

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 78**

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

This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

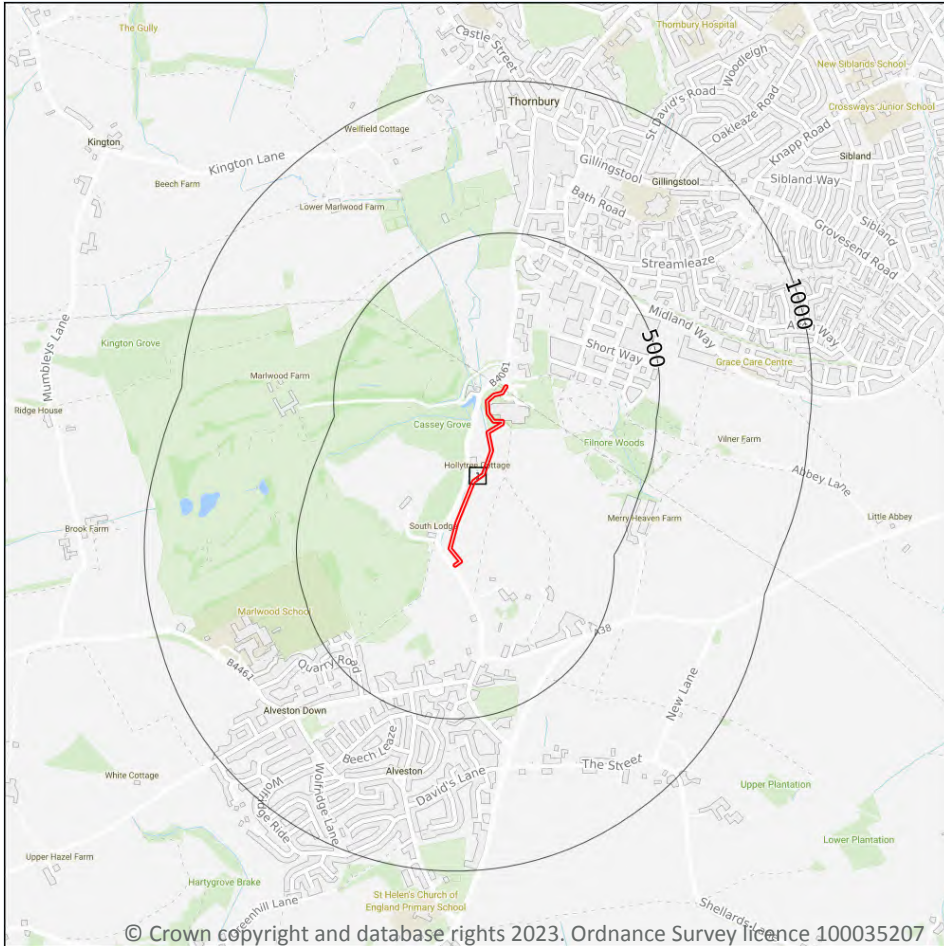
0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 82**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW250_chepstow_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

15.4 Superficial geology (50k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

15.5 Superficial 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 superficial deposits (the zone between the land surface and the water table).

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

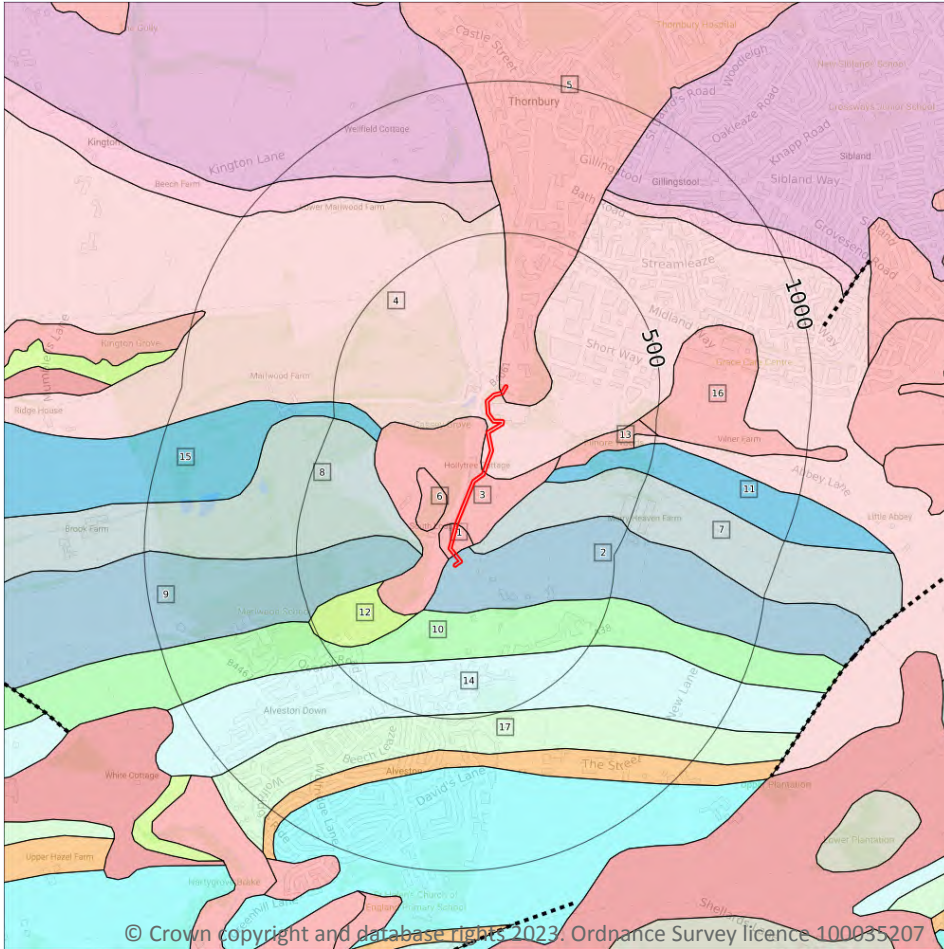
0

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

17

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 85**

ID	Location	LEX Code	Description	Rock age
1	On site	MMMF- CONG	MERCIA MUDSTONE GROUP (MARGINAL FACIES) - CONGLOMERATE	-
2	On site	BRL-LMST	BLACK ROCK LIMESTONE SUBGROUP - LIMESTONE	TOURNAISIAN
3	On site	MMG- MDST	MERCIA MUDSTONE GROUP - MUDSTONE	-

ID	Location	LEX Code	Description	Rock age
4	On site	TSG-SDST	TINTERN SANDSTONE FORMATION - SANDSTONE	FAMENNIAN
5	On site	MMMF-CONG	MERCIA MUDSTONE GROUP (MARGINAL FACIES) - CONGLOMERATE	-
6	47m SW	MMMF-CONG	MERCIA MUDSTONE GROUP (MARGINAL FACIES) - CONGLOMERATE	-
7	47m S	AVO-MDLM	AVON GROUP - MUDSTONE AND LIMESTONE, INTERBEDDED	TOURNAISIAN
8	85m SW	AVO-MDLM	AVON GROUP - MUDSTONE AND LIMESTONE, INTERBEDDED	TOURNAISIAN
9	88m SW	BRL-LMST	BLACK ROCK LIMESTONE SUBGROUP - LIMESTONE	TOURNAISIAN
10	150m S	BRL-DOLO	BLACK ROCK LIMESTONE SUBGROUP - DOLOSTONE	TOURNAISIAN
11	194m E	AVO-LMST	AVON GROUP - LIMESTONE	TOURNAISIAN
12	196m SW	BAN-MDST	BLUE ANCHOR FORMATION - MUDSTONE	NORIAN
13	211m E	MMMF-CONG	MERCIA MUDSTONE GROUP (MARGINAL FACIES) - CONGLOMERATE	-
14	303m S	GUO-LMOOL	GULLY OOLITE FORMATION - LIMESTONE, OOIDAL	WISEAN
15	338m W	AVO-LMST	AVON GROUP - LIMESTONE	TOURNAISIAN
16	443m E	MMG-MDST	MERCIA MUDSTONE GROUP - MUDSTONE	-
17	484m S	CDM-DLMDST	CLIFTON DOWN MUDSTONE FORMATION - DOLOMITE-MUDSTONE	WISEAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

7

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Very High	High
On site	Fracture	Very High	Very High
On site	Fracture	Very High	Very High



Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Moderate
On site	Fracture	Low	Low
47m SW	Fracture	Very High	Very High
47m S	Fracture	Very 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

16.1 BGS Boreholes

Records within 250m

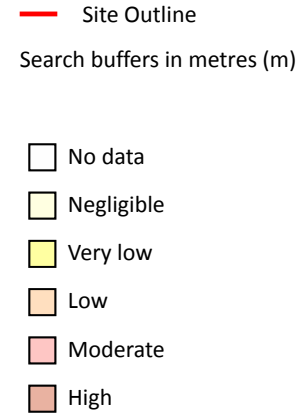
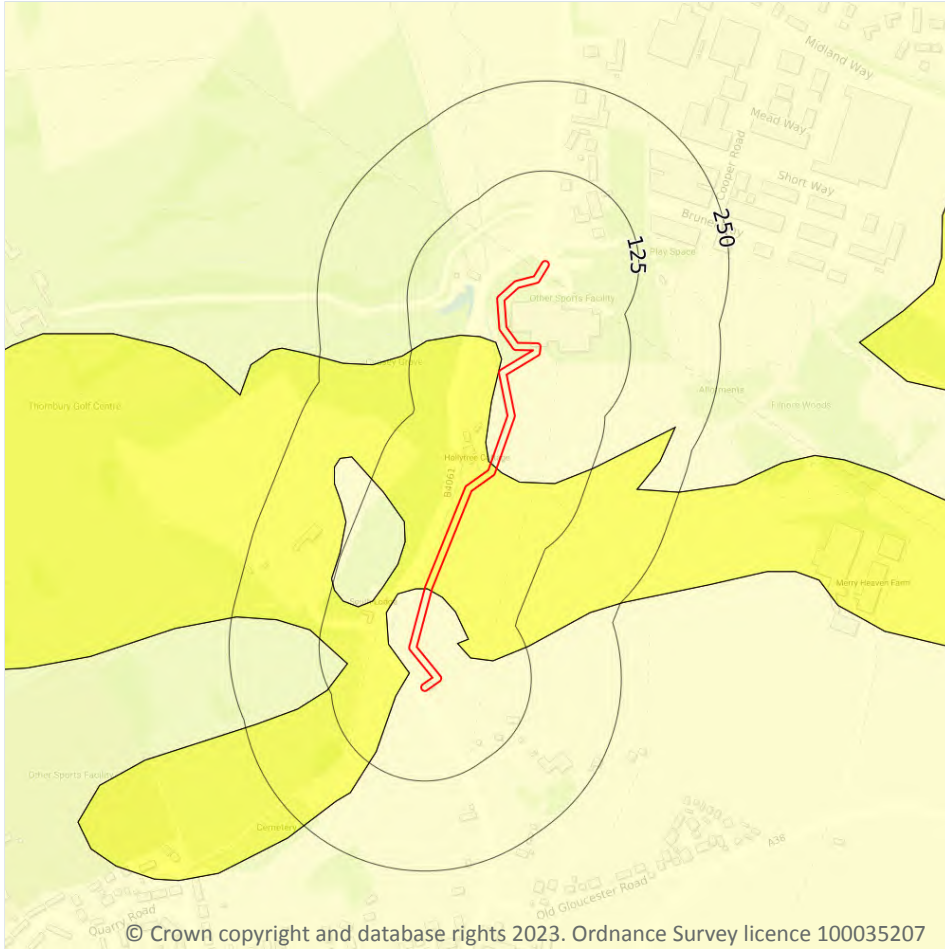
0

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.

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

3

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).

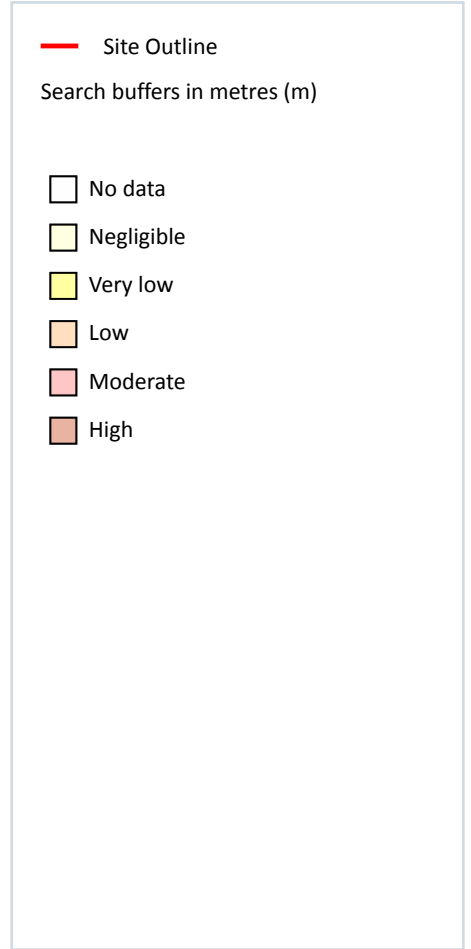
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 89**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
47m SW	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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 91**

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.

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

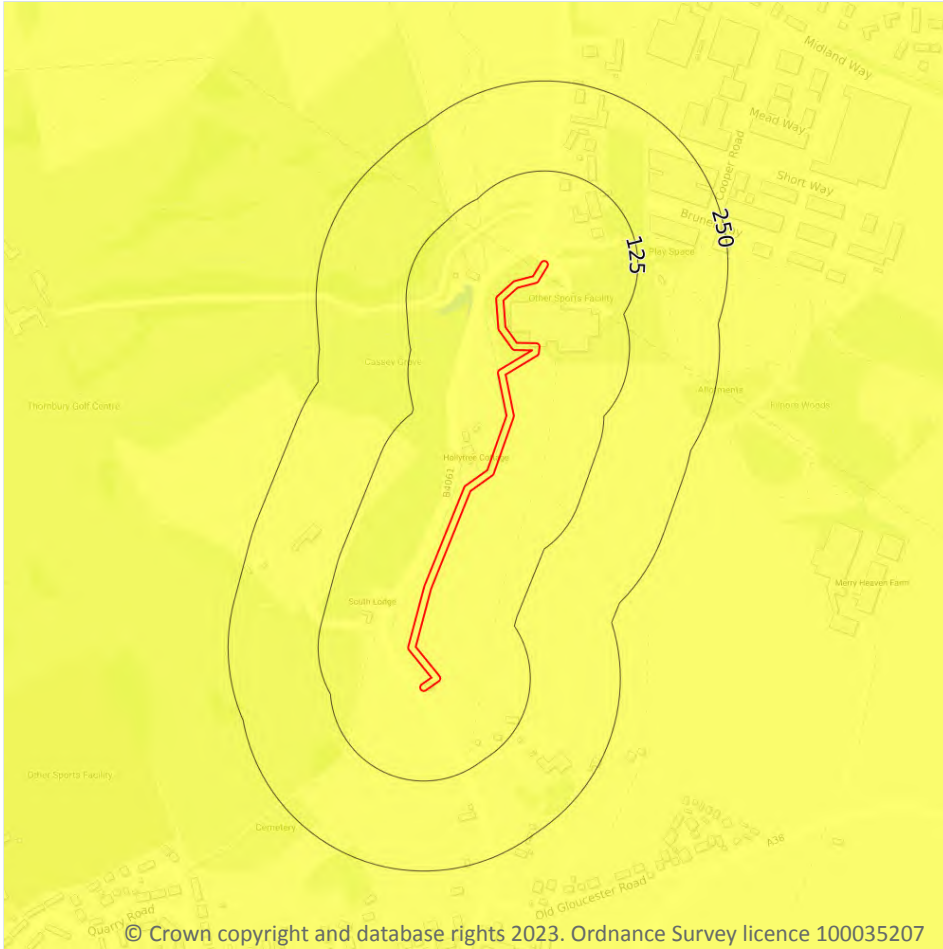
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 92**

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

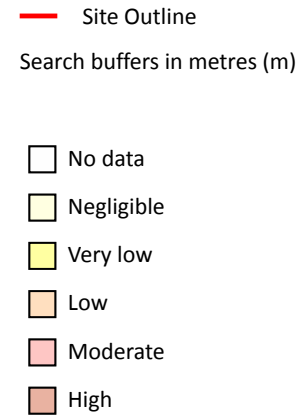
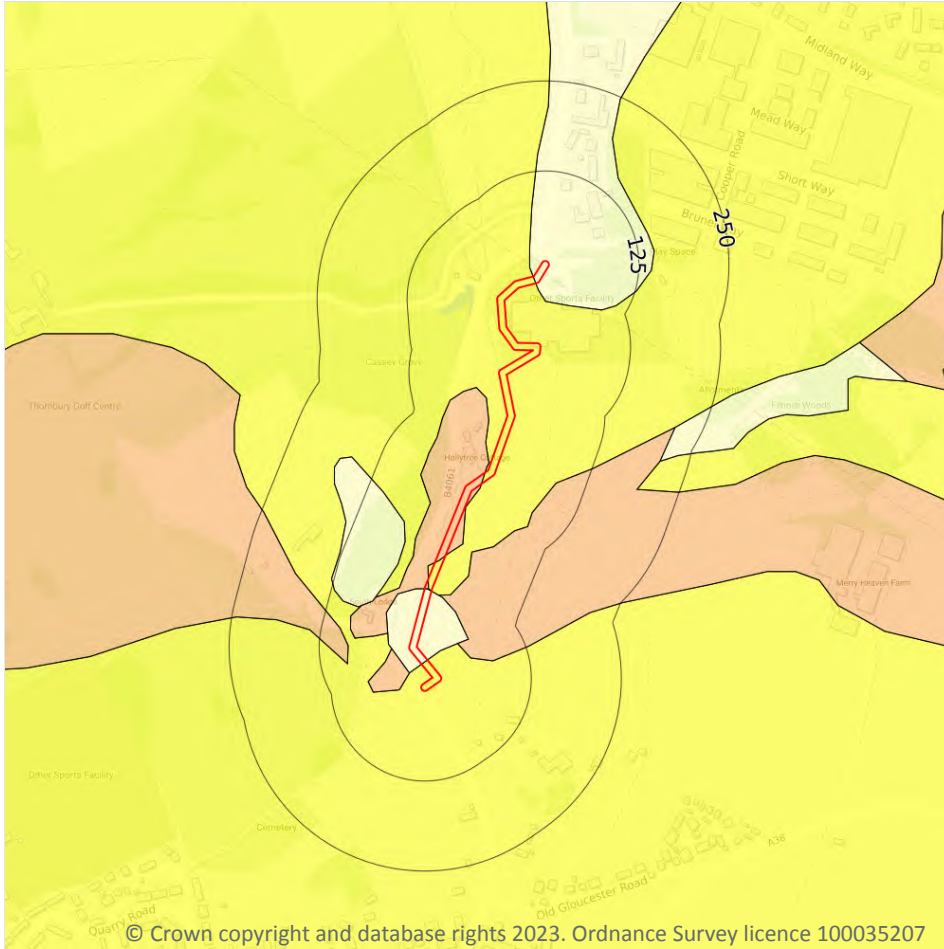
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 93**

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



17.5 Landslides

Records within 50m

6

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

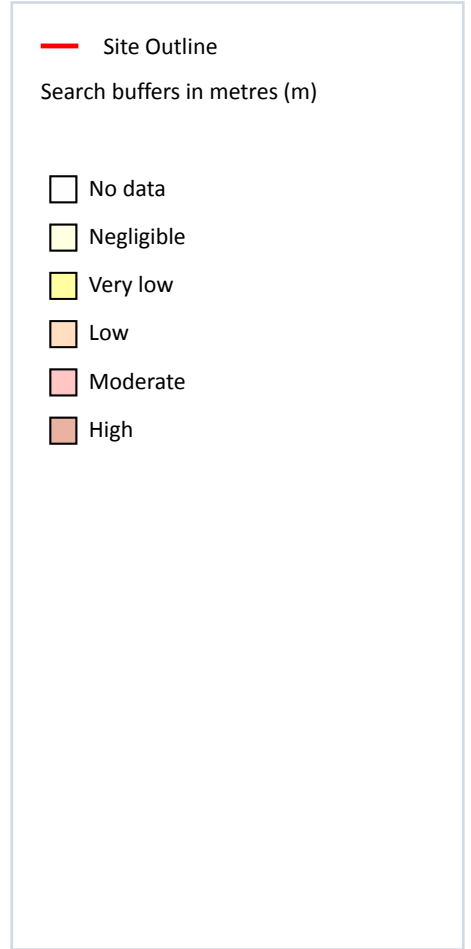
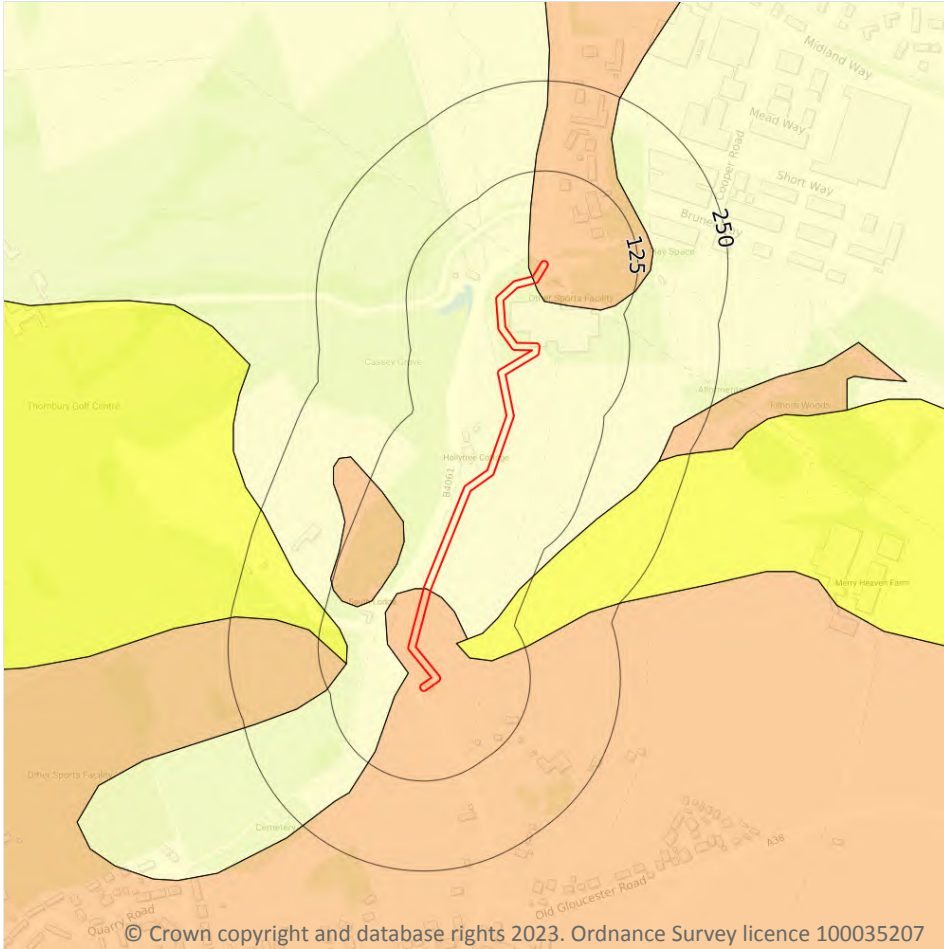
Features are displayed on the Natural ground subsidence - Landslides map on **page 94**

