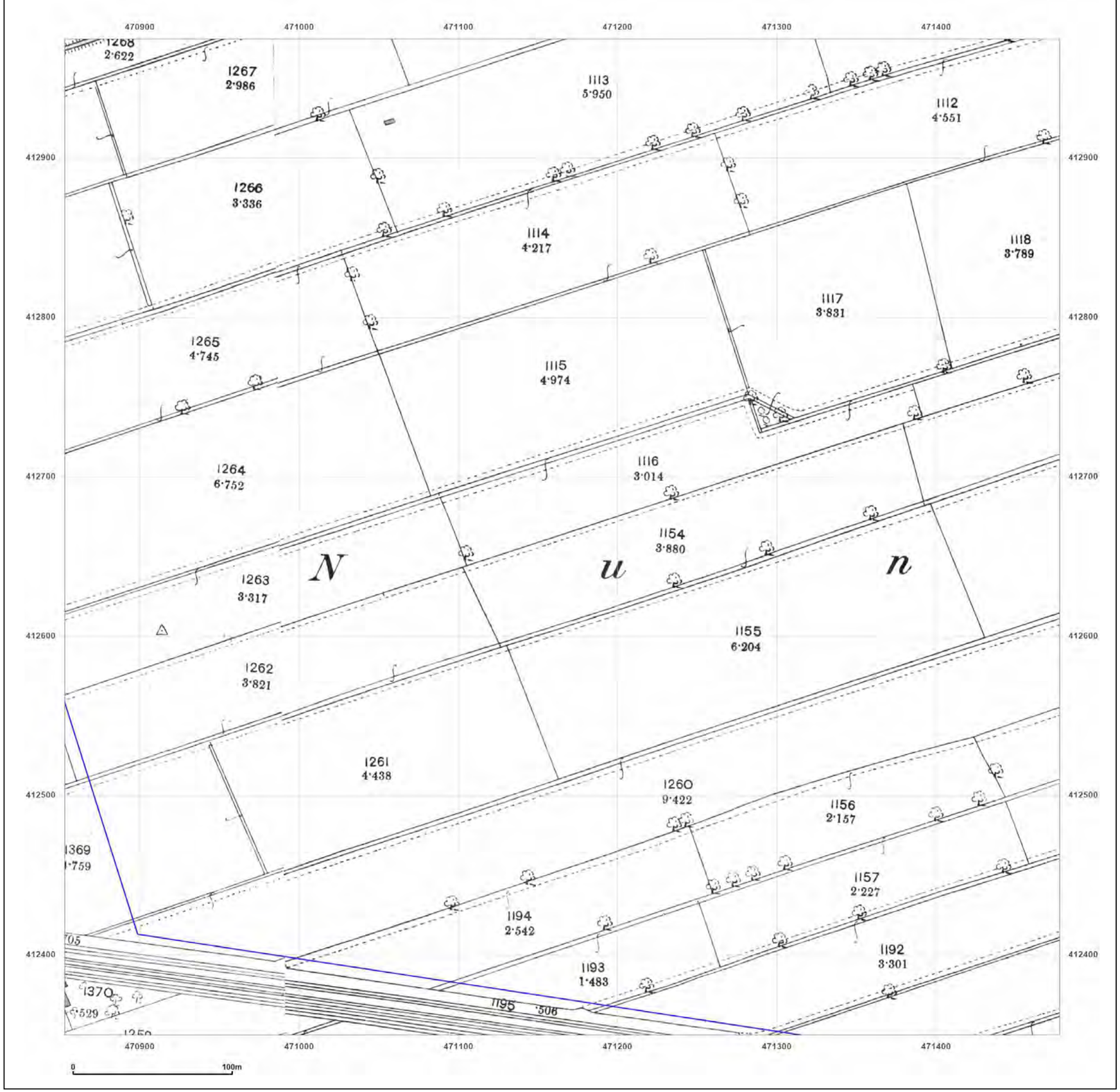
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_7
Grid Ref: 471165, 412662

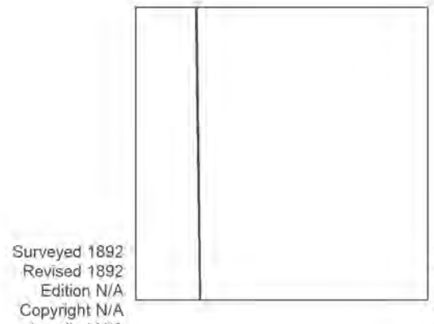
Map Name: County Series

Map date: 1892

Scale: 1:2,500

Printed at: 1:2,500

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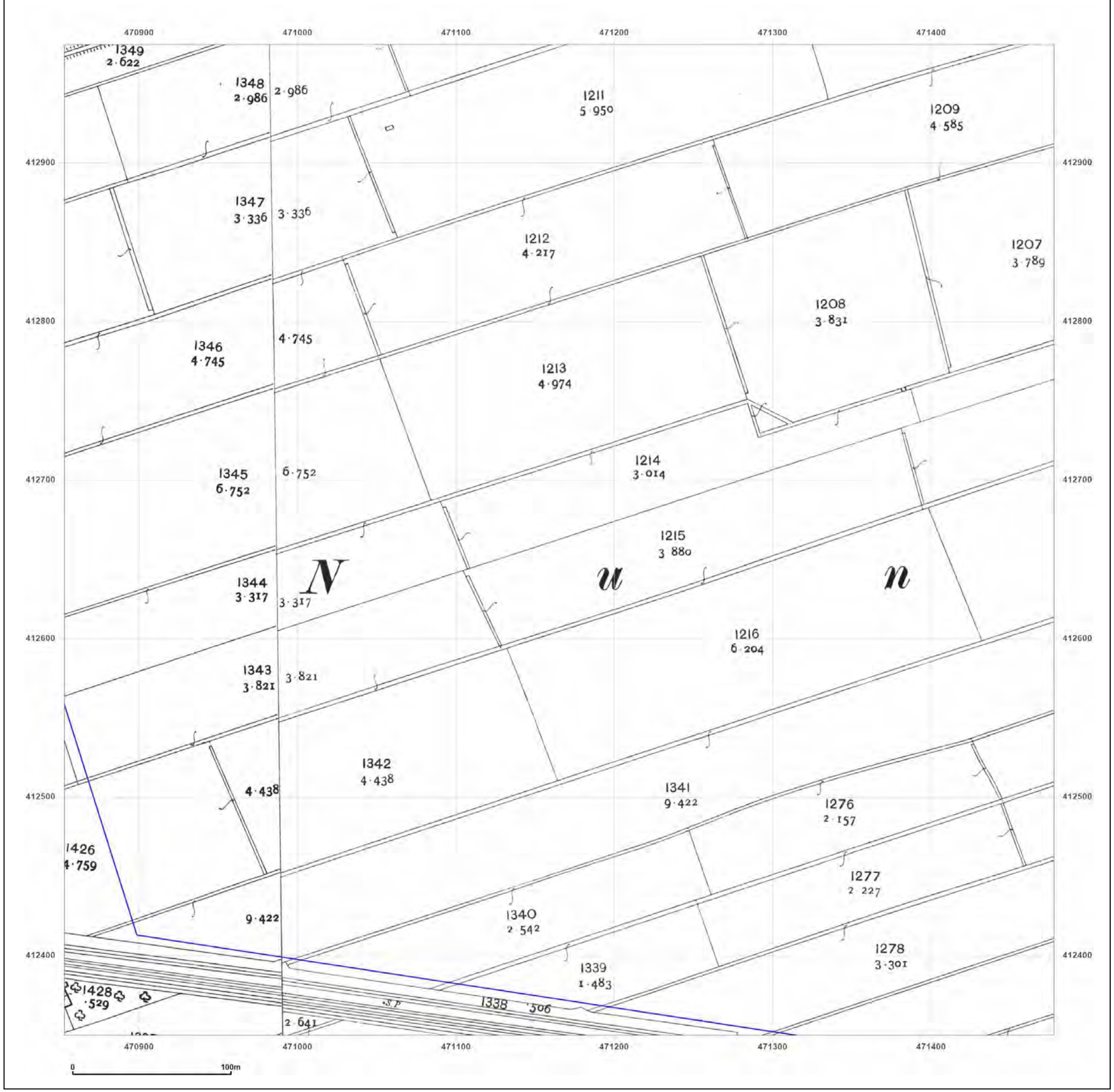
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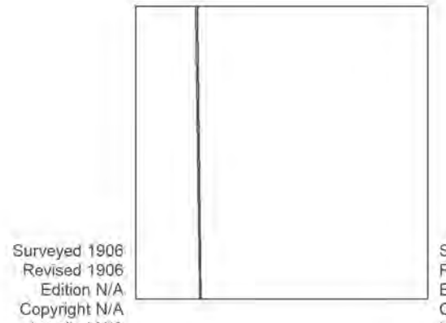
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_7
Grid Ref: 471165, 412662

Map Name: County Series
Map date: **1906-1907**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



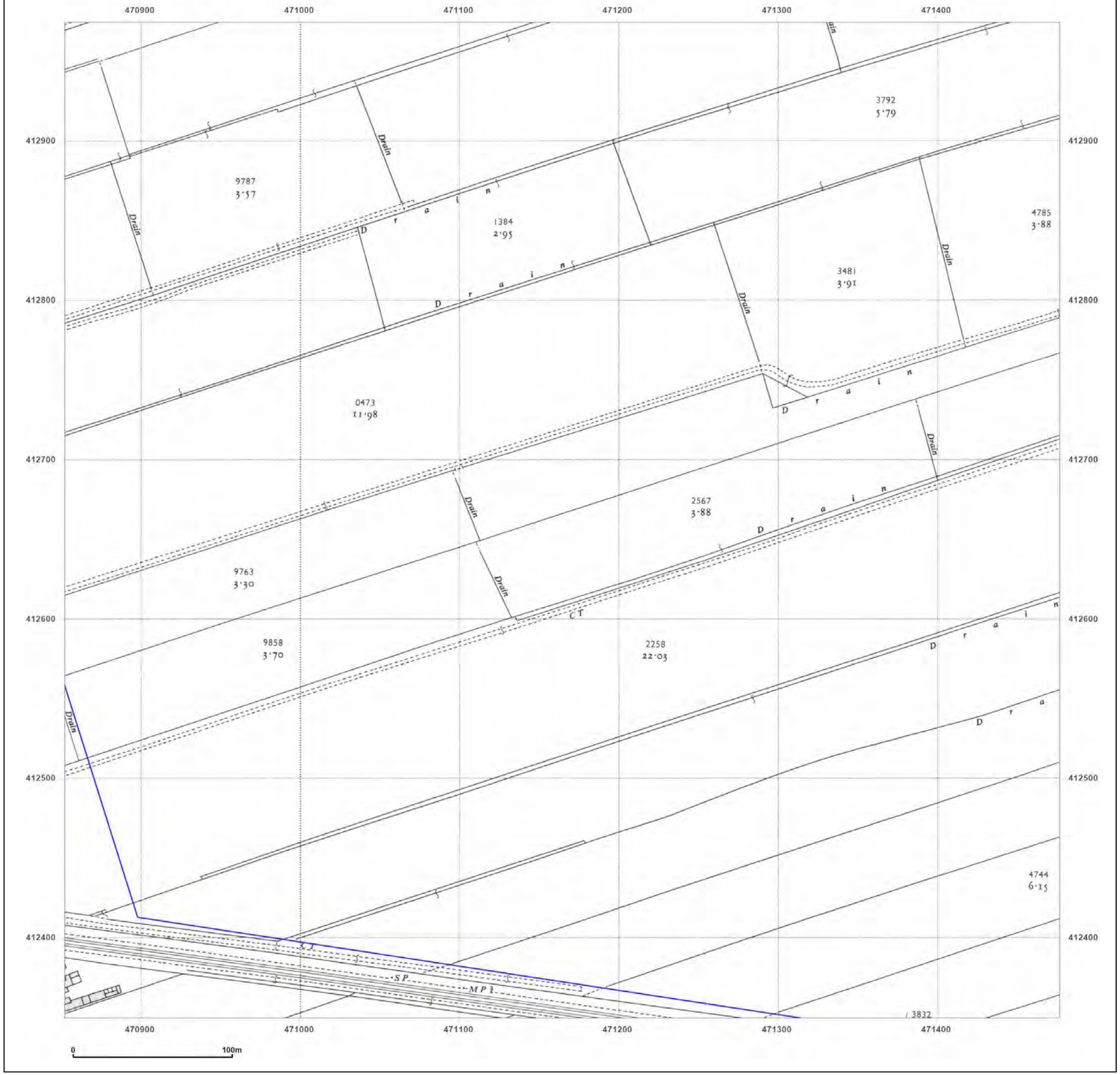
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_7
Grid Ref: 471165, 412662

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1961

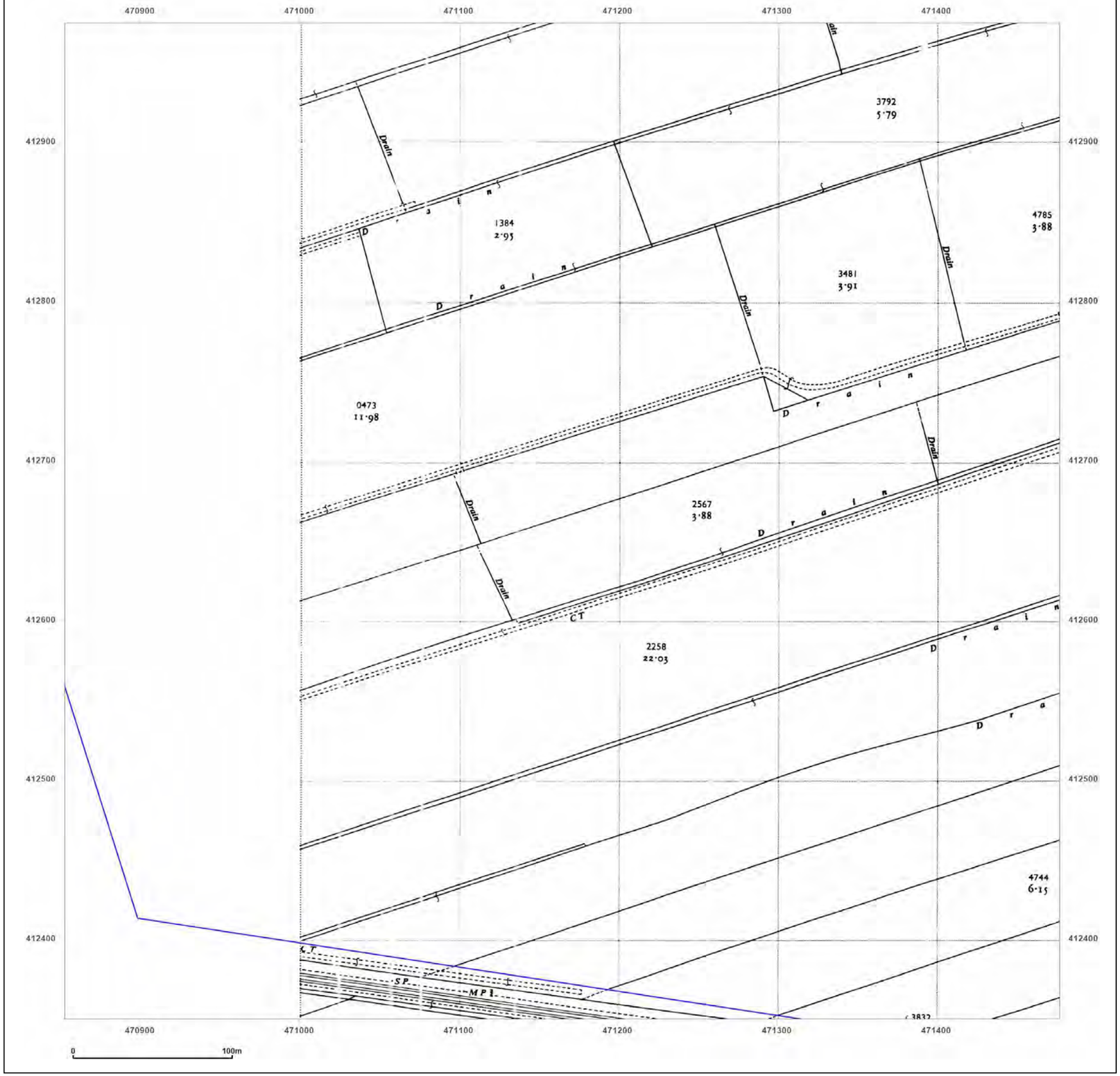
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_7
Grid Ref: 471165, 412662

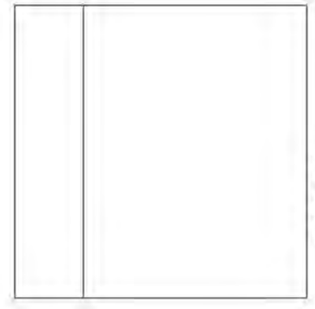
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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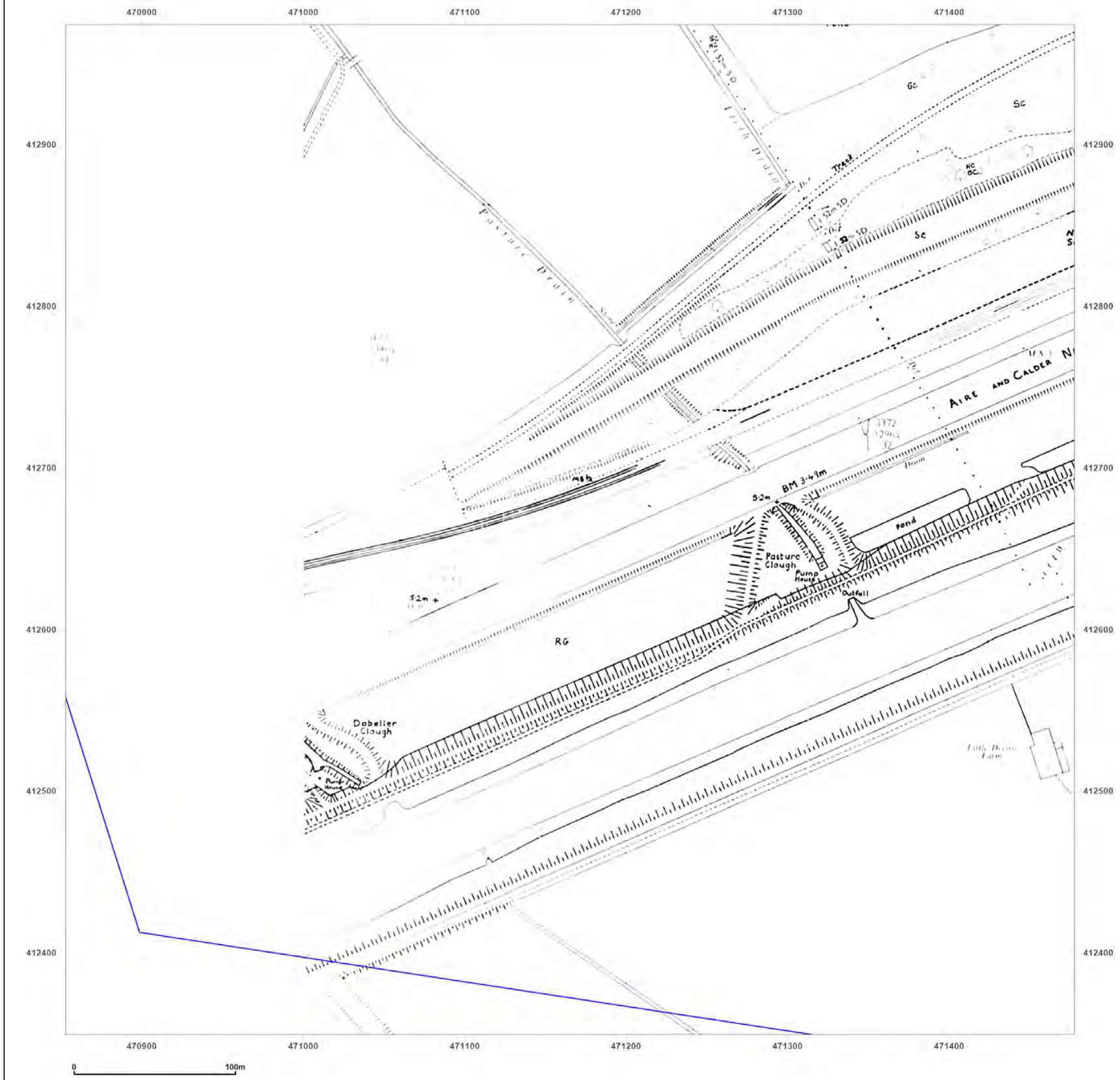
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_7
Grid Ref: 471165, 412662

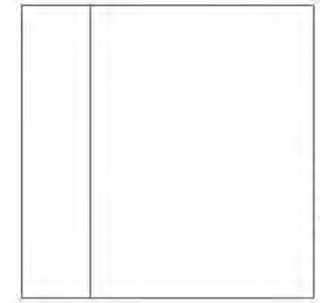
Map Name: National Grid

Map date: **1984**

Scale: 1:2,500

Printed at: 1:2,500

N
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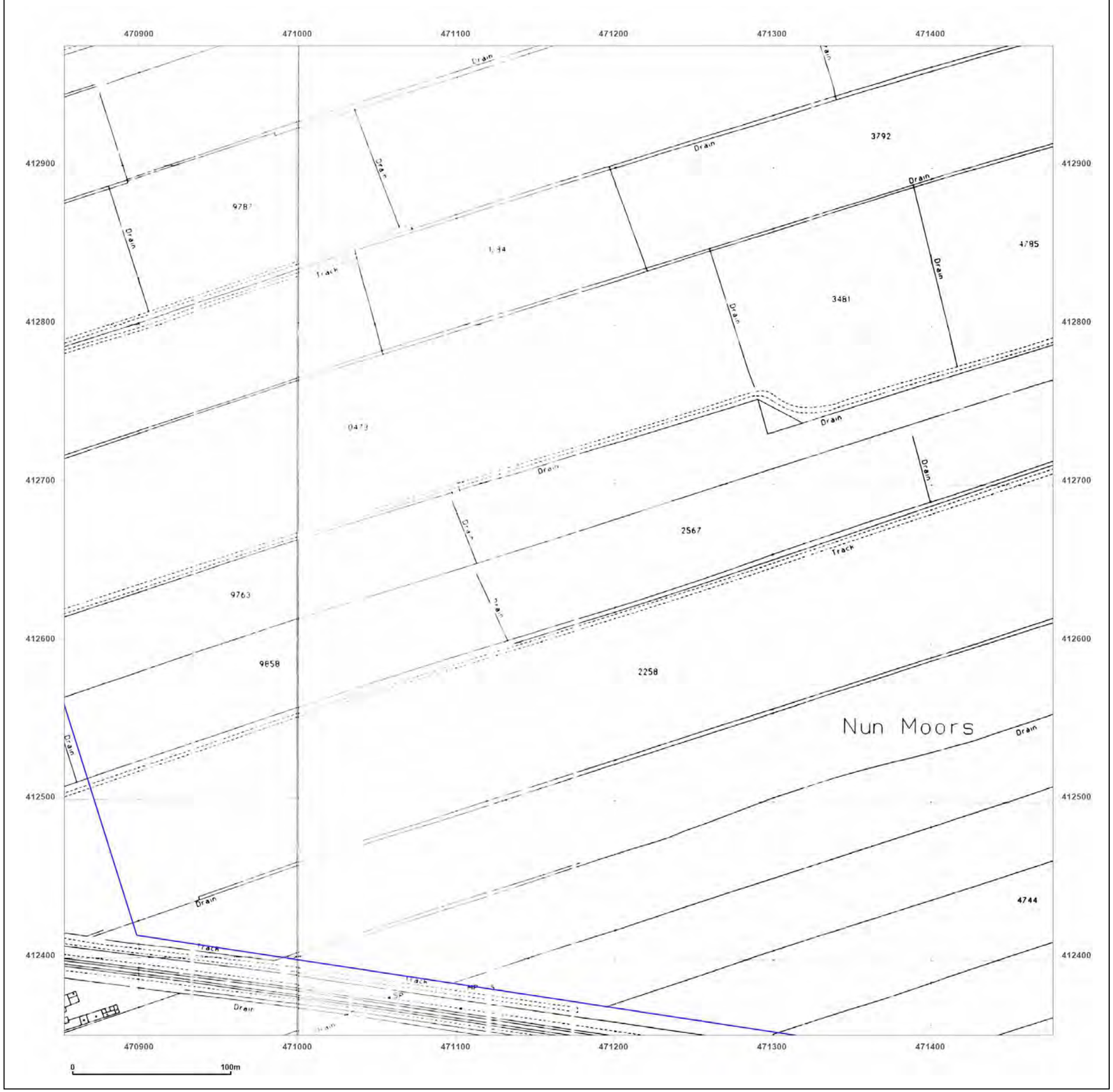
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Production date: 03 March 2023

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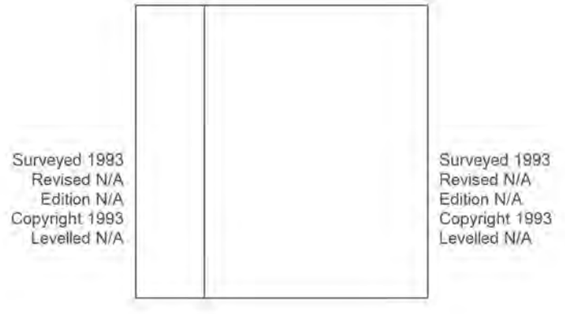
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_7
Grid Ref: 471165, 412662

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



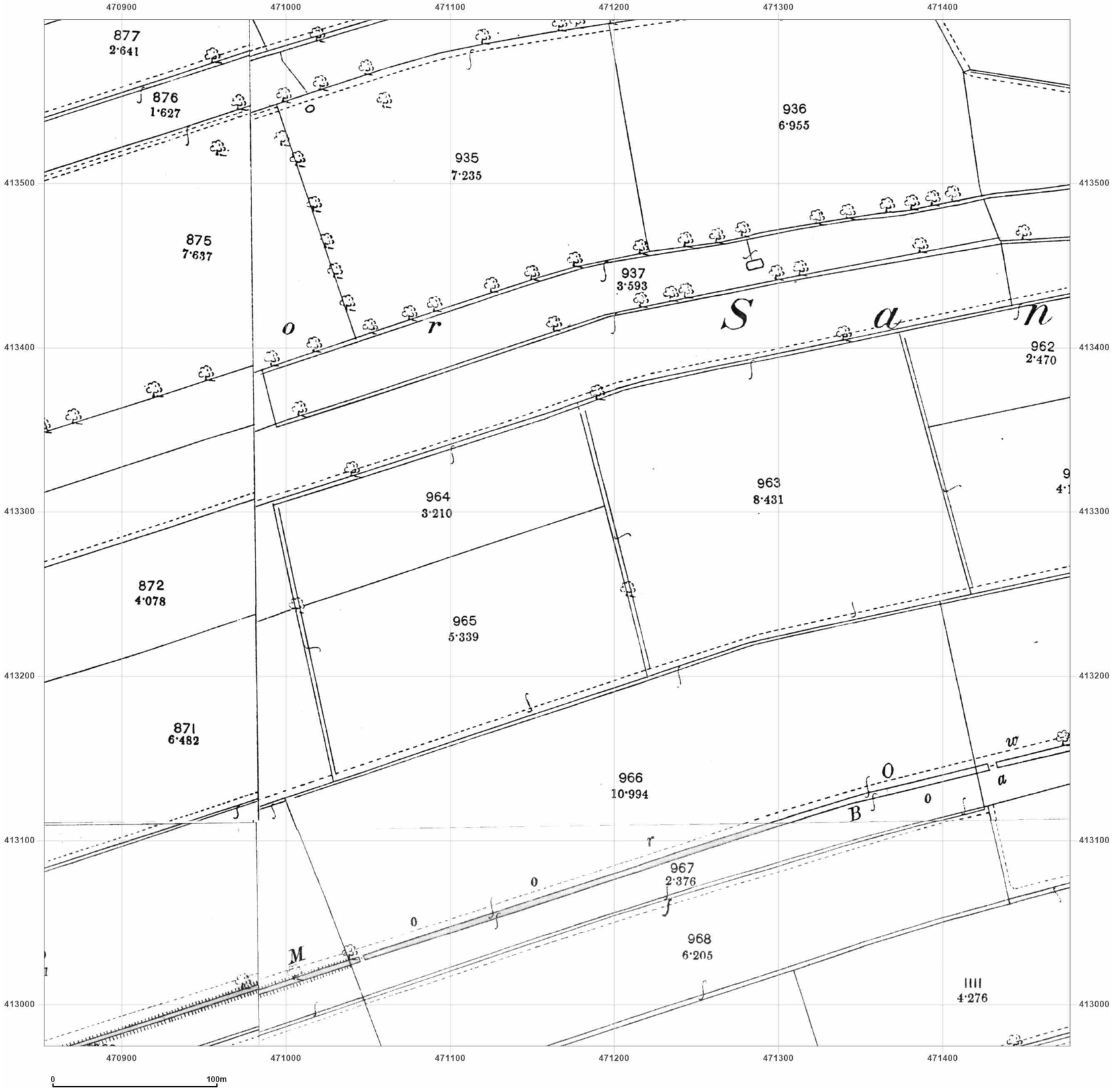
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Production date: 03 March 2023

