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Report Ref: EMS-680486_894399
Grid Ref: 563228, 189099

Map Name: National Grid

Map date: 1976-1977

Scale: 1:10,000

Printed at: 1:10,000



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Surveyed 1969
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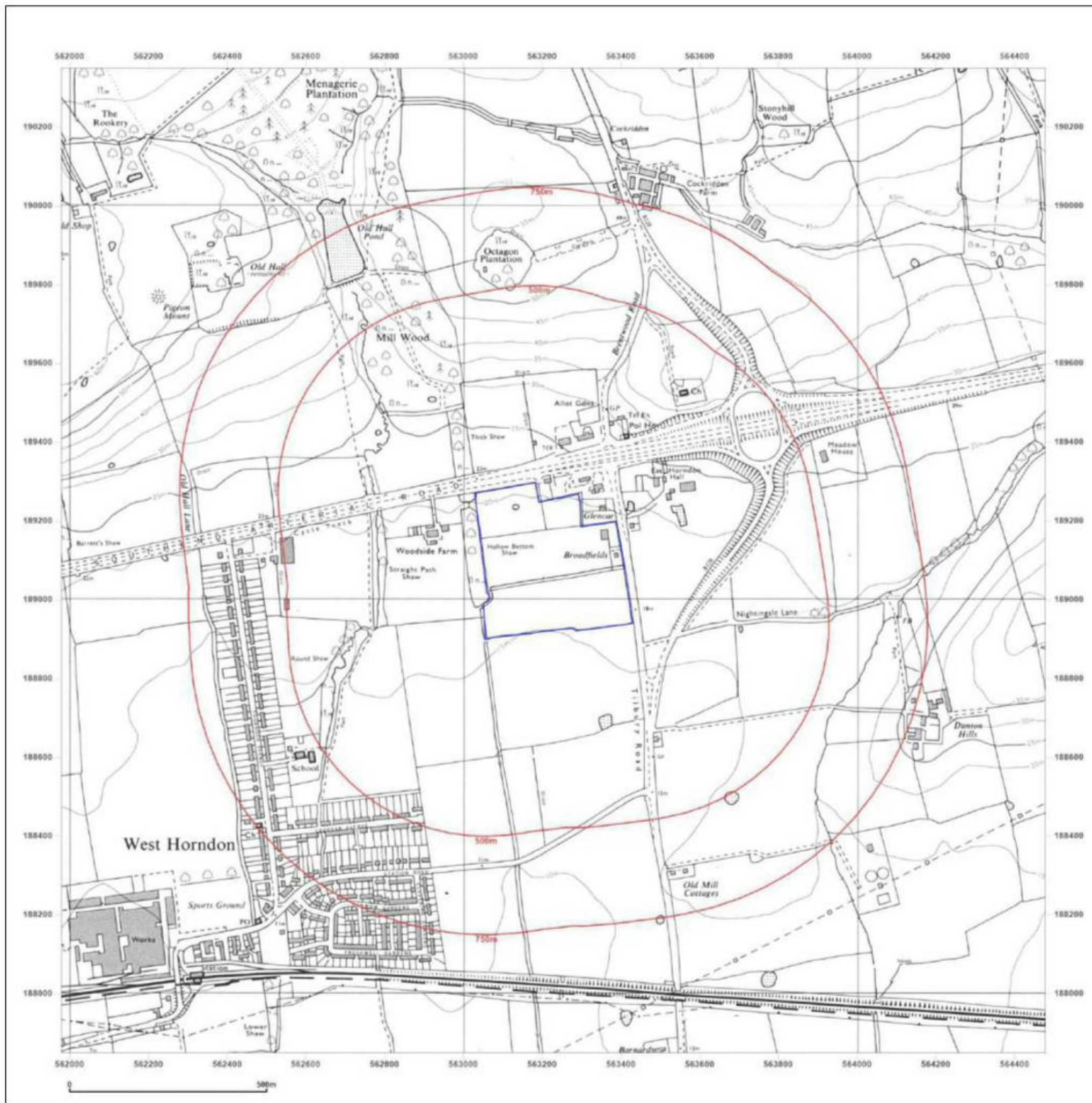


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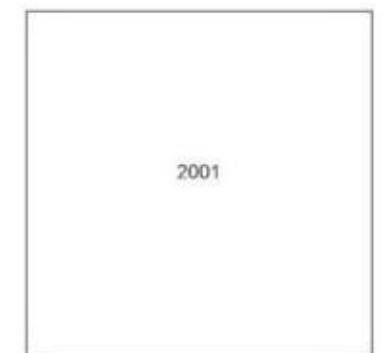
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Grid Ref: 563228, 189099

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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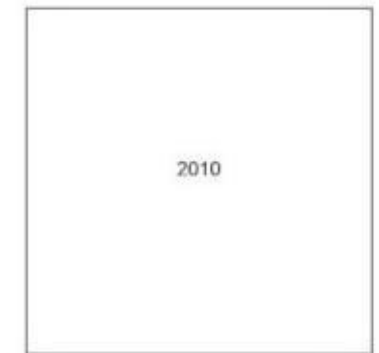
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Map Name: National Grid

Map date: 2010

Scale: 1:10,000

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 Report Ref: EMS-680486_894399
 Grid Ref: 563228, 189099