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

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
11m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
20m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
47m SW	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

4

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 96**

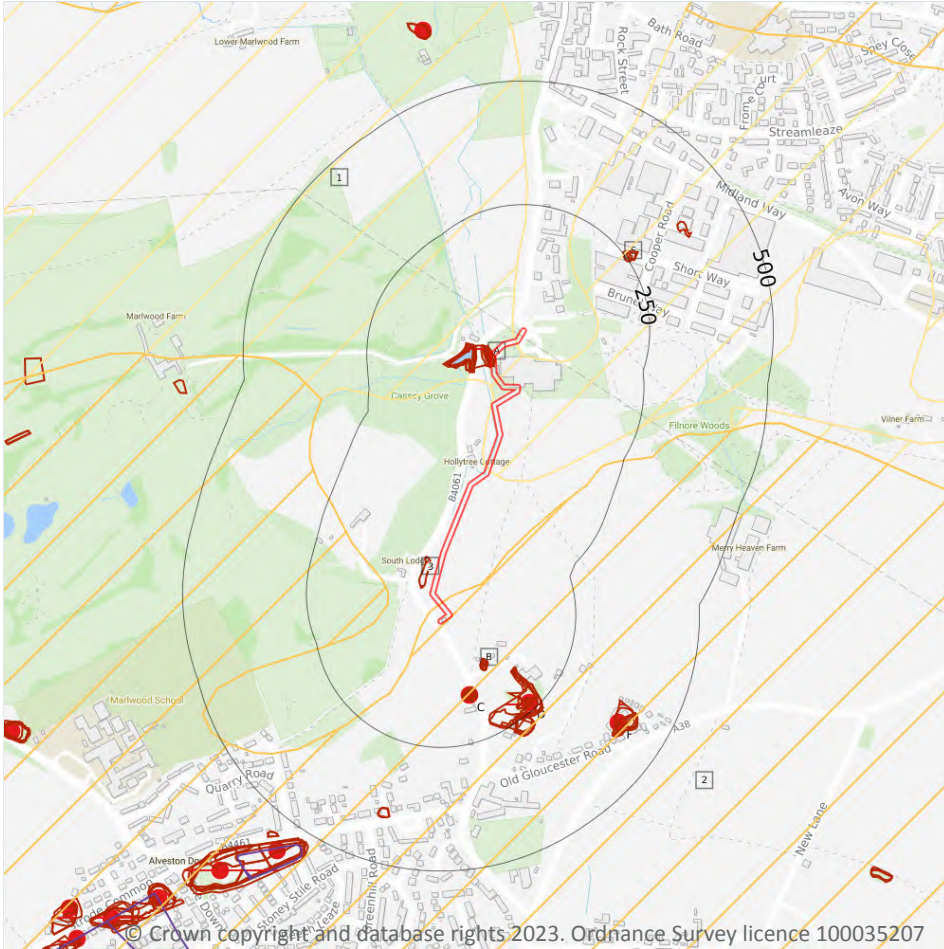
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
On site	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.
47m SW	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.
47m S	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.

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
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 98**

ID	Location	Details	Description
C	154m S	Name: Alveston Green Address: Alveston, THORNBURY, Gloucestershire Commodity: Limestone 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
D	233m S	Name: Alveston Address: Alveston, BRISTOL, Avon Commodity: Limestone 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
F	400m SE	Name: Alveston Green Address: Alveston, THORNBURY, Gloucestershire Commodity: Dolomite 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
39

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 98**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Pond	1901	1:10560
A	On site	Pond	1919	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Pond	1923	1:10560
A	On site	Pond	1954	1:10560
A	On site	Pond	1973	1:10000
A	2m N	Pond	1886	1:10560
A	3m N	Ponds	1880	1:10560
3	14m SW	Ponds	1973	1:10000
A	29m N	Pond	1901	1:10560
A	29m N	Pond	1919	1:10560
A	32m N	Pond	1923	1:10560
A	33m N	Pond	1954	1:10560
A	33m N	Pond	1973	1:10000
A	36m N	Pond	1886	1:10560
B	105m S	Reservoir	1954	1:10560
B	108m S	Reservoir	1923	1:10560
B	108m S	Reservoir	1901	1:10560
B	108m S	Reservoir	1923	1:10560
B	112m S	Reservoir	1923	1:10560
C	142m S	Unspecified Quarry	1880	1:10560
C	143m S	Unspecified Old Quarry	1954	1:10560
C	144m S	Unspecified Quarry	1886	1:10560
C	147m S	Unspecified Old Quarry	1923	1:10560
C	149m S	Unspecified Old Quarry	1923	1:10560
C	149m S	Unspecified Old Quarry	1923	1:10560
D	163m S	Unspecified Quarry	1886	1:10560
D	163m S	Unspecified Ground Workings	1880	1:10560
D	167m S	Unspecified Ground Workings	1923	1:10560
D	167m S	Unspecified Ground Workings	1901	1:10560
D	194m S	Unspecified Pit	1954	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	210m S	Unspecified Quarry	1880	1:10560
D	212m S	Unspecified Quarry	1880	1:10560
D	224m S	Unspecified Old Quarries	1901	1:10560
D	234m S	Unspecified Old Quarries	1901	1:10560
D	239m S	Unspecified Old Quarry	1923	1:10560
D	239m S	Unspecified Old Quarry	1923	1:10560
D	241m S	Unspecified Old Quarry	1954	1:10560
D	241m S	Unspecified Quarry	1973	1:10000
E	246m NE	Unspecified Pit	1886	1:10560

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

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

6

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**



ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
2	On site	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
6	673m N	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	716m N	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
8	722m NE	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	806m NE	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from 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
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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
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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
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

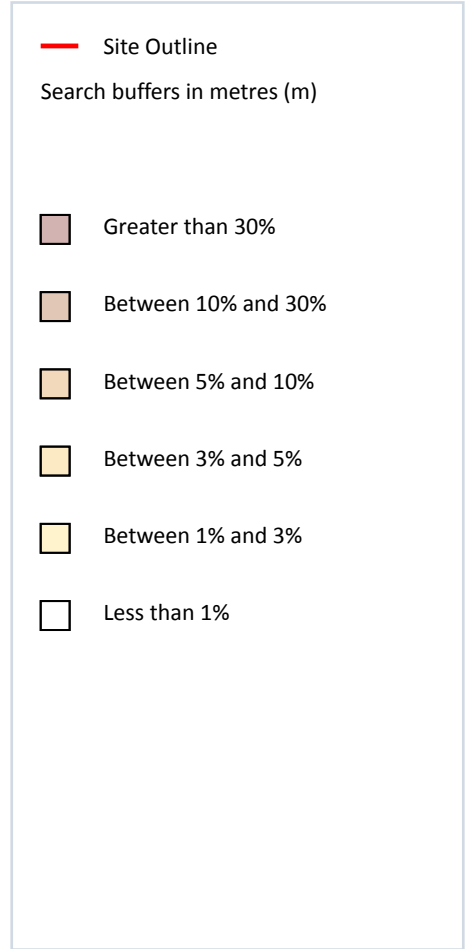
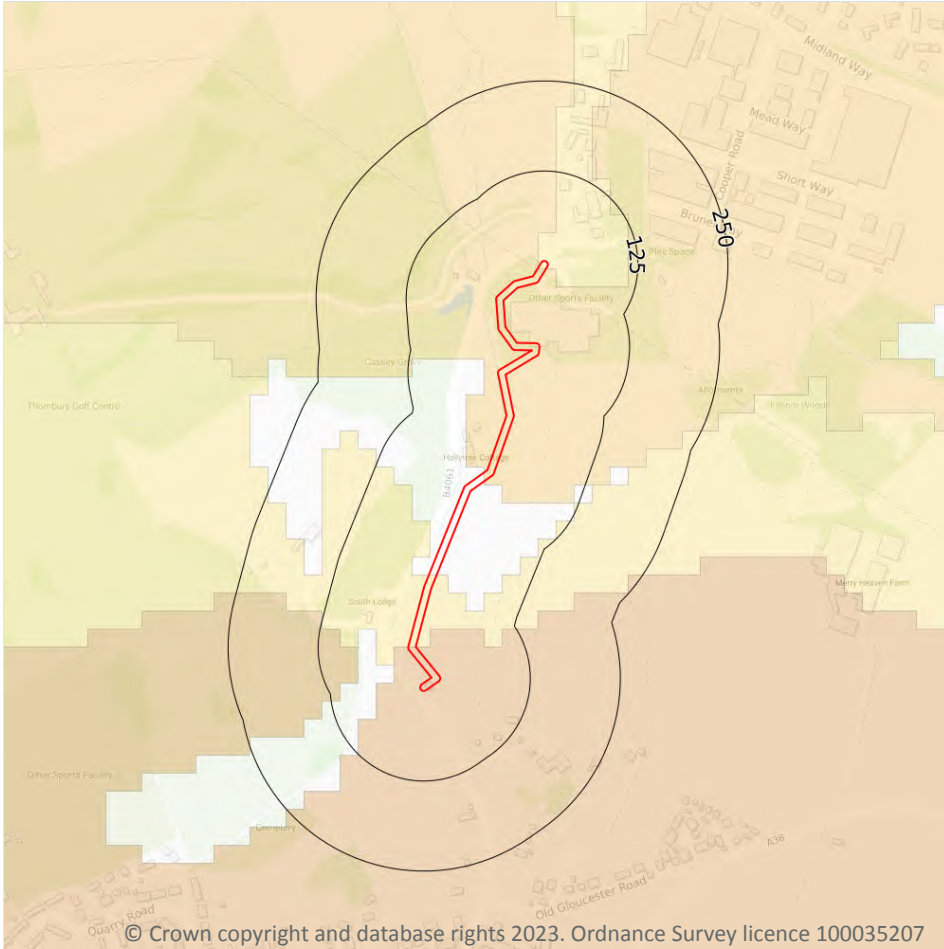
18.13 Clay mining

Records on site	0
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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

4

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 104**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None
On site	Between 5% and 10%	Basic
On site	Between 3% and 5%	Basic

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

15

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 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	50 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
6m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
6m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
17m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
47m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
47m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

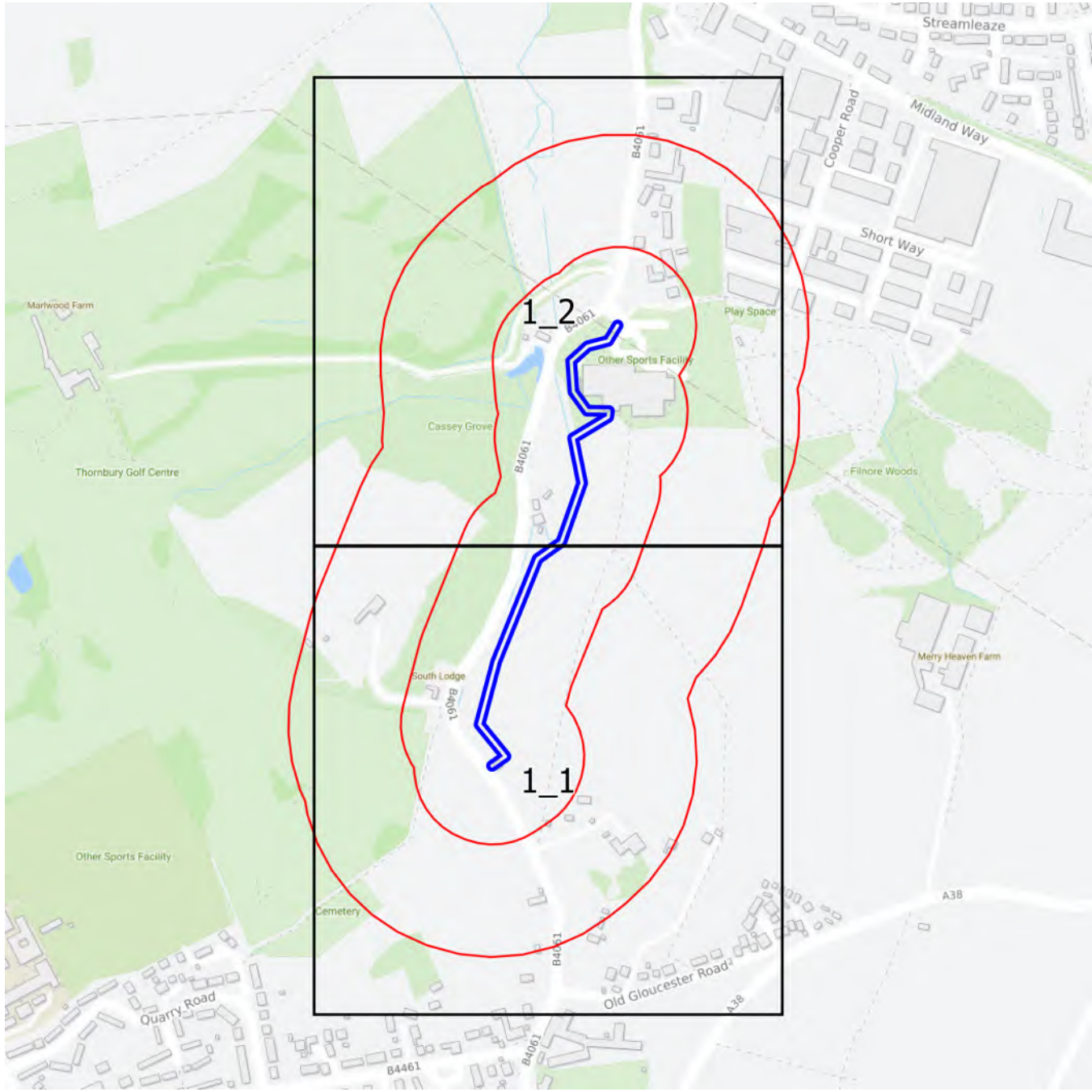
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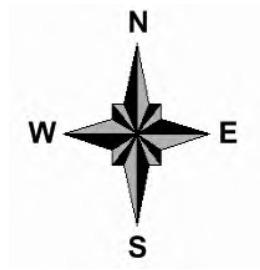


Appendix C. Groundsure Historical Mapping



Groundsure
INSIGHTS

1:2,500 Scale Grid Index



Site Details:

Alveston Hill

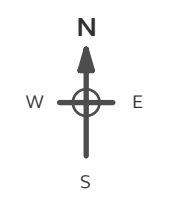
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Grid Ref: 363491, 188674

Map Name: County Series

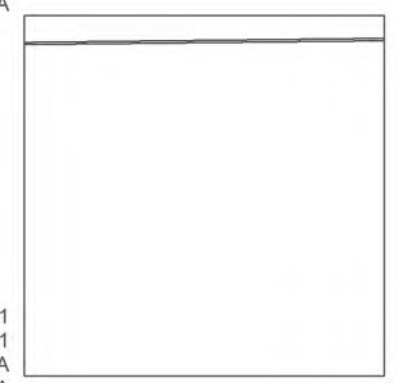
Map date: 1881

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1881
 Revised 1881
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1881
 Revised 1881
 Edition N/A
 Copyright N/A
 Levelled N/A

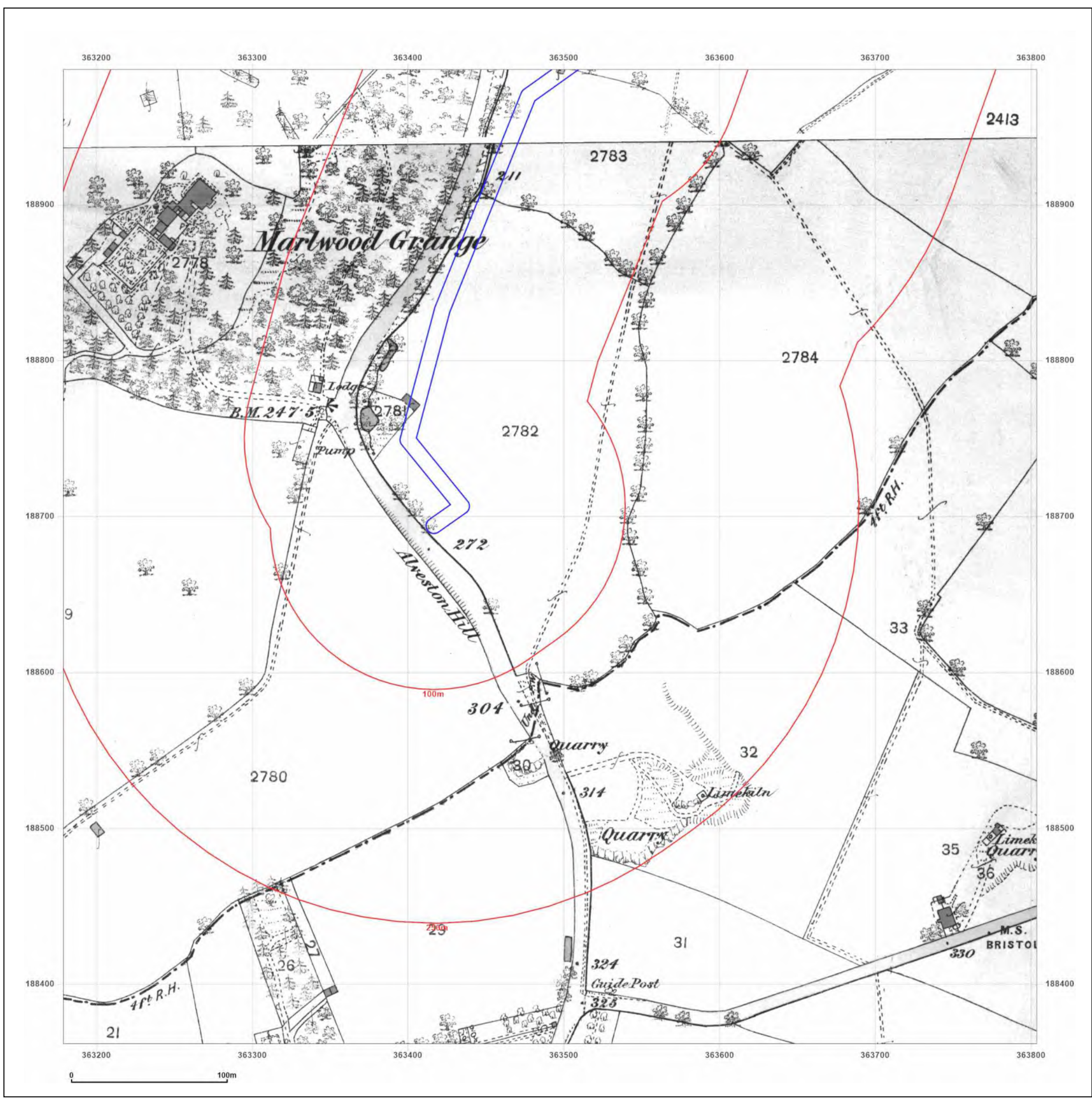


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Site Details:

Alveston Hill

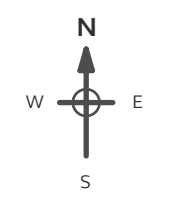
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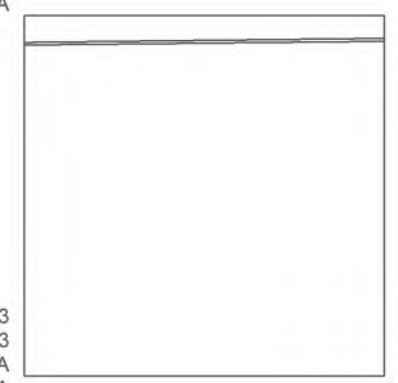
Map date: 1902-1903

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1902
 Revised 1902
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1903
 Revised 1903
 Edition N/A
 Copyright N/A
 Levelled N/A

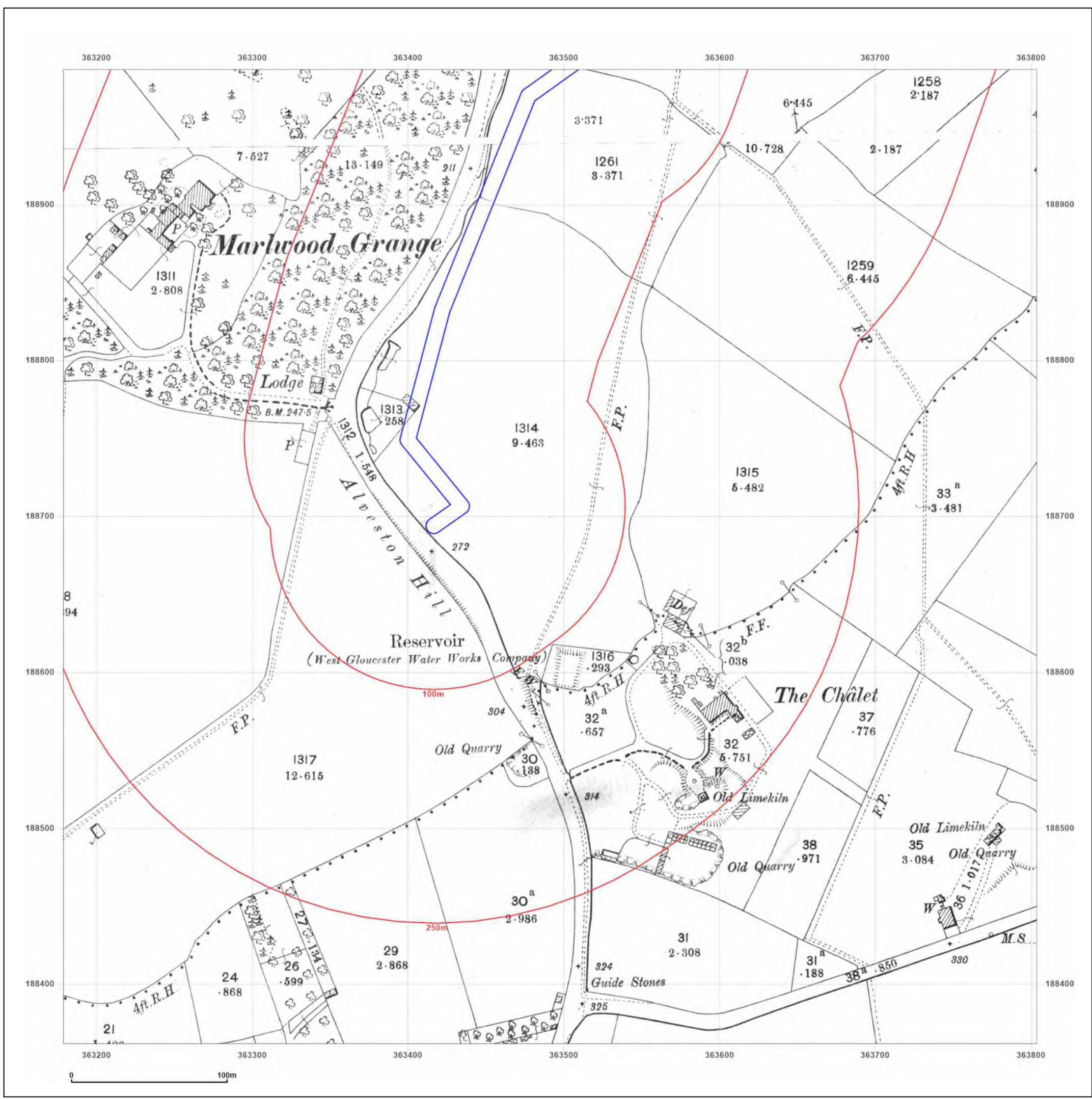


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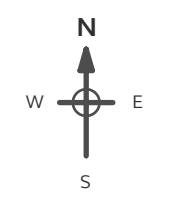
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Grid Ref: 363491, 188674