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Groundsure INSIGHTS

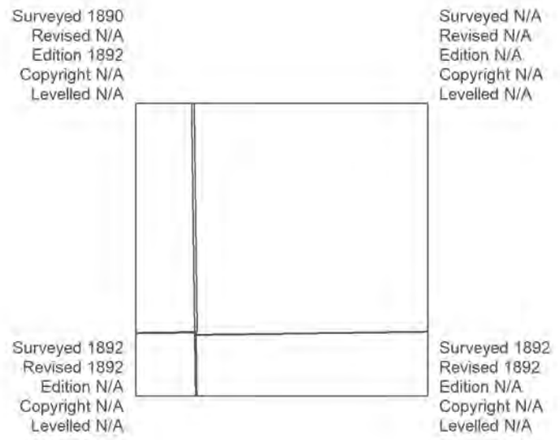
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_8
Grid Ref: 471165, 413287

Map Name: County Series
Map date: **1891-1892**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S



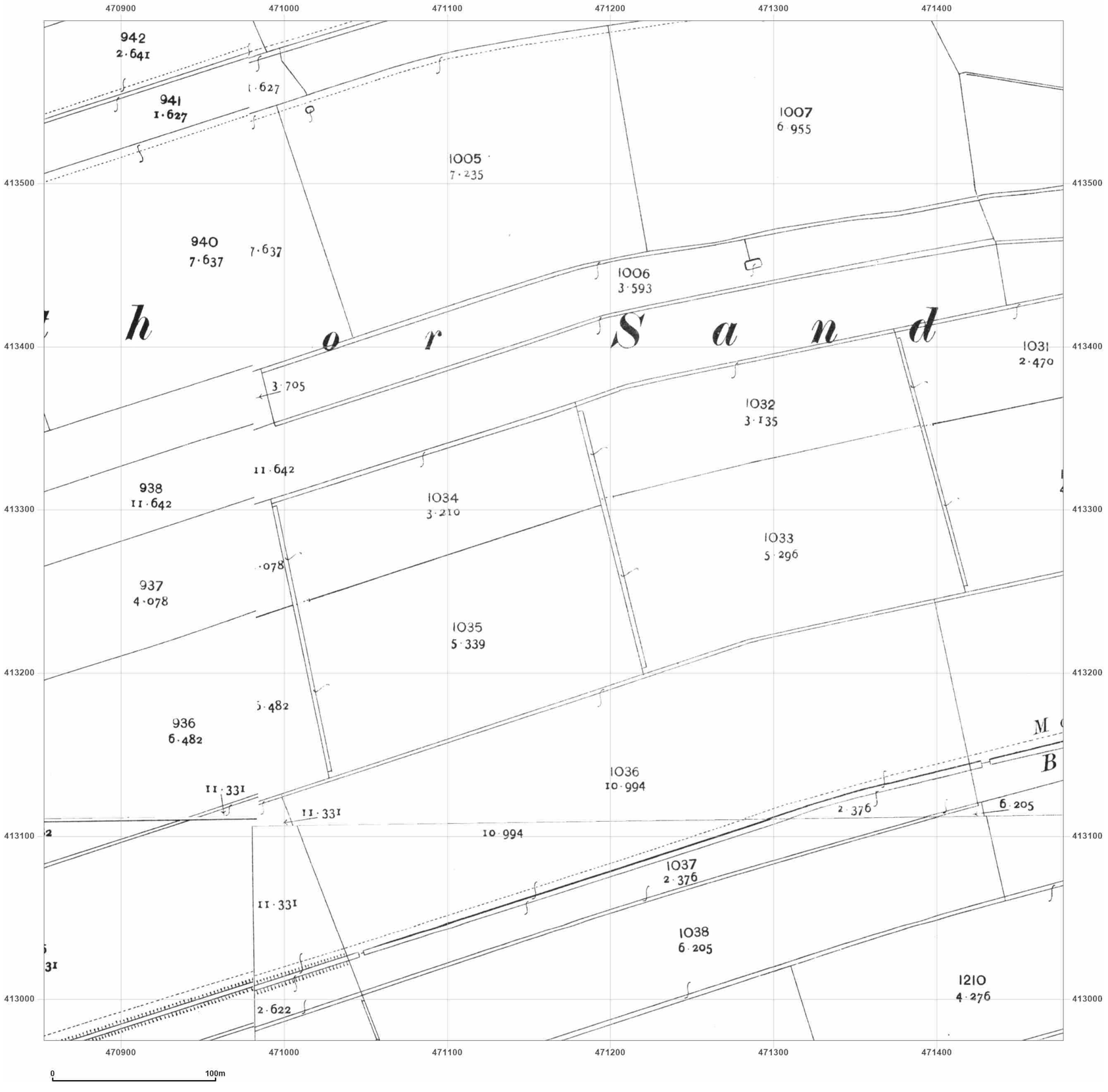
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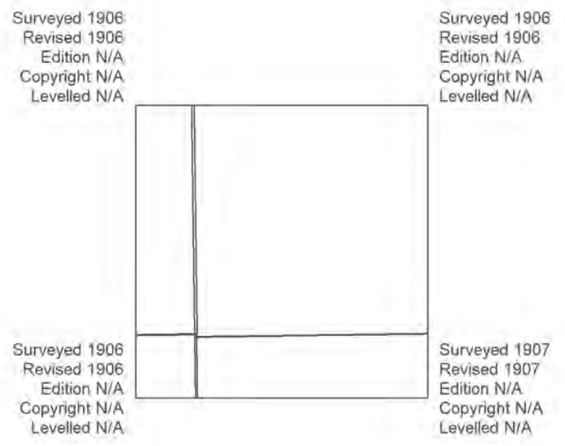
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_8
Grid Ref: 471165, 413287

Map Name: County Series
Map date: **1906-1907**
Scale: 1:2,500
Printed at: 1:2,500

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W E
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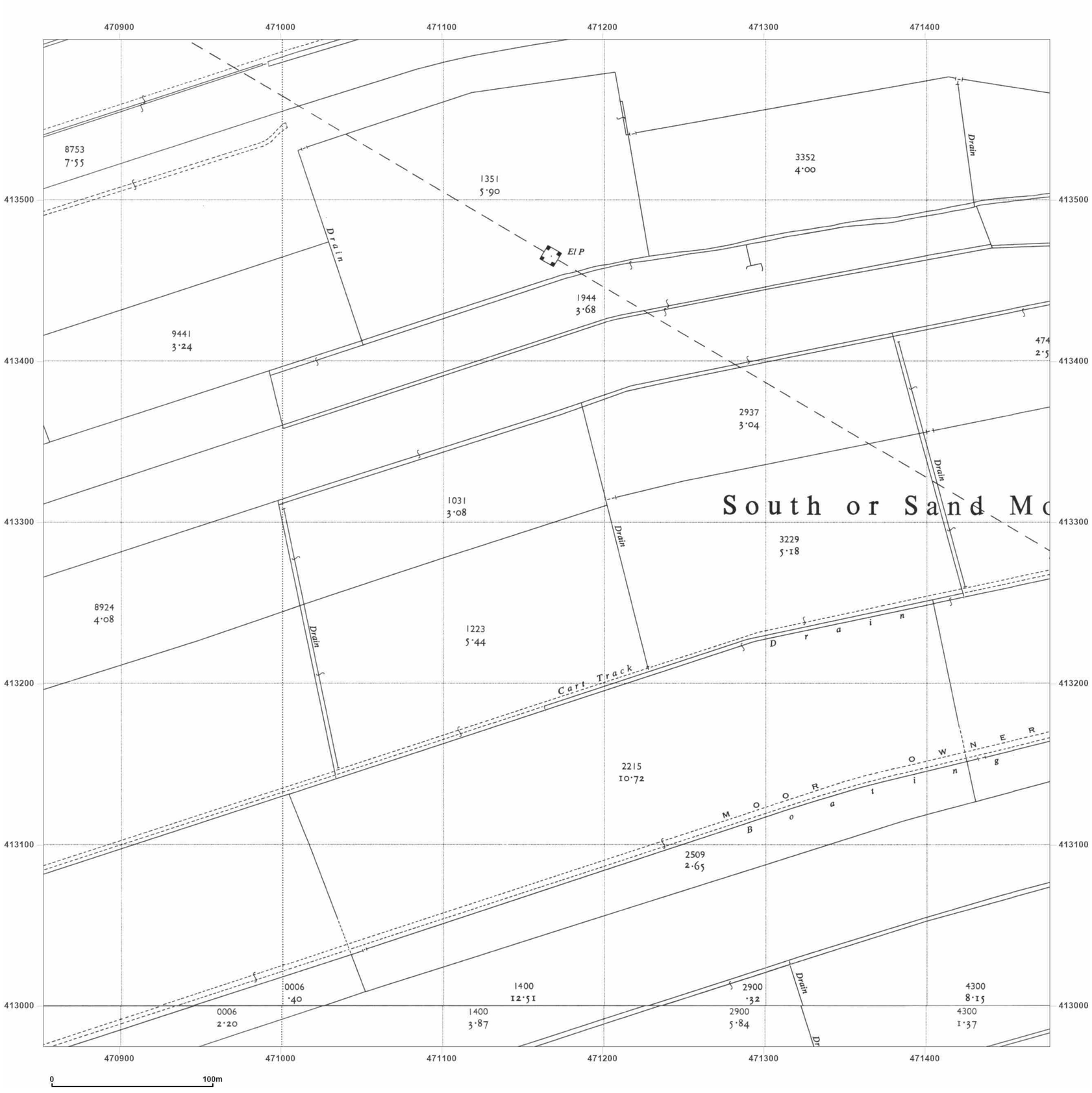
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_8
Grid Ref: 471165, 413287

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1961

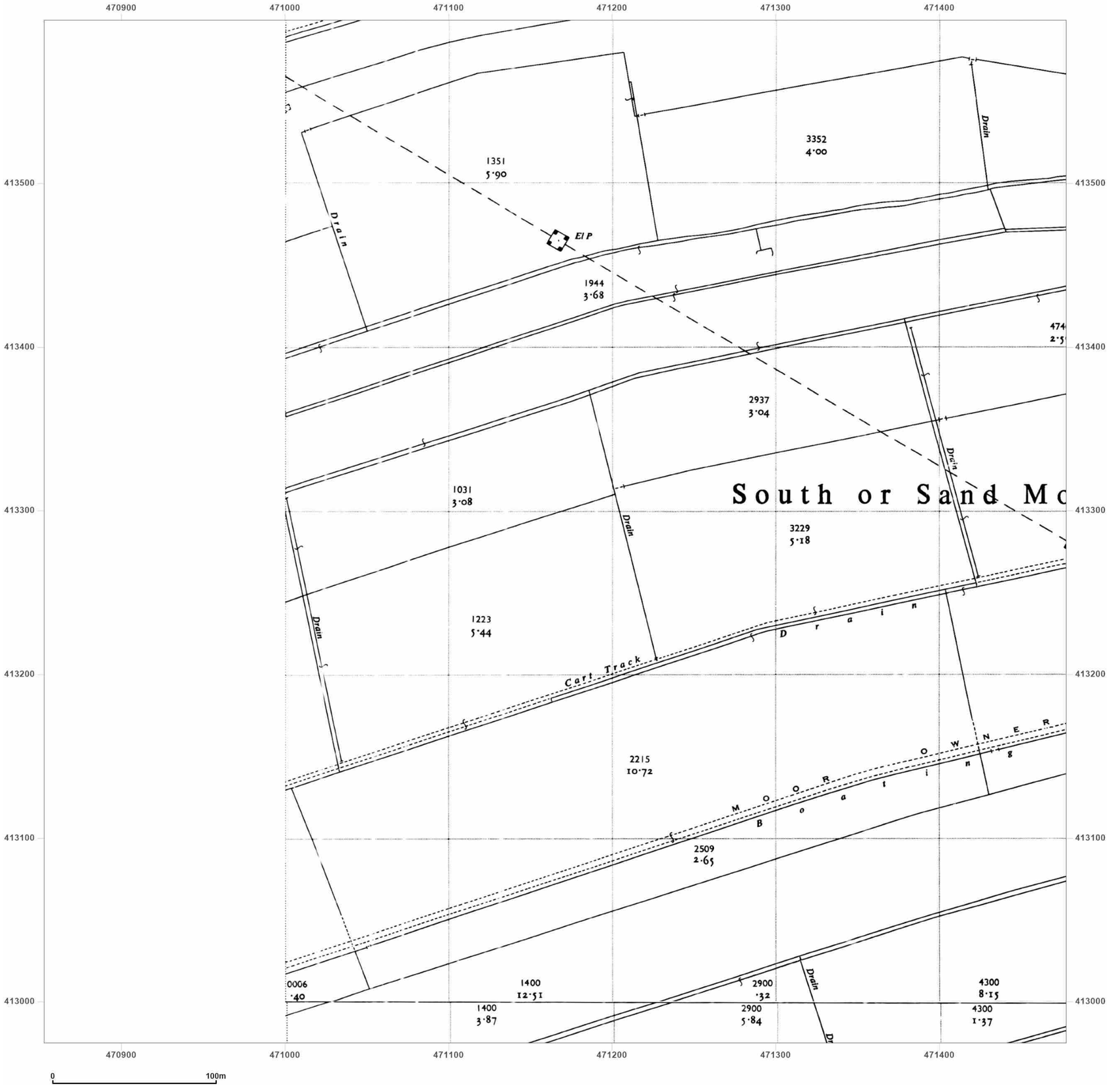
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_8
Grid Ref: 471165, 413287

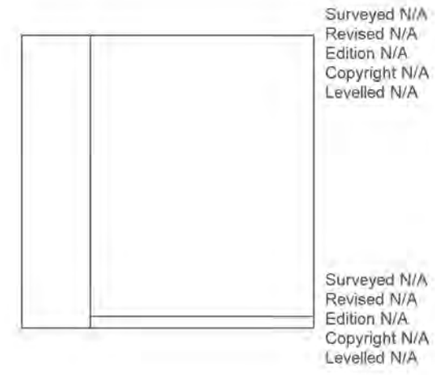
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



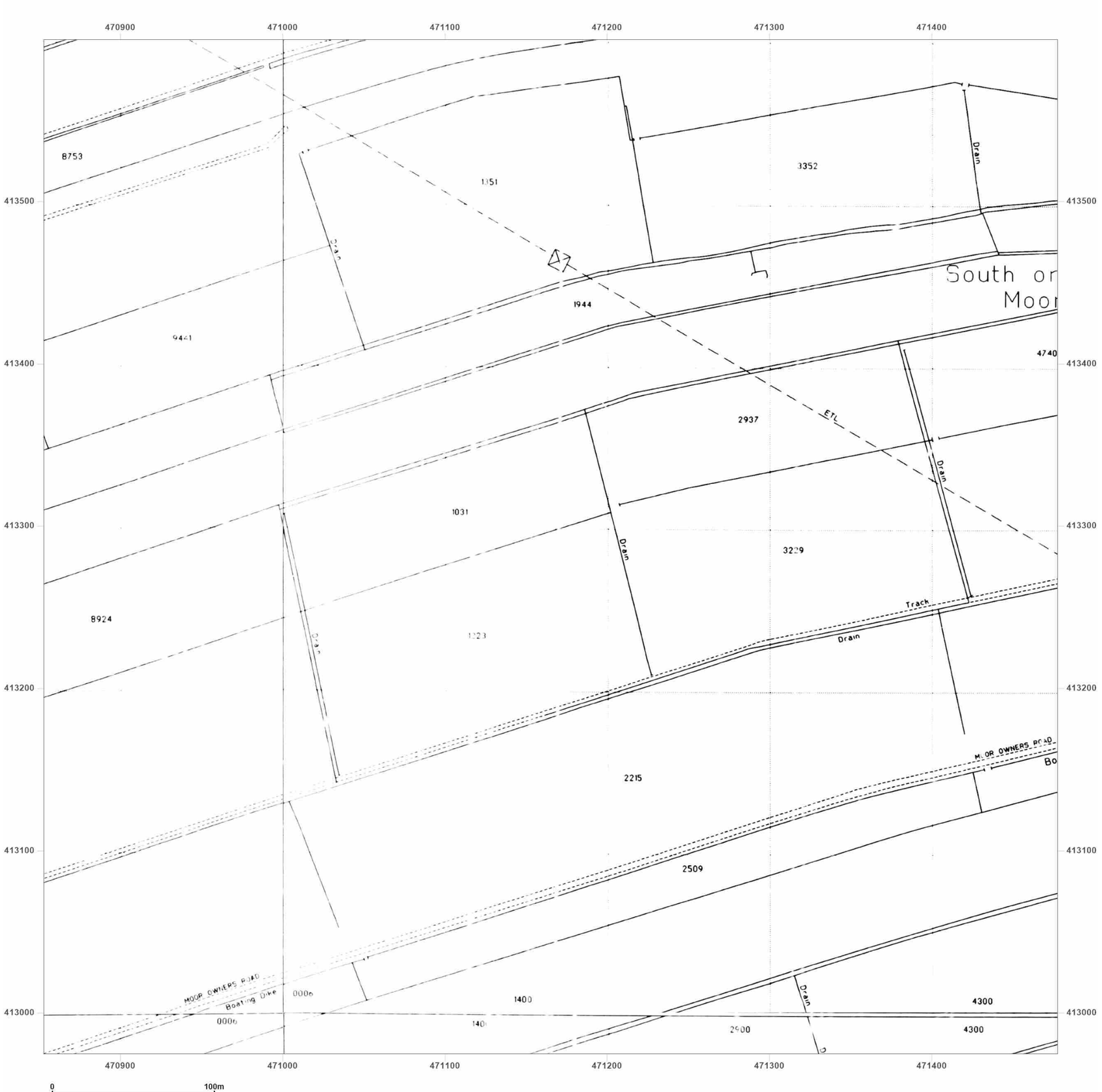
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_8
Grid Ref: 471165, 413287

Map Name: National Grid
Map date: **1993**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

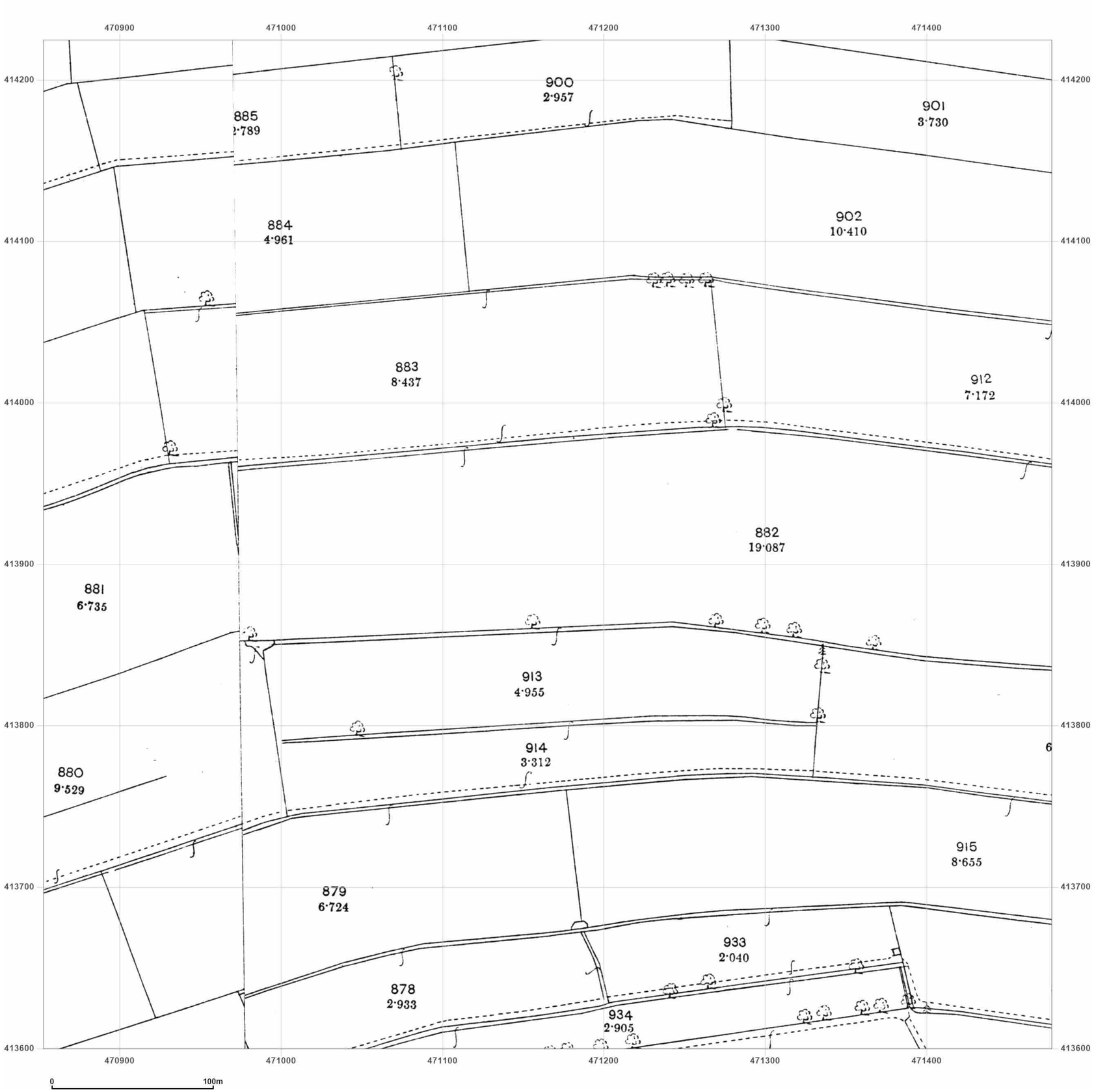
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_9
Grid Ref: 471165, 413912

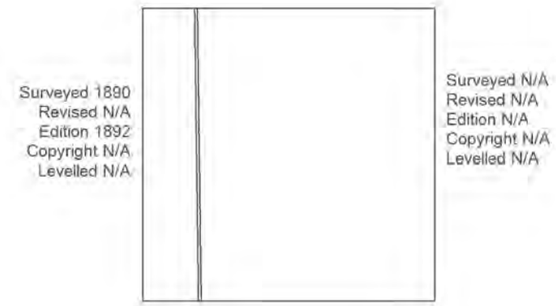
Map Name: County Series

Map date: **1891-1892**

Scale: 1:2,500

Printed at: 1:2,500

N
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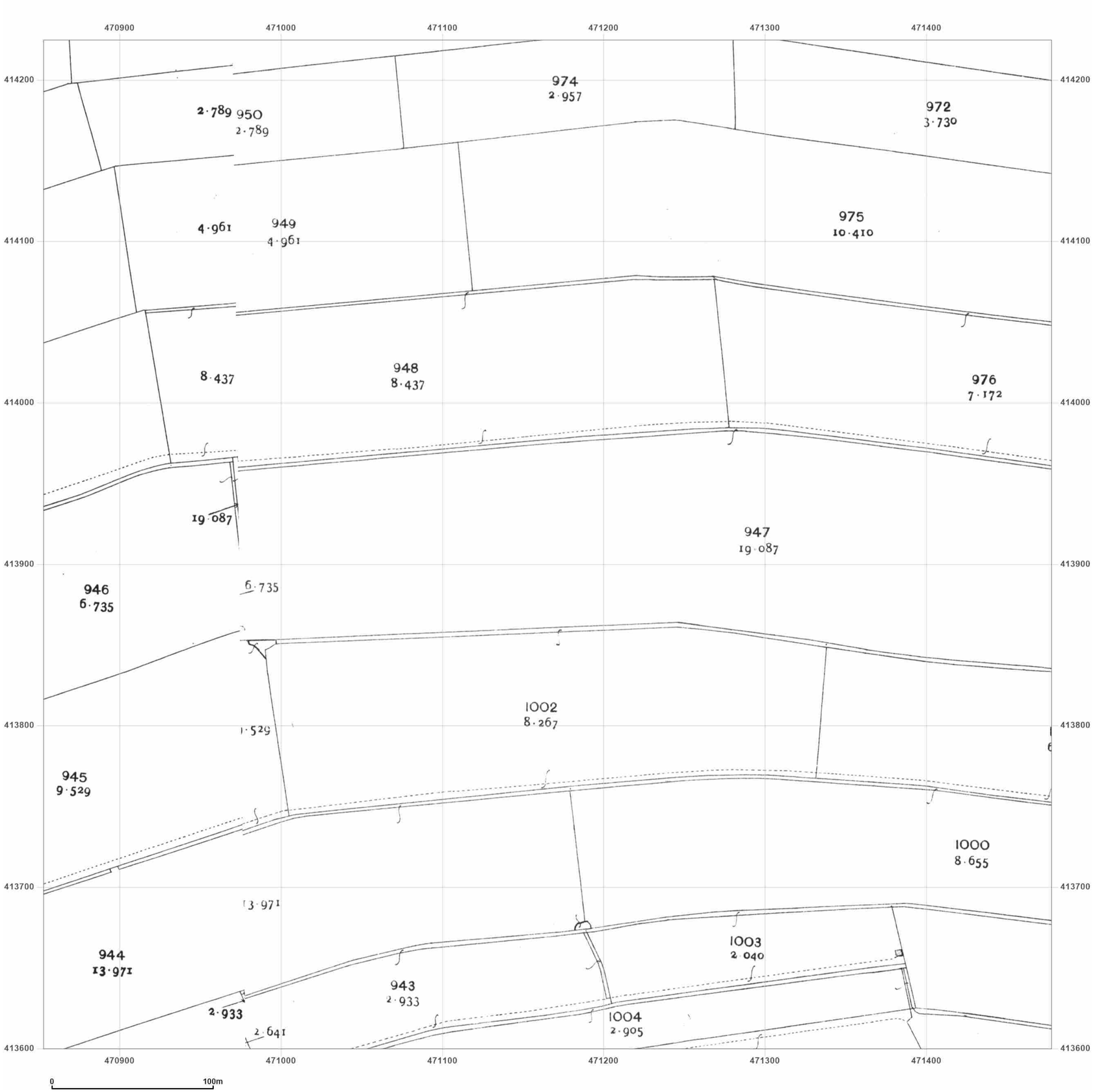
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Production date: 03 March 2023

Map legend available at:
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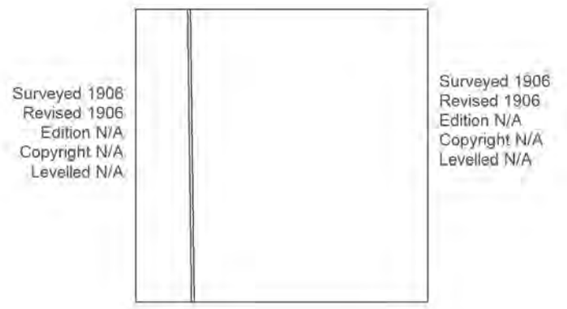
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_9
Grid Ref: 471165, 413912

