

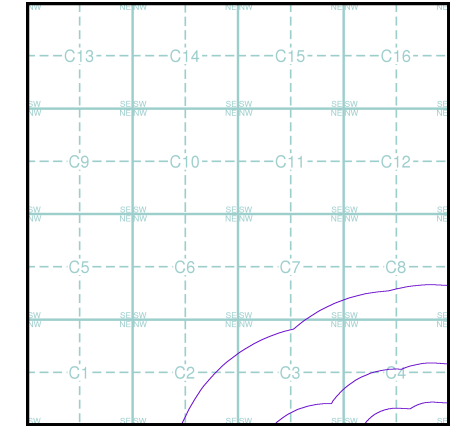
Ordnance Survey Plan
Published 1955
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SP52NW	SP52NE
1955	1955
1:10,560	1:10,560
SP52SW	SP52SE
1955	1955
1:10,560	1:10,560

Historical Map - Slice C



Order Details

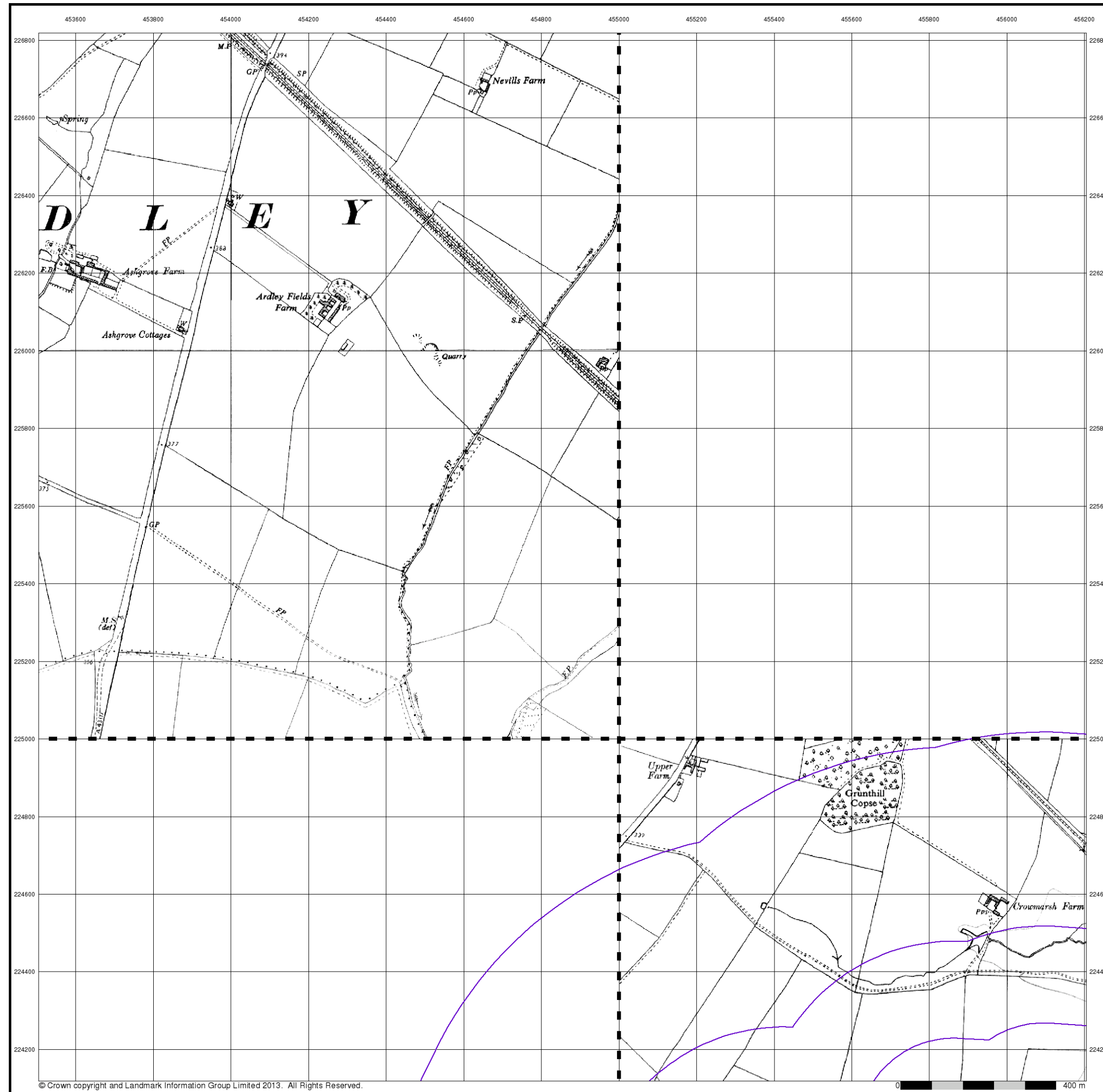
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 Customer Ref: EED14995-100
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 Slice: C
 Site Area (Ha): 90.42
 Search Buffer (m): 1000

Site Details

Himley Village



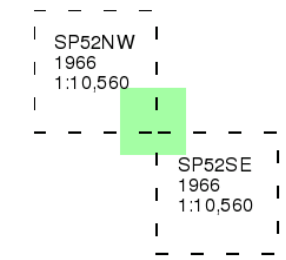
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



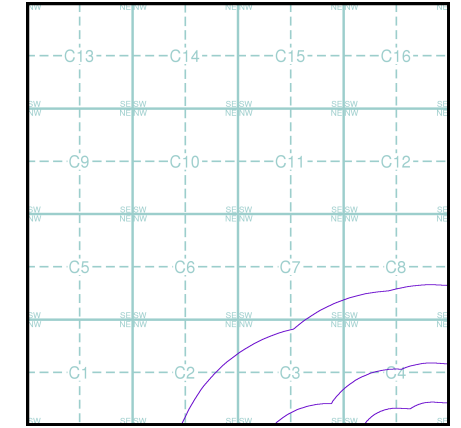
Ordnance Survey Plan
Published 1966
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

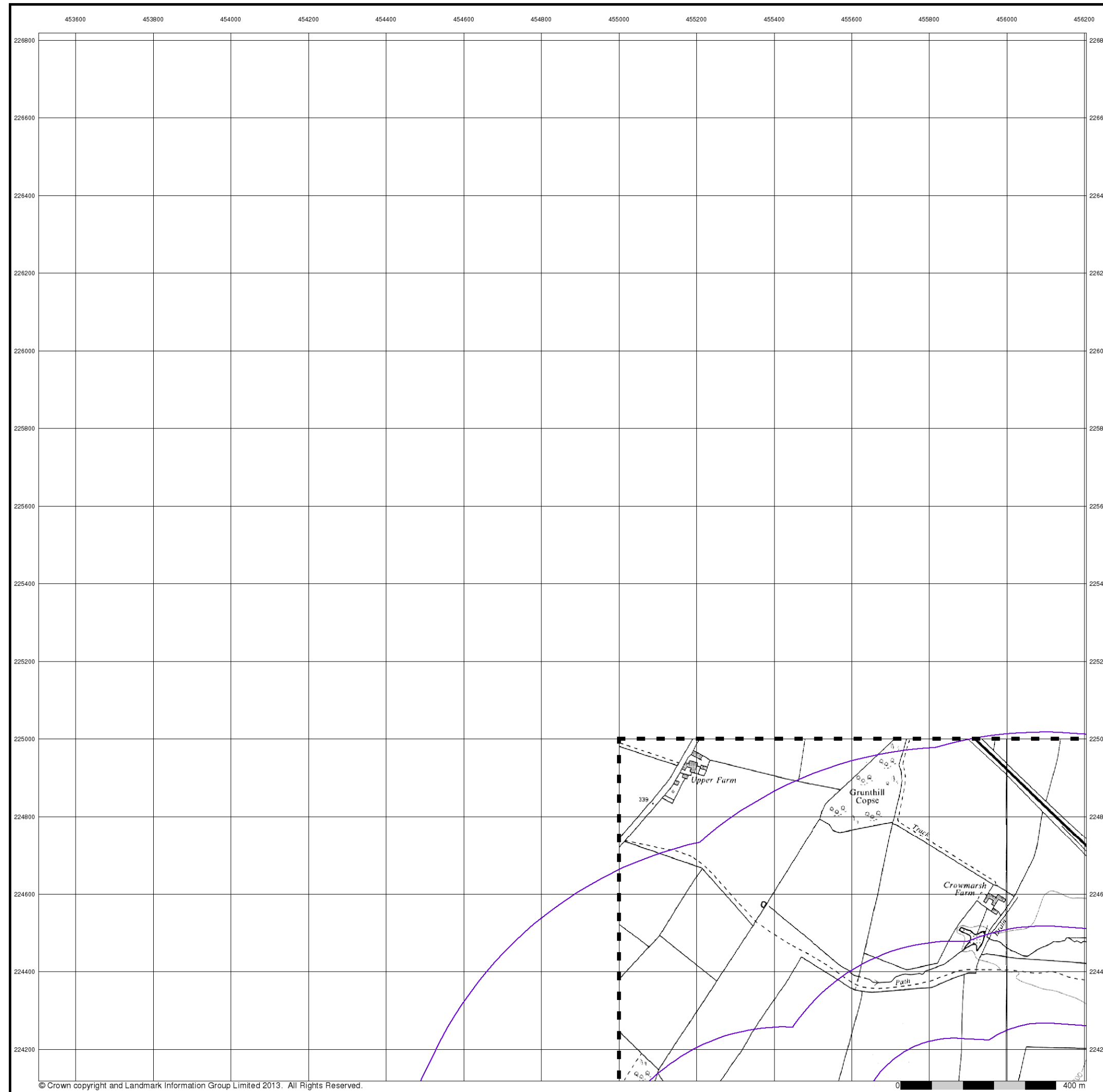
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Site Details

Himley Village



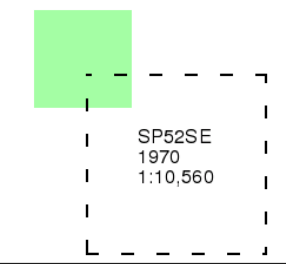
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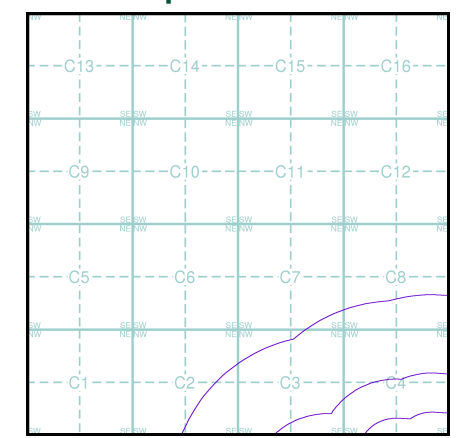
Ordnance Survey Plan
Published 1970
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

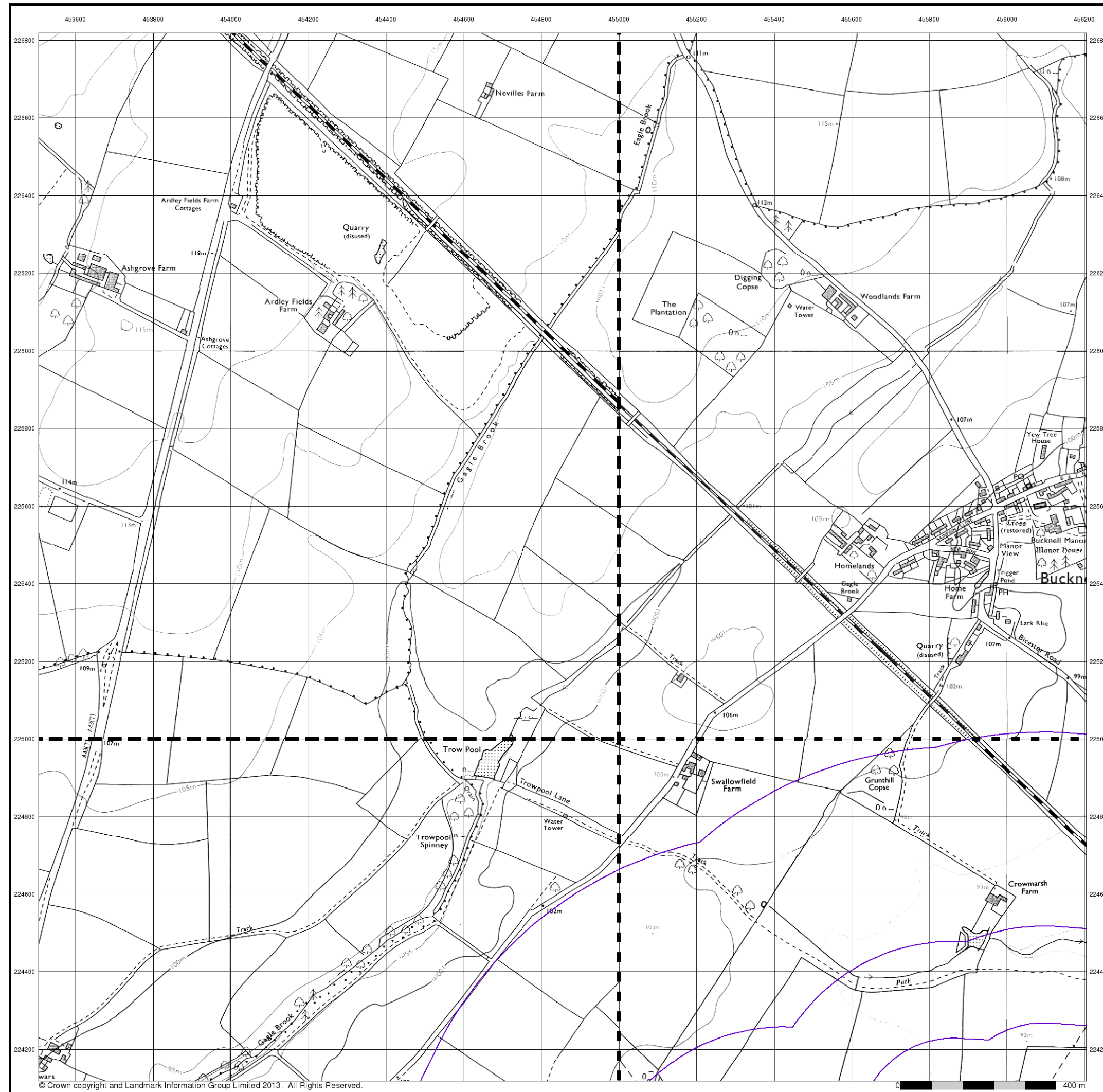
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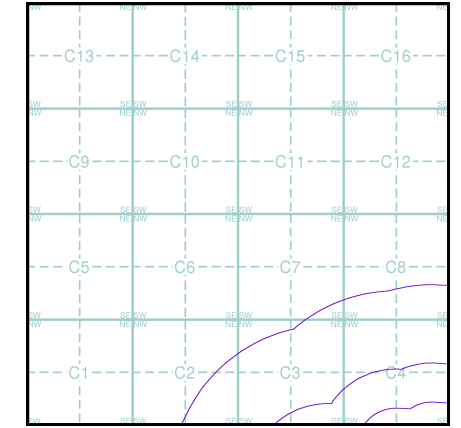
Ordnance Survey Plan
Published 1982 - 1988
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SP52NW	SP52NE
1982	1982
1:10,000	1:10,000
SP52SW	SP52SE
1982	1988
1:10,000	1:10,000

Historical Map - Slice C



Order Details

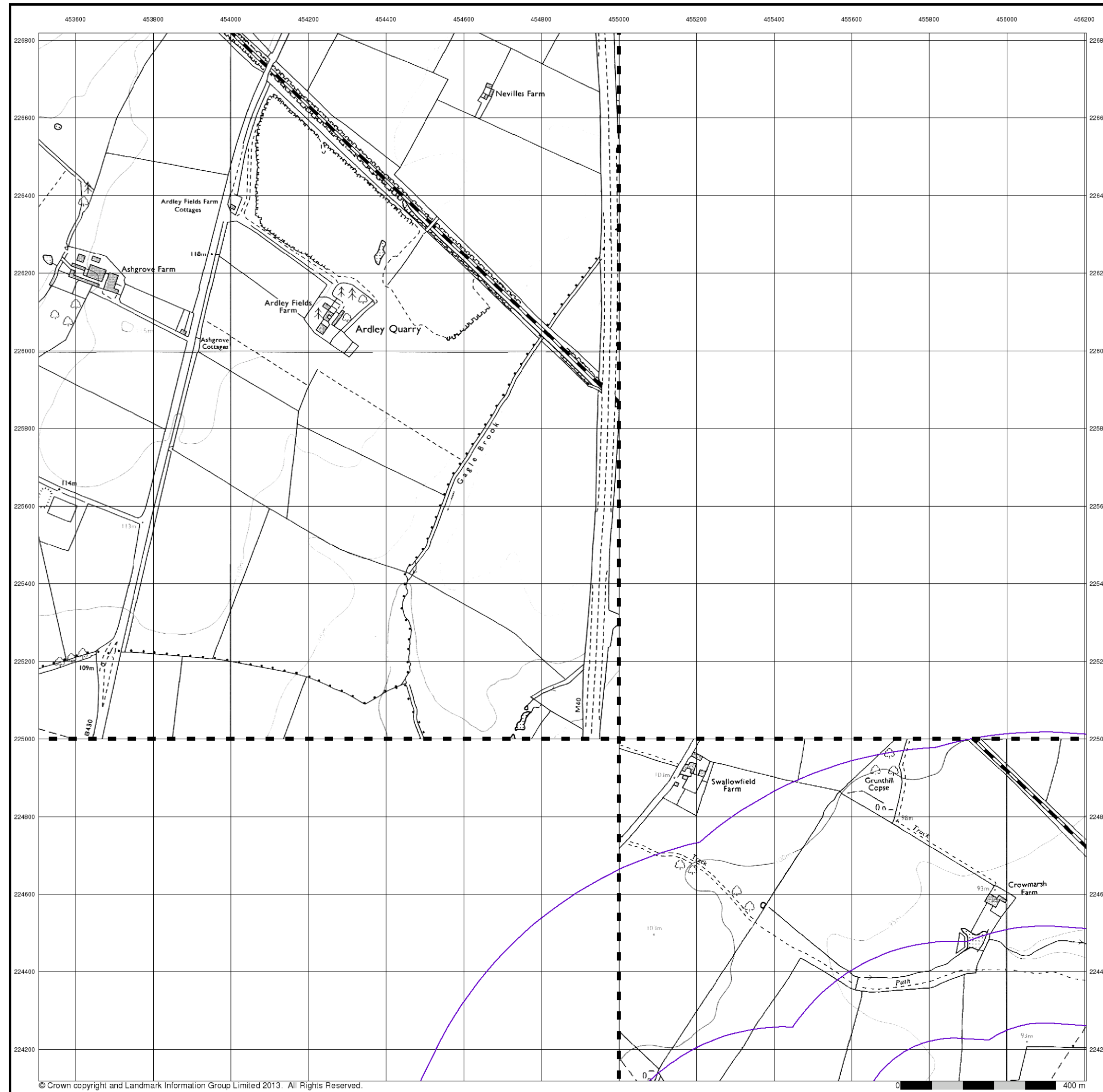
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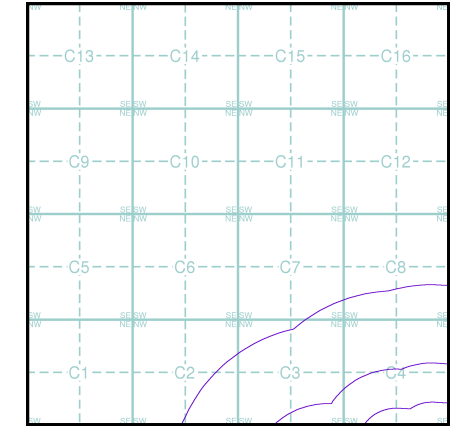
Ordnance Survey Plan
Published 1993 - 1996
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SP52NW	1993	1:10,000
SP52SE	1996	1:10,000