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

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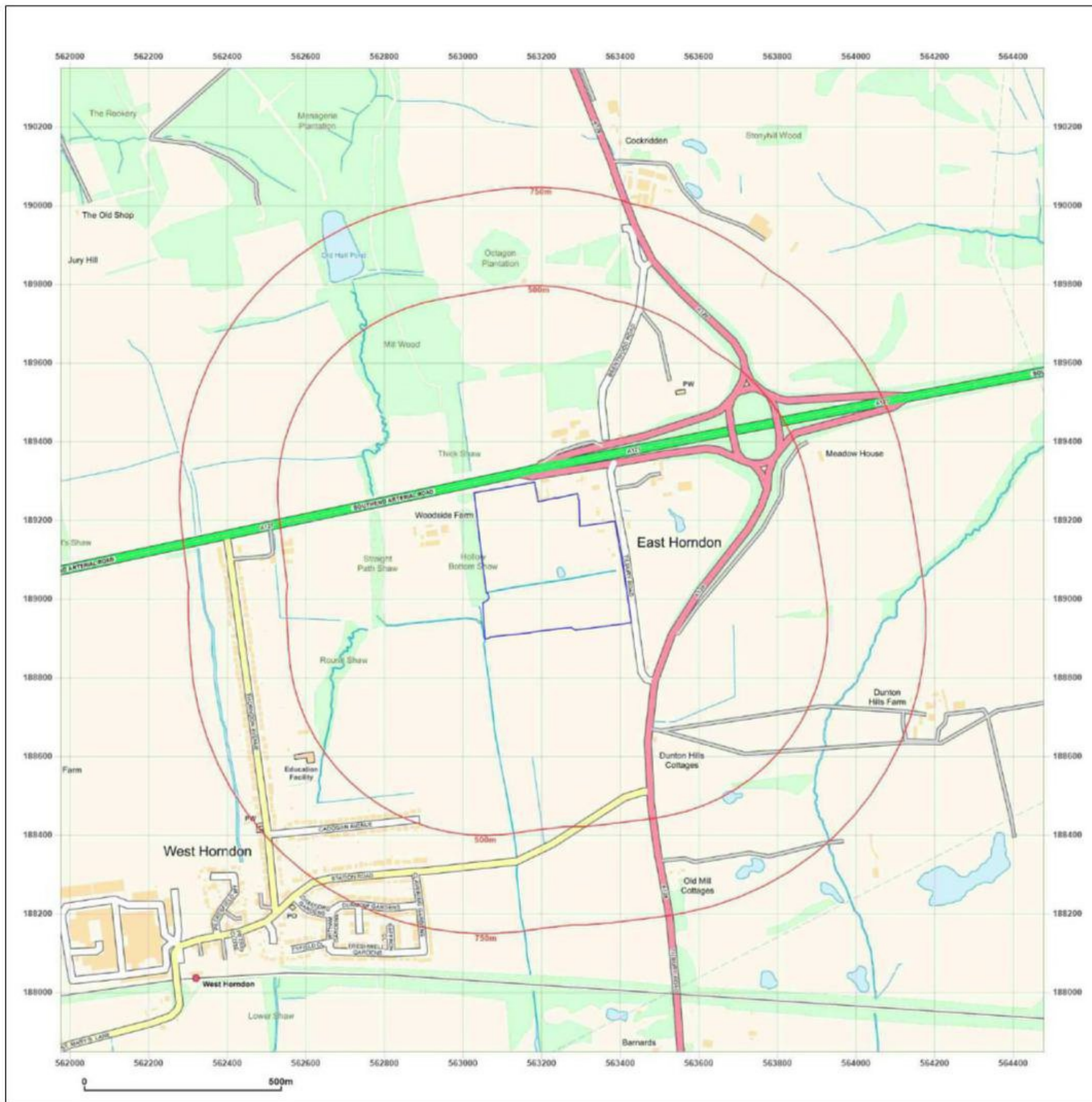


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County Series 1:2,500 scale

GENERAL FEATURES

ABBREVIATIONS

△ Trigonometrical Station	St Station
207 △ Altitude at Trigonometrical Station	Tn Trough
BM 225 8 9 Bench Mark	Sp Spring
SL Surface Level	W Well
△ Permanent Traversing Station	M.R. Mooring Ring
Antiquities (see 4)	M.P. Mooring Post
	B.B. Boundary Stone
	B.P. Boundary Post

Arrow denotes flow of water

ROADS

RAILWAYS

ABBREVIATIONS

△ Trigonometrical Station	St Station
207 △ Altitude at Trigonometrical Station	Tn Trough
BM 225 8 9 Bench Mark	Sp Spring
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Antiquities (see 4)	M.P. Mooring Post
	B.B. Boundary Stone
	B.P. Boundary Post

Arrow denotes flow of water

National Grid 1:2,500 / 1:1,250 scale

GENERAL FEATURES

BOUNDARIES

England & Wales

- County Boundary (geographical)
- County & Civil Parish Boundary coterminous
- Admin County or County Borough Boundary
- London Borough Boundary
- County Districts Boundaries based on civil parish

England, Wales & Scotland

- Civil Parish Boundary
- Parish & Ward Boundaries based on civil parish
- Parish & Ward Boundaries not based on civil parish

Scotland

- County Boundary (geographical)
- County Council Boundary
- County of the City Boundary
- Burgh Boundary
- Dist. Bdy. District Council Boundary

* Not with parish † Coincident with parish

ABBREVIATIONS

B.H. Beer House	F.St. Fire Station	M.P.U. Mail Pick-up	S.L. Signal Light
B.M. Bench Mark	G.P. Guide Post	M.S. Mile Stone	Sl. Sluice
B.P. Boundary Post	G.V.C. Gas Valve Compound	N.T. National Trust	S.P. Signal Post
B.S. Boundary Stone	H. Hydrant or Hydraulic	N.T.L. Normal Tidal Limits	Sp. Spring
C. Crane	Is. Hut	N.T.S. National Trust for Scotland	S.S. Signal Station
C.H. Club House	L.B. Letter Box	P. Pillar, Pole or Post	T.C.B. Telephone Call Box
Chy. Chimney	L.B. Sta. Lighthouse	P.C. Public Conveniences	T.C.P. Telephone Call Post
Cn. Captain	L.C. Level Crossing	P.C.B. Police Call Box	Tn. Tann or Trench
D.Pn. Drinking Fountain	L.G. Leading Gauge	P.H. Public House	Tr. Trough
Dk. Dock	L.H. Light House	P.O. Post Office	Trs. Traversing Station
E.P. Electricity Pylon or Post	L.T. Lighthouse	Pp. Farm	W. Well
E.T.L. Electricity Transmission Line	M. Mass	P.T.P. Police Telephone Pylon	W.B. Weighbridge
F.A. Fire Alarm	M.H.W. Mean High Water	Rat. Reservoir	W.P. Wind Pump
F.A.P. Fire Alarm Pillar	M.H.W.S. Mean High Water Springs	R.H. Road House	W.S. Waste
F.B. Filter Bed, Foot Bridge	M.L.W. Mean Low Water	R.P. Revision Point	W.P. Water Pylon
F.B.M. Fundamental Bench Mark	M.L.W.S. Mean Low Water Springs	S. Stone	W.T. Water Tap
F.S. Flagstaff	M.P. Pile or Mooring Post	S.B. Signal Box	