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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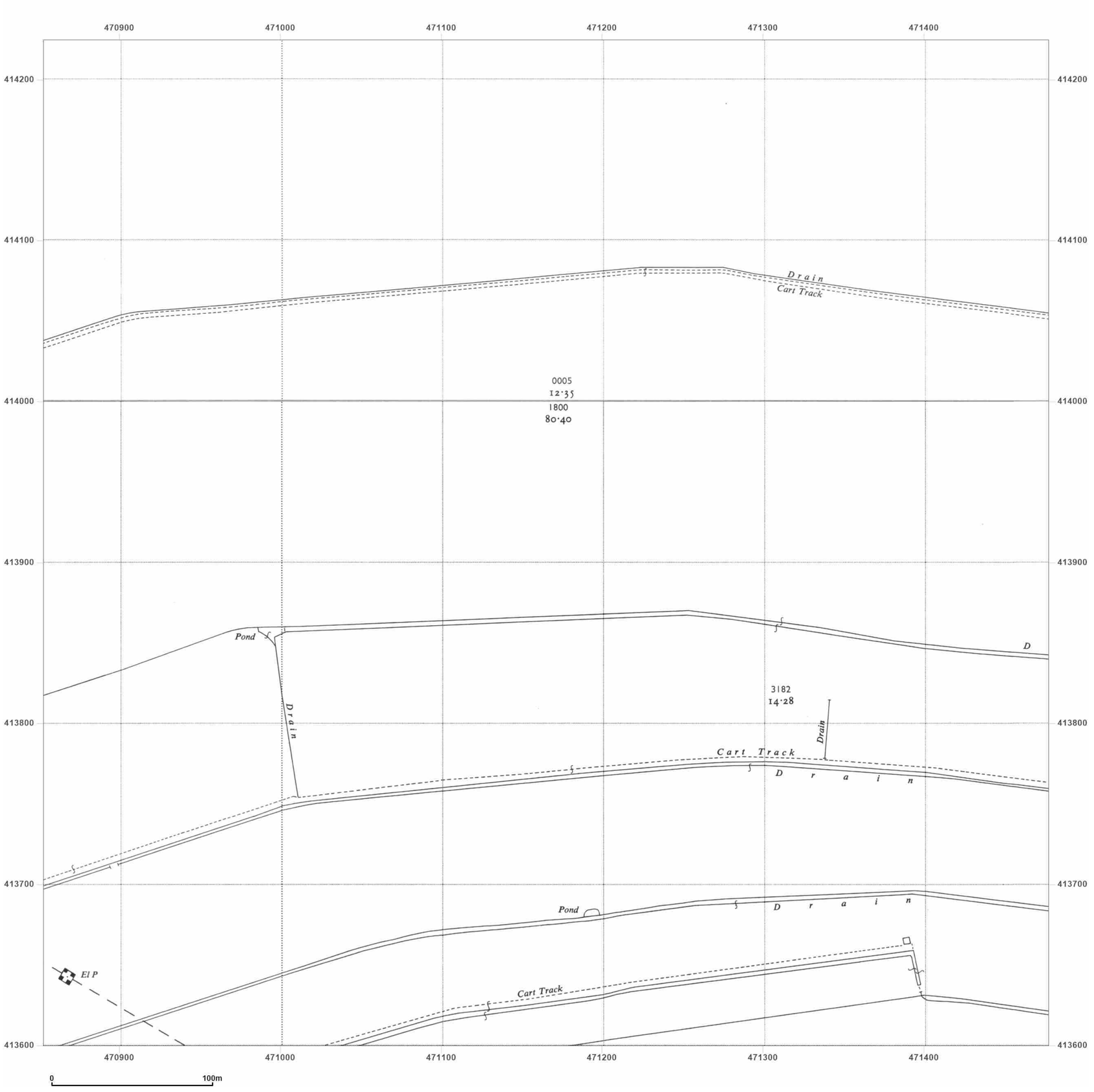
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_9
Grid Ref: 471165, 413912

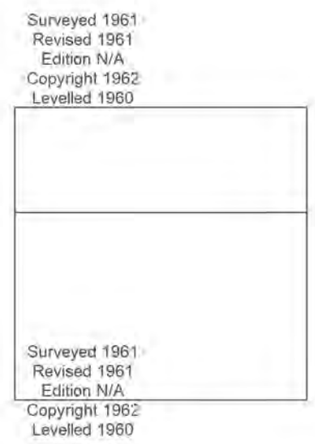
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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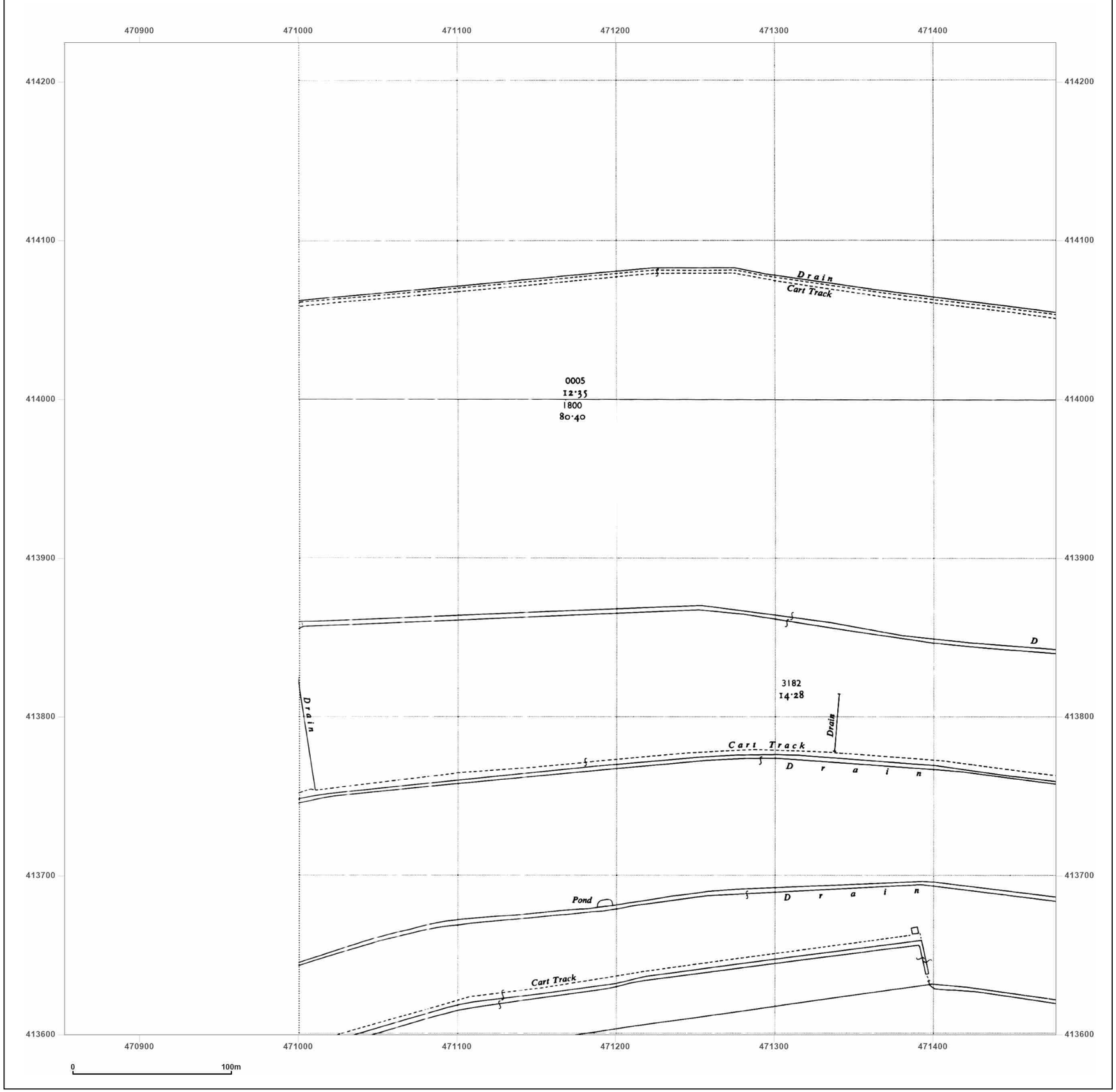
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_9
Grid Ref: 471165, 413912

Map Name: National Grid

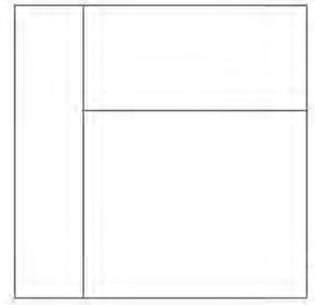
Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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



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

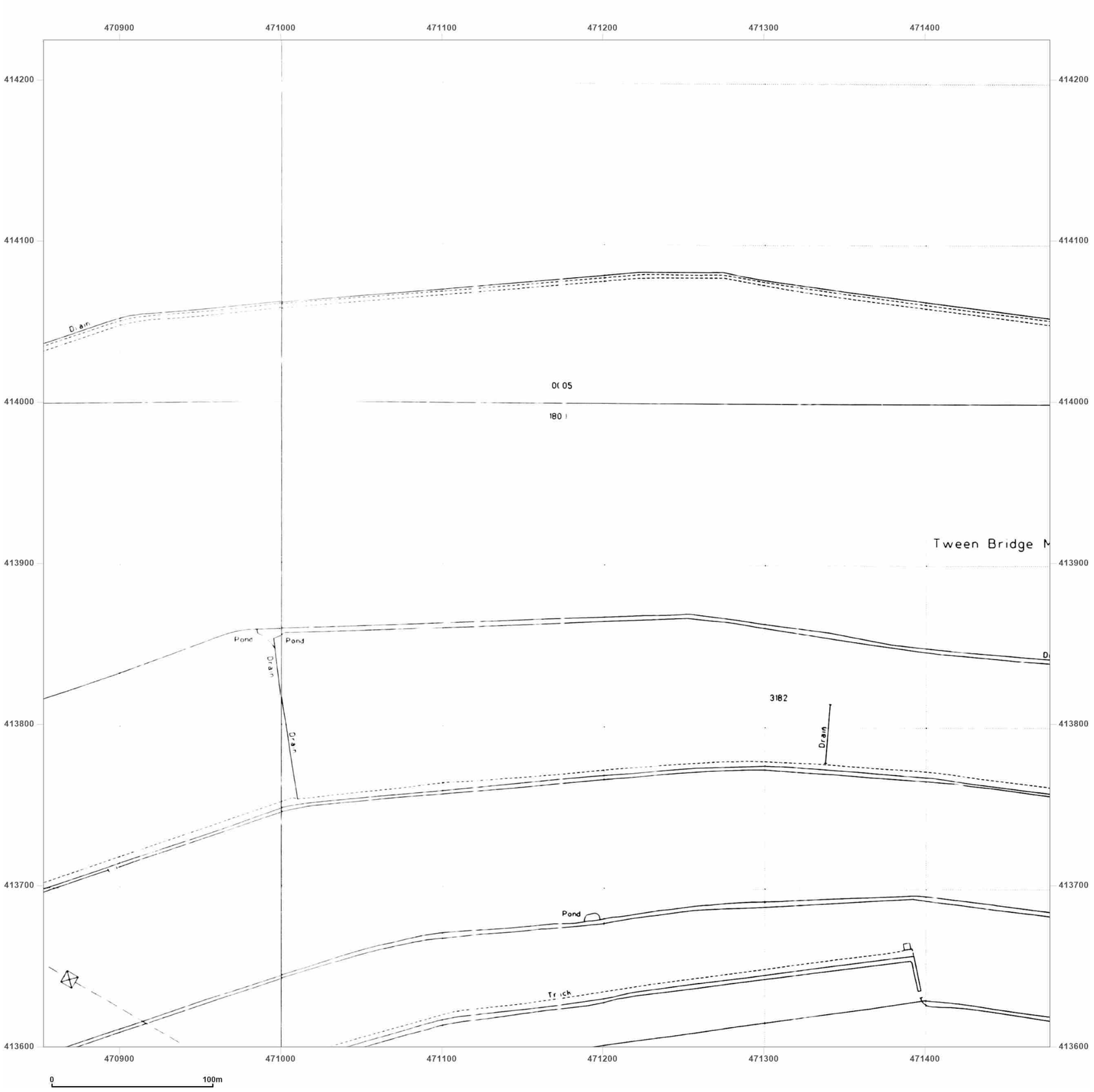
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Production date: 03 March 2023

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_9
Grid Ref: 471165, 413912

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

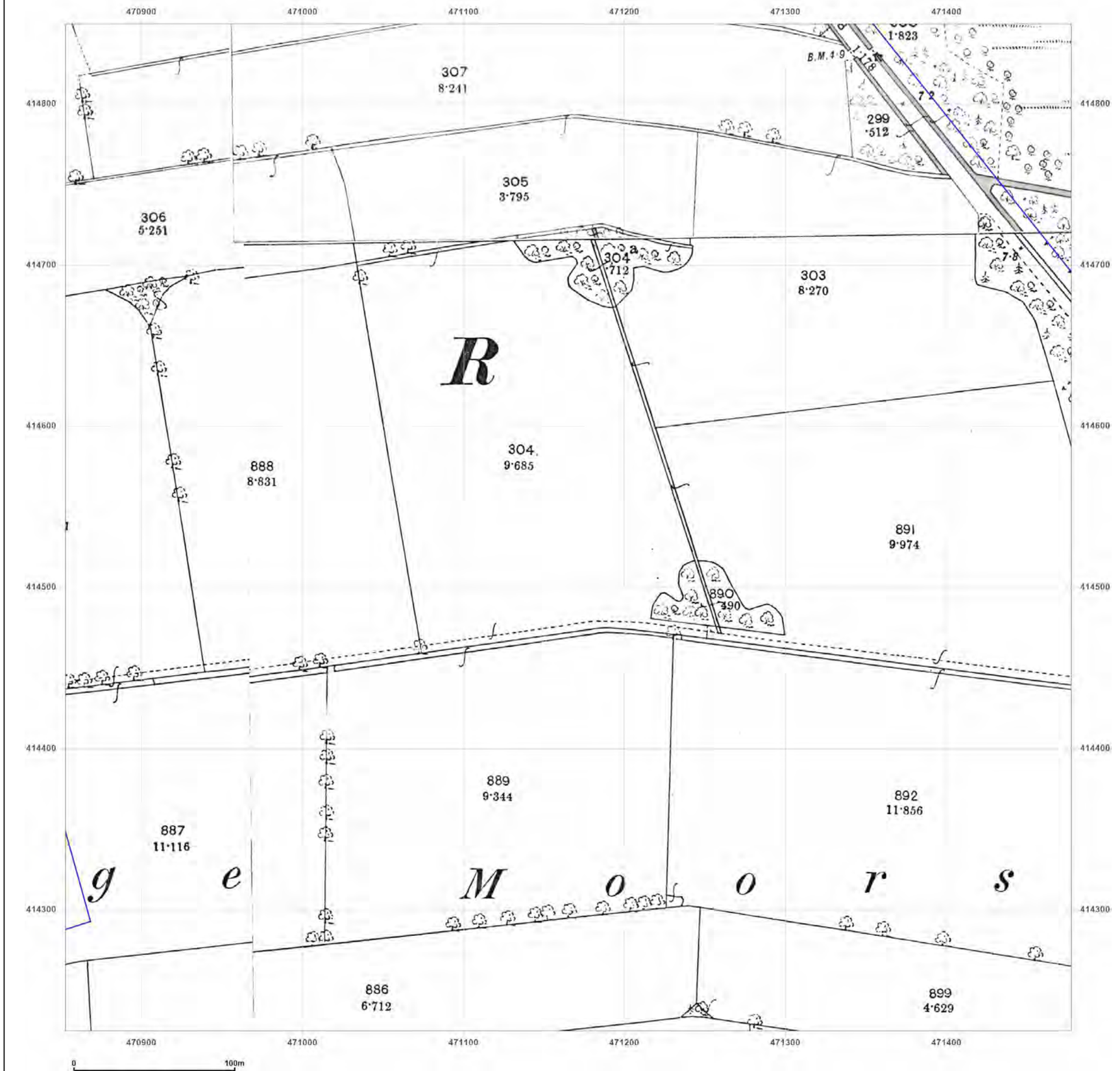
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_10
Grid Ref: 471165, 414537

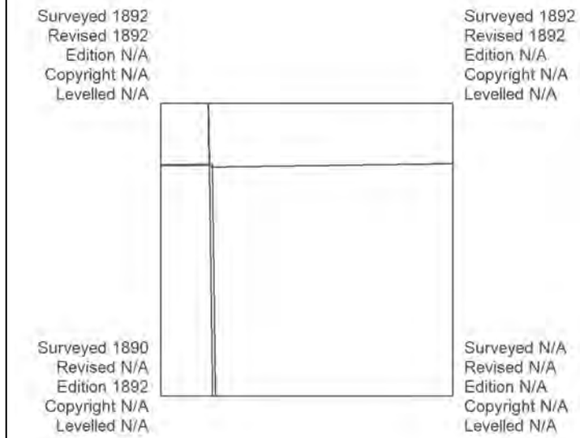
Map Name: County Series

Map date: **1891-1892**

Scale: 1:2,500

Printed at: 1:2,500

N
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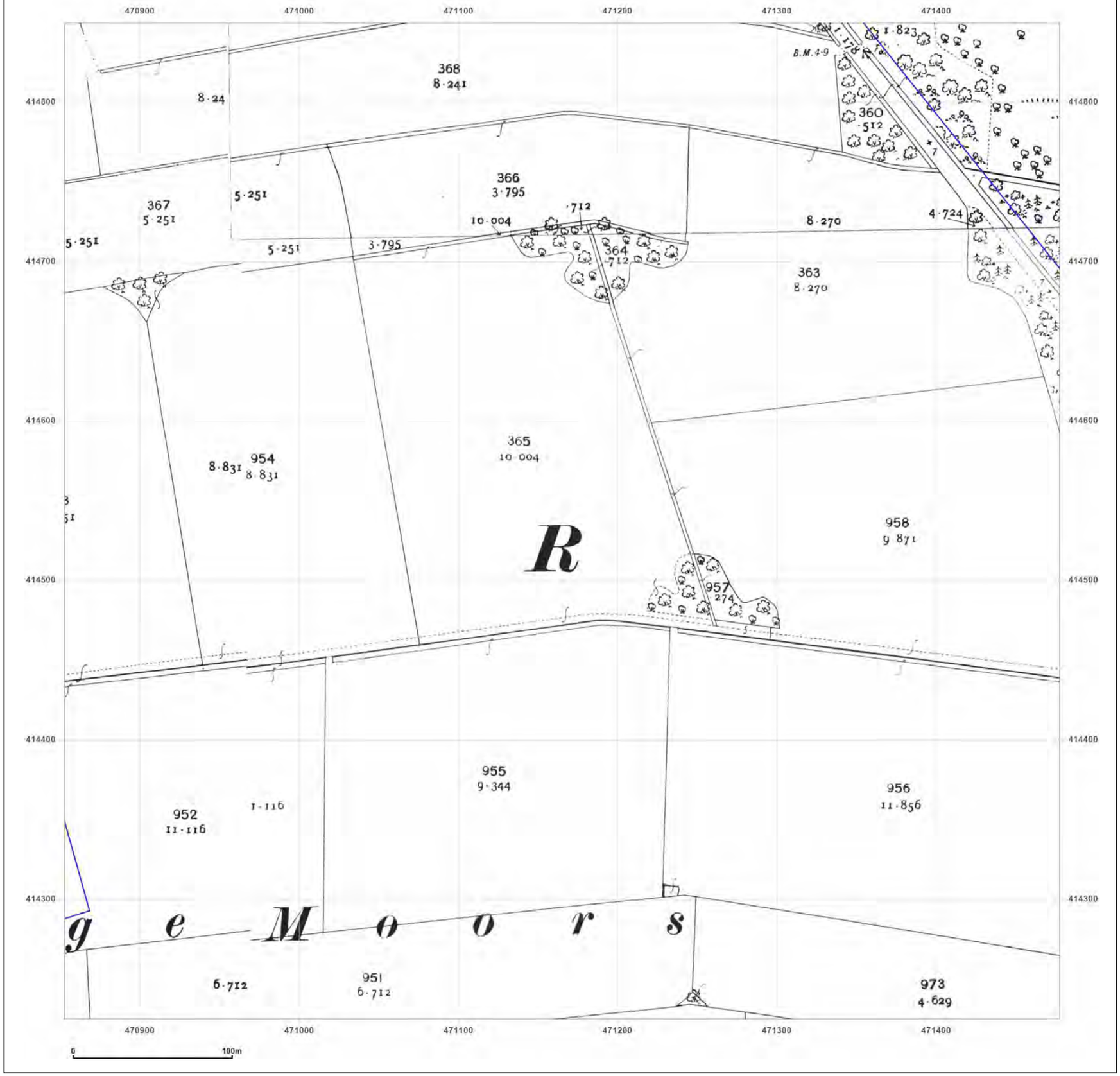
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Production date: 03 March 2023

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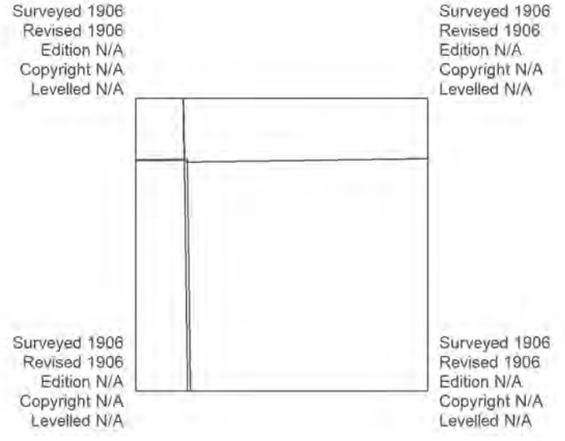
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_10
Grid Ref: 471165, 414537

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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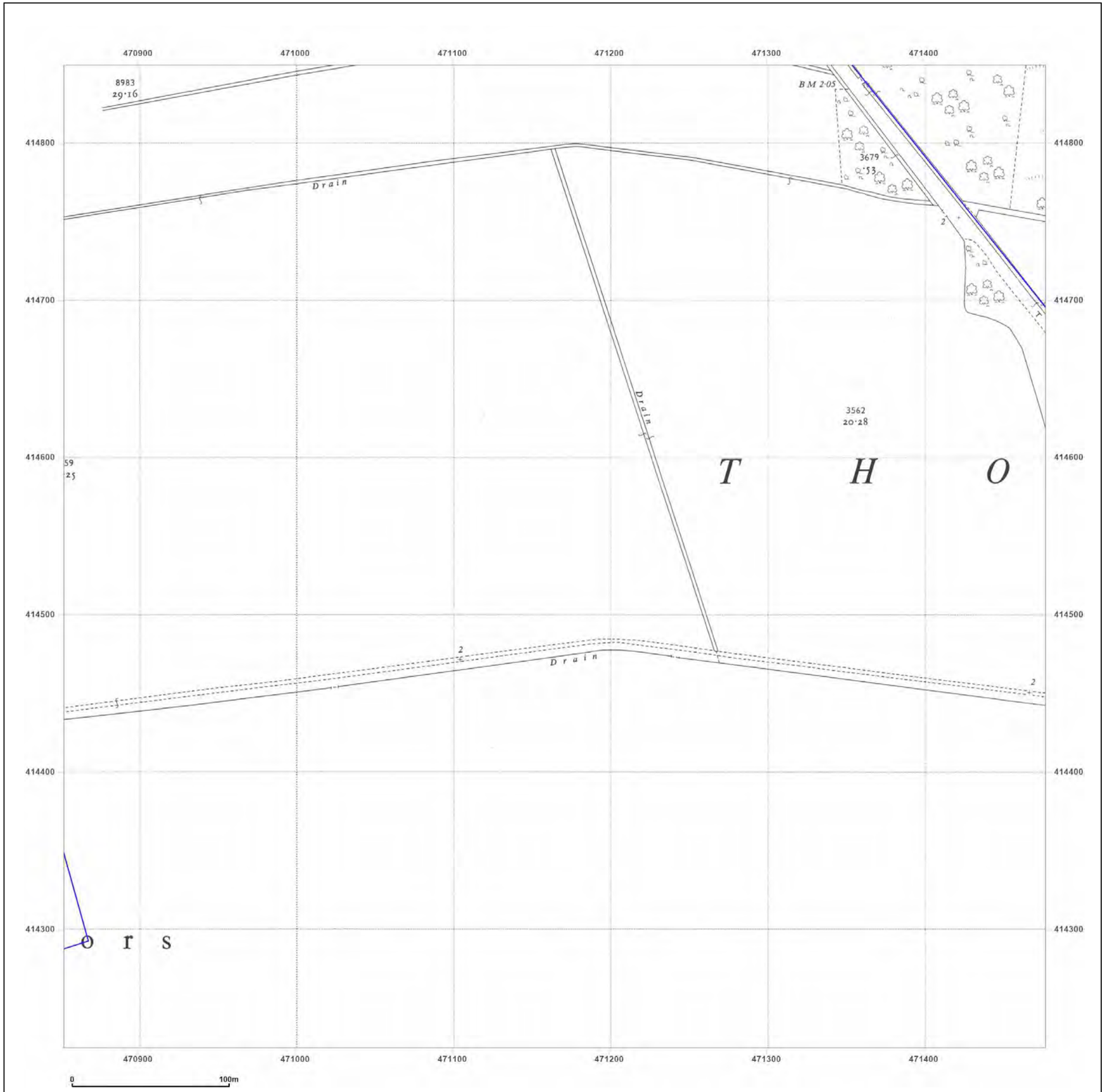
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_10
Grid Ref: 471165, 414537

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

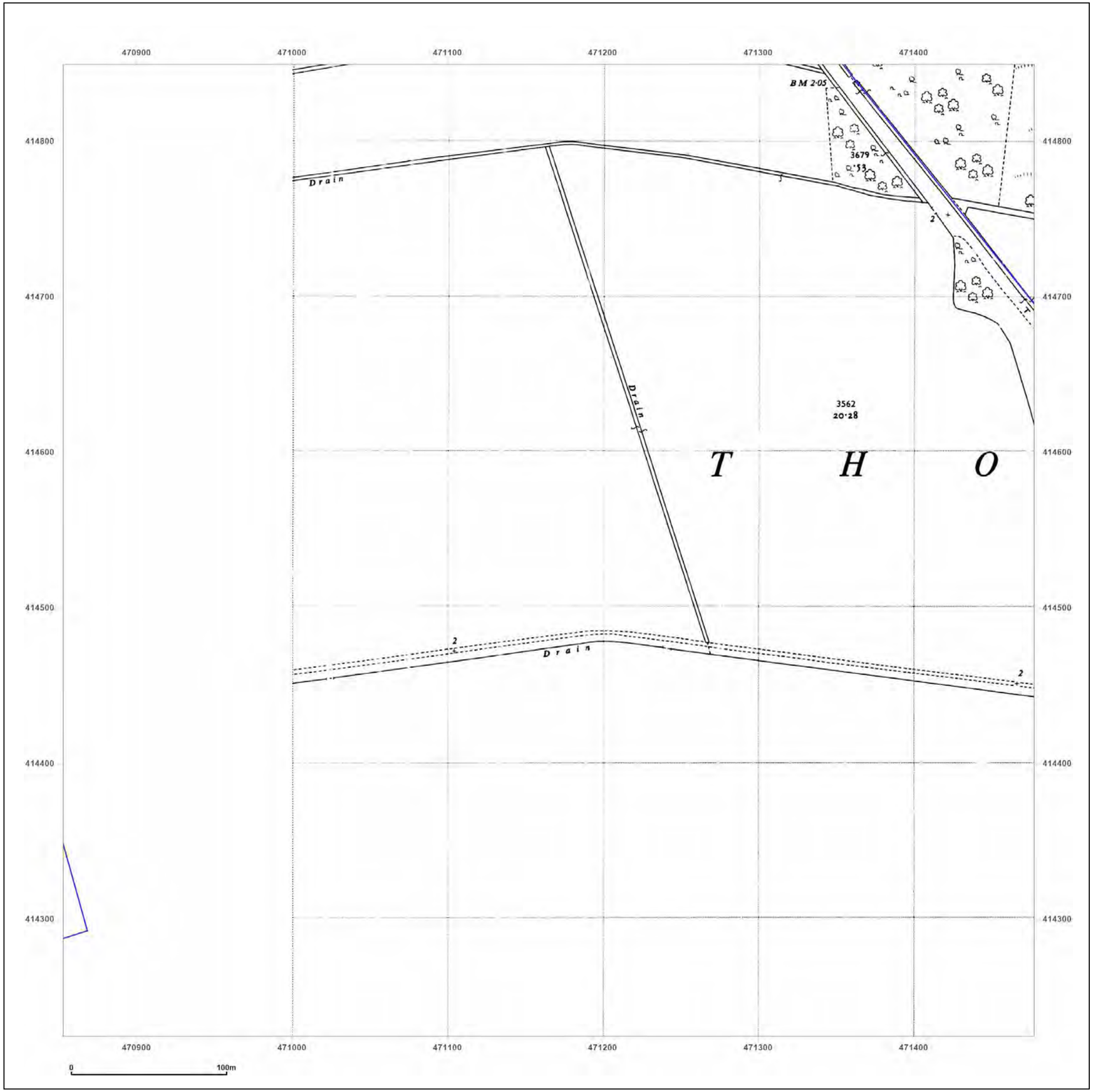
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_10
Grid Ref: 471165, 414537