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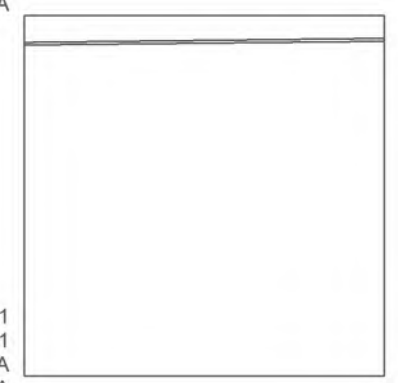
Map date: 1921

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1921
 Revised 1921
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1921
 Revised 1921
 Edition N/A
 Copyright N/A
 Levelled N/A

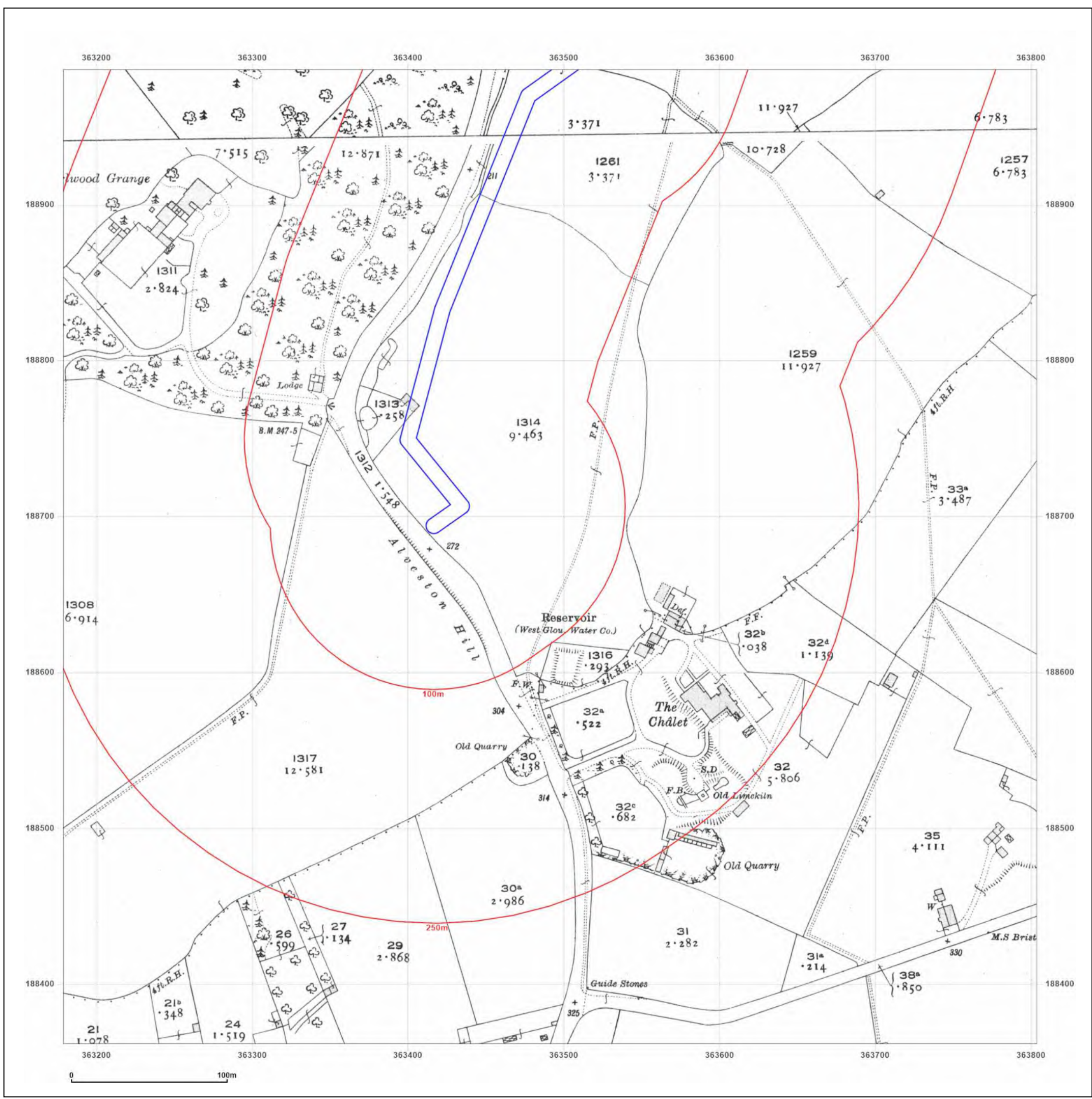


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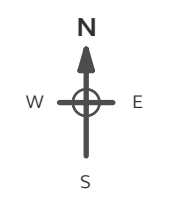
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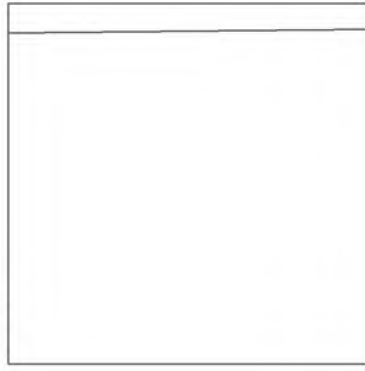
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Map date: 1932

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Printed at: 1:2,500





Surveyed 1932
 Revised 1932
 Edition N/A
 Copyright N/A
 Levelled N/A

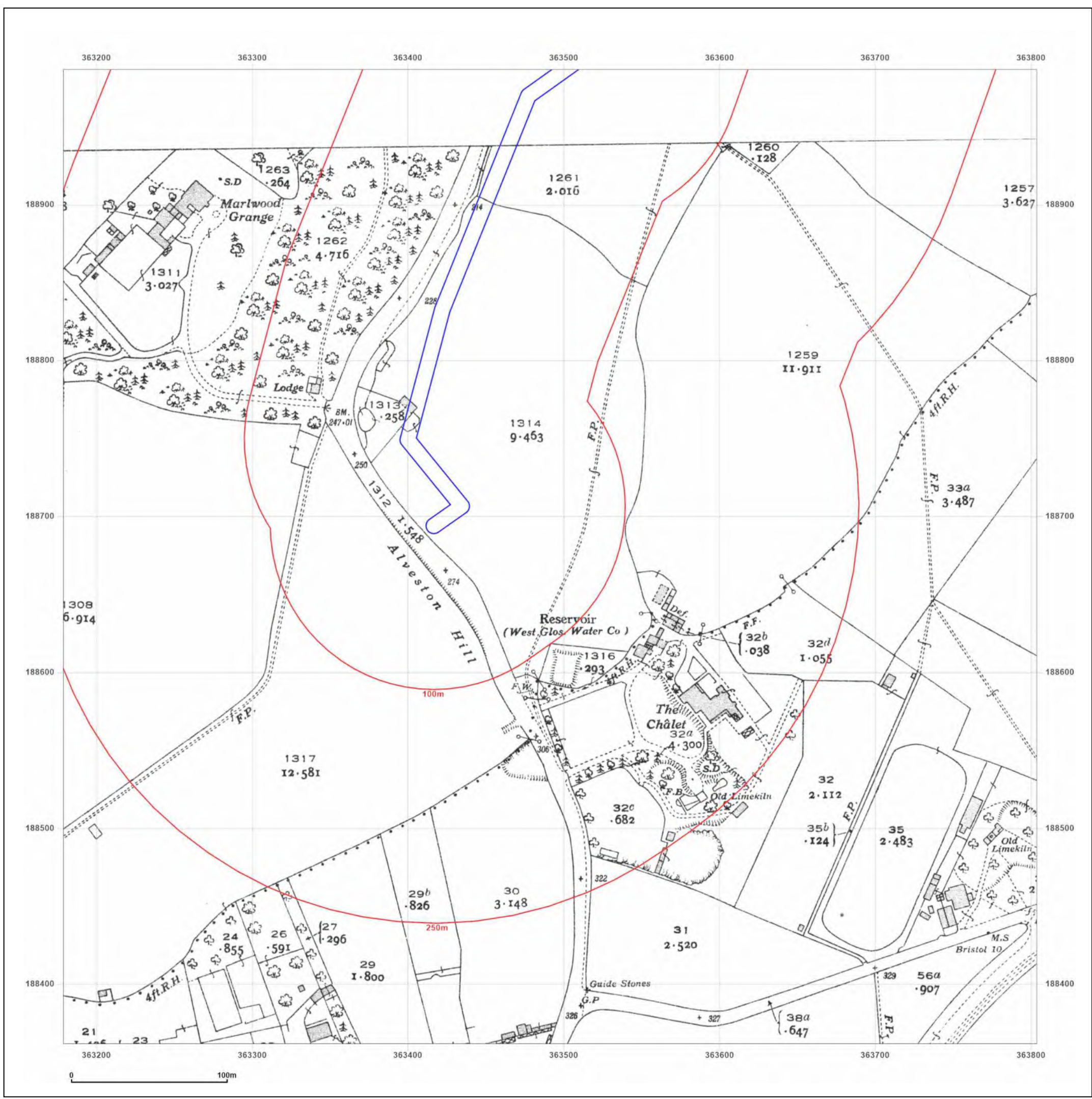


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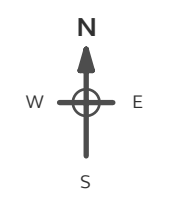
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Grid Ref: 363491, 188674

Map Name: County Series

Map date: 1936

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1936
 Revised 1936
 Edition N/A
 Copyright N/A
 Levelled N/A

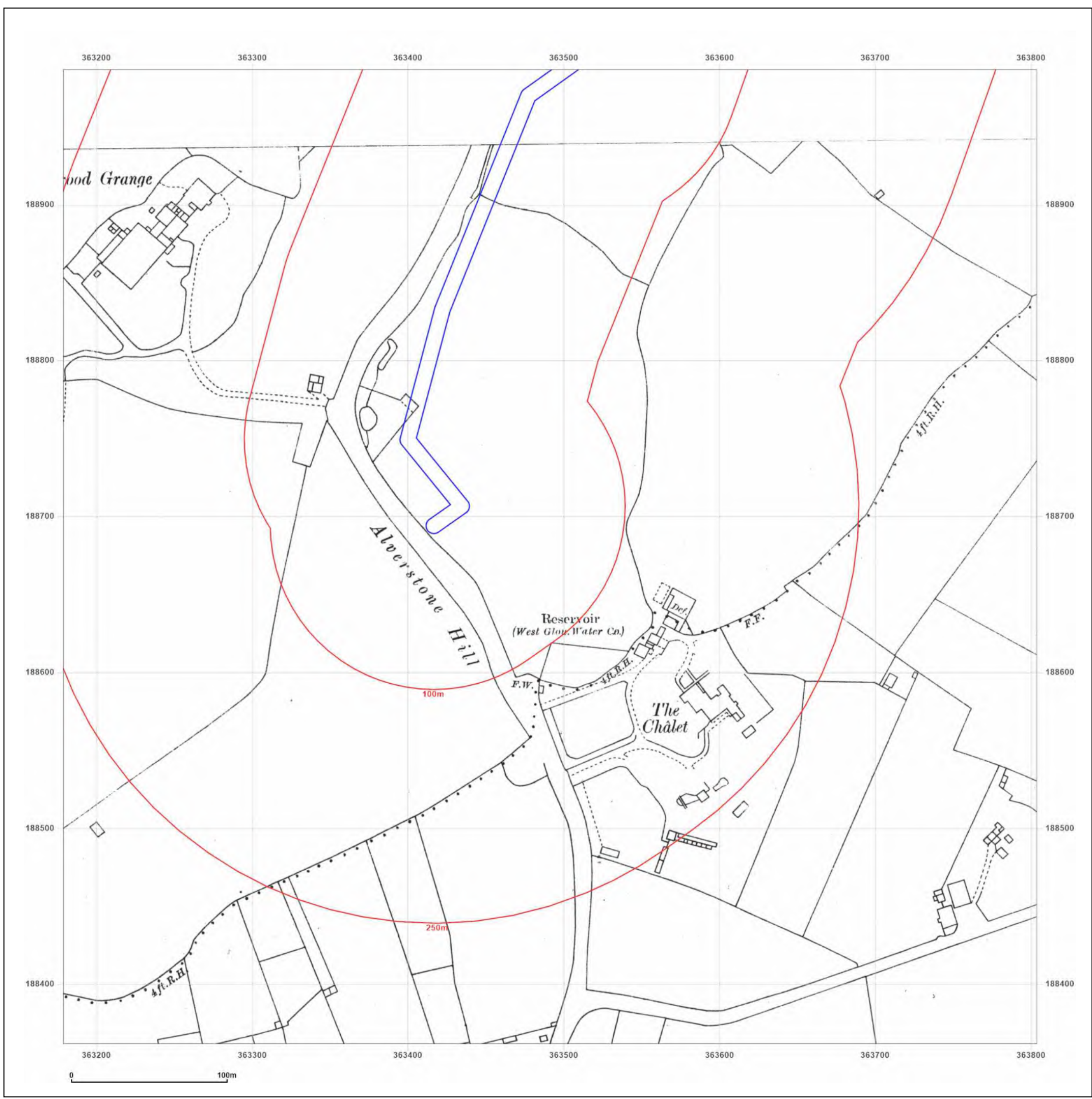


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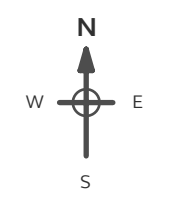
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Grid Ref: 363491, 188674

Map Name: National Grid

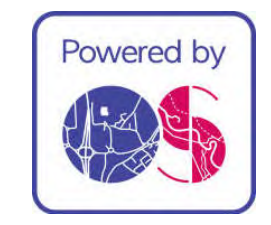
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Printed at: 1:2,500



Surveyed 1965
 Revised 1965
 Edition N/A
 Copyright 1966
 Levelled 1957

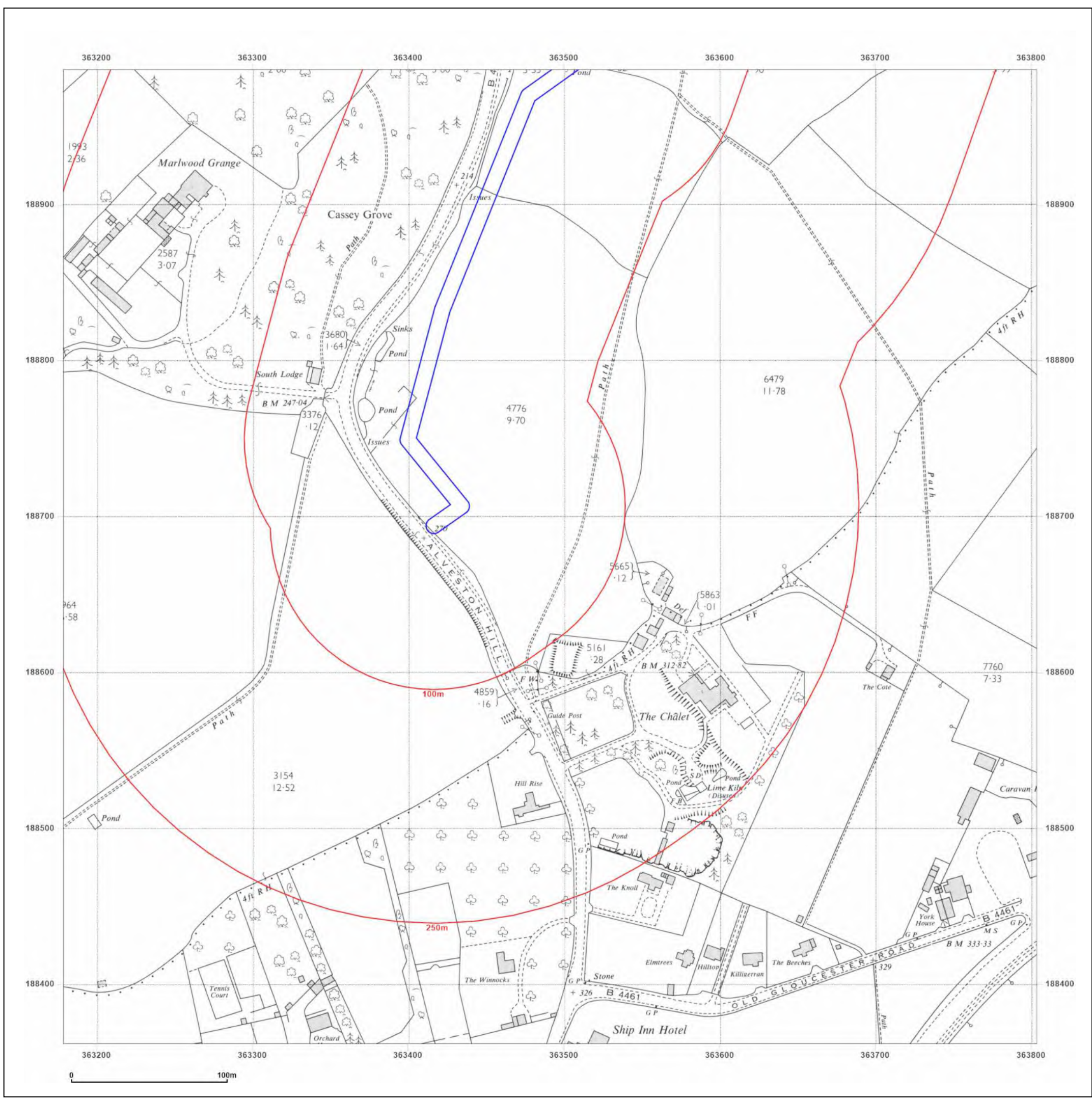


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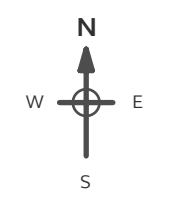
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Grid Ref: 363491, 188674

Map Name: National Grid

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

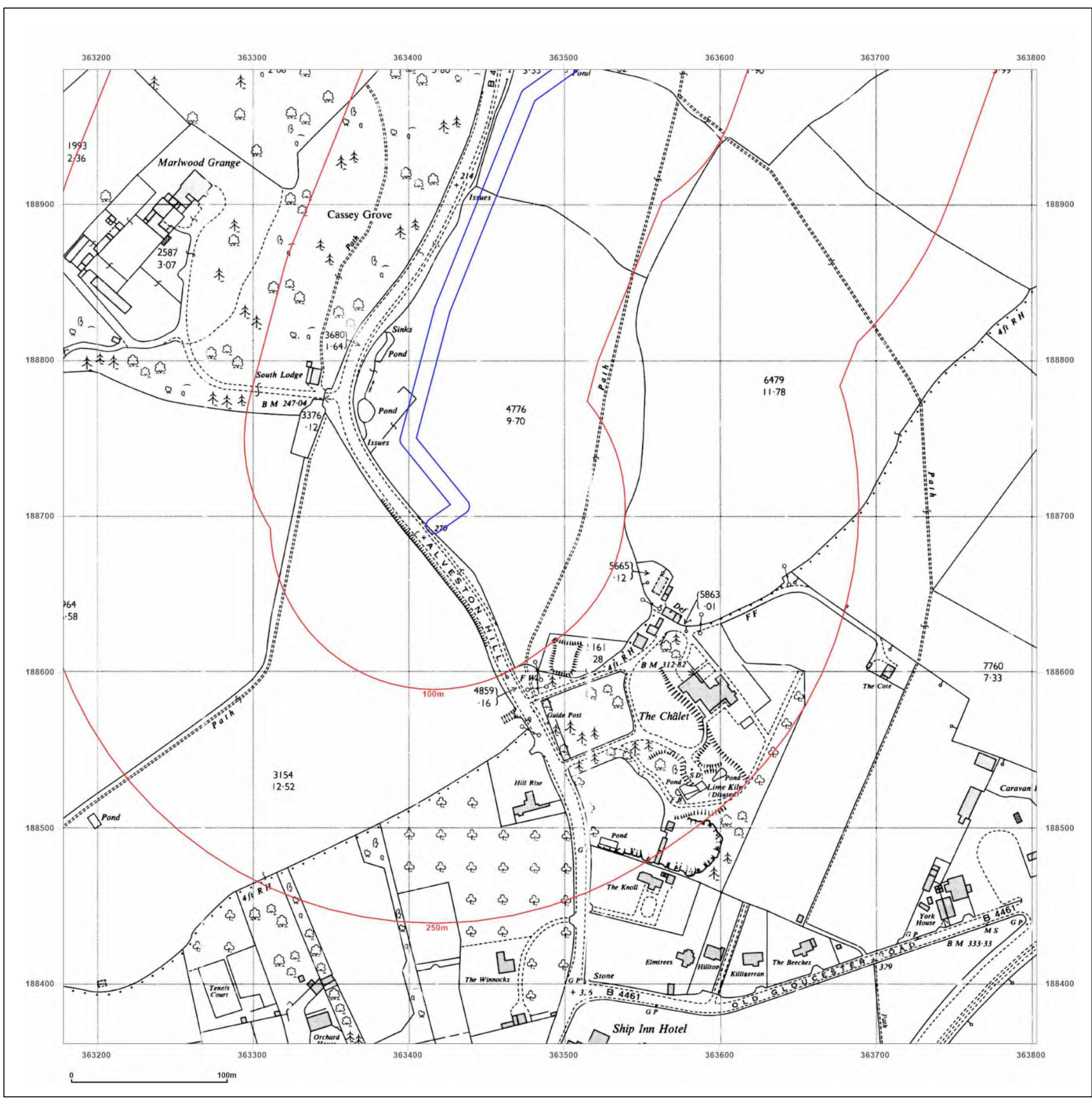


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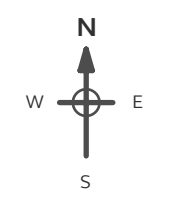
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Grid Ref: 363491, 188674

