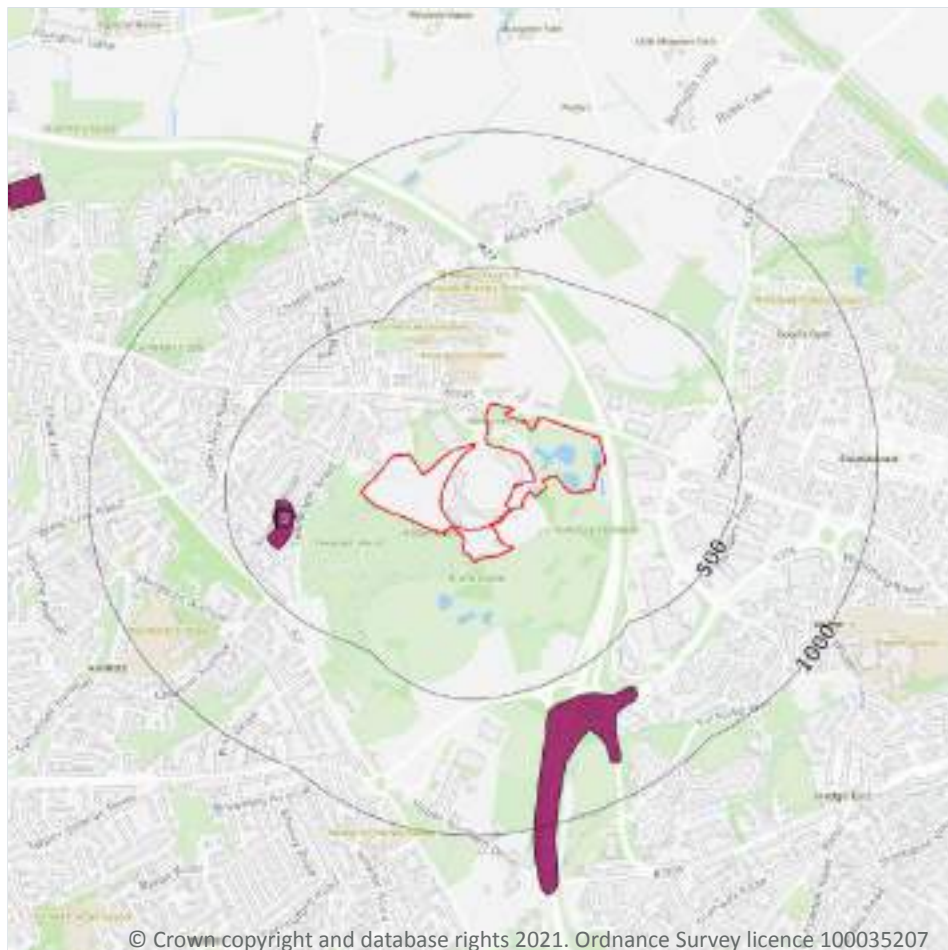


Geology 1:50,000 scale - Artificial and made ground



- Site Outline**
- Search buffers in metres (m)**
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

1

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability. Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 96**

ID	Location	LEX Code	Description	Rock description
1	251m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

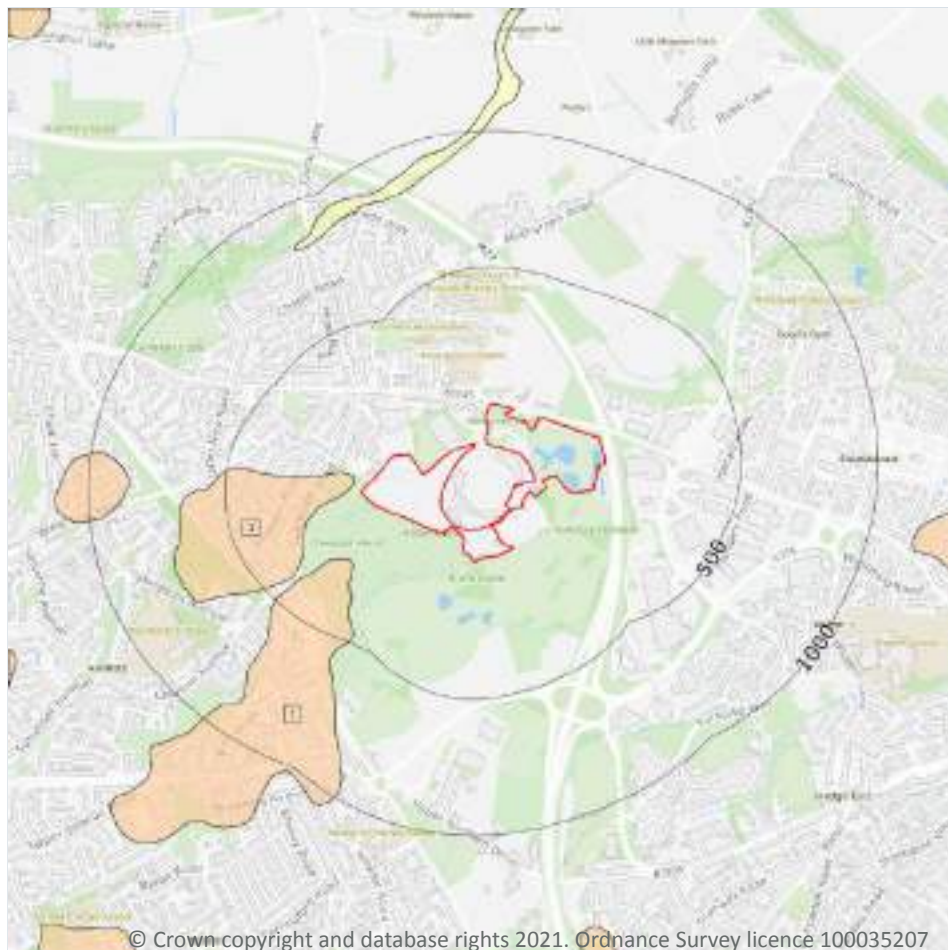
0

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

2

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 98**

ID	Location	LEX Code	Description	Rock description
1	43m NW	RTDX-XSV	RIVER TERRACE DEPOSITS, 10	SAND AND GRAVEL
2	222m SW	RTD9-XSV	RIVER TERRACE DEPOSITS, 9	SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m**1**

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

Location	Flow type	Maximum permeability	Minimum permeability
43m W	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m**0**

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

This data is sourced from the British Geological Survey.

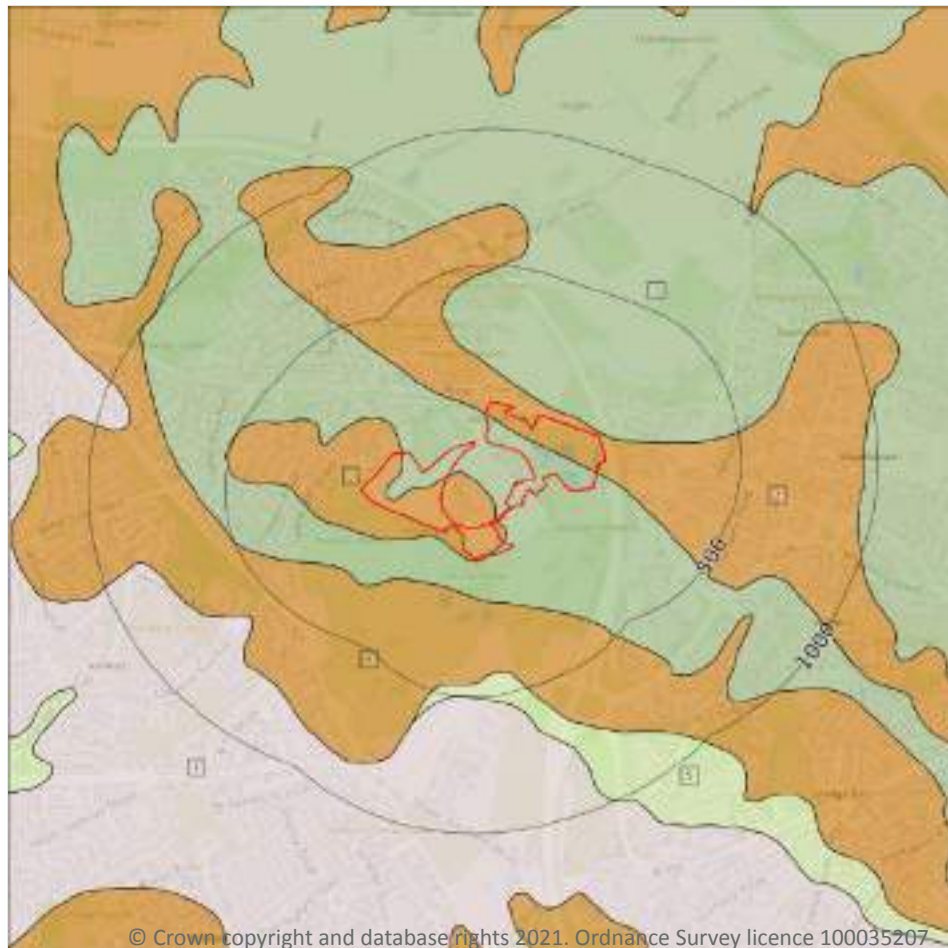
15.7 Landslip permeability (50k)

Records within 50m**0**

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m

6

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 100**

ID	Location	LEX Code	Description	Rock age
1	On site	MARF-CLSISA	MARSH FARM FORMATION - CLAY, SILT AND SAND	LUTETIAN
2	On site	MARF-CLSISA	MARSH FARM FORMATION - CLAY, SILT AND SAND	LUTETIAN
3	On site	EA-XSZC	EARNLEY SAND FORMATION - SAND, SILT AND CLAY	LUTETIAN



ID	Location	LEX Code	Description	Rock age
4	127m S	WTT-XSZC	WITTERING FORMATION - SAND, SILT AND CLAY	YPRESIAN
5	421m S	WHI-S	WHITECLIFF SAND MEMBER - SAND	-
6	499m S	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

3

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

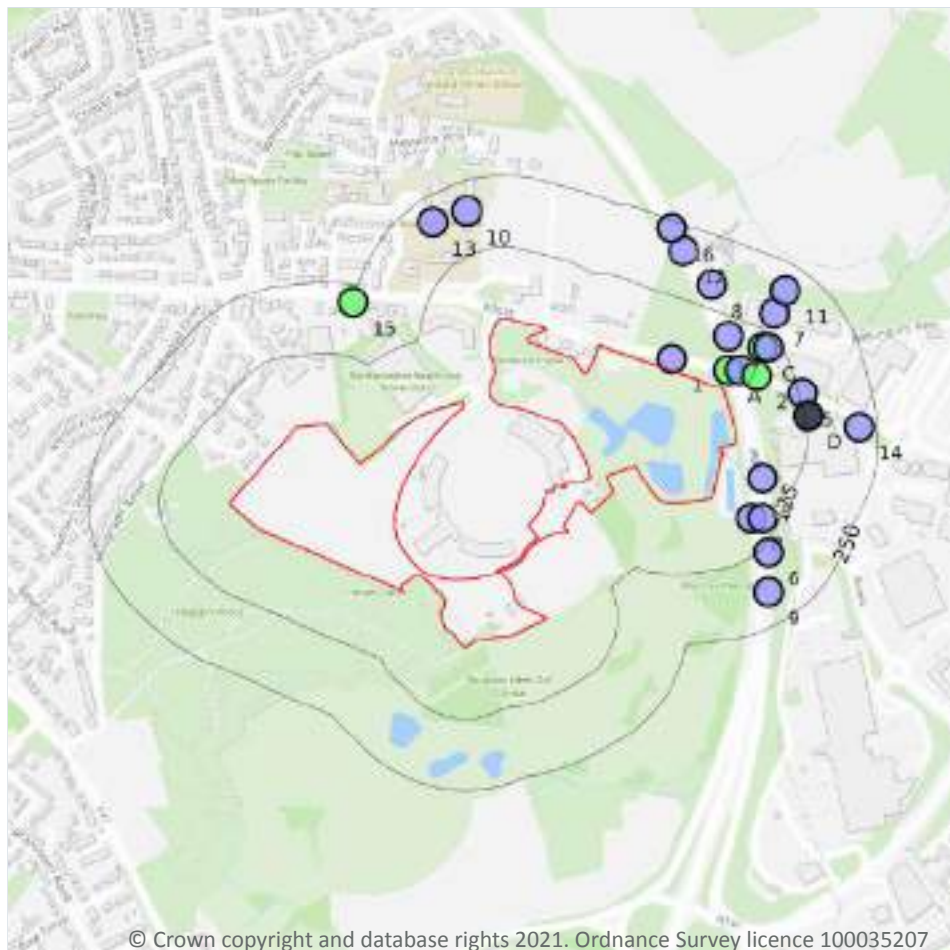
0

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

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

24

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 102**

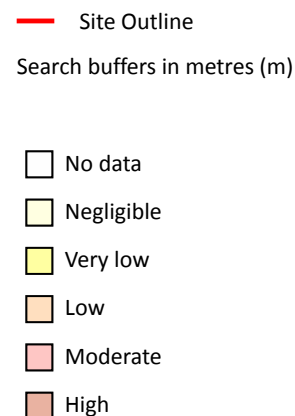
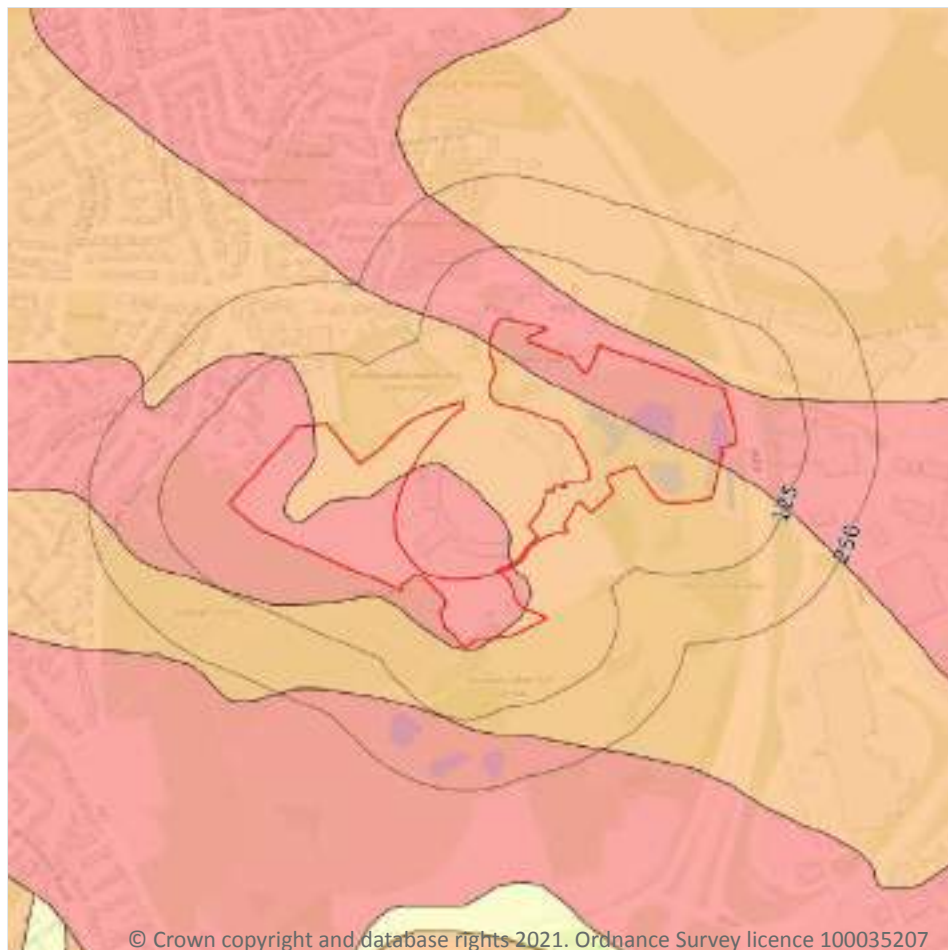
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	20m N	448060 114300	WEST END MIN OF TRANSPORT BH67	6.7	N	410326
A	34m N	448160 114280	WEST END MIN OF TRANSPORT BH64	16.76	N	410323

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	45m NE	448180 114280	WEST END MIN OF TRANSPORT BH63	9.14	N	410322
2	64m E	448210 114270	WEST END MIN OF TRANSPORT BH62	19.81	N	410321
3	79m SE	448220 114090	WEST END MIN OF TRANSPORT BH69	4.57	N	410328
B	79m SE	448200 114020	WEST END MIN OF TRANSPORT BH68	4.87	N	410327
4	91m N	448160 114340	WEST END MIN OF TRANSPORT BH61	4.57	N	410320
B	97m SE	448220 114020	WEST END MIN OF TRANSPORT BH70	4.57	N	410329
C	101m NE	448220 114320	HEDGE END SOUTHAMPTON 1B	11.9	N	18477144
C	108m NE	448230 114320	HEDGE END SOUTHAMPTON 1A	3.2	N	18477143
5	132m E	448290 114240	WEST END MIN OF TRANSPORT BH66	6.09	N	410325
D	132m E	448300 114200	NETLEY COMMON 1	-	Y	N/A
D	132m E	448300 114200	NETLEY COMMON TP M71	-	Y	N/A
6	139m SE	448230 113960	WEST END MIN OF TRANSPORT BH71	4.57	N	410330
7	161m NE	448240 114380	HEDGE END SOUTHAMPTON 3	8.2	N	18477146
8	166m N	448130 114430	WEST END MIN OF TRANSPORT BH60	4.57	N	410319
9	194m SE	448230 113890	WEST END MIN OF TRANSPORT BH72	4.57	N	410331
10	199m N	447700 114560	MOORGREEN HOSPITAL NO.3	-2.0	N	410688
11	205m NE	448260 114420	HEDGE END SOUTHAMPTON 2	8.1	N	18477145
12	206m N	448080 114490	WEST END MIN OF TRANSPORT BH59	4.57	N	410318
13	207m NW	447640 114540	MOORGREEN HOSPITAL NO.2	-2.0	N	410687
14	219m E	448390 114180	WEST END MIN OF TRANSPORT BH65	6.4	N	410324
15	219m N	447500 114400	WESTEND INSTITUTION	21.33	N	410819
16	237m N	448060 114530	WEST END MIN OF TRANSPORT BH58	4.57	N	410317

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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17.1 Shrink swell clays

Records within 50m

2

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 104**

Location	Hazard rating	Details
On site	Low	Ground conditions predominantly medium plasticity.
On site	Moderate	Ground conditions predominantly high plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Running sands map on **page 105**

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.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 106**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

1

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

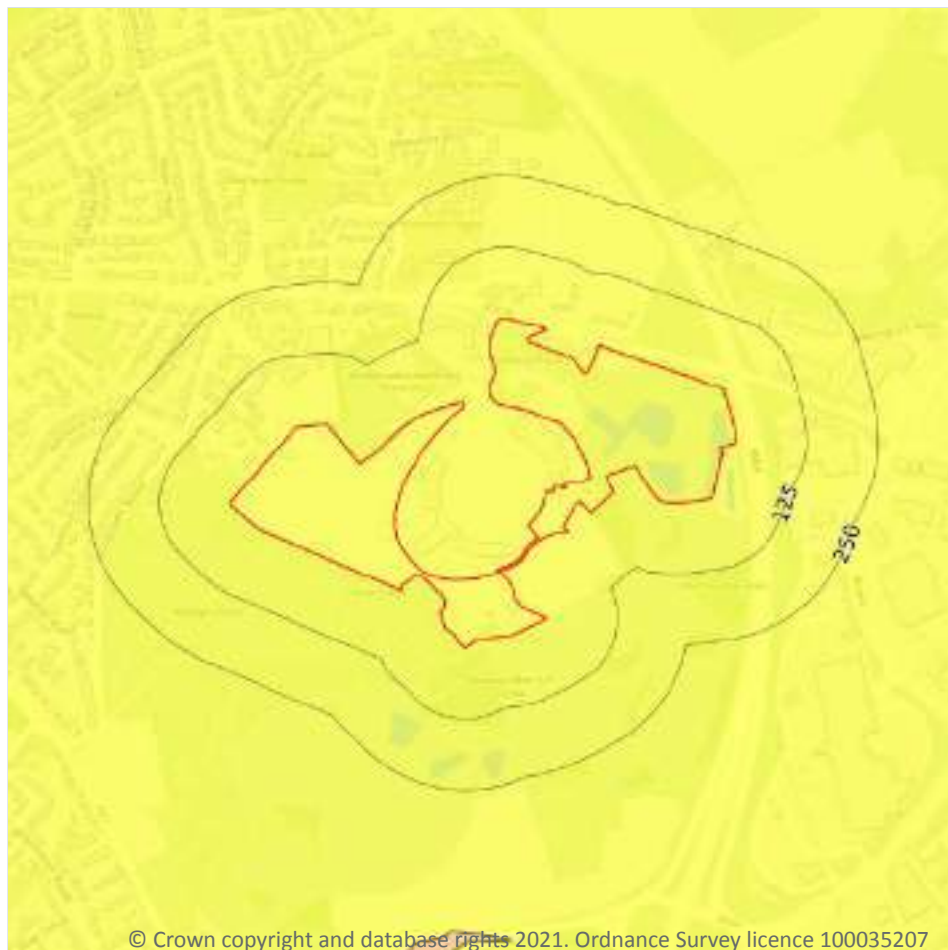
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 107**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 108**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

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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.

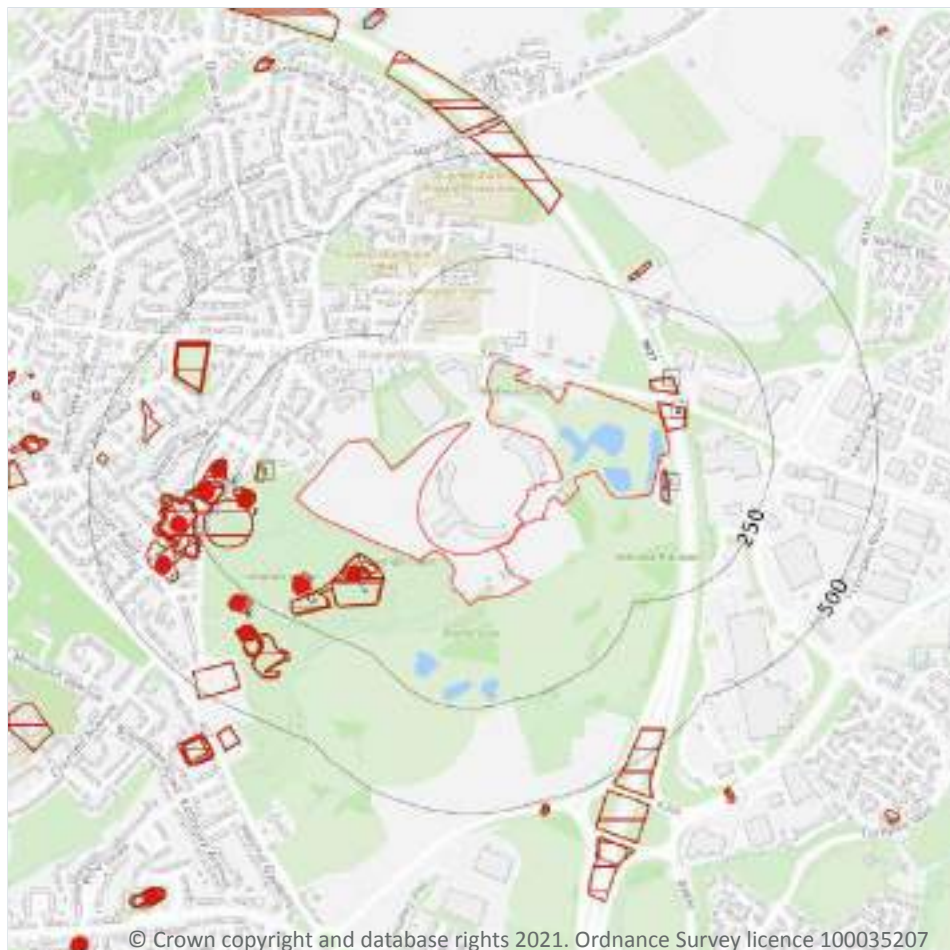
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 109**

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



- 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

9

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 111**

ID	Location	Details	Description
C	92m SW	Name: Hickley Farm Gravel Pit Address: West End, SOUTHAMPTON, Hampshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	124m W	Name: Telegraph Wood Sand Pit Address: West End, SOUTHAMPTON, Hampshire Commodity: Sand 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
G	168m SW	Name: Telegraph Wood Gravel Pit Address: West End, SOUTHAMPTON, Hampshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
H	199m W	Name: Telegraph Wood Sand Pit Address: West End, SOUTHAMPTON, Hampshire Commodity: Sand 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
H	218m W	Name: Telegraph Wood Sand Pit Address: West End, SOUTHAMPTON, Hampshire Commodity: Sand 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



ID	Location	Details	Description
K	278m SW	Name: Telegraph Wood Gravel Pit Address: West End, SOUTHAMPTON, Hampshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
I	290m W	Name: Telegraph Gravel Pits Address: West End, SOUTHAMPTON, Hampshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
N	324m SW	Name: Telegraph Wood Gravel Pit Address: West End, SOUTHAMPTON, Hampshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
O	358m SW	Name: Telegraph Wood Gravel Pit Address: West End, SOUTHAMPTON, Hampshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

36

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 111**

ID	Location	Land Use	Year of mapping	Mapping scale
A	3m E	Cuttings	1993	1:10000
A	3m E	Cuttings	1987	1:10000
B	12m E	Pond	1993	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
B	12m E	Pond	1987	1:10000
C	42m SW	Old Gravel Pits	1957	1:10560
C	42m SW	Old Gravel Pits	1957	1:10560
C	42m SW	Old Gravel Pits	1957	1:10560
D	48m N	Cuttings	1993	1:10000
D	48m N	Cuttings	1987	1:10000
C	52m SW	Old Gravel Pits	1957	1:10560
C	65m SW	Old Gravel Pits	1910	1:10560
C	69m SW	Old Gravel Pit	1897	1:10560
C	70m SW	Refuse Heap	1868	1:10560
C	72m SW	Old Gravel Pit	1895	1:10560
C	75m SW	Gravel Pits	1957	1:10560
1	89m NW	Gravel Pits	1868	1:10560
E	102m W	Old Sand Pit	1910	1:10560
E	102m W	Unspecified Pit	1957	1:10560
E	102m W	Unspecified Pit	1957	1:10560
E	104m W	Unspecified Pit	1957	1:10560
E	118m W	Sand Pit	1897	1:10560
F	119m W	Unspecified Disused Pit	1993	1:10000
F	119m W	Unspecified Disused Pit	1987	1:10000
E	123m W	Sand Pit	1895	1:10560
G	136m SW	Gravel Pit	1910	1:10560
G	166m SW	Gravel Pits	1957	1:10560
H	176m W	Refuse Heap	1897	1:10560
H	178m W	Refuse Heap	1895	1:10560
H	178m W	Gravel Pit	1910	1:10560
H	179m W	Gravel Pits	1868	1:10560
H	187m NW	Sand Pit	1897	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
H	188m NW	Sand Pit	1910	1:10560
H	190m NW	Sand Pit	1895	1:10560
I	239m W	Gravel Pits	1897	1:10560
I	241m W	Unspecified Pit	1895	1:10560
I	244m W	Gravel Pits	1868	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

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

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

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
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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	0
-----------------	---

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
-----------------	---

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

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

18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

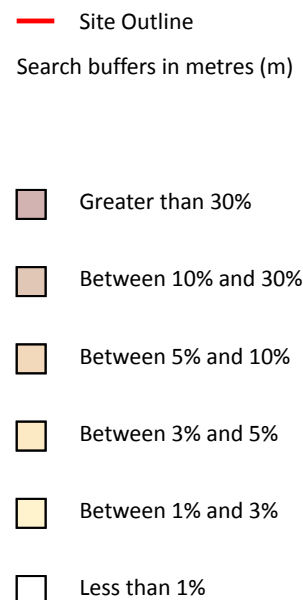
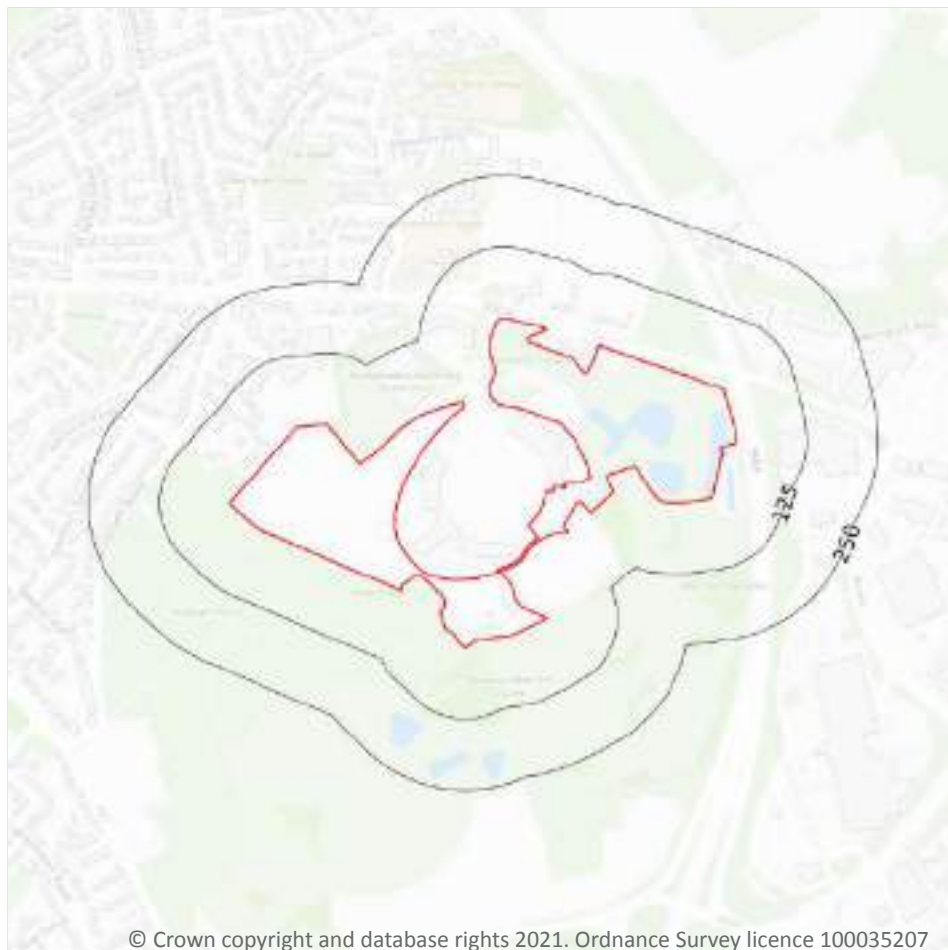
18.13 Clay mining

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



19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 118**

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

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

18

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 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 - 2.2 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	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 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	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 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	90 - 120 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
12m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
43m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
45m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
47m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	2.2 - 3.0 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 km²).

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 km².

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	0
---------------------	---

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

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0
---------------------	---

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



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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



This data is sourced from HS2 Ltd.