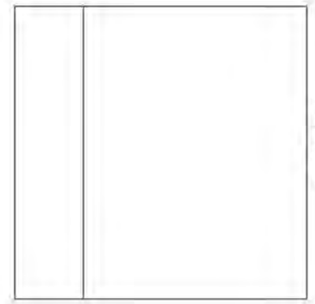
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

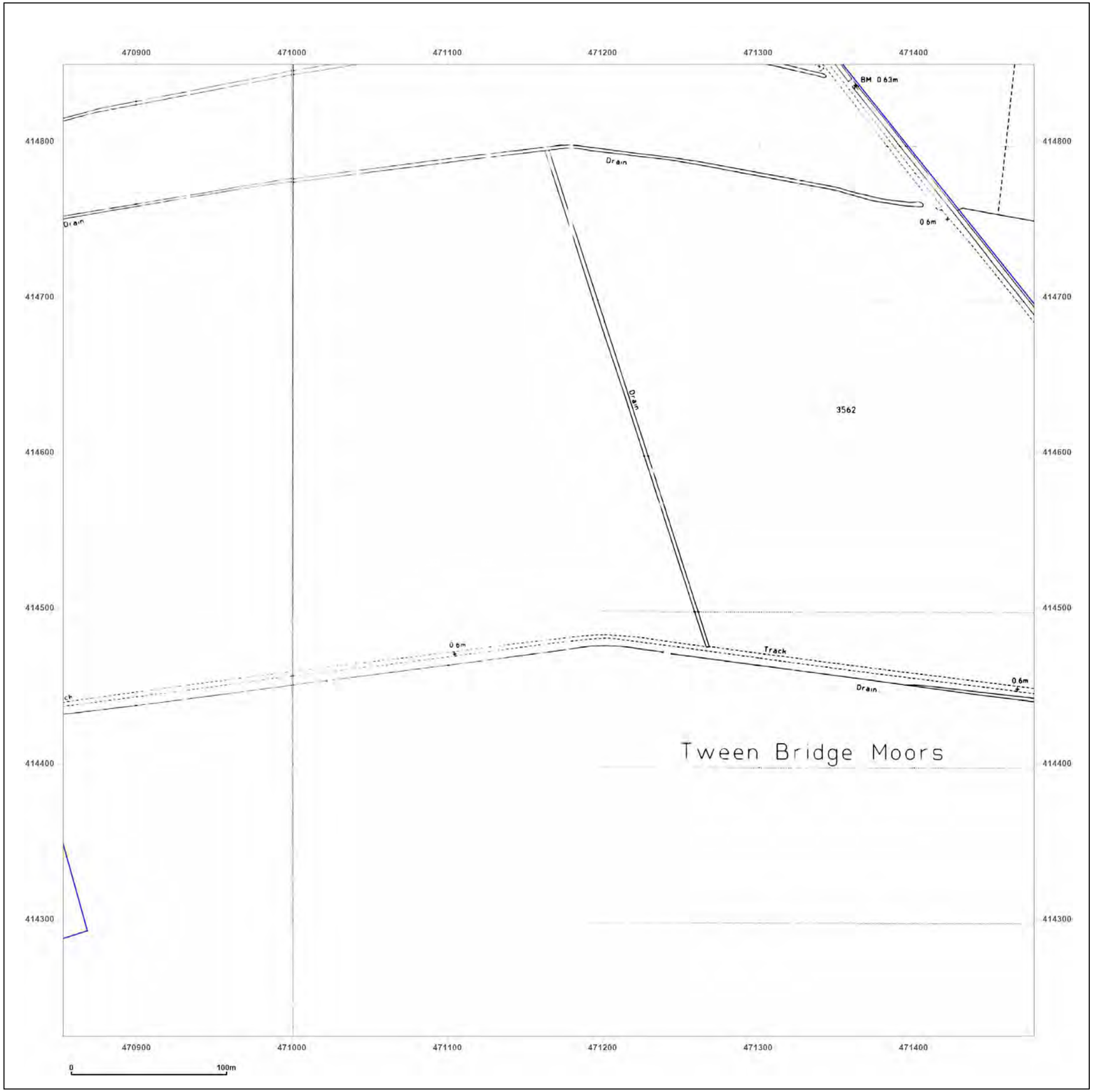
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_10
Grid Ref: 471165, 414537

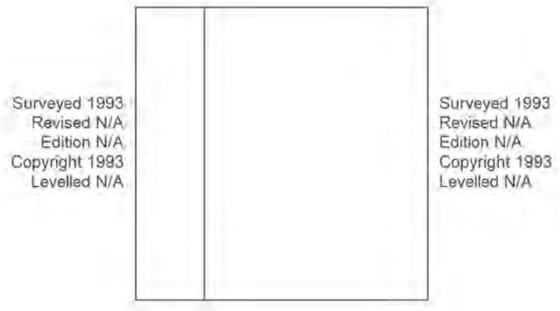
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



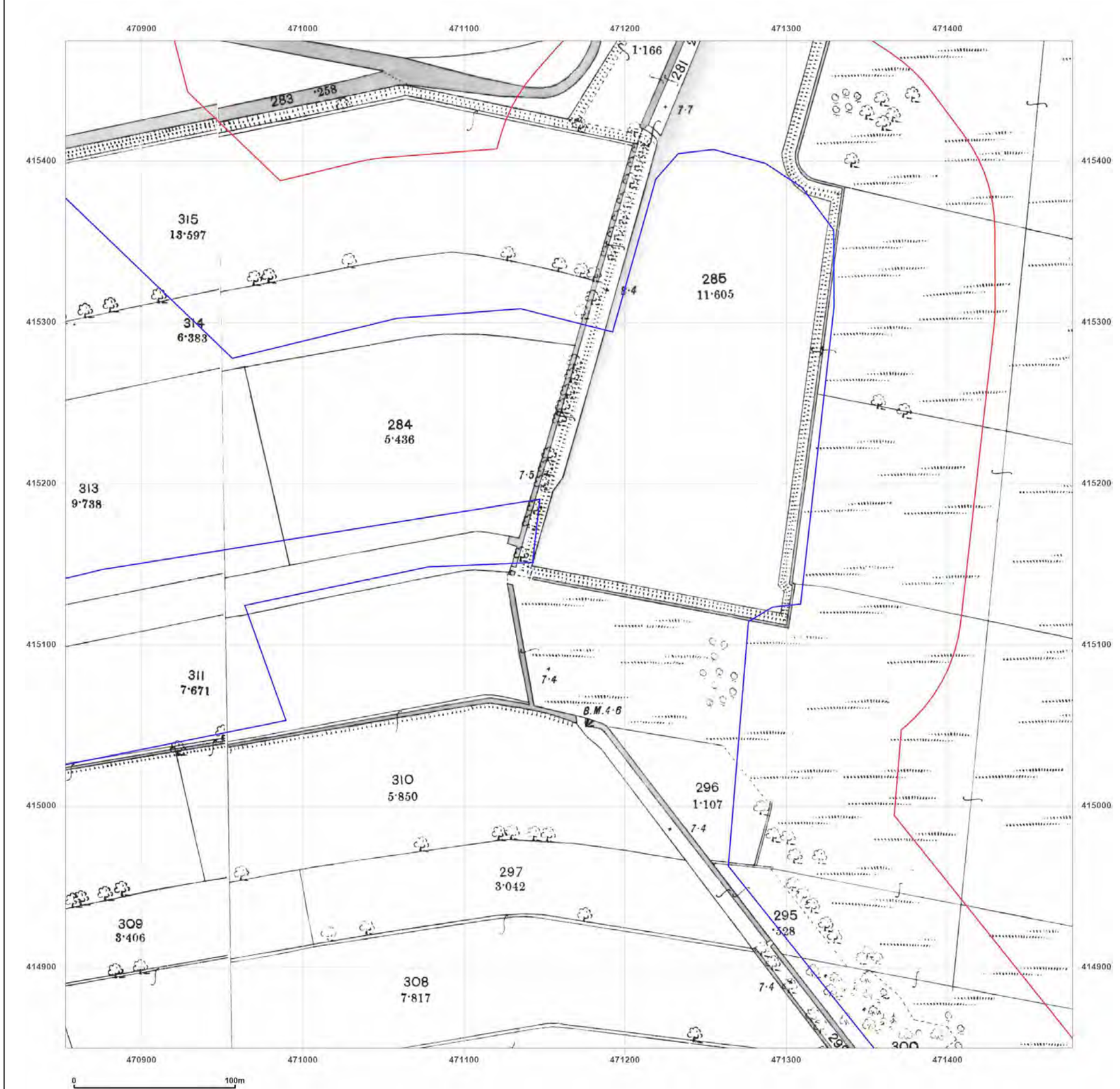
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Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_11
Grid Ref: 471165, 415162

Map Name: County Series

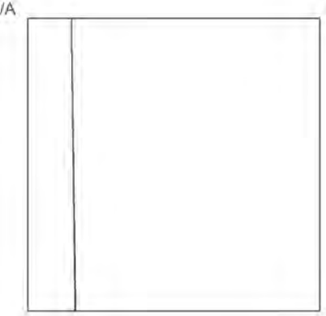
Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

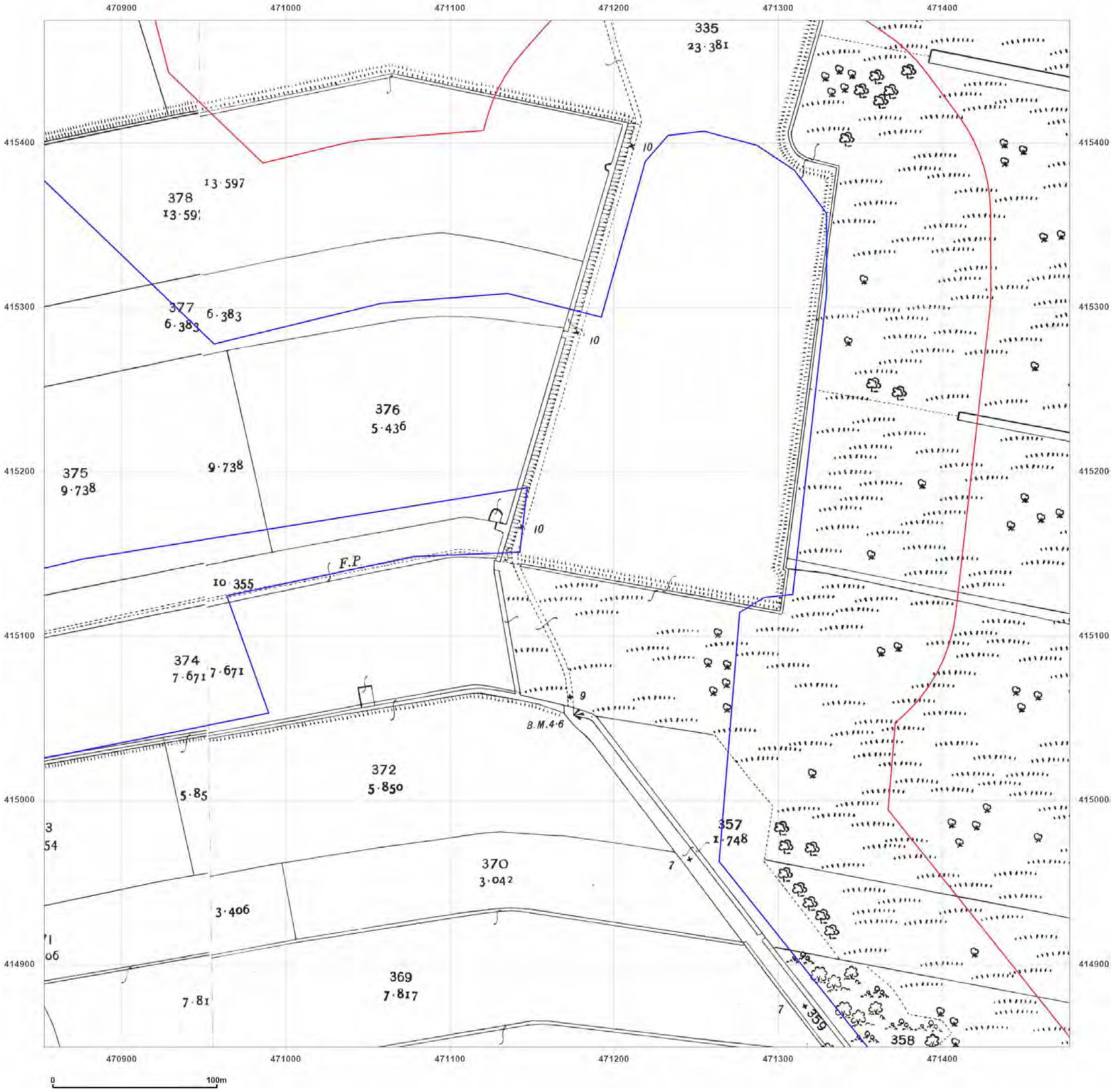
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_11
Grid Ref: 471165, 415162

Map Name: County Series

Map date: **1906**

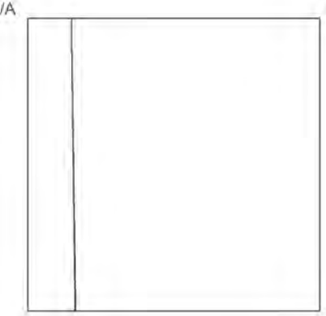
Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A



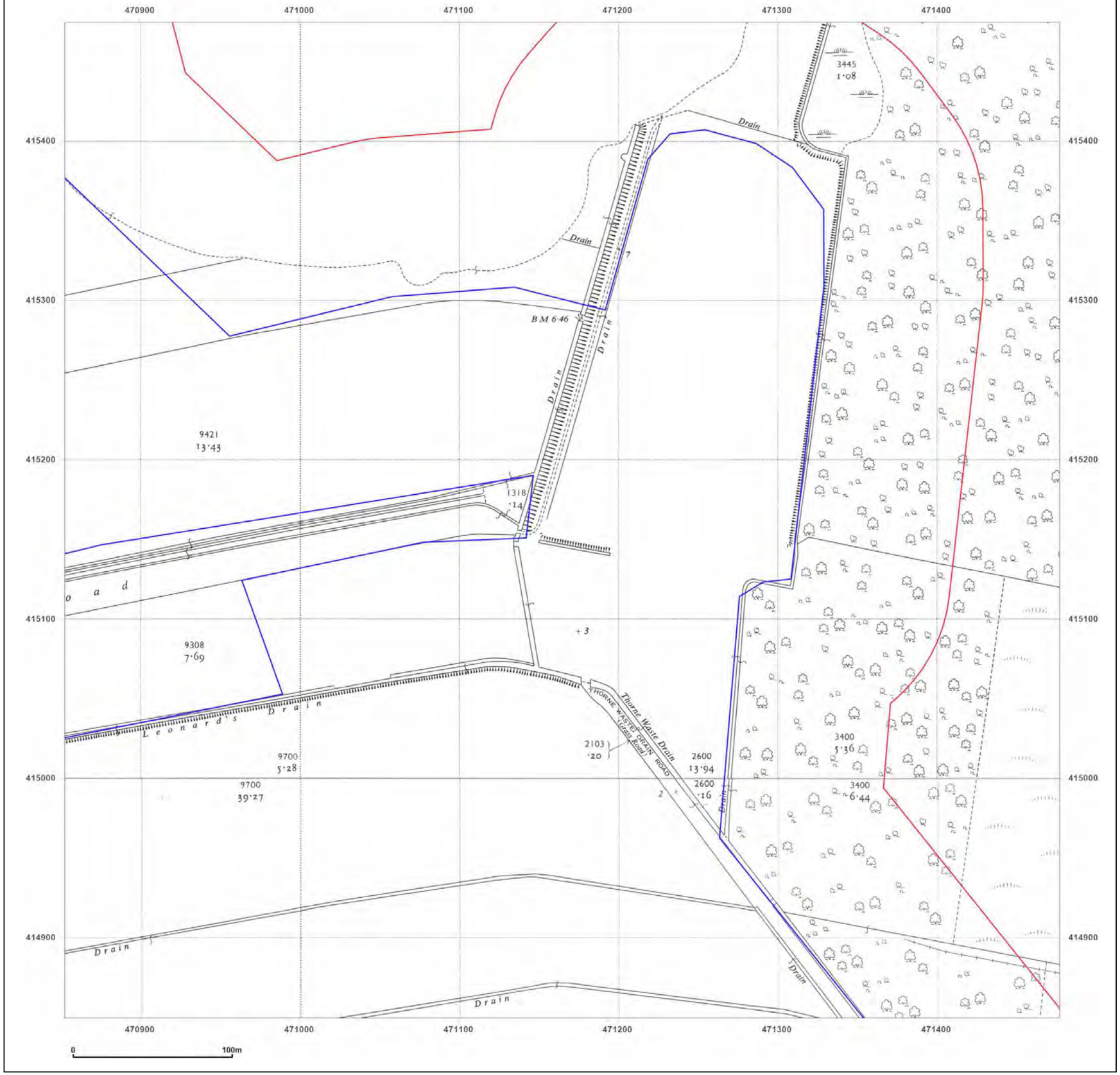
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_11
Grid Ref: 471165, 415162

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

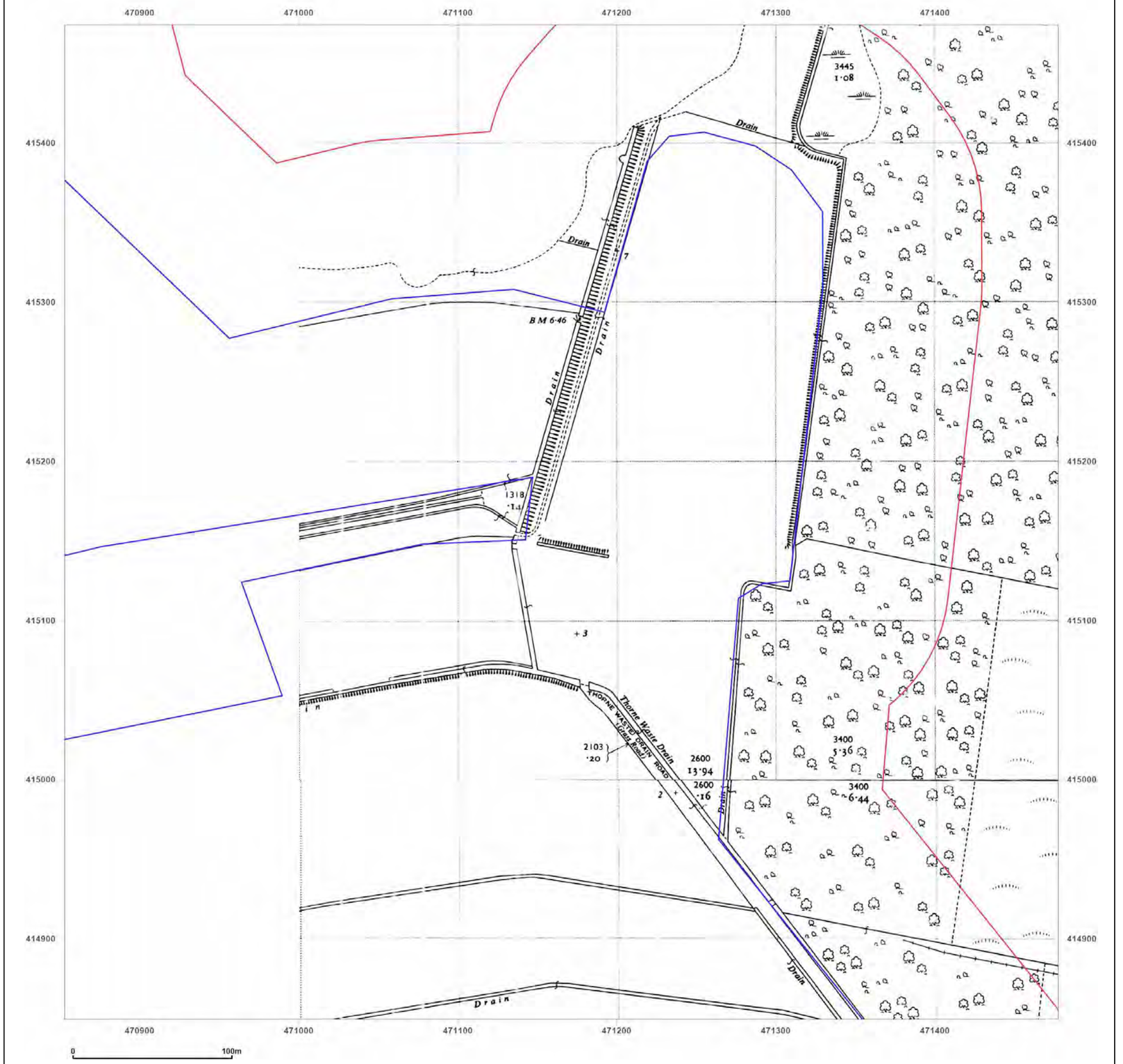
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_11
Grid Ref: 471165, 415162

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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

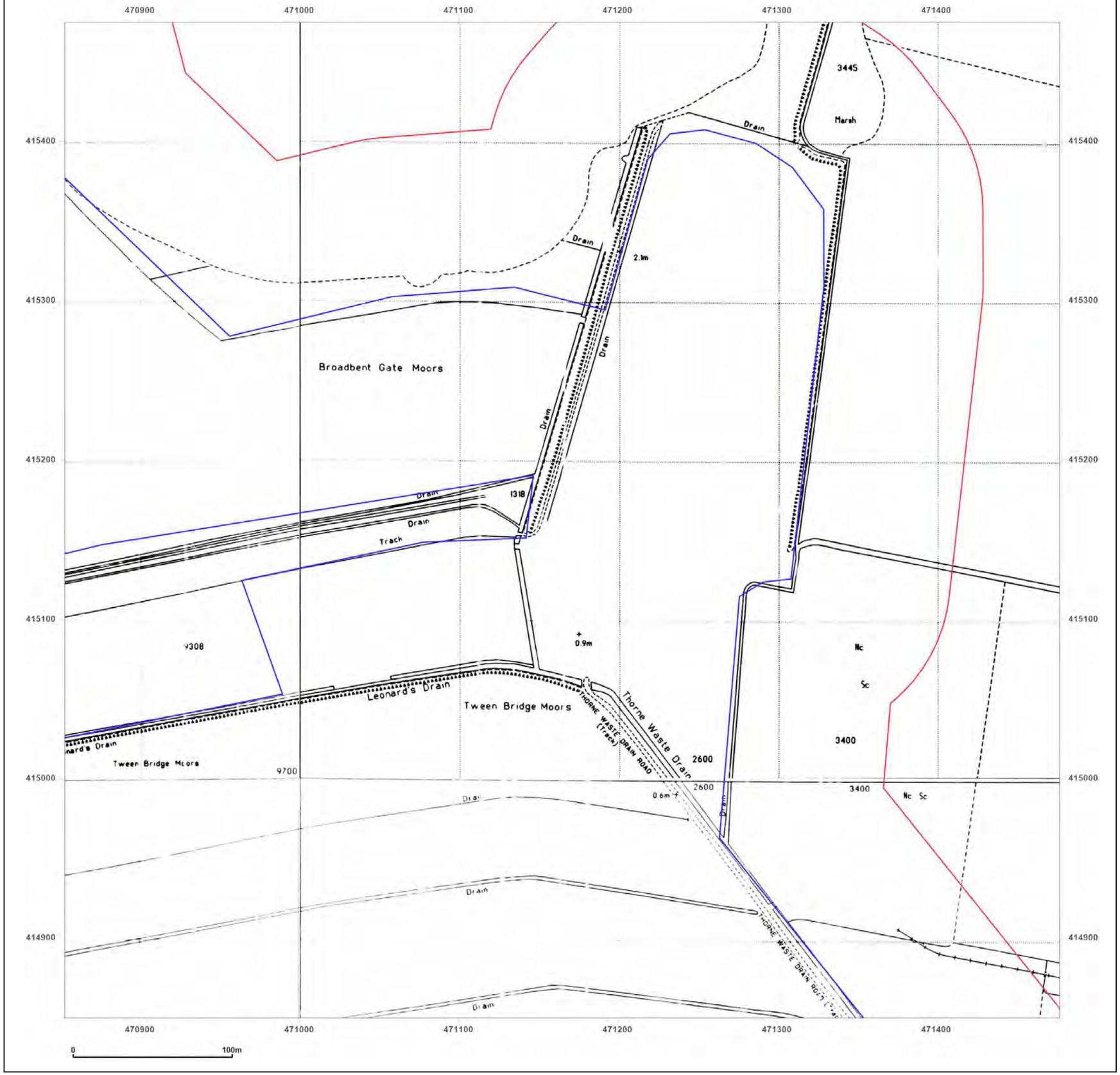
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_11
Grid Ref: 471165, 415162

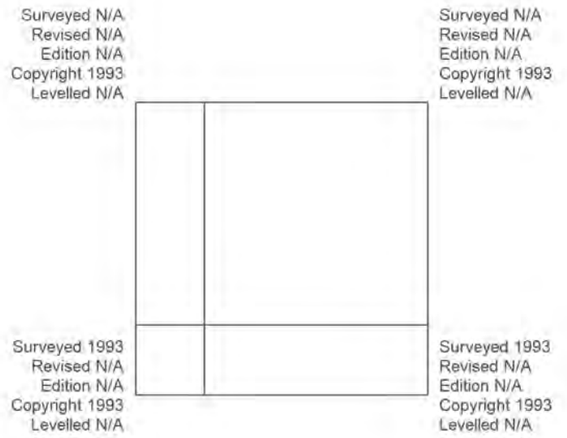
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_12
Grid Ref: 471165, 415787

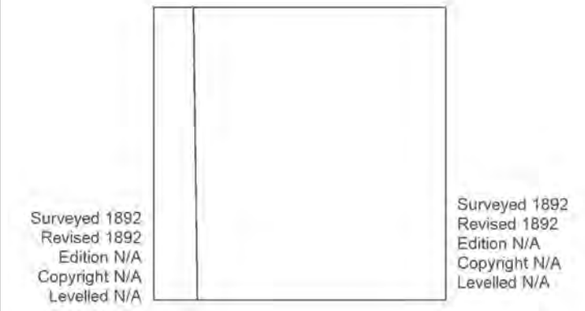
Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