Map Name: National Grid

Map date: 1977

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1975
 Revised 1975
 Edition N/A
 Copyright 1977
 Levelled 1969

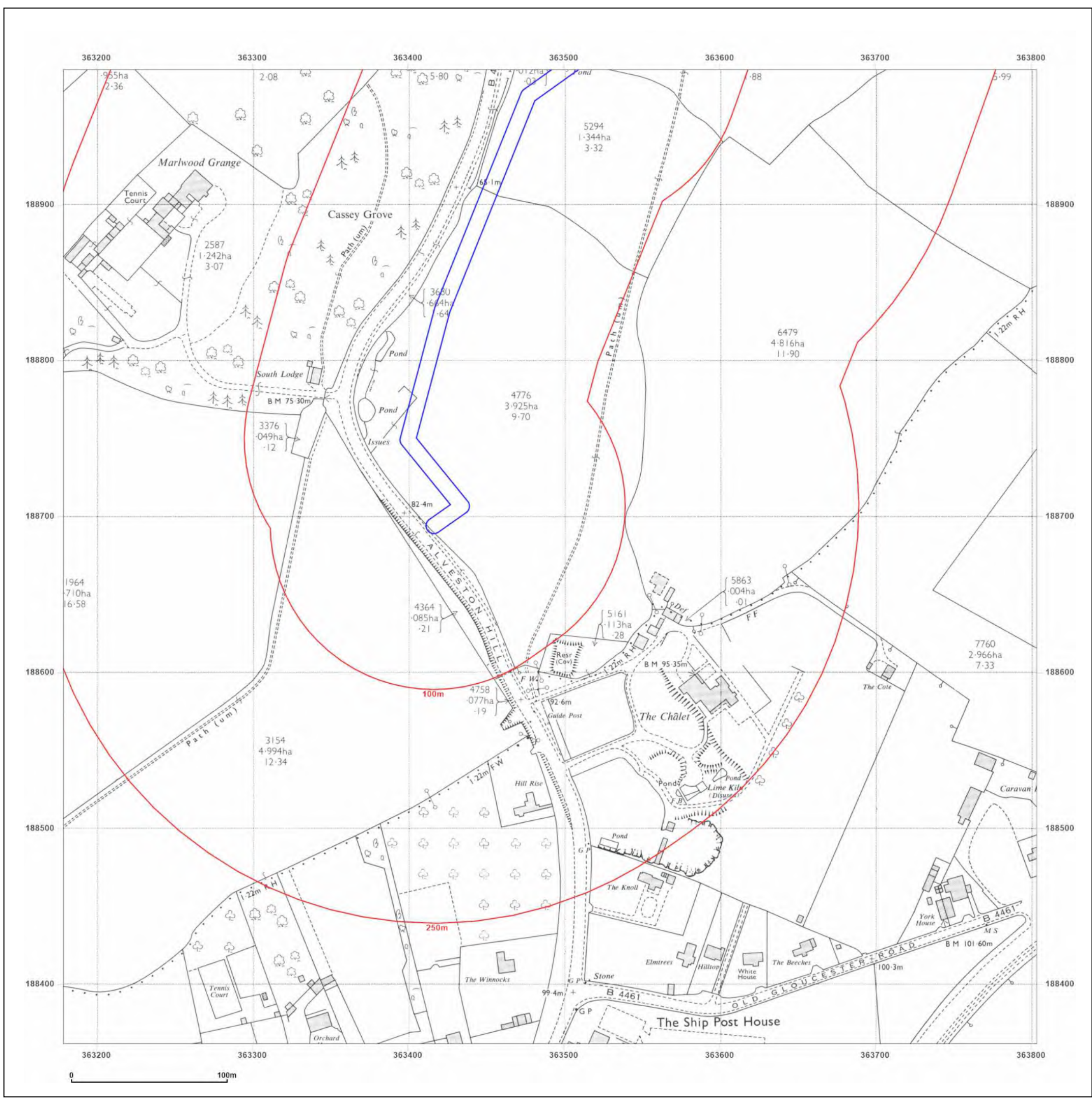


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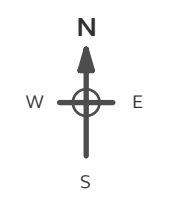
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Map Name: National Grid

Map date: 1977

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
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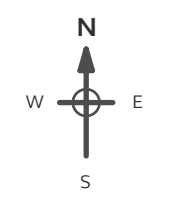
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Grid Ref: 363491, 188674

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
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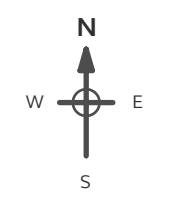
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Grid Ref: 363491, 188674

Map Name: National Grid

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Scale: 1:2,500

Printed at: 1:2,500



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

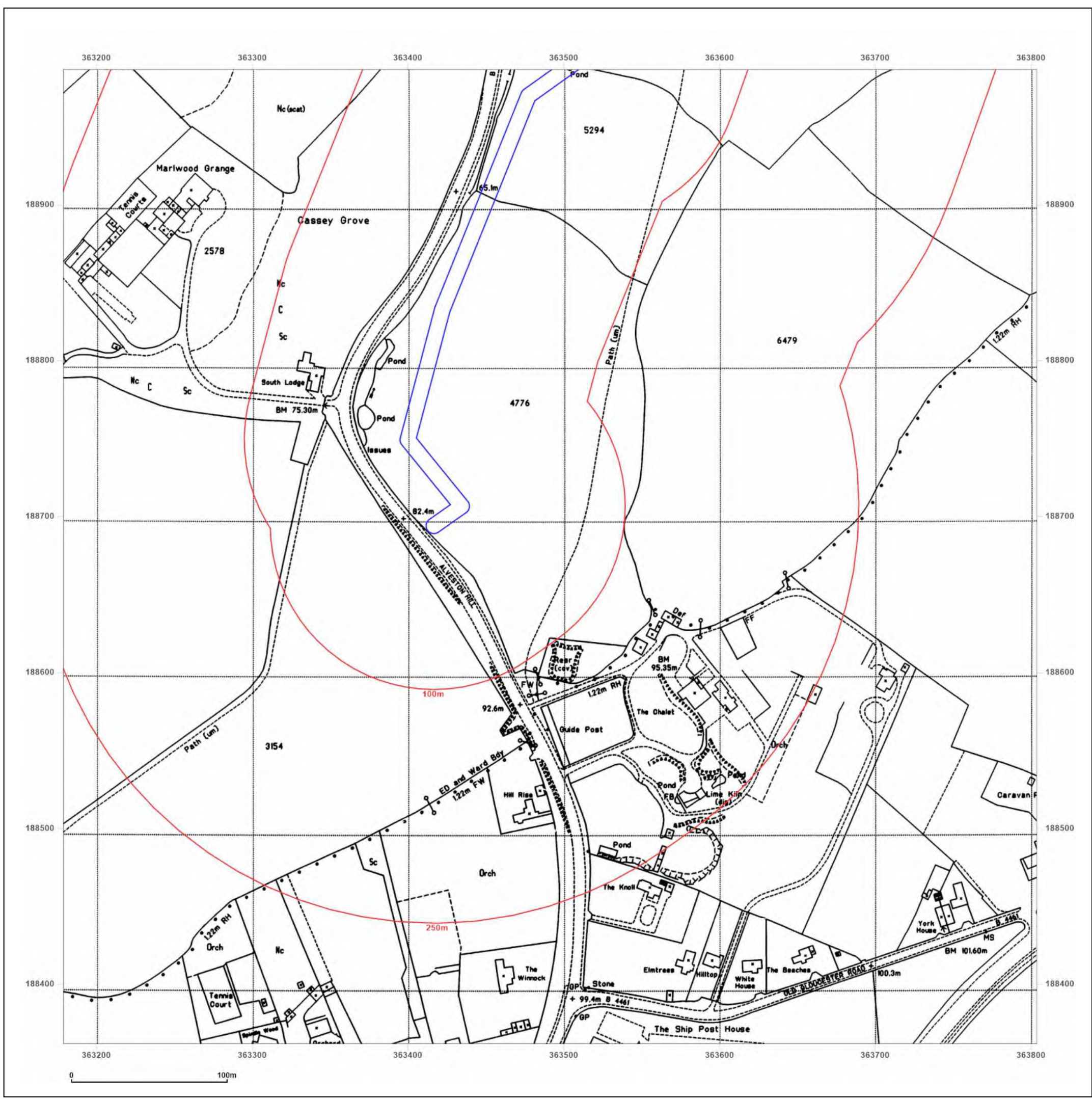


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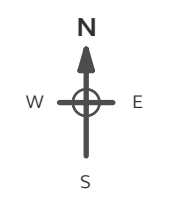
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Grid Ref: 363491, 188674

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



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



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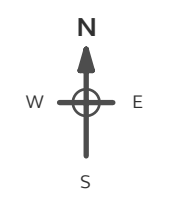
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Map Name: County Series

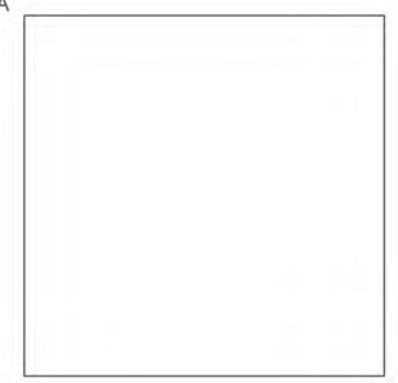
Map date: 1881

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1881
 Revised 1881
 Edition N/A
 Copyright N/A
 Levelled N/A

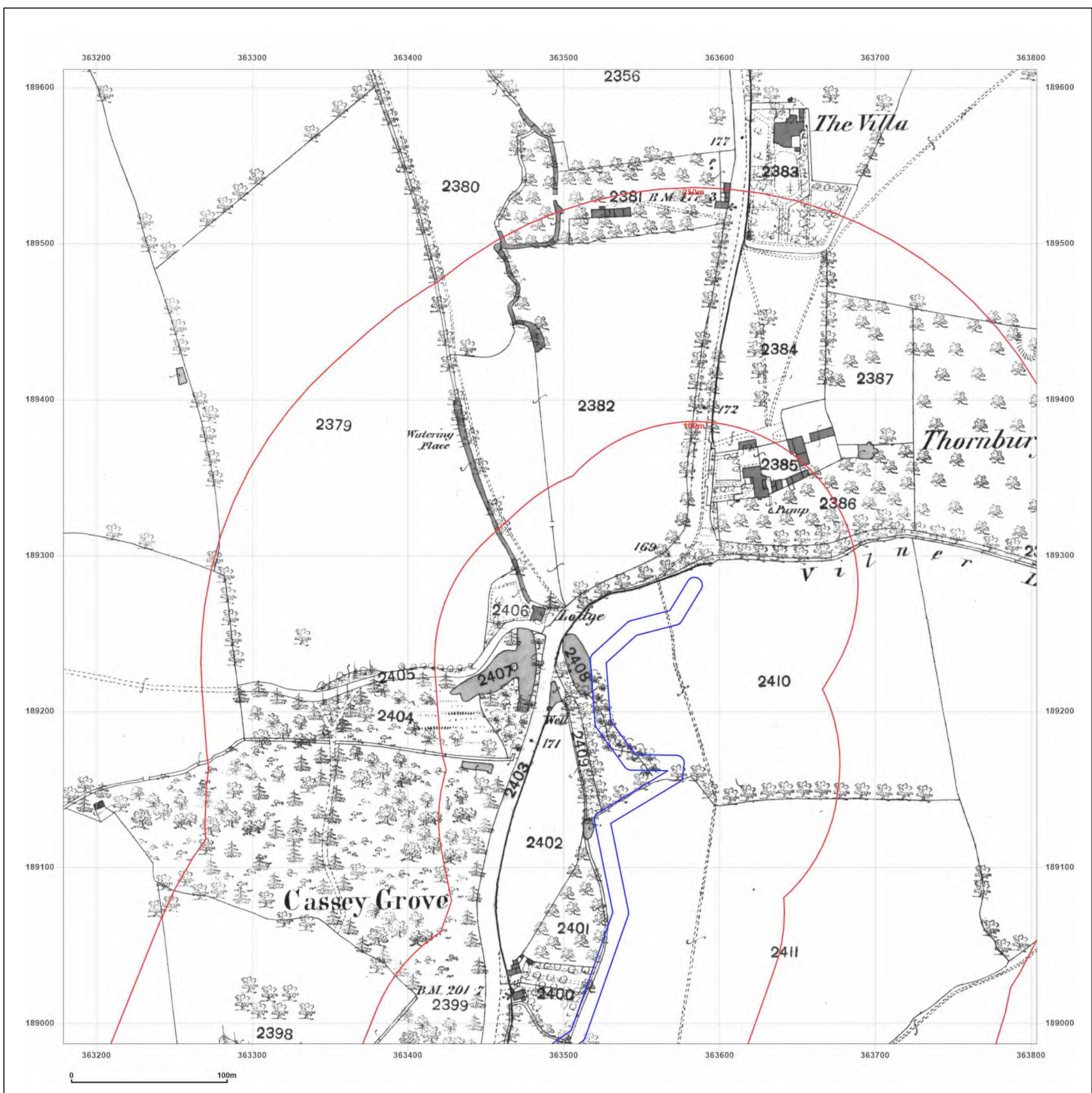


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Site Details:

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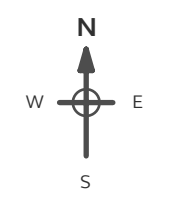
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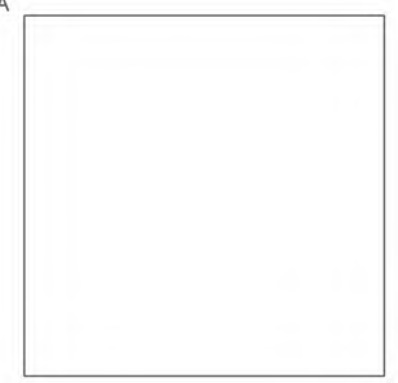
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Scale: 1:2,500

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Surveyed 1902
 Revised 1902
 Edition N/A
 Copyright N/A
 Levelled N/A

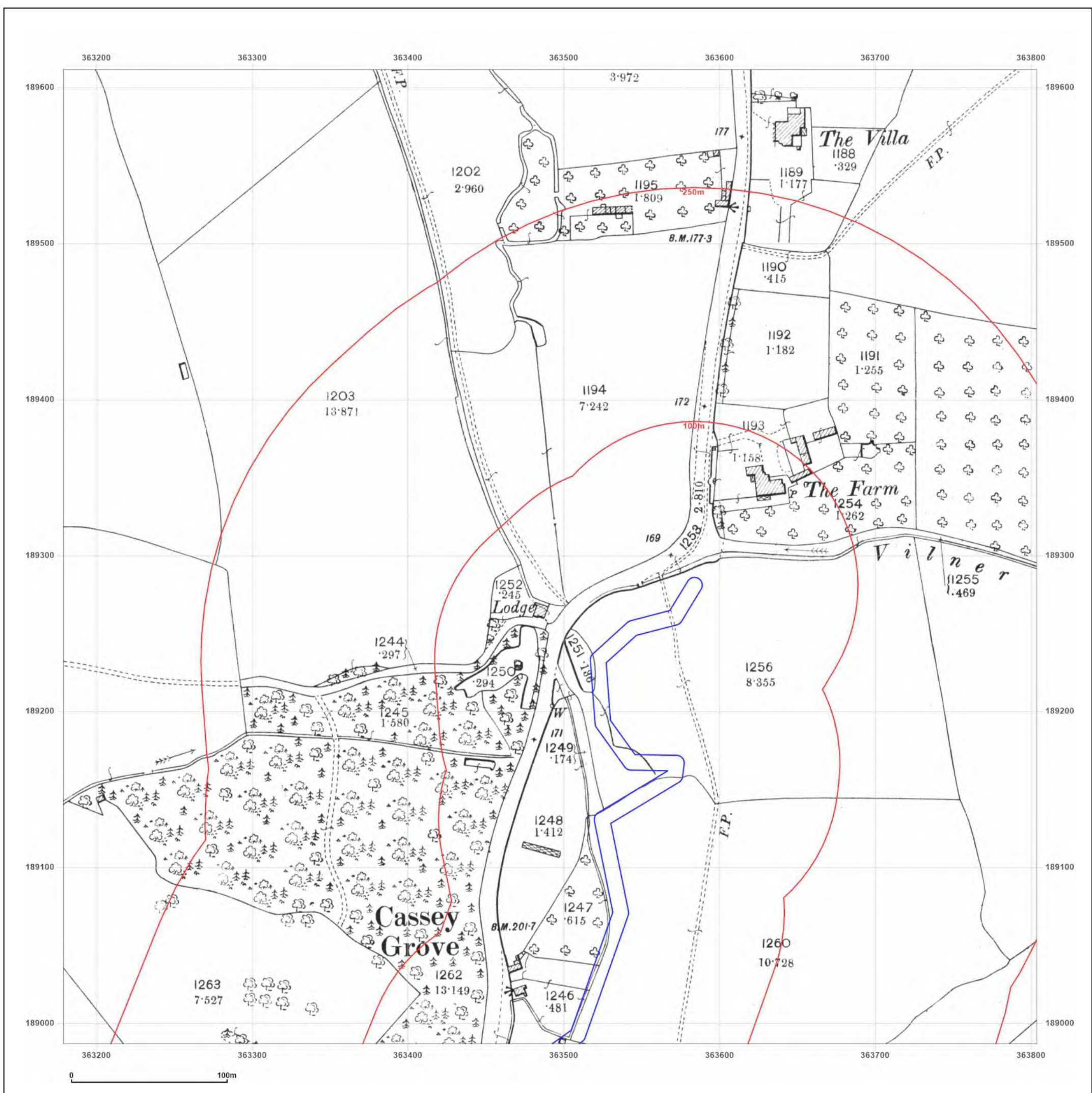


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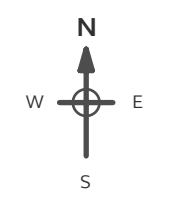
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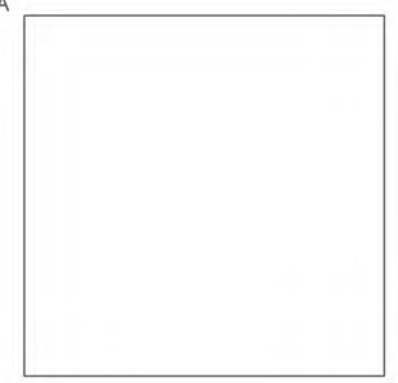
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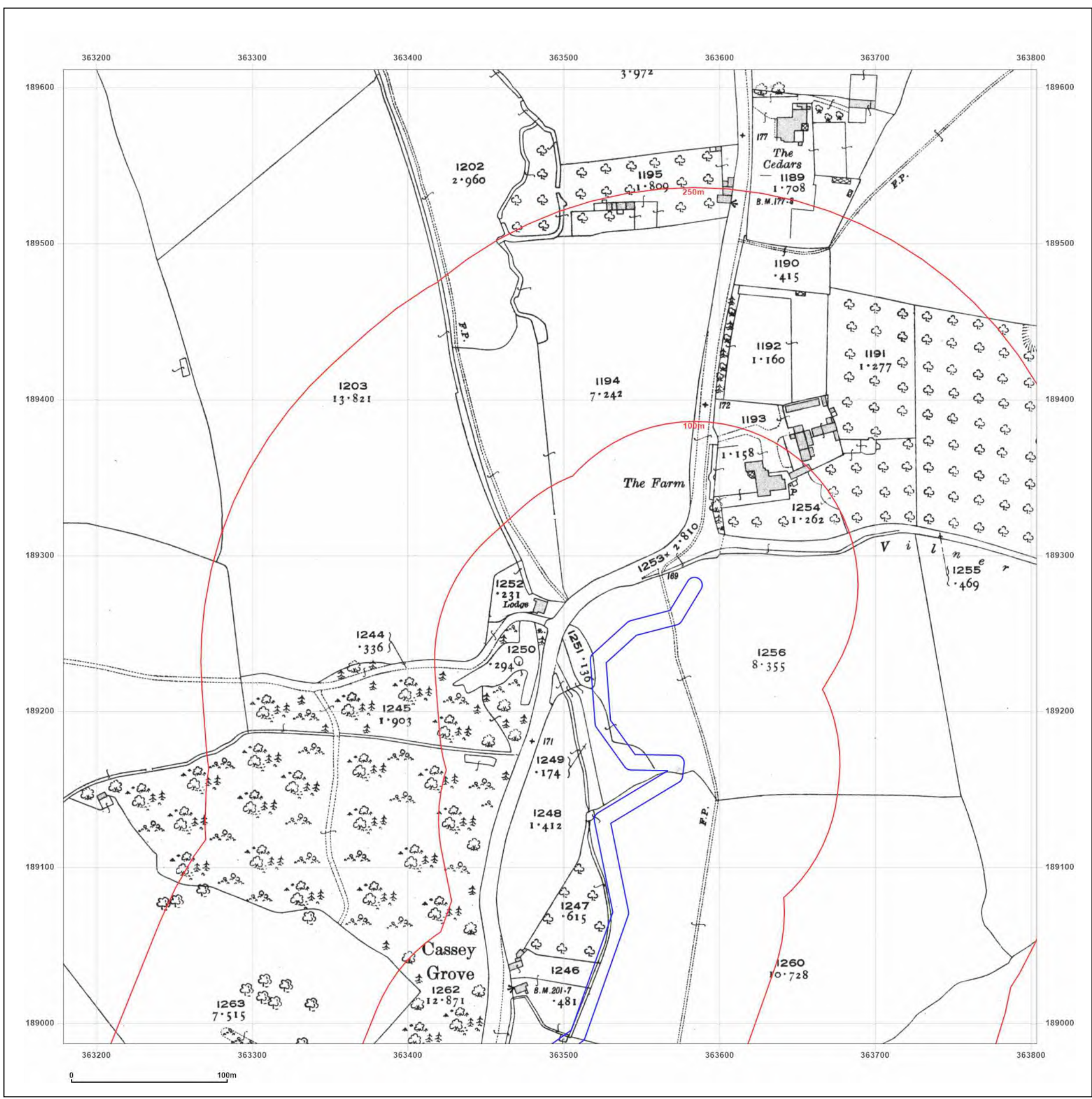