Data providers

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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: County Series

Map date: 1868-1871

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1869
Revised N/A
Edition 1871
Copyright N/A
Levelled N/A

Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

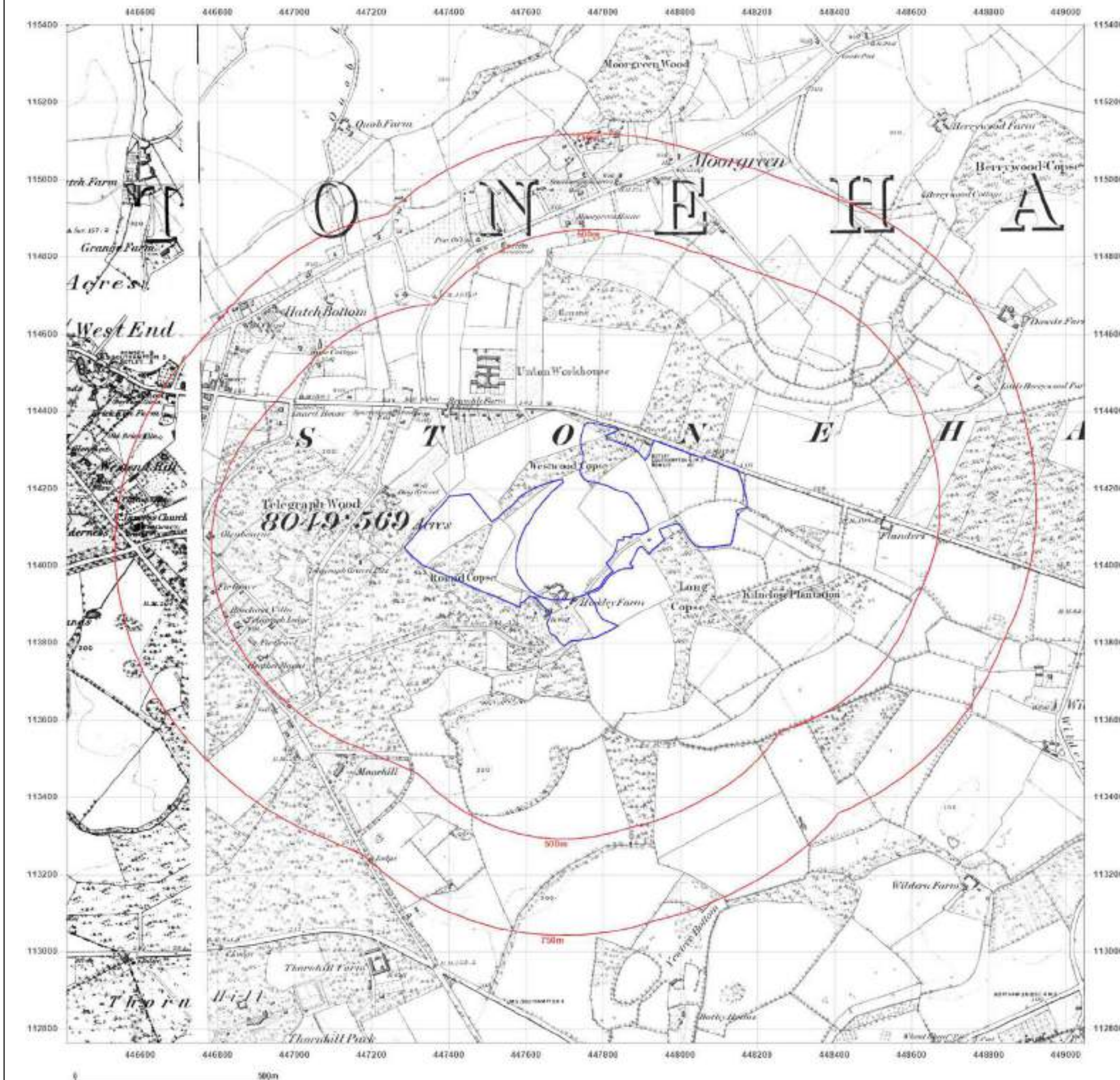


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: County Series

Map date: 1895-1896

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1895
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

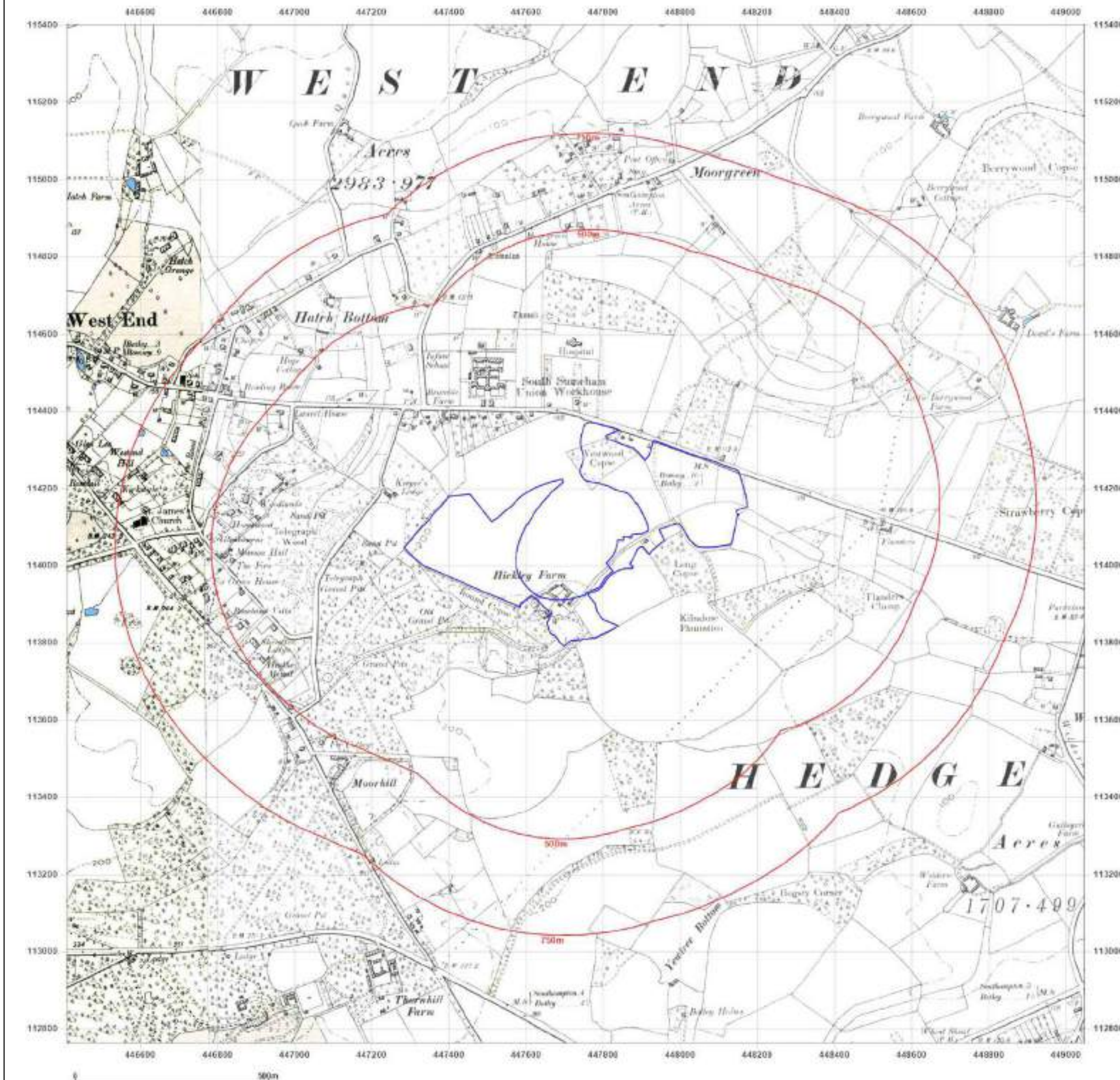


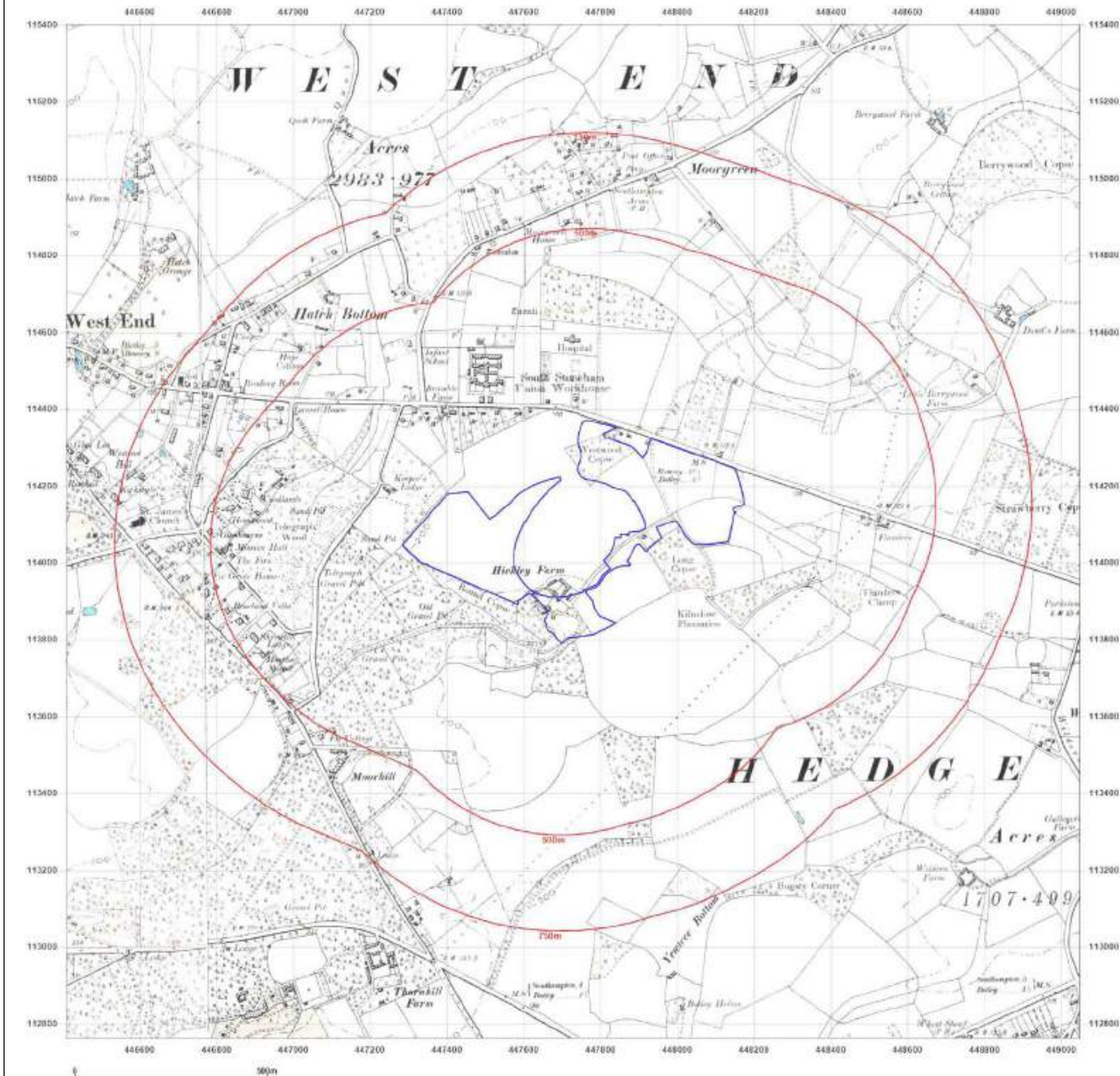
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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: County Series

Map date: 1896-1897

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1868
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1888
Revised N/A
Edition N/A
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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: County Series

Map date: 1910

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1867
Revised 1900
Edition 1910
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

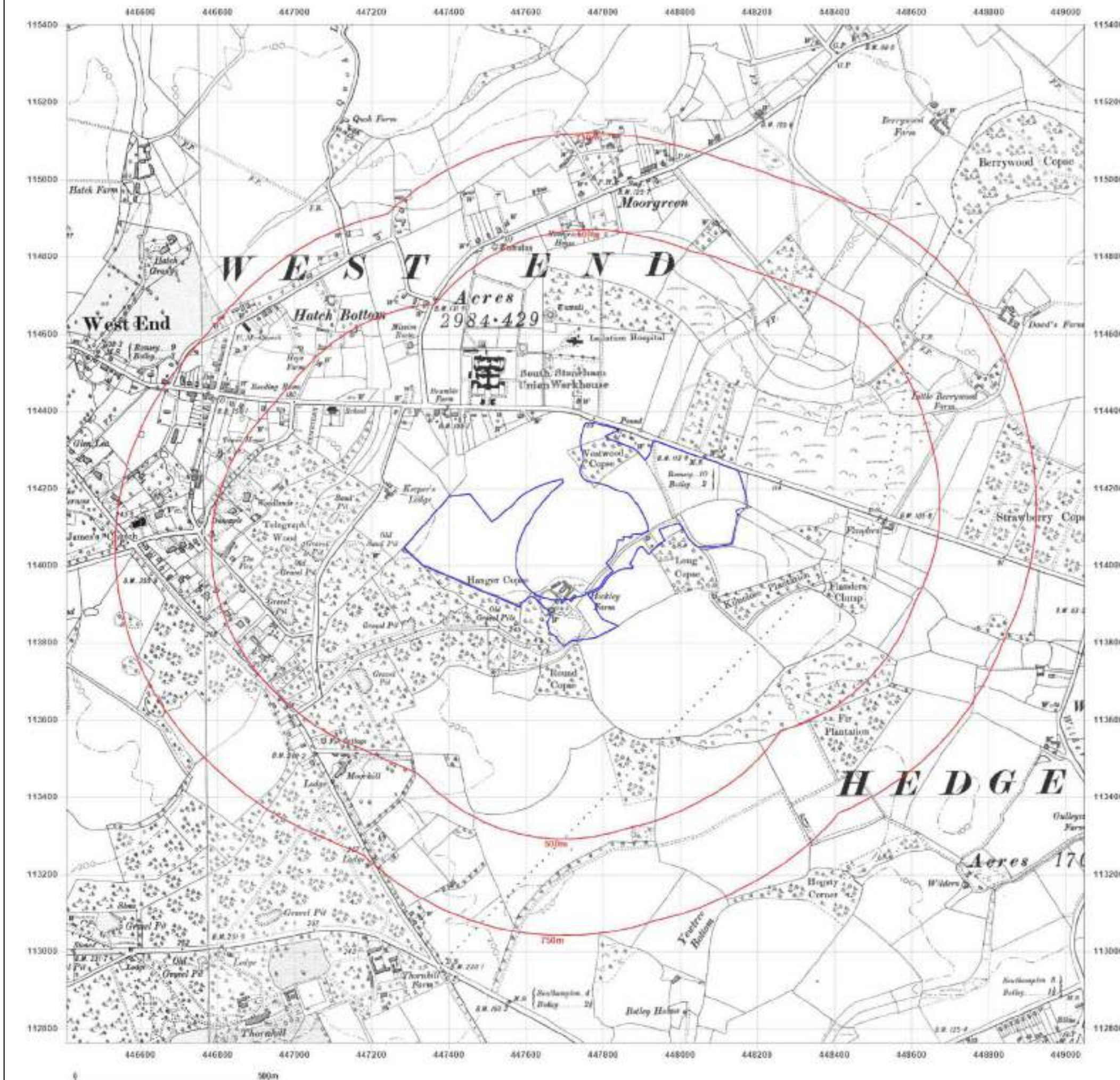


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: Provisional

Map date: 1957

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1868
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

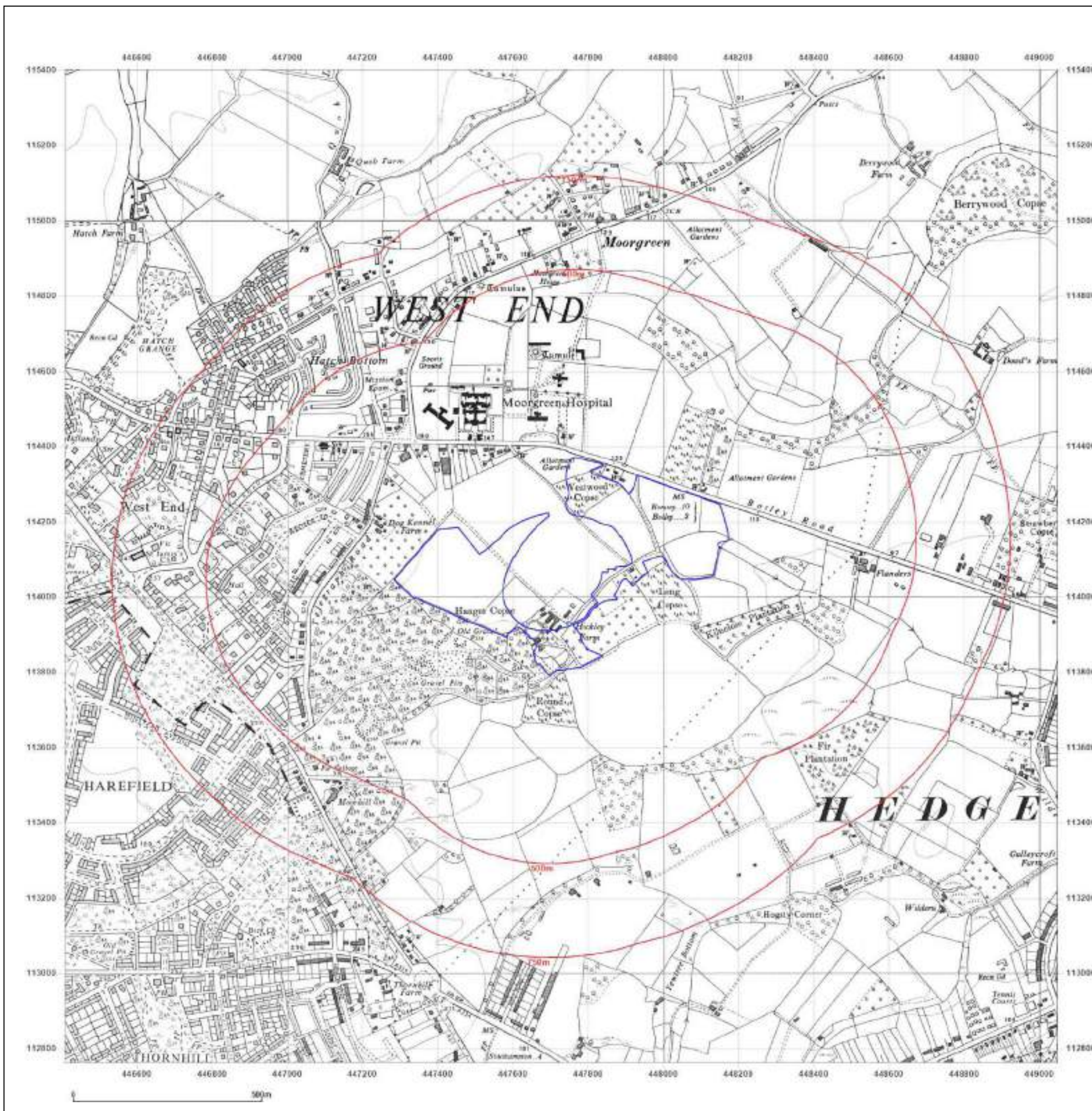


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: Provisional

Map date: 1957

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1887
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

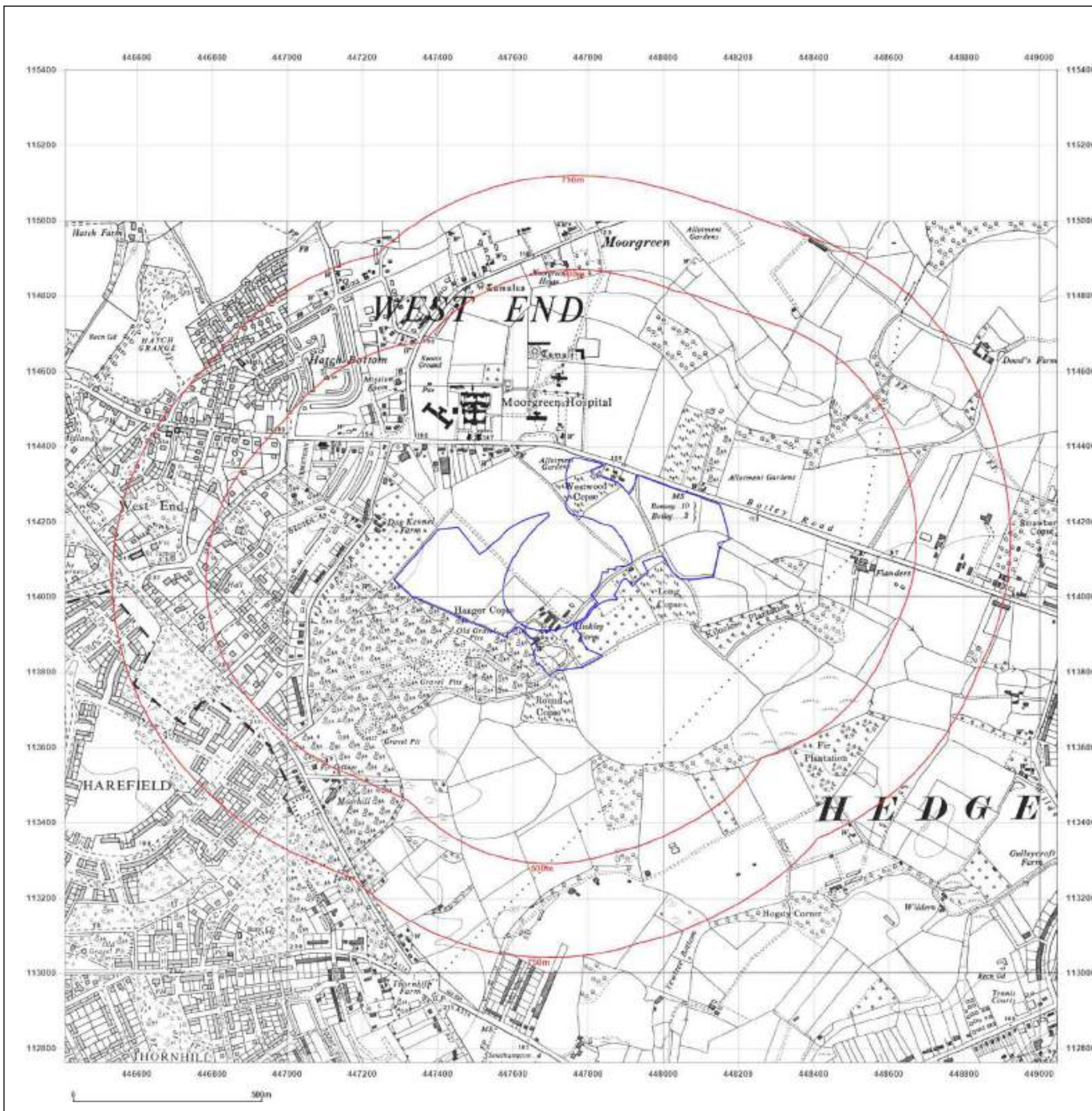


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: National Grid

Map date: 1978-1981

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1980
 Revised 1981
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1978
 Revised 1978
 Edition N/A
 Copyright 1978
 Levelled 1973

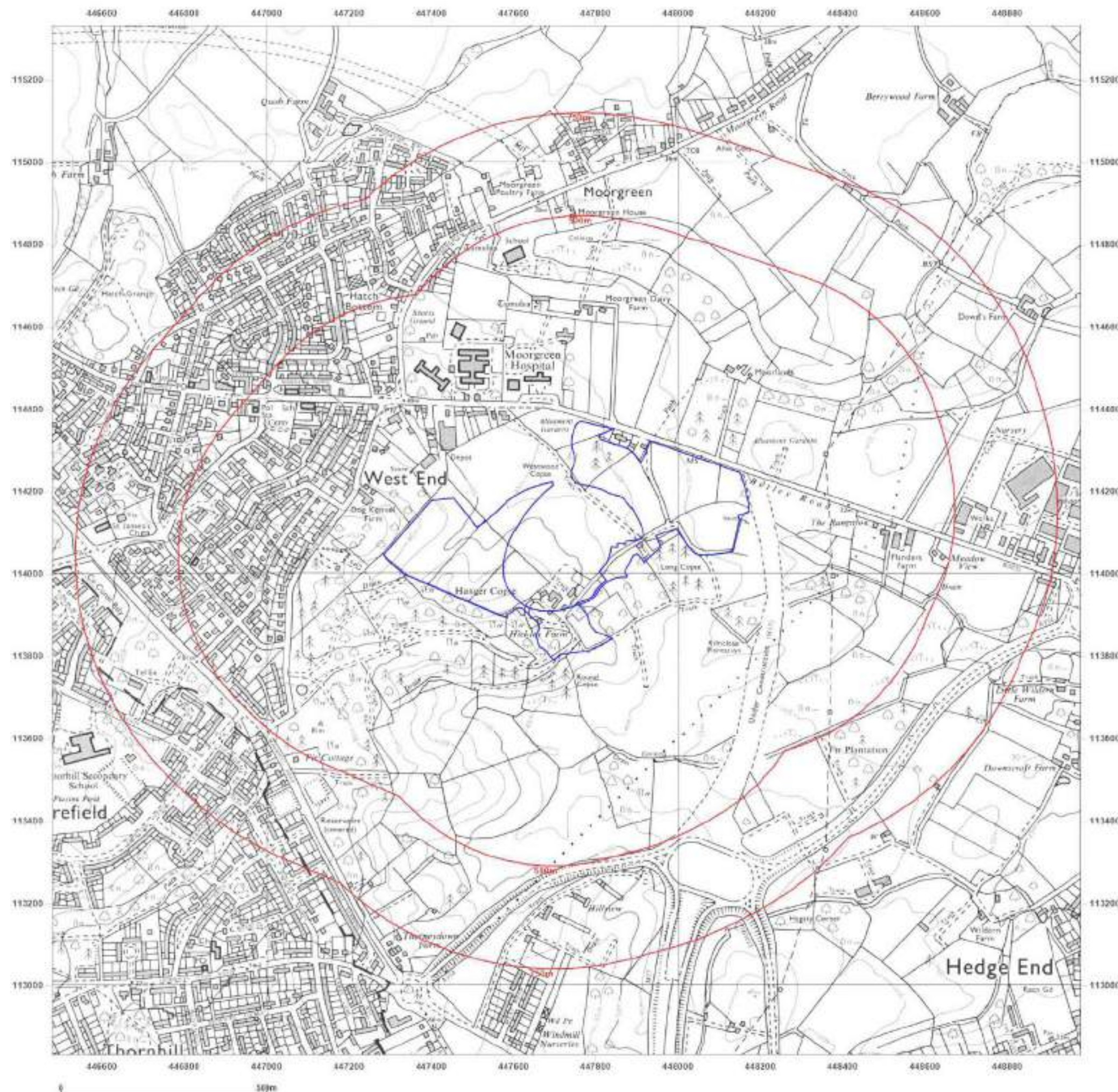


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: National Grid

Map date: 1987

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1985
 Revised 1987
 Edition N/A
 Copyright N/A
 Levelled N/A

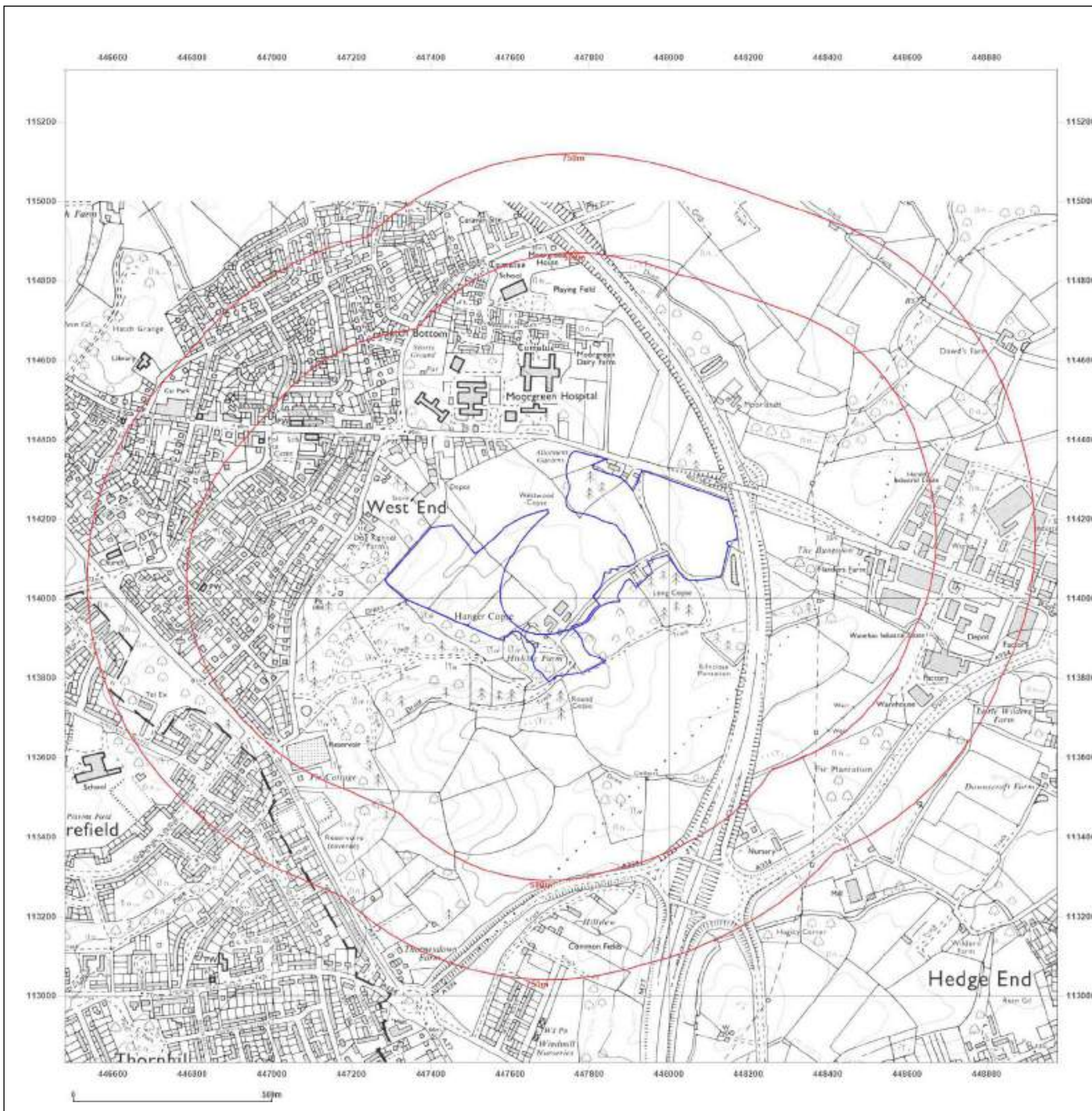


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: National Grid

Map date: 1989-1993

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1988
 Revised 1989
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1991
 Revised 1993
 Edition N/A
 Copyright N/A
 Levelled N/A

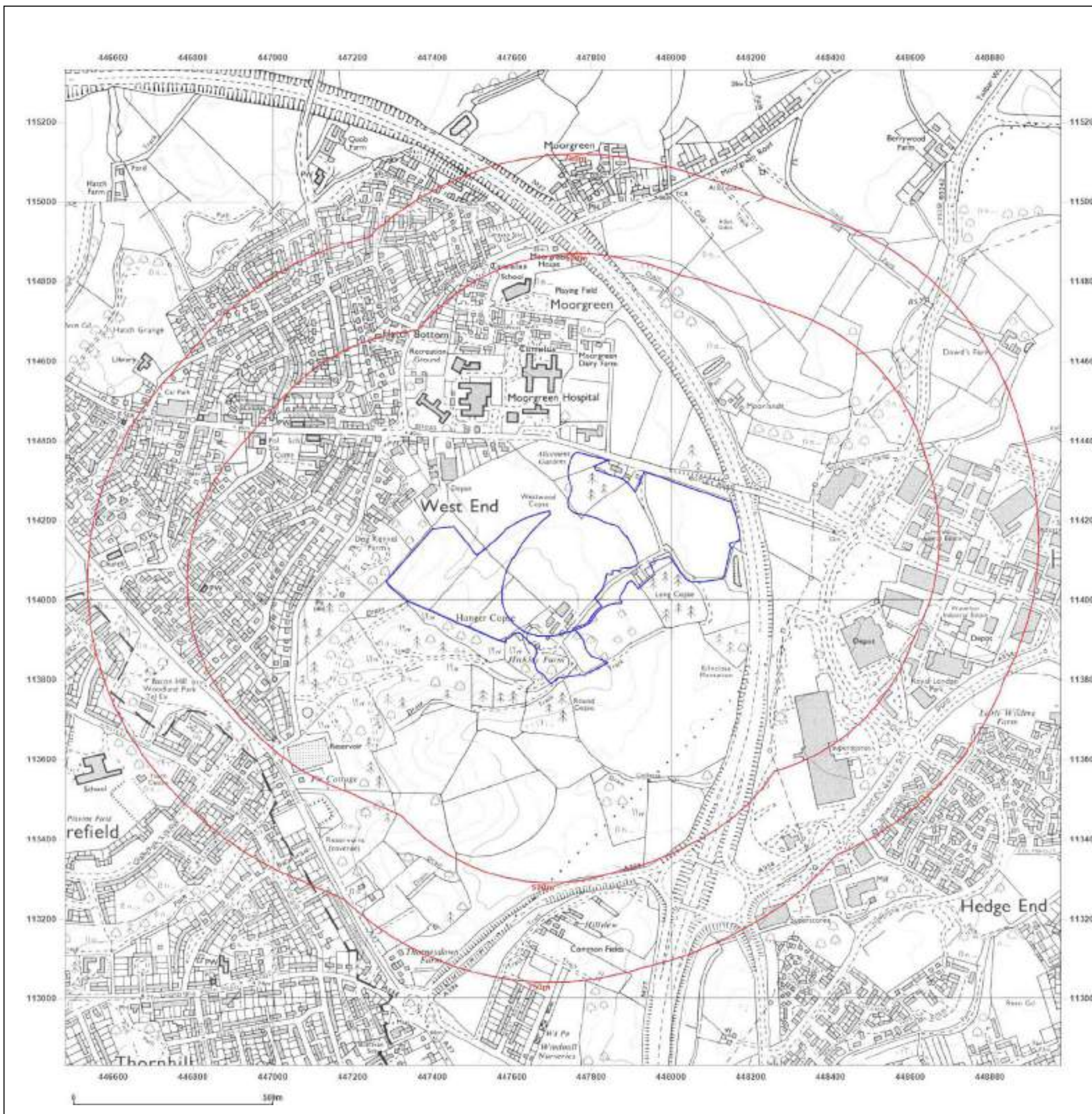


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

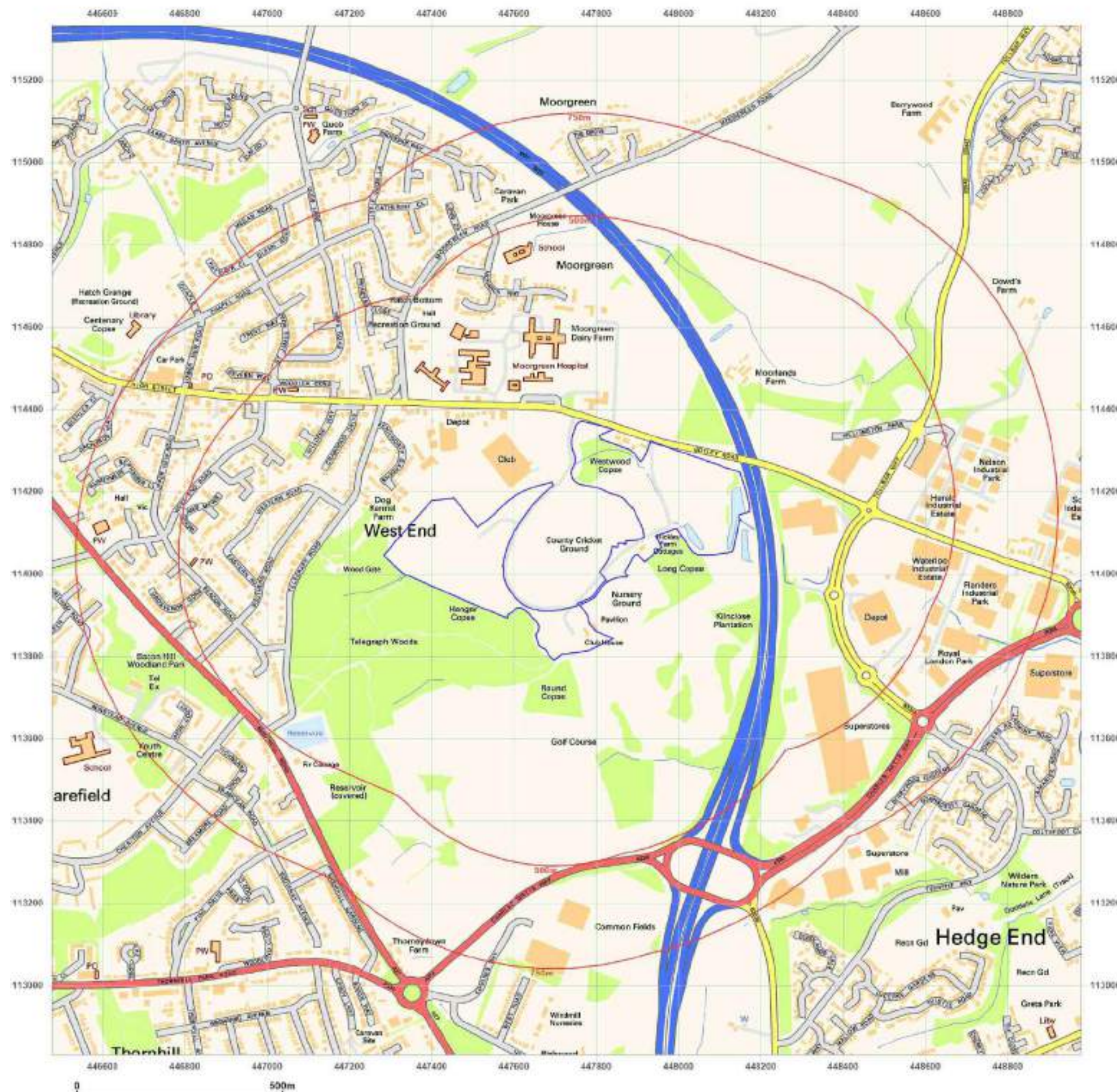


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Client Ref: 20136787
Report Ref: GS-8355426
Grid Ref: 447728, 114082