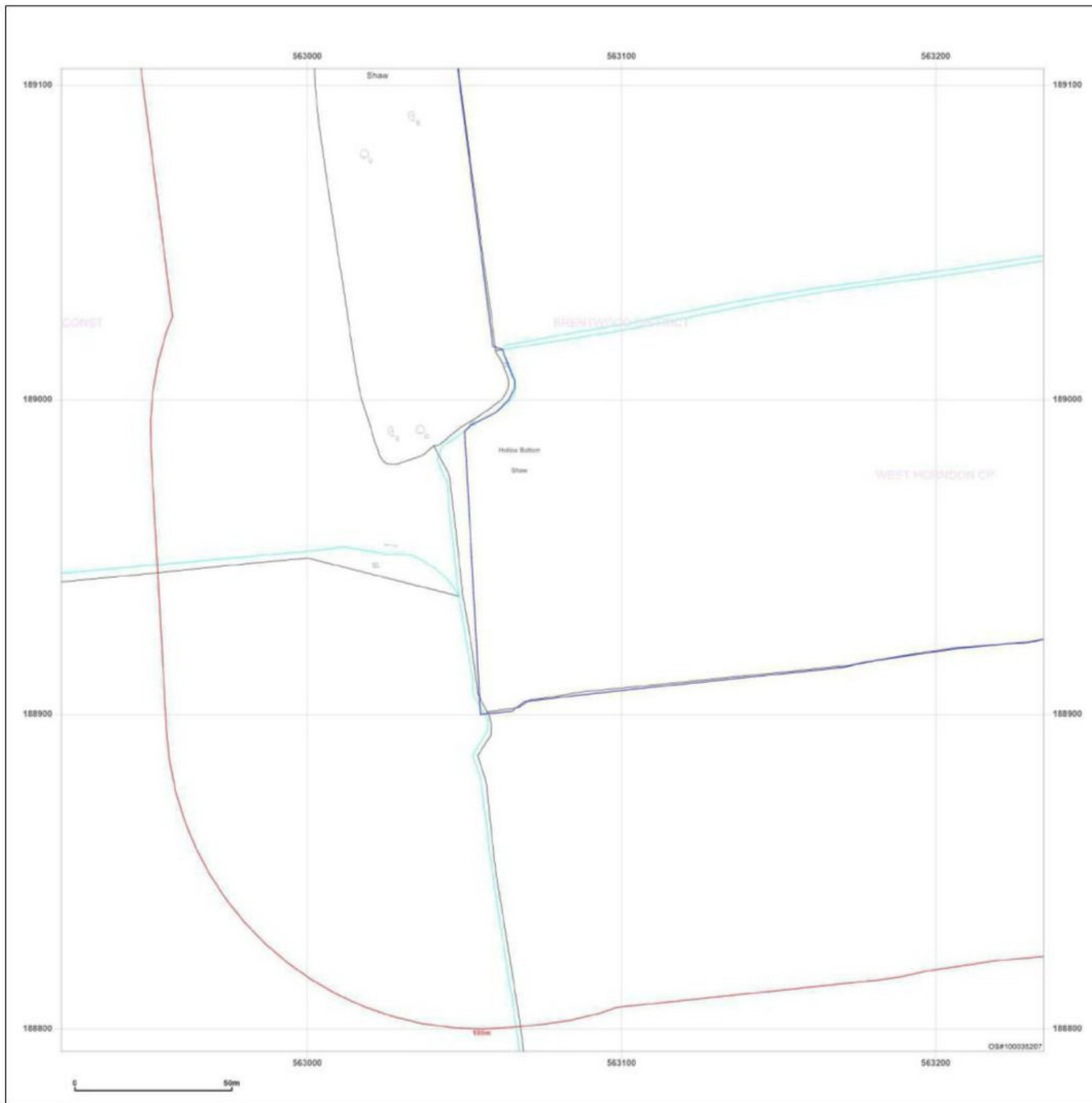
Historical Map Pack Legend

County Series 1:1,250 scale ~ County Series & National Grid 1:2,500 scale

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Technical Helpline:
[Redacted]
[Redacted]
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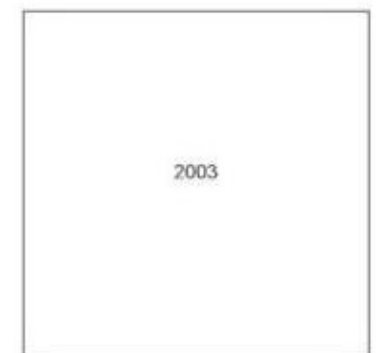
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Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