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Alveston Hill

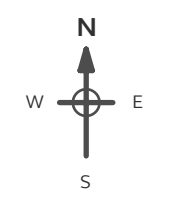
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Grid Ref: 363491, 189299

Map Name: National Grid

Map date: 1964-1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
 Revised 1962
 Edition N/A
 Copyright 1964
 Levelled 1950



Surveyed 1965
 Revised 1965
 Edition N/A
 Copyright 1966
 Levelled 1957

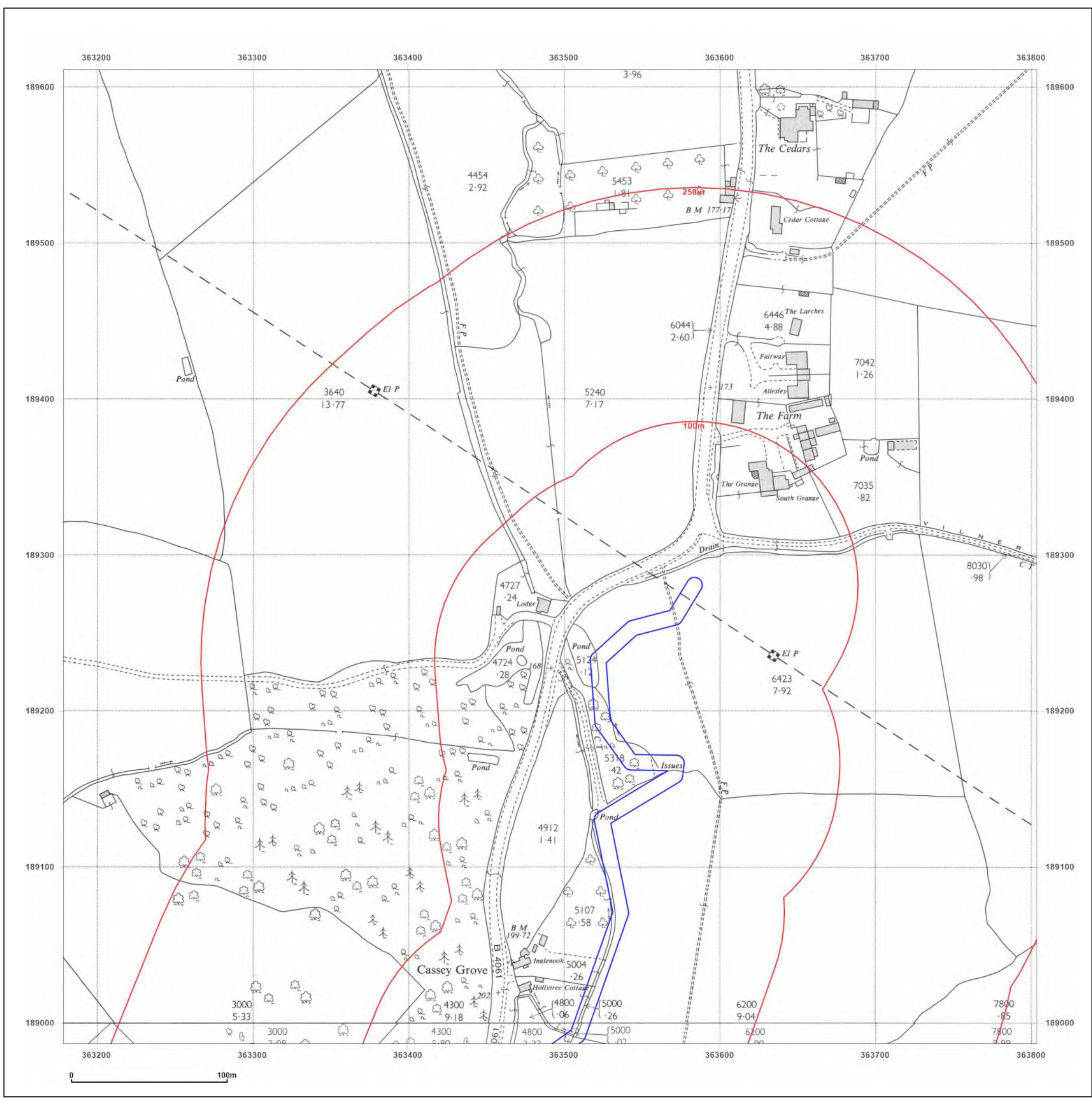


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Site Details:

Alveston Hill

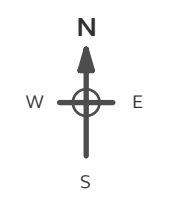
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Report Ref: GSIP-2023-13374-12931_LS_1_2
Grid Ref: 363491, 189299

Map Name: National Grid

Map date: 1964-1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised 1962
 Edition N/A
 Copyright 1964
 Levelled 1950

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

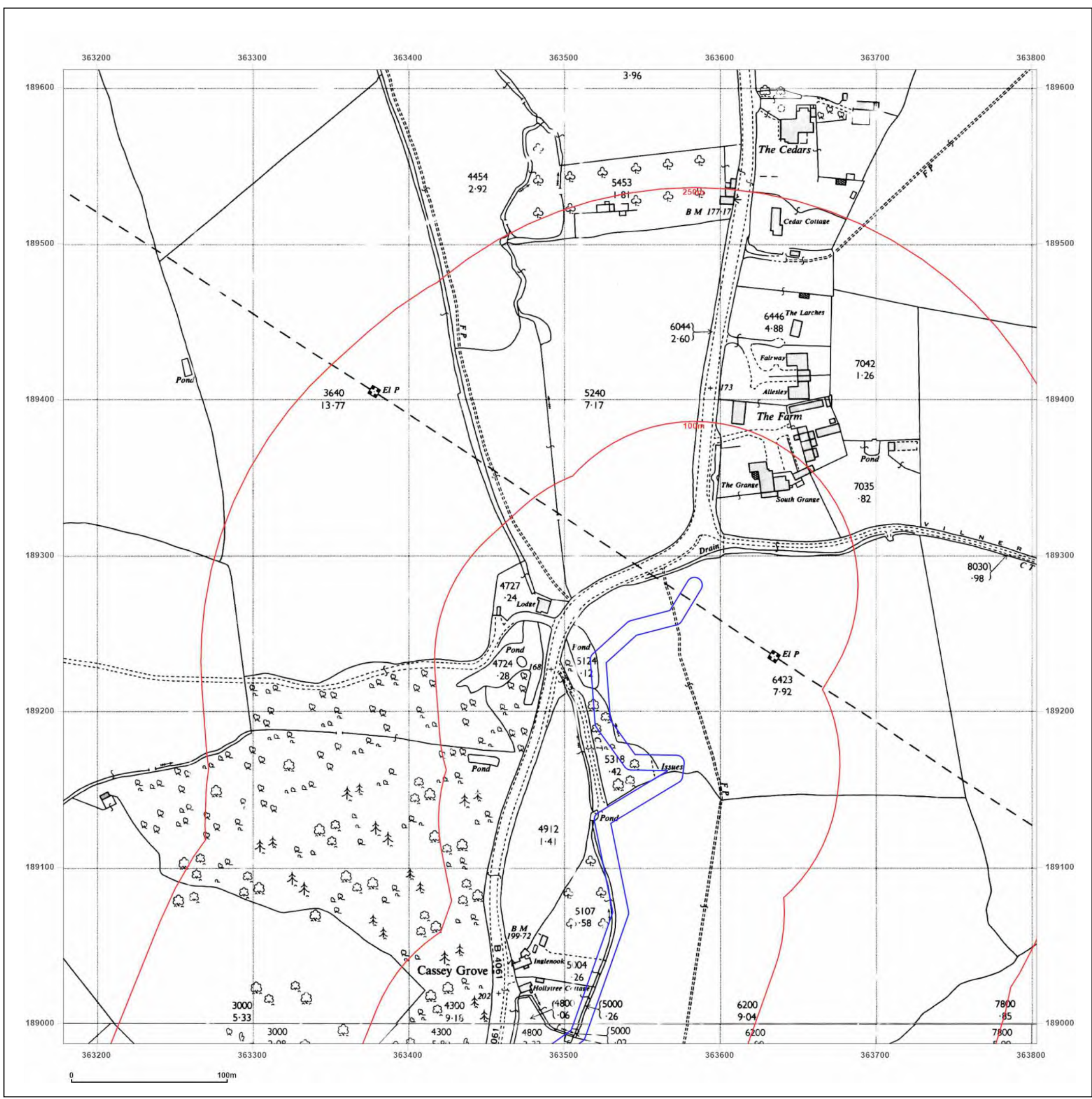


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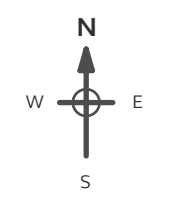
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Report Ref: GSIP-2023-13374-12931_LS_1_2
Grid Ref: 363491, 189299

Map Name: National Grid

Map date: 1976-1977

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1975
 Revised 1975
 Edition N/A
 Copyright 1976
 Levelled 1970

Surveyed 1975
 Revised 1975
 Edition N/A
 Copyright 1977
 Levelled 1969



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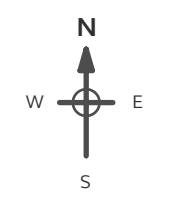
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Report Ref: GSIP-2023-13374-12931_LS_1_2
Grid Ref: 363491, 189299

Map Name: National Grid

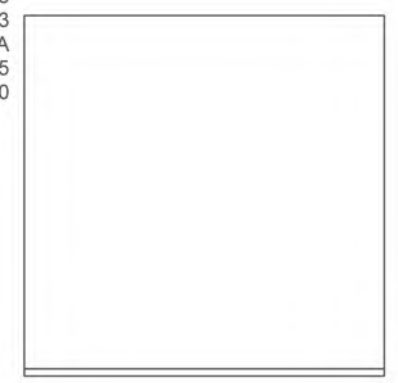
Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1983
 Revised 1983
 Edition N/A
 Copyright 1985
 Levelled 1970

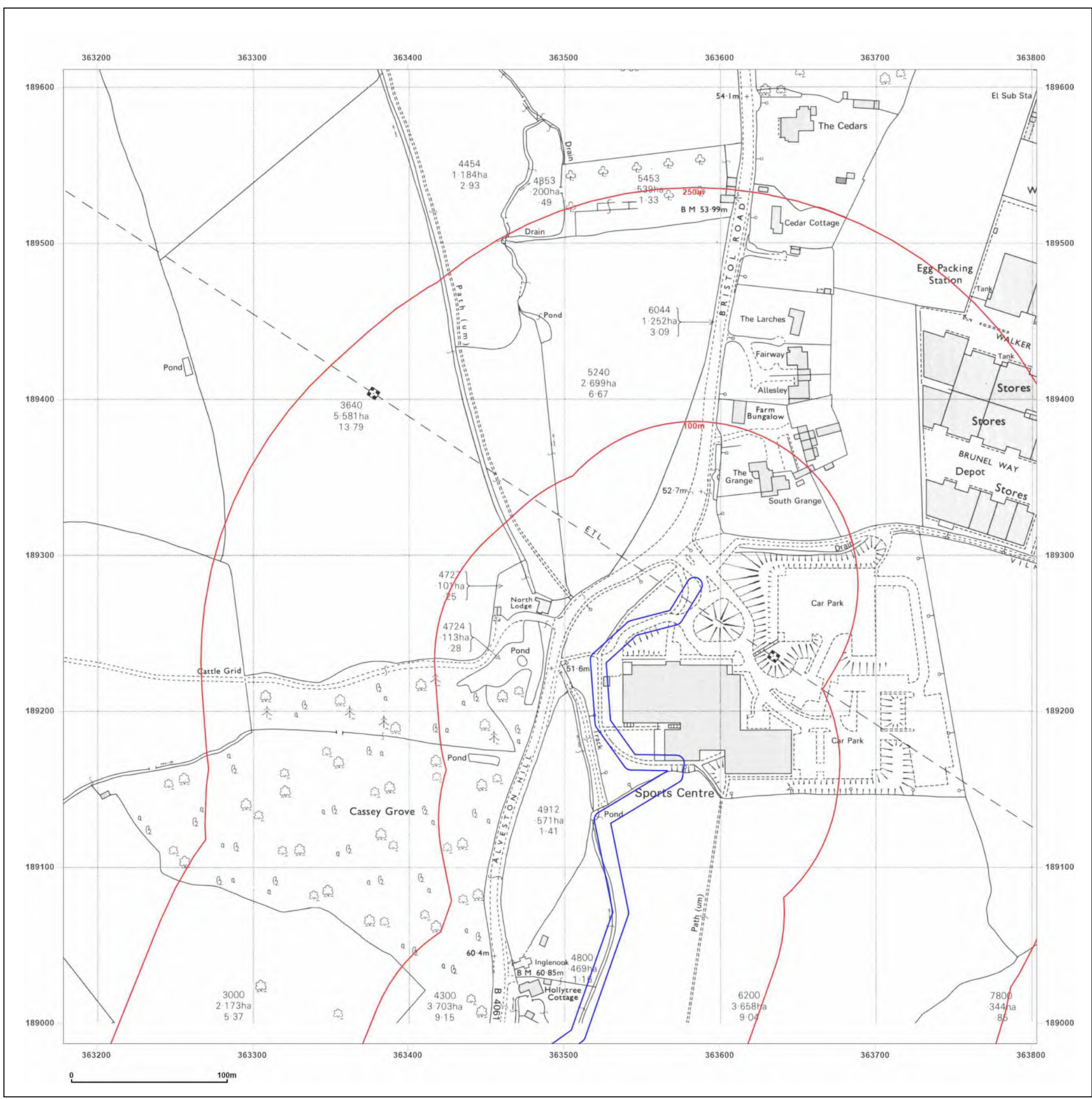


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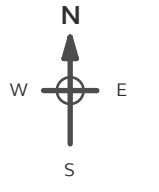
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Site Details:
Alveston Hill

Client Ref: Alveston Hill
Report Ref: GSIP-2023-13374-12931_LS_1_2
Grid Ref: 363491, 189299

Map Name: National Grid
Map date: 1985
Scale: 1:2,500
Printed at: 1:2,500



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

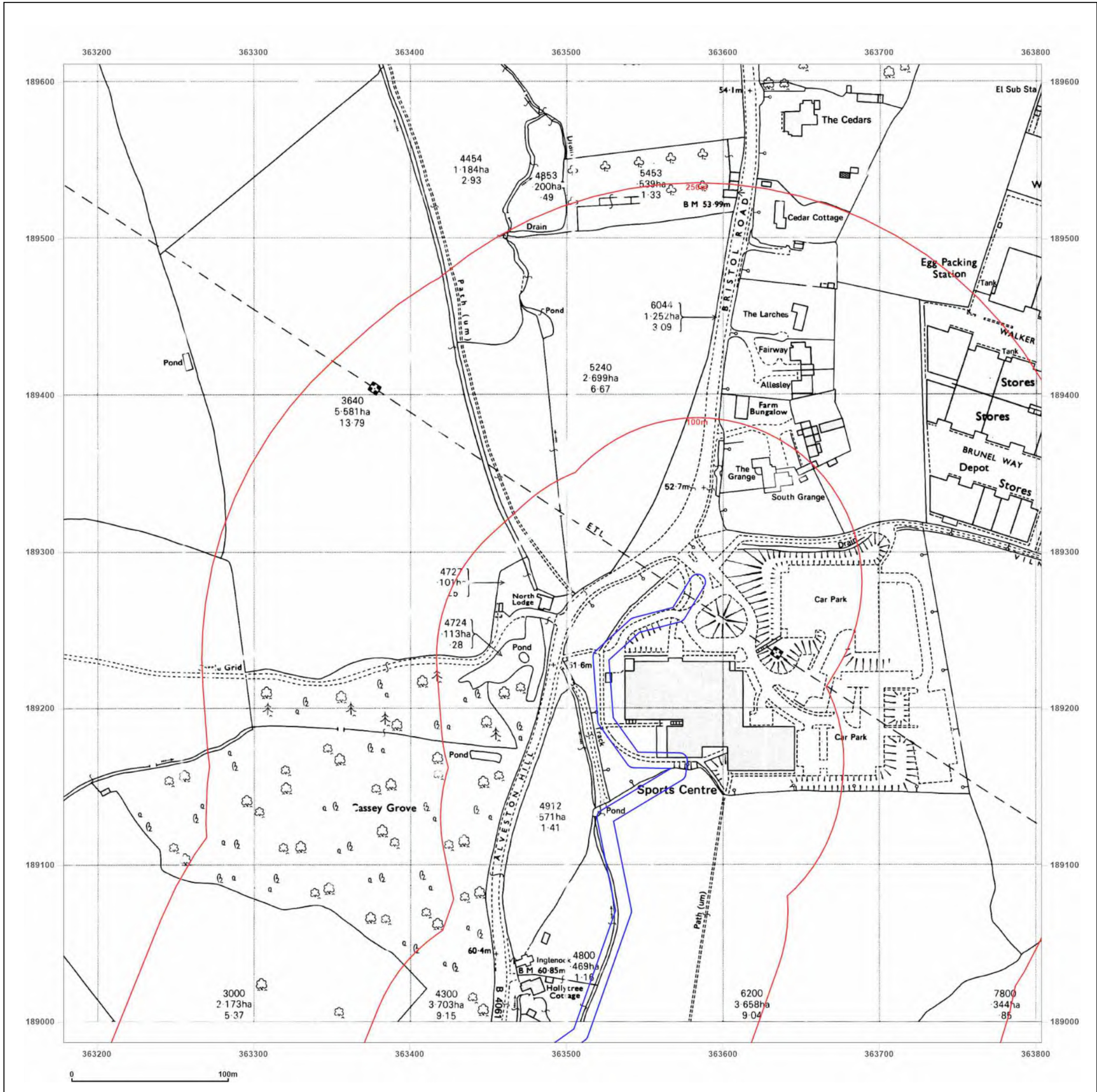
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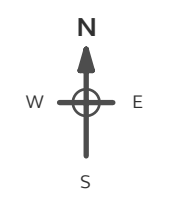
Client Ref: Alveston Hill
Report Ref: GSIP-2023-13374-12931_LS_1_2
Grid Ref: 363491, 189299

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1992
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1992
 Levelled N/A



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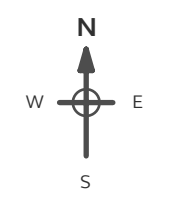
Client Ref: Alveston Hill
Report Ref: GSIP-2023-13374-12931_LS_1_2
Grid Ref: 363491, 189299

Map Name: National Grid

Map date: 1990-1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1970
 Revised 1983
 Edition N/A
 Copyright 1990
 Levelled 1970

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

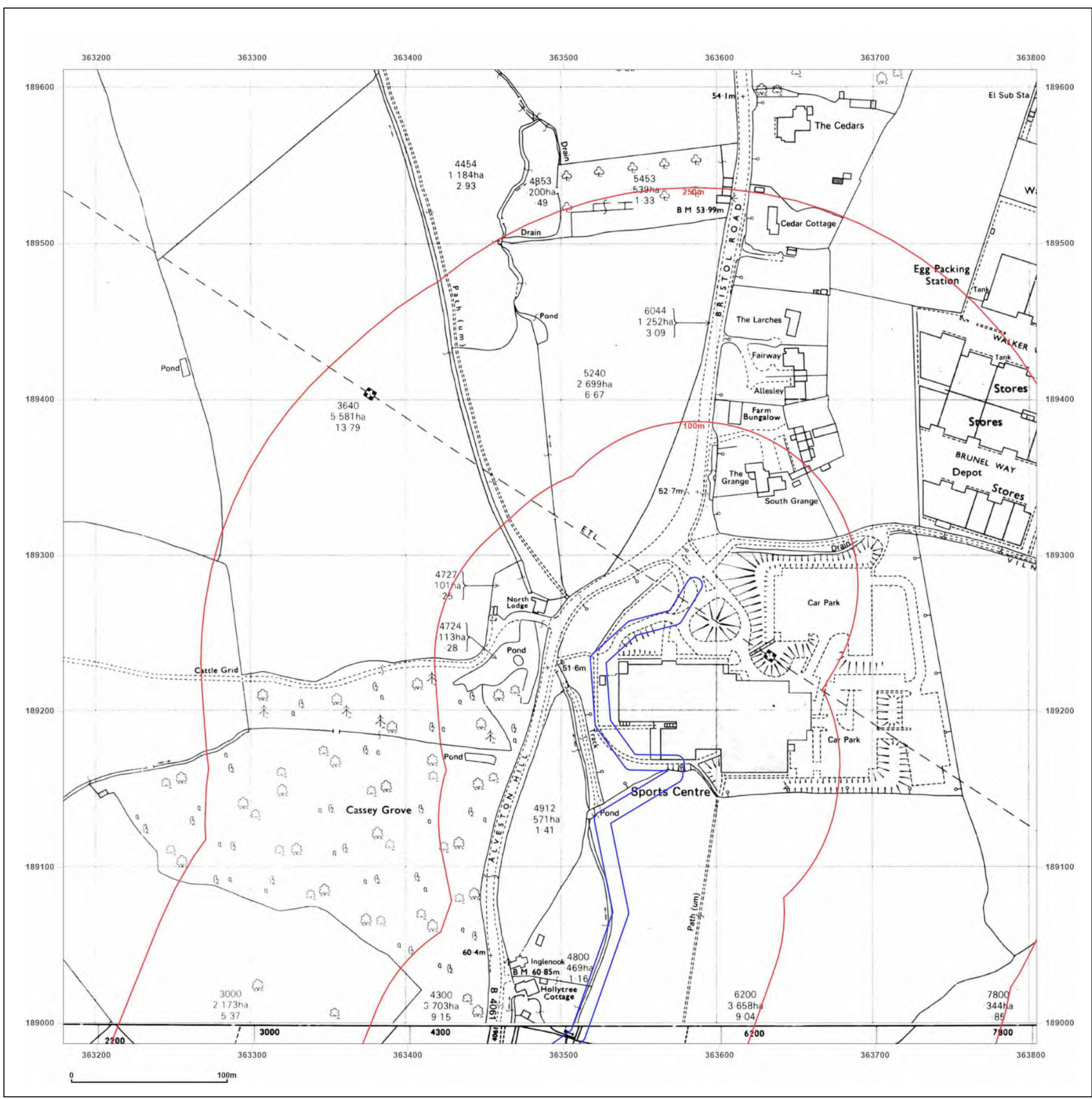


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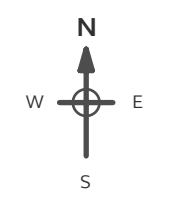
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Grid Ref: 363491, 189299