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at: 1:10,000

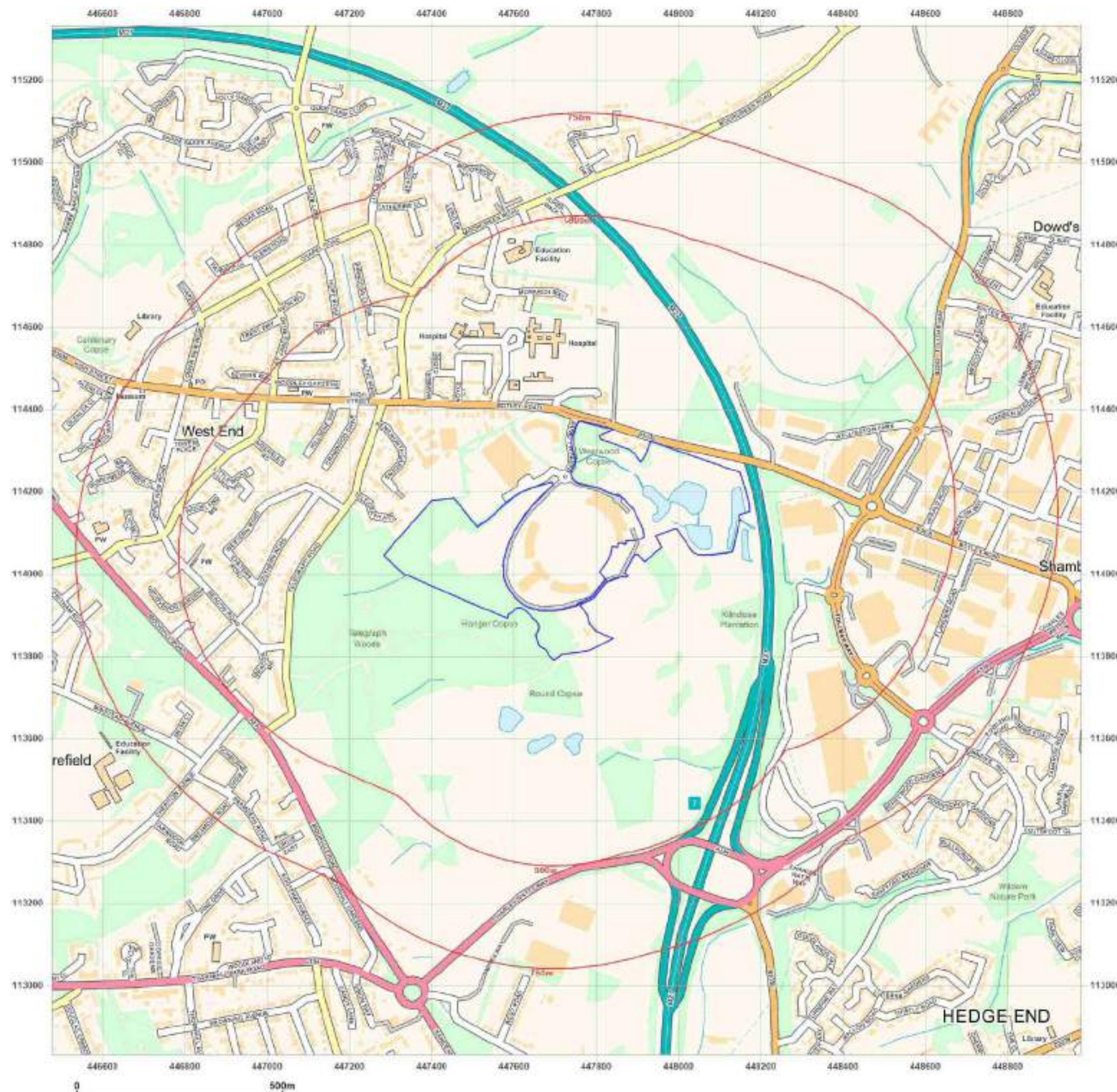


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1:1,250 Scale Grid Index



Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_1250_1_1
Grid Ref: 447227, 113832

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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

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

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

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

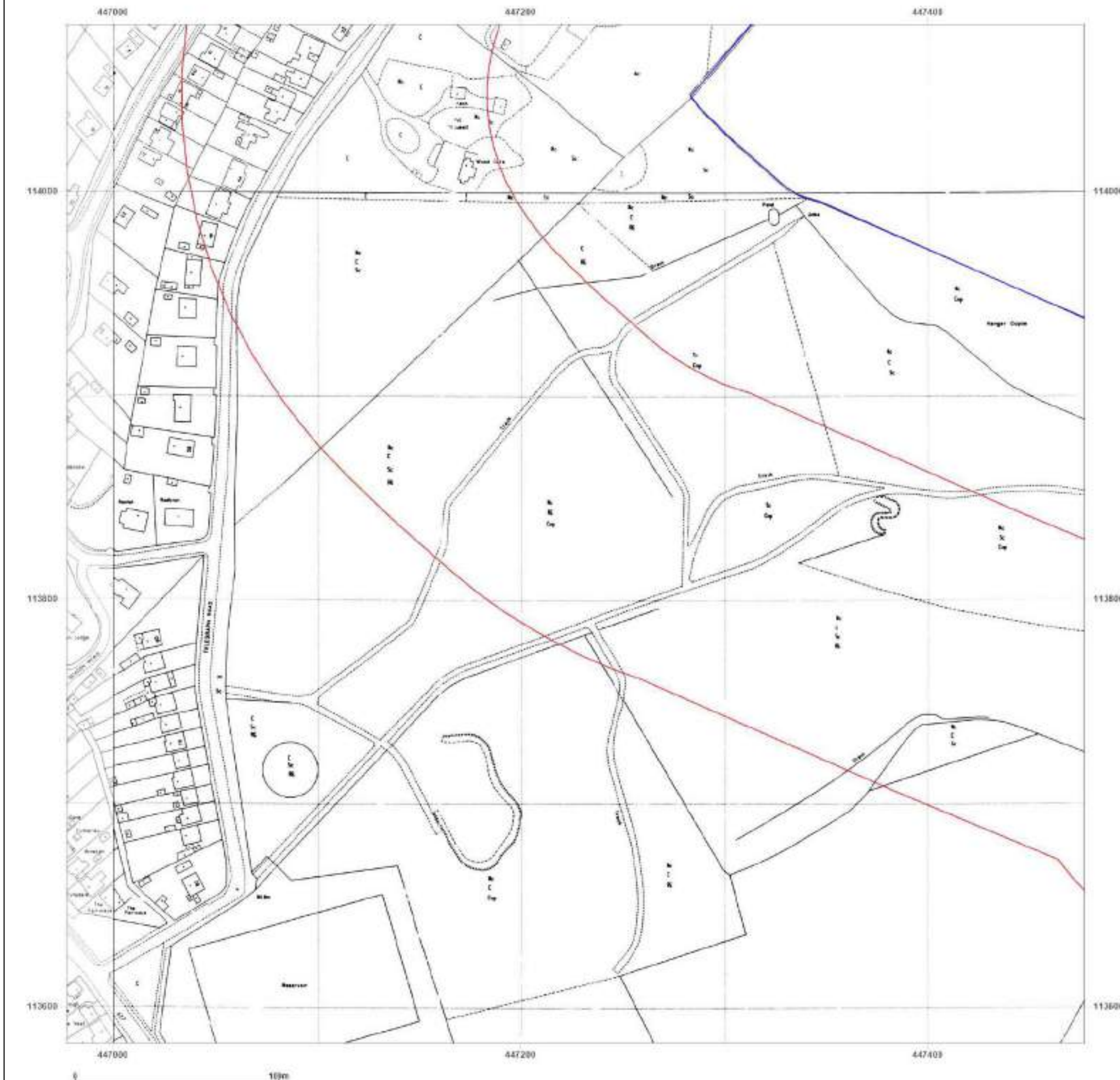


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_1250_1_1
Grid Ref: 447227, 113832

Map Name: National Grid

Map date: 1993-1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1995
 Revised N/A
 Edition N/A
 Copyright 1995
 Levelled N/A

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

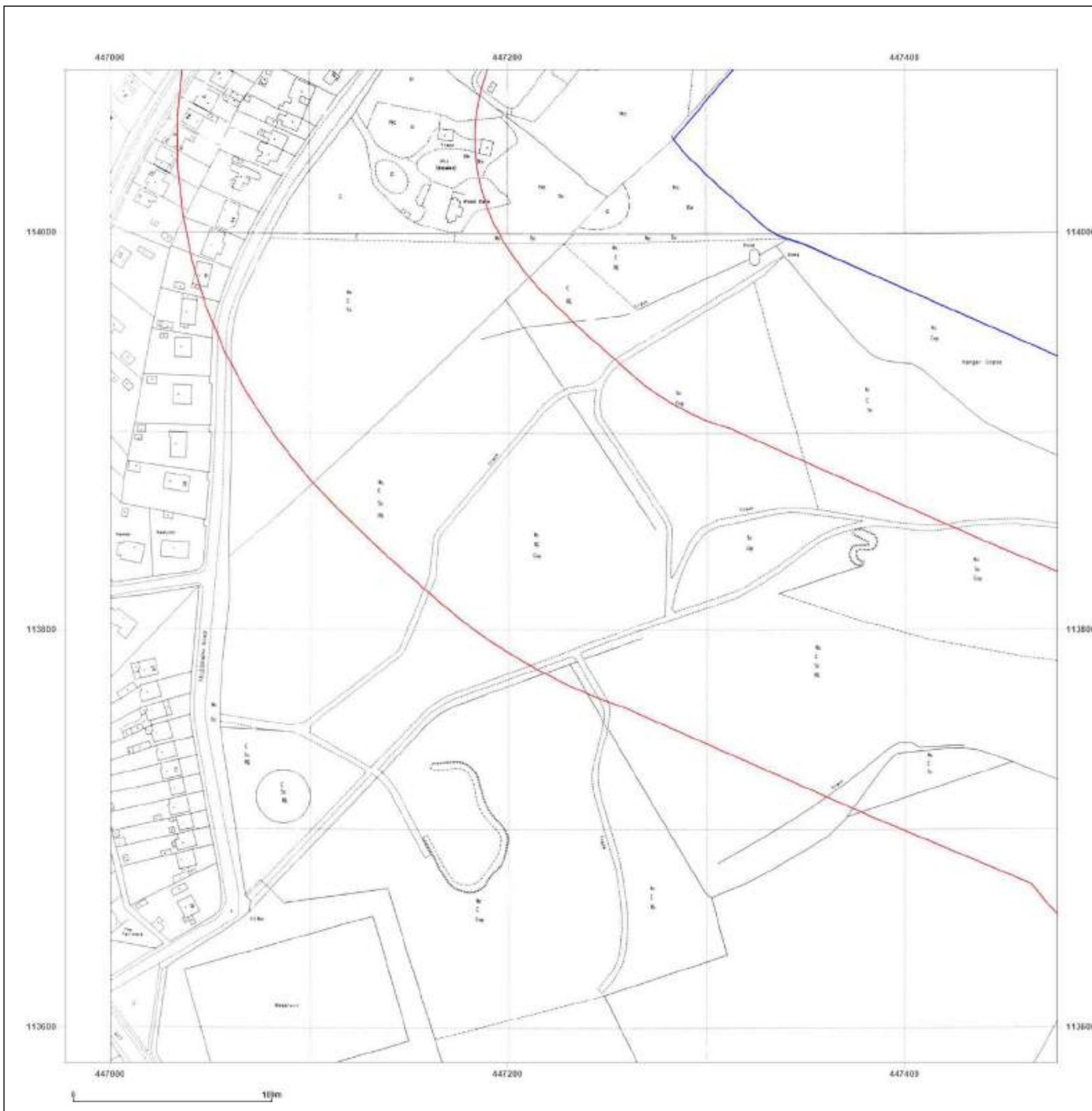


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_1250_1_2
Grid Ref: 447227, 114332

Map Name: National Grid

Map date: 1960-1962

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1950
 Revised 1960
 Edition N/A
 Copyright 1960
 Levelled 1947

Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

Surveyed 1950
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

Surveyed 1961
 Revised 1961
 Edition N/A
 Copyright 1962
 Levelled 1959

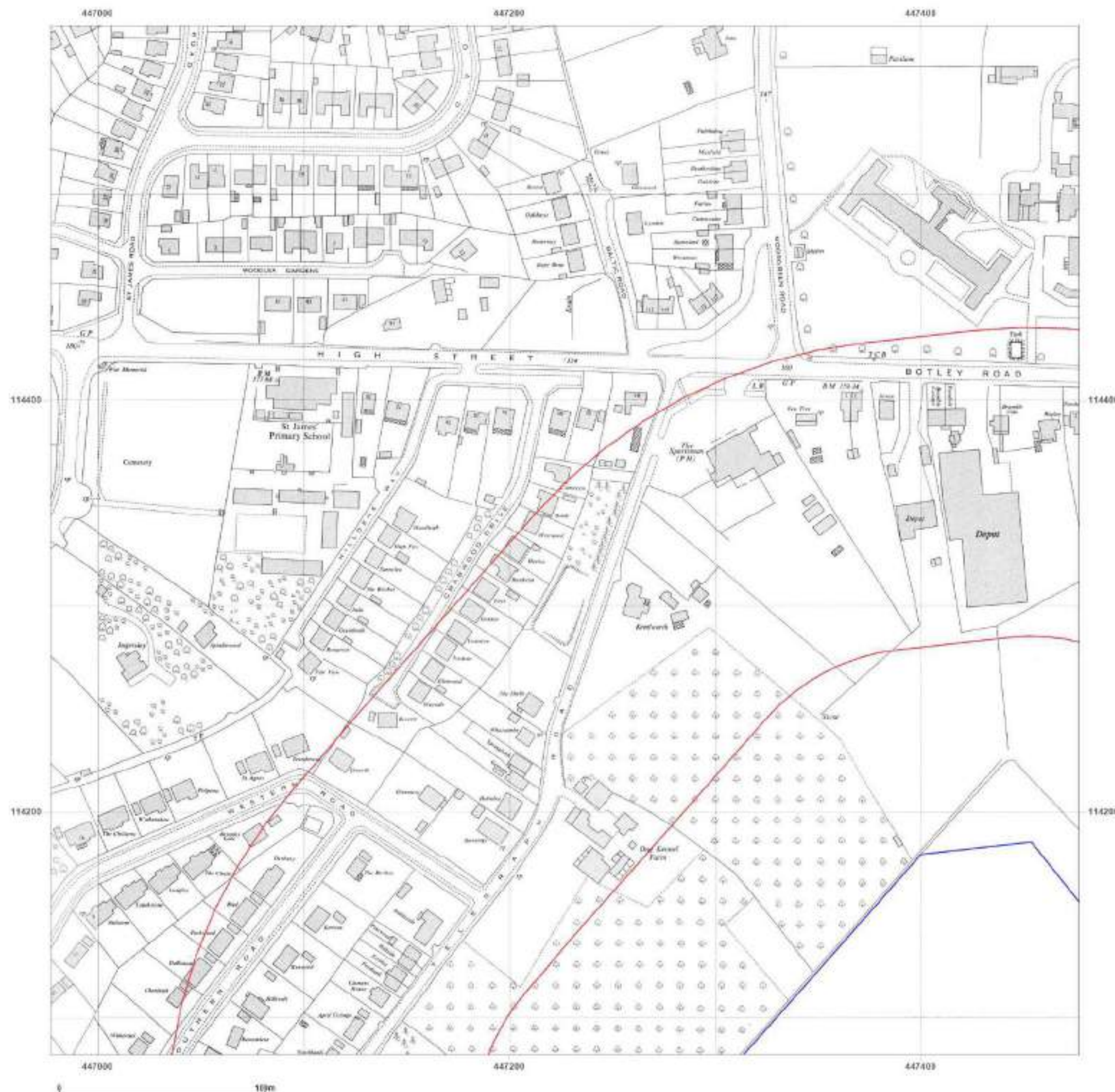


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Site Details:

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Client Ref: 20136787
Report Ref: GS-8355426_1250_1_2
Grid Ref: 447227, 114332

Map Name: National Grid

Map date: 1962-1965

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1965
Revised 1965
Edition N/A
Copyright 1965
Levelled 1959

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

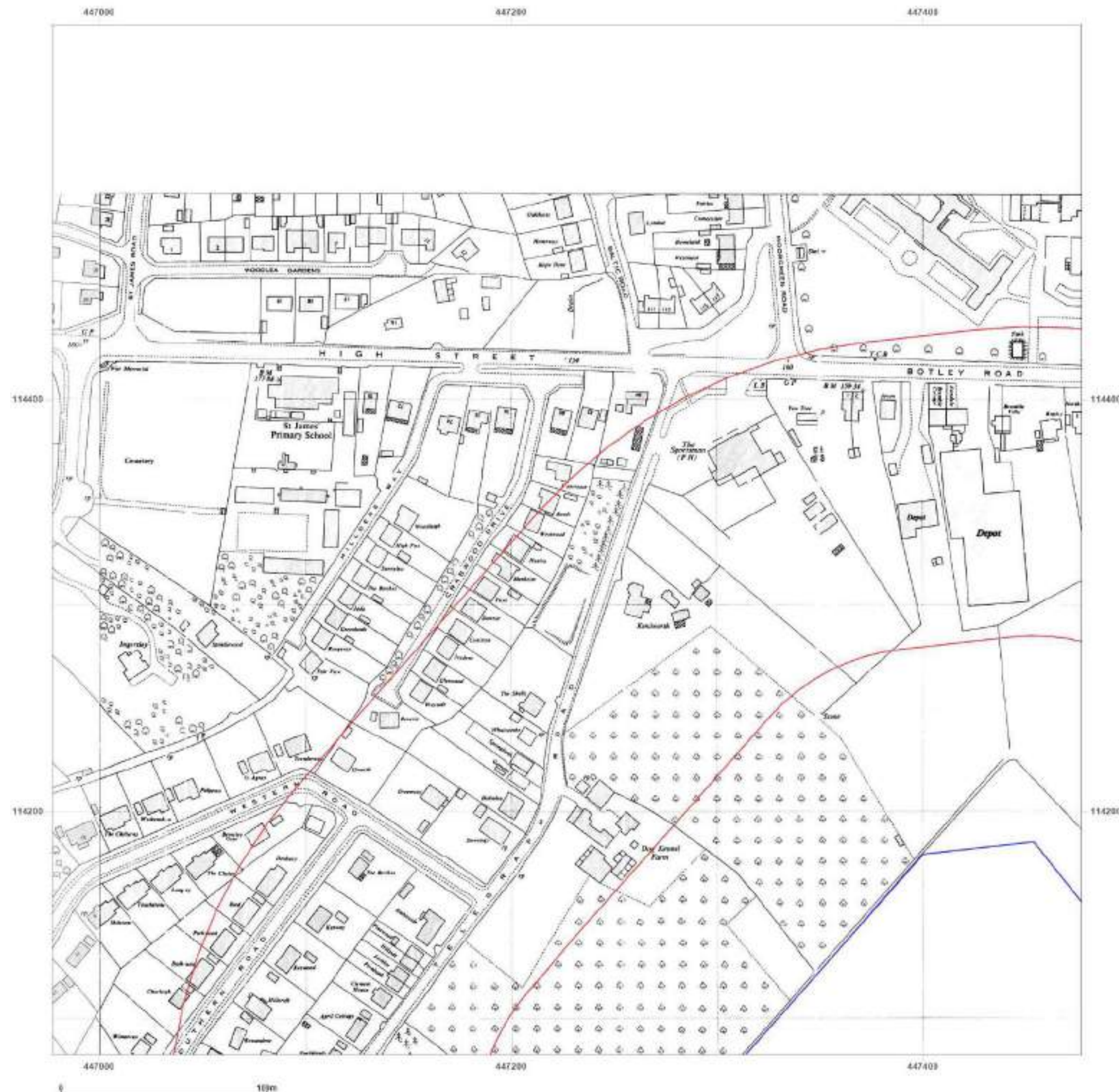


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_1250_1_2
Grid Ref: 447227, 114332

Map Name: National Grid

Map date: 1970-1974

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1961
 Revised 1970
 Edition N/A
 Copyright 1971
 Levelled 1959

Surveyed N/A
 Revised 1970
 Edition N/A
 Copyright 1970
 Levelled 1959

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1974
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Site Details:

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Client Ref: 20136787
Report Ref: GS-8355426_1250_1_2
Grid Ref: 447227, 114332

Map Name: National Grid

Map date: 1979

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1950
 Revised 1977
 Edition N/A
 Copyright 1979
 Levelled 1959

Surveyed 1961
 Revised 1976
 Edition N/A
 Copyright 1979
 Levelled 1959

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

Surveyed 1961
 Revised 1976
 Edition N/A
 Copyright 1979
 Levelled 1959

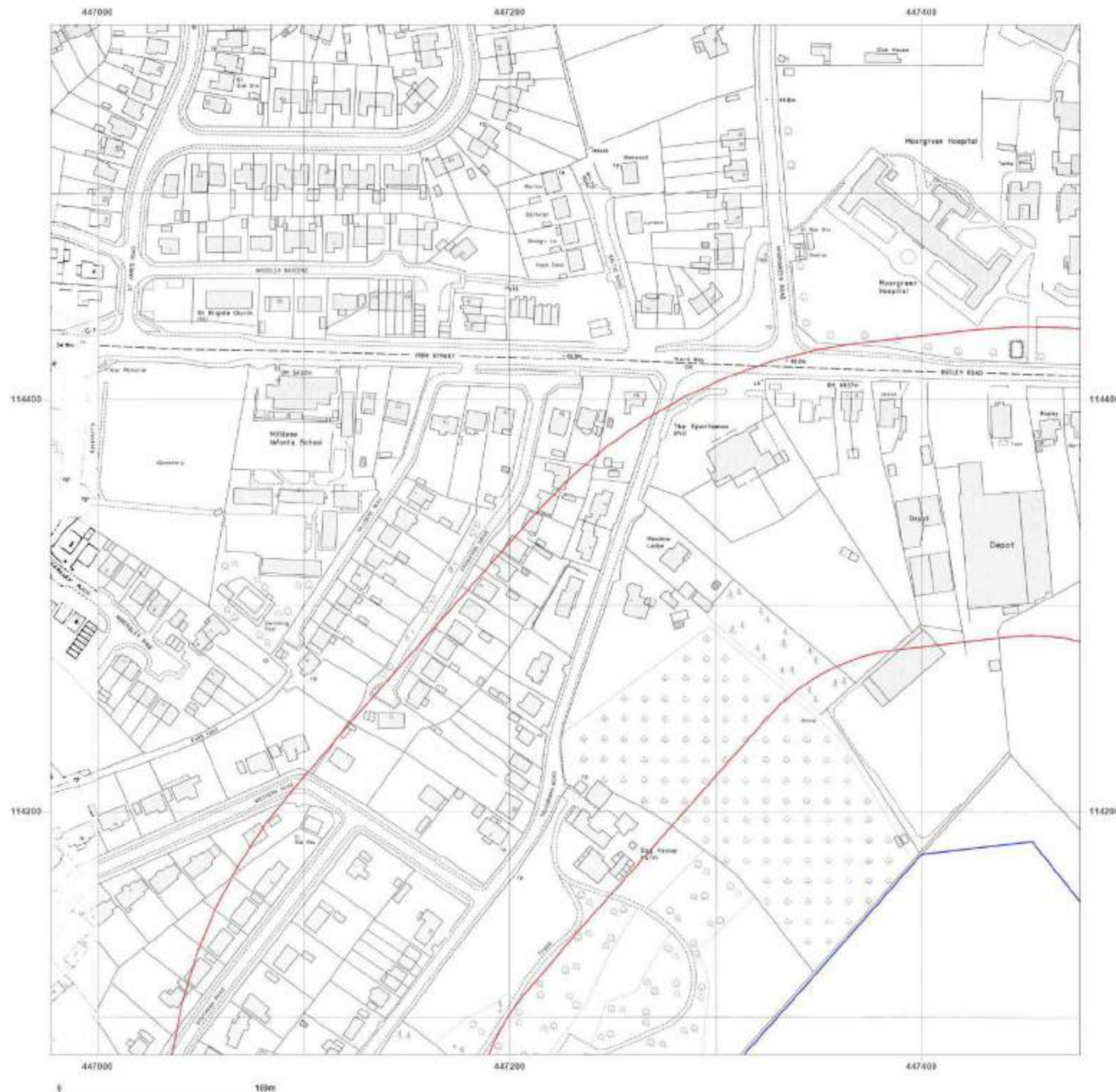


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Client Ref: 20136787
Report Ref: GS-8355426_1250_1_2
Grid Ref: 447227, 114332

Map Name: National Grid

Map date: 1989-1993

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1989
 Revised 1989
 Edition N/A
 Copyright 1989
 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
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Client Ref: 20136787
Report Ref: GS-8355426_1250_1_2
Grid Ref: 447227, 114332

Map Name: National Grid

Map date: 1993-1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1995
 Revised N/A
 Edition N/A
 Copyright 1995
 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 1995
 Levelled N/A

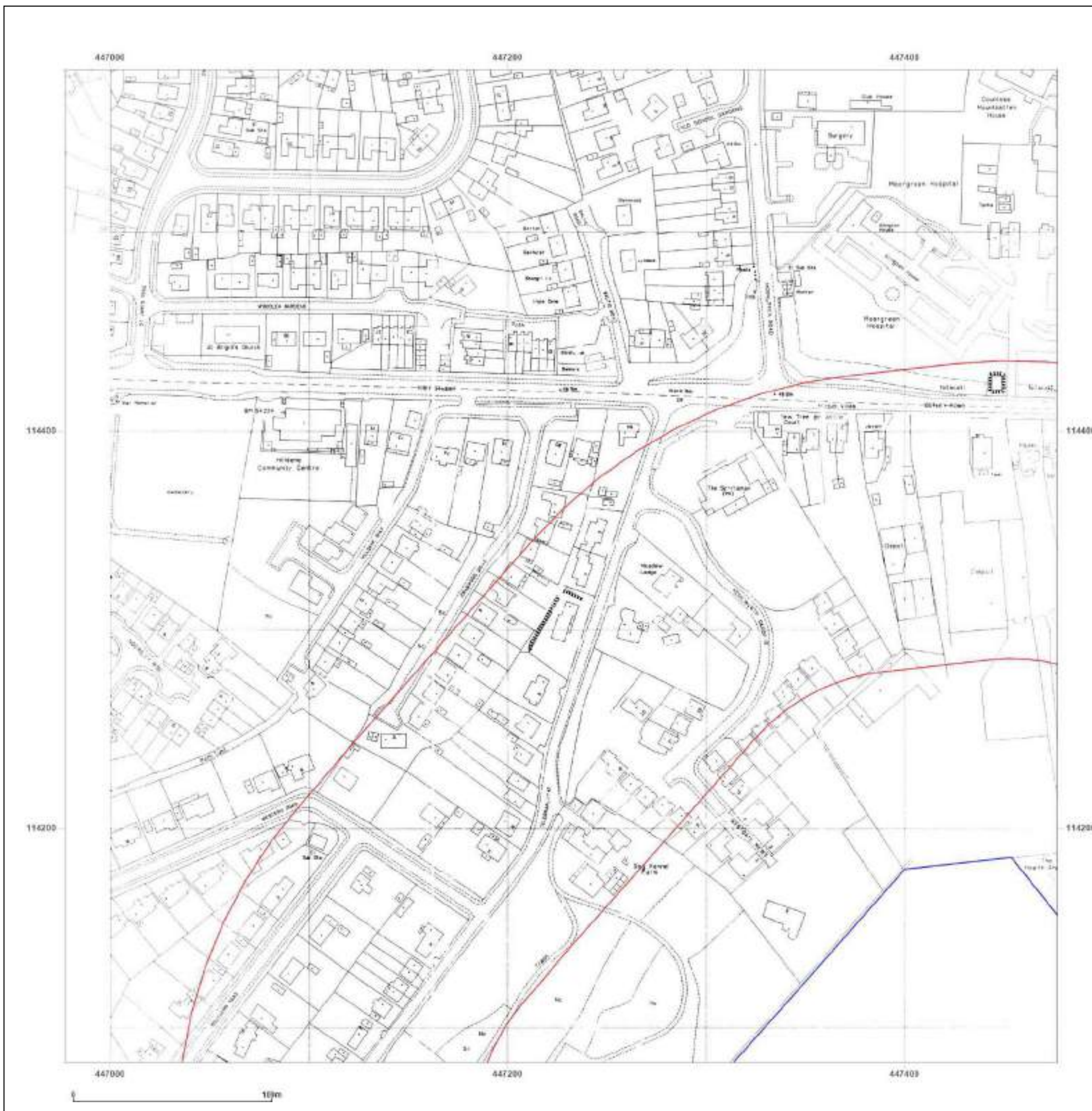


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Site Details:

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Client Ref: 20136787
Report Ref: GS-8355426_1250_1_2
Grid Ref: 447227, 114332

Map Name: National Grid

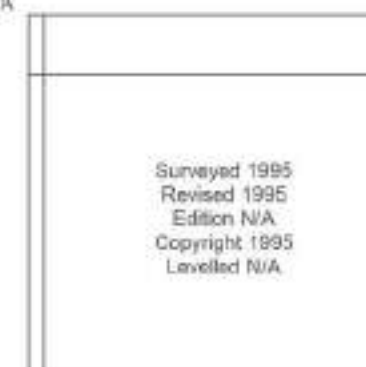
Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1995
 Revised 1995
 Edition N/A
 Copyright 1995
 Levelled N/A



Surveyed 1995
 Revised 1995
 Edition N/A
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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_1250_2_1
Grid Ref: 447727, 113832

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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