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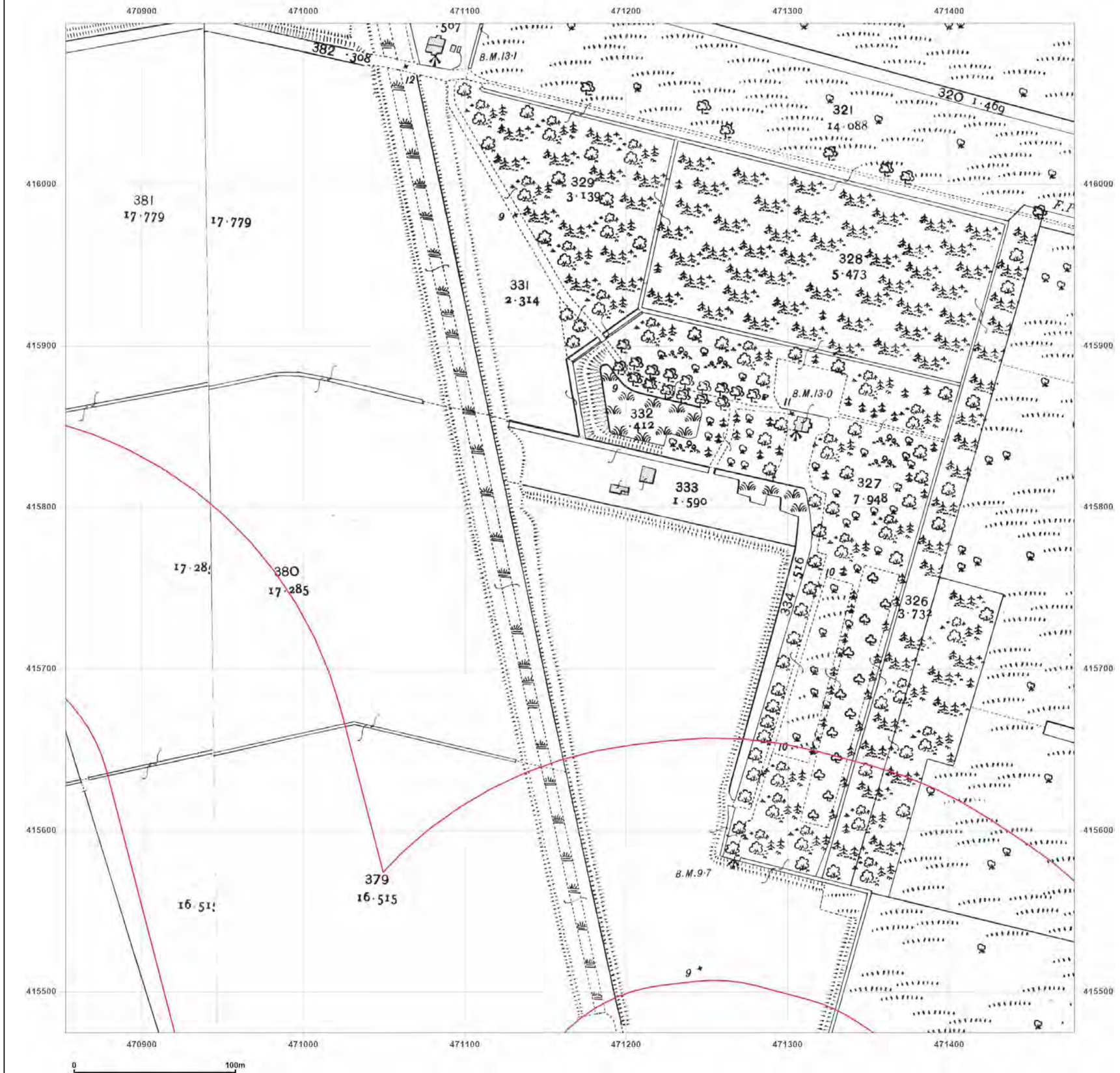
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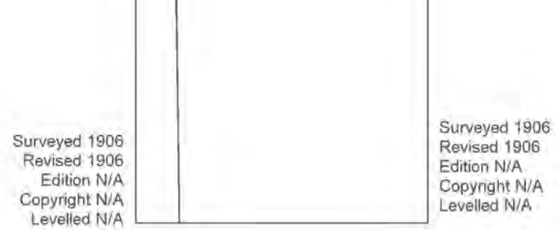
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_12
Grid Ref: 471165, 415787

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_12
Grid Ref: 471165, 415787

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

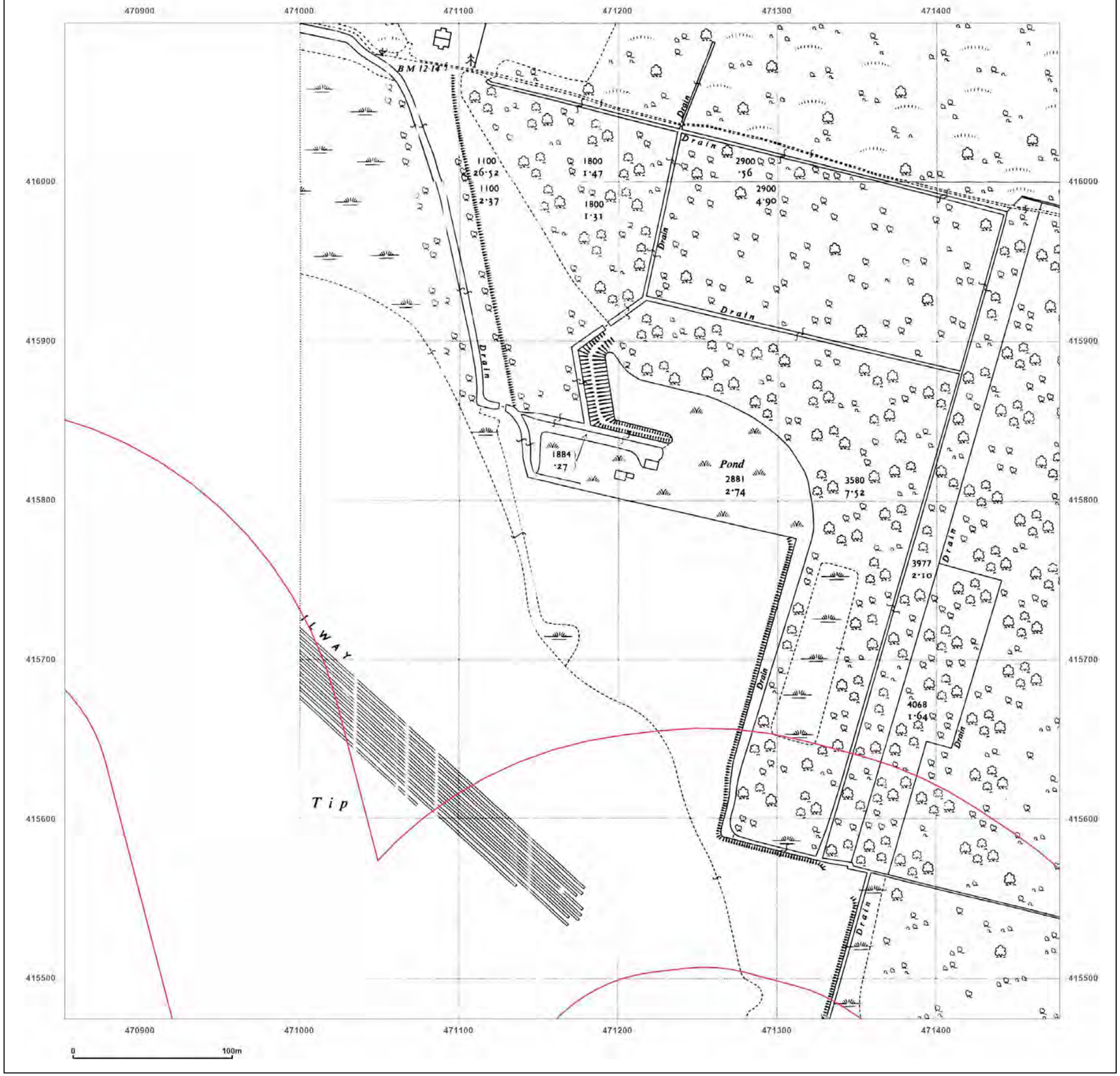
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_12
Grid Ref: 471165, 415787

Map Name: National Grid

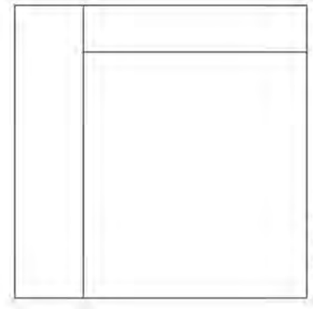
Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

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



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

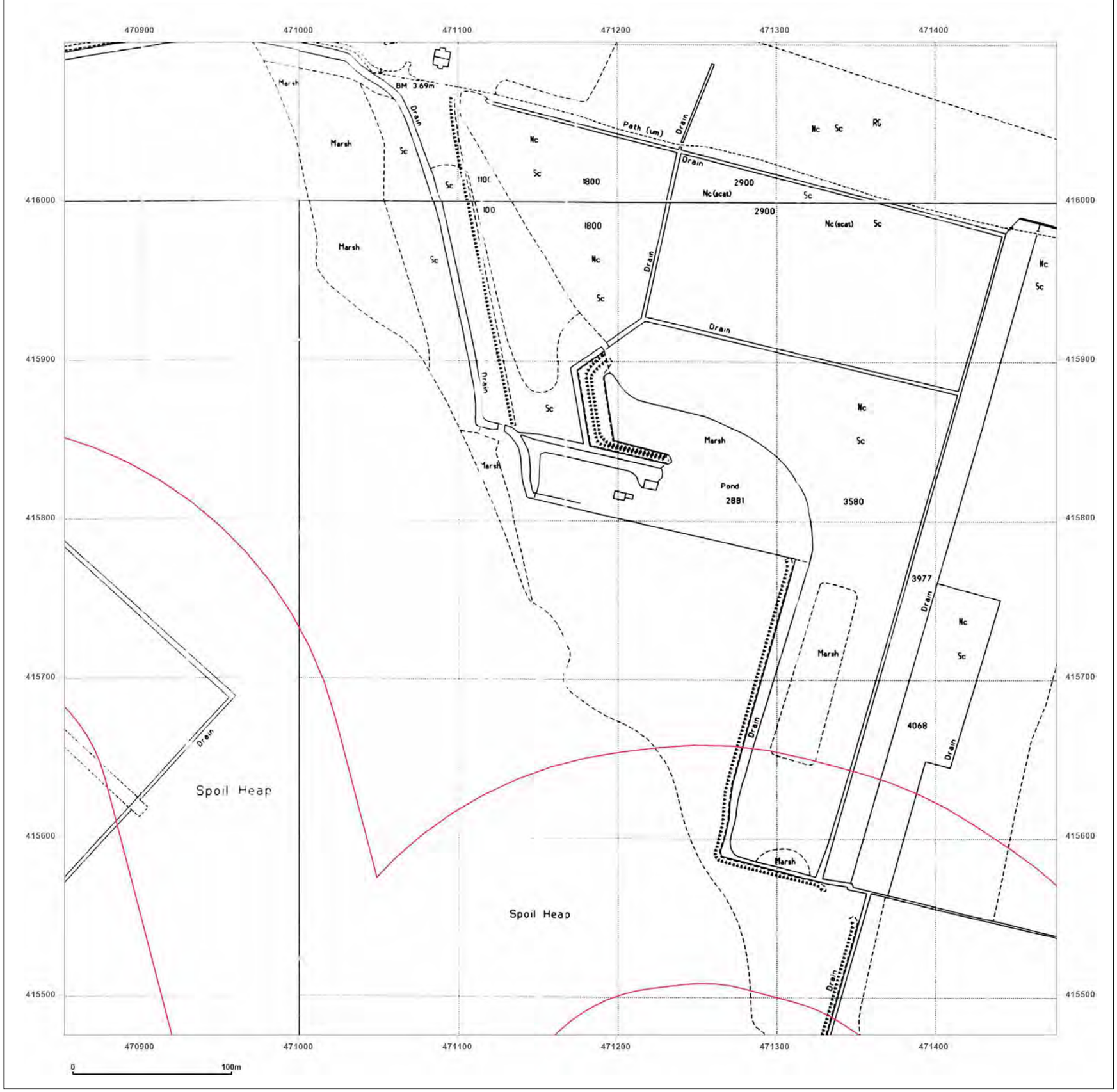
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_5_12
Grid Ref: 471165, 415787

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
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Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

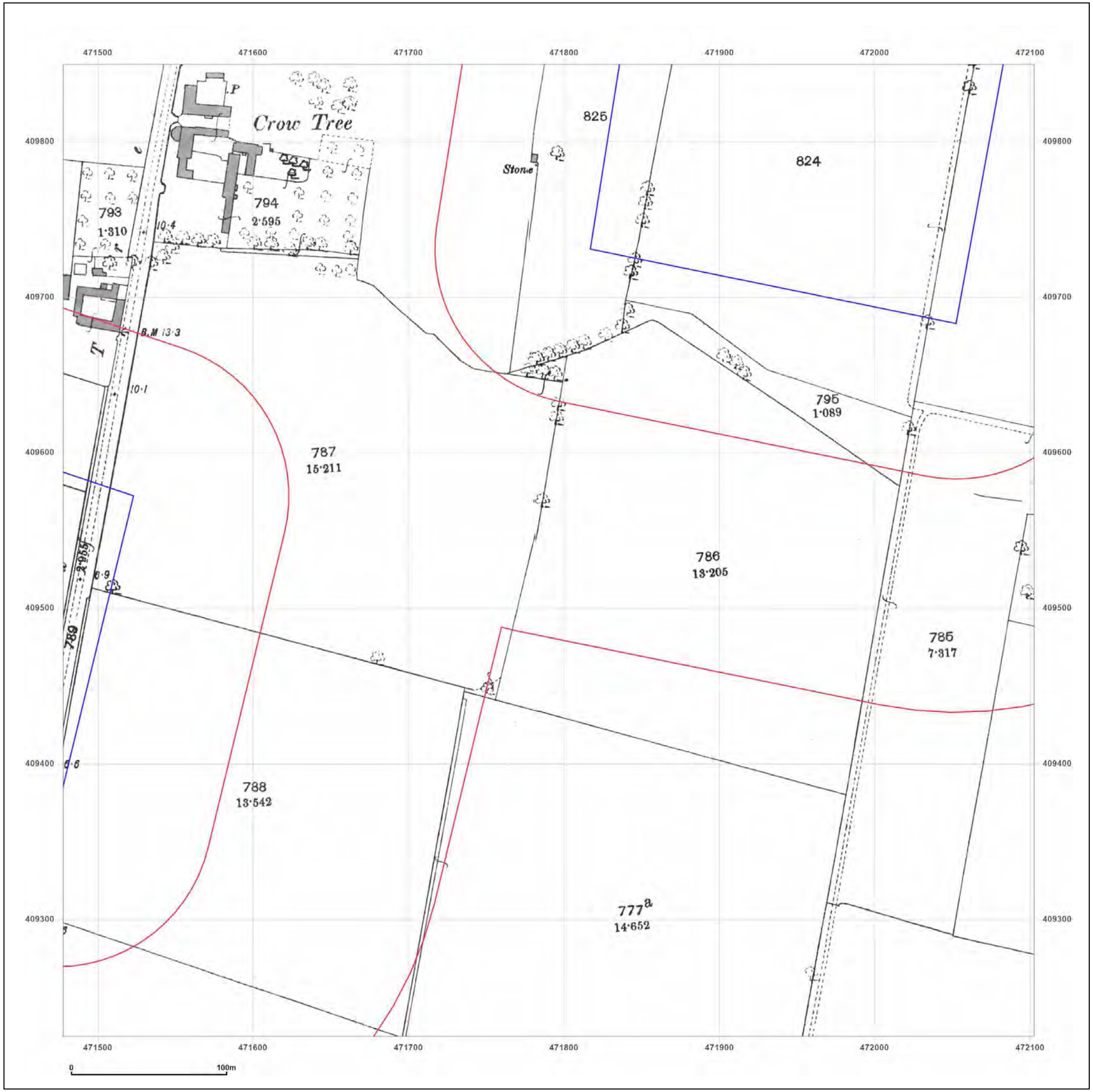
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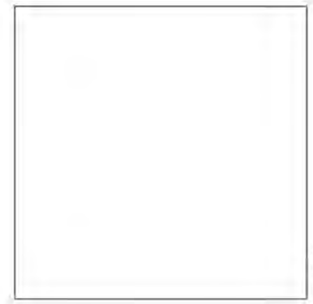
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_2
Grid Ref: 471790, 409537

Map Name: County Series
Map date: **1893**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

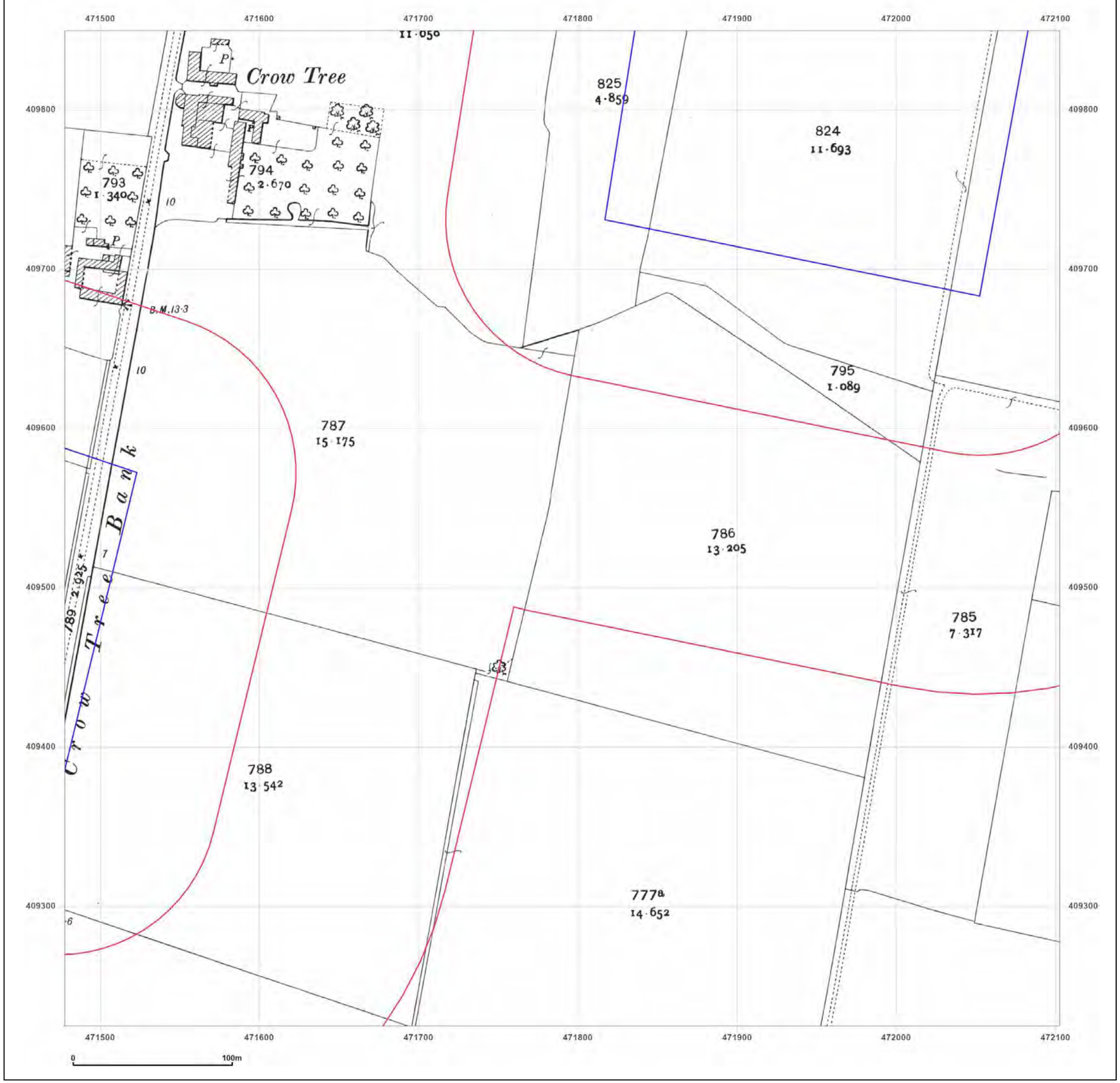
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_2
Grid Ref: 471790, 409537

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
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Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

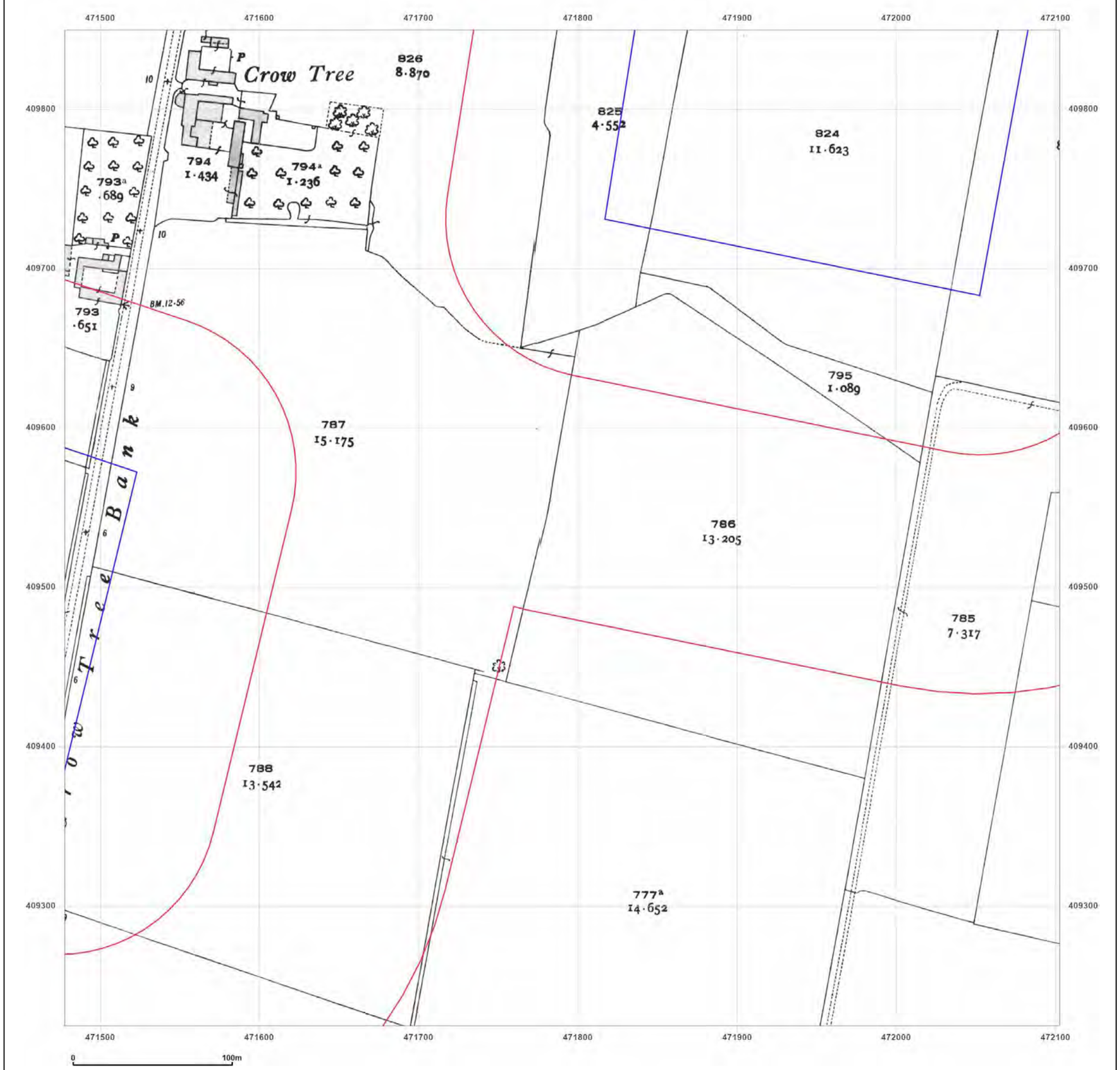
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_2
Grid Ref: 471790, 409537

Map Name: County Series

Map date: **1931**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1931
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_2
Grid Ref: 471790, 409537

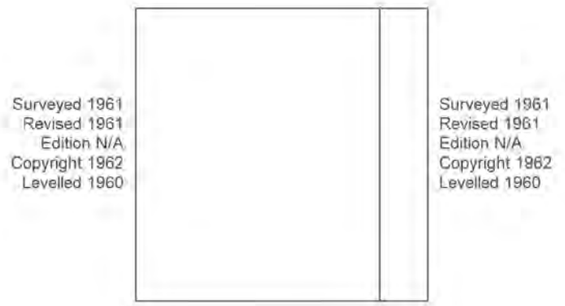
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_2
Grid Ref: 471790, 409537

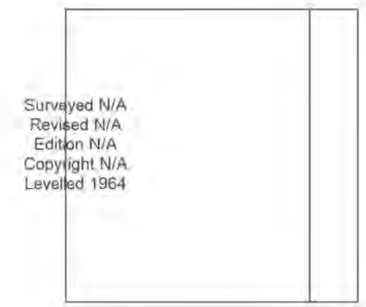
Map Name: National Grid

Map date: **1964**

Scale: 1:2,500

Printed at: 1:2,500

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_2
Grid Ref: 471790, 409537

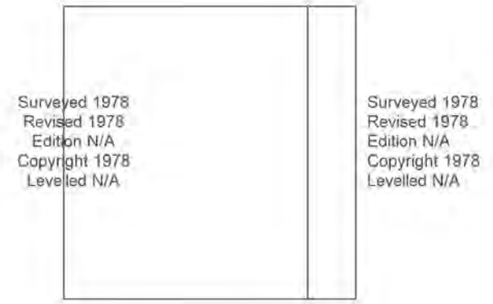
Map Name: National Grid

Map date: **1978**

Scale: 1:2,500

Printed at: 1:2,500

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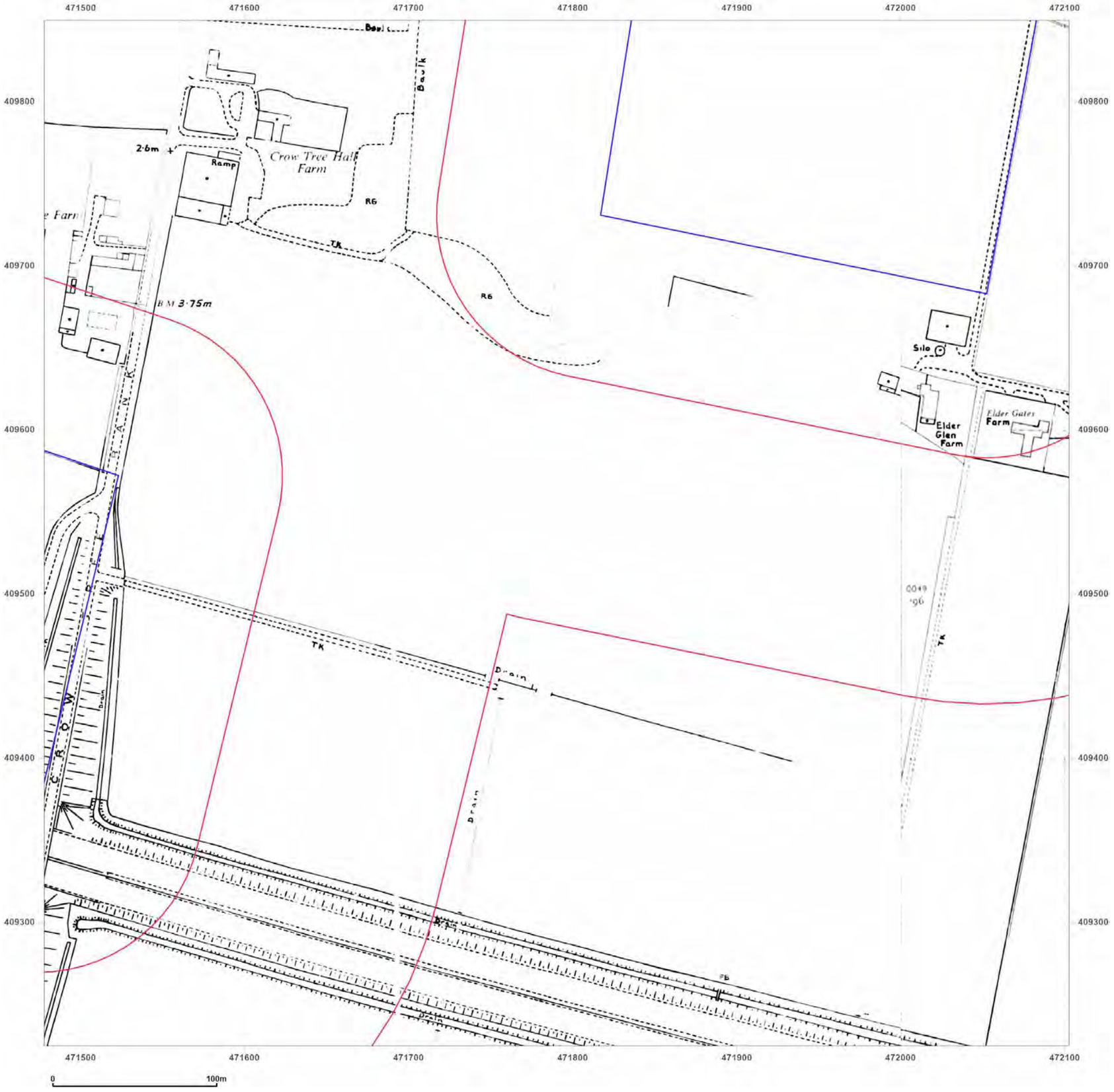
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_2
Grid Ref: 471790, 409537