Historical Map - Slice C



Order Details

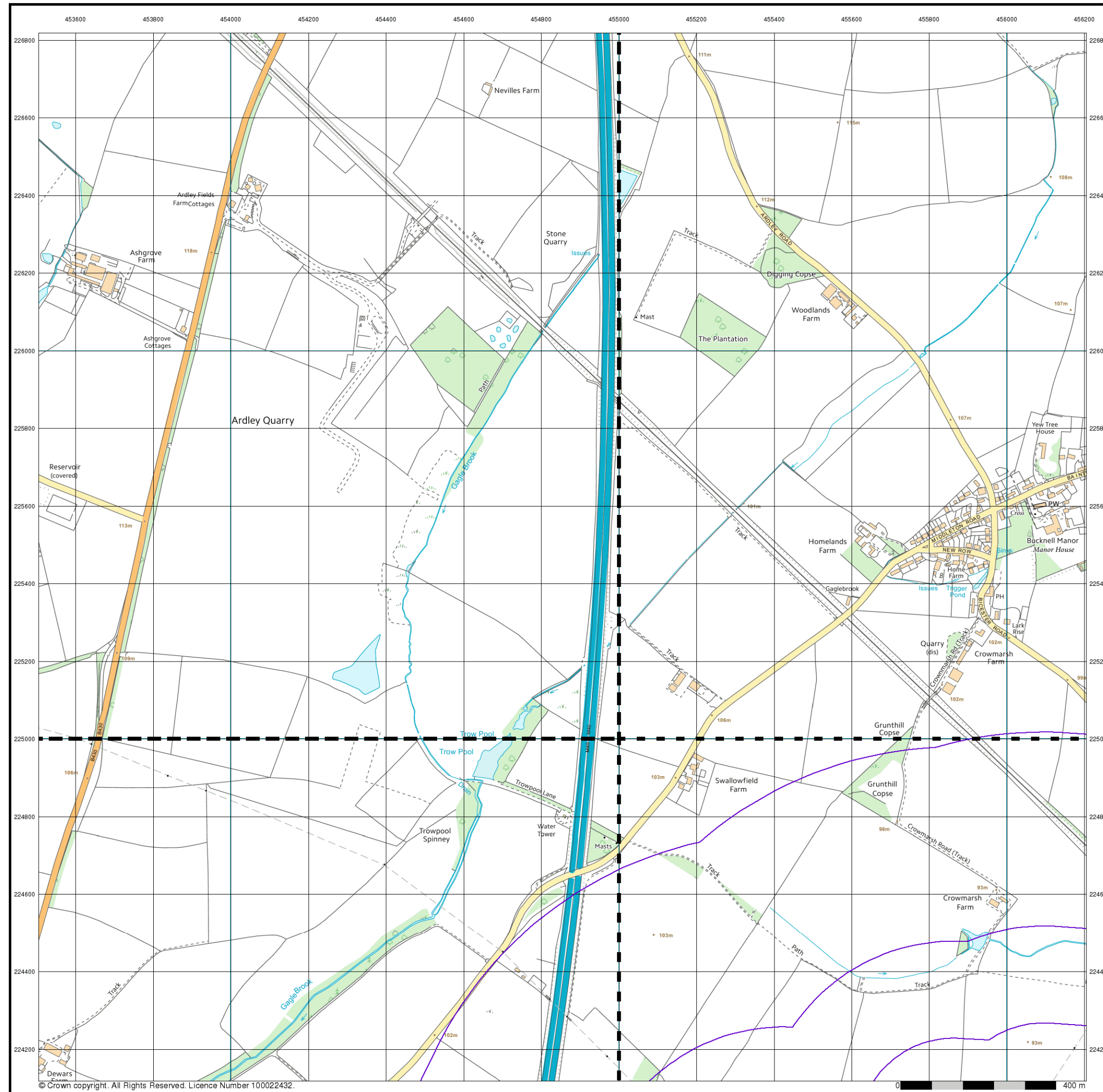
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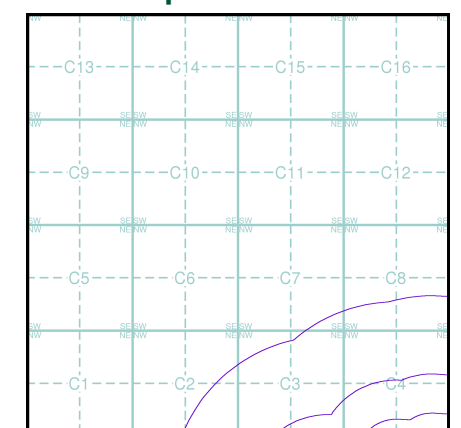
VectorMap Local
Published 2014
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SP52NW 2014 Variable	SP52NE 2014 Variable
SP52SW 2014 Variable	SP52SE 2014 Variable

Historical Map - Slice C



Order Details

Order Number: 62370009_1_1
 Customer Ref: EED14995-100
 National Grid Reference: 455520, 224490
 Slice: C
 Site Area (Ha): 90.42
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Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	-285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		
	Bracken		Heath
	Rough Grassland		
	Marsh		Reeds
	Saltings		
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		
	Standard Gauge Single Track		
	Siding, Tramway or Mineral Line		
	Narrow Gauge		
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

1:10,000 Raster Mapping

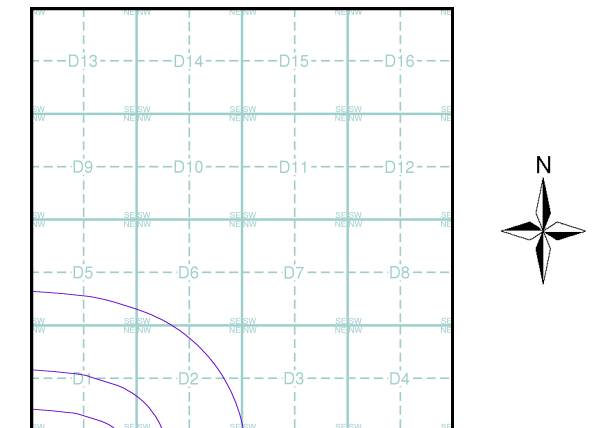
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	MHW(S) Mean high water (springs)		MLW(S) Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Oxfordshire	1:10,560	1885	2
Oxfordshire	1:10,560	1900	3
Oxfordshire	1:10,560	1923	4
Oxfordshire	1:10,560	1923	5
Oxfordshire	1:10,560	1938 - 1952	6
Historical Aerial Photography	1:10,560	1947	7
Oxfordshire	1:10,560	1952	8
Ordnance Survey Plan	1:10,000	1955	9
Ordnance Survey Plan	1:10,000	1966	10
Ordnance Survey Plan	1:10,000	1970	11
Ordnance Survey Plan	1:10,000	1982 - 1988	12
Ordnance Survey Plan	1:10,000	1996	13
VectorMap Local	1:10,000	2014	14

Historical Map - Slice D



Order Details

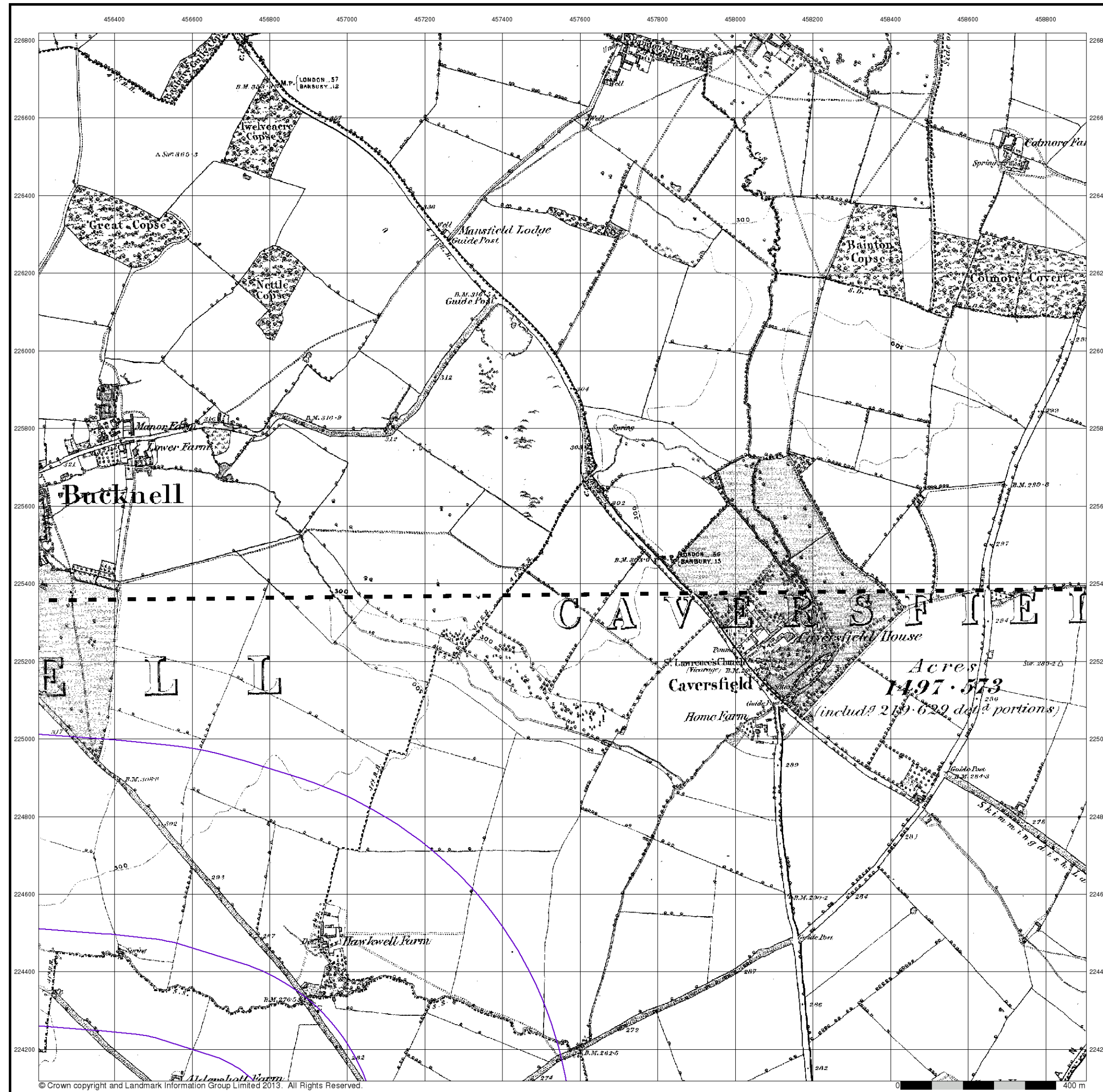
Order Number: 62370009_1_1
 Customer Ref: EED14995-100
 National Grid Reference: 456780, 224500
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 Site Area (Ha): 90.42
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Site Details

Himley Village



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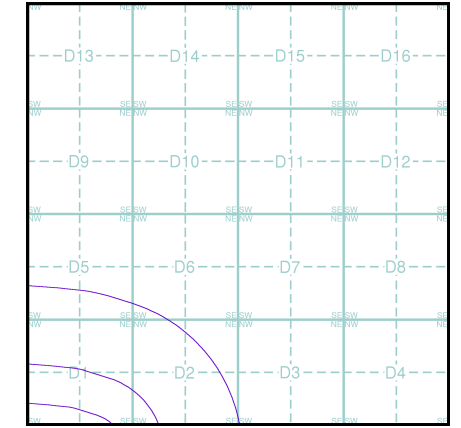
Oxfordshire
Published 1885
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

01700	1885	1:10,560
02300	1885	1:10,560

Historical Map - Slice D



Order Details

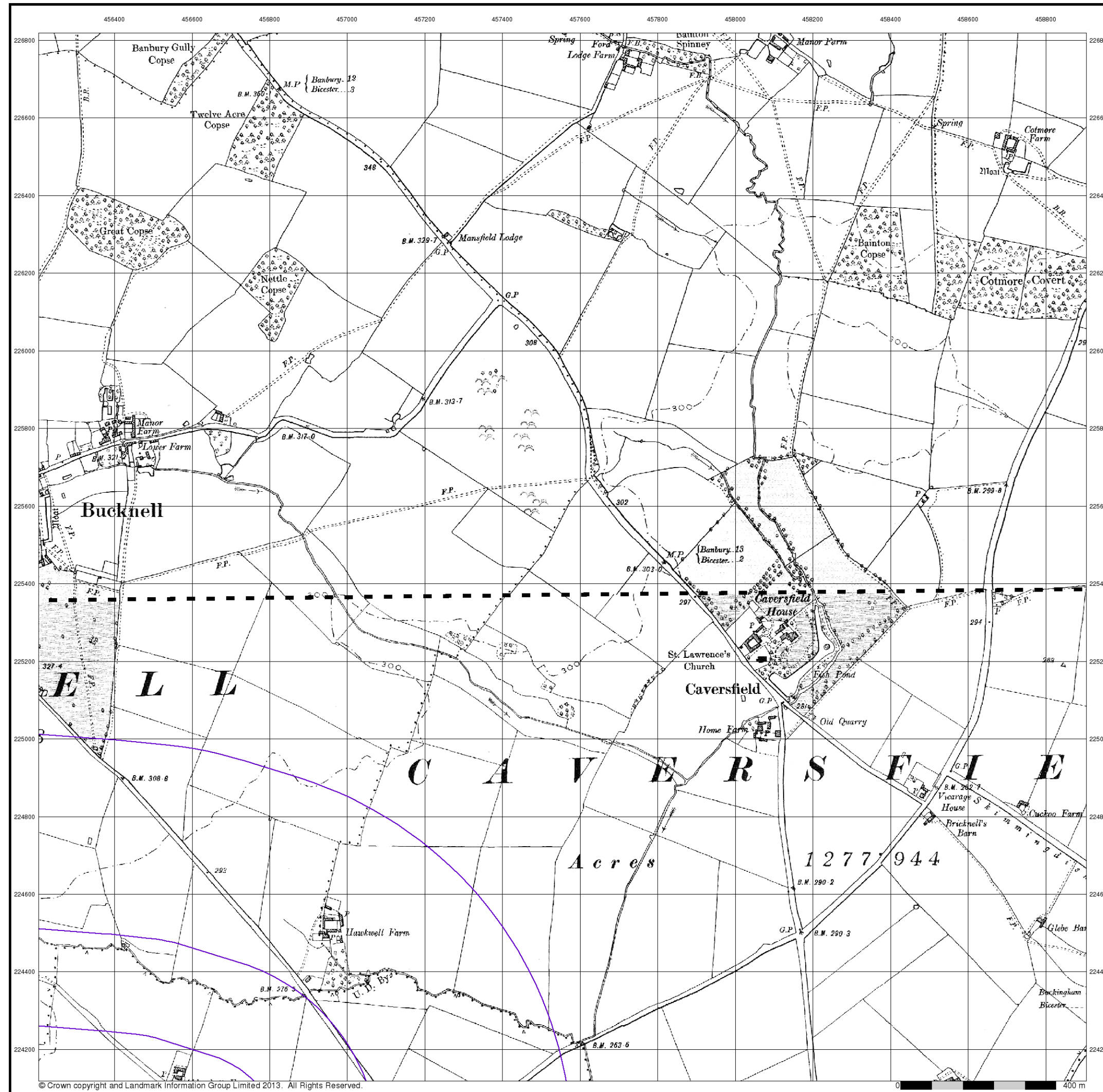
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Oxfordshire