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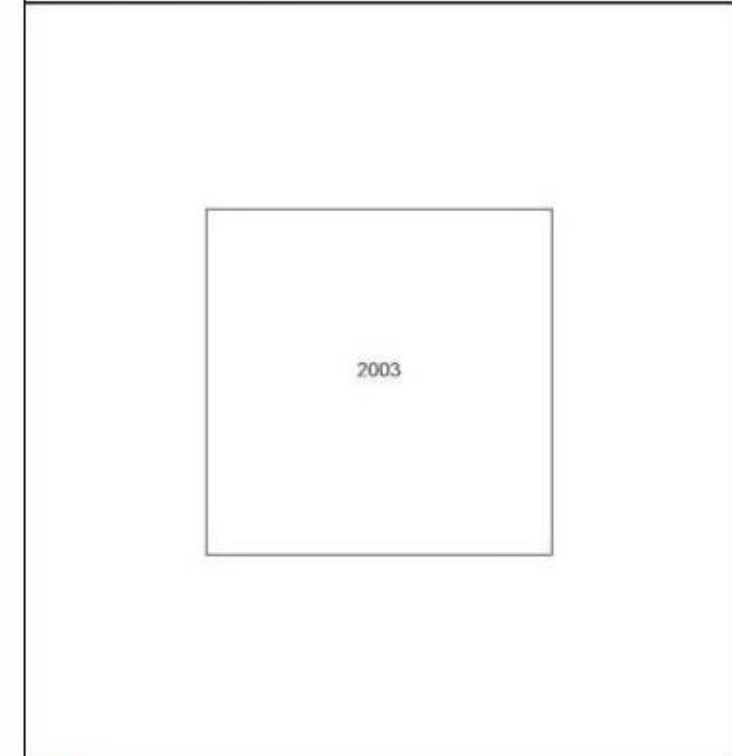
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Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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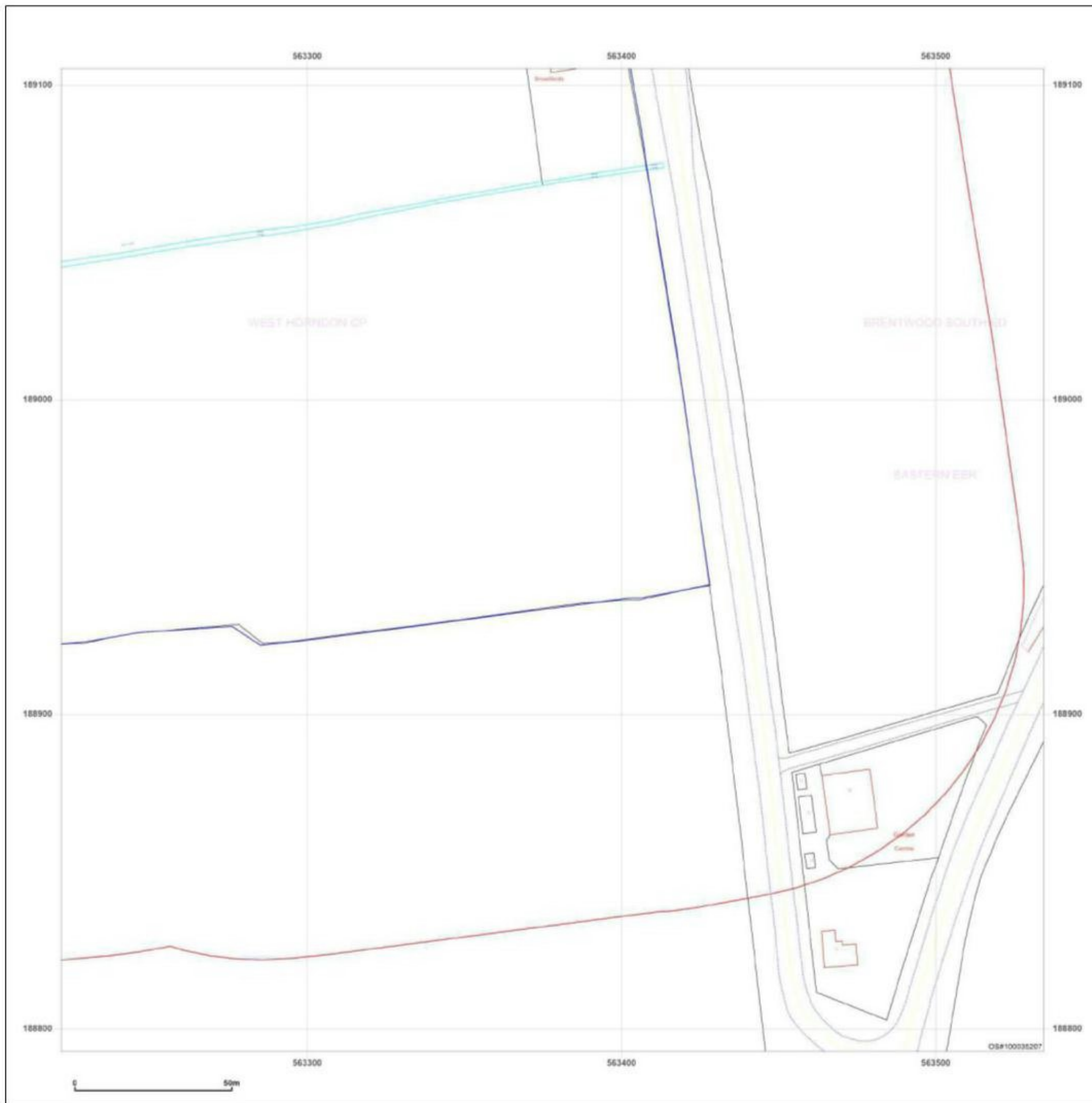


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Site Details:

Client Ref: EMS_680486_894399
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 Grid Ref: 563378, 188949