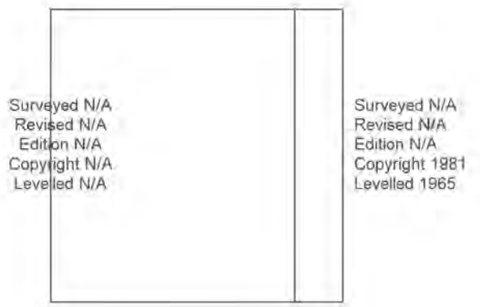
Map Name: National Grid

Map date: **1981**

Scale: 1:2,500

Printed at: 1:2,500

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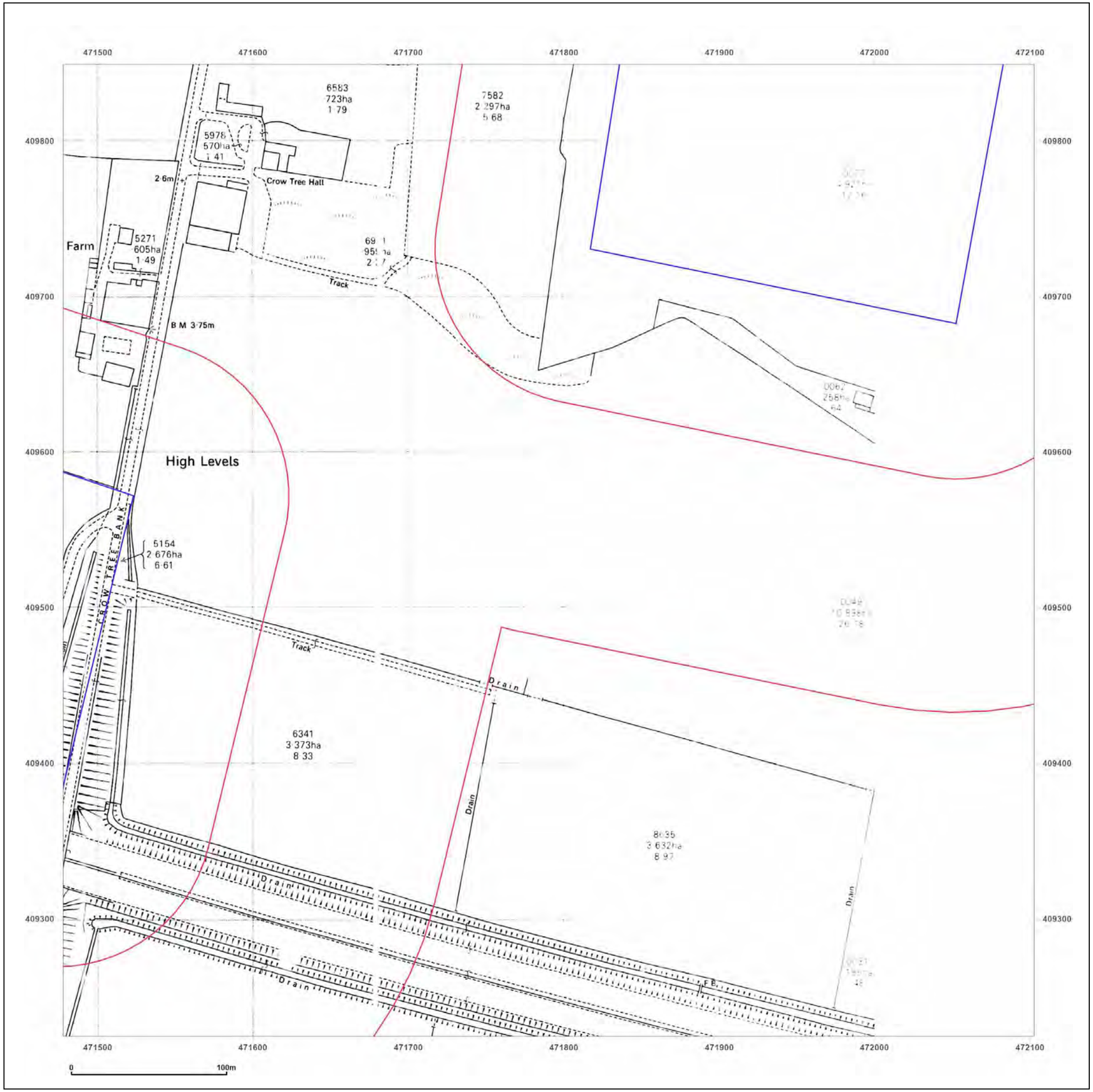
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_2
Grid Ref: 471790, 409537

Map Name: National Grid

Map date: **1985**

Scale: 1:2,500

Printed at: 1:2,500

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

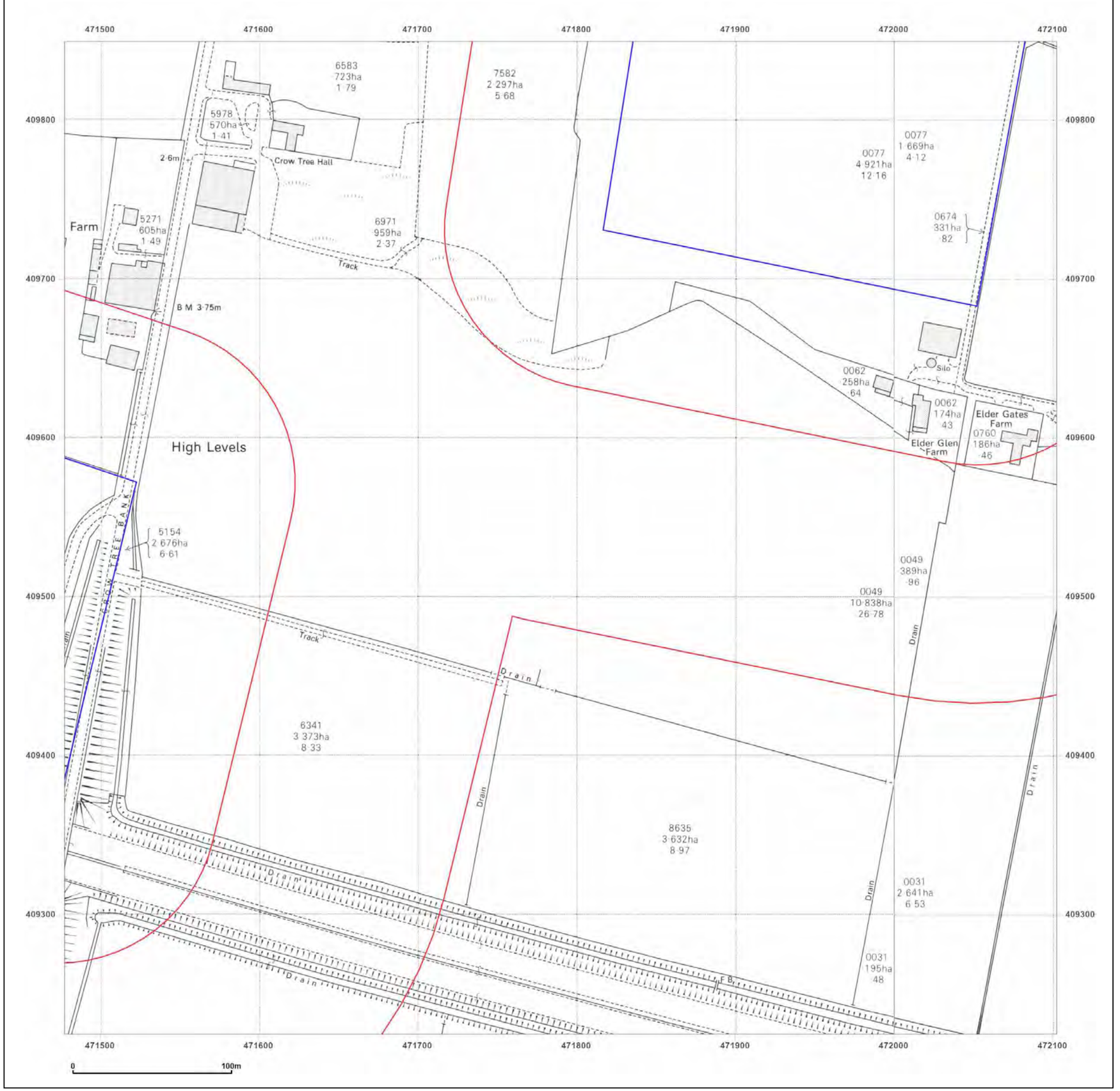
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_2
Grid Ref: 471790, 409537

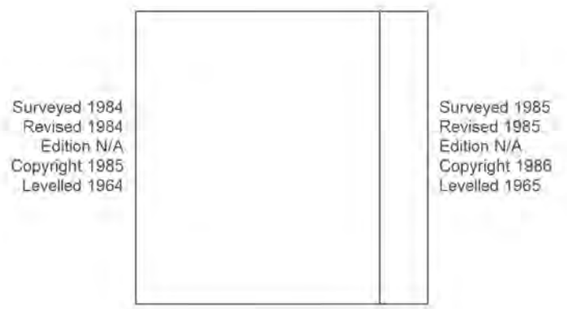
Map Name: National Grid

Map date: **1985-1986**

Scale: 1:2,500

Printed at: 1:2,500

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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_2
Grid Ref: 471790, 409537

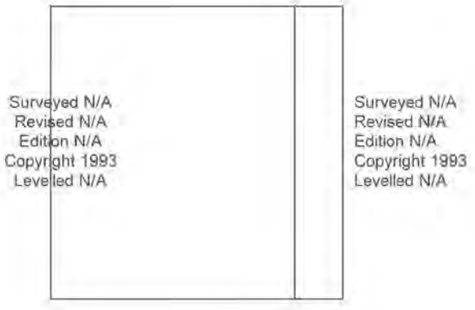
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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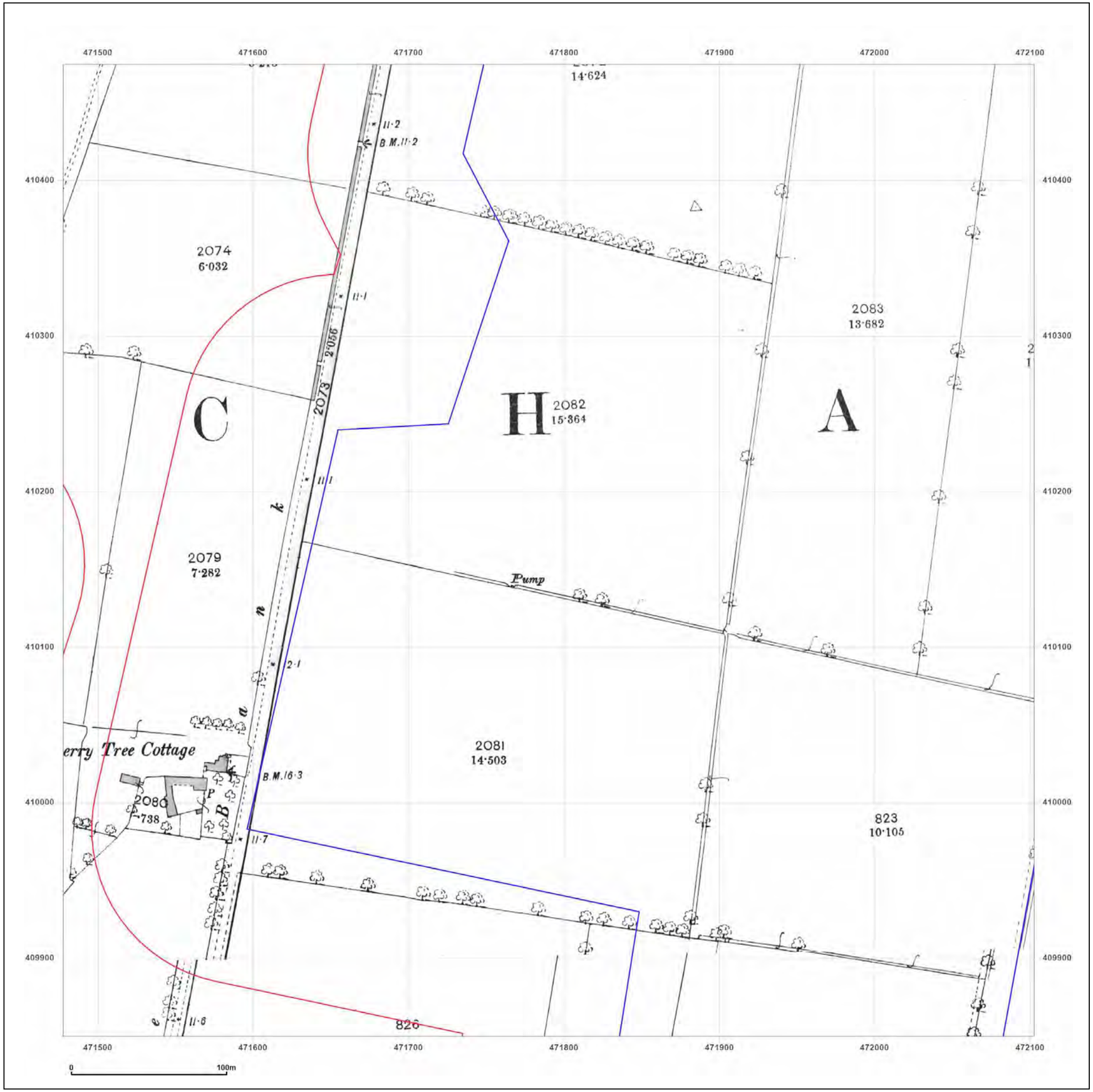
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_3
Grid Ref: 471790, 410162

Map Name: County Series

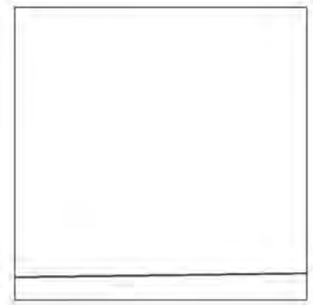
Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

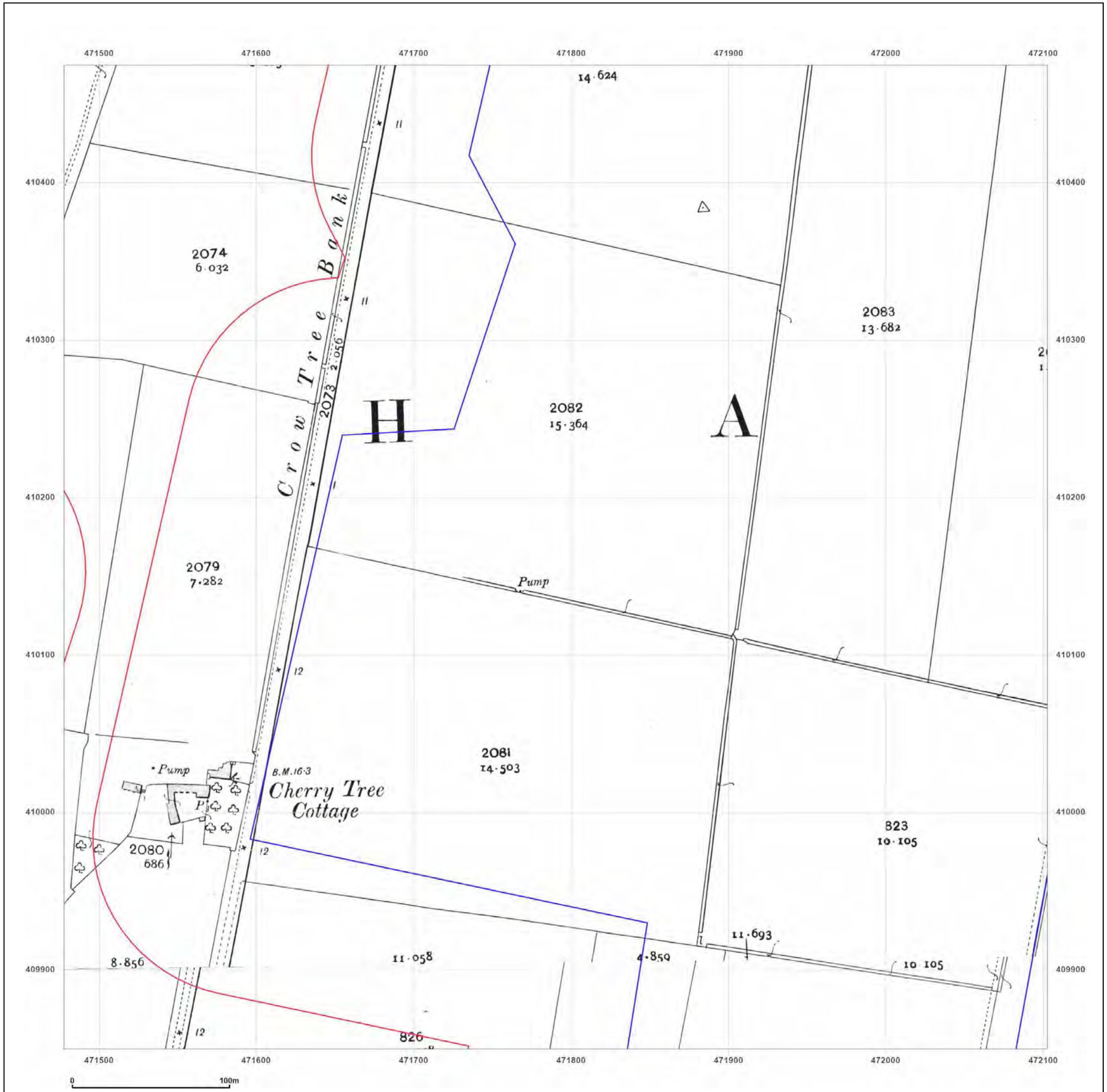
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Production date: 03 March 2023

Map legend available at:
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_3
Grid Ref: 471790, 410162

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

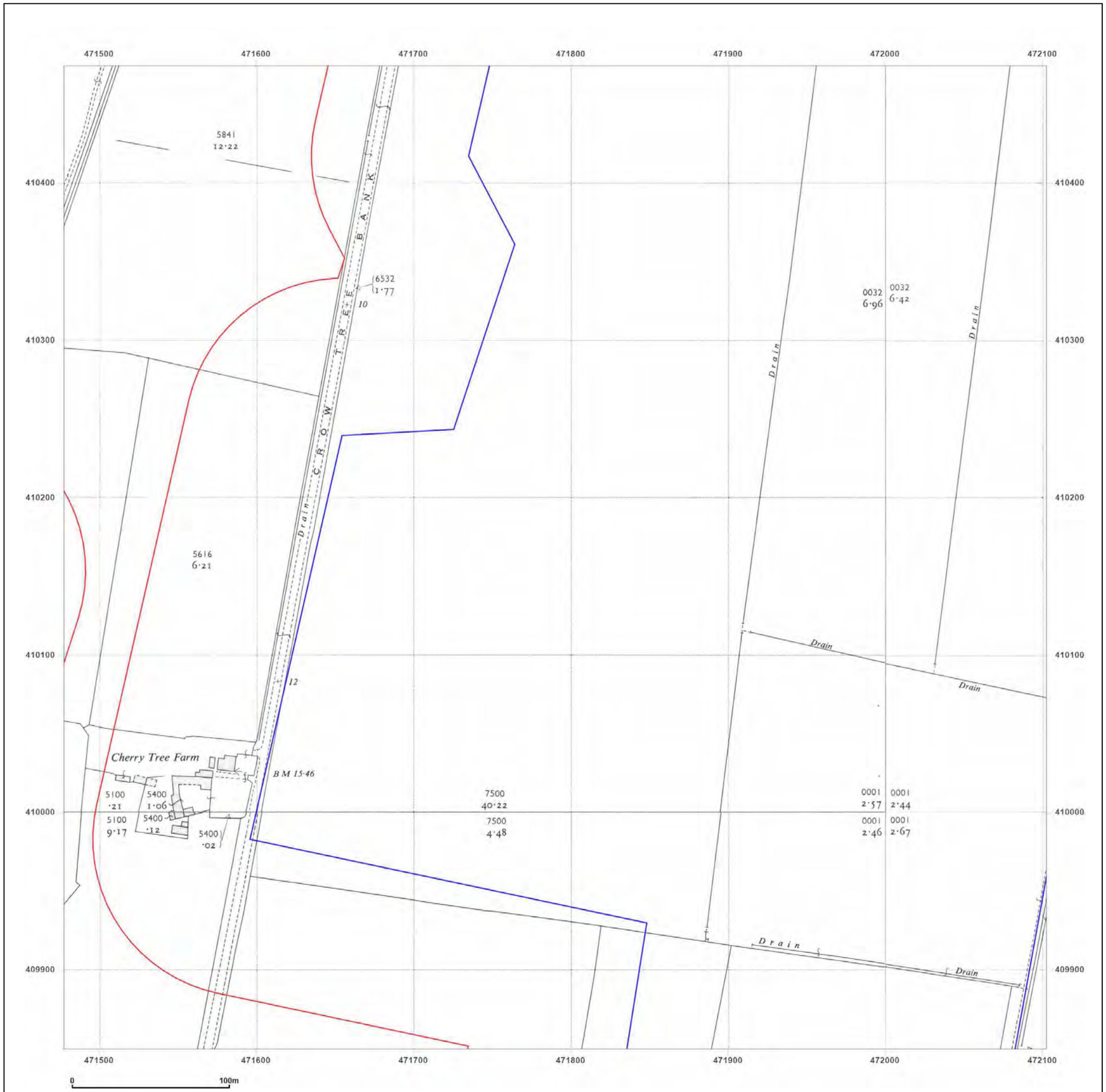
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_3
Grid Ref: 471790, 410162

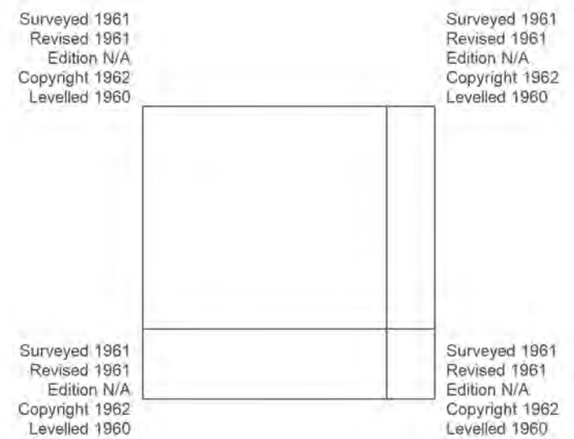
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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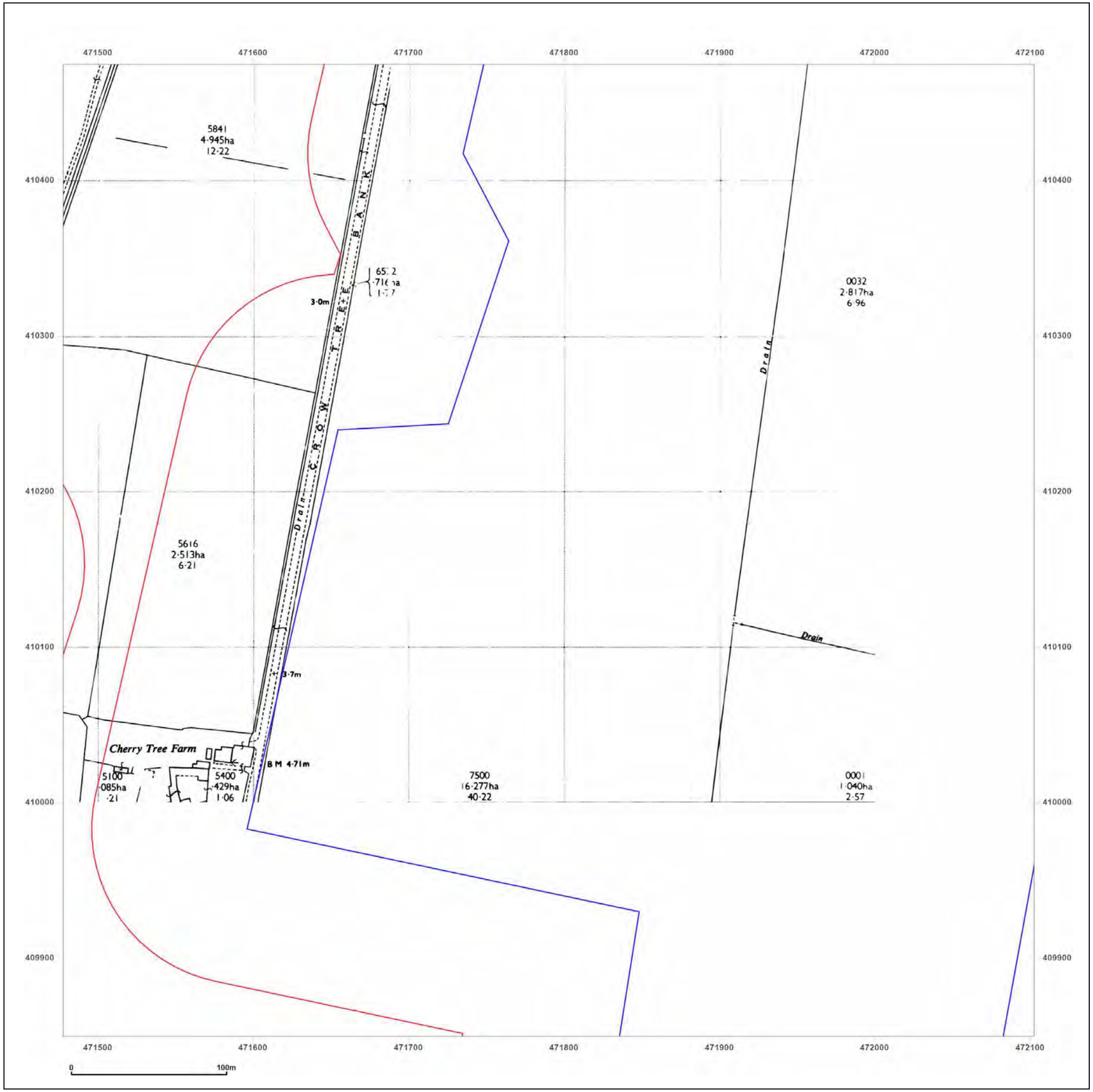
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_3
Grid Ref: 471790, 410162