Published 1900

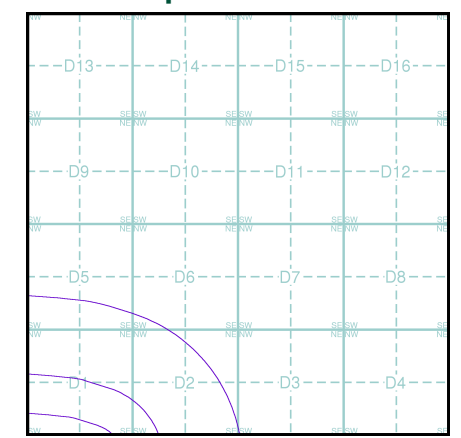
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

017SW	1900
1:10,560	
023NW	1900
1:10,560	

Historical Map - Slice D



Order Details

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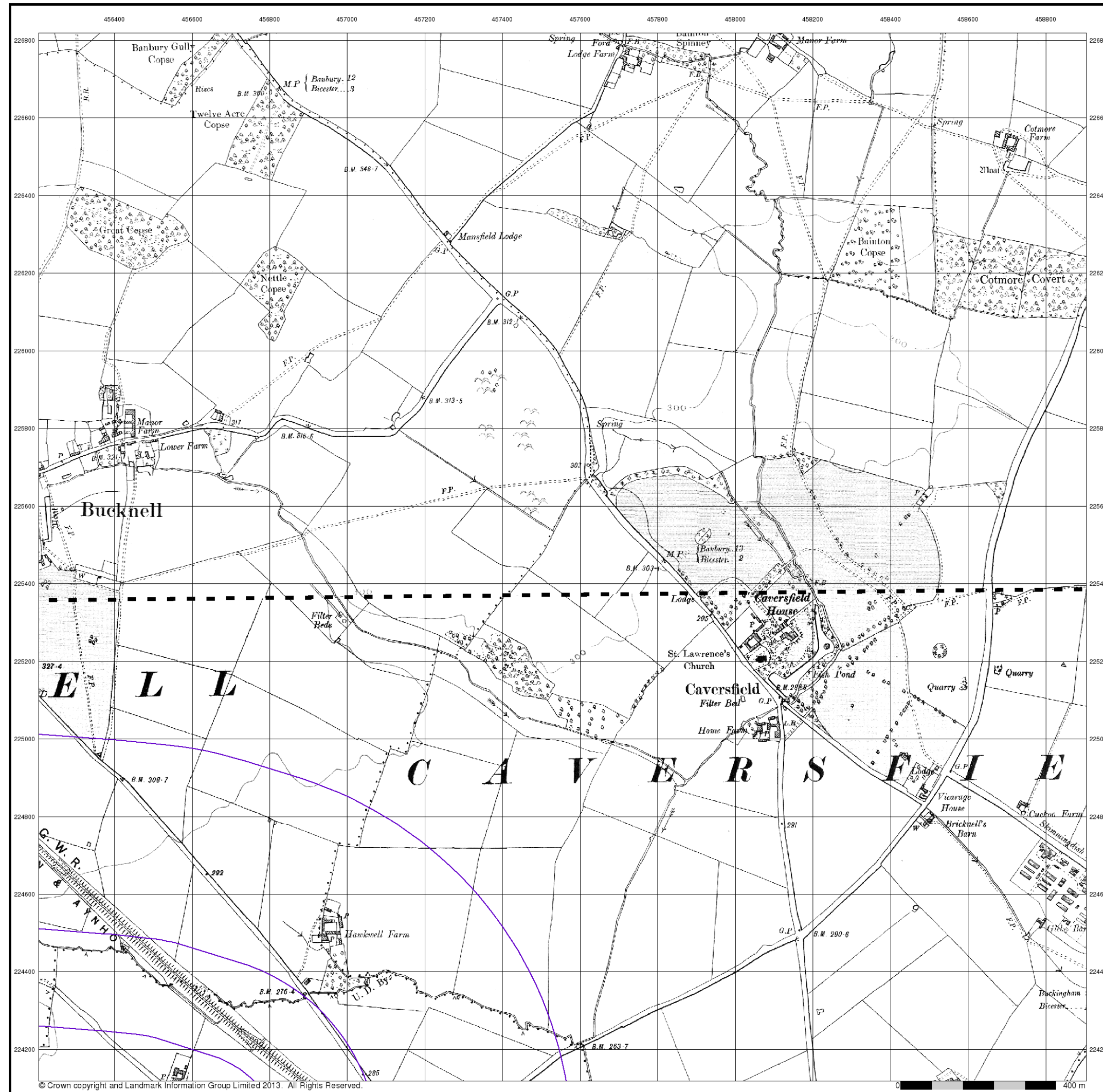
Site Details

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Oxfordshire

Published 1923

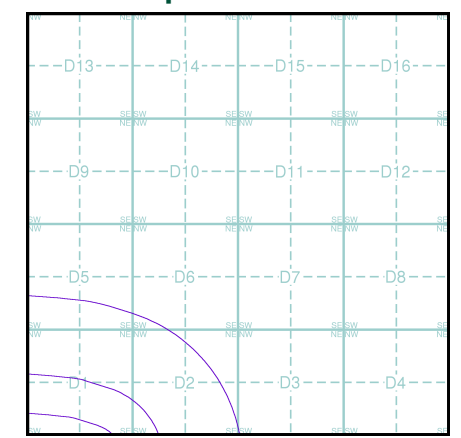
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

017SW	1923	1:10,560
023NW	1923	1:10,560

Historical Map - Slice D



Order Details

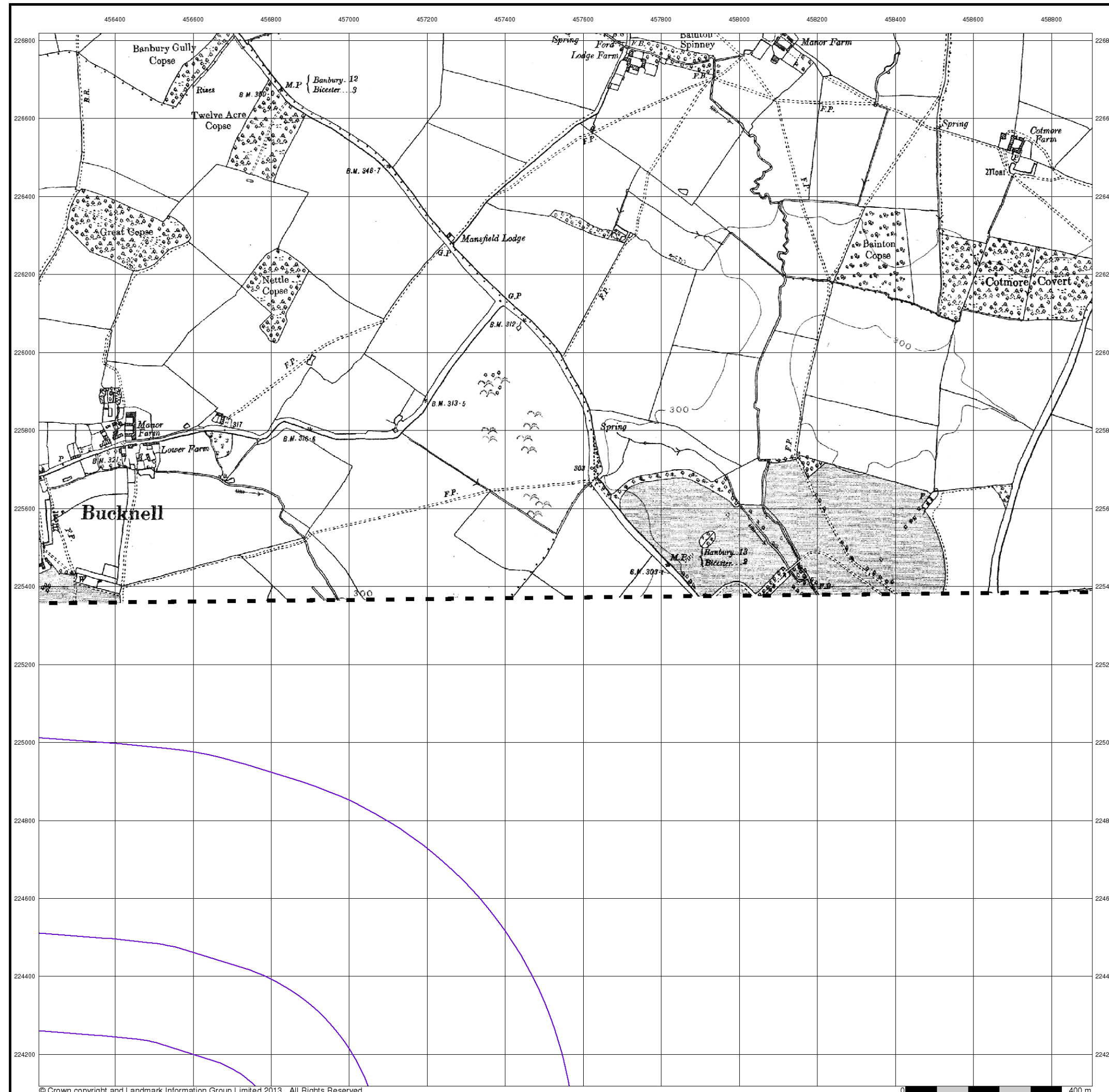
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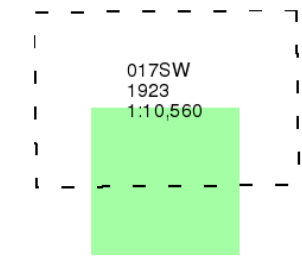
Oxfordshire

Published 1923

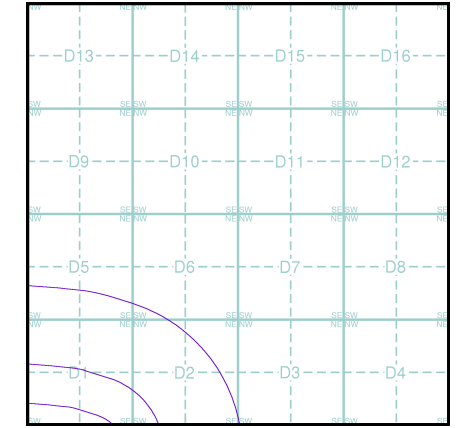
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

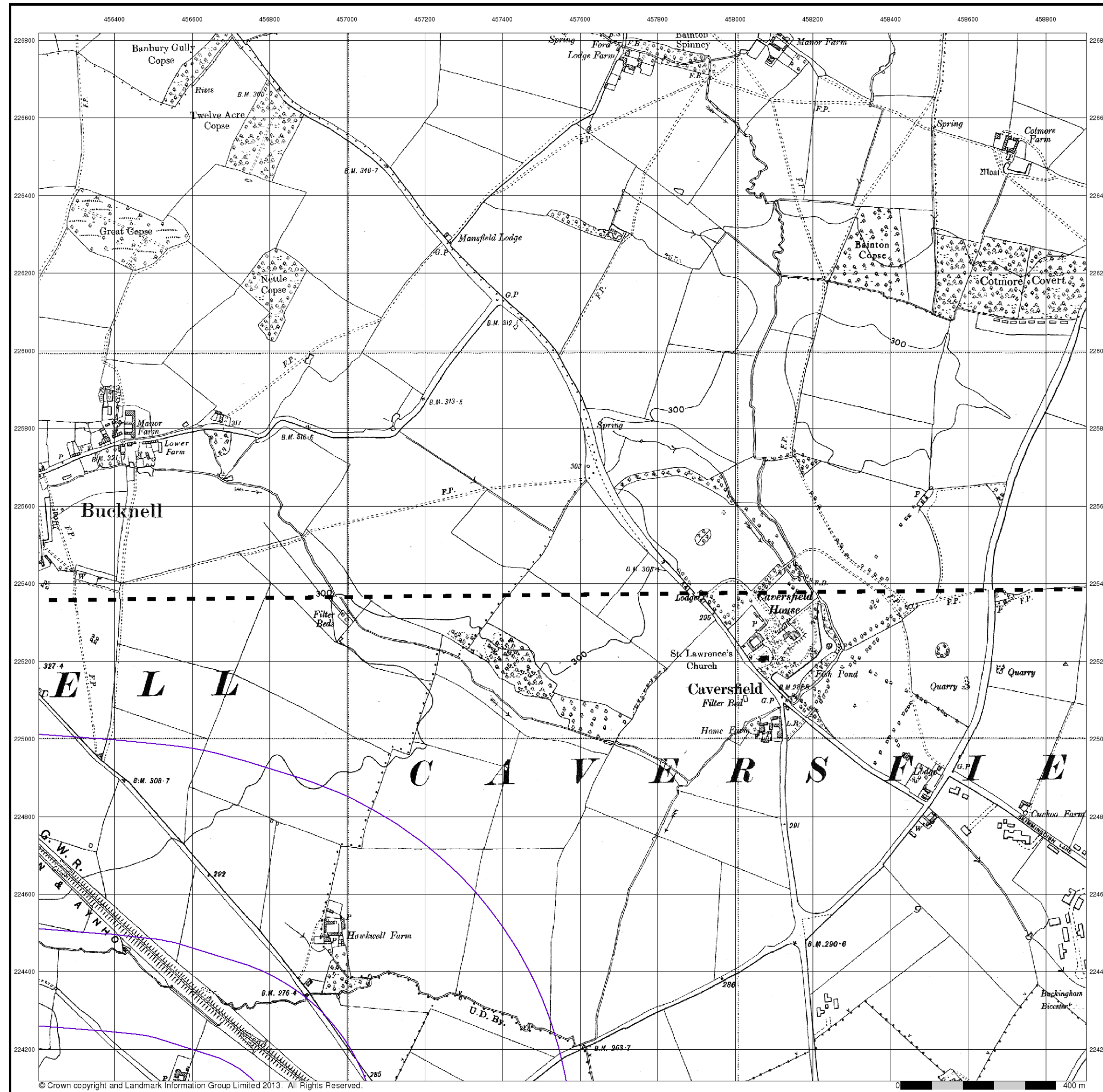
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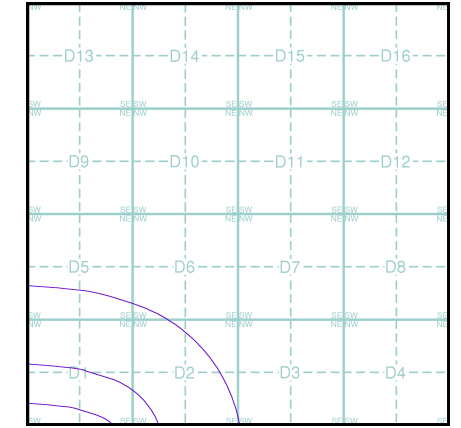
Oxfordshire
Published 1938 - 1952
Source map scale - 1:10,560

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Map Name(s) and Date(s)

017SW	1952	1:10,560
023NW	1938	1:10,560

Historical Map - Slice D



Order Details

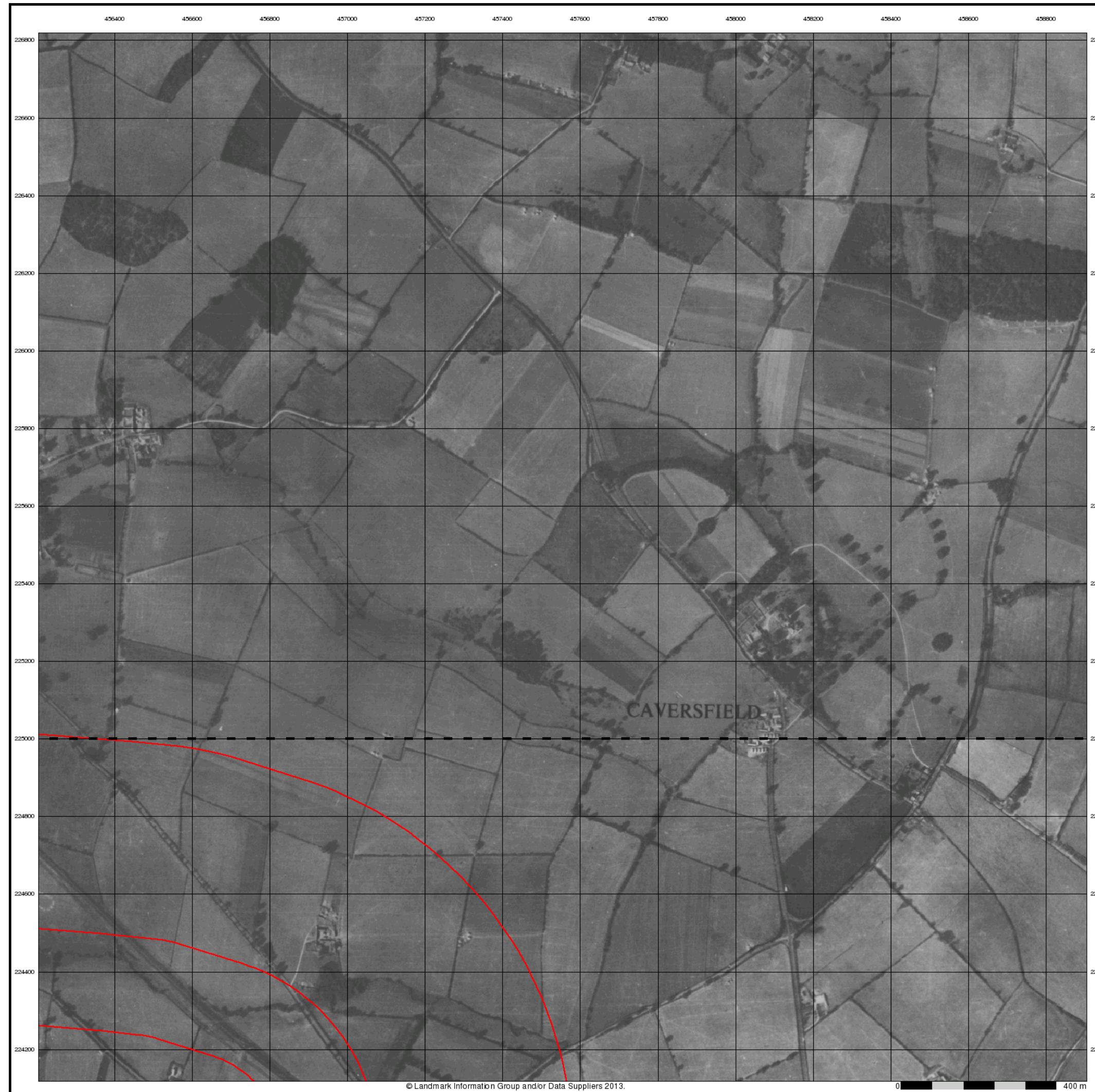
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Historical Aerial Photography