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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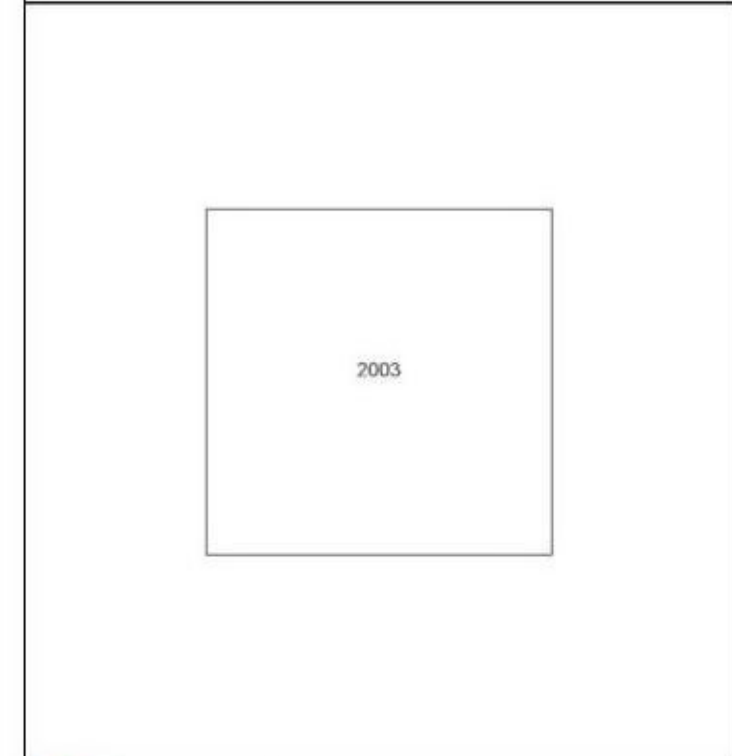
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Map date: 2003

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Landline Scale Grid Index

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Grid Ref: 563227, 189098

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Map date: 1868-1870

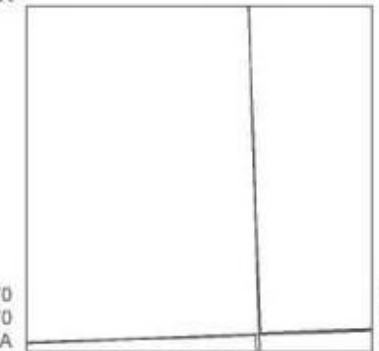
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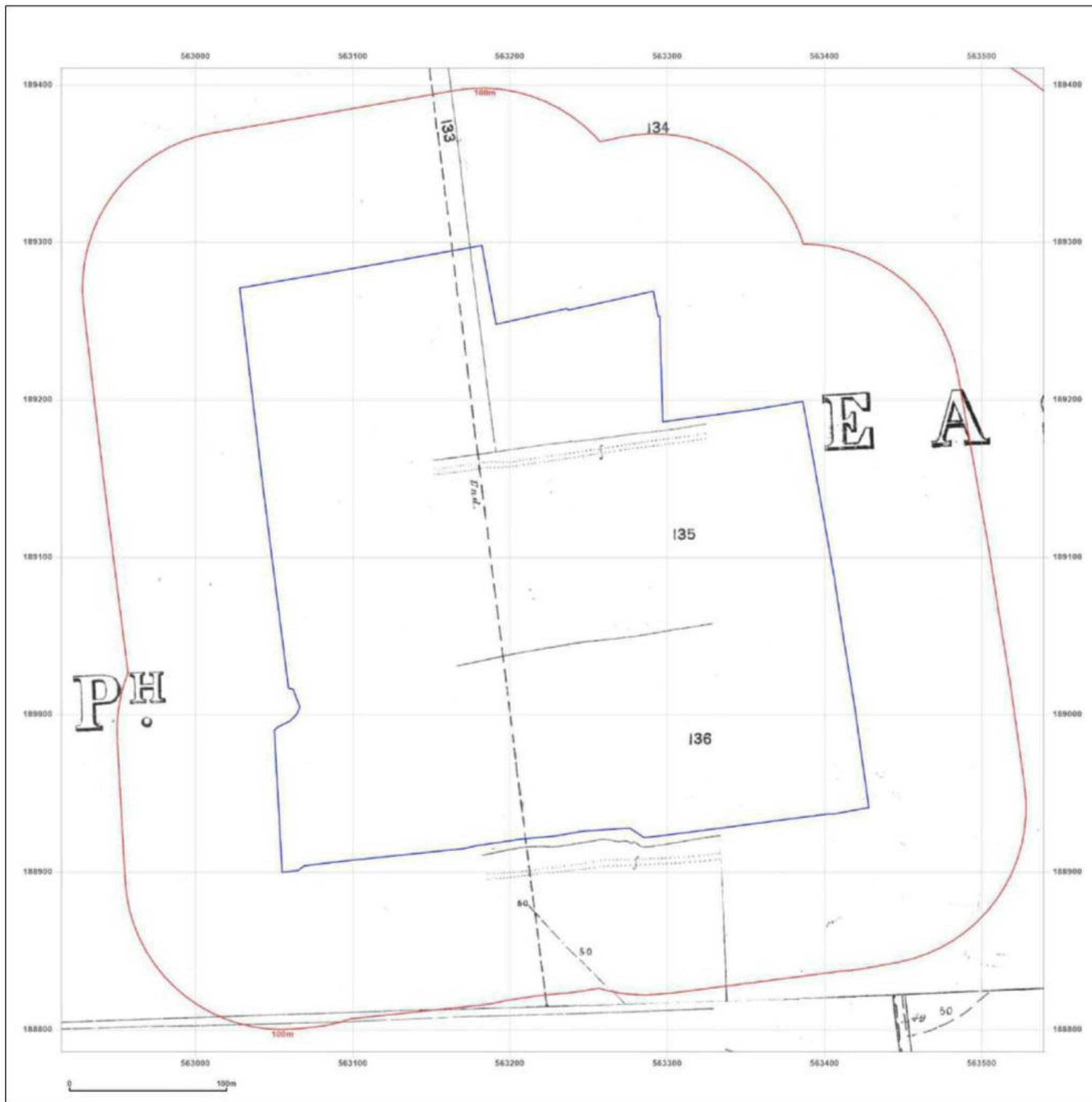