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

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

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

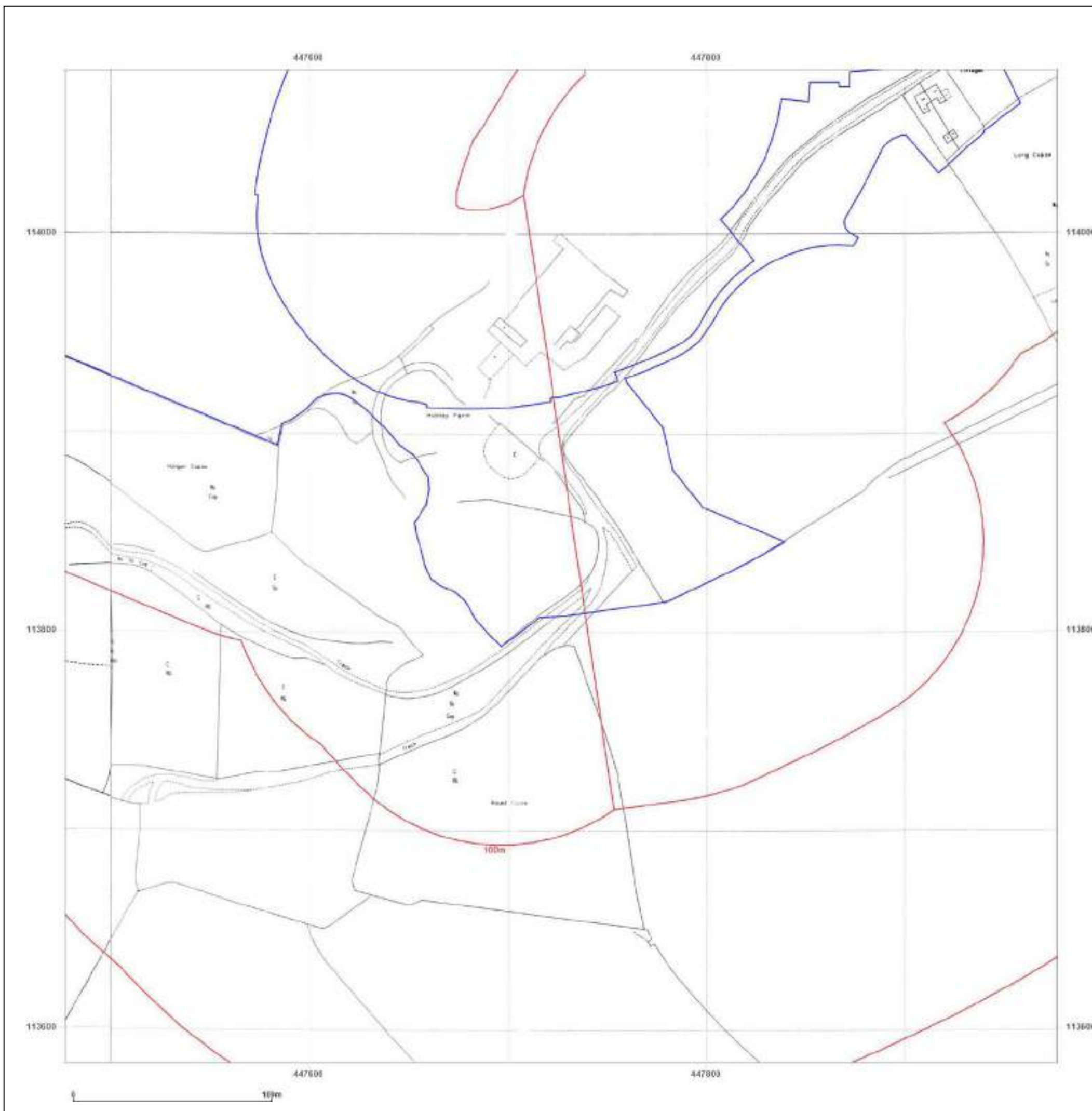


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_1250_2_2
Grid Ref: 447727, 114332

Map Name: National Grid

Map date: 1989-1993

Scale: 1:1,250

Printed at: 1:2,000



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

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

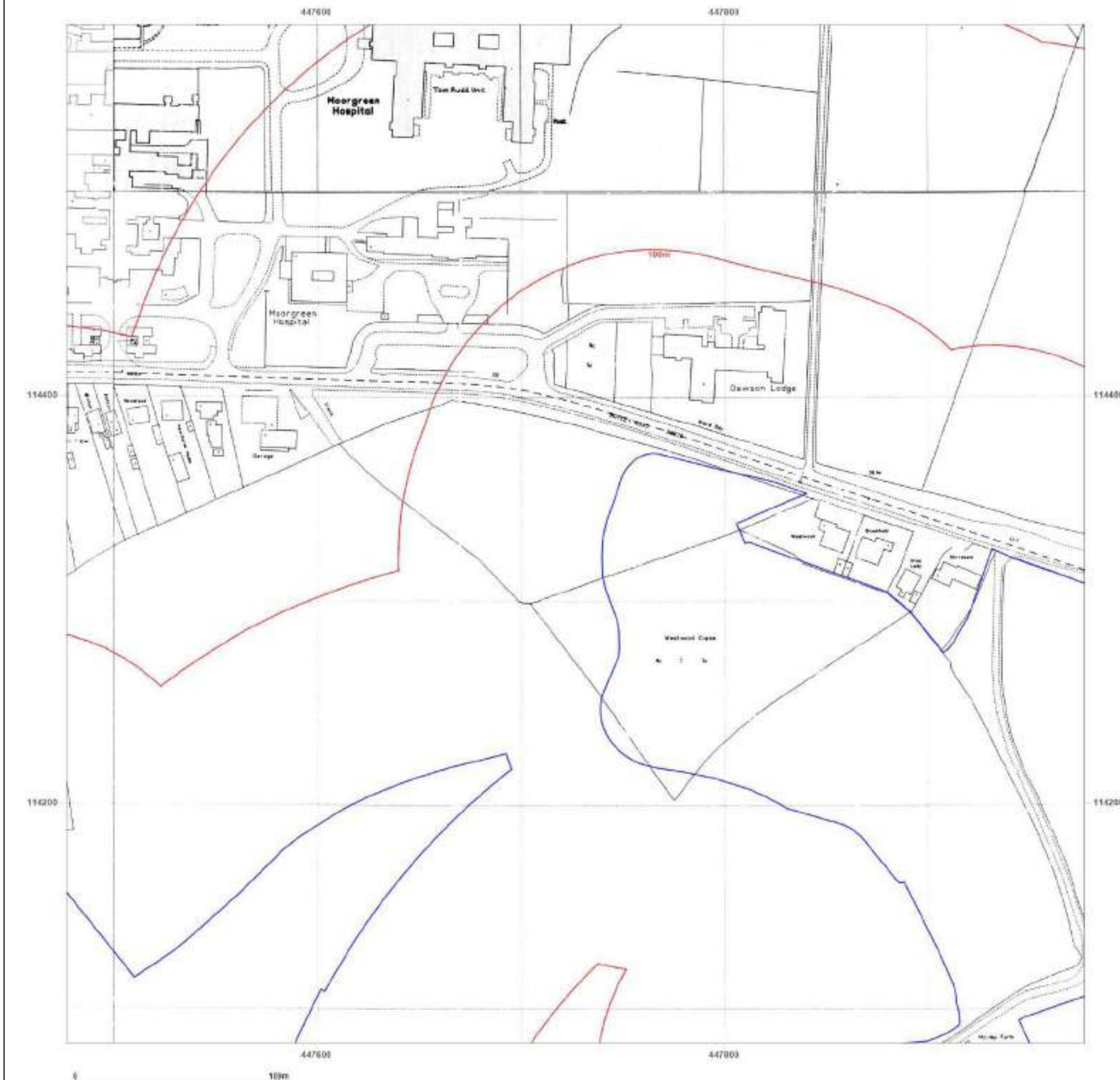


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Site Details:

447749 114067

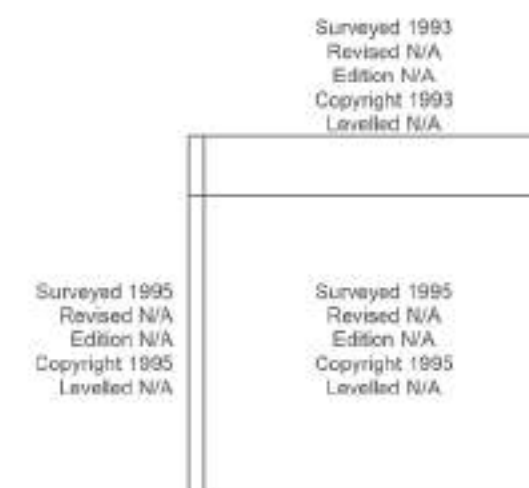
Client Ref: 20136787
Report Ref: GS-8355426_1250_2_2
Grid Ref: 447727, 114332

Map Name: National Grid

Map date: 1993-1995

Scale: 1:1,250

Printed at: 1:2,000

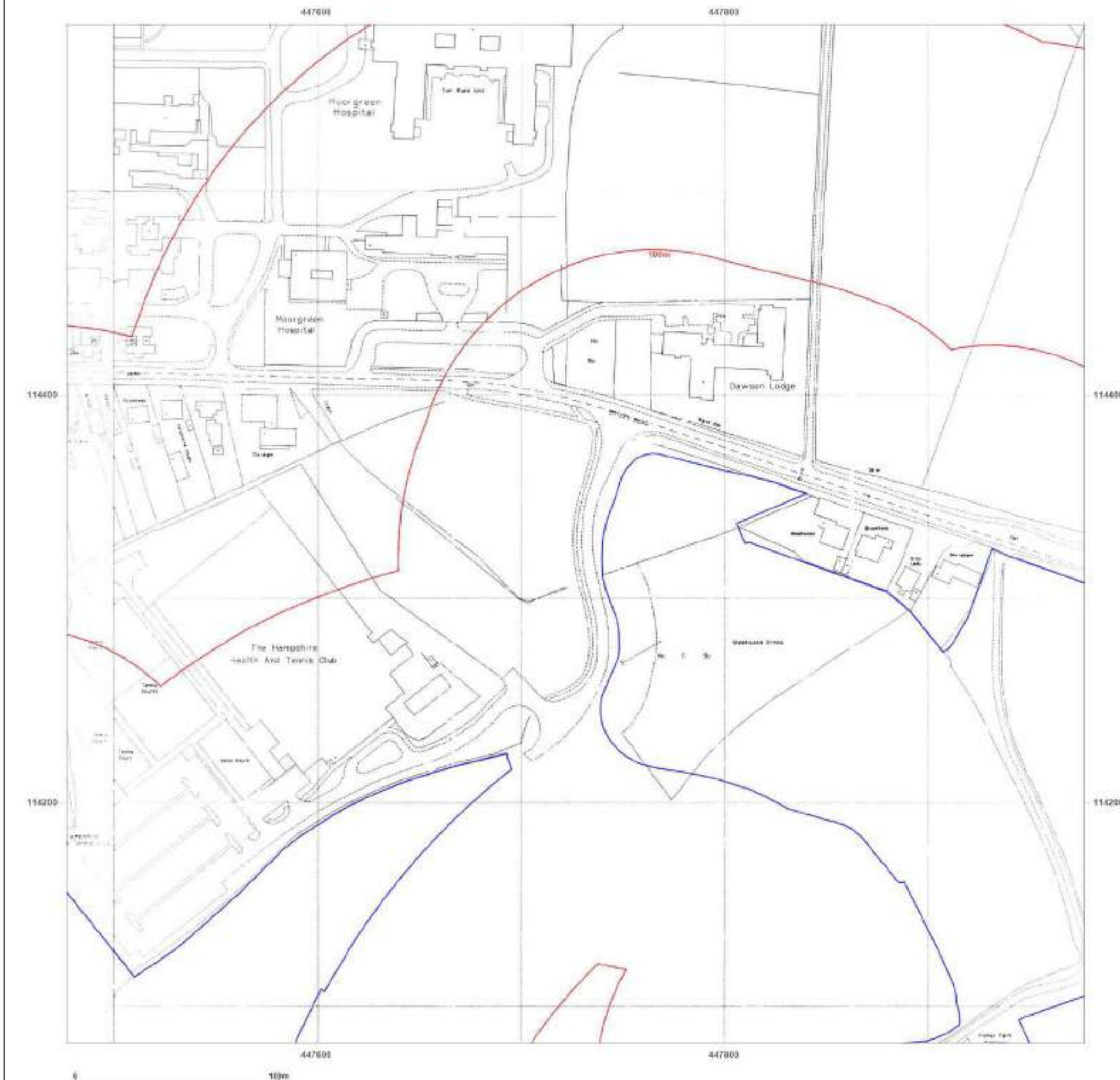


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_1250_2_2
Grid Ref: 447727, 114332

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1995
 Revised 1995
 Edition N/A
 Copyright 1995
 Levelled N/A

Surveyed 1995
 Revised 1995
 Edition N/A
 Copyright 1995
 Levelled N/A

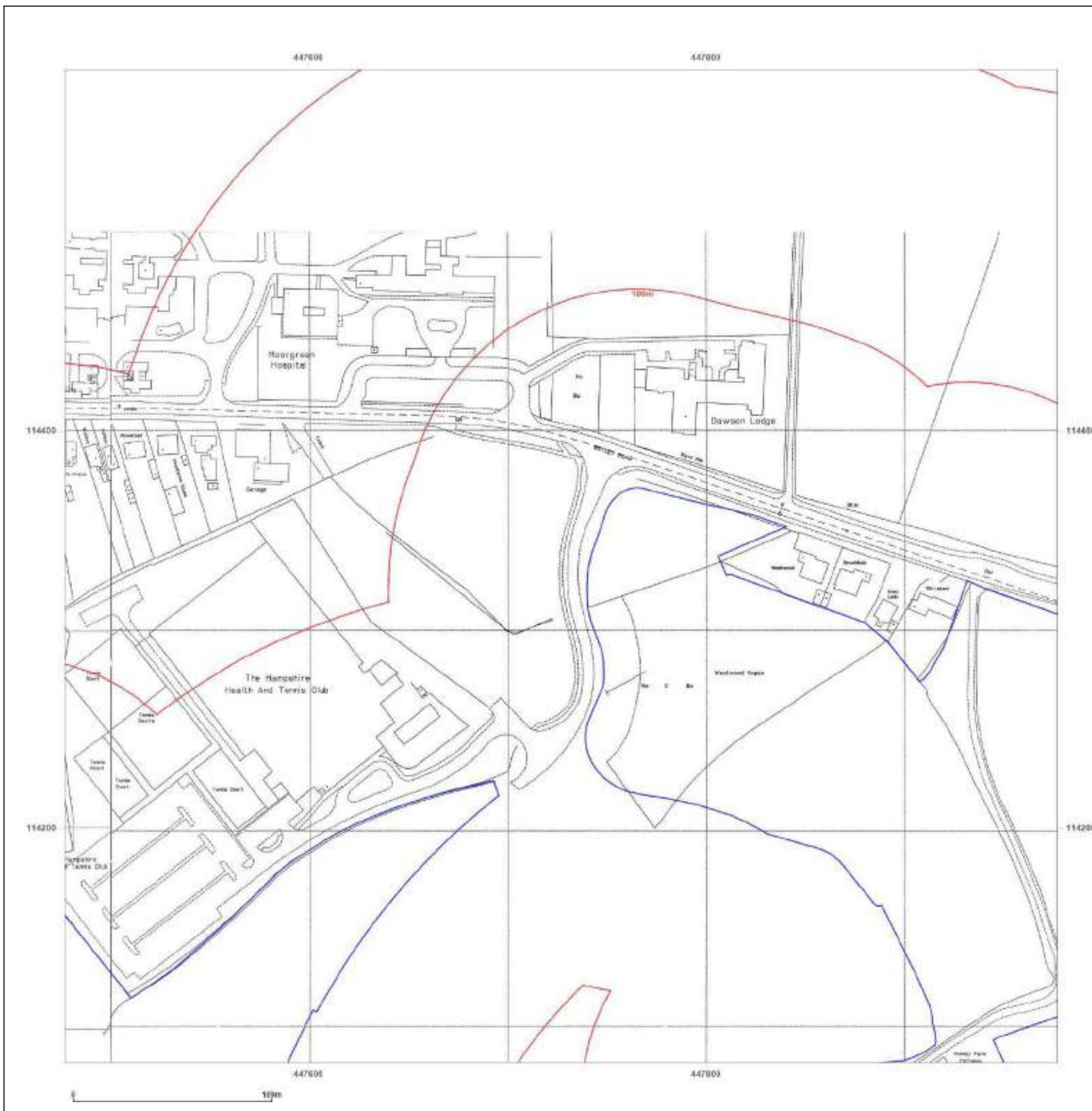


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_1250_3_1
Grid Ref: 448227, 113832

Map Name: National Grid

Map date: 1991-1993

Scale: 1:1,250

Printed at: 1:2,000



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

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

Surveyed 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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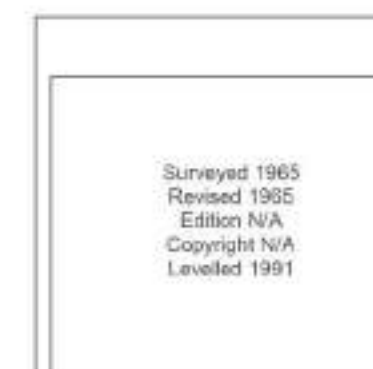
Client Ref: 20136787
Report Ref: GS-8355426_1250_3_2
Grid Ref: 448227, 114332

Map Name: National Grid

Map date: 1965

Scale: 1:1,250

Printed at: 1:2,000

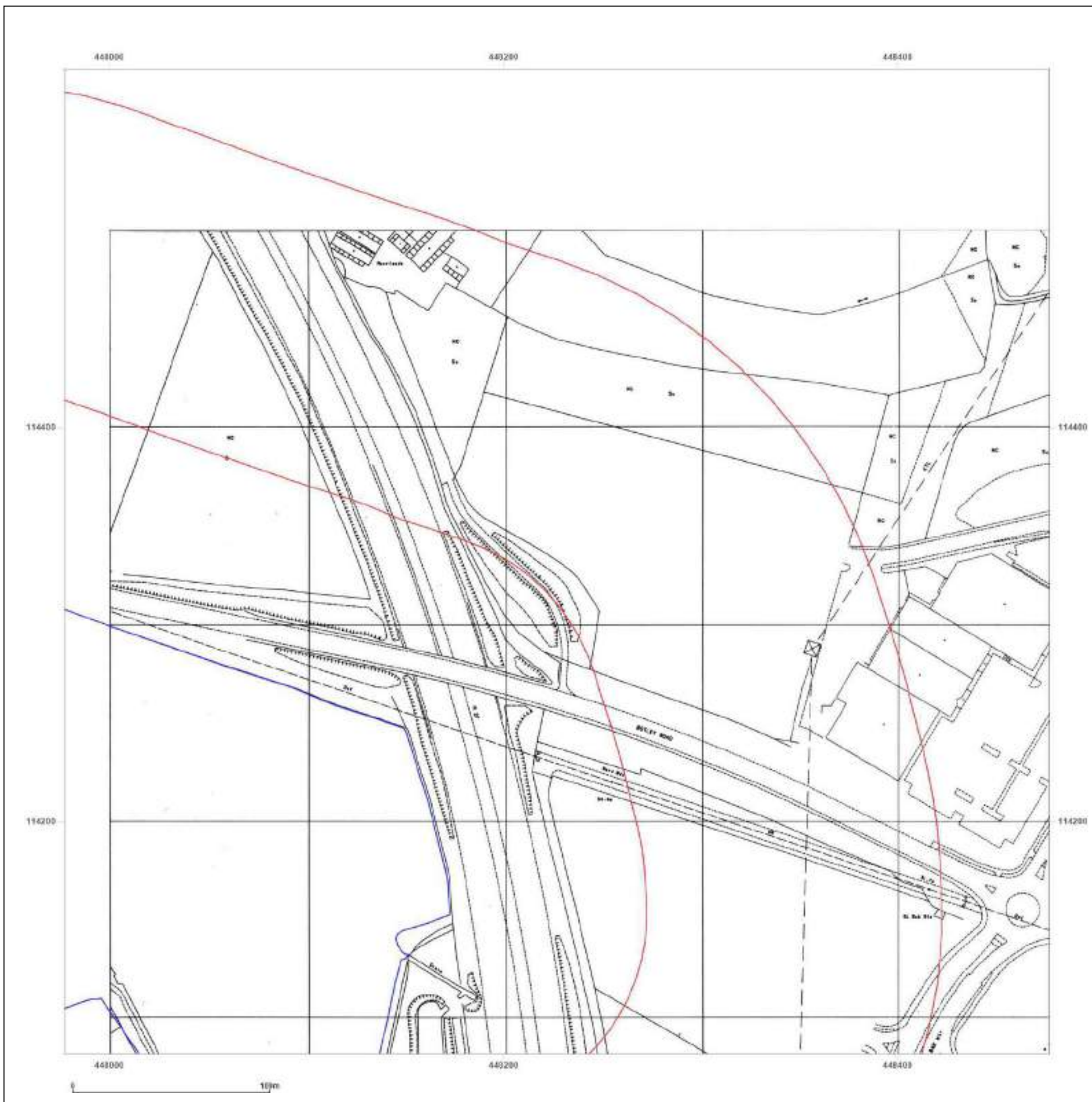


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_1250_3_2
Grid Ref: 448227, 114332

Map Name: National Grid

Map date: 1989-1993

Scale: 1:1,250

Printed at: 1:2,000



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

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

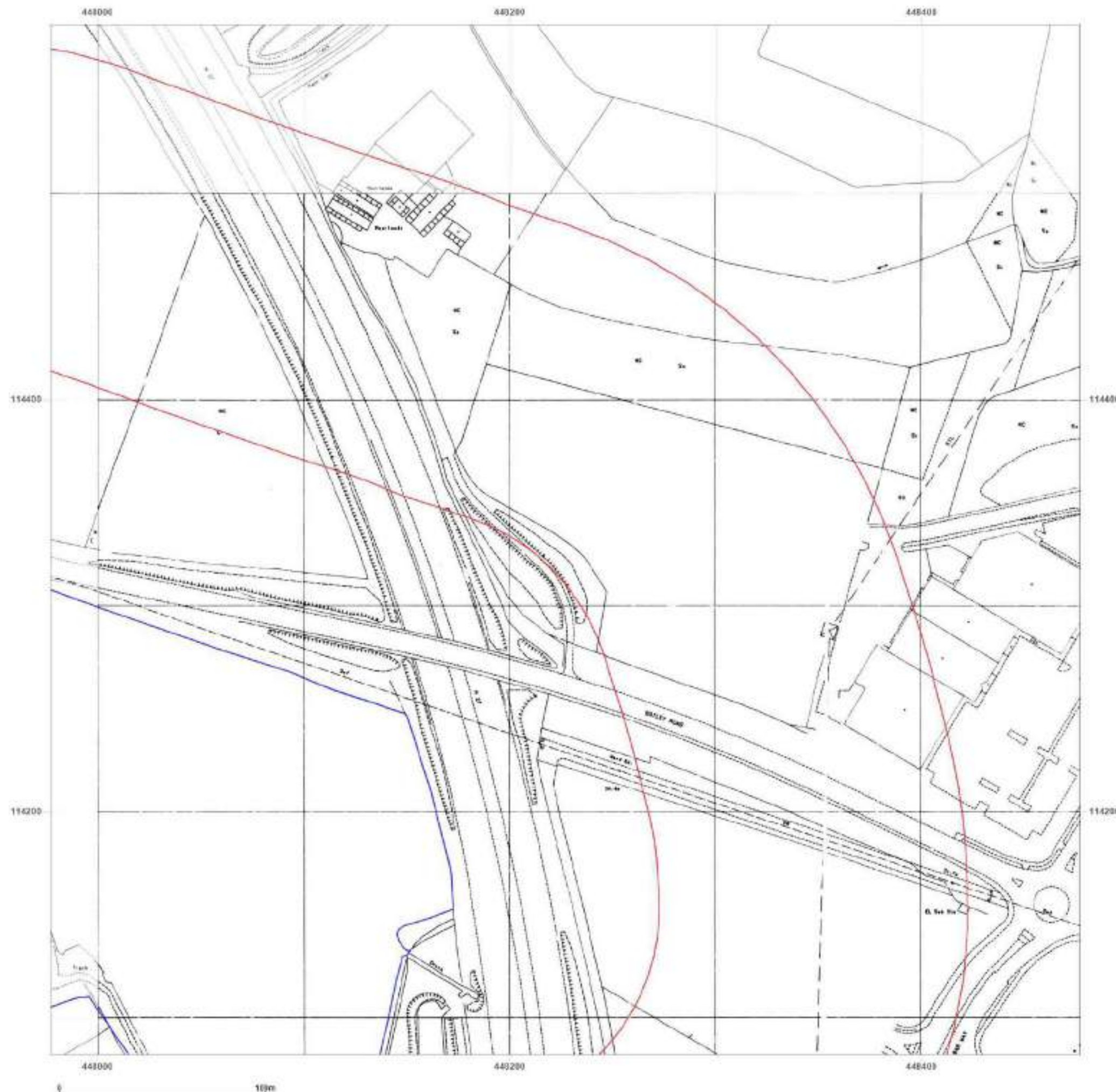


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Site Details:

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Client Ref: 20136787
Report Ref: GS-8355426_1250_3_2
Grid Ref: 448227, 114332

Map Name: National Grid

Map date: 1993-1995

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1995
 Revised N/A
 Edition N/A
 Copyright 1995
 Levelled N/A

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

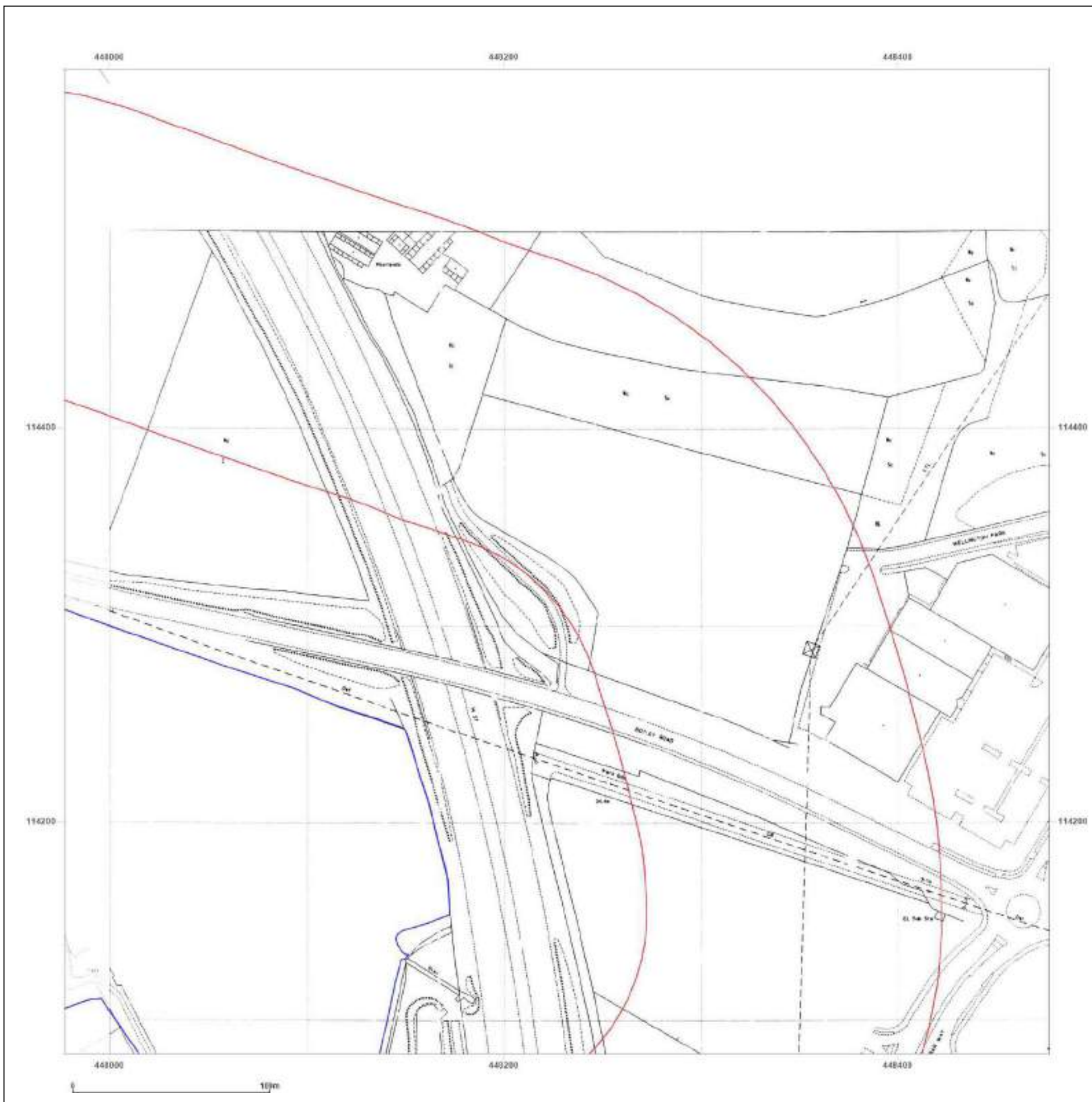


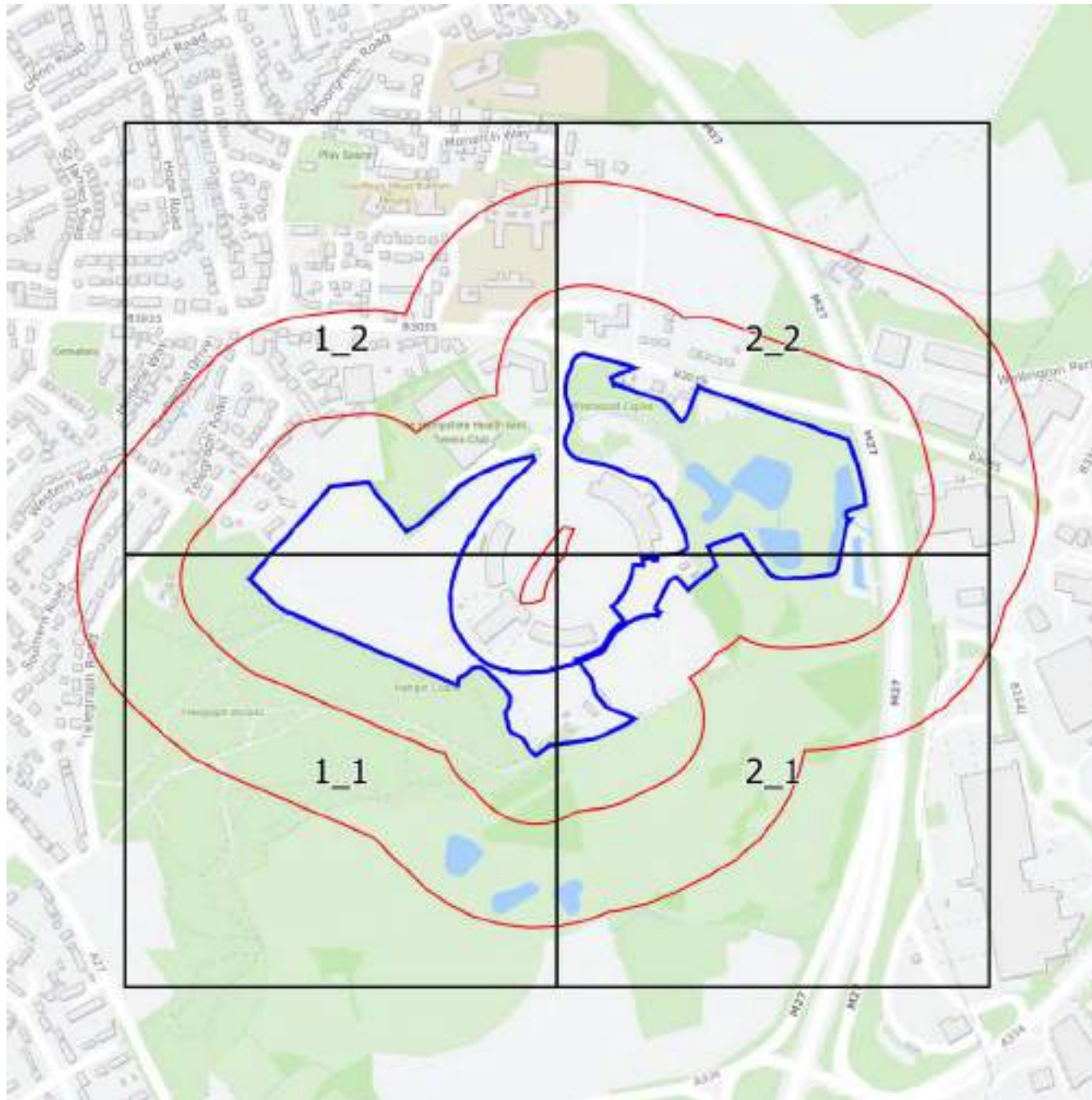
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1:2,500 Scale Grid Index



Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_1
Grid Ref: 447414, 113769

Map Name: County Series

Map date: 1869

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1868
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