Published 1947

Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

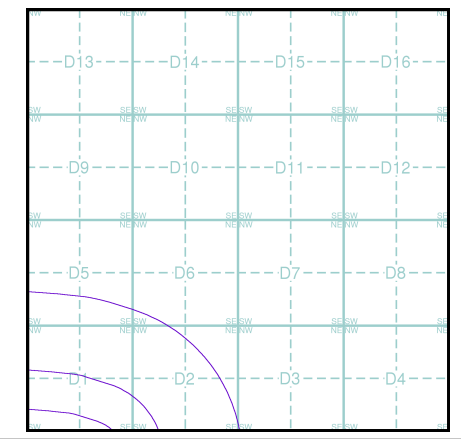
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Map Name(s) and Date(s)

SP52NE
1947
1:10,560

SP52SE
1947
1:10,560

Historical Aerial Photography - Slice D



Order Details

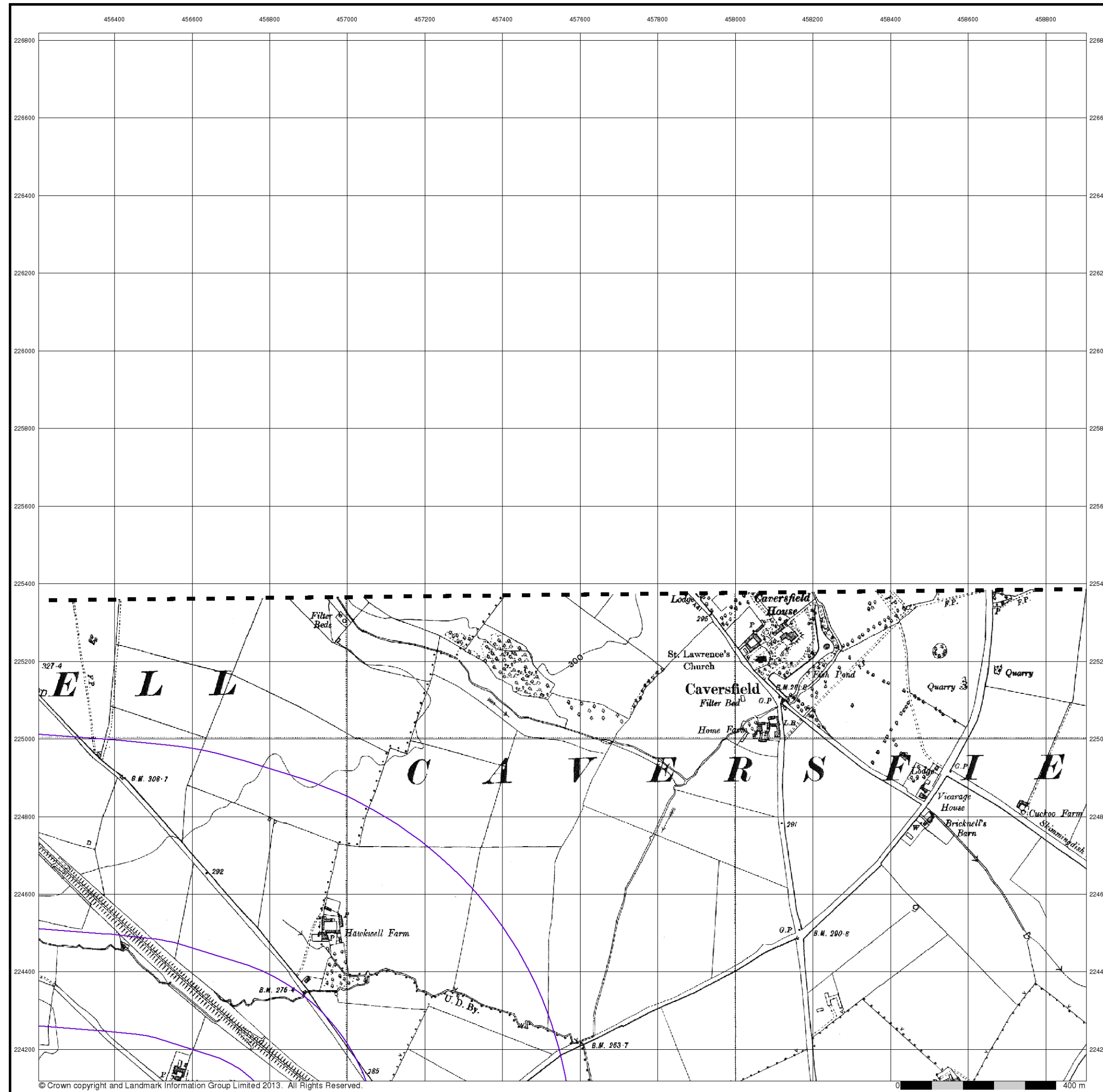
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 Customer Ref: EED14995-100
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 Site Area (Ha): 90.42
 Search Buffer (m): 1000

Site Details

Himley Village



Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



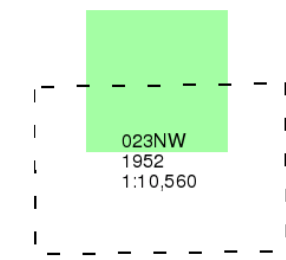
Oxfordshire

Published 1952

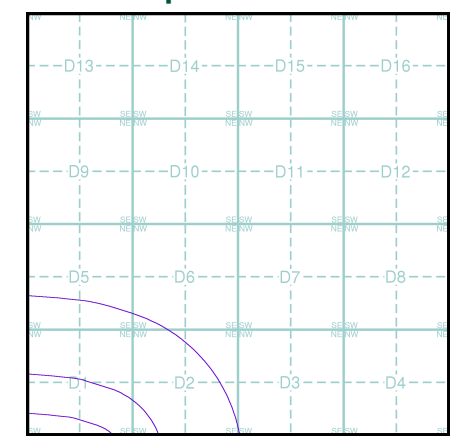
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

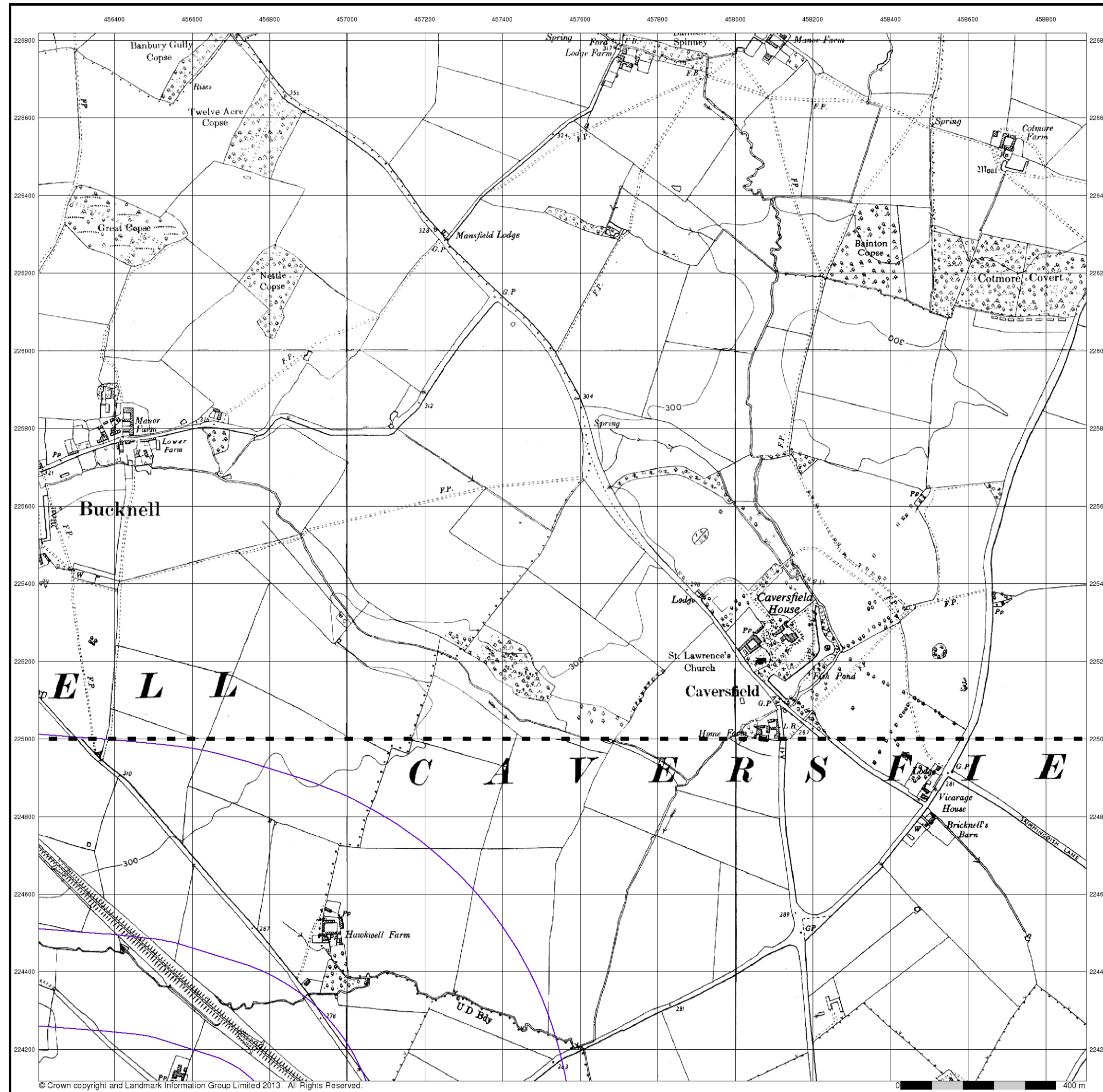
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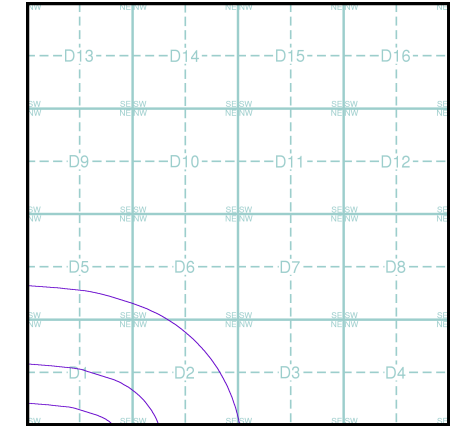
Ordnance Survey Plan
Published 1955
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SP52NE	1955
1:10,560	
SP52SE	1955
1:10,560	

Historical Map - Slice D



Order Details

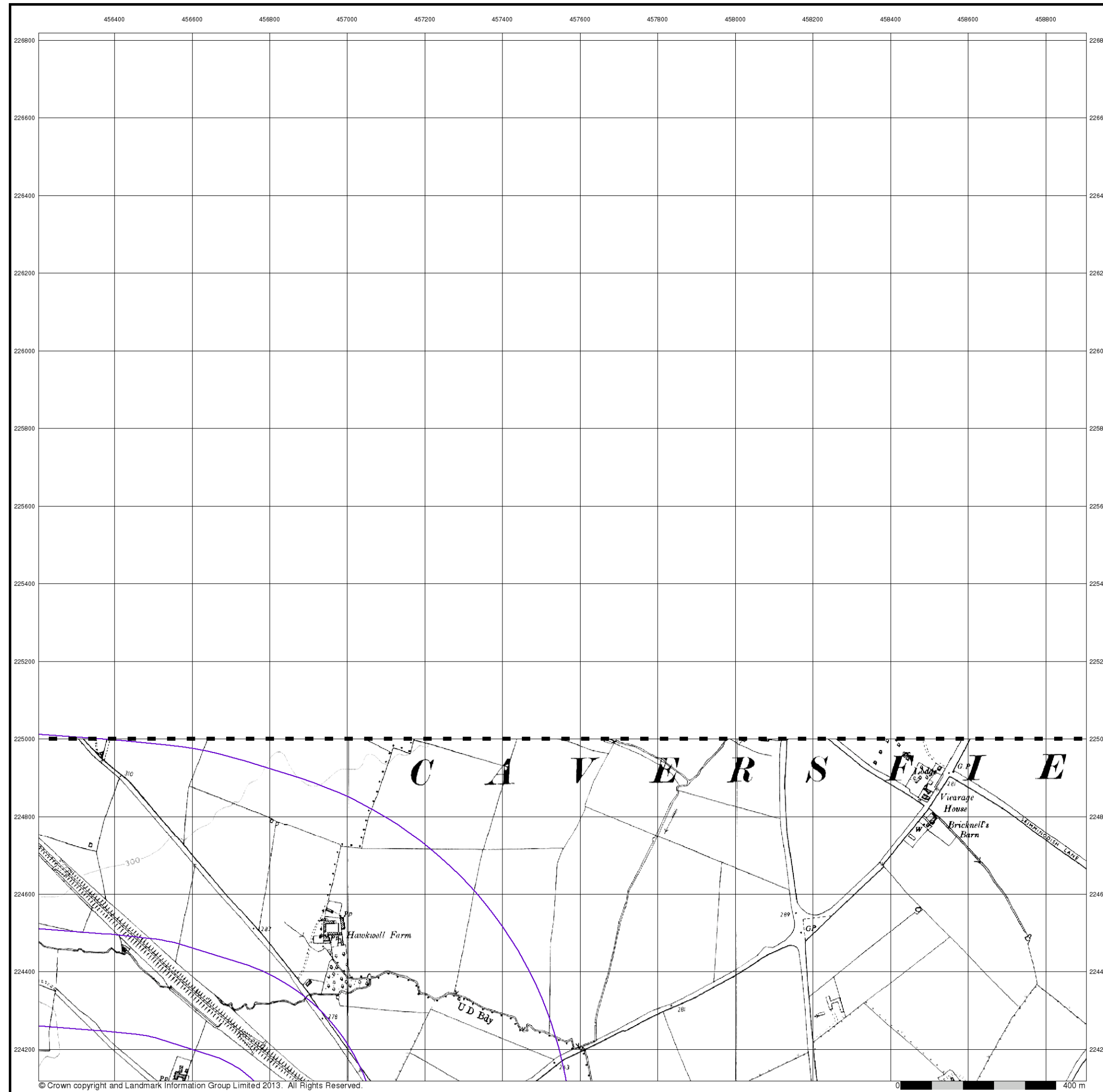
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Site Details

Himley Village



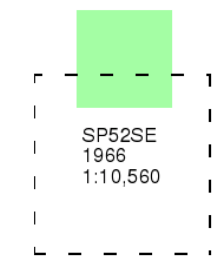
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



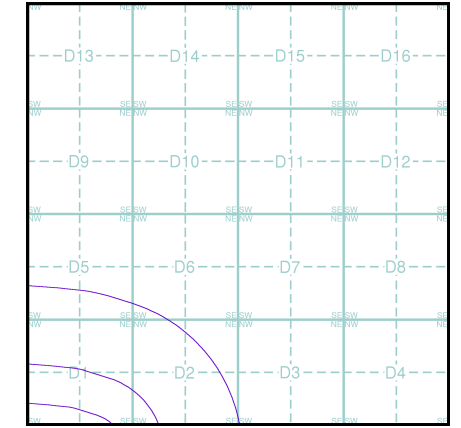
Ordnance Survey Plan
Published 1966
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice D