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



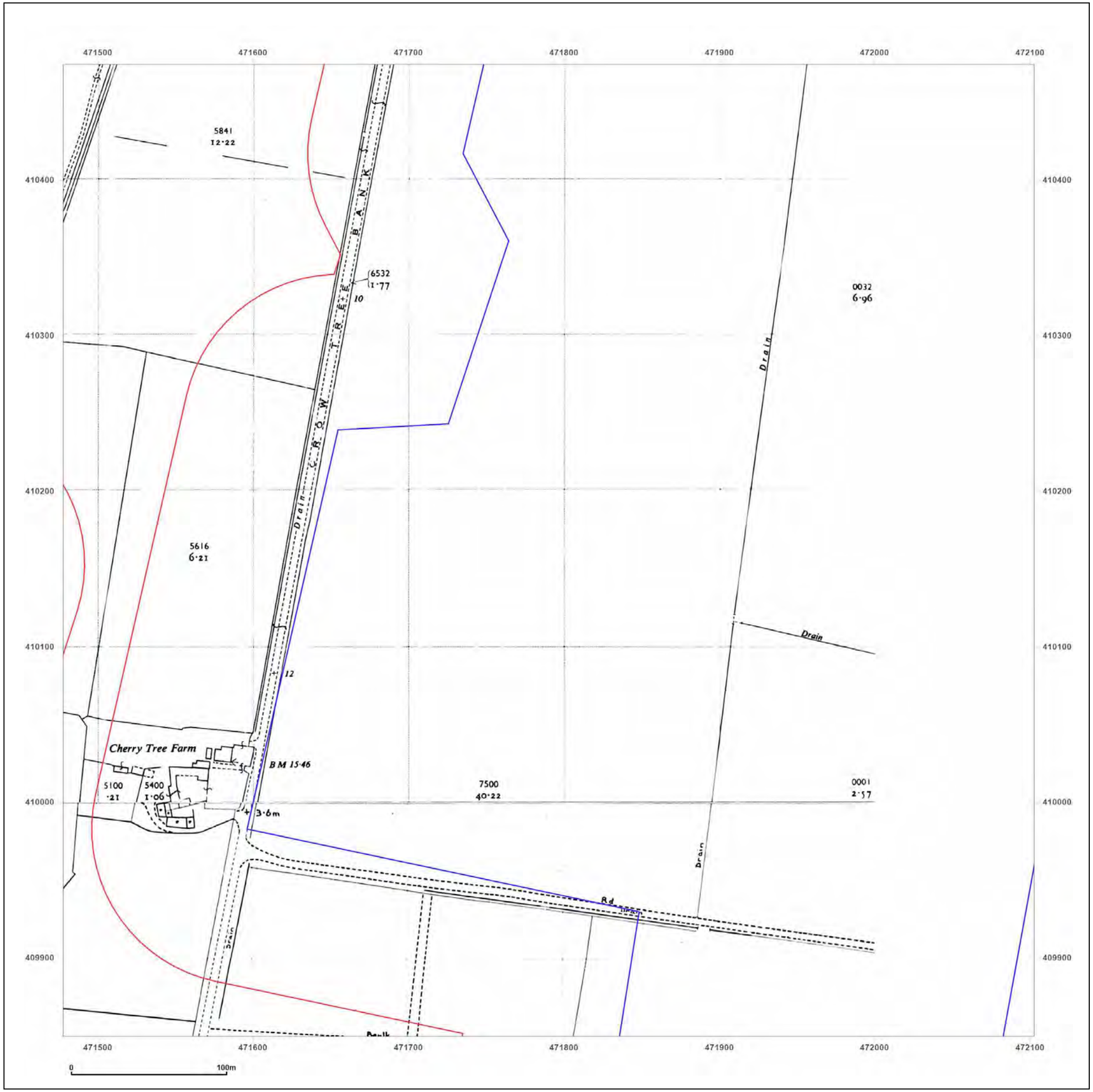
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_3
Grid Ref: 471790, 410162

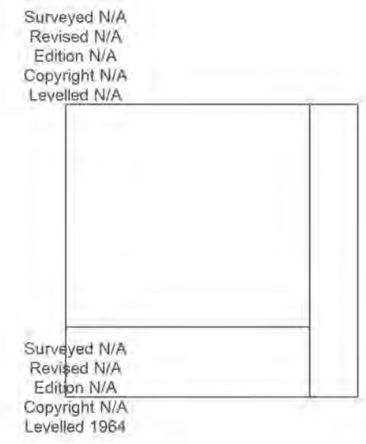
Map Name: National Grid

Map date: **1962-1964**

Scale: 1:2,500

Printed at: 1:2,500

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_3
Grid Ref: 471790, 410162

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

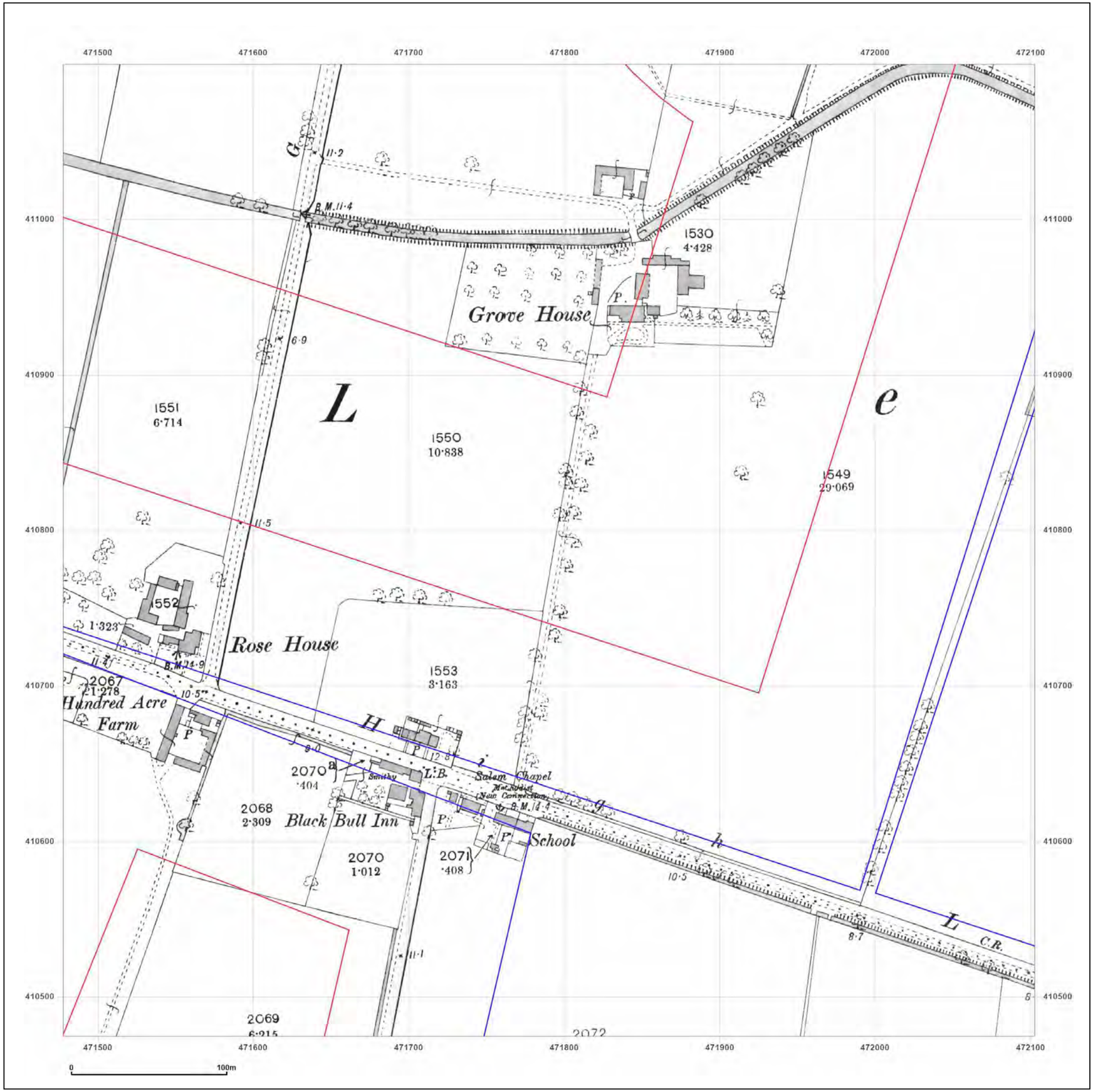
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_4
Grid Ref: 471790, 410787

Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

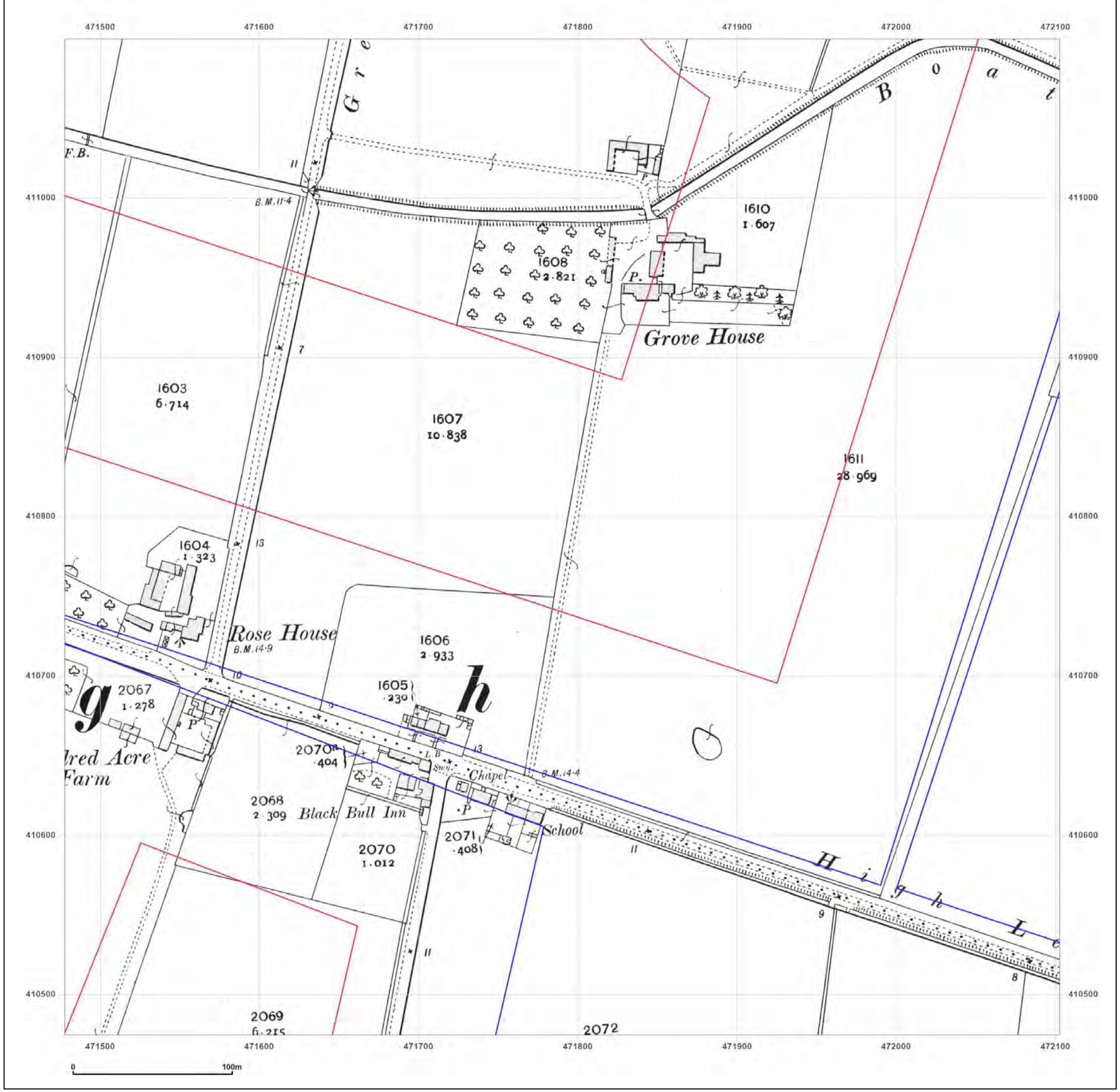
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_4
Grid Ref: 471790, 410787

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
S

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

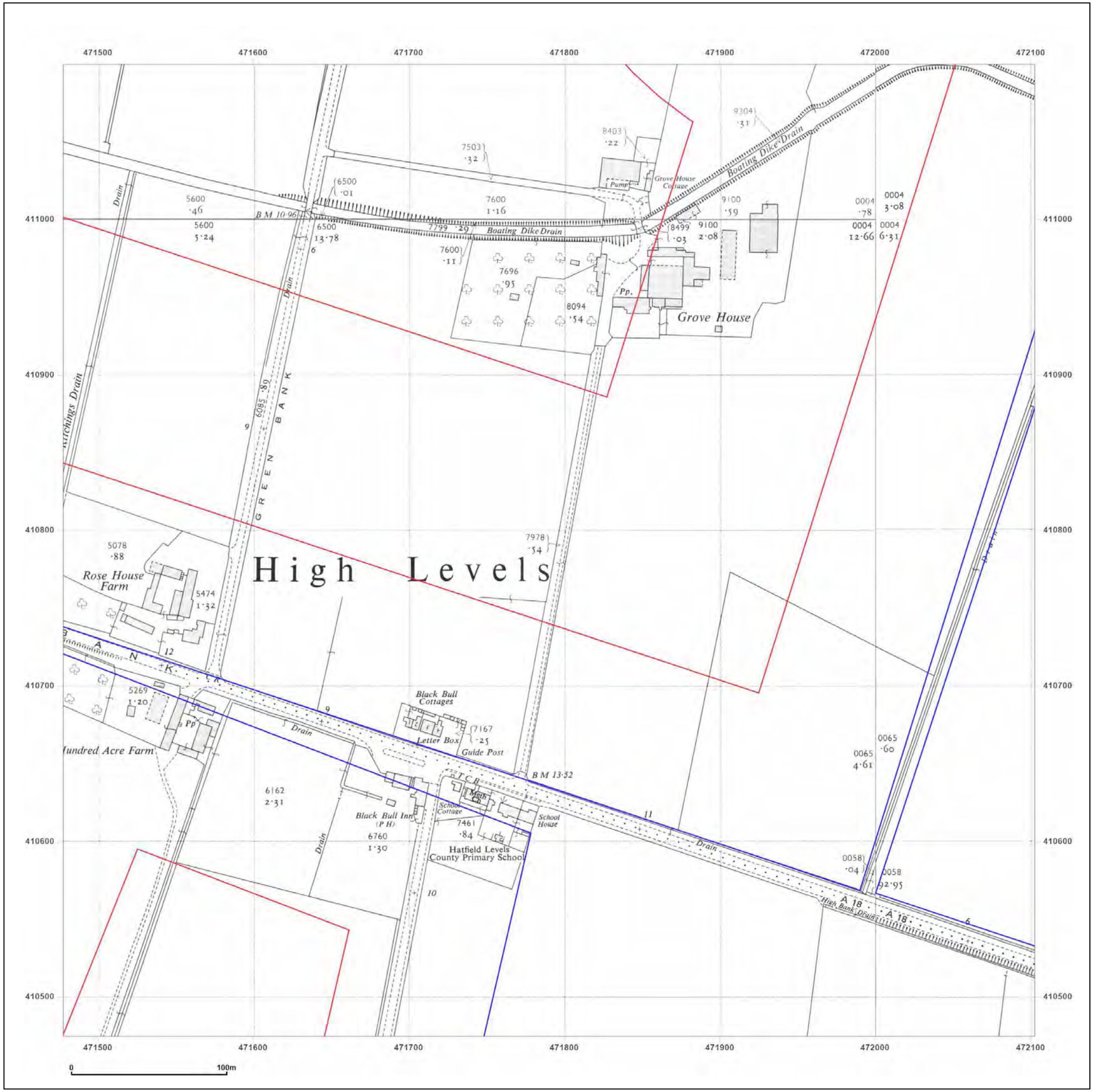
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_4
Grid Ref: 471790, 410787

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

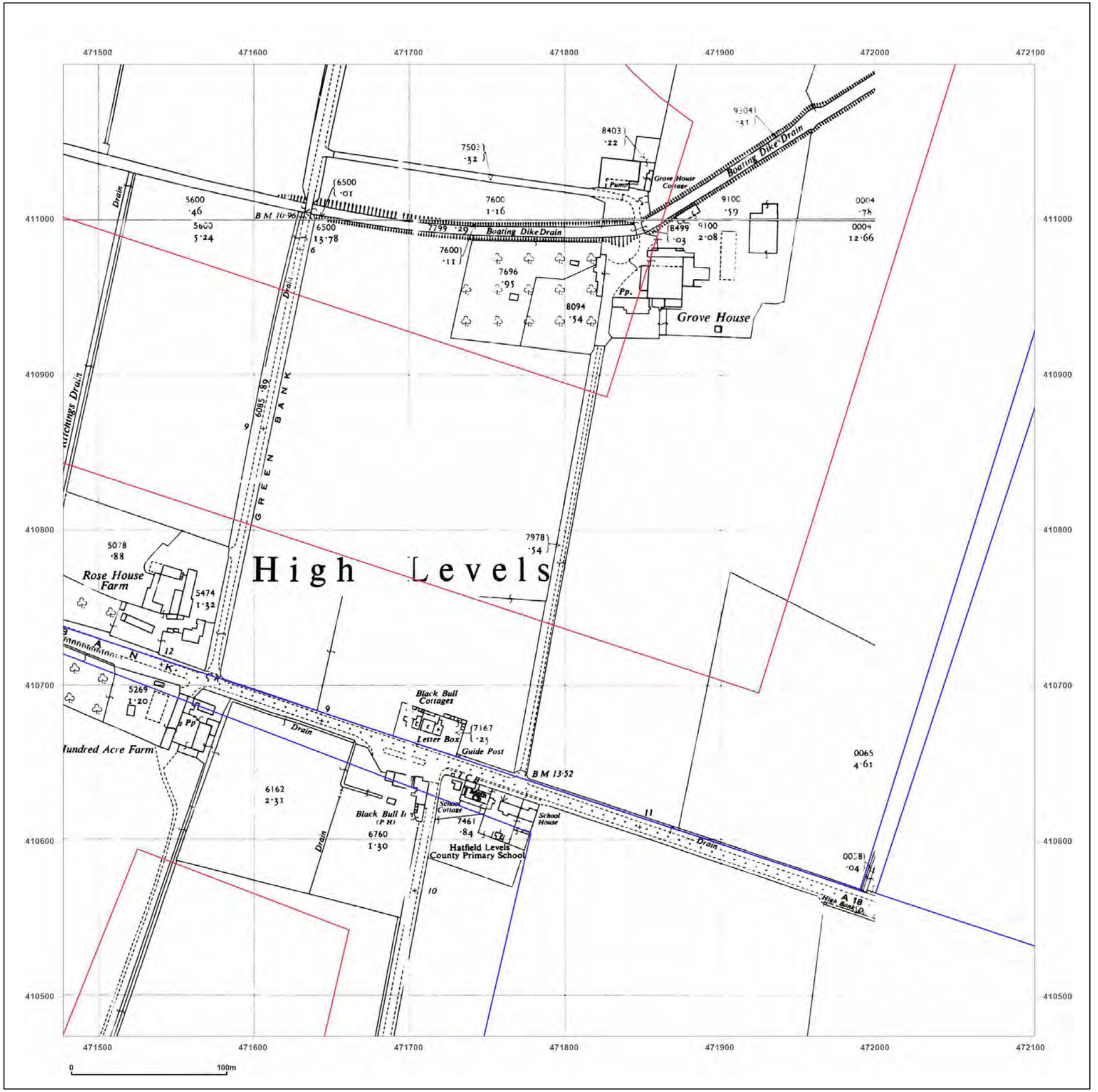
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_4
Grid Ref: 471790, 410787

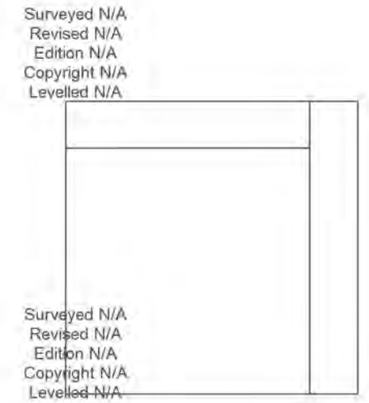
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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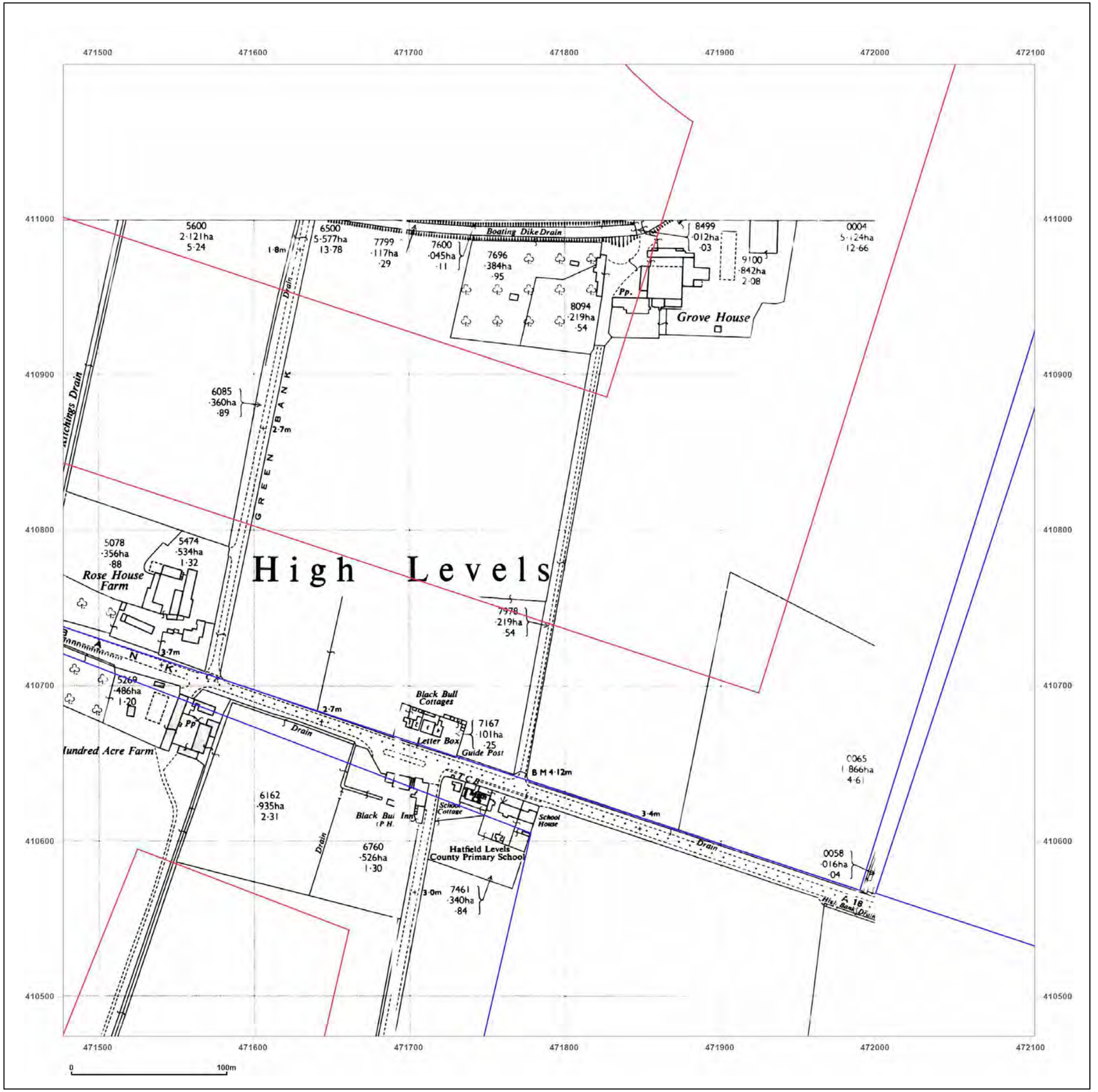
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_4
Grid Ref: 471790, 410787

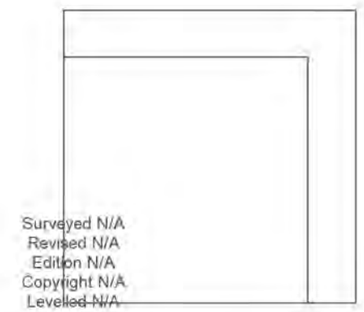
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_4
Grid Ref: 471790, 410787

Map Name: National Grid

Map date: **1993**

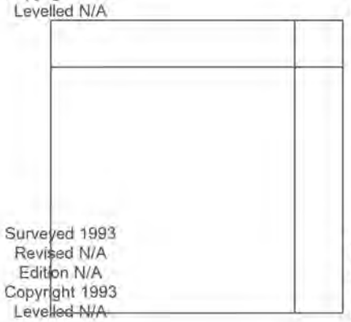
Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

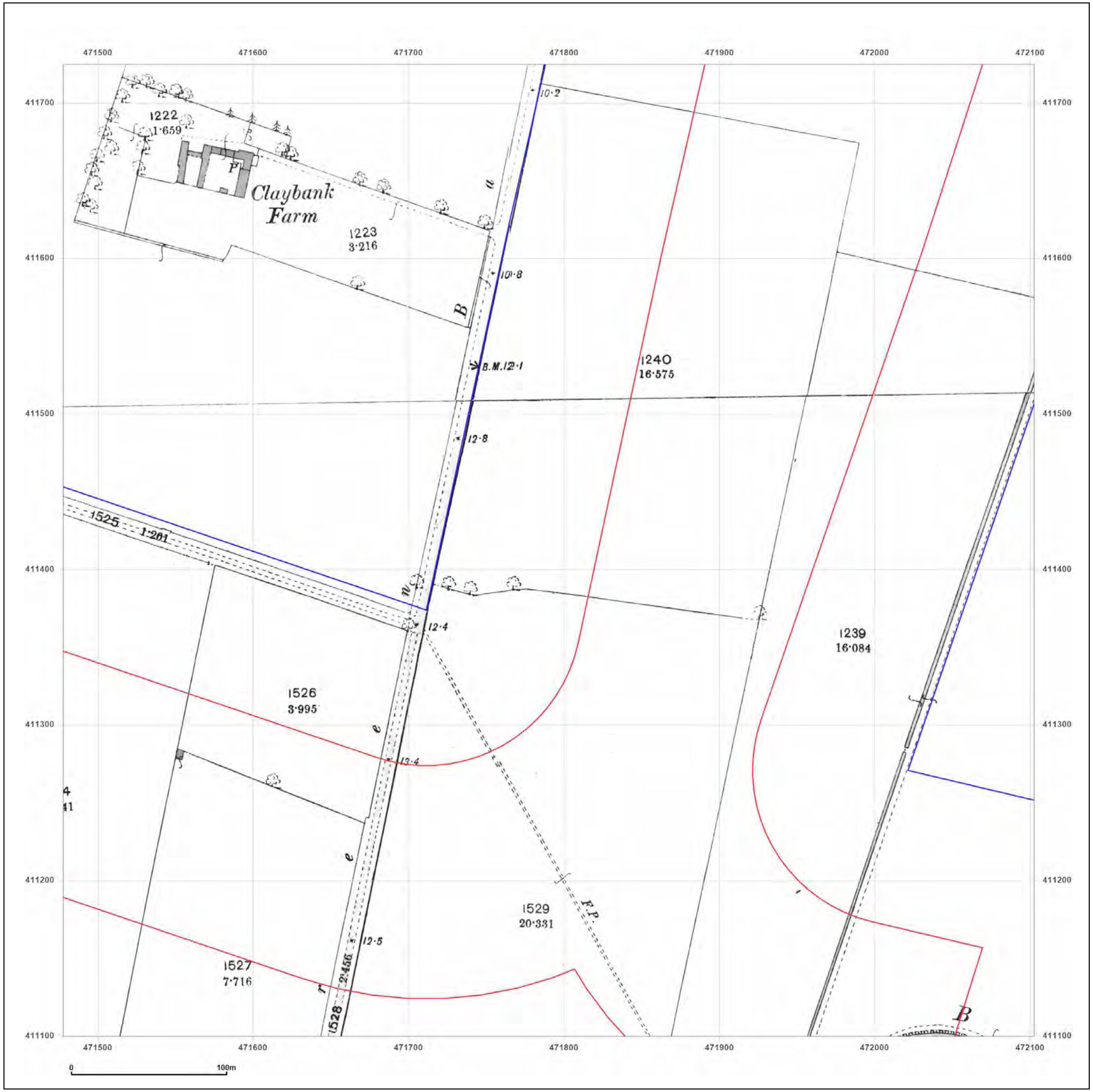
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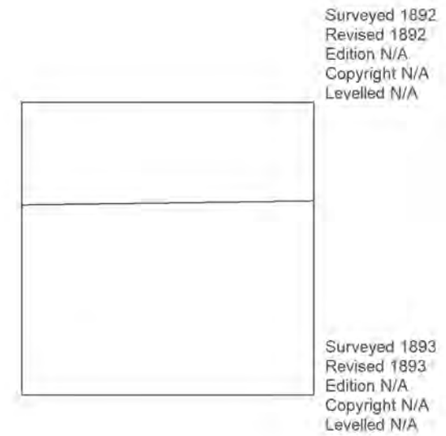
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_5
Grid Ref: 471790, 411412

Map Name: County Series
Map date: **1892-1893**
Scale: 1:2,500
Printed at: 1:2,500