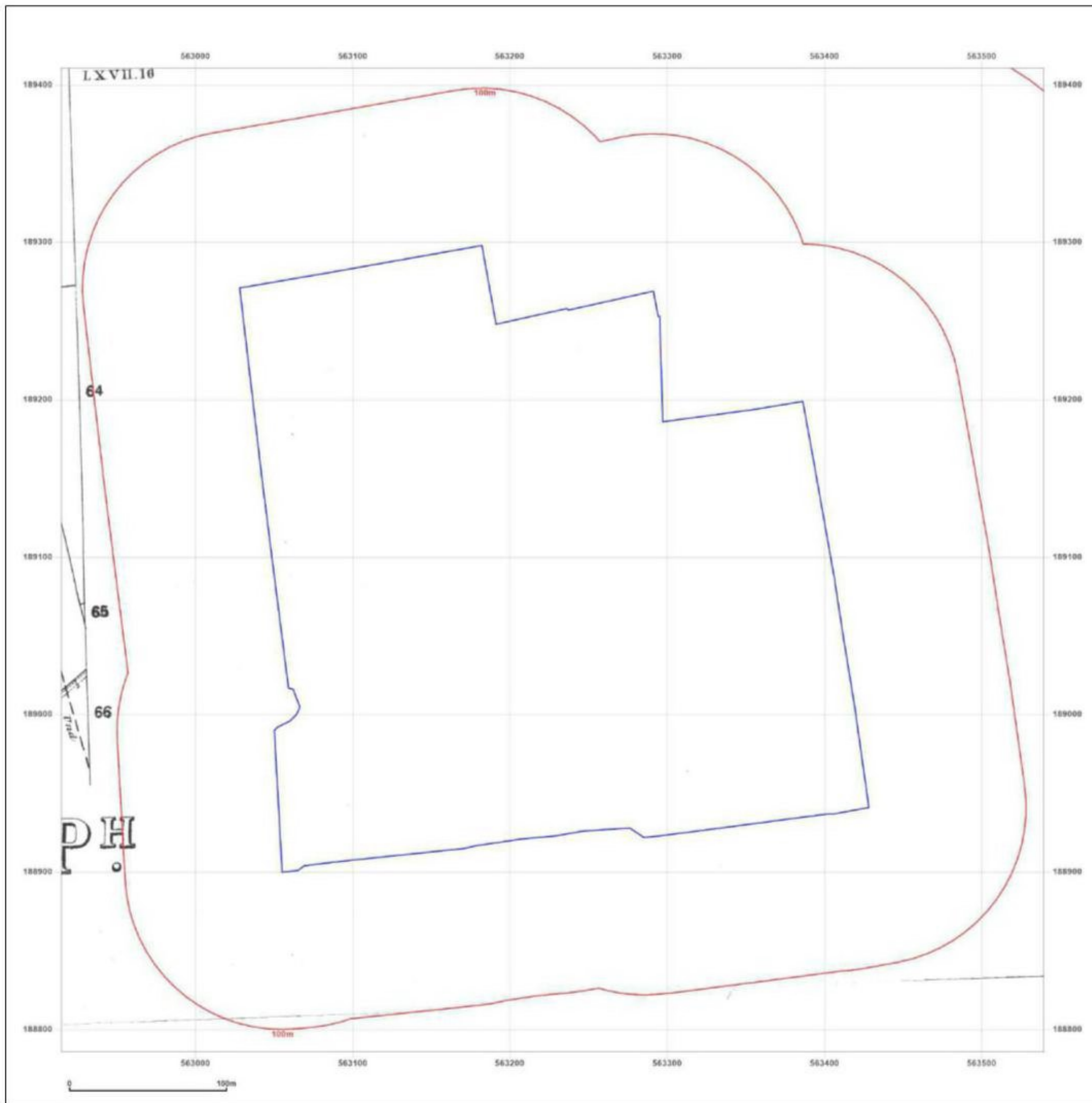
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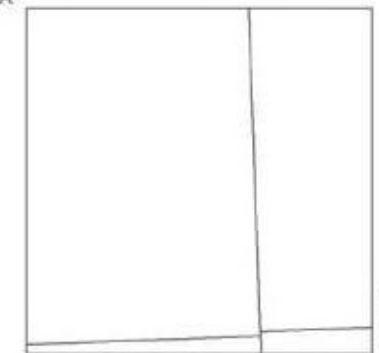
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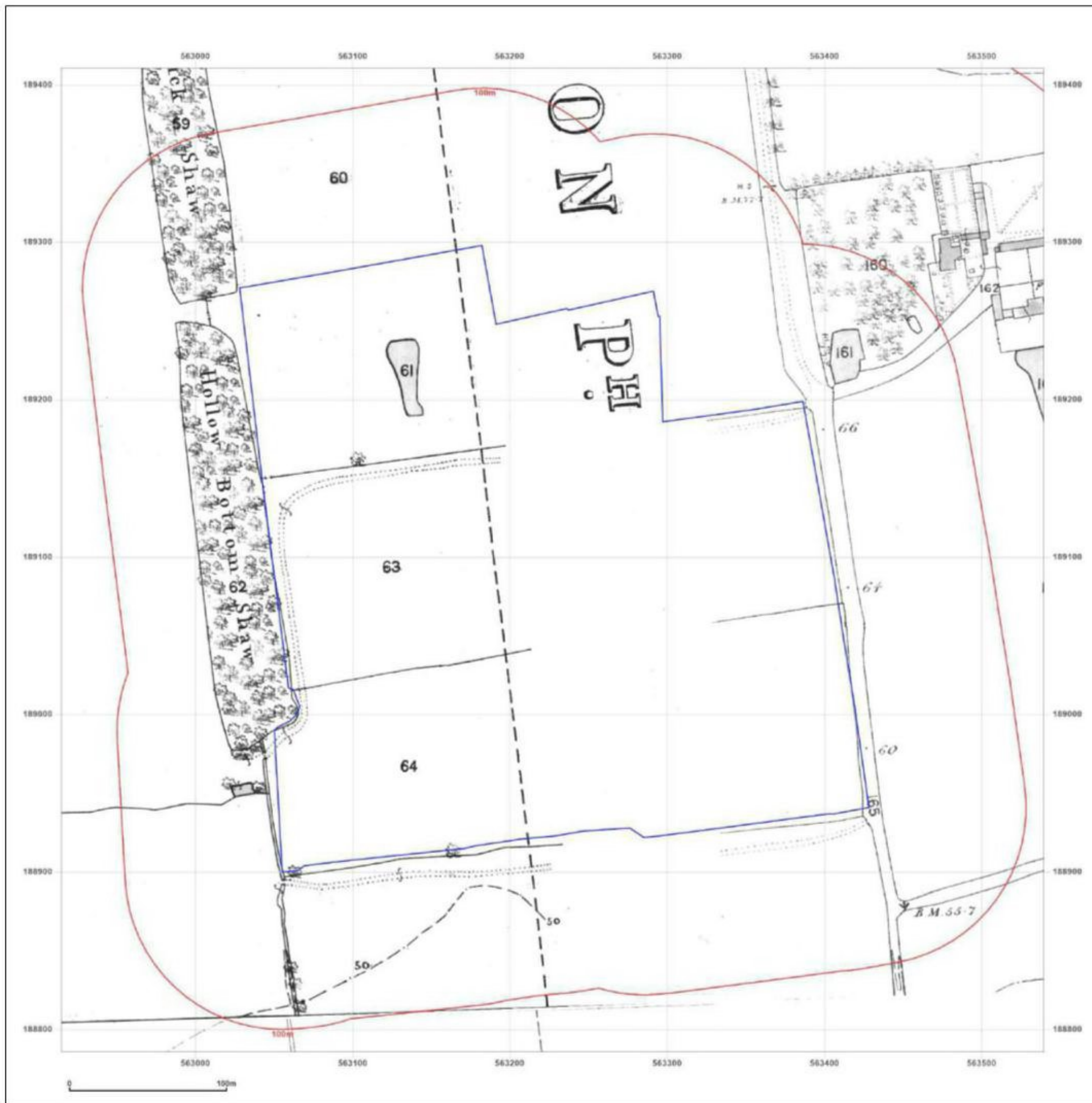