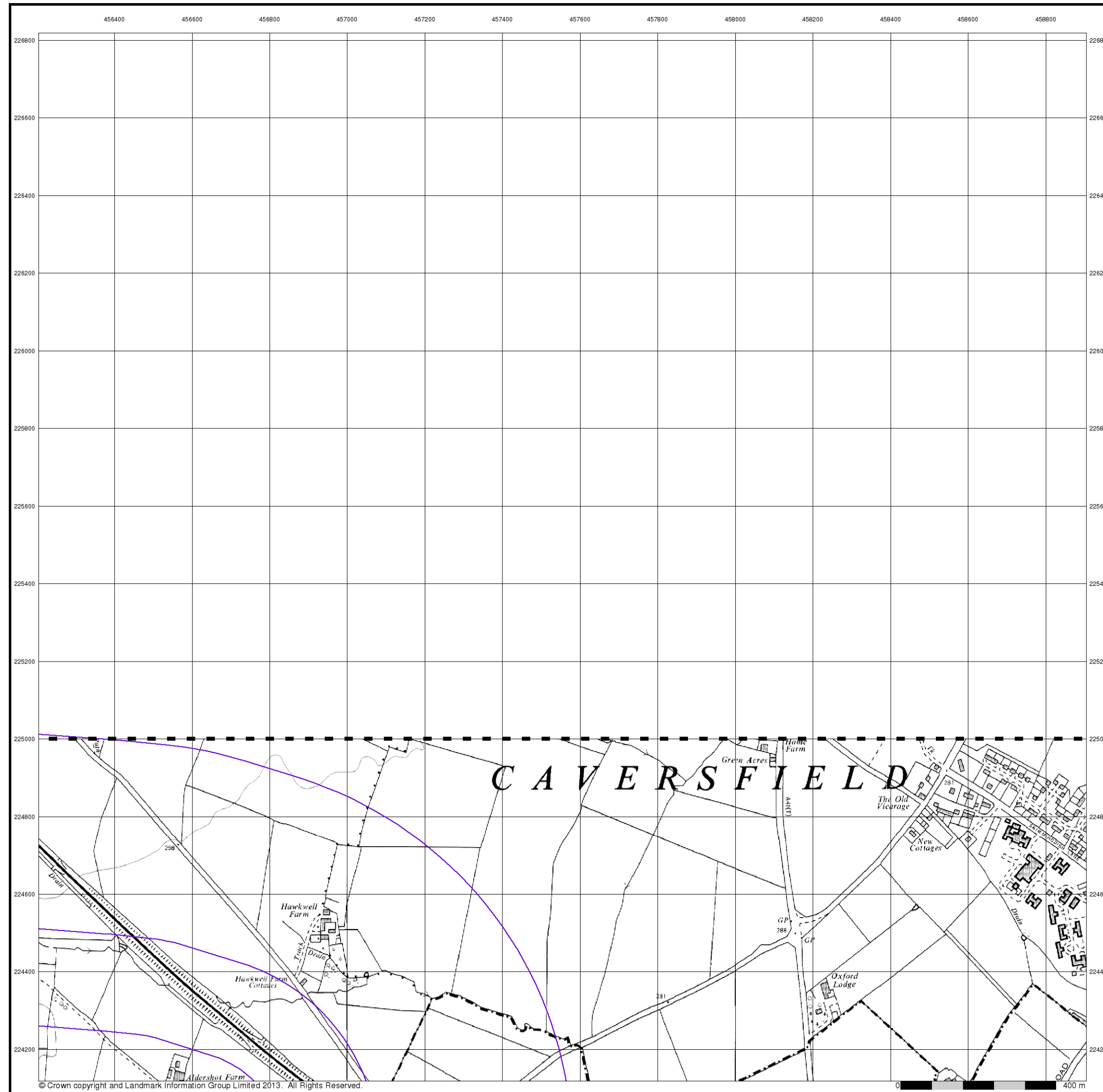
Order Details

Order Number: 62370009_1_1
 Customer Ref: EED14995-100
 National Grid Reference: 456780, 224500
 Slice: D
 Site Area (Ha): 90.42
 Search Buffer (m): 1000

Site Details

Himley Village

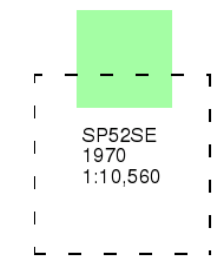
Landmark
 Information Group
 Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



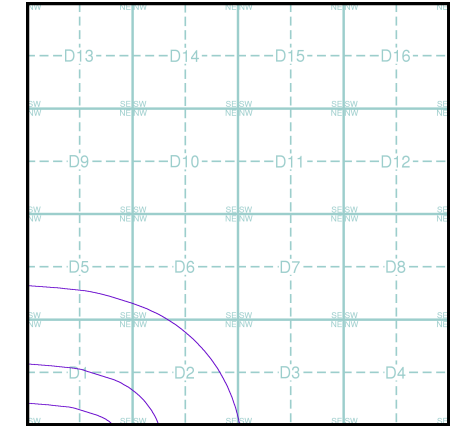
Ordnance Survey Plan
Published 1970
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

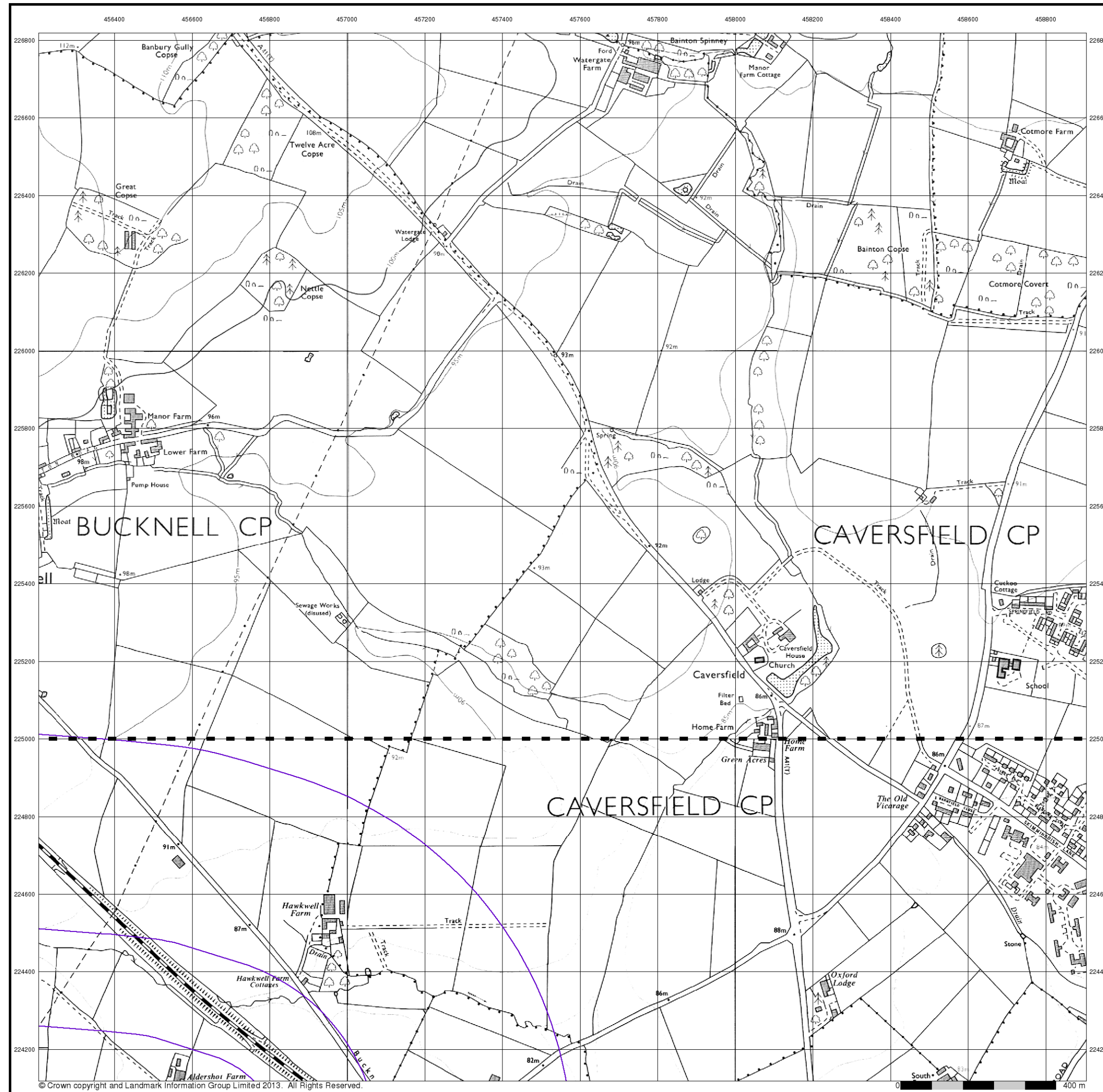
Order Number: 62370009_1_1
 Customer Ref: EED14995-100
 National Grid Reference: 456780, 224500
 Slice: D
 Site Area (Ha): 90.42
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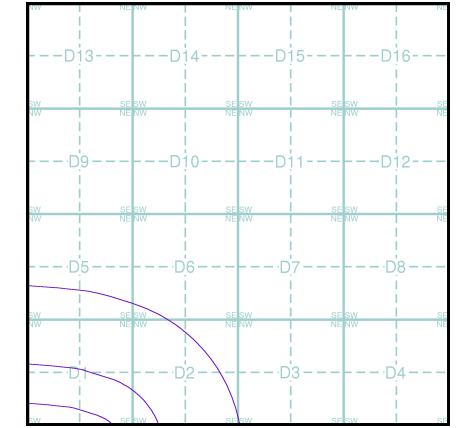
Ordnance Survey Plan
Published 1982 - 1988
Source map scale - 1:10,000

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Map Name(s) and Date(s)

SP52NE	1982
1:10,000	
SP52SE	1988
1:10,000	

Historical Map - Slice D



Order Details

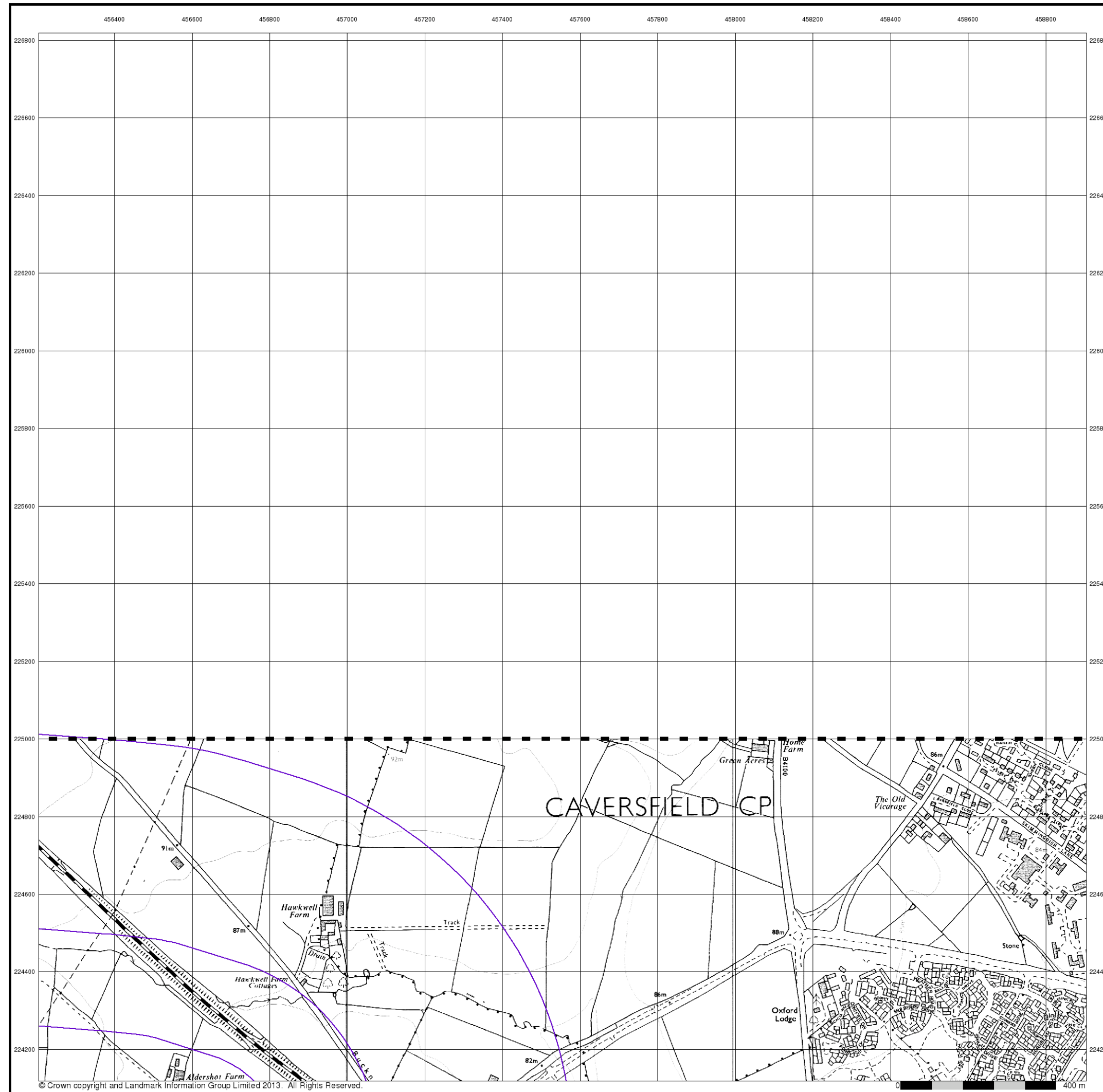
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 National Grid Reference: 456780, 224500
 Slice: D
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Site Details

Himley Village



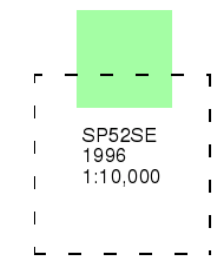
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



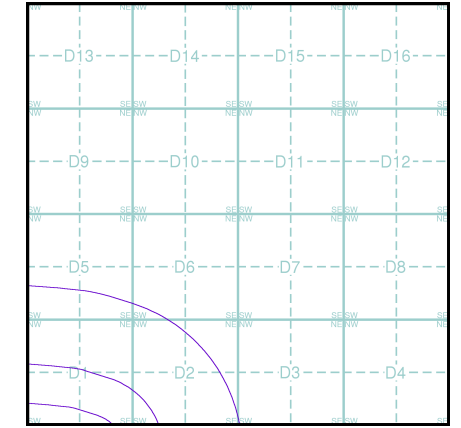
Ordnance Survey Plan
Published 1996
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

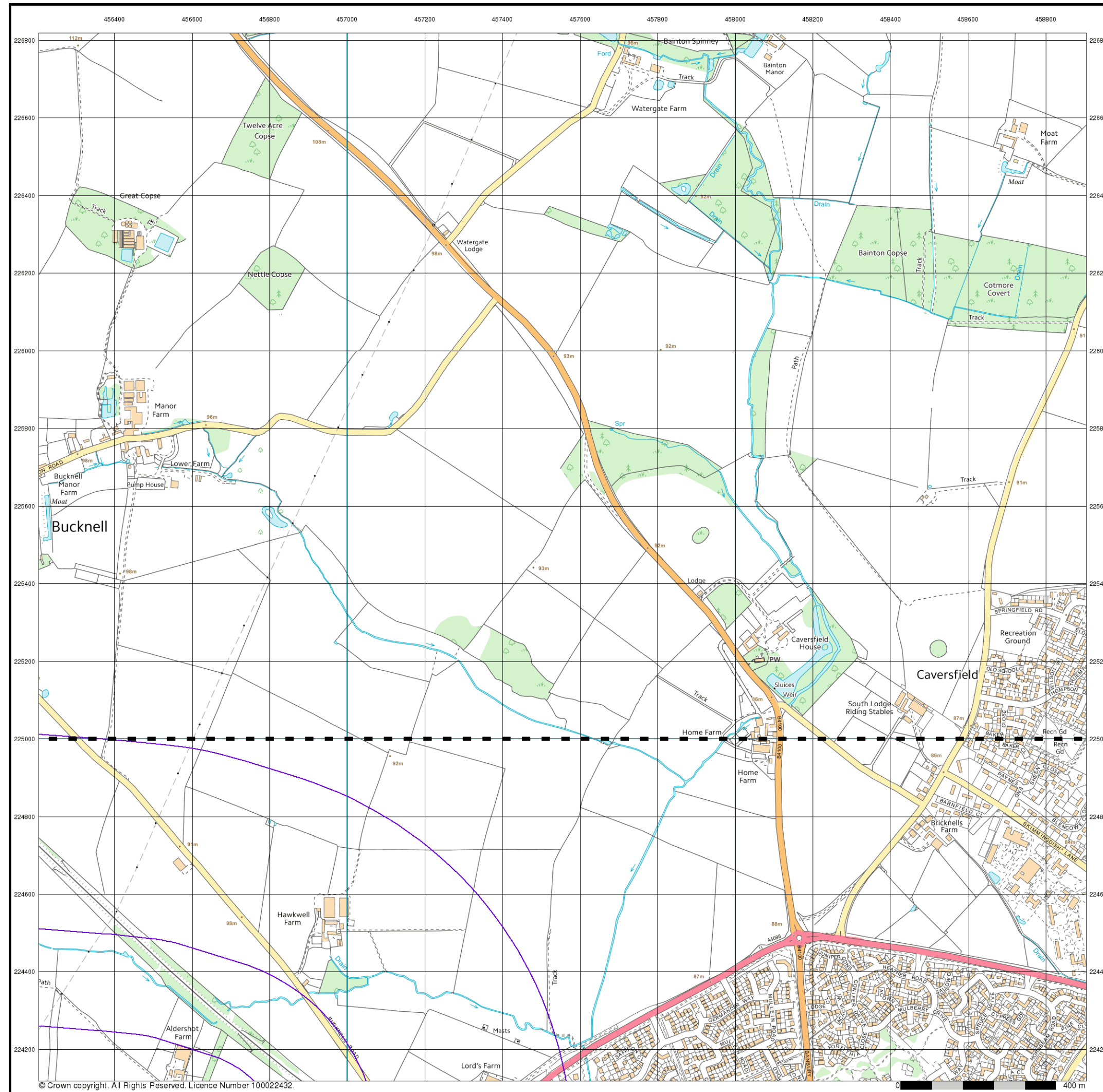
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 Slice: D
 Site Area (Ha): 90.42
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Site Details

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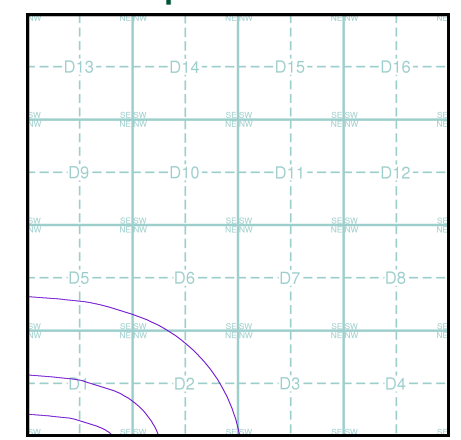
VectorMap Local
Published 2014
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SP52NE | 2014 | Variable
 SP52SE | 2014 | Variable

Historical Map - Slice D



Order Details

Order Number: 62370009_1_1
 Customer Ref: EED14995-100
 National Grid Reference: 456780, 224500
 Slice: D
 Site Area (Ha): 90.42
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B. Legislation and Planning Policy

National Legislation

Ancient Monuments and Archaeological Areas Act 1979²⁰

- 6.1. Heritage assets designated under the Ancient Monuments and Archaeological Areas Act (1979) are considered to be of national importance. Any works causing damage to heritage assets designated as scheduled monuments are a criminal offence under the Act. Consent to carry out prescribed works in scheduled monuments can be granted by the Secretary of State. Consents, where given, are usually subject to conditions. The Act operates wholly outside of the planning system, although most regional and local planning policies for the historic environment make some reference to scheduled monuments.