Map Name: National Grid

Map date: 1990-1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1990
 Revised 1990
 Edition N/A
 Copyright 1990
 Levelled N/A

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

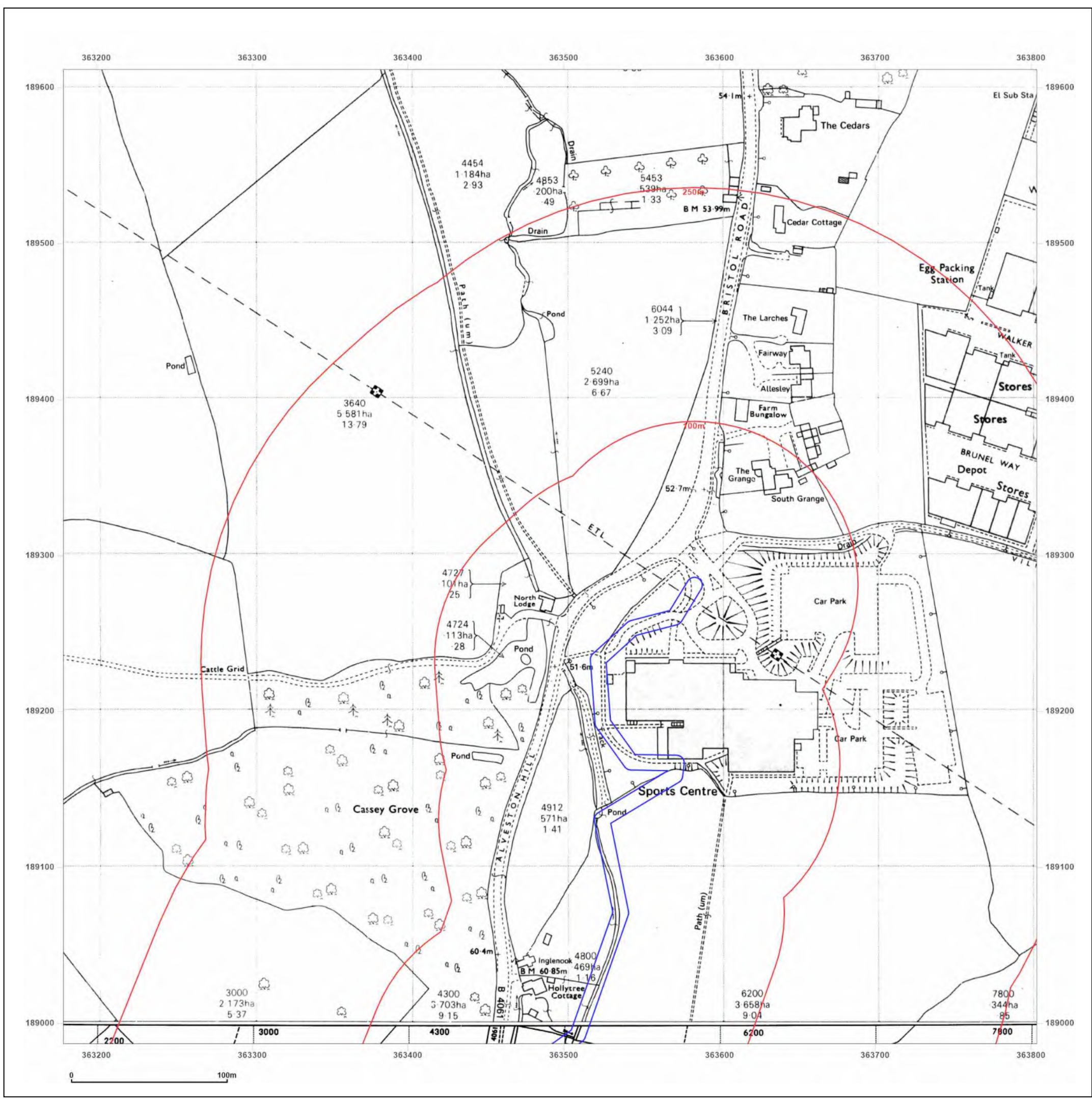


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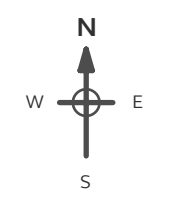
Client Ref: Alveston Hill
Report Ref: GSIP-2023-13374-12931_LS_1_2
Grid Ref: 363491, 189299

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright 1994
 Levelled N/A

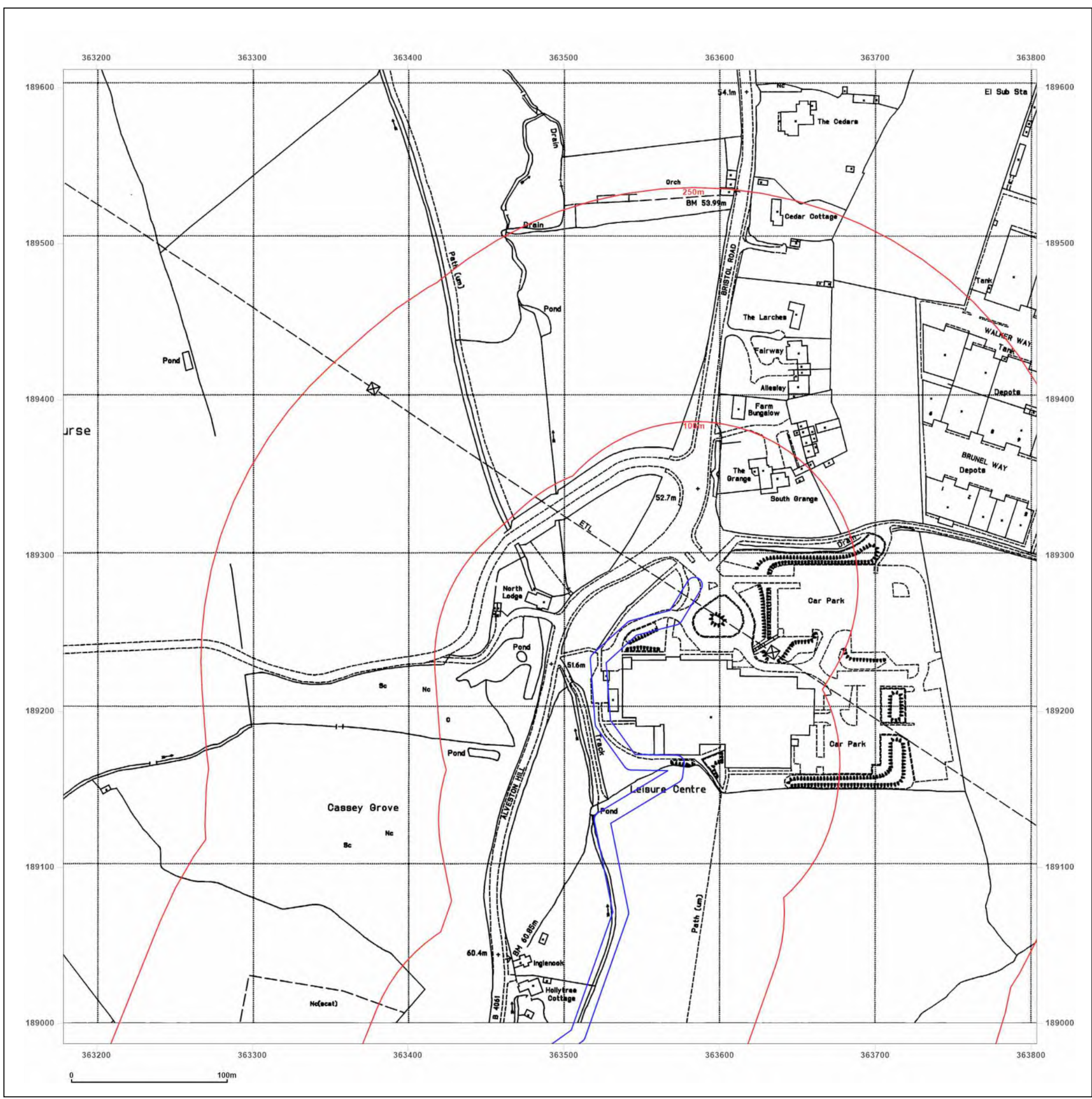


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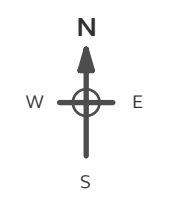
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Grid Ref: 363491, 189299

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1994
 Levelled N/A

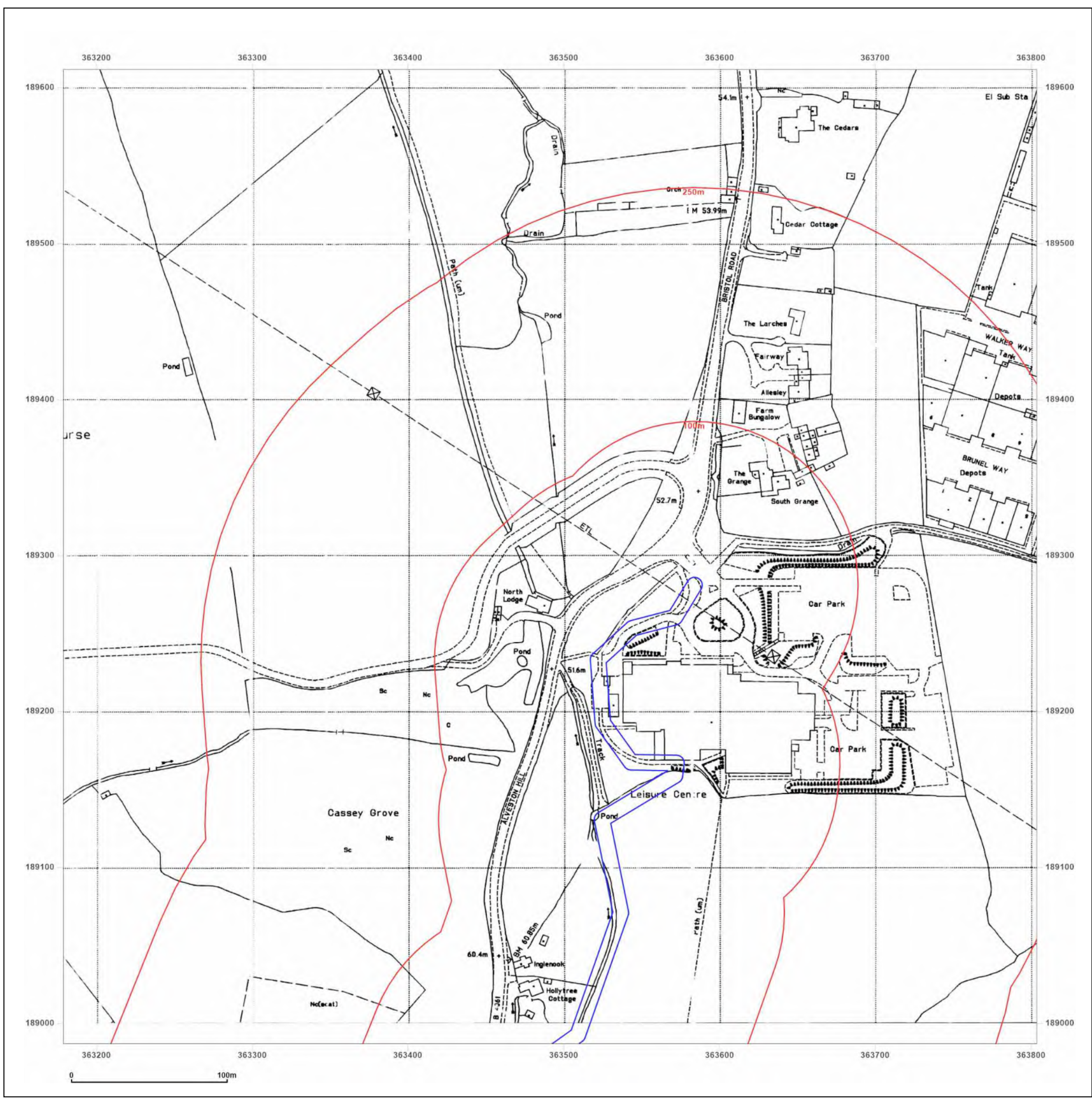


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Site Details:

Alveston Hill

Client Ref: Alveston Hill
Report Ref: GSIP-2023-13374-12931
Grid Ref: 363491, 188987

Map Name: County Series

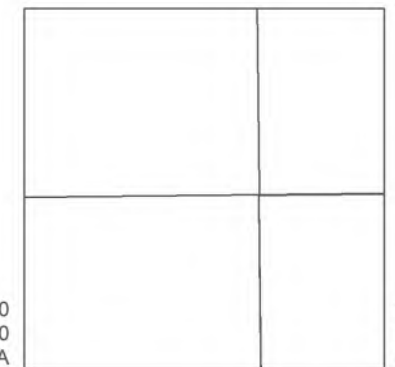
Map date: 1879-1880

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1880
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1880
 Revised 1880
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1879
 Revised 1879
 Edition N/A
 Copyright N/A
 Levelled N/A

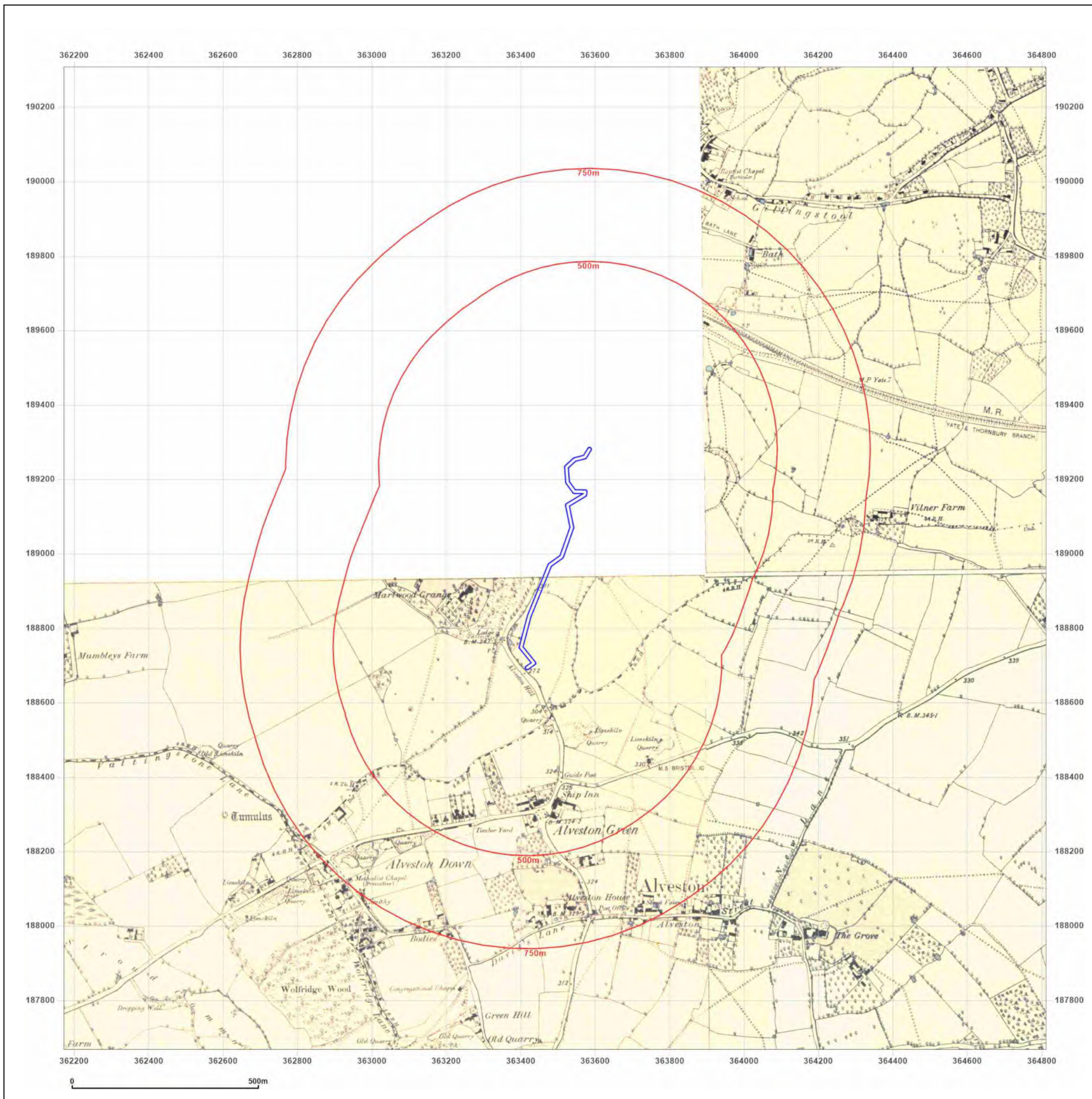


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Site Details:

Alveston Hill

Client Ref: Alveston Hill
Report Ref: GSIP-2023-13374-12931
Grid Ref: 363491, 188987

Map Name: County Series

Map date: 1880

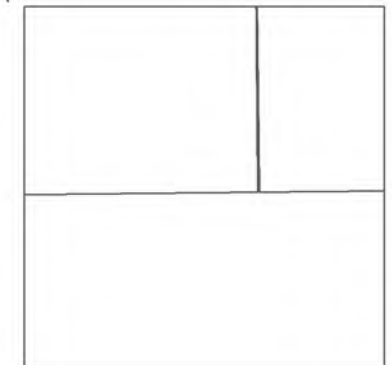
Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1880
 Revised 1880
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1880
 Revised 1880
 Edition N/A
 Copyright N/A
 Levelled N/A

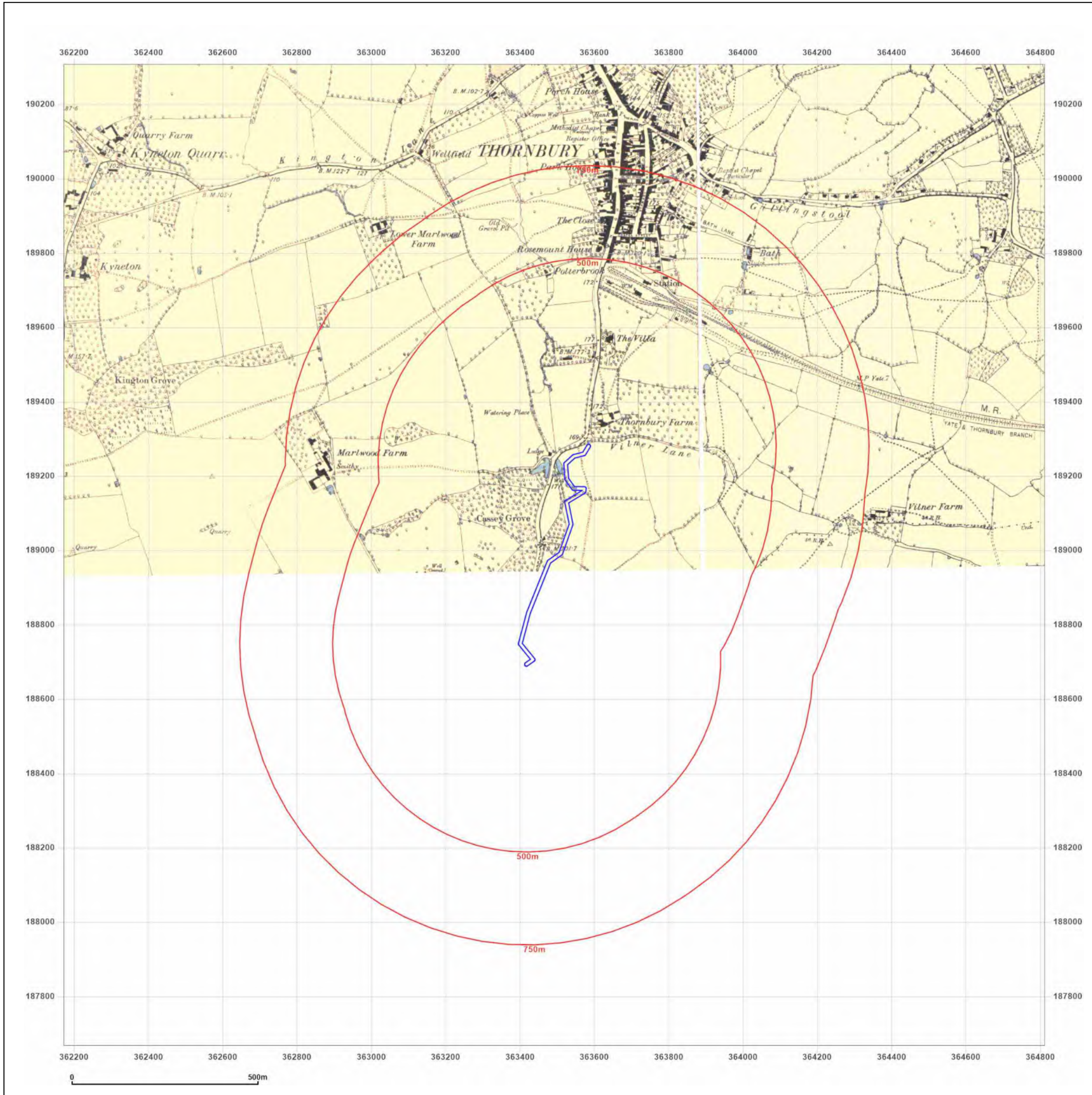


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Site Details:

Alveston Hill

Client Ref: Alveston Hill
Report Ref: GSIP-2023-13374-12931
Grid Ref: 363491, 188987

Map Name: County Series

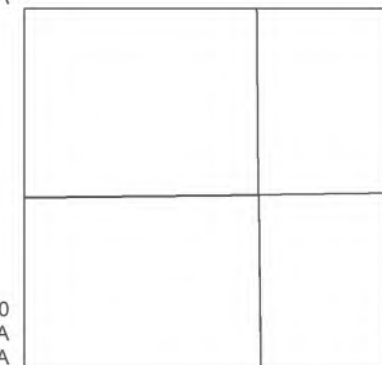
Map date: 1886

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1880
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1880
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1879
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