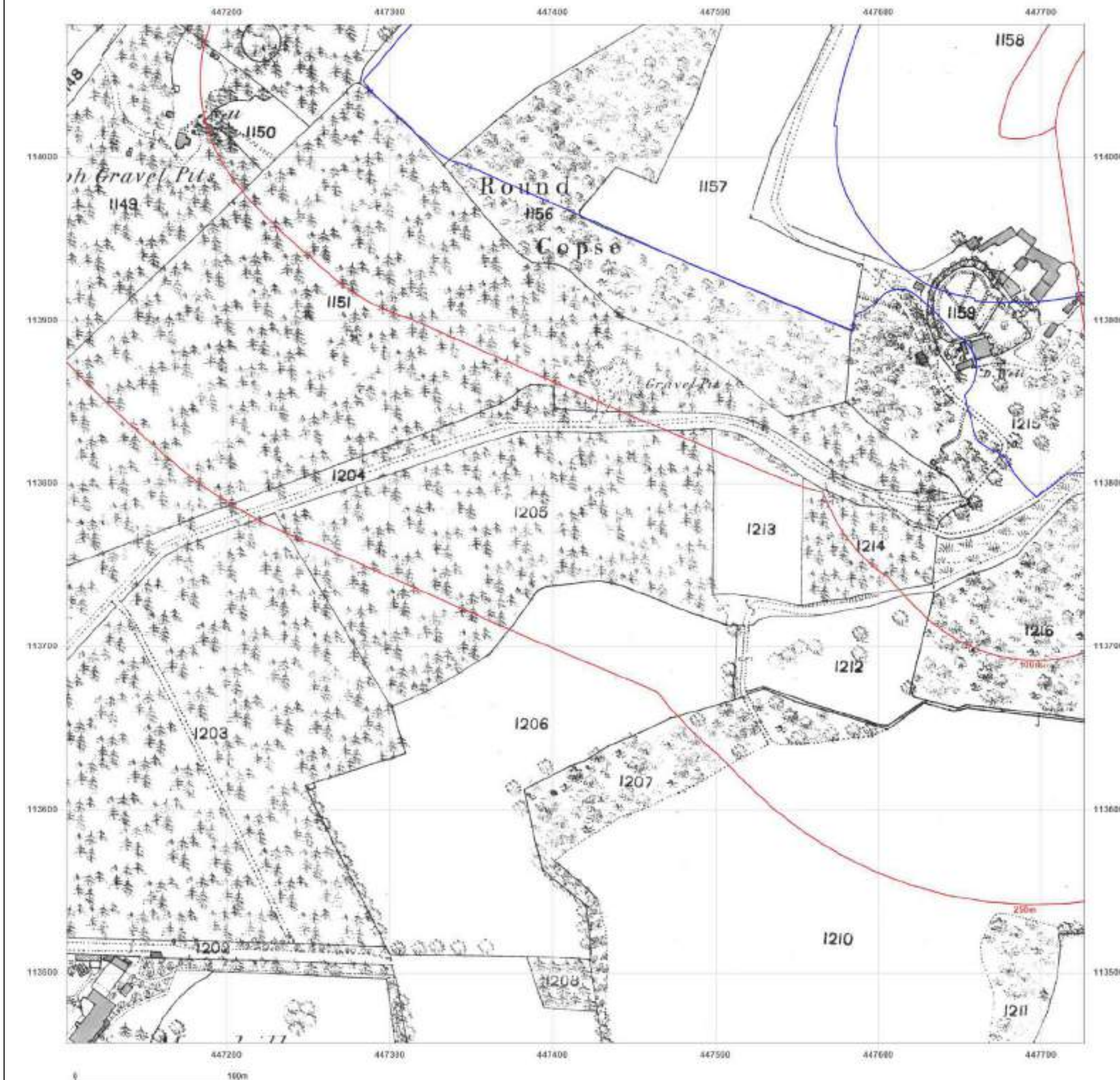


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_1
Grid Ref: 447414, 113769

Map Name: County Series

Map date: 1896

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1896
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

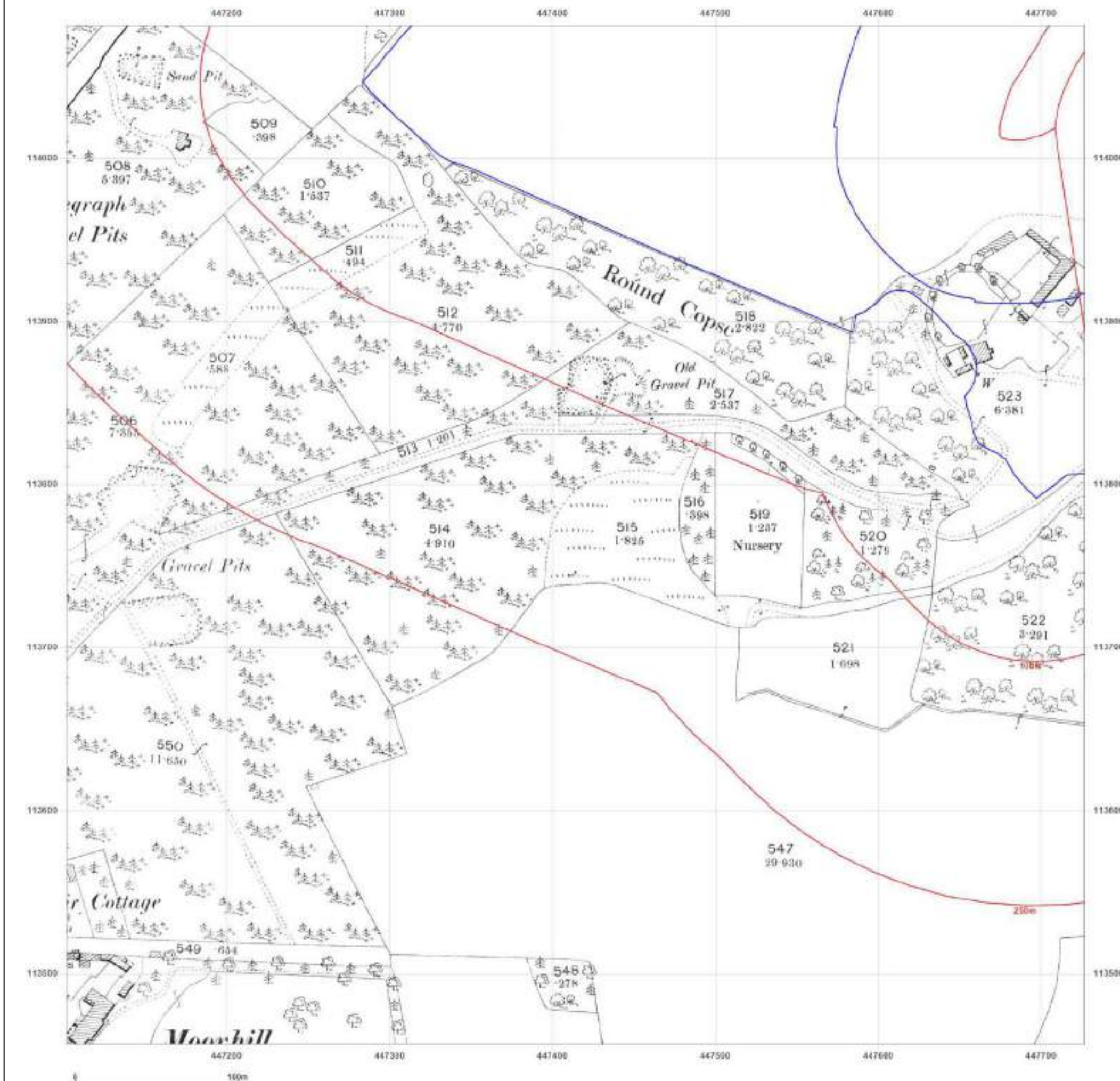


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_1
Grid Ref: 447414, 113769

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

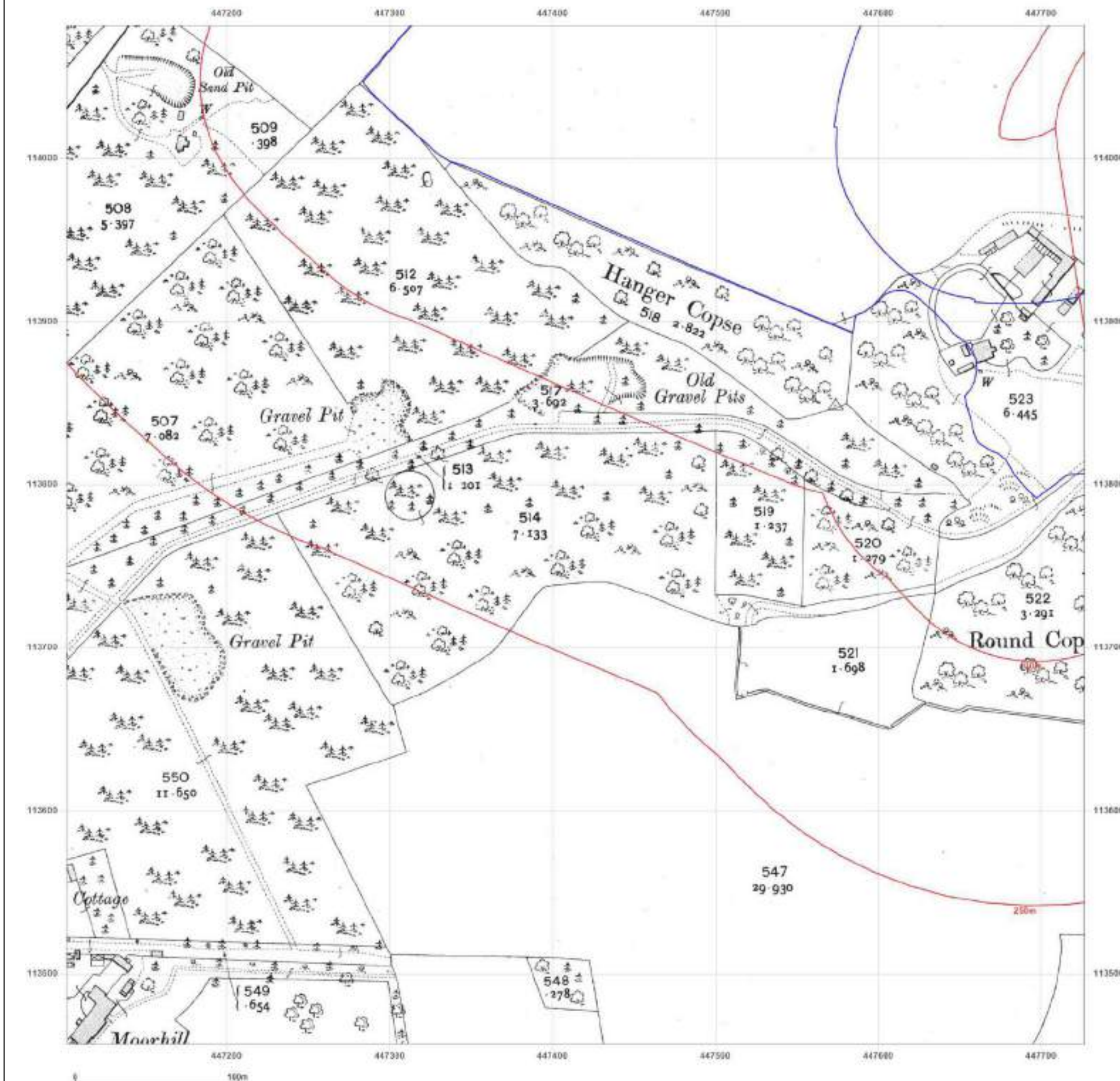


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_1
Grid Ref: 447414, 113769

Map Name: County Series

Map date: 1940

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1940
Revised 1940
Edition N/A
Copyright N/A
Levelled N/A

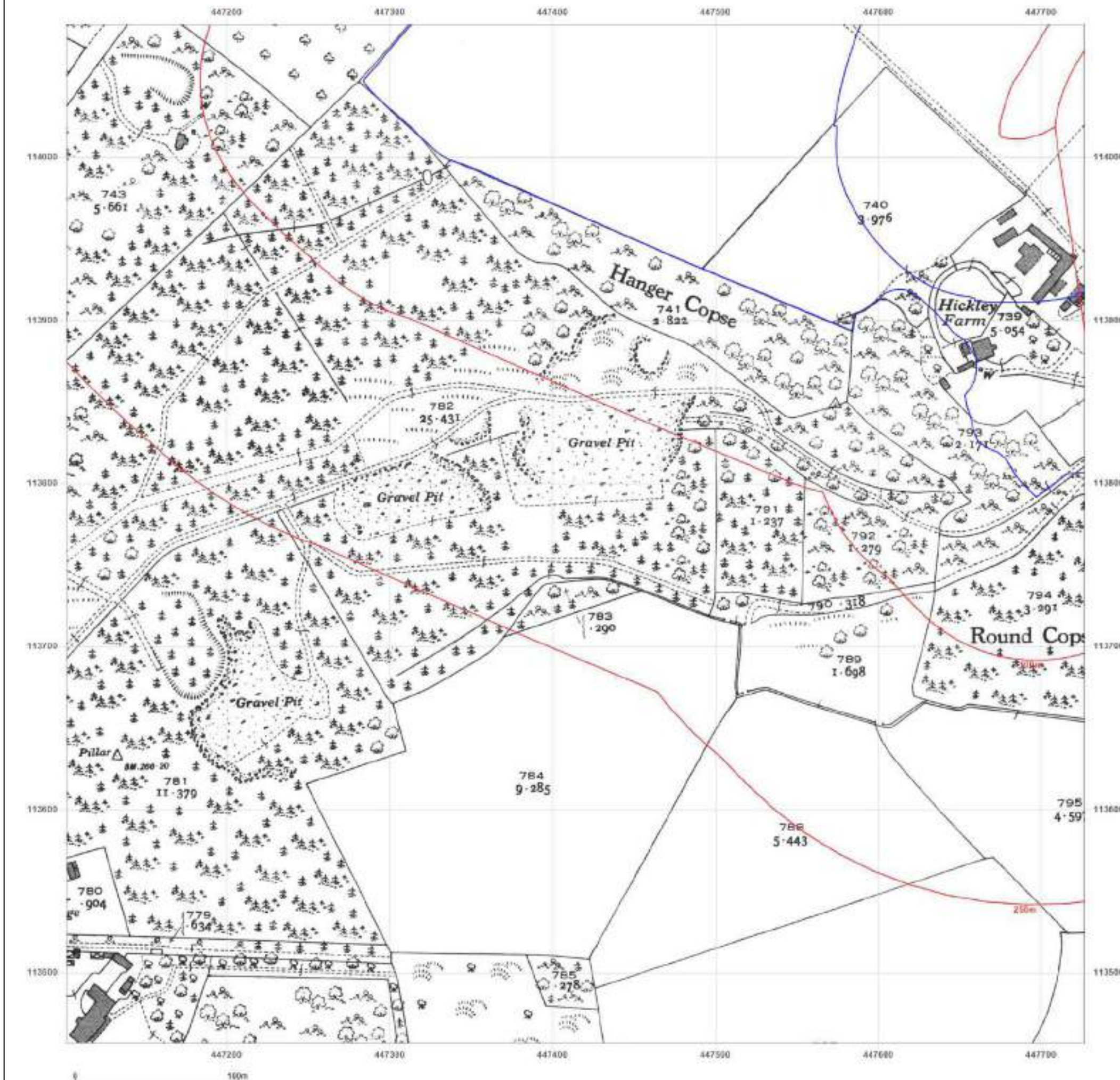


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_1
Grid Ref: 447414, 113769

Map Name: National Grid

Map date: 1959

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Landed 1959

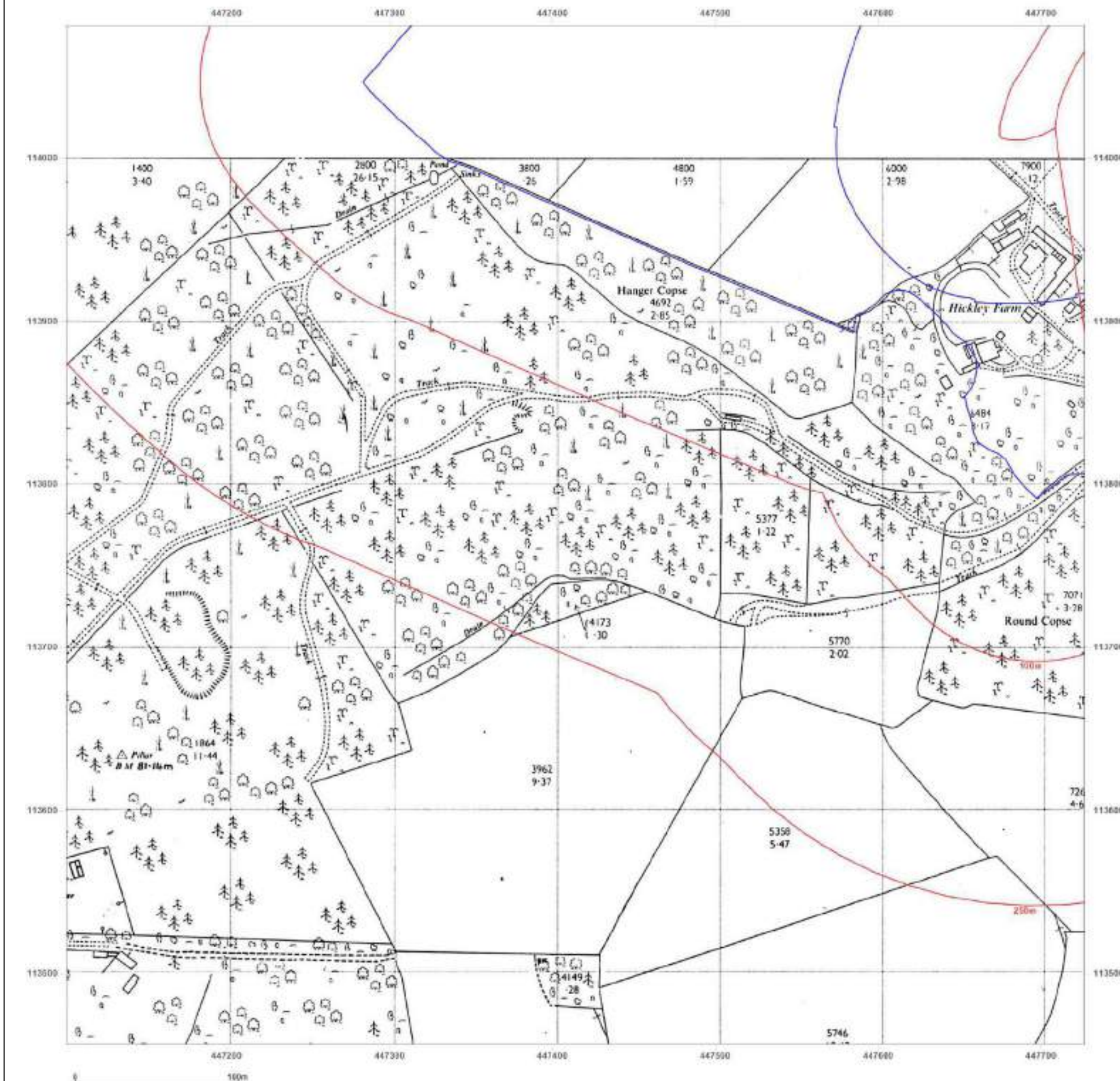


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_1
Grid Ref: 447414, 113769

Map Name: National Grid

Map date: 1965-1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1965
 Revised 1965
 Edition 1965
 Copyright 1965
 Levelled 1959

Surveyed 1965
 Revised 1965
 Edition 1965
 Copyright 1965
 Levelled 1959

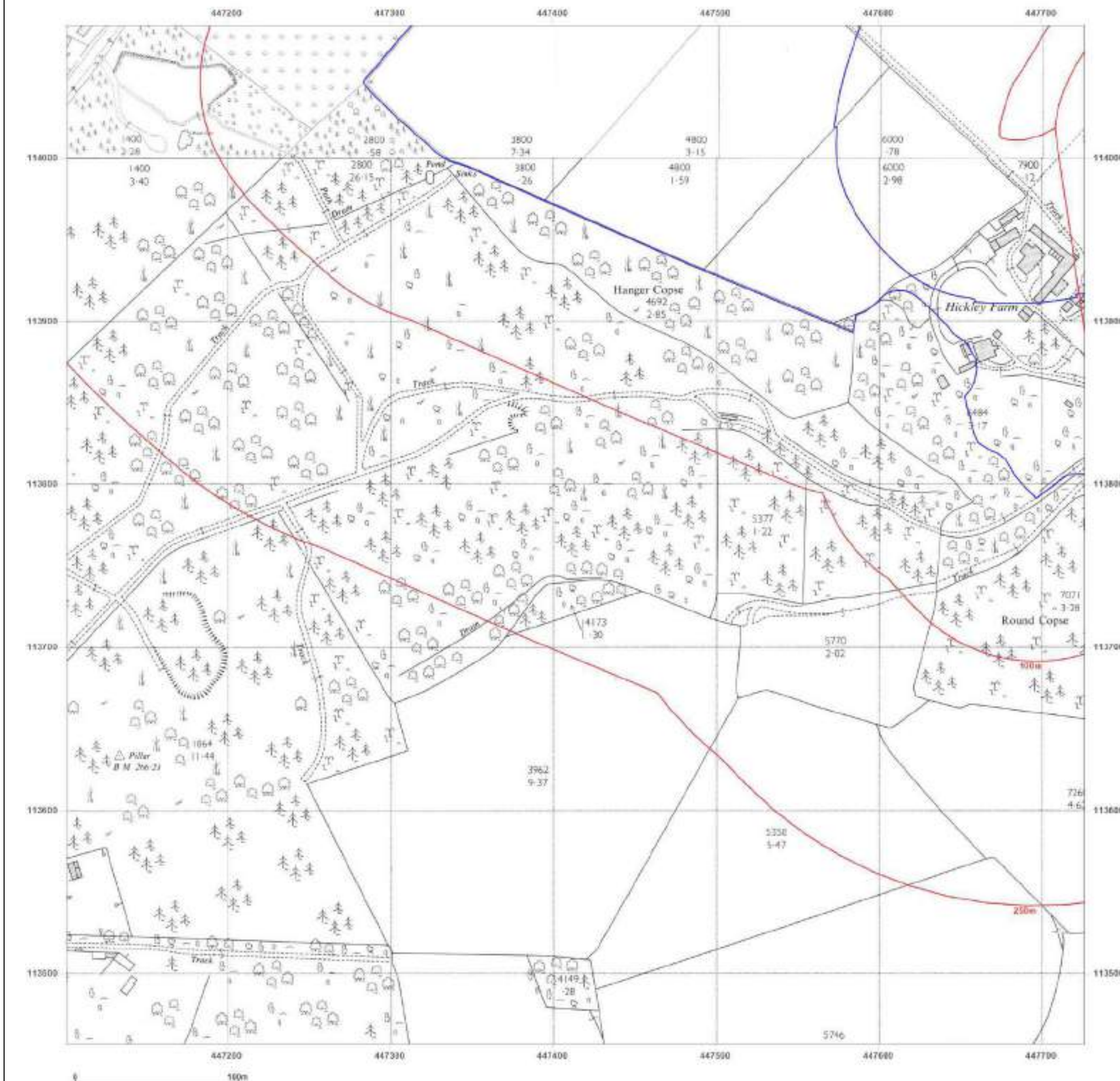


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_1
Grid Ref: 447414, 113769

Map Name: National Grid

Map date: 1965-1966

Scale: 1:2,500

Printed at: 1:2,500



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

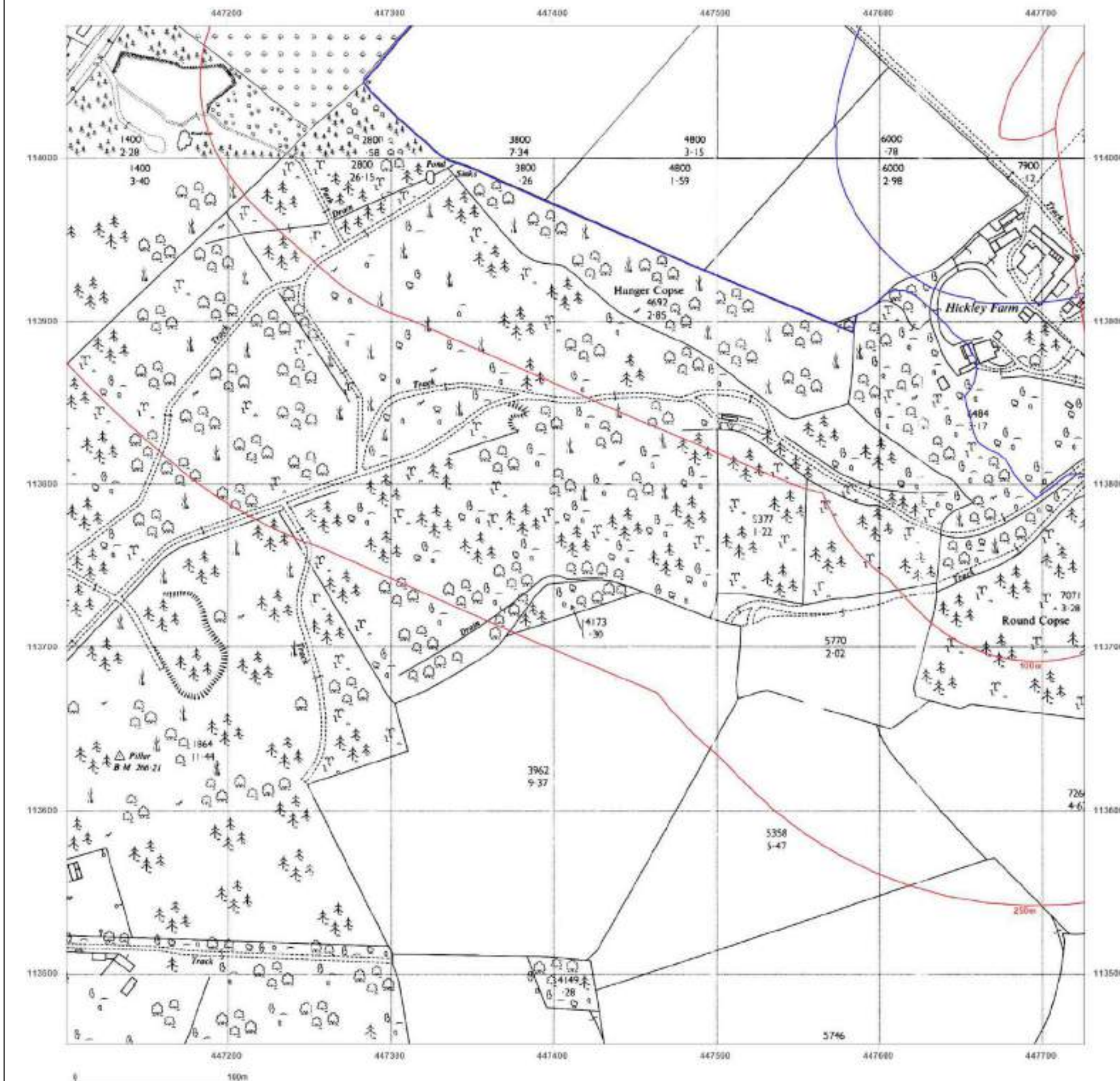


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_1
Grid Ref: 447414, 113769

Map Name: National Grid

Map date: 1978-1979

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
Levelled 1959

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

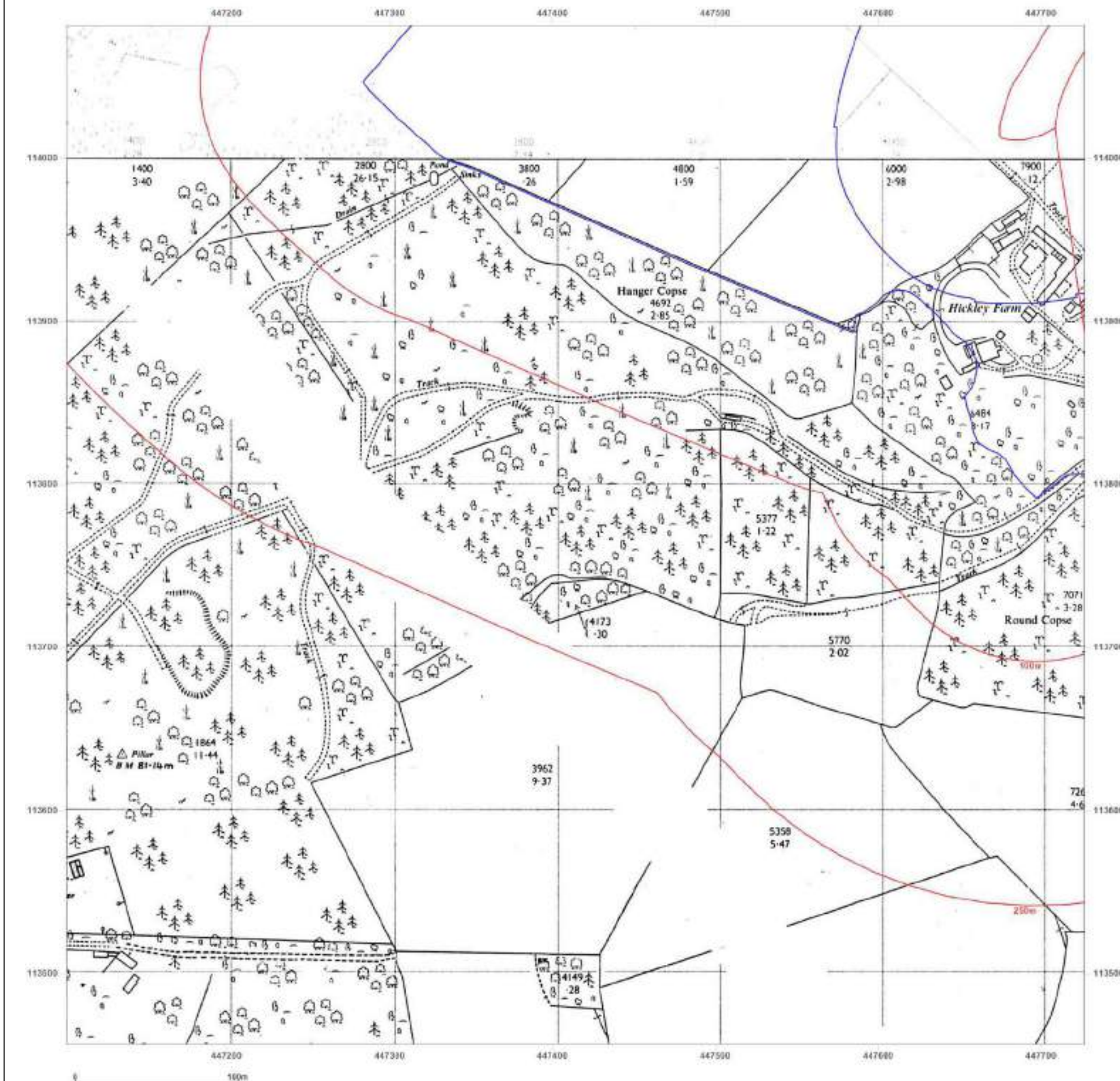


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_2
Grid Ref: 447414, 114394

Map Name: County Series

Map date: 1869

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

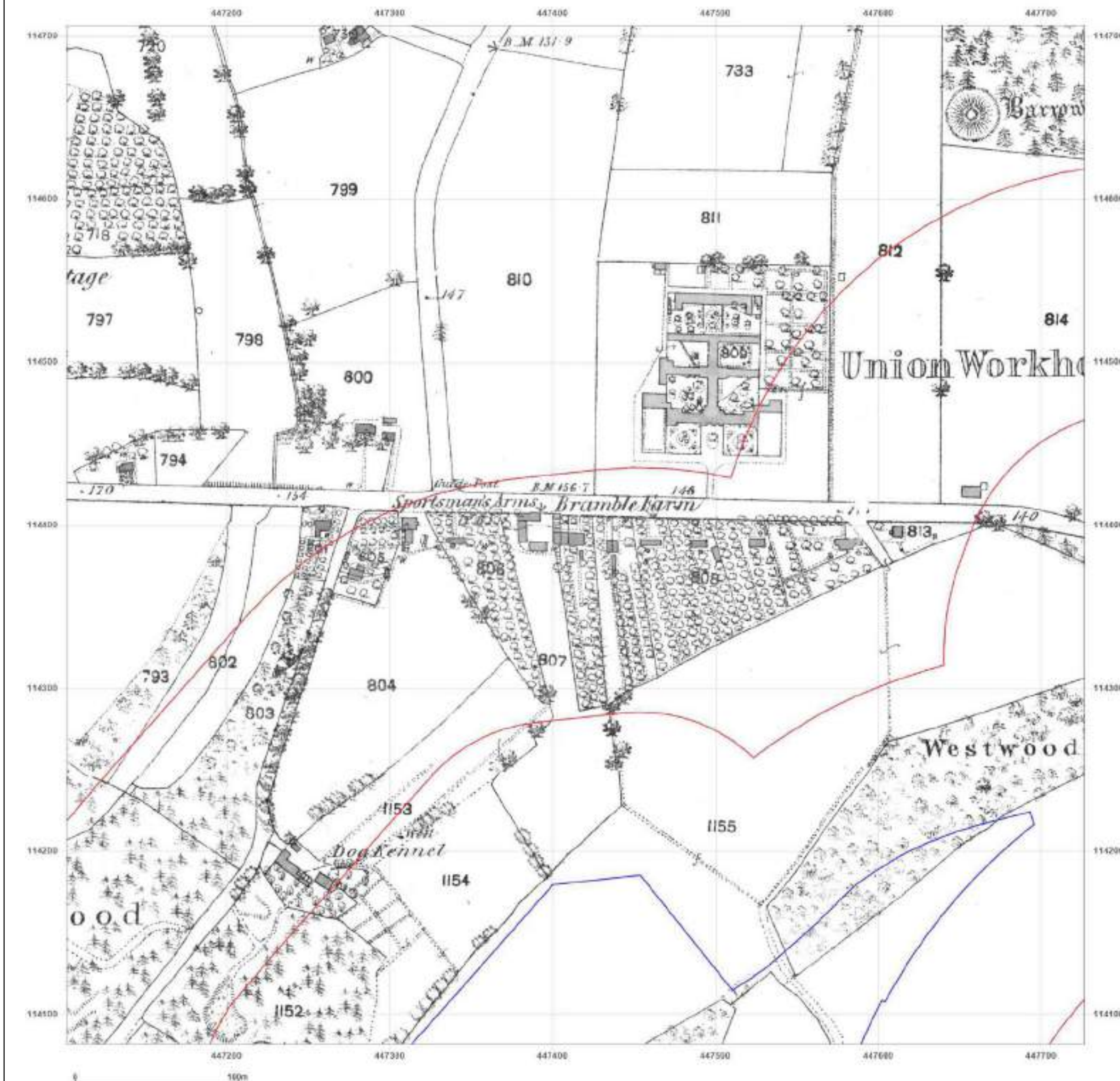


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_2
Grid Ref: 447414, 114394

Map Name: County Series

Map date: 1896-1897

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1896
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