National Planning Policy

National Planning Policy Framework (NPPF)²¹

- 6.2. Section 12 of the NPPF, *Conserving and enhancing the historic environment* provides Government policy on planning and the historic environment. Section 12 of the NPPF states, in paragraph 128, that a planning applicant is required "to describe the significance of any heritage assets affected, including any contribution made by their setting".
- 6.3. As a minimum, the NPPF requires that the relevant historic environment record will be consulted and any heritage assets likely to be affected by the proposal will have their significance assessed using appropriate expertise. Where an application site may have an effect on heritage assets, an appropriate desk assessment should be provided to inform the planning authority's decision-making and, where appropriate, field evaluation will be undertaken to further inform planning decisions.
- 6.4. Section 12, paragraph 132, of the NPPF adds that "*heritage assets are irreplaceable, any harm or loss should require clear and convincing justification*" and Section 12, paragraphs 133 and 134 state that any harm caused by the proposal to heritage assets should be weighed against the public good of the proposal, including securing the optimum viable use of the asset(s).

Local Planning Policy

Cherwell Local Plan

- 6.5. Current planning policy from Cherwell District Council comprises the Cherwell Adopted Local Plan 1996 and the Non-Statutory Cherwell Local Plan 2011. This latter document was in preparation when work was discontinued due to changes to the national planning system, but it has been approved as interim planning policy for development control purposes. Both of these documents are due to be replaced by the new Cherwell Local Plan (2006-2031). Both the saved policies of the Cherwell Adopted Local Plan 1996 and the Non-Statutory Cherwell Local Plan 2011 contain policies which are relevant to this assessment.
- 6.6. Policy C25 states "*in considering proposals for development which would affect the site or setting of a Scheduled Ancient Monument, other nationally important archaeological sites and monuments of*

²⁰ Ancient Monuments and Archaeological Areas Act 1979

²¹ Department for Communities and Local Government, March 2012. *National Planning Policy Framework*

special local importance, the council will have regard to the desirability of maintaining its overall historic character, including its protection, enhancement and preservation where appropriate”.

- 6.7. Paragraph 9.56 goes on to say that it must be acknowledged that should the character and setting of an archaeological site or monument, which may include historic landscapes, parks and gardens, be damaged or even destroyed by certain forms of development, policy C25 will apply.
- 6.8. From the Non-Statutory Cherwell Local Plan there are two policies of particular relevance. ENV47 states that “*the council will promote sustainability of the historic environment through conservation, protection and enhancement of the archaeological heritage and its interpretation and presentation to the public*”. It goes on to add that scheduled monuments and sites of national and regional importance and their settings will be preserved; sites, buildings, landscapes and their settings of archaeological interest will require assessment through a desk-top study and possibly field evaluation; and that development that would adversely affect archaeological remains must either preserve them *in situ* or provide other suitable mitigation.
- 6.9. Policy ENV44 states that “*special care will be taken to ensure that development that is situated within the setting of a listed building respects the architectural and historic character of the building and its setting*”.

Relevant National, Regional and Local Research Agendas

This assessment makes reference to national and regional research frameworks, namely the Solent Thames Research Framework.

<http://www.english-heritage.org.uk/professional/research/strategies/research-resources/>

National Guidance

- 6.10. Following the publication of the National Planning Policy Framework, PPS5 was deleted. However the Practice Guide issued by English Heritage²² remains a valid and Government endorsed document. Although the references in the document to PPS5 policies are now redundant, the policies in the NPPF are very similar and the intent is the same, so the Practice Guide remains almost entirely relevant and useful in the application of the NPPF.
- 6.11. The online Planning Policy Guidance²³ on Conserving and Enhancing the Historic Environment was issued by the Department for Communities and Local Government in March 2014 as a web-based resource.
- 6.12. Additionally, English Heritage published draft written guidance (currently open for public and professional comment) intended to assist local planning authorities, planning and other consultants, owners, applicants and other interested parties in implementing historic environment policy in the National Planning Policy Framework and the related guidance given in the Planning Practice Guidance, published by the Government in March 2014. This updated guidance comprises three separate documents:
 - Historic Environment Good Practice Advice Note 1: The Historic Environment in Local Plans;
 - Historic Environment Good Practice Advice Note 2: Decision-Taking in the Historic Environment; and
 - Historic Environment Good Practice Advice Note 3: The Setting of Heritage Assets.

²² English Heritage, March 2010. *PPS5: Planning for the Historic Environment – Practice Guide*

²³ Department for Communities and Local Government, 2014. *Online Planning Policy Guidance* Available from: <http://planningguidance.planningportal.gov.uk/> [Accessed: November 2014]

- 6.13. These documents, along with some additional more detailed information (termed Technical Advice in Planning) will replace both the PPS 5 Planning and the Historic Environment: Historic Environment Planning Practice Guide (2010) and various pieces of English Heritage guidance, as part of a wider guidance review the organisation is currently carrying out. The PPS5 Practice Guide remains in place for the time being but it is expected that the Government will cancel it once the post-consultation versions of these advice notes are published.

C. Historic Environment Records - Gazetteer

Monuments:

MONUMENT UID	NAME	MONUMENT RECORD TYPE	PERIOD	MONUMNET TYPES
MOX13251	2 BARNS APPROXIMATELY 700 METRES NORTH EAST OF HINLEY FARMHOUSE, CHESTERTON	Building	Post Medieval	BARN
MOX24475	Prehistoric settlement site at Whitelands Farm	Monument	Early Neolithic to Post Medieval	QUARRY, CURVILINEAR ENCLOSURE, RIDGE AND FURROW, WINDMILL
MOX24518	Late Prehistoric or Roman features at Bicester Eco-development	Monument	Early Neolithic to Roman	ENCLOSURE, DITCH, PIT, TRACKWAY
MOX26600	Iron Age Features	Monument	Iron Age	DITCH, RING DITCH, POST HOLE
MOX26613	Romano-British Features	Monument	Roman	ENCLOSURE, DITCH, DITCH
MOX4971	Sexintone Deserted Medieval Village	Monument	Medieval	DESERTED SETTLEMENT
MOX4980	Undated Enclosure with Circular Feature	Monument	Unknown	RECTANGULAR ENCLOSURE, CIRCULAR ENCLOSURE
MOX5514	Site of Post Medieval Windmill, Bicester Field	Monument	Post Medieval	WINDMILL
MOX5586	Bignell Deserted Medieval Village	Monument	Medieval	SETTLEMENT
MOX5629	Bronze Age Ring Ditches (c.600m ENE of Bignell House)	Monument	Bronze Age	RING DITCH
MOX5631	Bronze Age Ring Ditch (350m N of Himley Farm)	Monument	Bronze Age	RING DITCH
MOX5632	Bronze Age Ring Ditch (300m S of King's End Farm)	Monument	Bronze Age	RING DITCH
MOX5639	Undated Rectangular Enclosure (c.450m ENE of Bignell House)	Monument	Unknown	RECTANGULAR ENCLOSURE, LINEAR FEATURE

MONUMENT UID	NAME	MONUMENT RECORD TYPE	PERIOD	MONUMNET TYPES
MOX8461	King's End Farm Roman Site	Monument	Roman	DITCH, INHUMATION, FINDSPOT

Events:

EVENT UID	EVENT NAME	ORGANISATION	TYPE
EOX2899	EFW Grid Connection, Ardley	SLR Consulting Ltd	DBA
EOX3334	Whitelands Farm	Pre-Construct Archaeology	GS
EOX3414	Archaeological geophysical survey for the proposed Bicester Eco Development Oxfordshire	Northamptonshire Archaeology	GS
EOX3463	Bicester Phase 2	Pre-Construct Archaeology	EX
EOX5528	Land off Howes Lane	Northamptonshire Archaeology	GS
EOX5551	An Archaeological Evaluation of Land at Howes Lane	Northamptonshire Archaeology	EV
EOX5650	Bicester Eco Development	Oxford Archaeology	EV

Nationally Designated Listed Buildings:

NAME	UID	LISTING	List Entry Number
2 BARNs APPROXIMATELY 700 METRES NORTH EAST OF HINLEY FARMHOUSE, CHESTERTON	244532	Grade II	1046883

D. Glossary (National Planning Policy Framework)²⁴

Archaeological interest	There will be archaeological interest in a heritage asset if it holds, or potentially may hold, evidence of past human activity worthy of expert investigation at some point. Heritage assets with archaeological interest are the primary source of evidence about the substance and evolution of places, and of the people and cultures that made them.
Conservation (for heritage policy)	The process of maintaining and managing change to a heritage asset in a way that sustains and, where appropriate, enhances its significance.
Designated heritage asset	A World Heritage Site, Scheduled Monument, Listed Building, Protected Wreck Site, Registered Park and Garden, Registered Battlefield or Conservation Area designated under the relevant legislation.
Heritage asset	A building, monument, site, place, area or landscape identified as having a degree of significance meriting consideration in planning decisions, because of its heritage interest. Heritage asset includes designated heritage assets and assets identified by the local planning authority (including local listing).
Historic environment	All aspects of the environment resulting from the interaction between people and places through time, including all surviving physical remains of past human activity, whether visible, buried or submerged, and landscaped and planted or managed flora.
Historic environment record	Information services that seek to provide access to comprehensive and dynamic resources relating to the historic environment of a defined geographic area for public benefit and use.
Setting of a heritage asset	The surroundings in which a heritage asset is experienced. Its extent is not fixed and may change as the asset and its surroundings evolve. Elements of a setting may make a positive or negative contribution to the significance of an asset, may affect the ability to appreciate that significance or may be neutral.
Significance (for heritage policy)	The value of a heritage asset to this and future generations because of its heritage interest. That interest may be archaeological, architectural, artistic or historic. Significance derives not only from a heritage asset's physical presence, but also from its setting.

²⁴ Department for Communities and Local Government, March 2012. *National Planning Policy Framework*

APPENDIX 15.2
INTERPRETATION OF AERIAL PHOTOGRAPHS FOR ARCHAEOLOGY

Bicester Eco Town, Oxfordshire

PART 1: The Entire Site

Interpretation of Aerial Photographs for Archaeology

October 2010

Bicester Eco Town, Oxfordshire

PART 1: The Entire Site

Interpretation of Aerial Photographs for Archaeology

Client Name: Hyder Consulting (UK) Ltd

Document Reference: CC210-0802-1-1

Project Number: CC210-0802

Quality Assurance

Issue

DRAFT

Date

5th October 2010

Prepared by

Chris Cox
BA MA MlfA

Signed

Director

QA Checked by

Tracy Michaels
BA AlfA

Disclaimer

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We disclaim any responsibility to the client and others in respect of matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility for the actions and opinions of third parties, to whom this report, or any part thereof, is made known. Any such party relies on the report at its own risk.

Bicester Eco Town, Interpretation of Aerial Photographs for Archaeology PART 1
CC210-0802-1-1

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APPENDIX

Appendix 1	Aerial Photographs Consulted at English Heritage National Monuments Record (EH NMR)
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PLANS

Plan 1	Bicester Eco Town PART 1: The Entire Site Location of the Study Area
	0802/01 October 2010 CC
Plan 2	Bicester Eco Town PART 1: The Entire Site Location of sites identified from aerial photographs in the south west Sector
	0802/02 October 2010 CC
Plan 3	Bicester Eco Town PART 1: The Entire Site Location of sites identified from aerial photographs in the north west Sector
	0802/03 October 2010 CC
Plan 4	Bicester Eco Town PART 1: The Entire Site Overview of all sites identified from aerial photographs
	0802/06 October 2010 CC

SUMMARY

- S1 This interpretation of aerial photographs was prepared by Chris Cox at Air Photo Services Ltd on behalf of Hyder Consulting (UK) Ltd in September and October 2010. The work was commissioned to support the assessment of the potential impact of a proposed development on cultural heritage assets within the site.
- S2 The report contains two parts.
- S3 This report, Part 1 (210-0802-1-1) assesses the Entire Site, including the Exemplar Site (**Plan 1** 0802/01). Part 2 (210-0802-2-1) assesses The Exemplar Site only, and may be presented as a separate report if necessary.
- S4 The Entire Site is centred at National Grid Reference (NGR) SP 565 240, to the north-west of Bicester in Oxfordshire, UK. It comprises c. 4.5 km² of land. The study area lies on a limestone substrate which give rise to thin well drained calcareous soils and has been ploughed and used for arable agriculture. Calcareous soils and substrates are free draining and thus conducive to the formation of crop marks, where cereal and other crops grow more vigorously over buried ditches and pits, or less well over banks and metalled surfaces. They also commonly show natural geological features as marks in crops in addition to any archaeological features.
- S5 The object of this aerial photographic interpretation was to provide information on the location and nature of any archaeological features or areas of archaeological potential visible on existing aerial photographs within the site, in comparison to the wider environs.
- S6 Aerial photographs taken between 1930 and the present day were examined in the library of the English Heritage National Monuments Record (EH NMR), the Oxfordshire Heritage Environment Record (OHER) and online at Google Earth (timelines between 1999 and 2010) and Multimap.co.uk (Getmapping, 1999). Photographs were examined by Chris Cox and Rog Palmer. Data supplied by the NMR Monuments Reports the OHER, Ordnance Survey (OS) and mapping and data supplied by the Soil Survey of England and Wales (SSEW 1983).
- S7 Fifteen individual areas of archaeological interest were identified from aerial photographs. These are summarised in Table 1 over the page, illustrated at **Plans 2 - 4** (0802/02, 03 & 06) and discussed below.

AP Site No	NGR	Description	OHER Reference
AP 1	SP 564 253	Upstanding and eroded Medieval fields (ridge and furrow) and buried former boundary ditches.	None
AP 2	SP 569 257	Upstanding Medieval fields (ridge and furrow) and headland.	None
AP 3	SP 573 248	Complex and extensive ditches pits and enclosures which show as marks in crops.	15958
AP 4	SP 573 244	Unusual curvilinear shaped probable cut feature which shows as a crop mark. The origin of this is uncertain.	None
AP 5	SP 573 244	Slightly upstanding ridges in the floodplain of a small watercourse which may be either traces of Post Medieval water meadows or Medieval cultivation or drainage.	None
AP 6	SP 577 253	Buried sub-rectangular ditched enclosure, pits and ditches which show as marks in crops.	None
AP 7	SP 584 255	Upstanding remains of a Deserted Medieval Village (DMV) at Caversfield, outside of the Site.	Outside the study area
AP 8	SP 568 245	Eroded Medieval fields (ridge and furrow) and cut feature.	None
AP 9	SP 565 242	Buried ditches and possible enclosures centred upon Aldershot Farm.	None
AP 10	SP 558 240	Eroded and slightly upstanding Medieval fields (ridge and furrow)	None
AP 11	SP 560 238	Buried ditches, possible enclosures and a ring ditch (possible eroded and buried Bronze Age funerary site).	13907

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AP 12	SP 551 233	Possible buried sinuous ditches and small possible enclosure which lies just outside the Site boundary.	None
AP 13	SP 565 233	Possible buried ditched enclosure and sinuous ditches.	None
AP 14	SP 564 230	Possible ditches. This site is not easily distinguished from the many complex natural features in the area, but may link with previously recorded sites which now lie beneath houses in the adjacent area to the west.	None
AP 15	SP 562 230	Buried ditches and enclosures.	None

- S8 The natural ground in this area shows very complex evidence for cracking in the underlying limestone and 'patterned ground'. These natural features show as marks in crops and often mask or hinder interpretation and differentiation of the buried archaeological landscape.
- S9 This assessment has added features to the known resource in this area. These new data have been derived from vertical aerial photographs which have not been previously interpreted in detail for archaeological purposes.

1 INTRODUCTION

- 1.1 This interpretation of aerial photographs was prepared by Chris Cox at Air Photo Services Ltd on behalf of Hyder Consulting (UK) Ltd., in September and October 2010.
- 1.2 The work was commissioned to support the assessment of the potential impact of a proposed development on cultural heritage assets within the site.
- 1.3 The object of this aerial photographic interpretation was to provide information on the location and nature of any archaeological features or areas of archaeological potential visible on existing aerial photographs within the study area and its environs.
- 1.4 It is important to note that aerial photographs usually only show part of the horizontal and vertical extent of buried features. Their capacity to reveal features as vegetation marks, soil marks or upstanding features depends upon a number of environmental and agricultural factors prevalent at the time of photographic survey. The appearance of marks in crops over buried features is also governed by a complex interaction of land use, soil type, weather and other factors (Riley 1980, Wilson 1982 and 2000). Natural features also show as detailed marks in crops and soils where differences in the depth and composition of the soils are created by anomalies in the underlying rocks. Limestone areas such as the study area often exhibit very complex evidence for geological cracks and anomalies. This area contains extensive striations, pits, cracks and very dense and complex 'patterned ground' which shows as crop marks (Stephens, 1990, 114 – 124; Wilson 1982, 143 – 155 (and 2000 2nd Ed)).
- 1.5 Air Photo Interpretation (API) data thus acts as a starting point for ground-based investigations, which may reveal further details of the date and nature of the deposits which are initially identified from the air.