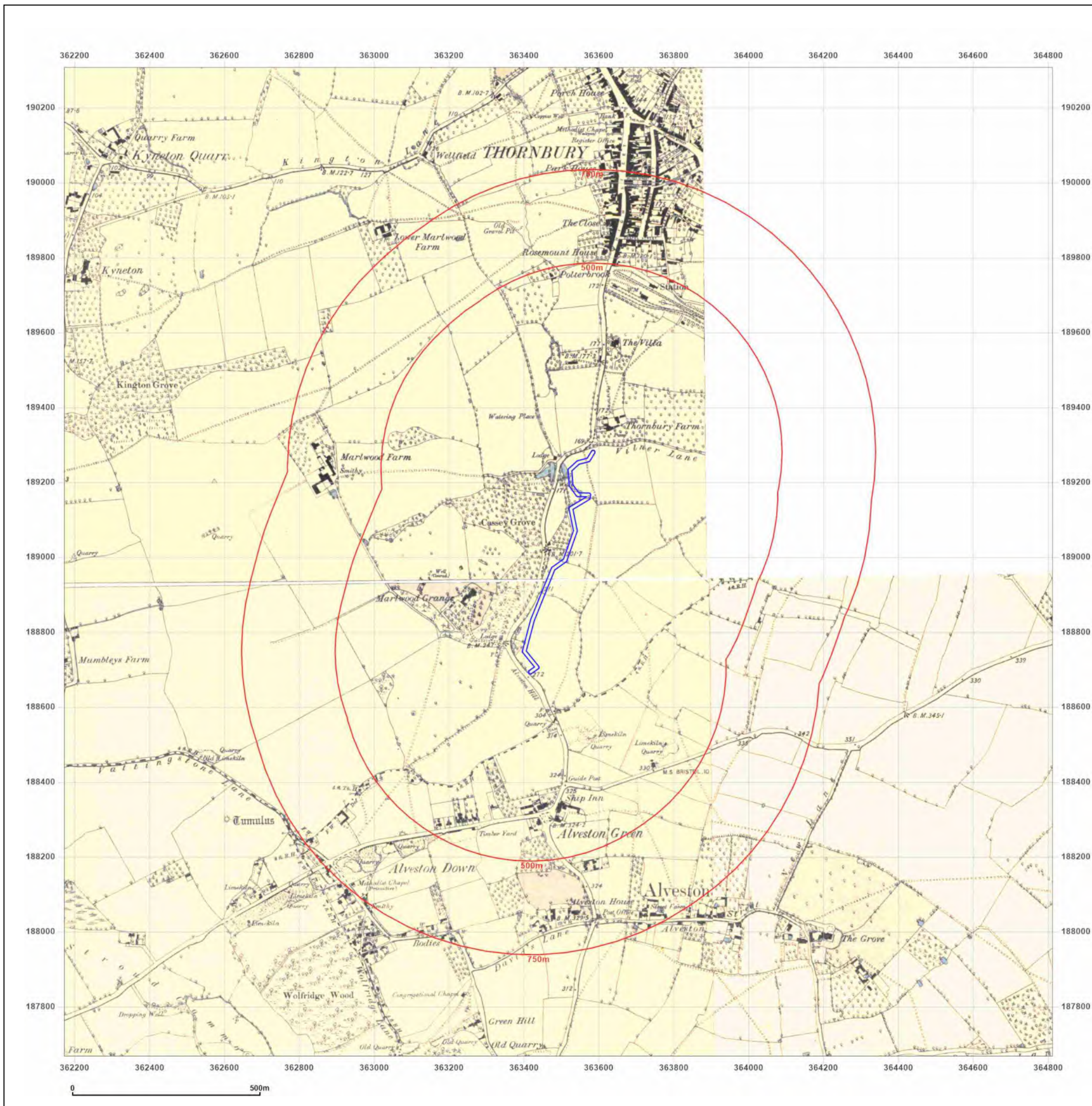


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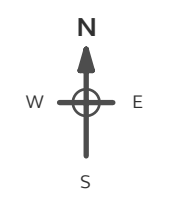
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Report Ref: GSIP-2023-13374-12931
Grid Ref: 363491, 188987

Map Name: County Series

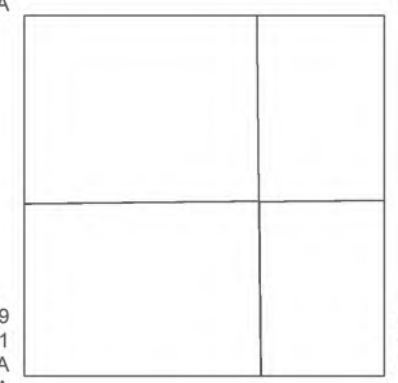
Map date: 1901

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
 Revised 1901
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1879
 Revised 1901
 Edition N/A
 Copyright N/A
 Levelled N/A

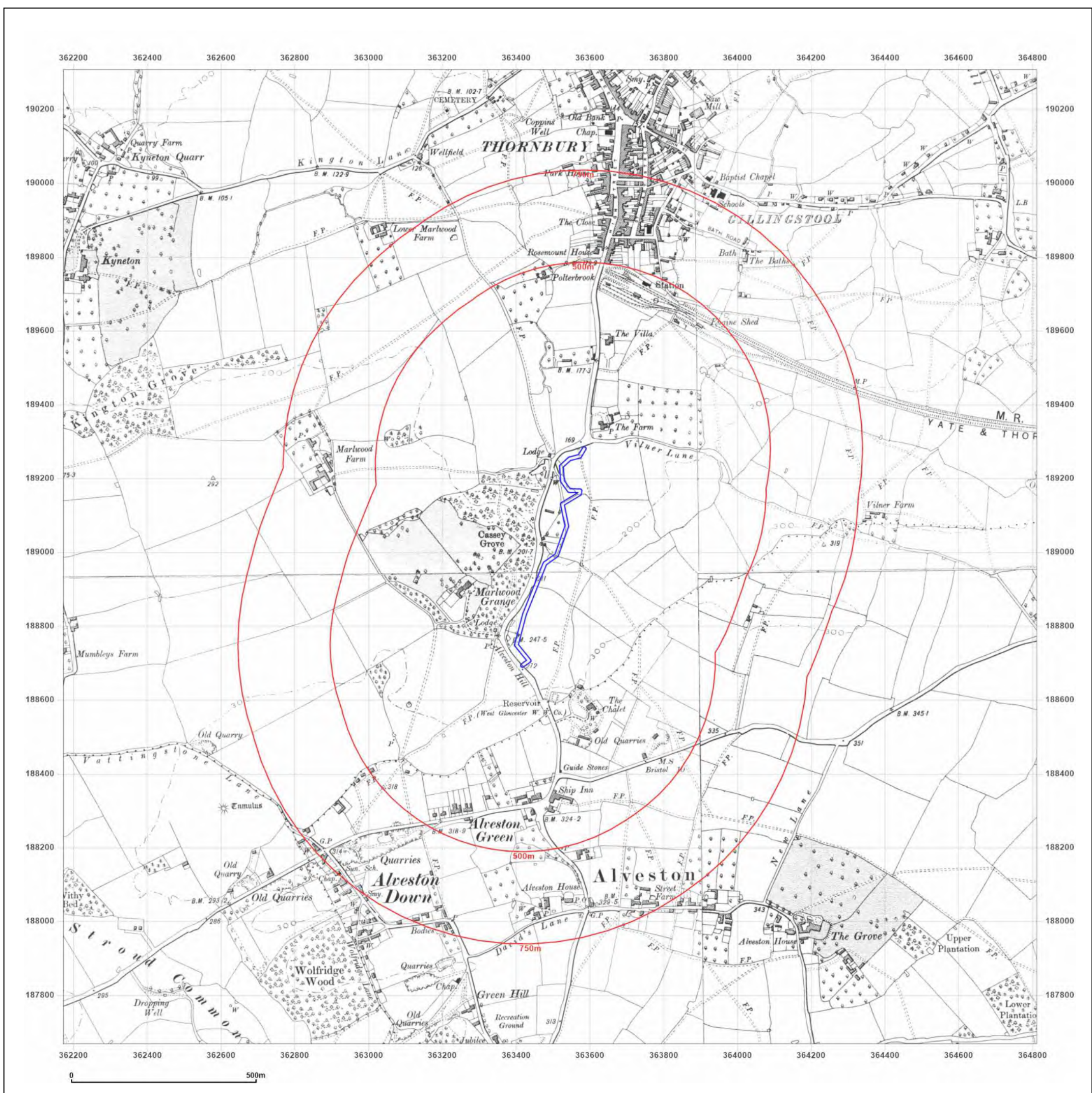


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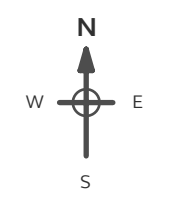
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Report Ref: GSIP-2023-13374-12931
Grid Ref: 363491, 188987

Map Name: County Series

Map date: 1919-1923

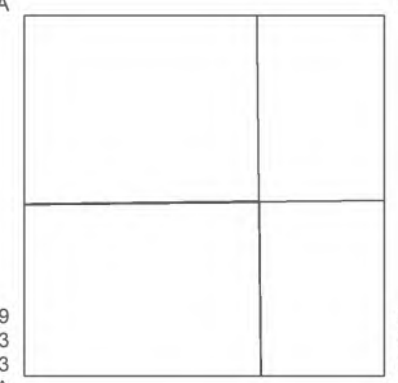
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Printed at: 1:10,560



Surveyed 1879
 Revised 1919
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1878
 Revised 1923
 Edition 1923
 Copyright N/A
 Levelled N/A



Surveyed 1879
 Revised 1923
 Edition 1923
 Copyright N/A
 Levelled N/A

Surveyed 1879
 Revised 1923
 Edition N/A
 Copyright N/A
 Levelled N/A

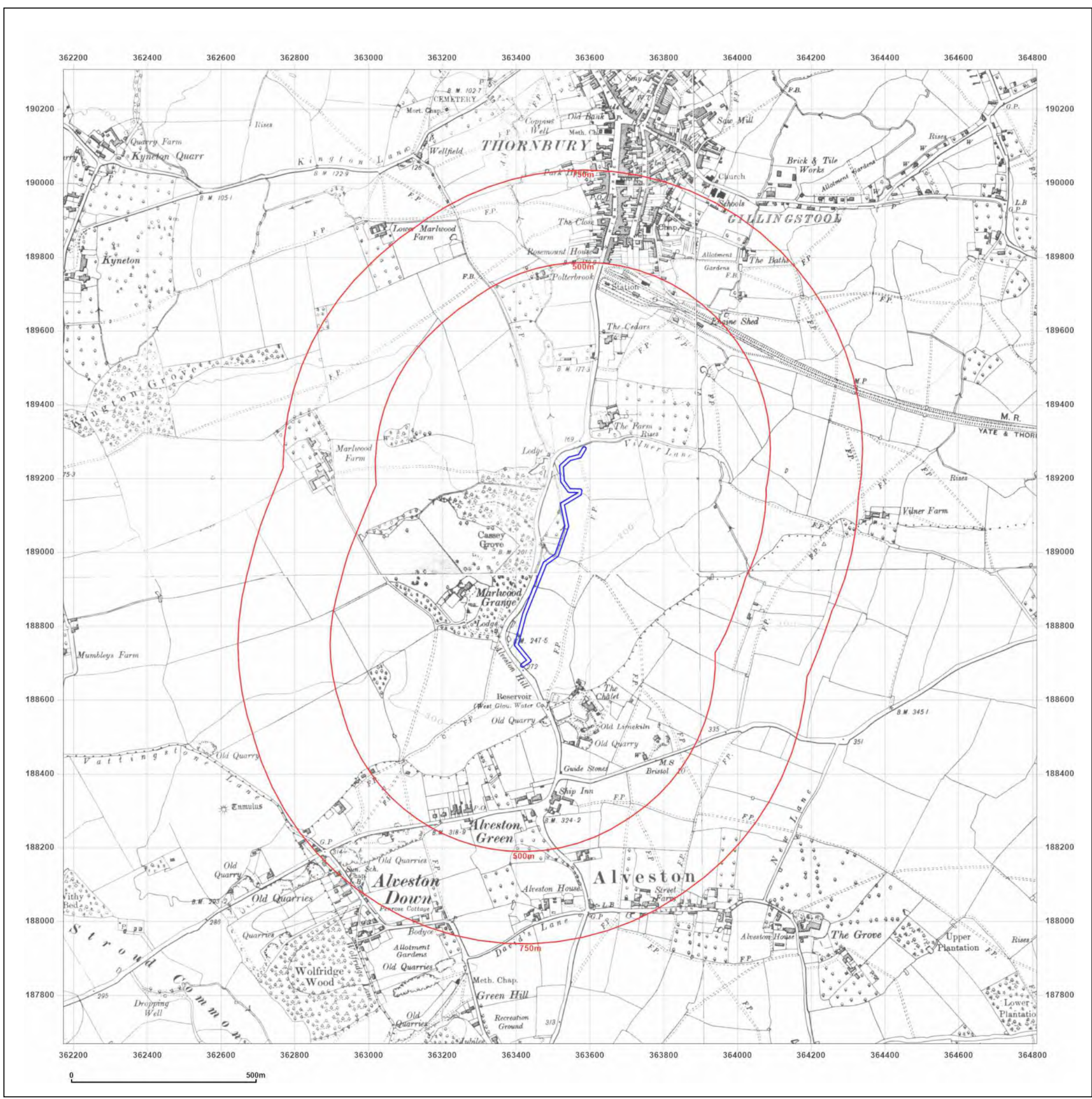


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Report Ref: GSIP-2023-13374-12931
Grid Ref: 363491, 188987

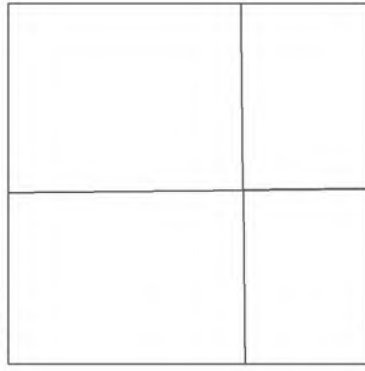
Map Name: County Series

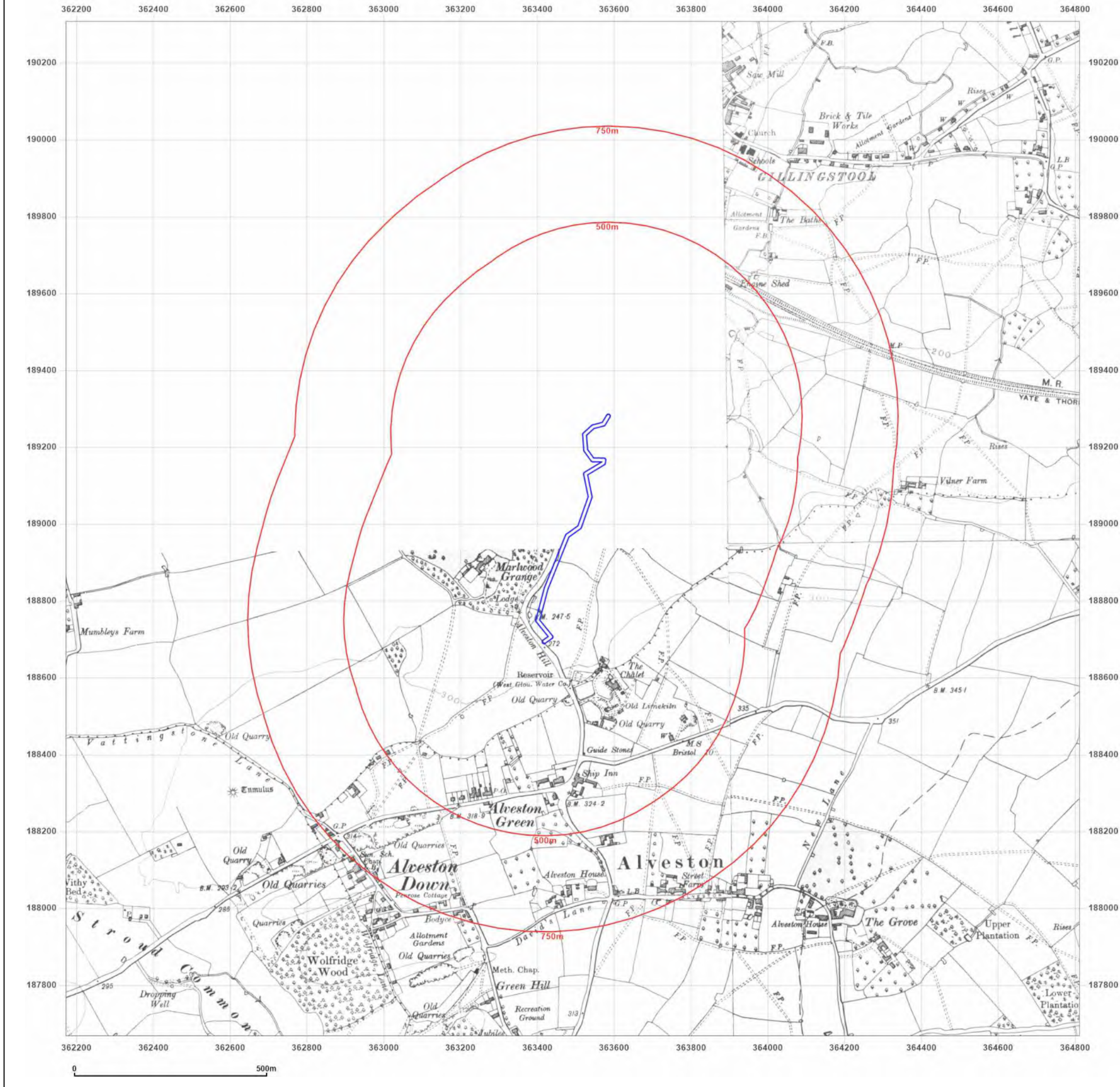
Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



<p>Surveyed 1879 Revised 1923 Edition N/A Copyright N/A Levelled N/A</p>		<p>Surveyed 1878 Revised 1923 Edition N/A Copyright N/A Levelled N/A</p>
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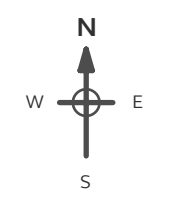
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Grid Ref: 363491, 188987

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
 Revised 1923
 Edition N/A
 Copyright N/A
 Levelled N/A

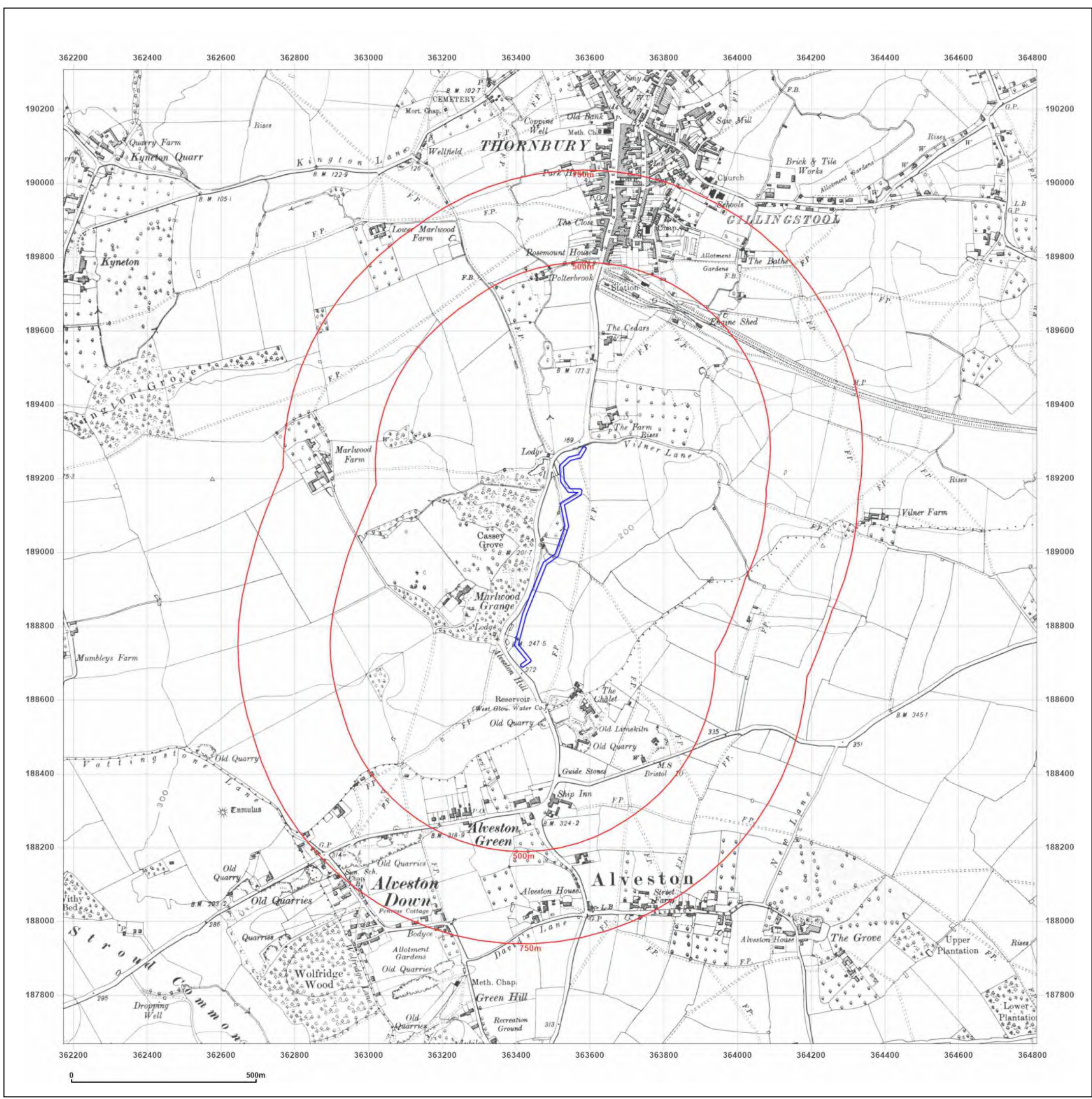


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Client Ref: Alveston Hill
Report Ref: GSIP-2023-13374-12931
Grid Ref: 363491, 188987

Map Name: Provisional

Map date: 1954

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1949
 Revised 1949
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1949
 Revised 1954
 Edition N/A
 Copyright N/A
 Levelled N/A