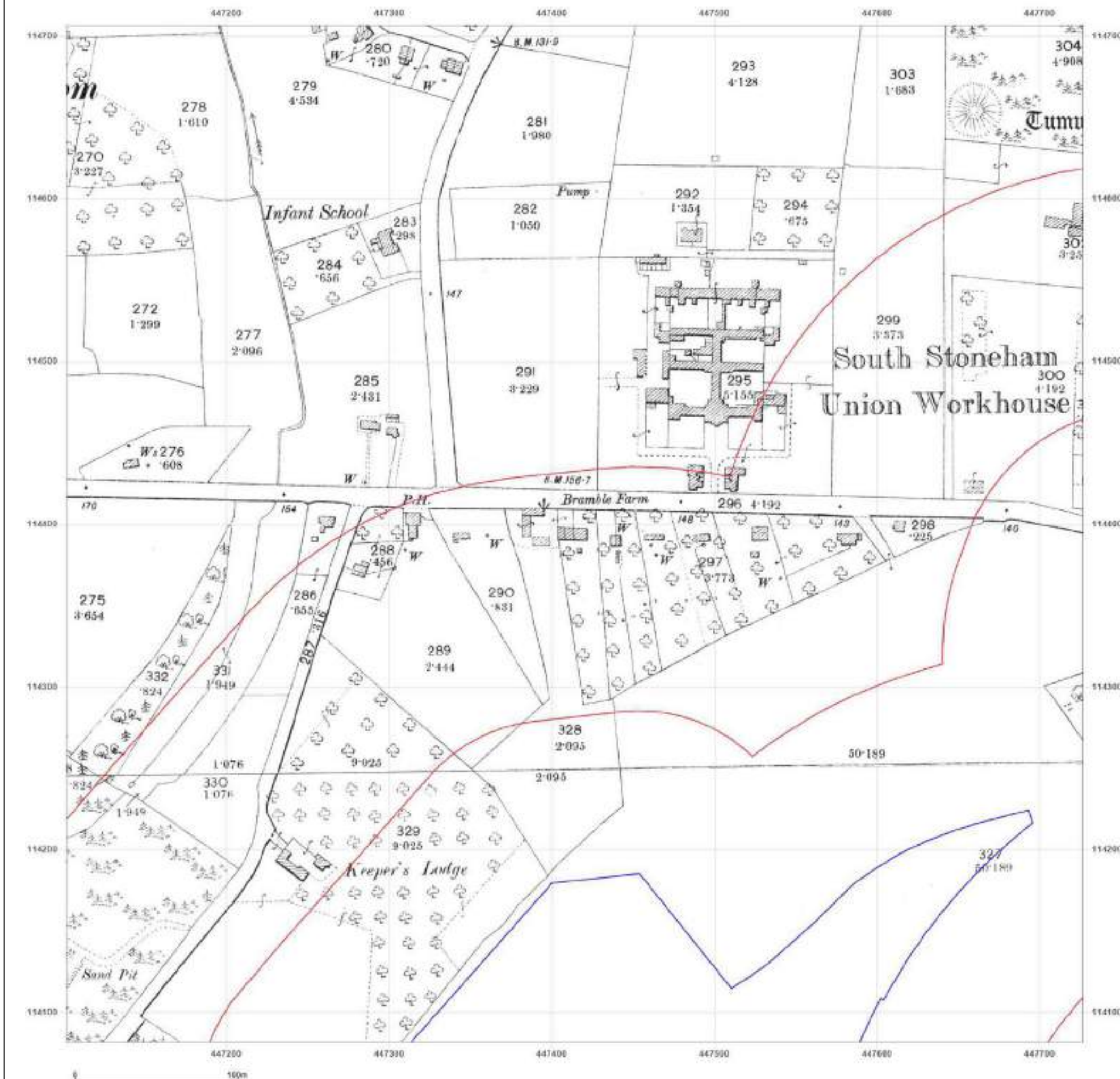


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_2
Grid Ref: 447414, 114394

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

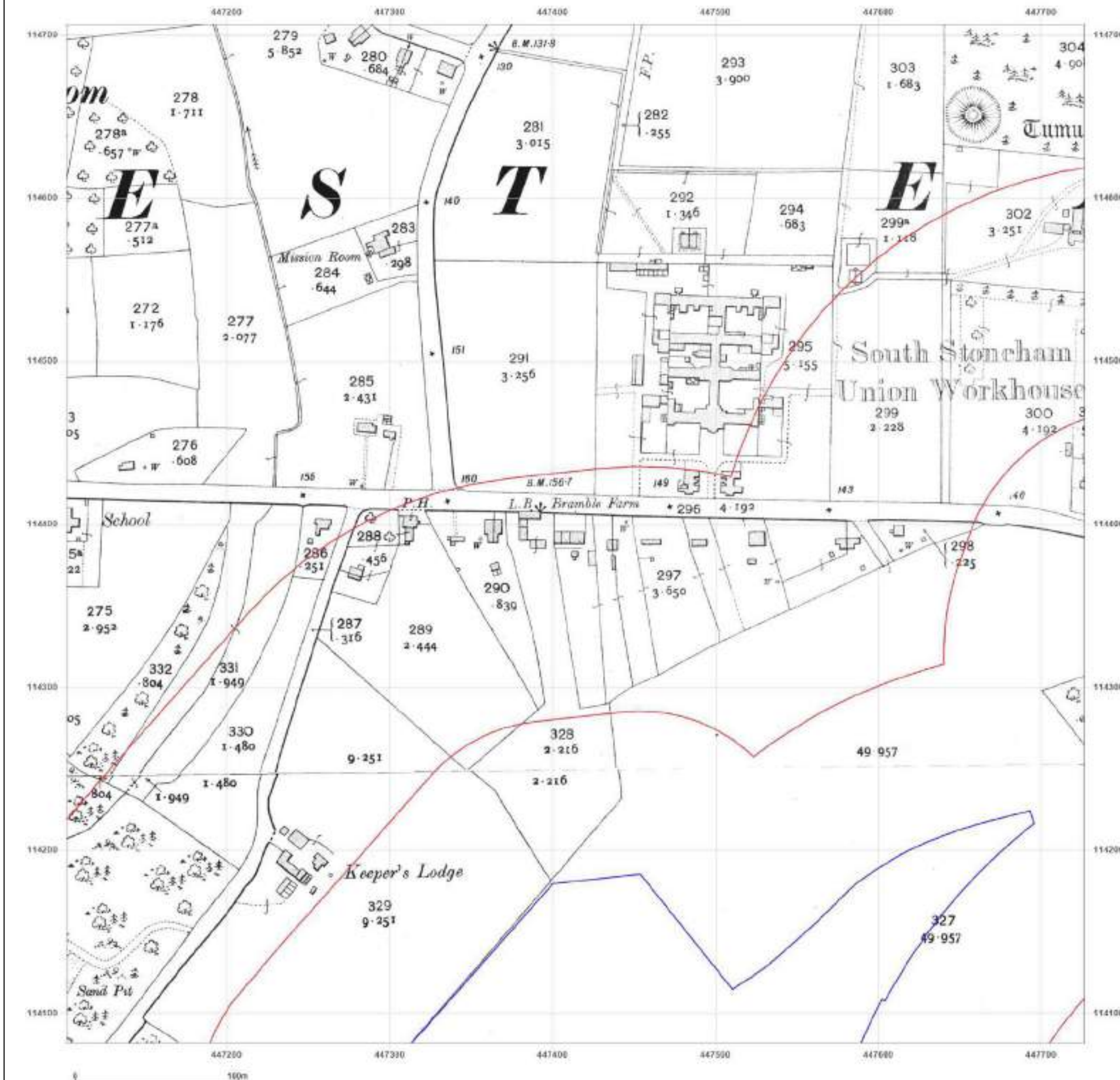


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_2
Grid Ref: 447414, 114394

Map Name: County Series

Map date: 1940

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1940
Revised 1940
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1940
Revised 1940
Edition N/A
Copyright N/A
Levelled N/A

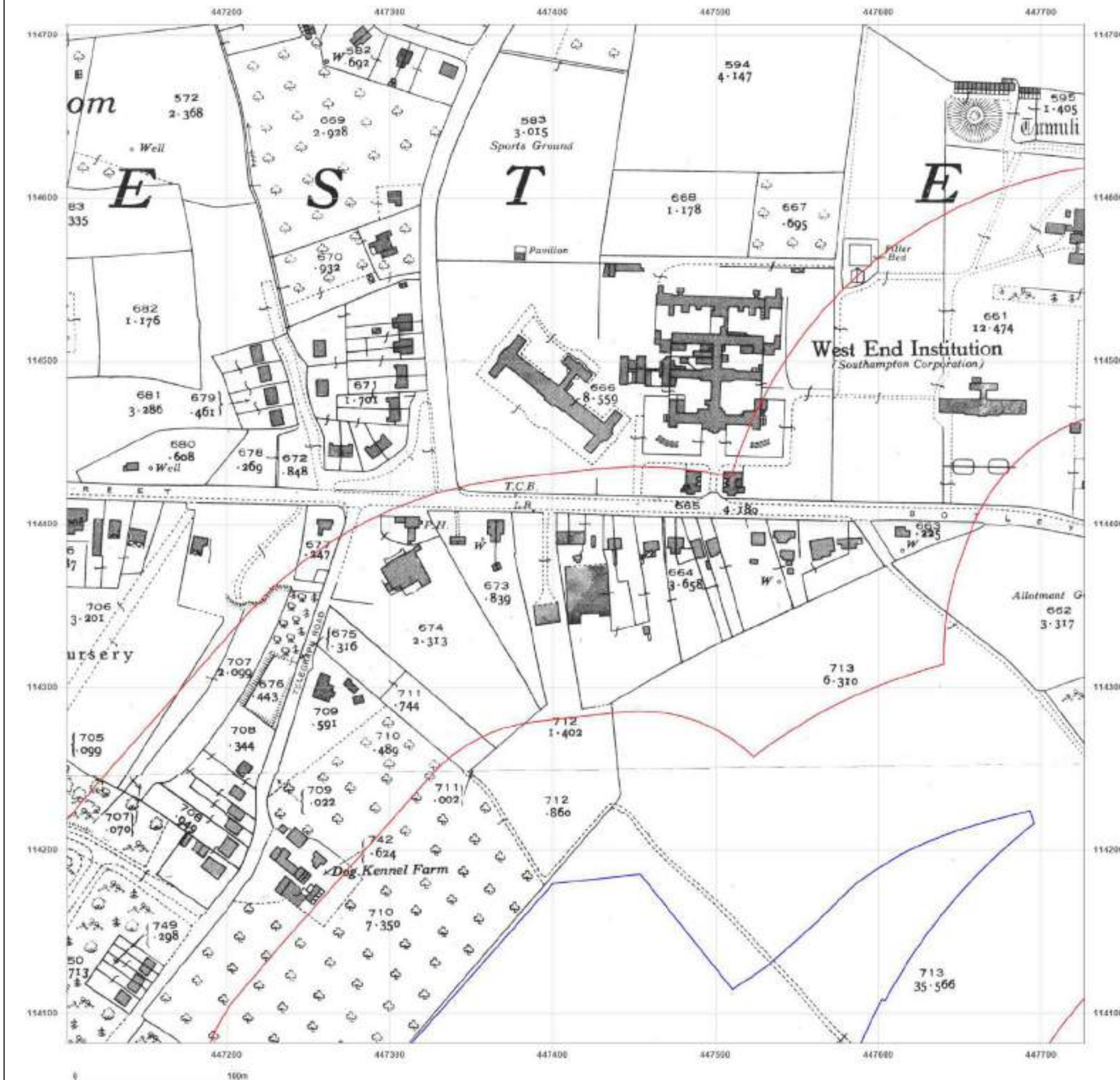


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_2
Grid Ref: 447414, 114394

Map Name: National Grid

Map date: 1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1965
 Revised 1965
 Edition 1968
 Copyright 1968
 Levelled 1959

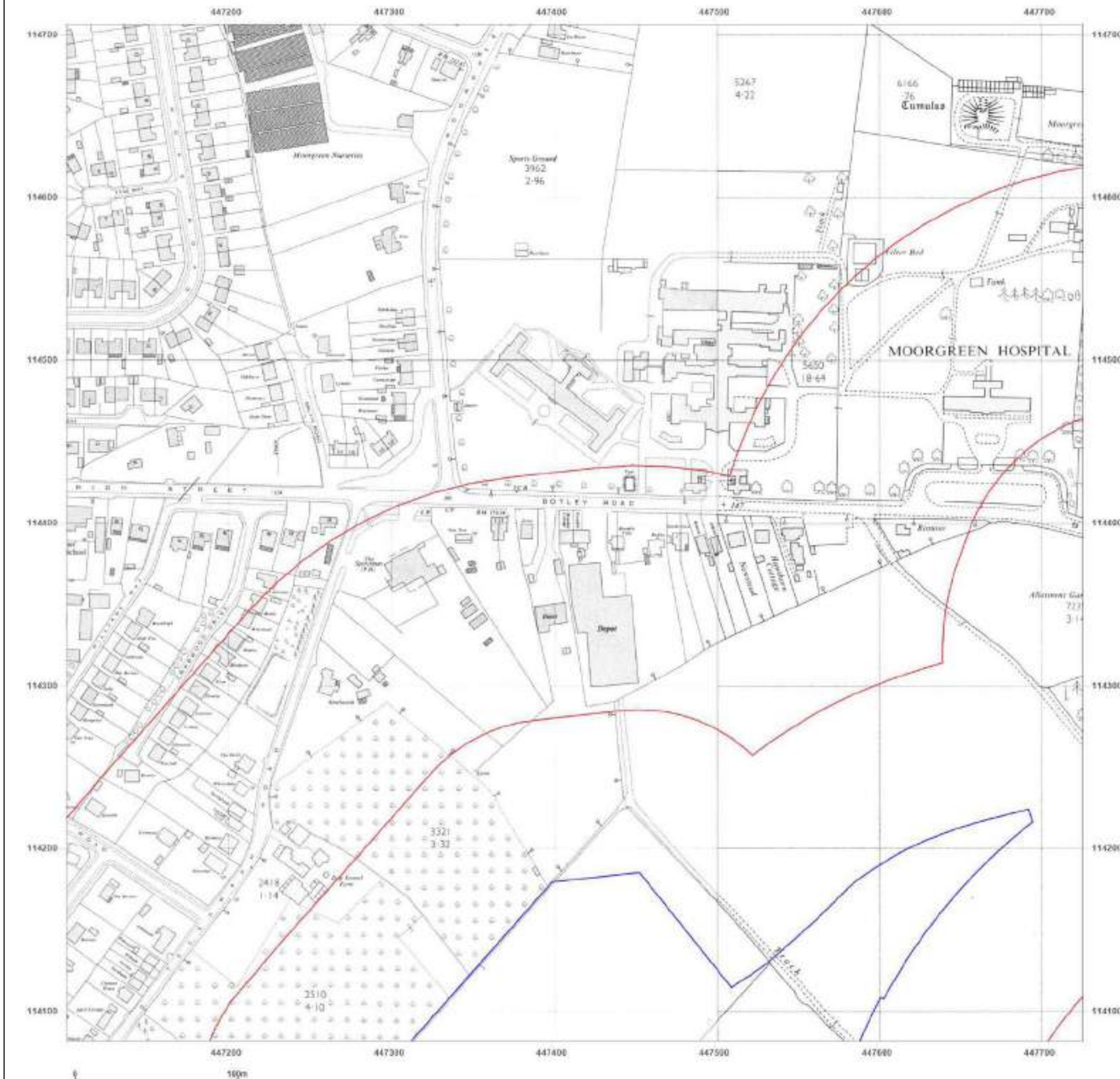


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_1_2
Grid Ref: 447414, 114394

Map Name: National Grid

Map date: 1966

Scale: 1:2,500

Printed at: 1:2,500



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

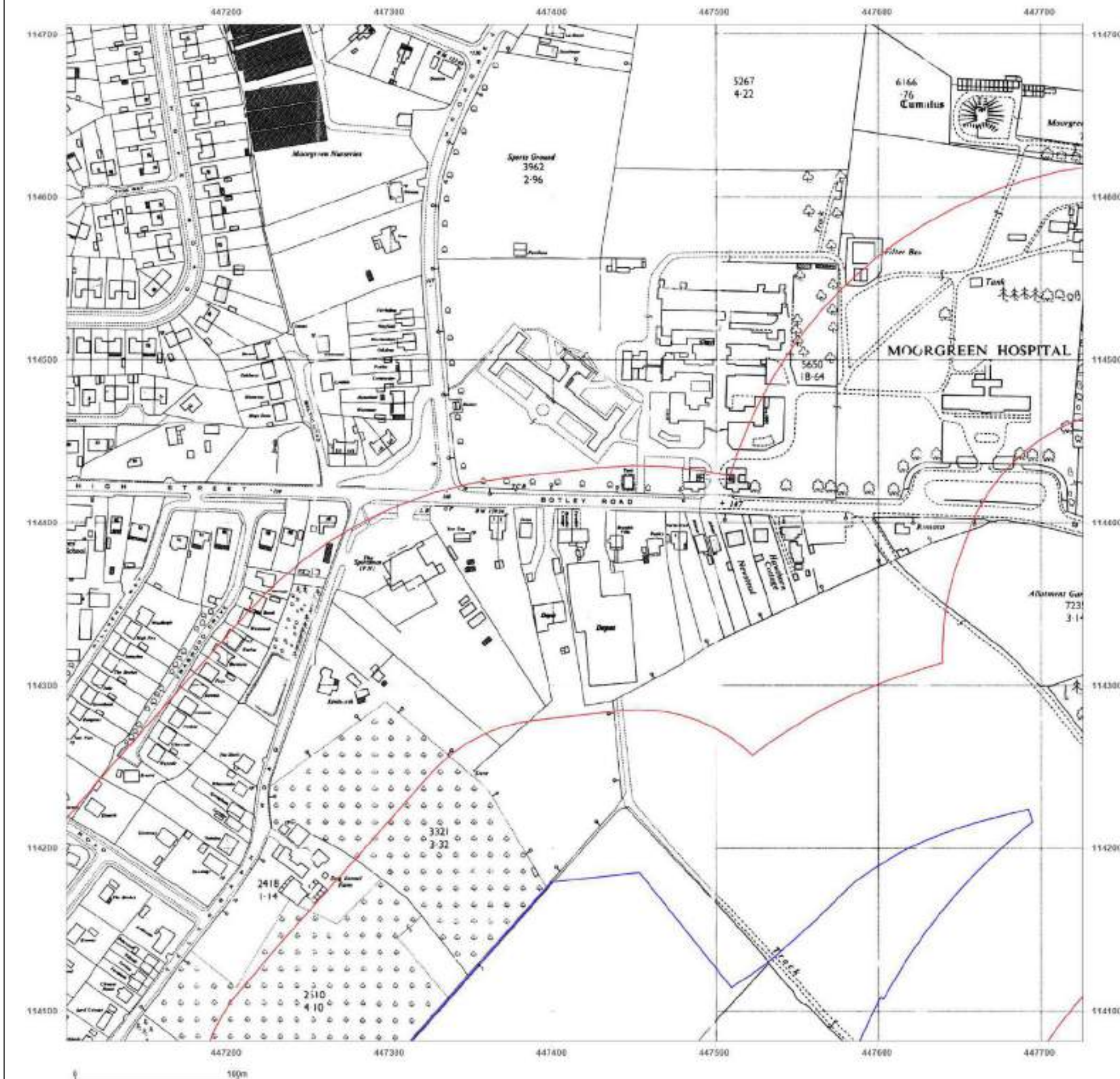


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Site Details:

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Client Ref: 20136787
Report Ref: GS-8355426_LS_1_2
Grid Ref: 447414, 114394

Map Name: National Grid

Map date: 1966

Scale: 1:2,500

Printed at: 1:2,500



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

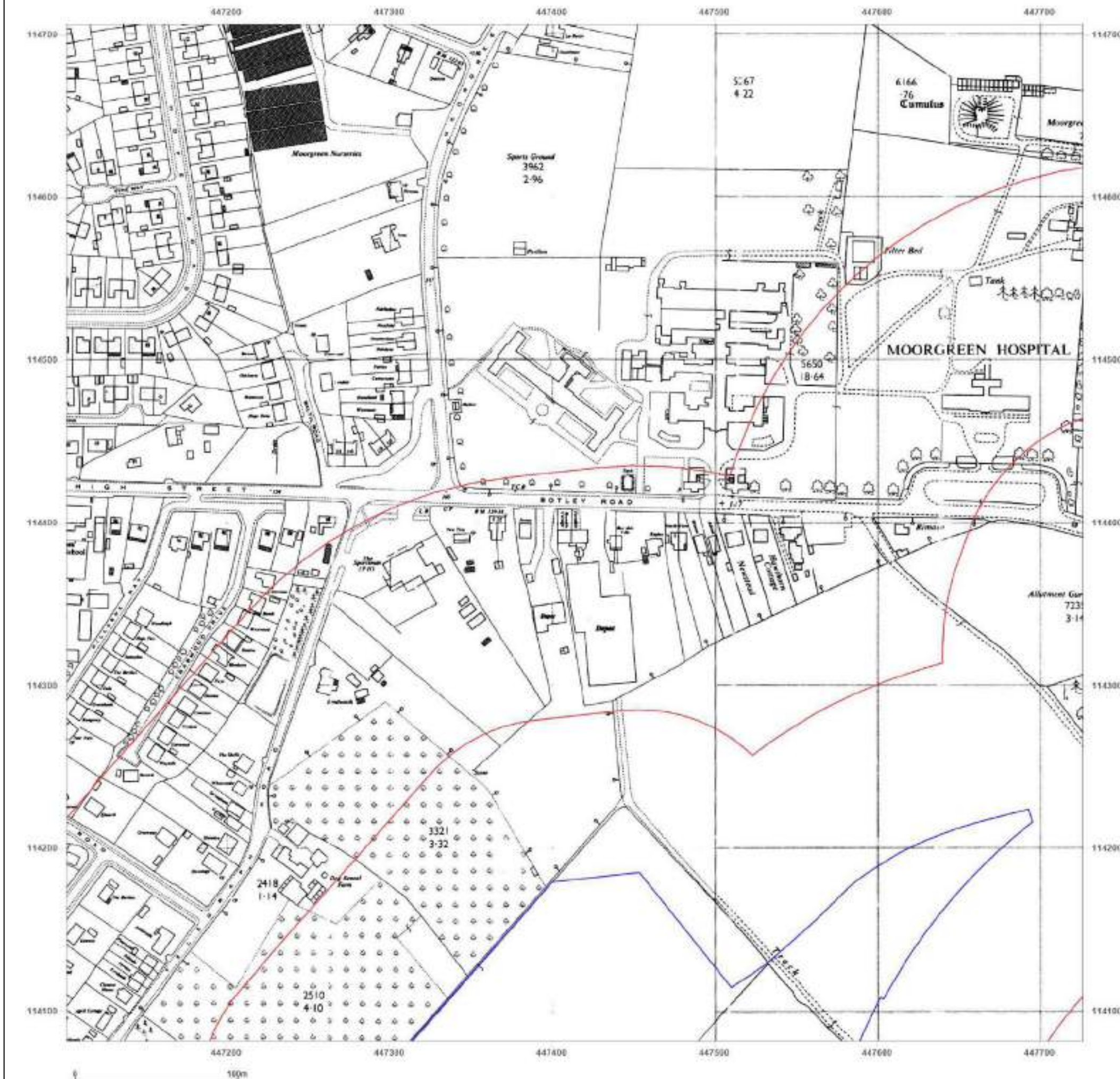


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Site Details:

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Client Ref: 20136787
Report Ref: GS-8355426_LS_1_2
Grid Ref: 447414, 114394

Map Name: National Grid

Map date: 1979

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1979
 Levelled 1959

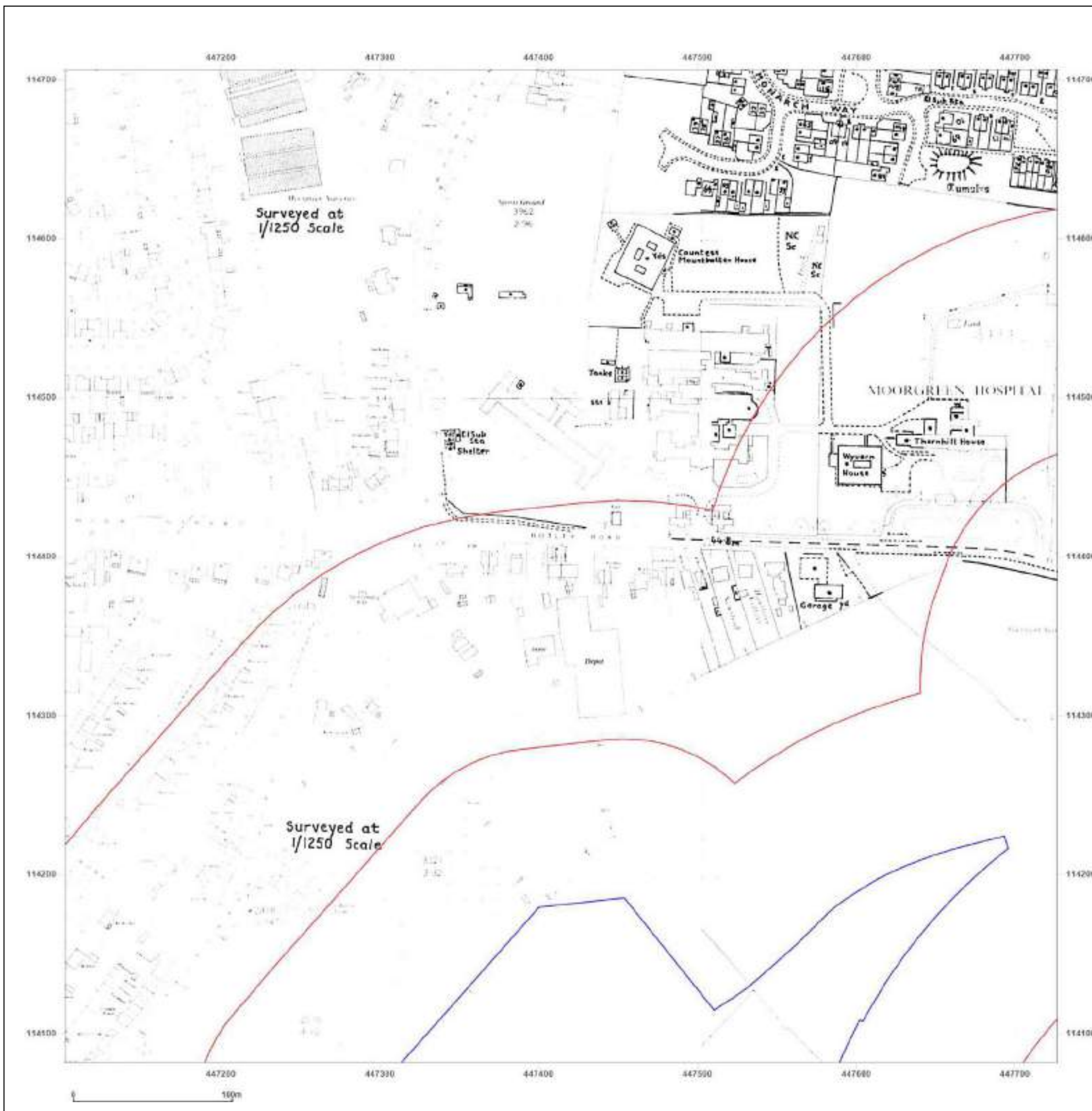


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_1
Grid Ref: 448039, 113769

Map Name: County Series

Map date: 1869

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Leveled N/A

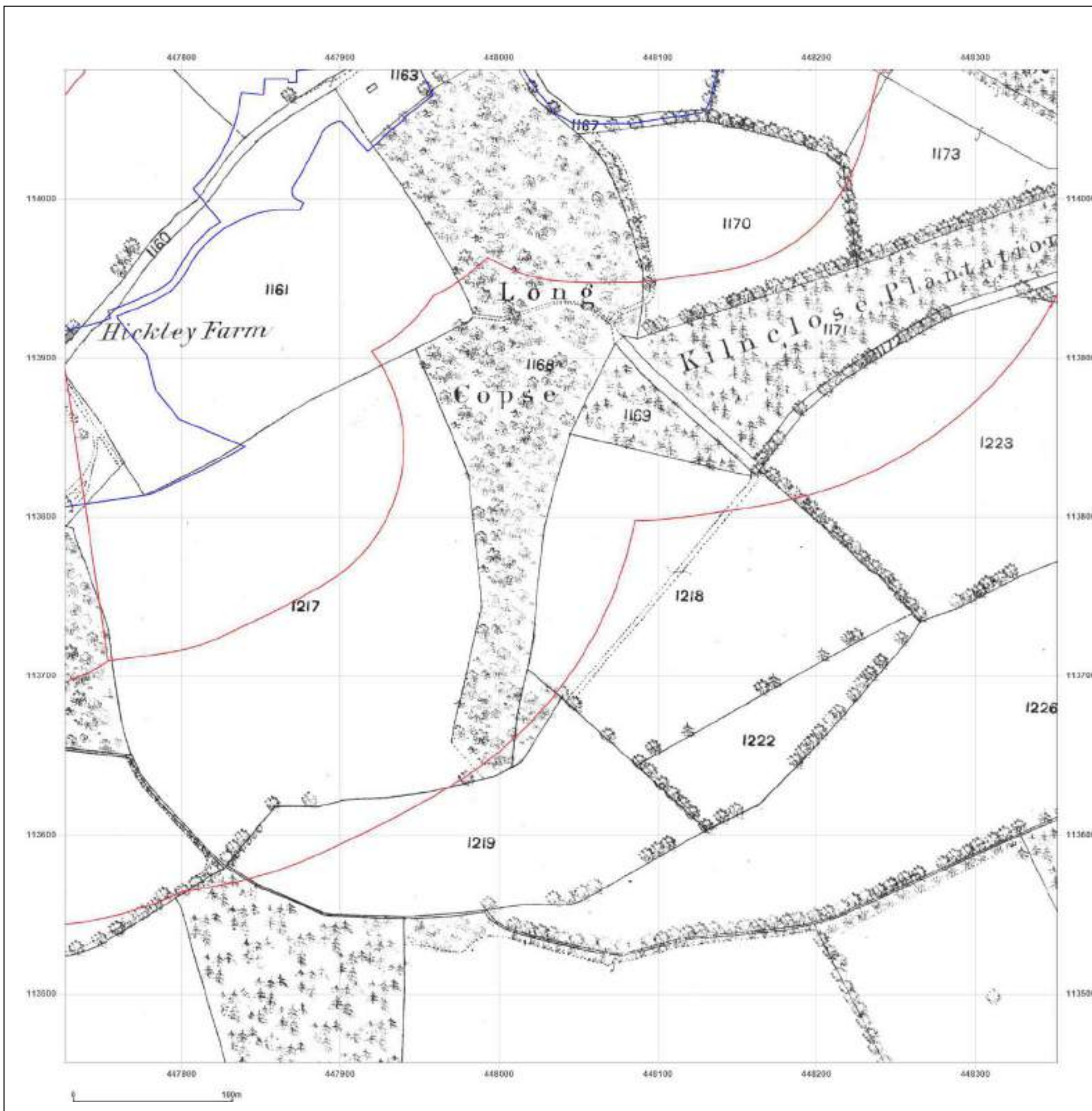


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_1
Grid Ref: 448039, 113769

Map Name: County Series

Map date: 1896

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1896
 Revised 1896
 Edition N/A
 Copyright N/A
 Leveled N/A