2 THE STUDY AREA

Location

- 2.1 The site is located to the north-west of Bicester in Oxfordshire, UK and is centred at NGR SP 565 240. The site boundary contains a separately defined area, which is referred to in this report as 'The Exemplar Site'.
- 2.2 **Plan 1 (0802/01)** shows the location of the Entire Site, which includes the Exemplar Site, its immediate environs, and the archaeological features which were recorded from aerial photographs during this assessment.
- 2.3 The whole site and the Exemplar Site comprise agricultural land with a small proportion of woodland and hedgerows.
- 2.4 The site has been observed on aerial photographs under intense arable cultivation (bare soil, growing crops and ripe crops) with some smaller areas under grass, on aerial photographs taken between the 1940s and the present day.

Geology and Soils

- 2.5 The study area lies on limestone substrates, which are particularly conducive to the formation of marks in crops over more humic, moisture retentive, buried features. These substrates give rise to well drained calcareous soils which are conducive to the formation of marks in vegetation and crops in times of drought over the sites of buried features. These soils are equally suitable for the cultivation of cereals or pasture and were attractive to past settlers due to the well drained soil and fertile environment.
- 2.6 The soil in the site is classified by the Soil Survey of England and Wales (SSEW 1983) as the Aberford type soil association (511a).

Archaeology

- 2.7 The boundary of the whole site contains recorded archaeological assets which comprise a buried eroded ring ditch (OHER 13907) and curvilinear and rectilinear enclosures (OHER 15958). There is also recorded evidence for prehistoric, Iron Age, Romano-British, Medieval, Post-Medieval and Modern military sites in the immediate environs. The Exemplar Site does not contain any previously recorded archaeological features. There are also built heritage assets (OHER 18643) within the site and its environs, and the site lies to the immediate north of Bignall House and its gardens.
- 2.8 This assessment aimed to identify and clarify the nature and extent of features visible on aerial photographs within the site and the Exemplar Site.

3 ARCHAEOLOGY FROM AERIAL PHOTOGRAPHS

The Role of Aerial Photographic Interpretation

- 3.1 Air photo interpretation provides an overview of landscape history and changes in land use. It provides informed guidance for subsequent desk and ground-based investigations and complements cartographic and documentary research.
- 3.2 Some information gained from aerial photographs cannot easily be detected by other means. Aerial photographs provide a chronologically documented and seasonal overview of a landscape and sites and features within it. The interpretation of contemporary and archival aerial photographs is thus an important component of multi-disciplinary archaeological investigation.
- 3.3 Interpretation of aerial photographs allows the accurate mapping of archaeological sites or natural features recorded as crop, grass or vegetation marks (caused by the differential growth of plants over buried features); soil marks (caused by differences in soil colour over ploughed buried features) and shadows cast by upstanding earthworks and features seen in relief.

Limitations of the Data

- 3.4 Aerial photographic evidence is limited by seasonal, agricultural, meteorological and environmental factors which affect the extent to which either buried or upstanding archaeological features can be detected. It is thus advantageous to examine a range of photos taken under a variety of environmental conditions in order to build up a comprehensive interpretation of the archaeological landscape. The visibility of archaeological features may differ from year to year, and be obscured by differential depths of soil or differing types of vegetation. Individual photographs often record only a small percentage of the actual extent of buried or upstanding features.

Relevance in this case

- 3.5 In this case, the range of aerial photographs available for interpretation was comprehensive, both seasonally and chronologically. It is obvious from the range of available aerial images, which date from 1930 to the present day that the area has been surveyed and examined from the air by specialist archaeological surveyors, and also covered in full over many decades by vertical aerial surveys for non-archaeological purposes. In addition to the data already recorded by the EH NMR and the OHER, further sites have been seen and recorded within the site from aerial photographs during this assessment.

4 AERIAL PHOTOGRAPHS: Types and Sources

Types

- 4.1 Two types of aerial photograph are used for archaeological interpretation. Vertical aerial photographs are taken for general-purpose survey using a camera mounted inside a modified aircraft. The aircraft is flown on a pre-planned set of overlapping flight-lines which cover the survey area completely. The camera points straight towards the ground. The vertical viewpoint provides aerial photographic coverage from a fixed scale and constant 180° angles at the centre of each frame. The overlap between the areas covered by each consecutive frame is usually 60%. This overlap between frames enables the photo interpreter to study each pair of vertical photos under a stereoscope.
- 4.2 The stereoscope combines the two images to allow the interpreter to see one three-dimensional image of the ground surface. Vertical aerial photographs carry inherent distortions introduced by variations in perspective and ground height, but are essentially 'map-like' in appearance. They are generally taken for non-archaeological, civil and military purposes and form the basic data from which most modern maps are compiled. Vertical aerial photographs are a very useful source of archaeological data, particularly in areas where features survive as earthworks.
- 4.3 Oblique aerial photographs are taken using a hand held camera by an aerial archaeologist to portray features which have been identified during specialist survey. These photos are extremely useful, but contain inherent perspective distortions, which must be accounted for in rectification and mapping procedures. In this case, both vertical aerial photographs, and specialist obliques which are taken with a hand held camera by an archaeological surveyor, were available for interpretation.

Sources of Data

English Heritage National Monuments Record (EH NMR)

- 4.4 National Monuments Record (NMR) Centre, English Heritage, Kemble Drive, Swindon, Coversearch number 53316. Vertical and oblique photographs dating from 1930 to 2006 provided a primary source of data for the assessment. Photographs held at OHER were also consulted.
- 4.5 The ortho-rectified mosaics of vertical aerial photographs provided by Bluesky, the GeoInformation Group, Getmapping plc and TeleAtlas were consulted online for this assessment in September 2010 and included all available timelines.

5 INTERPRETATION AND MAPPING METHODOLOGY

- 5.1 All photographs were interpreted in accordance with the client's brief for works at this site and Palmer & Cox (1993).
- 5.2 The photographs were closely examined, under 1.5x and 4x magnification and interpreted with the aid of a mirror stereoscope where appropriate, or in detail on screen when consulted as digital files.
- 5.3 Photographs which were selected for mapping were scanned and ortho-rectified using AirPhoto 3.41 software to a 1:2500 scale surveyed OS digital map base. The resulting rectified files were then imported to AutoCad as geo-tiff files and the accurate positions of all visible archaeological features were mapped as a separate digital layer.
- 5.4 All control point mismatch values between the map and the photographs fell below 2.0 m, which lies within the stated accuracy of OS mapping at 1:2500 scale.
- 5.5 Printed maps are presently scaled to fit the appropriate paper size for illustration. They are also provided digitally for accurate scaling as required by the client, for import to a Geographic Information System (GIS) in Drawing Exchange Format release 12 (DXF 12).

6 RESULTS

6.1 Over the entire site, fifteen individual areas were identified which contain archaeological features which are visible on aerial photographs.

6.2 These are illustrated on **Plans 2 - 4** (0802/02, 03 & 06) and summarised in Table 1 below.

AP Site No	NGR	Description	OHER Reference
AP 1	SP 564 253	Upstanding and eroded Medieval fields (ridge and furrow) and buried former boundary ditches.	None
AP 2	SP 569 257	Upstanding Medieval fields (ridge and furrow) and headland.	None
AP 3	SP 573 248	Complex and extensive ditches pits and enclosures which show as marks in crops.	15958
AP 4	SP 573 244	Unusual curvilinear shaped probable cut feature which shows as a crop mark. The origin of this is uncertain.	None
AP 5	SP 573 244	Slightly upstanding ridges in the floodplain of a small watercourse which may be either traces of Post Medieval water meadows or Medieval cultivation or drainage.	None
AP 6	SP 577 253	Buried sub-rectangular ditched enclosure, pits and ditches which show as marks in crops.	None
AP 7	SP 584 255	Upstanding remains of a Deserted Medieval Village (DMV) at Caversfield, outside of the Site.	Outside the study area
AP 8	SP 568 245	Eroded Medieval fields (ridge and furrow) and cut feature.	None

AP 9	SP 565 242	Buried ditches and possible enclosures centred upon Aldershot Farm.	None
AP 10	SP 558 240	Eroded and slightly upstanding Medieval fields (ridge and furrow).	None
AP 11	SP 560 238	Buried ditches, possible enclosures and a ring ditch (possible eroded and buried Bronze Age funerary site).	13907
AP 12	SP 551 233	Possible buried sinuous ditches and small possible enclosure which lies just outside the Site boundary.	None
AP 13	SP 565 233	Possible buried ditched enclosure and sinuous ditches.	None
AP 14	SP 564 230	Possible ditches. This site is not easily distinguished from the many complex natural features in the area, but may link with previously recorded sites which now lie beneath houses in the adjacent area to the west.	None
AP 15	SP 562 230	Buried ditches and enclosures.	None

6.3 These features are detailed in the following gazetteer of sites which concords the findings of this assessment with the Oxfordshire Heritage Environment Record (OHER) and locates each site to a central National Grid Reference (NGR).

Gazetteer of Sites recorded from aerial photographs

AP Site	AP 1
NGR	SP 564 253
Plan	Plan 2 (0802/02)
Location	Bucknell
Site type	Medieval fields and Post Medieval boundaries
OHER	NA
Photo references	SP5525/4 & 5, 73 252 074 – 075, OS 6642 034 -035

Description

Upstanding and eroded Medieval fields and a visible headland. Some photos show traces of Modern boundaries as crop marked ditches. These features traverse the site boundary at Bucknell.

AP Site	AP 2
NGR	SP 569 257
Plan	Plan 2 (0802/02)
Location	Manor Farm
Site type	Medieval fields and a Post Medieval boundary ditch
OHER	NA
Photo references	73 252 074 – 075, OS 6642 034 -035 & Google Earth (1st October 2010)

Description

Upstanding and eroded Medieval fields and a boundary ditch which traverse the site boundary to the east of Bucknell.

AP Site	AP 3
NGR	SP 573 248
Plan	Plan 2 (0802/02)
Location	Hawkswell Farm
Site type	Probably Prehistoric or Romano-British settlement
OHER	15958
Photo references	SP 5724/1-2, F2 542 RAF 0007

Description

A complex and extensive area of buried ditches, pits, probable tracks and enclosures. These features show as distinctive marks in crops at Hawkswell Farm. They are partially masked, but not confused with, a series of very clear crop marks which, in common with all parts of this Site, show the patterns of jointing in the limestone and other periglacial features.

AP Site	AP 4
NGR	SP 574 244
Plan	Plan 2 (0802/02)
Location	Hawkswell Farm
Site type	Possible agricultural feature
OHER	NA
Photo references	SP5724/5-8 & 9-11

Description

This feature is a rather unusual curvilinear possible cut feature which shows as a mark in growing crops. It was recorded on one occasion only, and its shape is not consistent with any previously recorded archaeological feature. It has therefore been mapped as a possible feature, and is possibly the result of an agricultural process such as accidental release of fertiliser pellets. However, this is a conjectural explanation, and its origin cannot be rigorously proven from the available aerial photographs.

AP Site	AP 5
NGR	SP 573 244
Plan	Plan 2 (0802/02)
Location	Lord's Farm
Site type	Possible water meadows
OHER	NA
Photo references	OS 70 023

Description

Slight ridges on the floodplain of a small watercourse which may be either water meadows or Medieval cultivation or drainage.

AP Site	AP 6
NGR	SP 576 254
Plan	Plan 2 (0802/02)
Location	Partially within Exemplar Site at Caversfield
Site type	Ditches and enclosure
OHER	NA
Photo references	75/312 031, 68/252 017, 94-214 005 – 007, SP 5724/1 & 2

Description

The Exemplar Site, which lies within the Entire Site, contains evidence for fragmentary ditches and possible ditched enclosures at this location. These are heavily masked by natural geological features and show as marks in crops on vertical aerial photographs. The focus of these features is a buried ditched sub rectangular enclosure which lies to the immediate south of the Exemplar Site within the Entire Site. These features are all eroded and buried and are visible only via marks in crops where the plants grow more vigorously over the buried ditches in times of drought.

There is also a sub-rectangular area of deeper soil which may be a place where local quarrying has been undertaken for stone extraction, then filled in when worked out.

AP Site	AP 7
NGR	SP 584 255
Plan	Plan 2 (0802/02)
Location	Caversfield
Site type boundary	Deserted Medieval Village (DMV) which lies to the north of the Site
OHER	NA
Photo references	CPE UK 1897 3153

Description

A partially upstanding area of earthworks at Caversfield DMV which lies outside and to the north of the Site boundary.

AP Site	AP 8
NGR	SP 568 245
Plan	Plan 2 (0802/02)
Location	Aldershot Farm
Site type	Medieval fields and unidentified cut feature
OHER	NA
Photo references	94-214 006 and ridge and furrow on various vertical APs

Description

In common with the site and its environs, this area contains traces of heavily eroded Medieval fields and geological features. There is also an oddly shaped cut feature which is now in filled. Most small quarries in this area are sub-rectangular or square, but this feature has a number of projections. Given the proximity of a local World War 2 airbase, this may possibly have been a bombing decoy which is now in filled, but it is not visible on photographs taken immediately after the War in 1946. Its origin is therefore uncertain.

AP Site	AP 9
NGR	SP 565 242
Plan	Plan 3 (0802/03)
Location	Aldershot Farm
Site type	Ditches and possible enclosures
OHER	NA
Photo references	75 312 031

Description

A series of ditches and enclosures centre upon Aldershot Farm and are visible as crop marks. Their type or origin is uncertain but they are likely to pre-date the modern farm buildings. They are underlain by complex geological features, and are visible on vertical aerial photographs which were taken in July 1975 when the weather was very dry.

AP Site	AP 10
NGR	SP 558 240
Plan	Plan 3 (0802/03)
Location	Crowmarsh Farm
Site type	Medieval fields
OHER	NA
Photo references	Various vertical APs

Description

An area of partially eroded Medieval fields.

AP Site	AP 11
NGR	SP 560238
Plan	Plan 3 (0802/03)
Location	Himley Farm
Site type	Ditches, enclosures and possible Bronze Age funerary site
OHER	13907
Photo references	75 312 072 & 073

Description

This location contains buried ditches and pits which are visible on vertical aerial photographs as marks in crops, in addition to the underlying geological features in the area.

The site also contains a buried ring ditch, indicative of a possible eroded Bronze Age funerary site. The OHER records this feature, but the AP reference on the record cites an unrelated NMR photograph and an Aerial photograph taken by Dr K St Joseph which is held in the Cambridge University Collection. This collection is not presently accessible for consultation, and the photograph could not be located as a copy in any other archive. The position of the ring ditch is therefore derived from the OHER record, as it is not visible on any other photographs.

A circular feature, with some adjacent straight cut features was also visible at this site as a crop mark and its former function is unknown.

AP Site	AP 12
NGR	SP 551 233
Plan	Plan 3 (0802/03)
Location	West of Lovelynch House
Site type	Possible buried ditches
OHER	NA
Photo references	F21 542 RAF 0006

Description

Traces of possible sinuous ditches and a possible enclosure. These lie to the west of the site boundary, and re masked by geological features. Their origin is unknown, but they may extend into the study area to the east of Lovelynch House.

AP Site	AP 13
NGR	SP
Plan	Plan 3 (0802/03)
Location	South of Gowell Farm
Site type	Eroded Medieval fields and possible buried ditches
OHER	NA
Photo references	75 312 071, 072 & 031

Description

This area contains some very well defined crop marked buried features which may either be natural or archaeological. They cannot be well defined as either, therefore have been mapped as possible features which may require further investigation as appropriate. The area also contains some eroded traces of Medieval fields.

AP Site	AP 14
NGR	SP 564 230
Plan	Plan 3 (0802/03)
Location	North of Bignall Belt
Site type	Unknown, possible buried cut feature
OHER	NA
Photo references	75 312 071, 072 & 031

Description

This feature is of unknown origin. It may be part of the complex geological features which show as crop marks in this area. Alternatively, it may be a linking feature from buried settlement sites which now lie beneath houses in Bicester to the east of the Site to some archaeological features in the adjacent field at AP 15.

AP Site	AP 15
NGR	SP 562 230
Plan	Plan 3 (0802/03)
Location	North of Bignall Belt
Site type	Buried enclosures and ditches
OHER	NA
Photo references	75 312 071, 072 & 031

Description

A complex of very clearly defined ditches, possible double ditched boundary, track way and enclosures. These features show as well defined crop marks to the north of Bignall Park within the Site, on vertical aerial photographs which were taken during dry conditions in July 1975.

7 CONCLUSION

- 7.1 At first appraisal, this site contains evidence for only two complexes of crop marked buried archaeological features.
- 7.2 Detailed examination of vertical aerial photographs in conjunction with the evidence provided by specialist obliques has identified extensive areas of buried ditches, pits and ditched enclosures throughout the Site.
- 7.3 These features are in many cases underlain by extensive geological features which also show as crop marks. Where the two types of features cannot be distinguished, features have been mapped as possible archaeological assets.
- 7.4 Buried features which appear on aerial photographs cannot be dated from the AP sources alone, unless very typical morphologies are identified. Medieval fields have been confidently identified, alongside some Modern boundaries. Other sites may date to the Prehistoric and Roman-British periods, but no further dating evidence may be asserted from these sources.
- 7.5 **Plans 2 and 3** (0802/ 2&3) present accurately mapped interpretations of features seen on all the photographs which were used for the assessment. It is likely that the horizontal and vertical extent of all these sites will be greater than represented on the available photographs, and this should be considered when planning any intrusive investigations as appropriate to the requirements of the project.