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Map date: 1868-1870

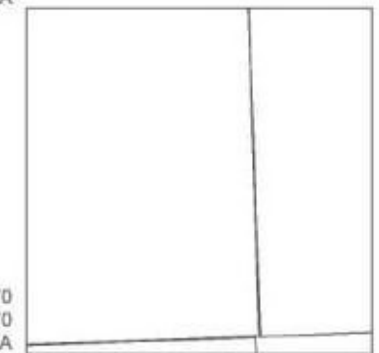
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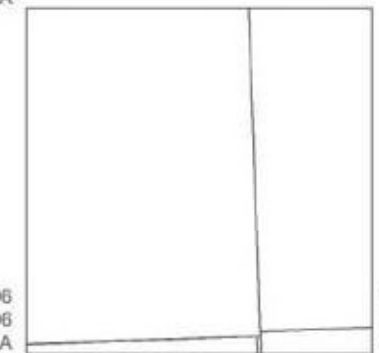
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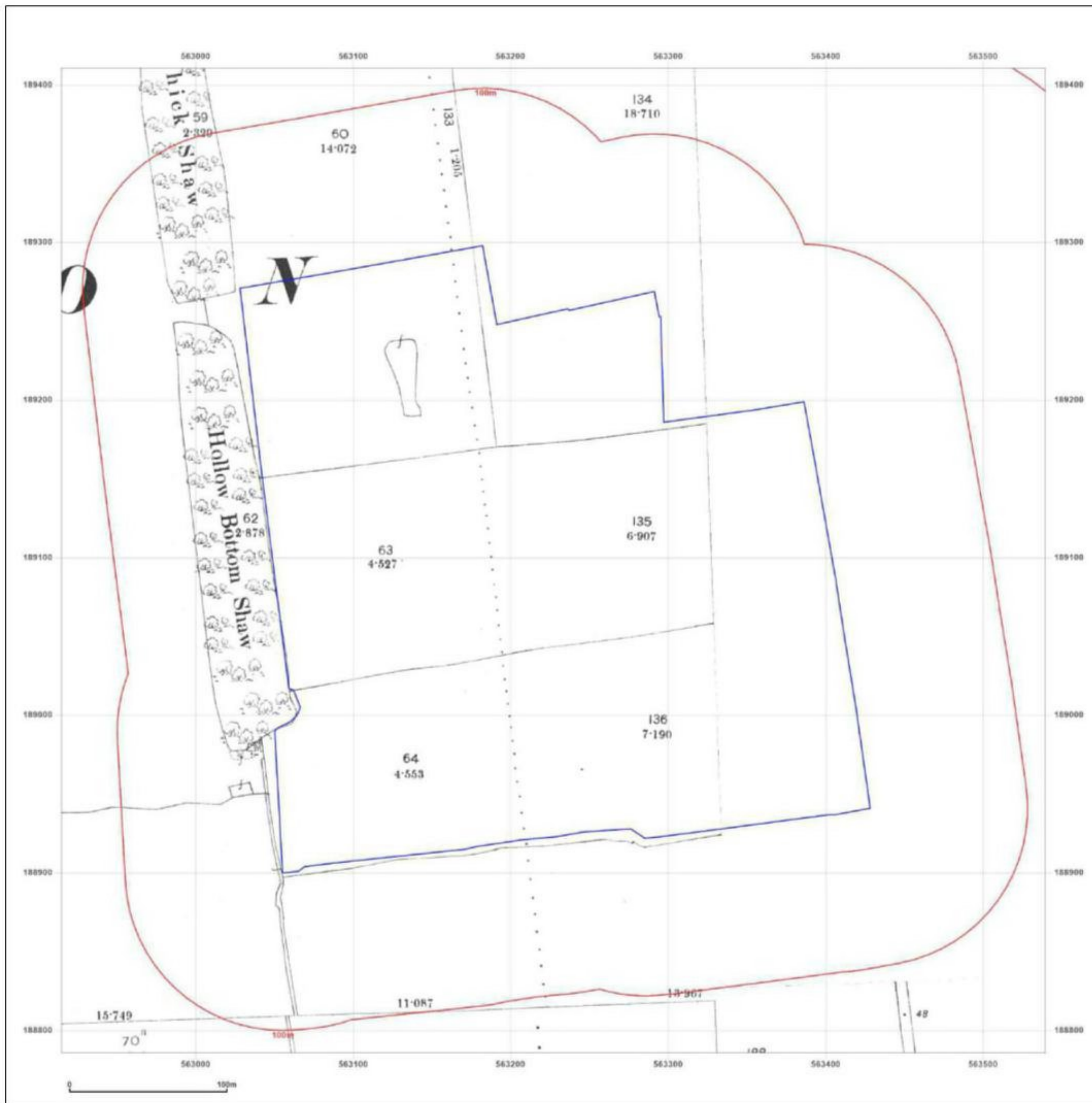