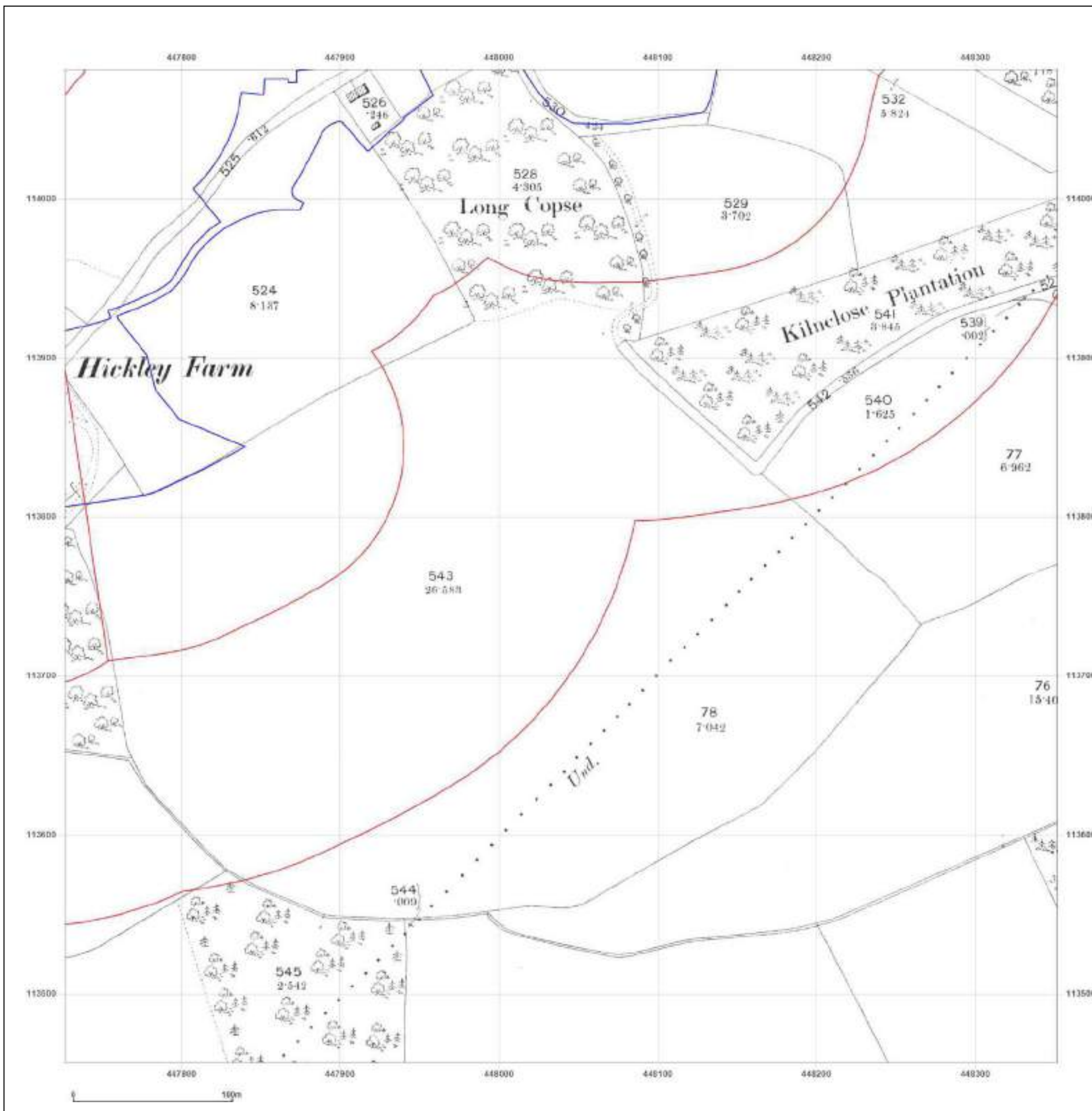


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_1
Grid Ref: 448039, 113769

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Leveled N/A

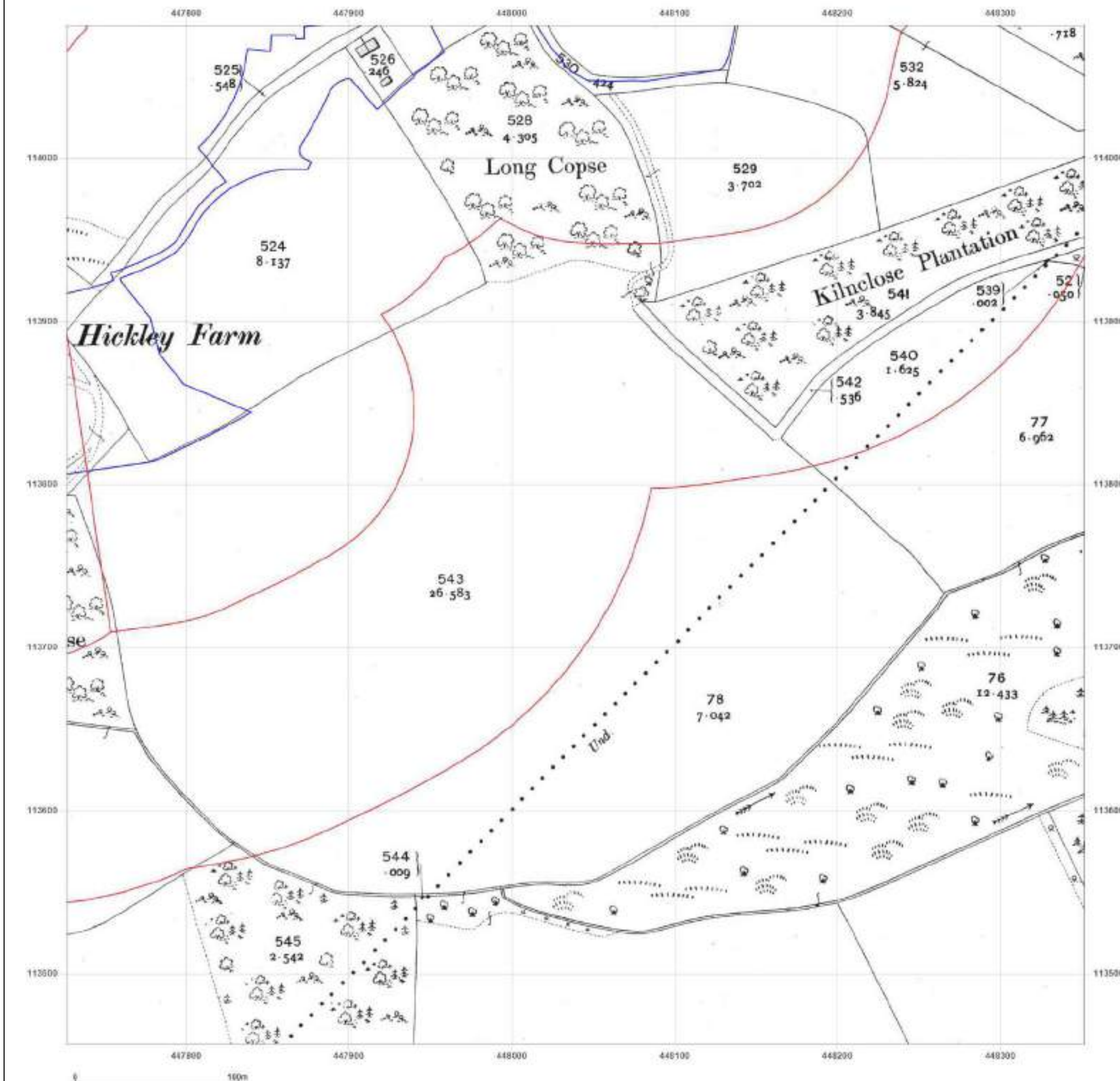


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_1
Grid Ref: 448039, 113769

Map Name: County Series

Map date: 1940

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1940
Revised 1940
Edition N/A
Copyright N/A
Leveled N/A

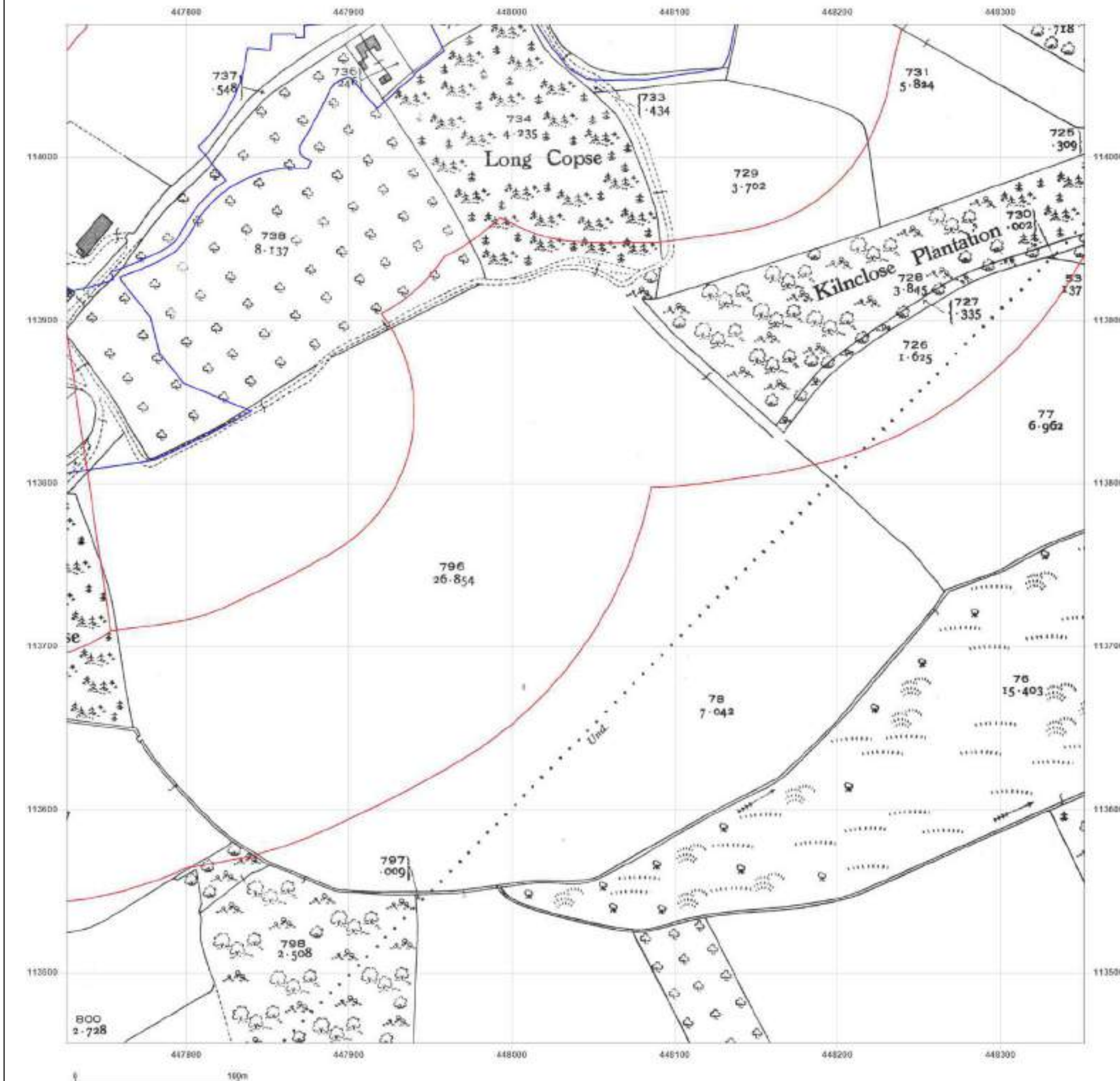


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_1
Grid Ref: 448039, 113769

Map Name: National Grid

Map date: 1959

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled 1959

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled 1959

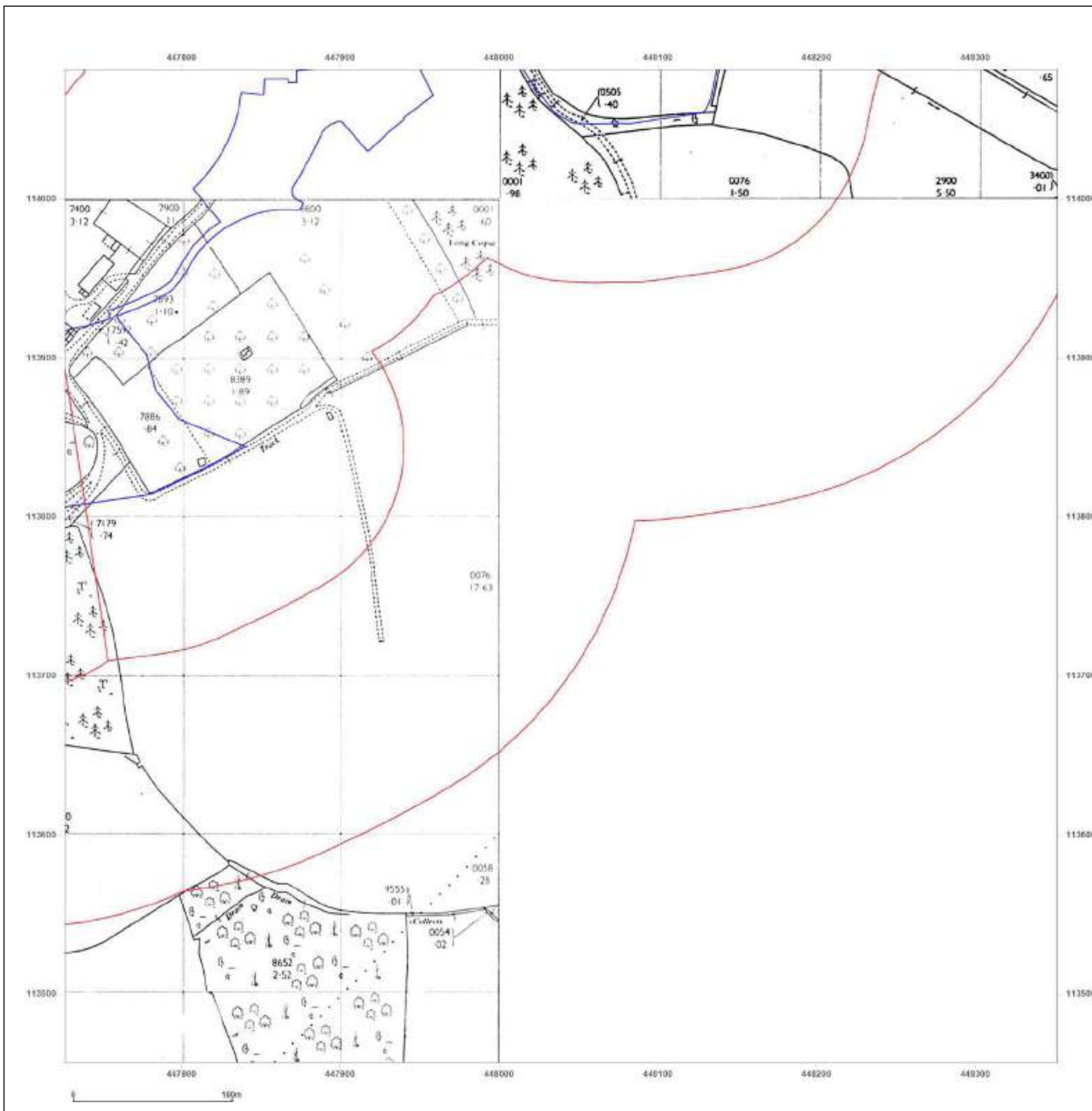


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_1
Grid Ref: 448039, 113769

Map Name: National Grid

Map date: 1965-1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1965
 Revised 1965
 Edition 1965
 Copyright 1965
 Levelled 1959

Surveyed 1965
 Revised 1965
 Edition N/A
 Copyright 1965
 Levelled 1959

Surveyed 1965
 Revised 1965
 Edition 1965
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Surveyed 1965
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 Edition N/A
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 Levelled 1959

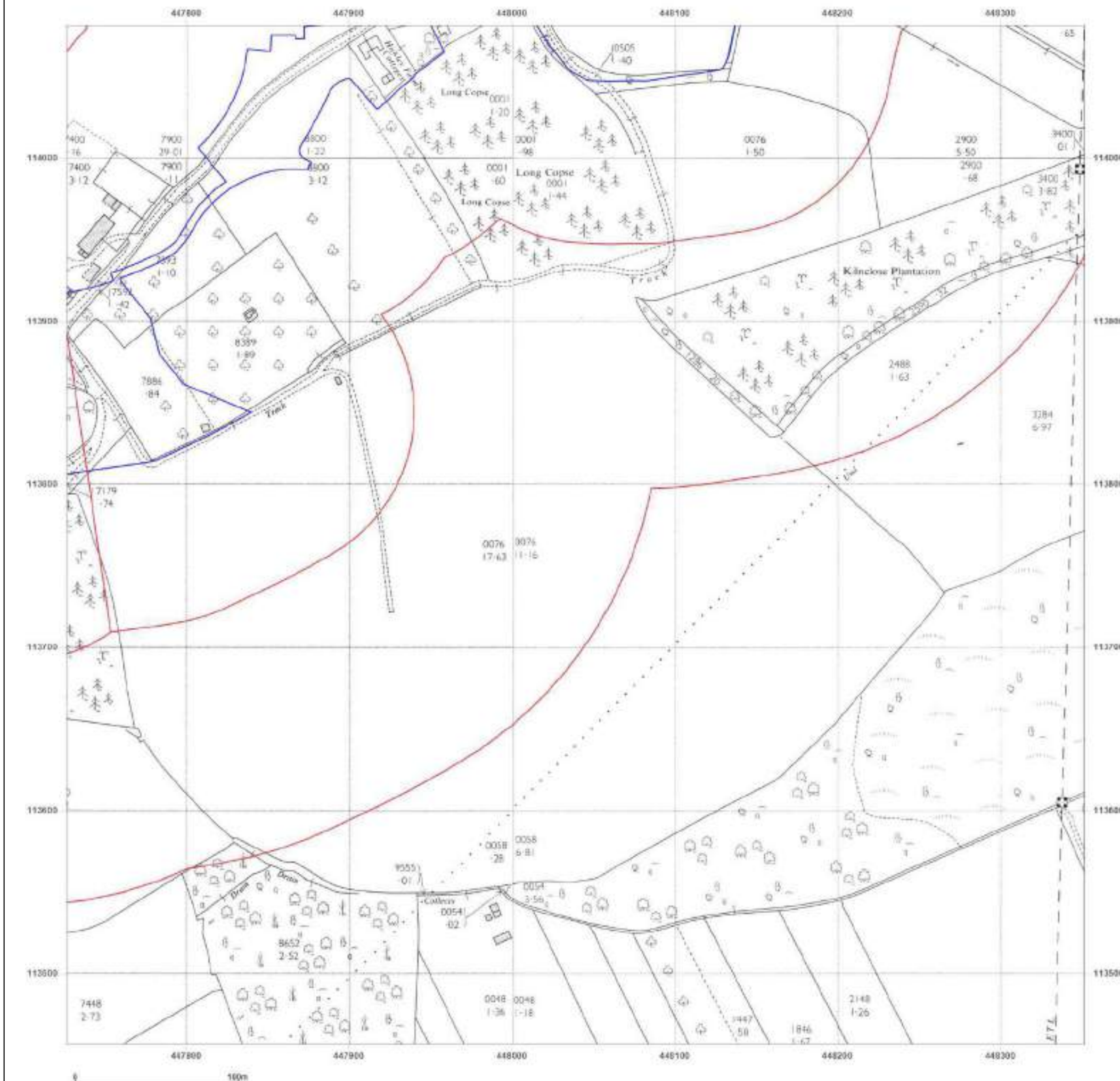


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_1
Grid Ref: 448039, 113769

Map Name: National Grid

Map date: 1965-1966

Scale: 1:2,500

Printed at: 1:2,500



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
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 Levelled N/A

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

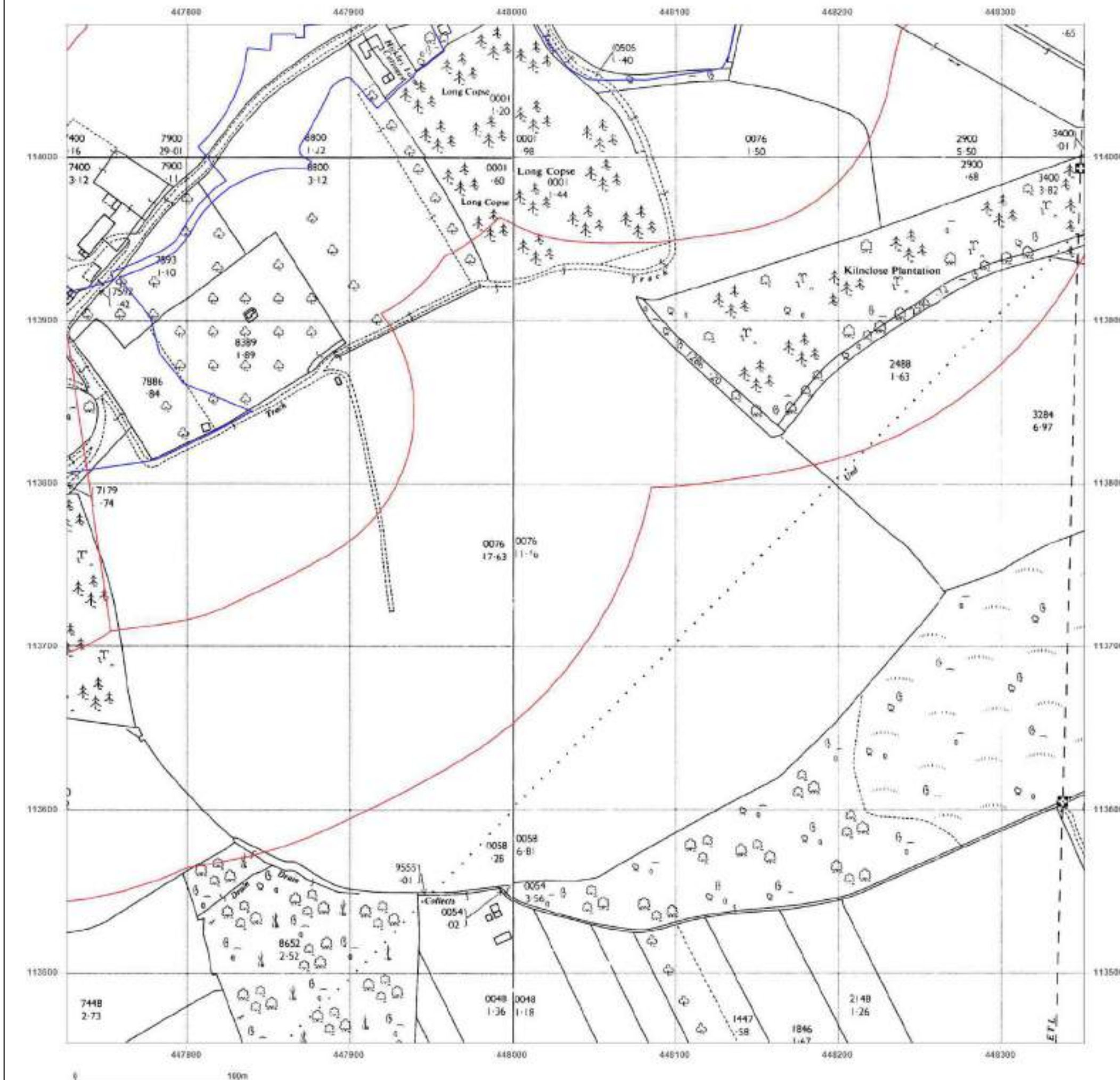


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_1
Grid Ref: 448039, 113769

Map Name: National Grid

Map date: 1978-1979

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1979
 Levelled 1959

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

Surveyed 1978
 Revised 1979
 Edition N/A
 Copyright 1978
 Levelled N/A

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

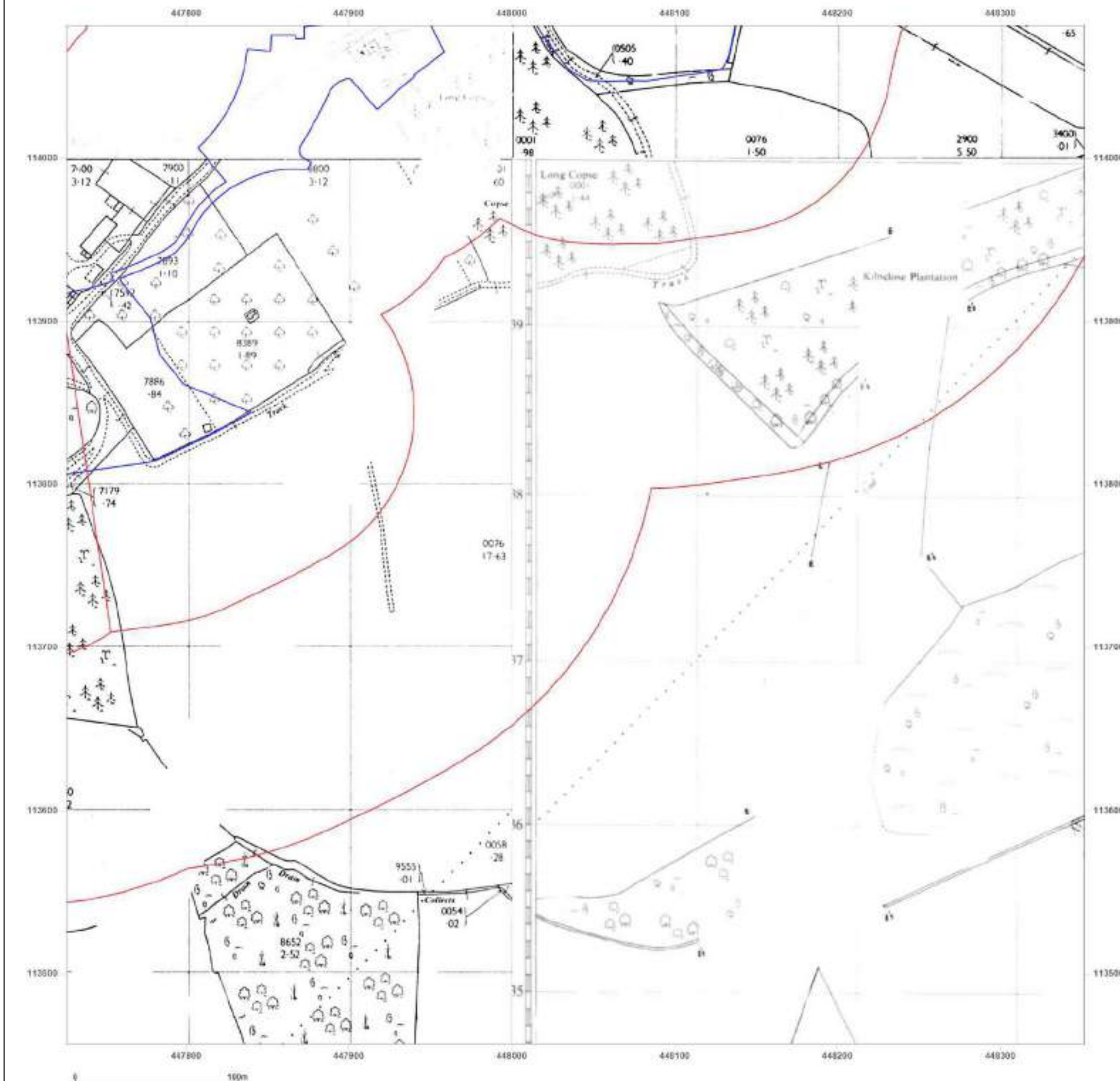


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Production date: 23 November 2021

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Site Details:

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Client Ref: 20136787
Report Ref: GS-8355426_LS_2_1
Grid Ref: 448039, 113769

Map Name: National Grid

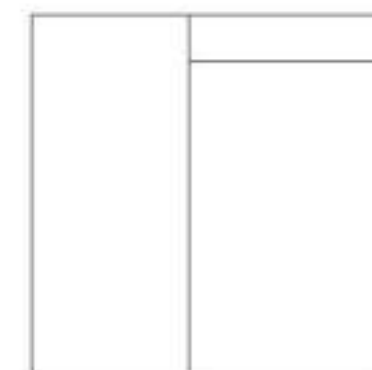
Map date: 1984-1986

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1956
 Revised 1986
 Edition N/A
 Copyright 1986
 Levelling 1956



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1984
 Levelling 1959

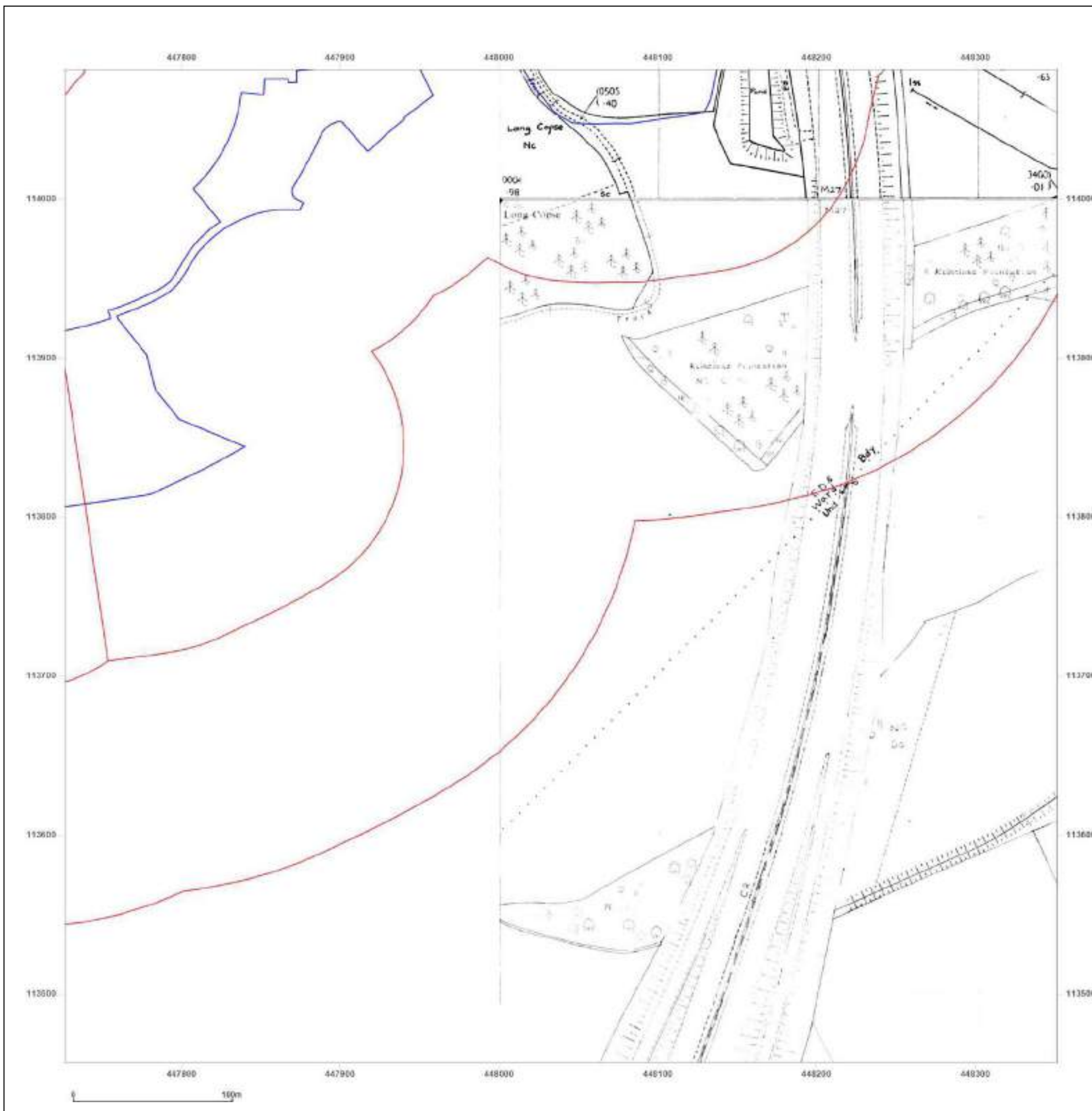


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Production date: 23 November 2021

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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_2
Grid Ref: 448039, 114394

Map Name: County Series

Map date: 1869

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

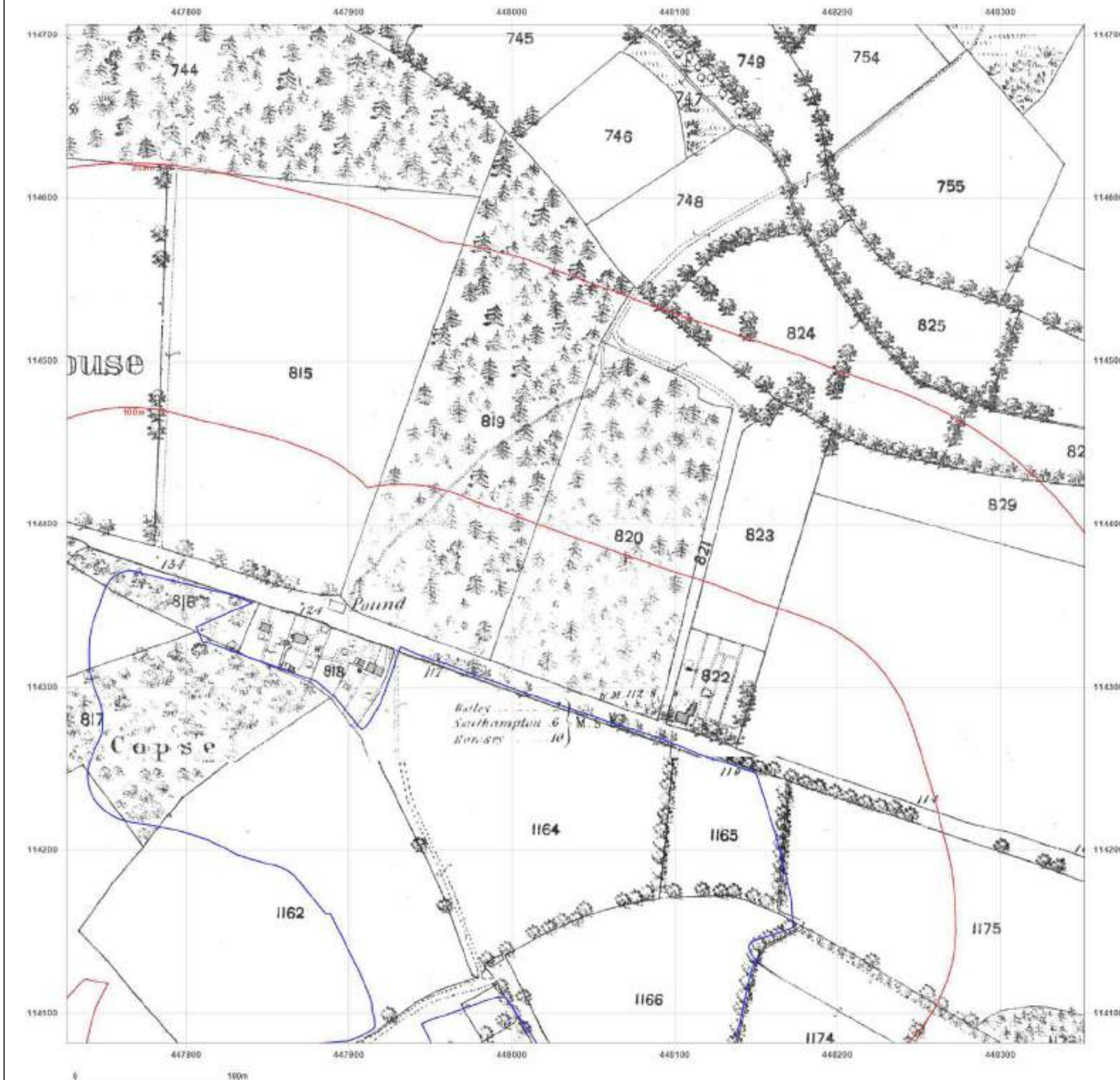


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Production date: 23 November 2021