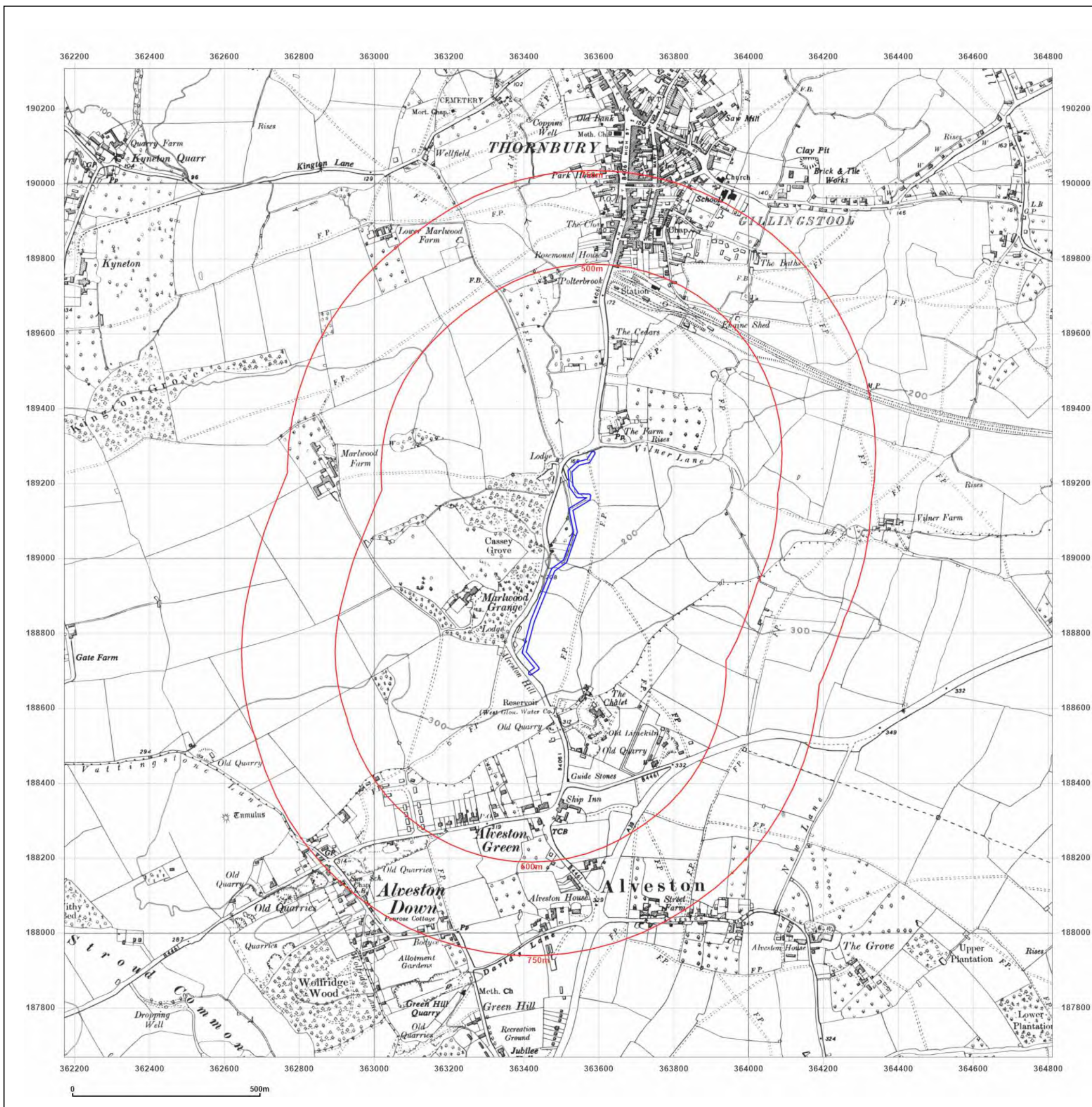


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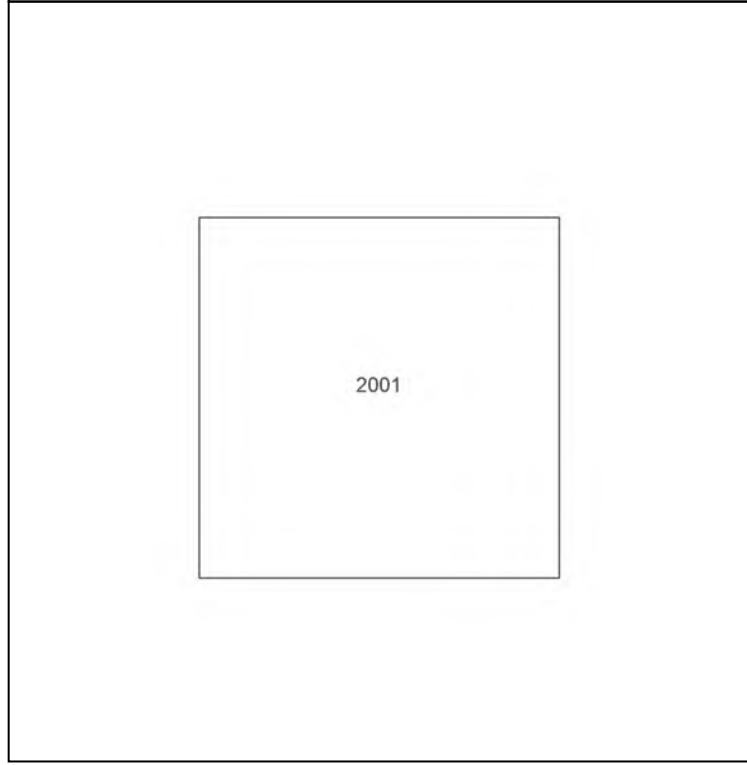
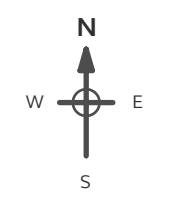
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Grid Ref: 363491, 188987

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

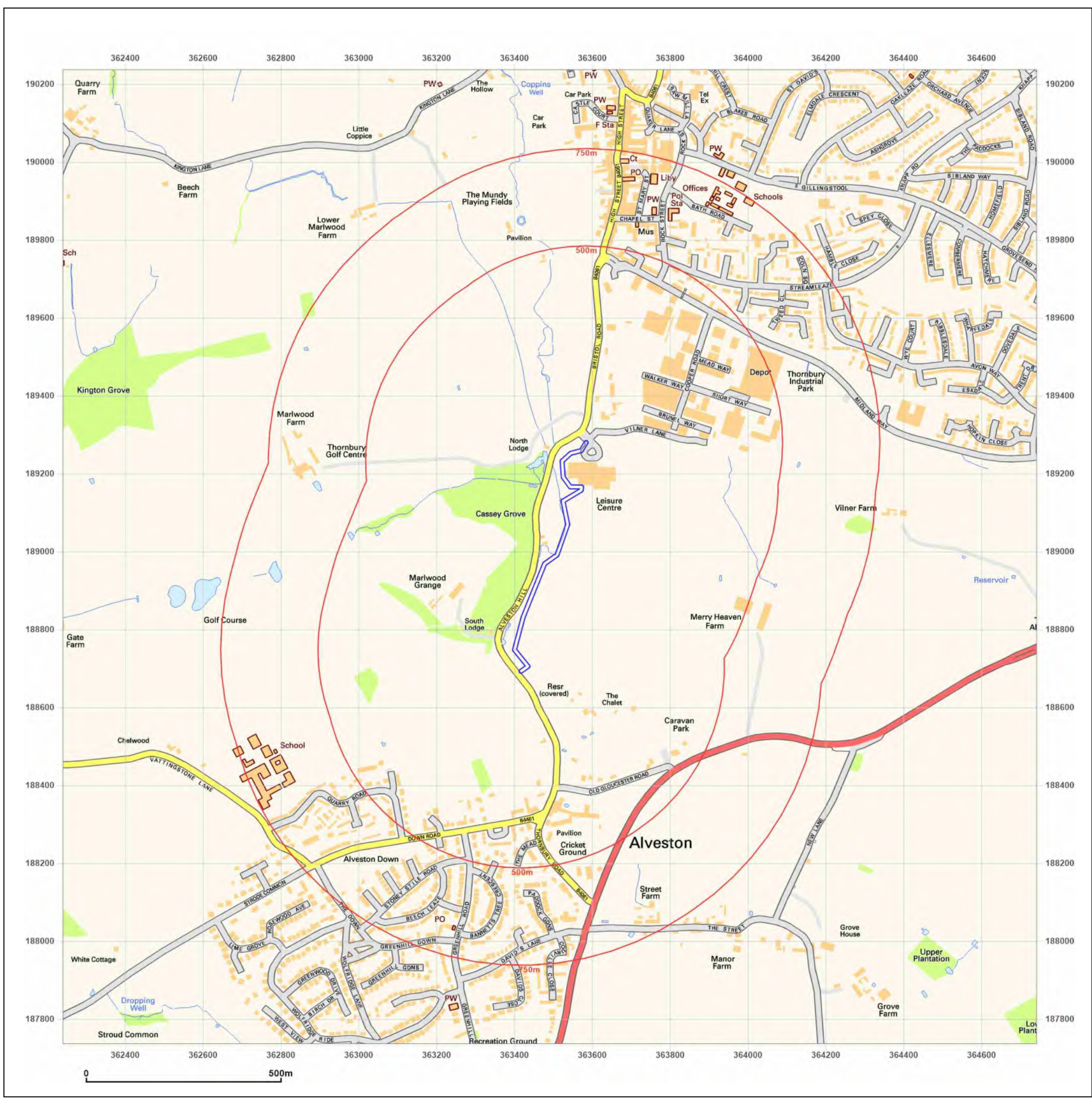


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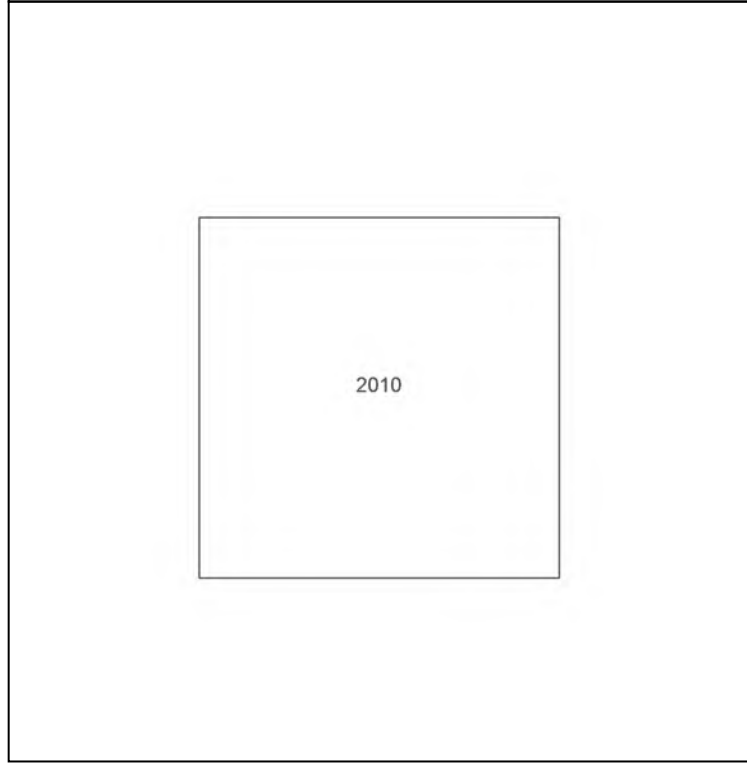
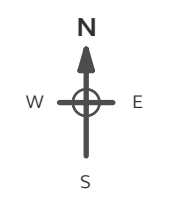
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Report Ref: GSIP-2023-13374-12931
Grid Ref: 363491, 188987

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

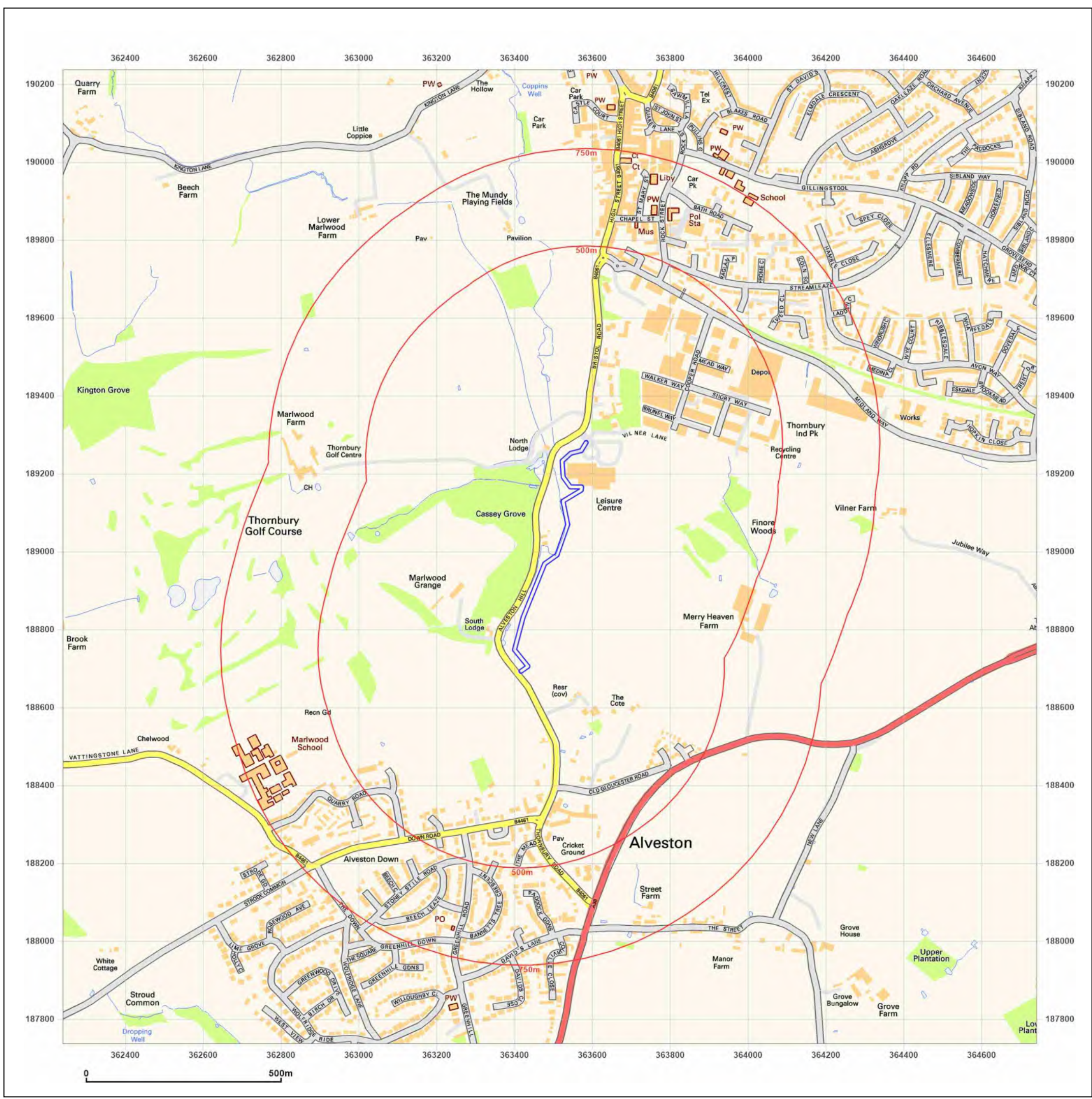


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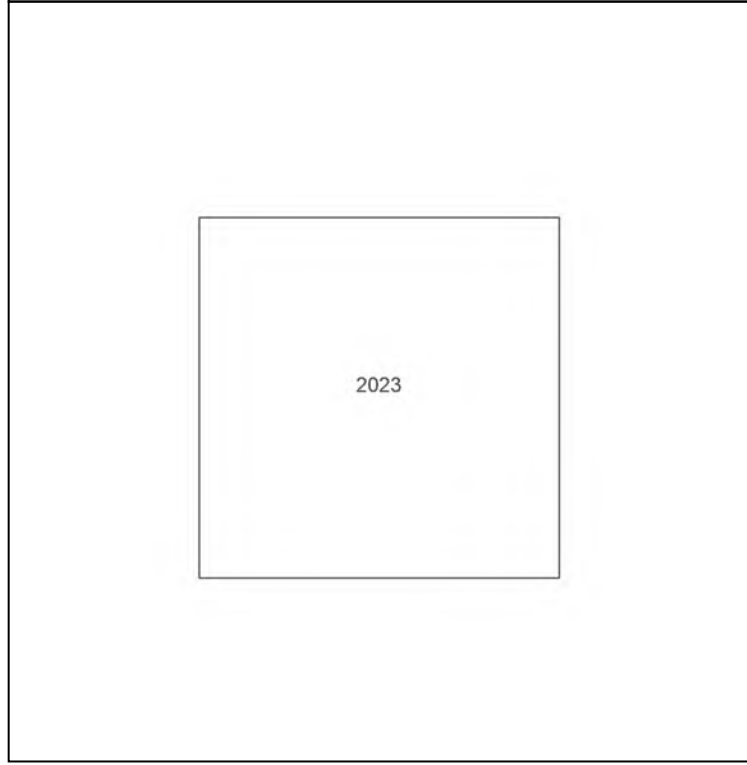
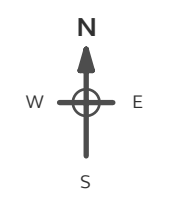
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Report Ref: GSIP-2023-13374-12931
Grid Ref: 363491, 188987

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000

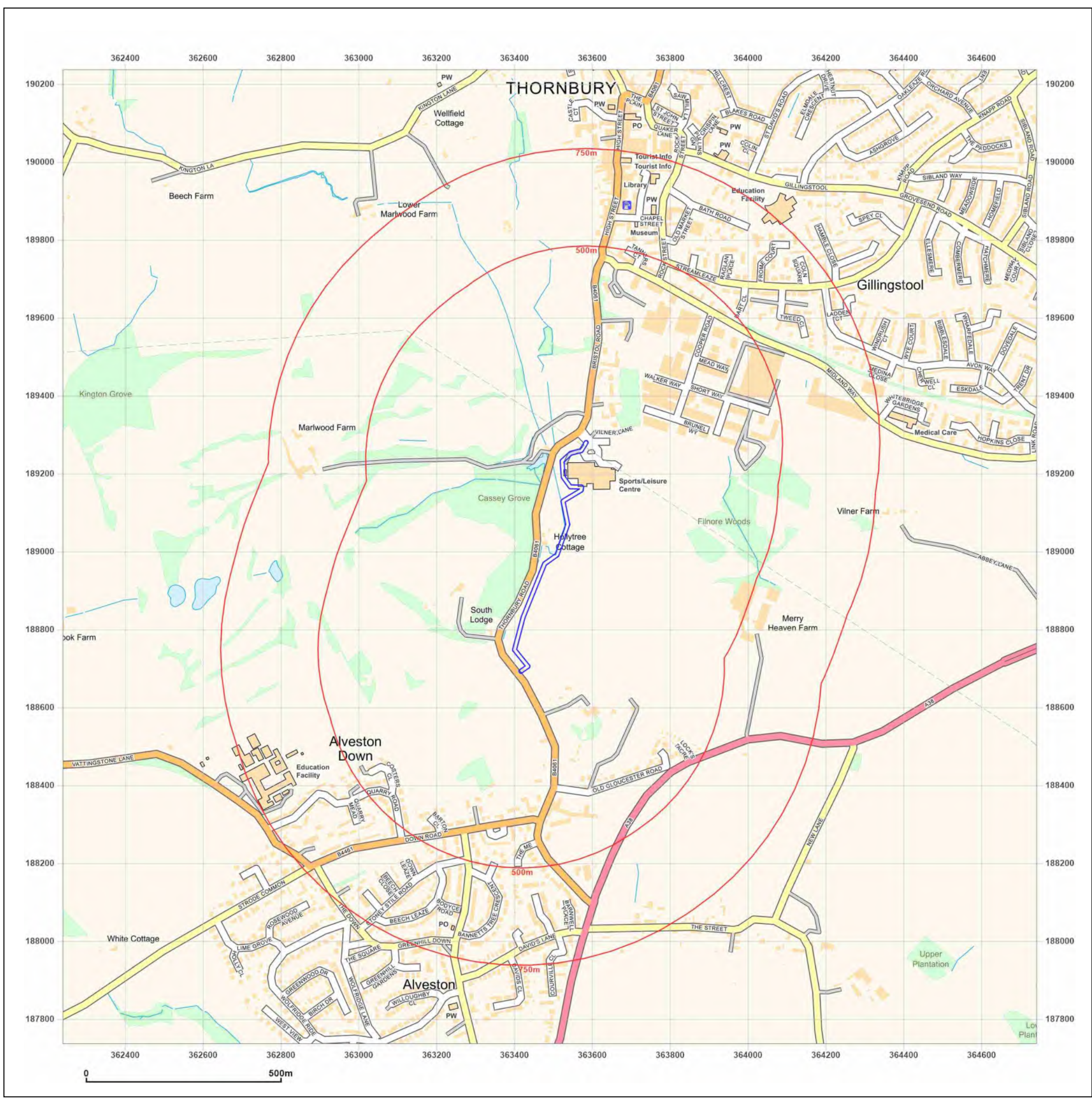


Produced by
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 W: www.groundsure.com

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Production date: 16 February 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf




Appendix D. UXO Information

From: [Nathan Towers](#)
Sent: 15 March 2023 16:45
To: [Trunks, Megan](#); [Uxo](#)
Cc: [Research](#)
Subject: RE: PDSA request - Alveston Hill

Hi Megan

Please find our PDSA below. Any questions, please don't hesitate to contact us.

	
Pre-Desk Study Assessment	
Site:	Alveston Hill, Thornbury, Gloucestershire
Client:	Atkins
Contact:	Megan Trunks
Date:	15 th March 2023
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	None identified on the Site. Marlwood House, approximately 0.1km west of the Site, was used as a camp to hold German Prisoners of War (PoWs). The PoW camp closed after WWI.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: <ul style="list-style-type: none"> • Transport infrastructure and public utilities. • Industries important to the war effort, including engineering works. • Military camps and training areas.
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: <ul style="list-style-type: none"> • Transport infrastructure and public utilities. • Industries important to the war effort, including engineering works. • Military camps and training areas. • Anti-Aircraft (AA) and anti-invasion defences.
WWII Bombing Decoys (within 5km of Site)	None.
WWII Bombing	During WWII the Site was located in the Rural District (RD) of Thornbury, which

	officially recorded 642No. High Explosive (HE) bombs with a bombing density of 10.5 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.	

Many thanks

Nath

Nathan Towers
Risk Assessor
Zetica Limited

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ZETICA BROCHURE



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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 363506,188936



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'.

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