N
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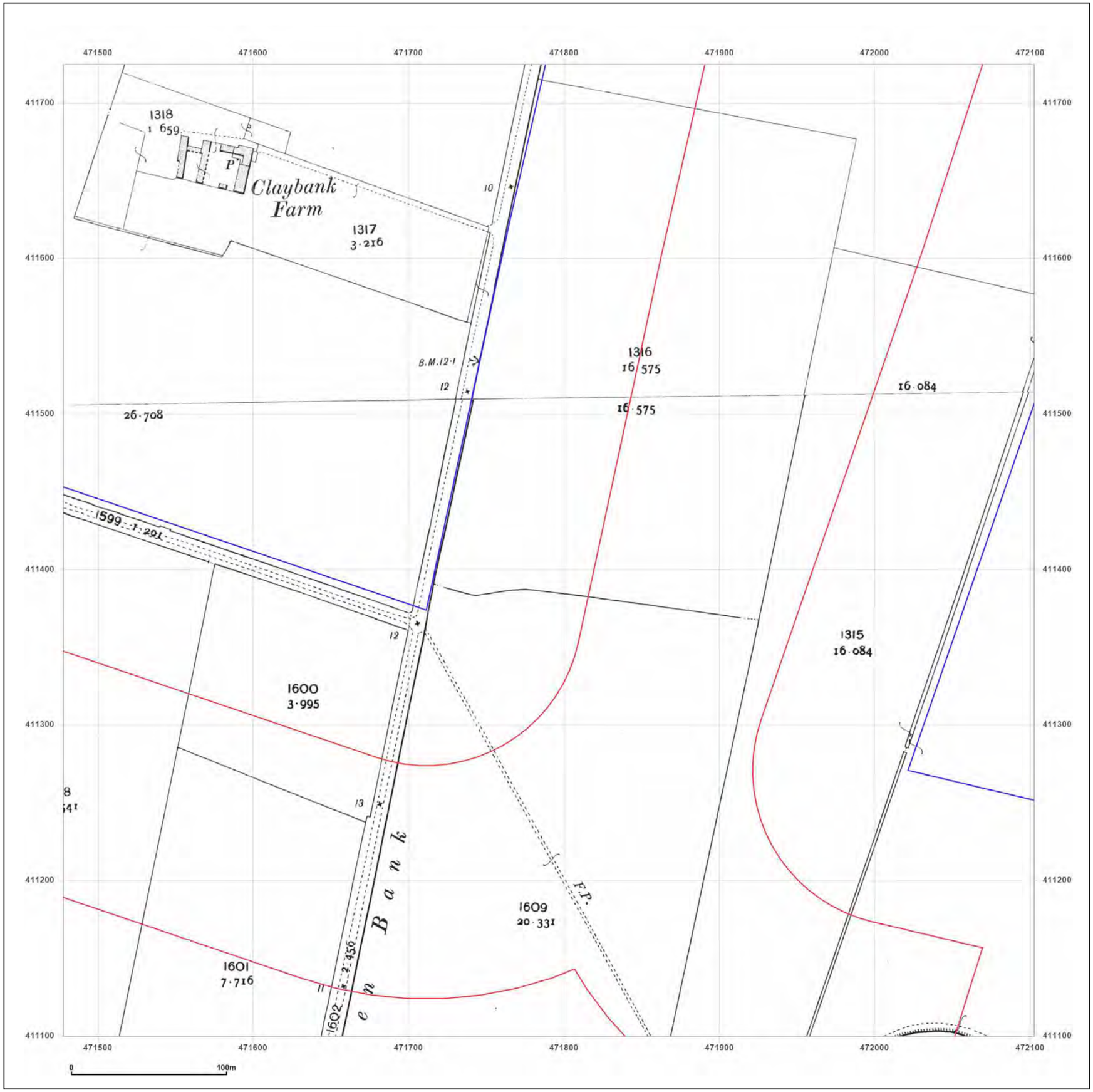
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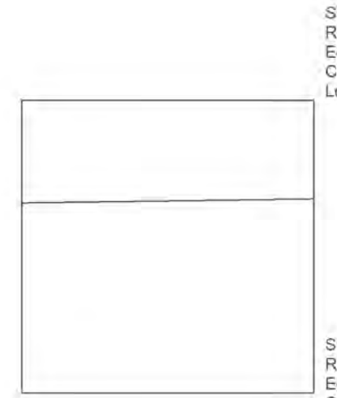
Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_5
Grid Ref: 471790, 411412

Map Name: County Series
Map date: **1906-1907**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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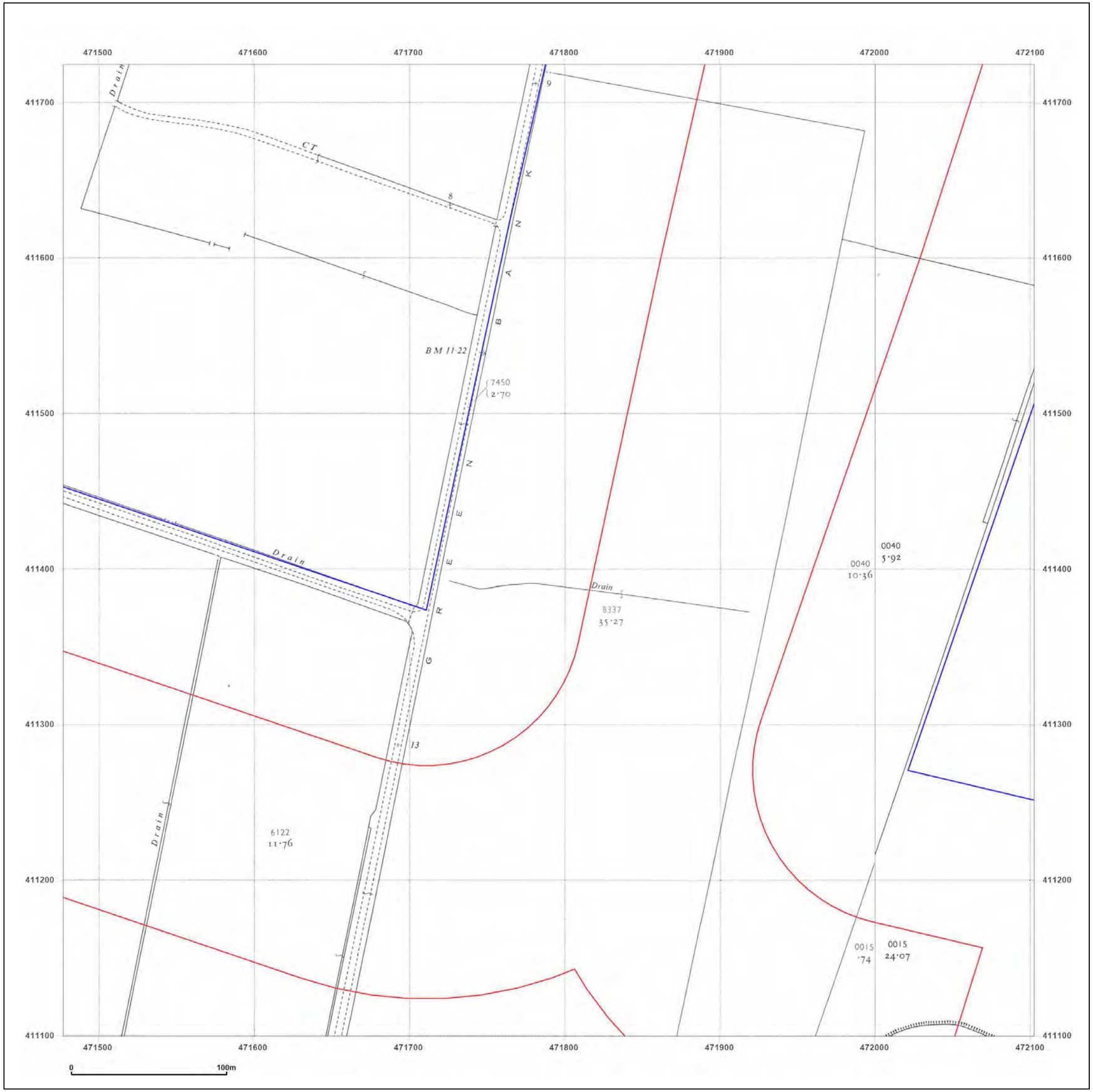
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Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_5
Grid Ref: 471790, 411412

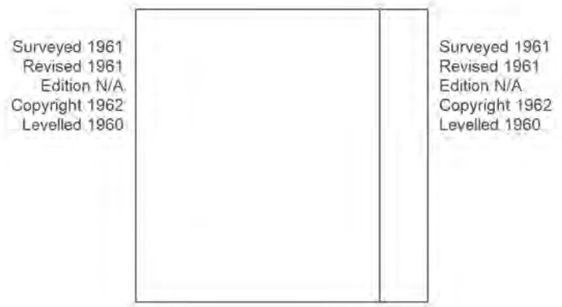
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

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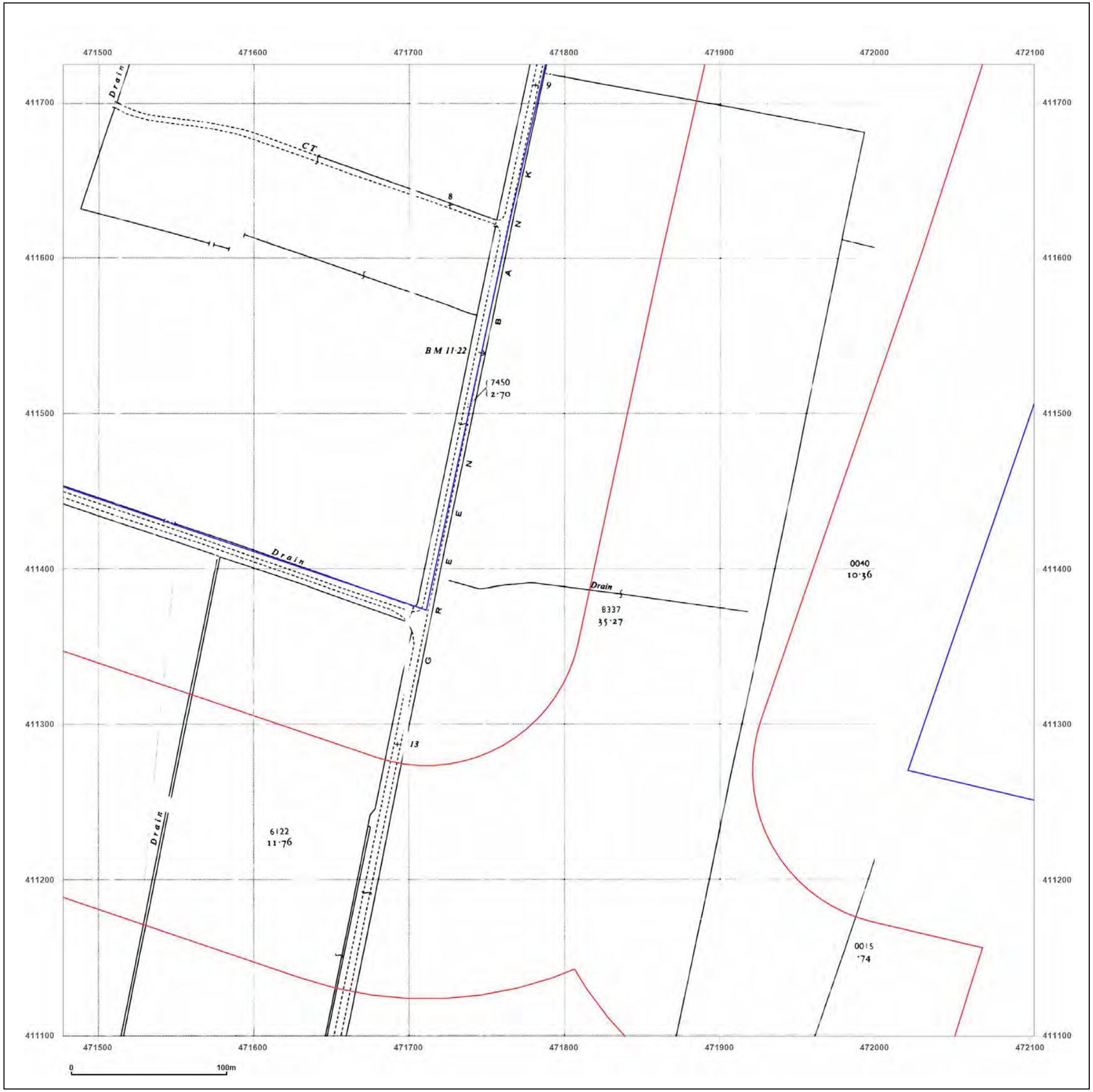
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_5
Grid Ref: 471790, 411412

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

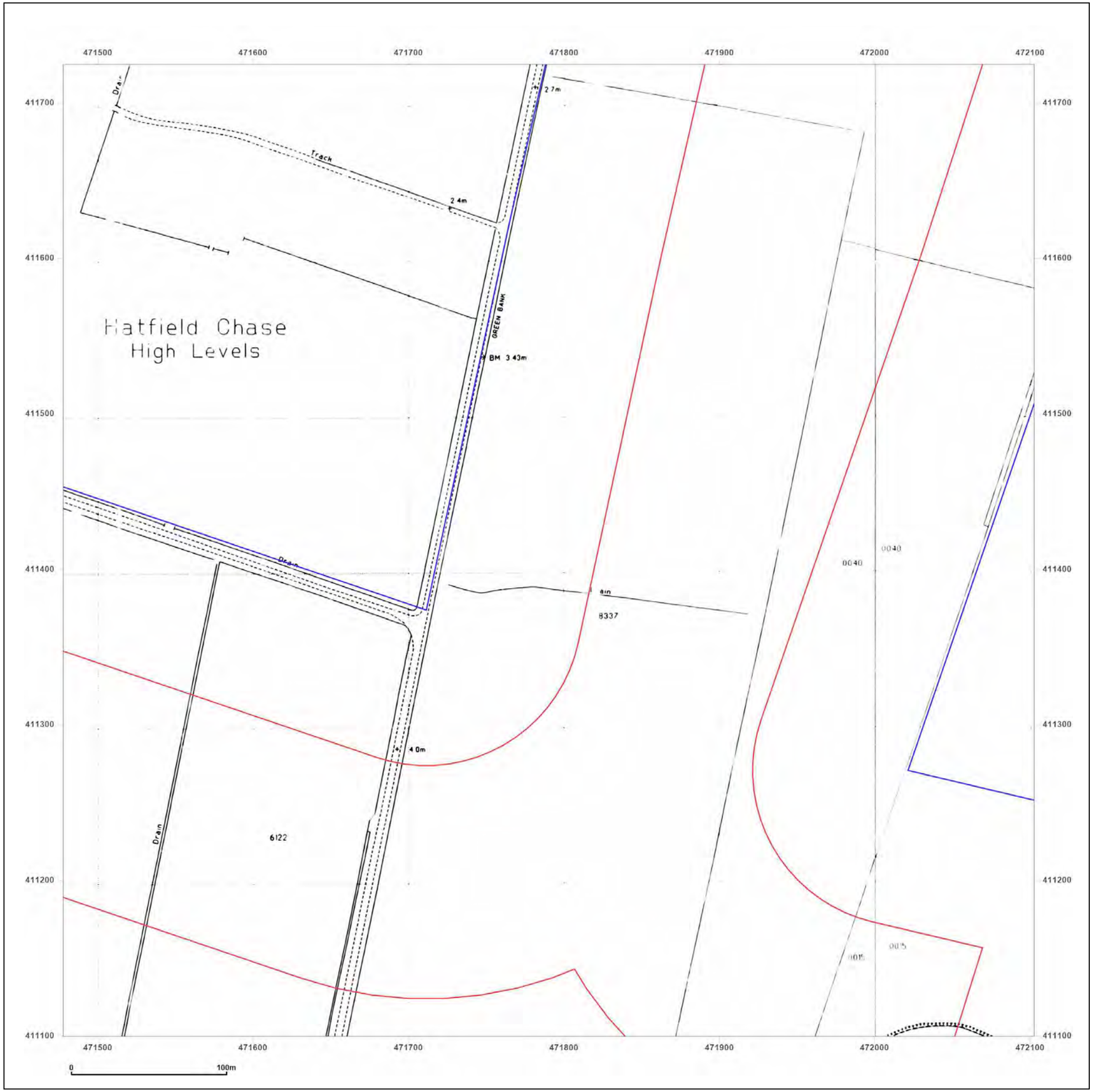
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_5
Grid Ref: 471790, 411412

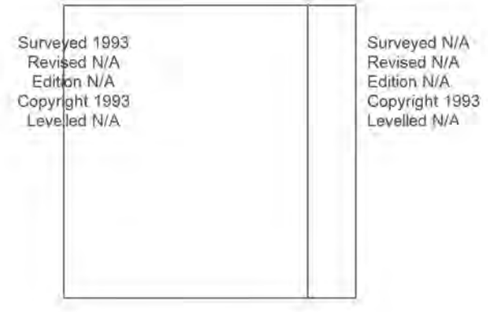
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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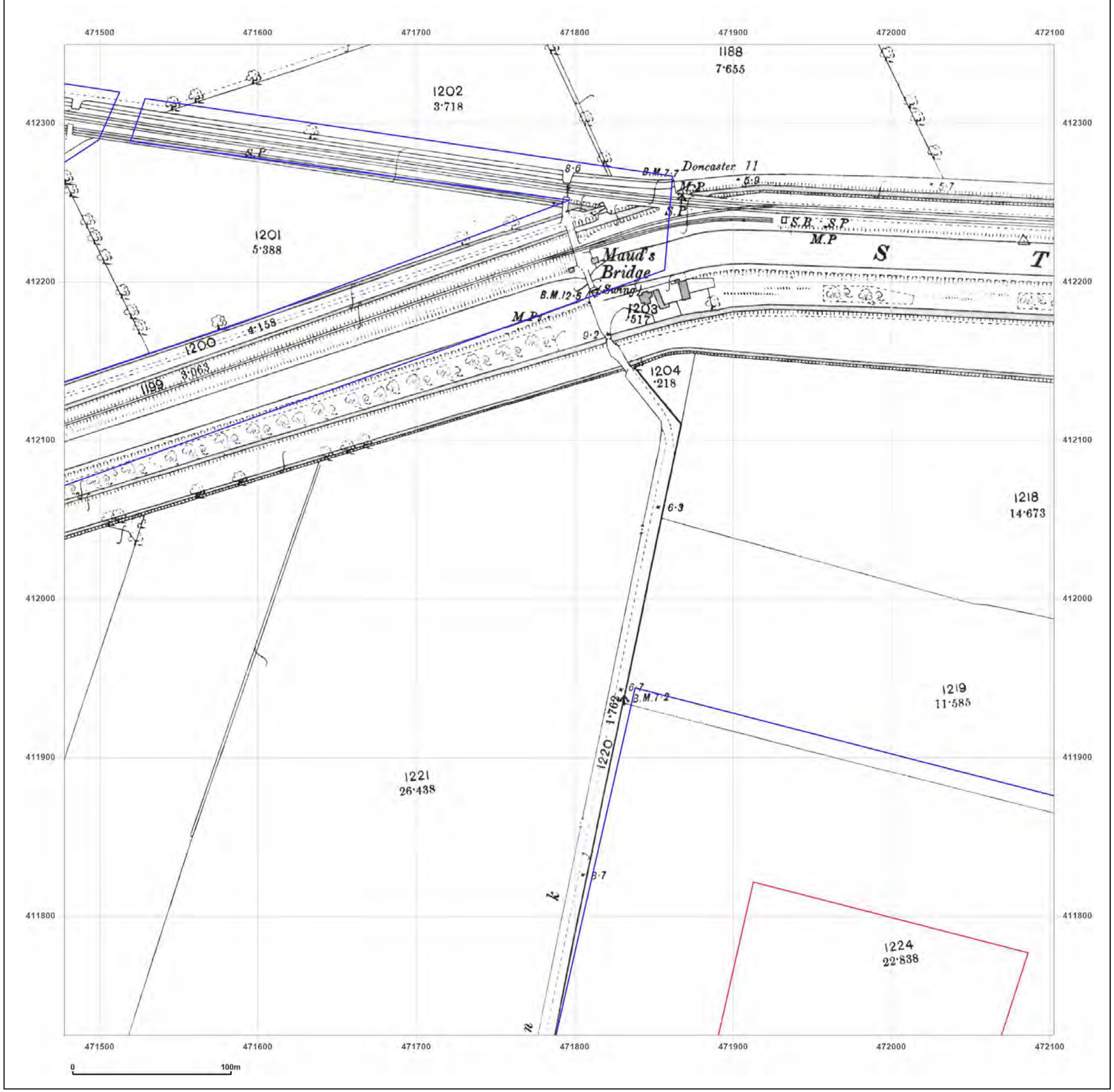
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_6
Grid Ref: 471790, 412037

Map Name: County Series

Map date: **1892**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

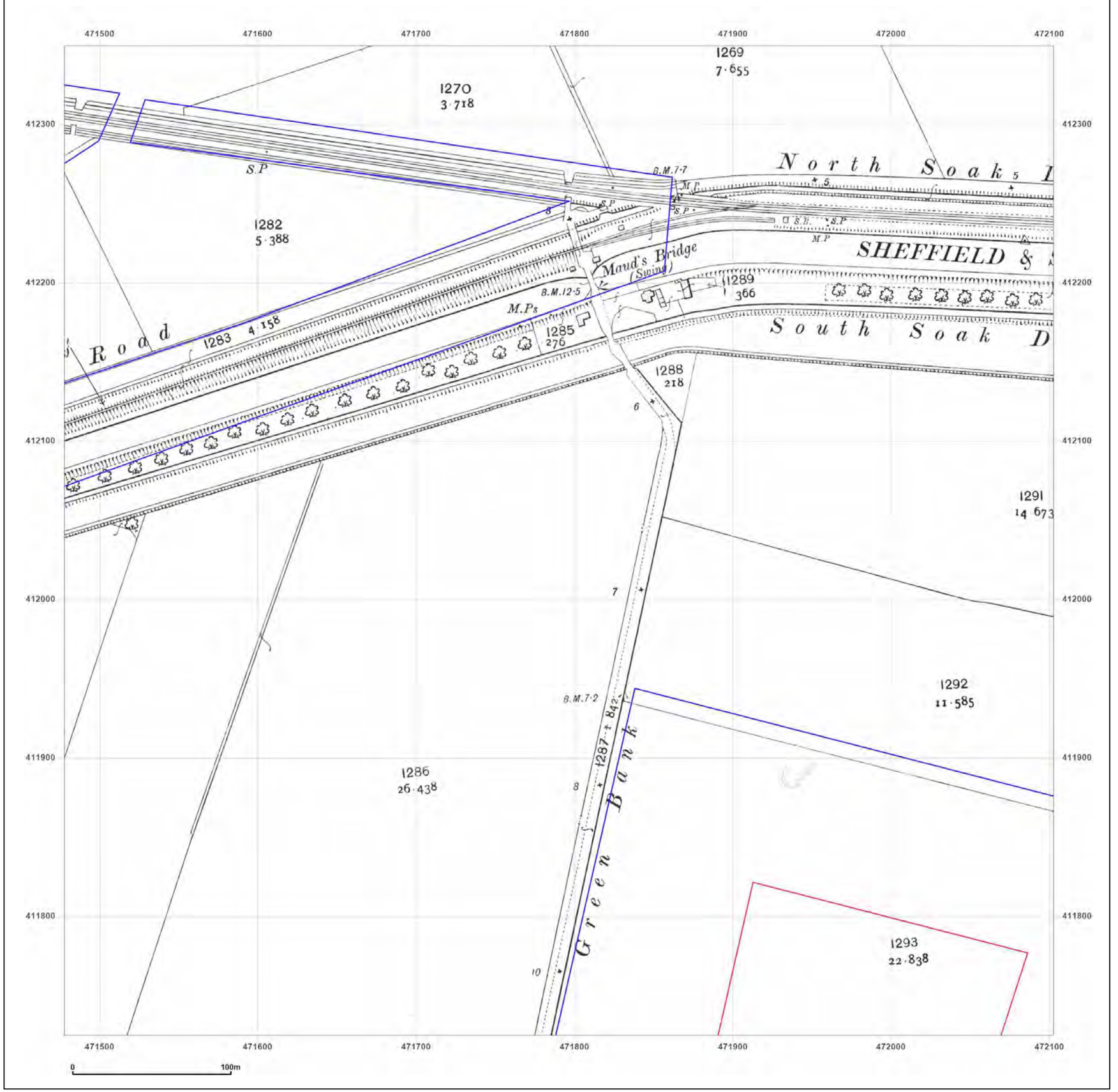
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Production date: 03 March 2023

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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_6
Grid Ref: 471790, 412037

Map Name: County Series

Map date: **1907**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

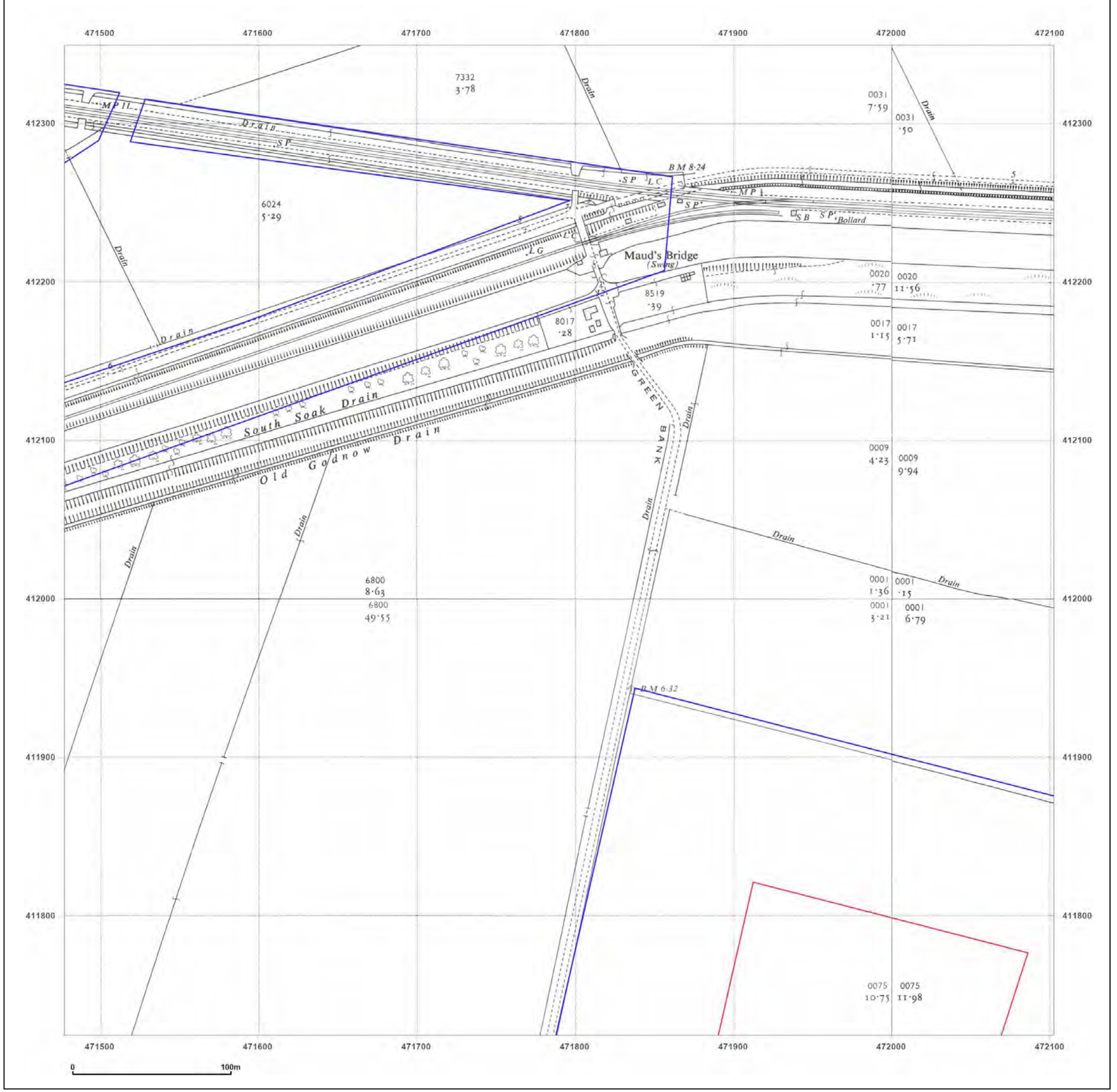
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Groundsure INSIGHTS

Site Details:

Thorne

Client Ref: Thorne
Report Ref: GSIP-2023-13386-12979_LS_6_6
Grid Ref: 471790, 412037

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1961

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1960

Surveyed 1961
Revised 1961
Edition N/A
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