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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_2
Grid Ref: 448039, 114394

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

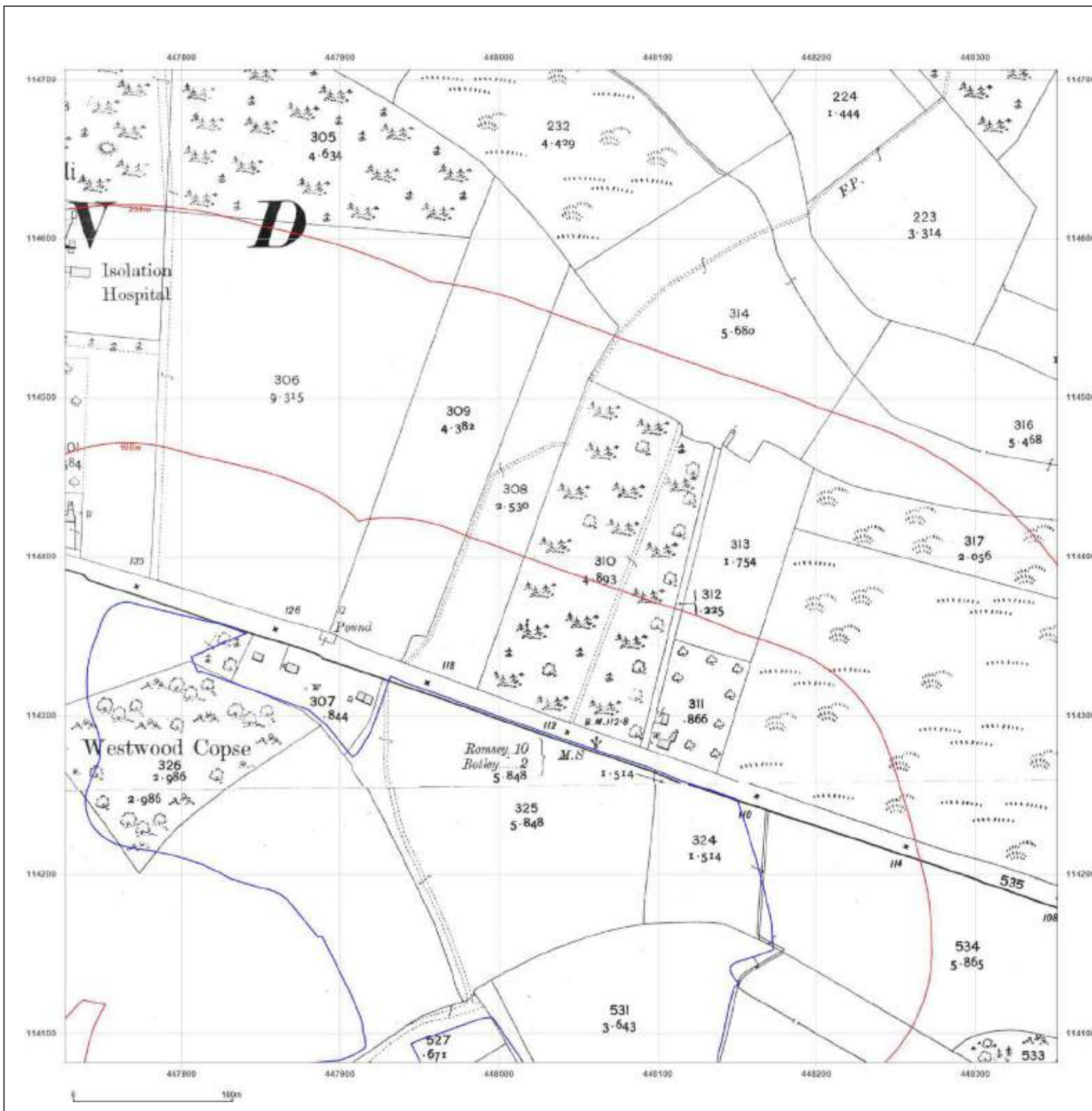


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Production date: 23 November 2021

Map legend available at:
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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_2
Grid Ref: 448039, 114394

Map Name: County Series

Map date: 1940

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1940
Revised 1940
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1940
Revised 1940
Edition N/A
Copyright N/A
Levelled N/A

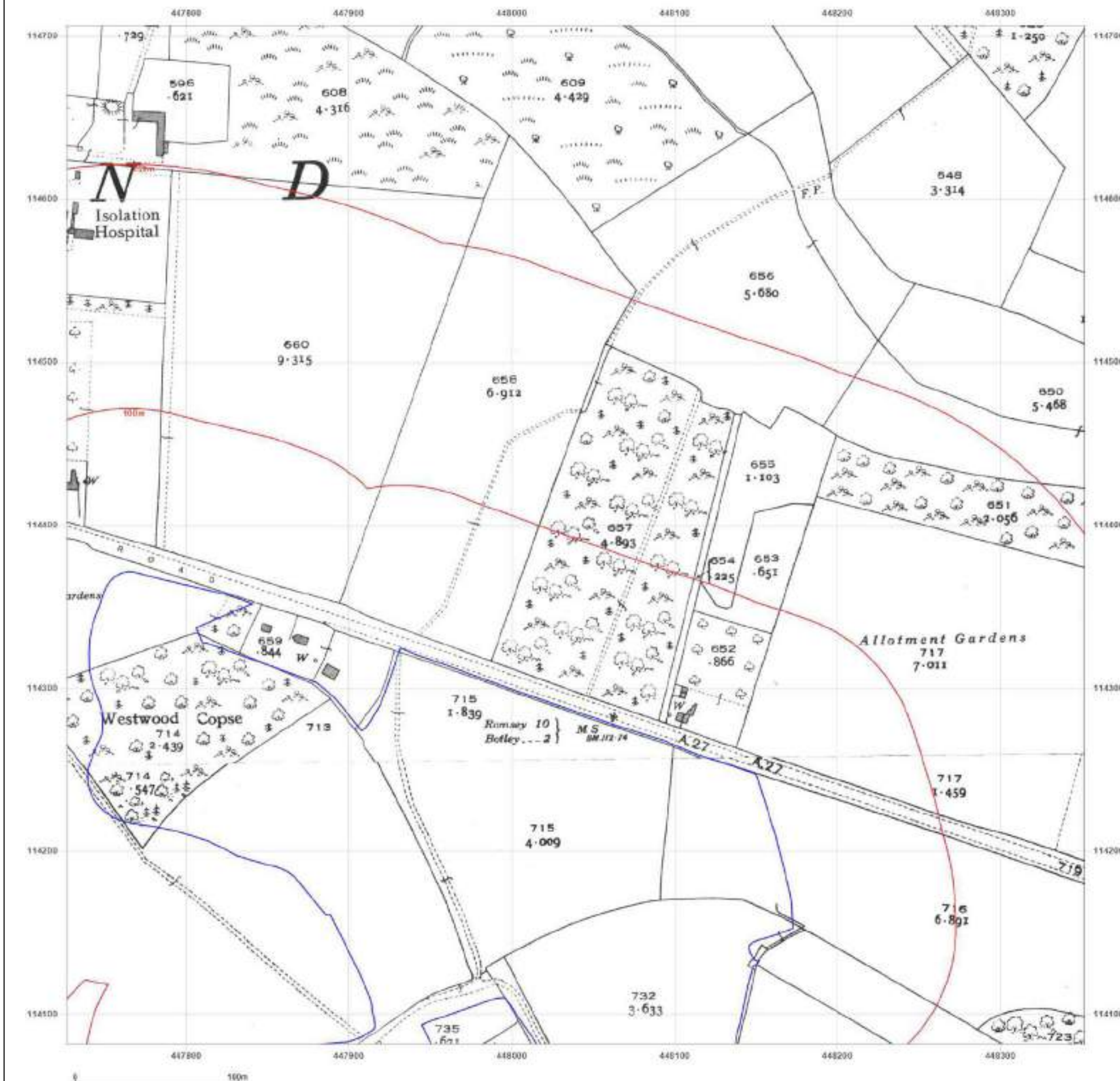


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Site Details:

447749 114067

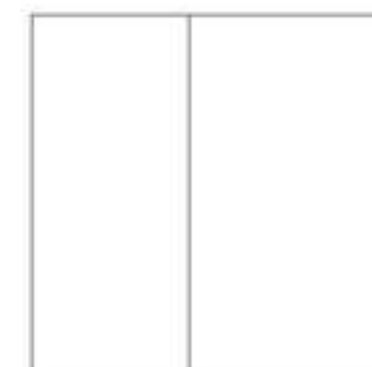
Client Ref: 20136787
Report Ref: GS-8355426_LS_2_2
Grid Ref: 448039, 114394

Map Name: National Grid

Map date: 1959

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled 1959

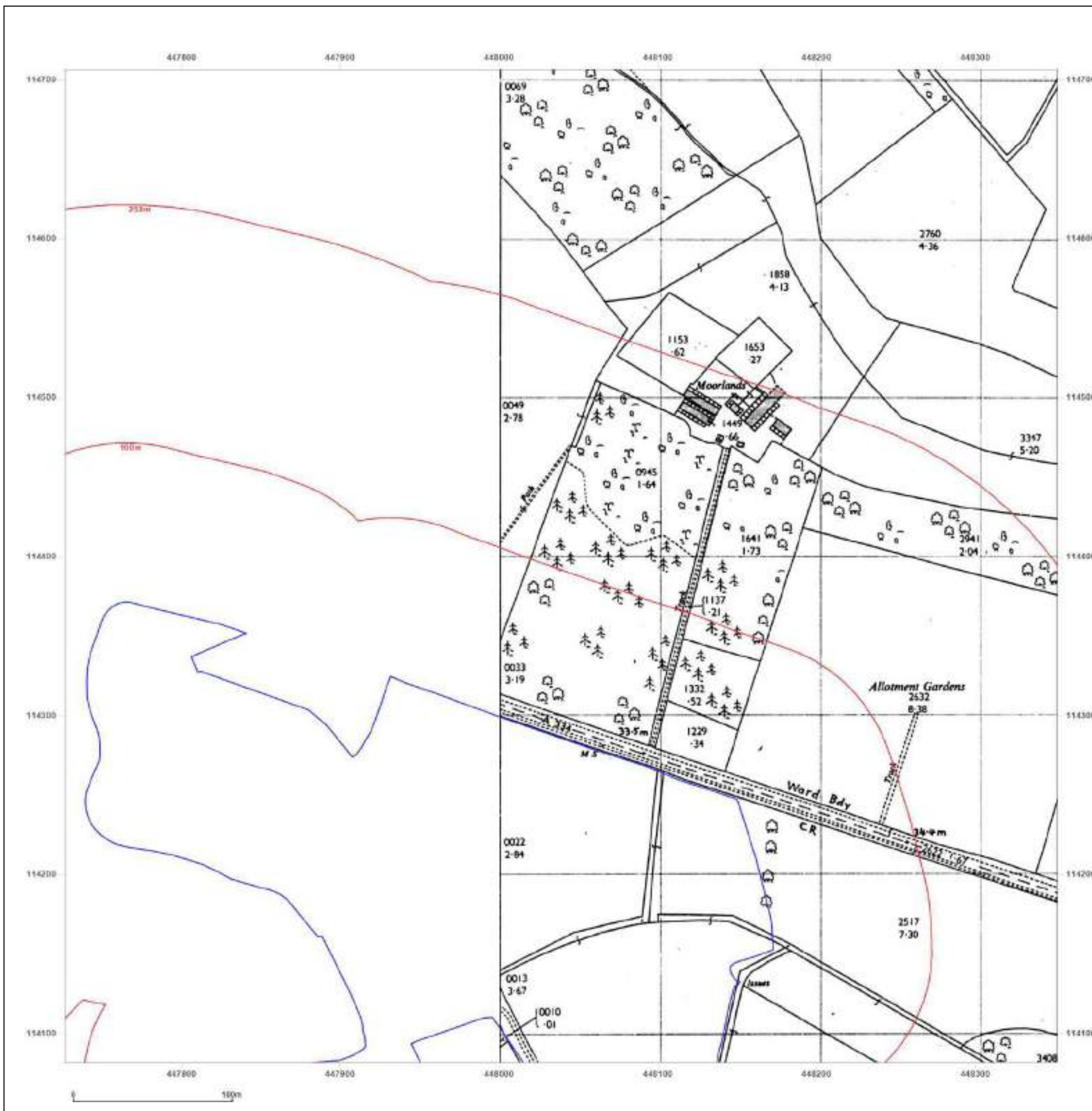


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Map legend available at:
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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_2
Grid Ref: 448039, 114394

Map Name: National Grid

Map date: 1965-1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1965
 Revised 1965
 Edition 1965
 Copyright 1965
 Levelled 1959

Surveyed 1965
 Revised 1965
 Edition N/A
 Copyright 1965
 Levelled 1959

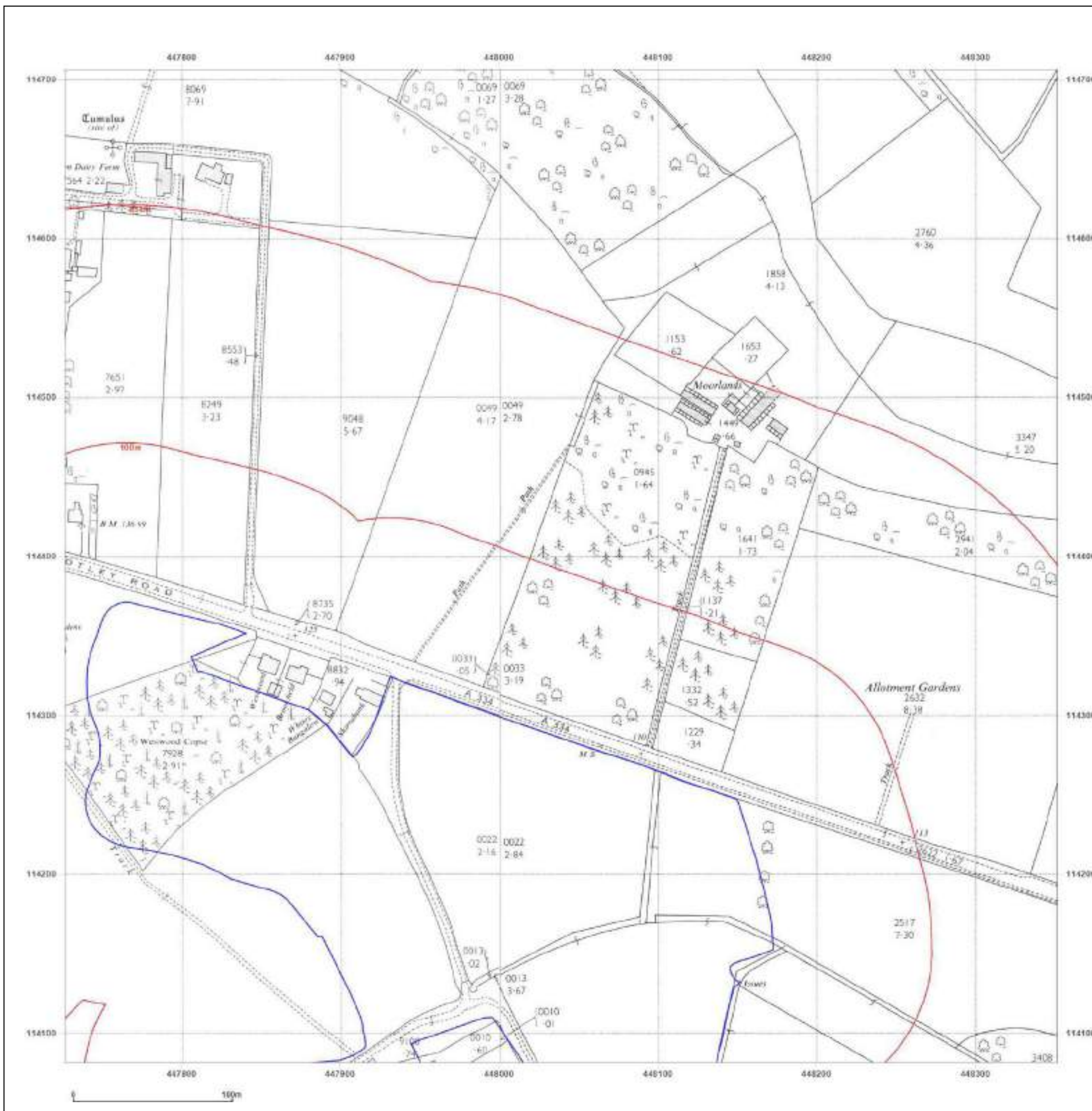


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Production date: 23 November 2021

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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_2
Grid Ref: 448039, 114394

Map Name: National Grid

Map date: 1966

Scale: 1:2,500

Printed at: 1:2,500



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

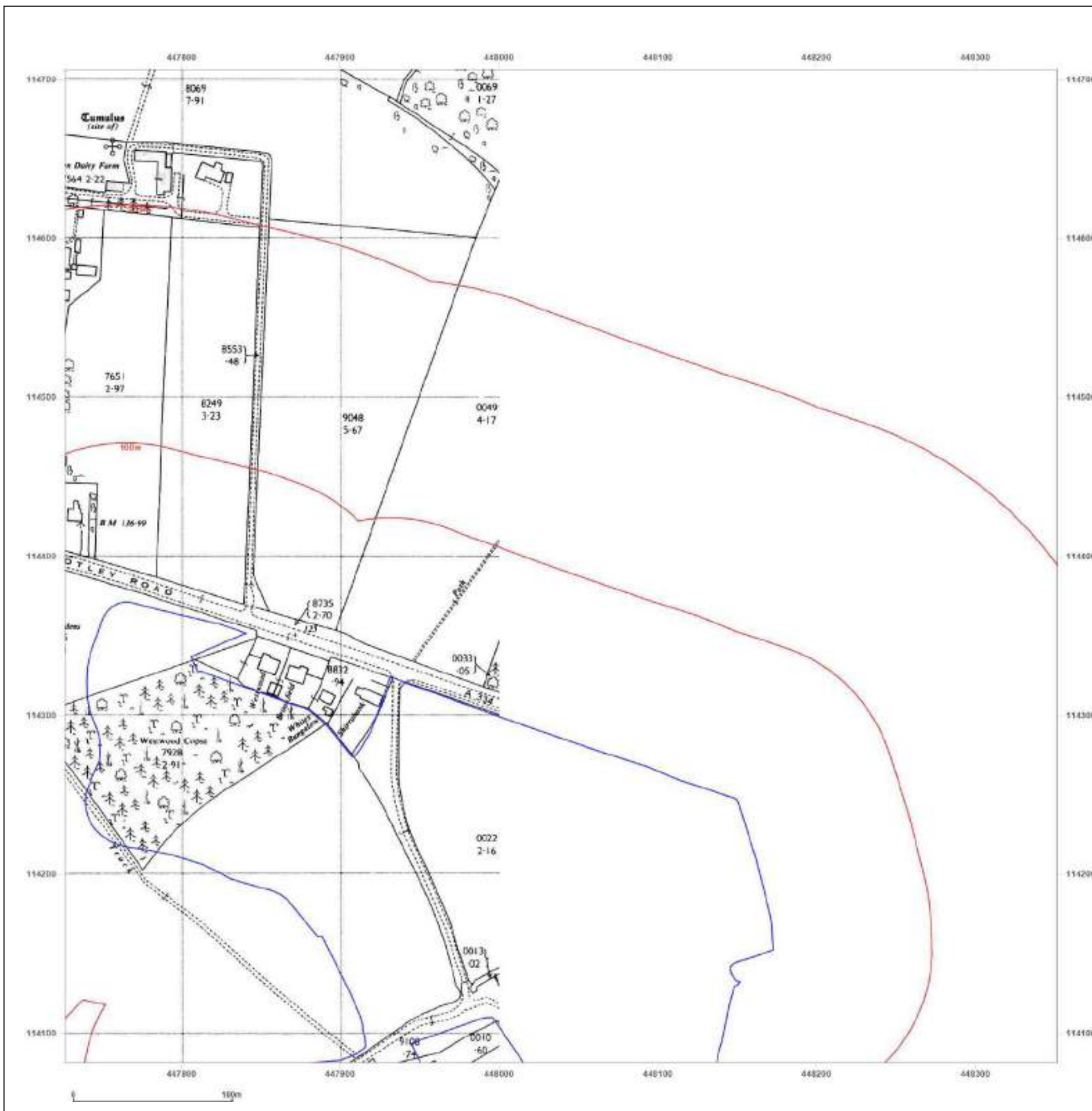


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Site Details:

447749 114067

Client Ref: 20136787
Report Ref: GS-8355426_LS_2_2
Grid Ref: 448039, 114394

Map Name: National Grid

Map date: 1979

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
Levelled 1959

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

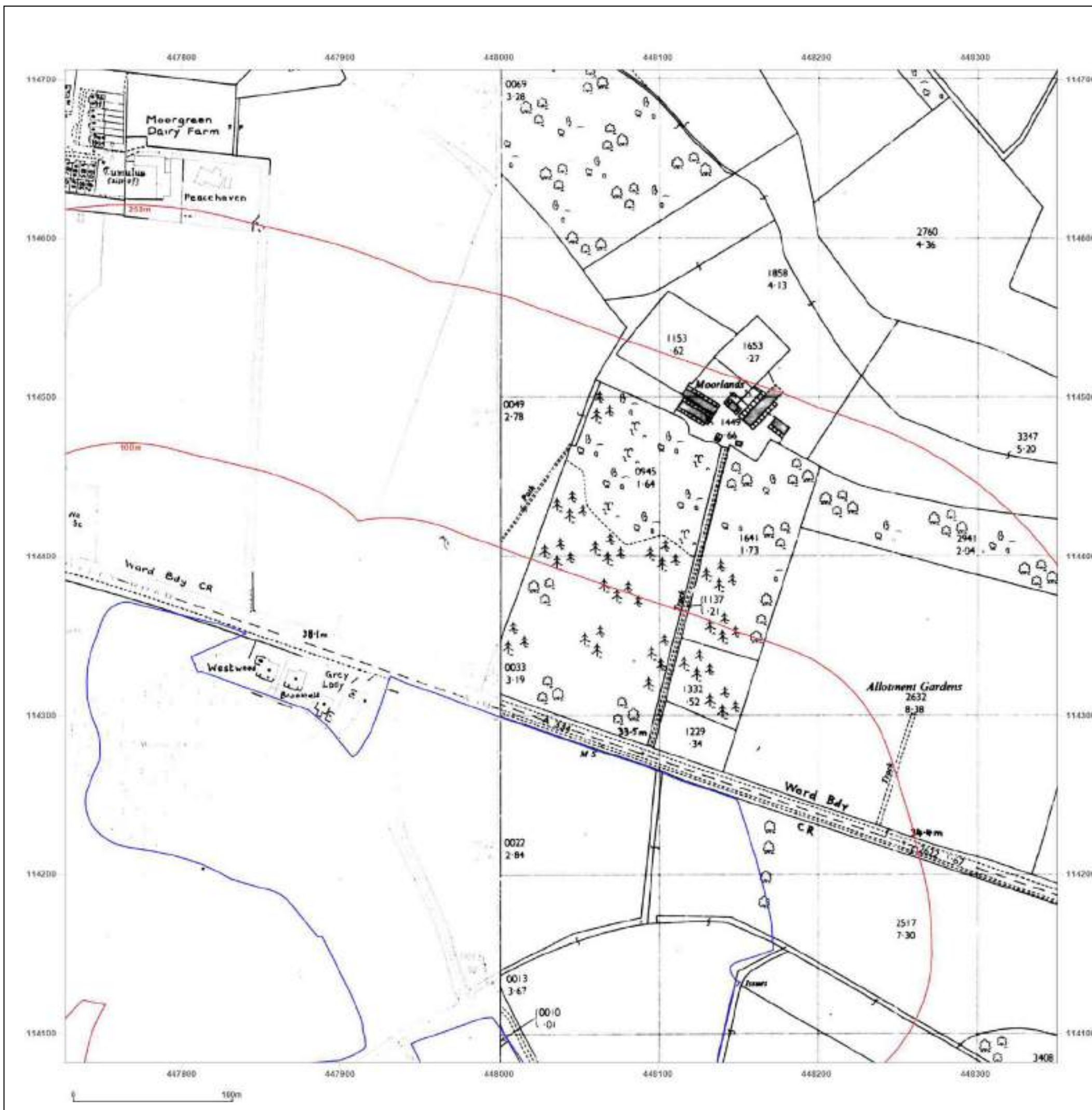


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Site Details:

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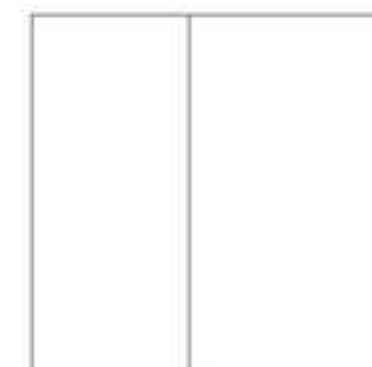
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Report Ref: GS-8355426_LS_2_2
Grid Ref: 448039, 114394

Map Name: National Grid

Map date: 1986

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
 Revised 1986
 Edition N/A
 Copyright 1986
 Levelled 1986



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Production date: 23 November 2021

Map legend available at:
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Appendix F

PRELIMINARY UXO RISK MAP

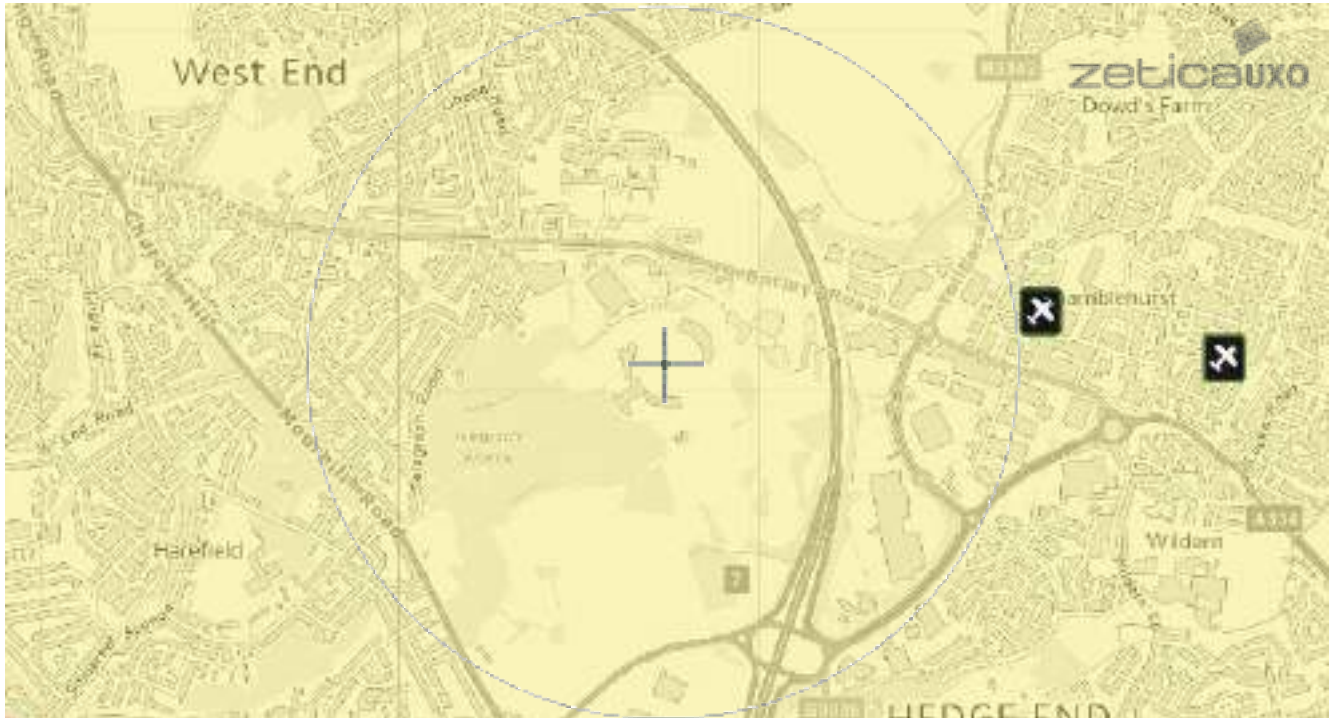


UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 447747,114075



LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.

- military**
- industry**
- UXO find**
- transport**
- dock**
- Luftwaffe targets**
- utilities**
- Bombing decoy**
- other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

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It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Pre-Desk Study Assessment

Site:	Ageas Bowl, Botley Road, Southampton, Hampshire
Client:	WSP
Contact:	Matthew Jones
Date:	30 th November 2021
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	None identified.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Docks, wharves and shipyards on the River Itchen. ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including engineering and metal works. ■ Royal Flying Corps (RFC) Southampton. ■ Military camps and training areas. ■ Anti-Aircraft (AA) guns.
WWI Bombing	None identified on the Site.
Interwar Military Activity on or Affecting the Site	None identified.
WWII Military Activity on or Affecting the Site	None identified.
WWII Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Docks, wharves and shipyards on the River Itchen. ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including engineering and metal works. ■ Royal Air Force (RAF) Southampton. ■ Military barracks, camps, and training areas. ■ Anti-Aircraft (AA) guns and anti-Invasion defences.
WWII Bombing Decoys (within 5km of Site)	1No. located approximately 4.4km southeast of the Site.
WWII Bombing	During WWII the Site was located in the Rural District (RD) of Winchester, which officially recorded 795No. High Explosive (HE) bombs with a bombing density of 7.6 bombs per 405 hectares (ha). No readily available records have been found to indicate that the Site was bombed.
Post-WWII Military Activity on or Affecting the Site	None identified.
Recommendation	A detailed desk study, whilst always prudent, is not considered essential in this instance.
Further information	For information about Zetica's detailed UXO desk studies and other UXO services, please visit our website: www.zeticauxo.com .

Details and downloadable resources covering the most common sources of UXO hazard affecting sites in the UK can be found [here](#).

If you have any further queries, please don't hesitate to get in contact with us at uxo@zetica.com or 01993 886 682.

This summary is based on a cursory review of readily available records. Caution is advised if you plan to action work based on this summary.

It should be noted that where a potentially significant source of UXO hazard has been identified on the Site, the requirement for a detailed desk study and risk assessment has been confirmed and no further research will be undertaken at this stage. It is possible that further in-depth research as part of a detailed UXO desk study and risk assessment may identify other potential sources of UXO hazard on the Site.

Appendix G

LOCAL AUTHORITY RESPONSE

1. **Contaminated Land/Remediation Register**

- This Service can confirm that no land has been determined as Statutory Contaminated Land, as defined in Part IIA of the EPA 1990, at the enquiry site (as defined by the boundary shown on the plan supplied) nor within 250m of the boundary of the enquiry site.

1. **Historical details of environmental issues which could affect the soil;**

- This Service is unable to answer this question as 'environmental issues' is ambiguous and subjective. This Service provides factual responses to questions that are specific and objective.

1. **Previous reports relating to the site, particularly anything you may hold relating to previous investigation/remediation (of the cricket ground and subsequent addition of golf-course etc.);**

- Based on the information available to me at the time of making this response, this Service holds no reports relating to the area covered by the enquiry site.
- The Service is aware that the site has a history of development and that site investigation work was undertaken and reports submitted as part of the planning processes for the golf course extension, expansion of the cricket ground stands and hotel development. I would therefore advise that the Councils Planning Department should hold this information.
- This Service is also aware that the material imported as part of the work to extend the golf course was regulated by the Environment Agency and so we would advise the enquirer to contact them with regards to the records that they may hold.

1. **Records of any current/historic petroleum storage on or near to the site; and,**

- I have checked the information, available at the time of making this response, and I can confirm that this Service holds record of 4 locations (located within 250m of the boundary of the enquiry site (as defined by the boundary shown on the plan supplied), with historical petroleum storage - details below. I would however highlight that licences regarding petroleum storage are issued and managed by Hampshire County Council and therefore I would advise the enquirer to contact them regarding the information they hold.
 - C11/11 – Moorgreen Service Station – Botley Road, West End – 447578 114382
 - C11/15 – JHG Barfoot – Botley Road, West End – 447442 114391
 - C12/13 – Homebase, Tollbar Way, Hedge End – 448282 114159
 - C1/2 – Autocolour, Unit 1, Wellington Park, Hedge End – 448338 114348

1. **Details of any historic landfill or waste sites on or near to site. E.g. records relating to waste materials they could accept et.**

- A review the records held by this Service shows that there is 1 site (Ref – EAHLD34229, SU448000114400) located within 250m of the boundary of the enquiry site (as defined by the

boundary shown on the plan supplied). This is from historic data supplied to the Council by the Environment Agency and therefore I would advise the enquirer to contact them for the details they hold regarding that site.



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2 Grosvenor Square
Southampton, Hampshire
SO15 2BE

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