8 CARTOGRAPHIC SOURCES AND BIBLIOGRAPHY

Soil Survey of England and Wales, **Sheet 4 Eastern England.1:250000 scale change**

Palmer R & Cox C, 1993

Uses of Aerial photography in Archaeological Evaluations IfA Technical Paper 12. IfA Reading

Riley DNR, 1980

Early Landscape from the Air. Sheffield

Stephens N (ed), 1990

Natural Landscapes of Britain from the Air Cambridge

Wilson DR 1982 and 2000

Air Photo Interpretation for Archaeologists London and 2nd Ed 2000, Stroud

APPENDIX 1

Aerial Photographs Consulted at English Heritage National Monuments Record (EH NMR)

ENGLISH HERITAGE : NATIONAL MONUMENTS RECORD
Air Photographs

Customer oblique listing - Obliques, Standard Order
Customer enquiry reference number: 53316

Photo reference (NGR and Index number)	Film and frame number	Original number	Date	Film type		Map Reference (6 figure grid ref)
SP 5525 / 4	NMR 18561 / 21		16 NOV 1999	Colour neg	35 mm	SP 559253
SP 5525 / 5	NMR 18561 / 22		16 NOV 1999	Colour neg	35 mm	SP 559253
SP 5622 / 1	CCC 8975 / 6758	SEE PRINTS	27 MAR 1930	Black& white	Unknown	SP 564229
SP 5623 / 1	CAP 8110 / 67	LN	26 APR 1953	Black& white	Unknown	SP 565235
SP 5623 / 2	CAP 8110 / 68	LN	26 APR 1953	Black& white	Unknown	SP 565235
SP 5625 / 1	NMR 18616 / 08		16 NOV 1999	Black& white	70mm,120,220	SP 561253
SP 5625 / 2	NMR 18616 / 09		16 NOV 1999	Black& white	70mm,120,220	SP 561253
SP 5625 / 3	NMR 18616 / 10		16 NOV 1999	Black& white	70mm,120,220	SP 562253
SP 5625 / 4	NMR 18616 / 11		16 NOV 1999	Black& white	70mm,120,220	SP 561254
SP 5625 / 5	NMR 18616 / 12		16 NOV 1999	Black& white	70mm,120,220	SP 561254
SP 5625 / 6	NMR 18561 / 23		16 NOV 1999	Colour neg	35 mm	SP 560254
SP 5625 / 7	NMR 18561 / 24		16 NOV 1999	Colour neg	35 mm	SP 560254
SP 5625 / 8	NMR 18561 / 25		16 NOV 1999	Colour neg	35 mm	SP 561255
SP 5724 / 1	NMR 4634 / 05		02 JUN 1990	Black& white	70mm,120,220	SP 573248

SP 5724 / 2	NMR 4634	/ 06		02 JUN 1990	Black& white	70mm,120,220	SP 573248
SP 5724 / 3	NMR 18074	/ 28		27 JUL 1998	Colour slide	35 mm	SP 579240
SP 5724 / 4	NMR 18074	/ 31		27 JUL 1998	Colour slide	35 mm	SP 578240
SP 5724 / 5	NMR 24225	/ 08		07 JUN 2006	Black& white	70mm,120,220	SP 574244
SP 5724 / 6	NMR 24225	/ 09		07 JUN 2006	Black& white	70mm,120,220	SP 574244
SP 5724 / 7	NMR 24225	/ 10		07 JUN 2006	Black& white	70mm,120,220	SP 574245
SP 5724 / 8	NMR 24225	/ 11		07 JUN 2006	Black& white	70mm,120,220	SP 574245
SP 5724 / 9	NMR 24266	/ 13		07 JUN 2006	Digital colour	35 mm	SP 573244
SP 5724 / 10	NMR 24266	/ 14		07 JUN 2006	Digital colour	35 mm	SP 573244
SP 5724 / 11	NMR 24266	/ 15		07 JUN 2006	Digital colour	35 mm	SP 574243
SP 5725 / 1	NMR 23077	/ 01		23 APR 2003	Black& white	70mm,120,220	SP 578258
SP 5725 / 2	NMR 23077	/ 02		23 APR 2003	Black& white	70mm,120,220	SP 578259
SP 5725 / 3	NMR 23077	/ 03		23 APR 2003	Black& white	70mm,120,220	SP 578258
SP 5725 / 4	NMR 23077	/ 04		23 APR 2003	Black& white	70mm,120,220	SP 578258
SP 5725 / 5	NMR 23058	/ 01		23 APR 2003	Colour neg	35 mm	SP 578259
SP 5725 / 6	NMR 23058	/ 02		23 APR 2003	Colour neg	35 mm	SP 578259
SP 5725 / 7	NMR 23058	/ 03		23 APR 2003	Colour neg	35 mm	SP 579257
SP 5725 / 8	NMR 23058	/ 04		23 APR 2003	Colour neg	35 mm	SP 579257
SP 5824 / 2	NMR 18074	/ 30		27 JUL 1998	Colour slide	35 mm	SP 580242
SP 5824 / 4	NMR 18955	/ 02		04 OCT 2000	Black& white	70mm,120,220	SP 586245
SP 5825 / 4	NMR 18835	/ 34		04 OCT 2000	Colour slide	35 mm	SP 585252

ENGLISH HERITAGE : NATIONAL MONUMENTS RECORD

Air Photographs

Full single listing - Verticals, Standard order

Customer enquiry reference: 53316

Sortie number	Library number	Camera position	Frame number	Held	Centre point	Run	Date	Sortie quality	Scale 1:	Focal length (in inches)	Film details (in inches)
RAF/106G/UK/620	1	RP	3098	P	SP 558 221	1	10 AUG 1945	A	9000	20	Black and White 8.25 x 7.5
RAF/106G/UK/620	1	RP	3099	P	SP 556 225	1	10 AUG 1945	A	9000	20	Black and White 8.25 x 7.5
RAF/106G/UK/620	1	RP	3151	P	SP 567 228	4	10 AUG 1945	A	9000	20	Black and White 8.25 x 7.5
RAF/106G/UK/620	1	RS	4097	P	SP 567 225	5	10 AUG 1945	A	9000	20	Black and White 8.25 x 7.5
RAF/106G/UK/620	1	RS	4098	P	SP 567 230	5	10 AUG 1945	A	9000	20	Black and White 8.25 x 7.5
RAF/106G/UK/620	1	RS	4099	P	SP 567 234	5	10 AUG 1945	A	9000	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3150	P	SP 549 255	4	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3151	P	SP 557 256	4	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3152	P	SP 566 257	4	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3153	P	SP 574 258	4	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5



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RAF/CPE/UK/1897	562	RP	3154	P	SP 583 259	4	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3313	P	SP 579 224	6	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3314	P	SP 573 223	6	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3315	P	SP 567 223	6	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3316	P	SP 561 223	6	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3317	P	SP 556 223	6	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3318	P	SP 550 222	6	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RP	3319	P	SP 544 222	6	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RS	4149	P	SP 545 239	10	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RS	4150	P	SP 553 240	10	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RS	4151	P	SP 561 241	10	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RS	4152	P	SP 570 242	10	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
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RAF/CPE/UK/1897	562	RS	4319	P	SP 581 241	12	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
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RAF/CPE/UK/1897	562	RS	4321	P	SP 569 240	12	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
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RAF/CPE/UK/1897	562	RS	4323	P	SP 558 239	12	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RS	4324	P	SP 553 239	12	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
RAF/CPE/UK/1897	562	RS	4325	P	SP 547 239	12	12 DEC 1946	AB	9800	20	Black and White 8.25 x 7.5
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FSL/6125	1118A	V	13022	P	SP 562 239	45	1961	A	8000	6	Black and White 9 x 9

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FSL/6125	1118A	V	13023	P	SP 554 239	45	1961	A	8000	6	Black and White 9 x 9
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RAF/542/1	2577	F21	5	P	SP 547 222	1	04 AUG 1954	A	10000	36	Black and White 8.25 x 7.5



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RAF/542/1	2577	F21	6	P	SP 545 235	1	04 AUG 1954	A	10000	36	Black and White 8.25 x 7.5
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OS/70023	10537	V	8	N	SP 587 241	2	23 MAR 1970	A	5000	12	Black and White 9 x 9
OS/70023	10537	V	16	N	SP 583 247	3	23 MAR 1970	A	5000	12	Black and White 9 x 9

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OS/70023	10537	V	17	N	SP 584 242	3	23 MAR 1970	A	5000	12	Black and White 9 x 9
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OS/66042	11626	V	5	P	SP 553 240	4	29 APR 1966	A	7500	12	Black and White 9 x 9
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OS/94214	14692	V	7	P	SP 570 245	1	28 JUN 1994	A	6500	12	Black and White 9 x 9

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OS/94214	14692	V	8	P	SP 570 240	1	28 JUN 1994	A	6500	12	Black and White 9 x 9
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Total sorties	25
Total images	183

PLANS

Plan 1 Bicester Eco Town PART 1: The Entire Site
Location of the Study Area

0802/01 October 2010 CC

Plan 2 Bicester Eco Town PART 1: The Entire Site
Location of sites identified from aerial photographs in the southwest Sector

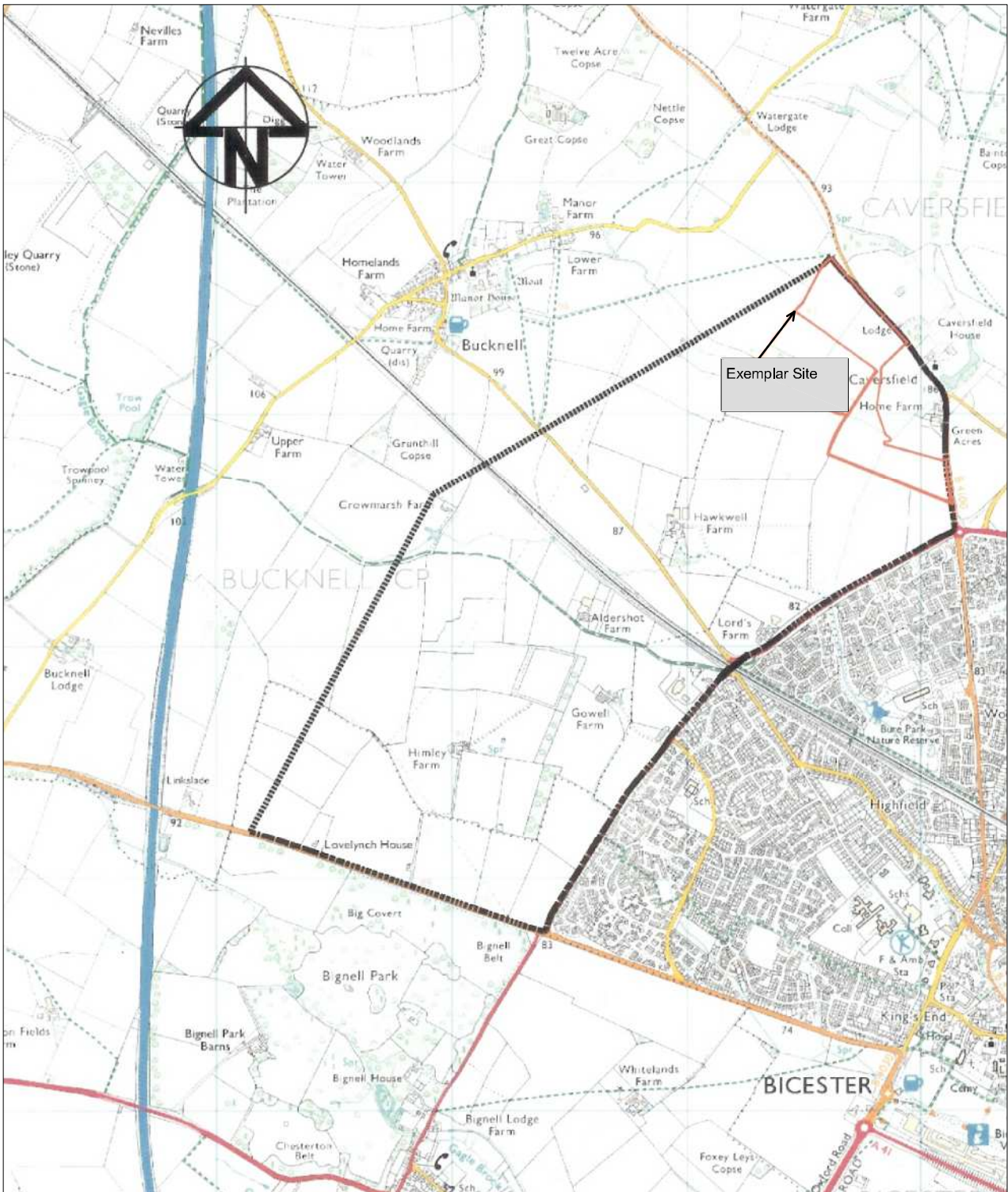
0802/02 October 2010 CC

Plan 3 Bicester Eco Town PART 1: The Entire Site
Location of sites identified from aerial photographs in the northwest Sector

0802/03 October 2010 CC

Plan 4 Bicester Eco Town PART 1: The Entire Site
Overview of all sites identified from aerial photographs

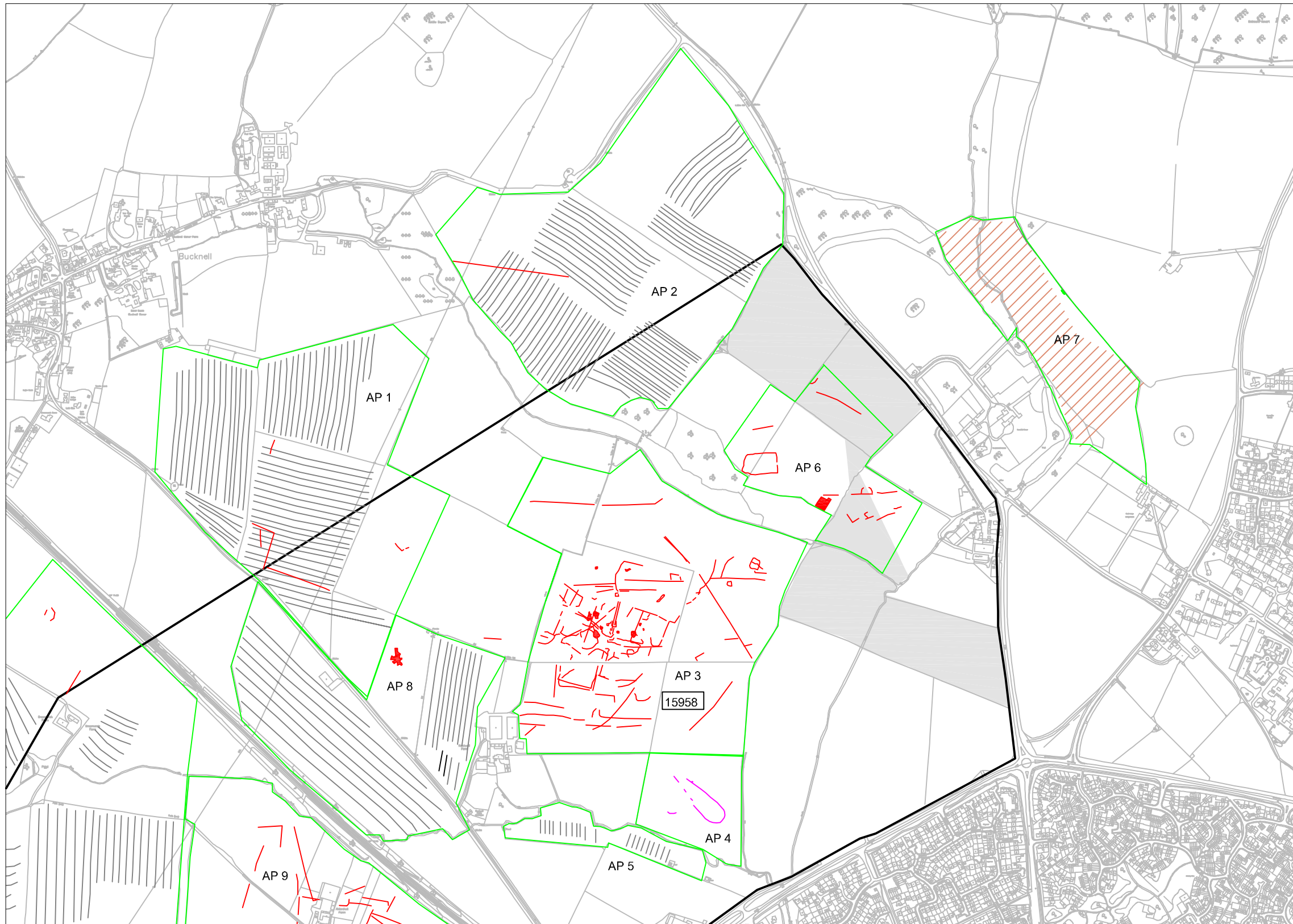
0802/06 October 2010 CC



Drawing Title | PLAN 1 Bicester Eco Town PART 1: The Entire Site
Location of the Study Area



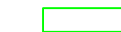




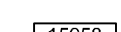
Client | Hyder Consulting (UK) Ltd
 Project | Bicester Eco Town
 Plan no | 0802/01
 Scale | NA
 Date | 10 2010 cc

Air Photo Services Ltd www.airphotoservices.co.uk



Drawing Title | **PLAN 2 Bicester Eco Town PART 1: The Entire Site**
Sites identified from aerial photographs in the north west sector

Client | Hyder Consulting (UK) Ltd
Project | Bicester Eco Town PART 1
Plan no | 0802/02
Scale | Printed to fit A3, use GIS file for accurate scaling
Date | 10 2010 cc

-  The site boundary
-  The Exemplar Site
-  AP site polygons
- AP 5** Sites recorded from aerial photographs
-  Buried features which show as marks in crops
-  Possible archaeological features which show as marks in crops
-  Areas of Medieval ploughing (ridge and furrow)
-  Deserted Medieval Village (DMV) at Caversfield
-  OHER numbers