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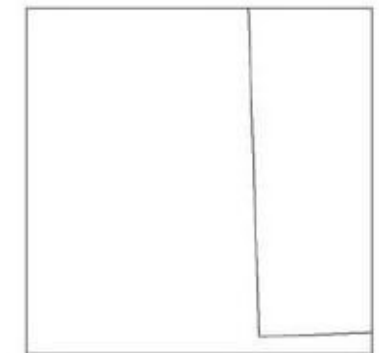
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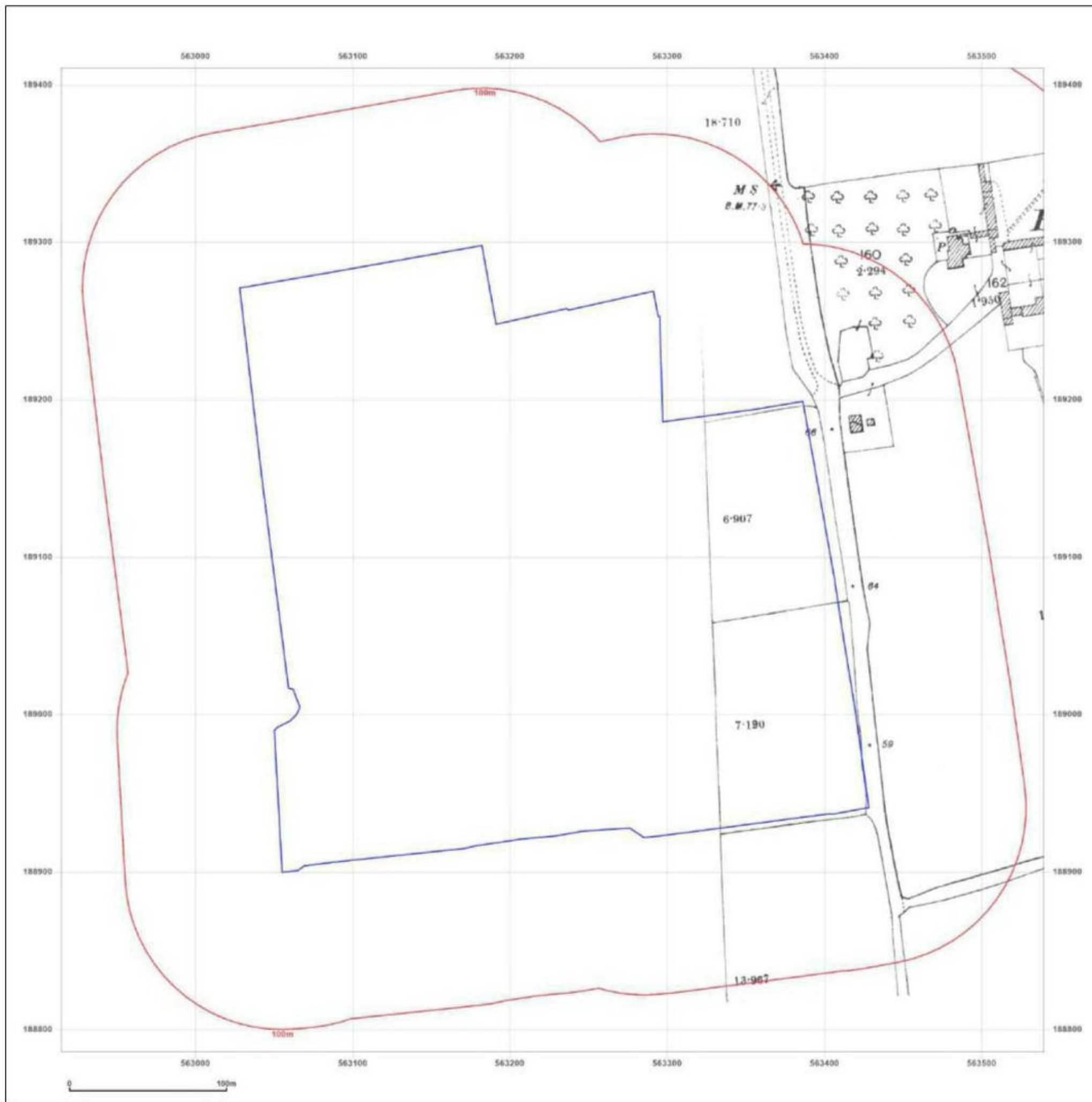


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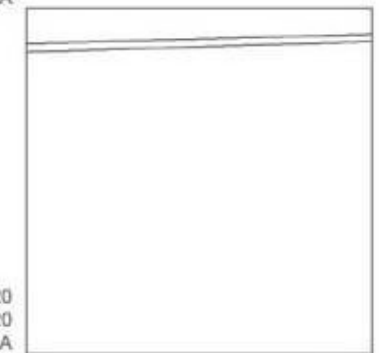
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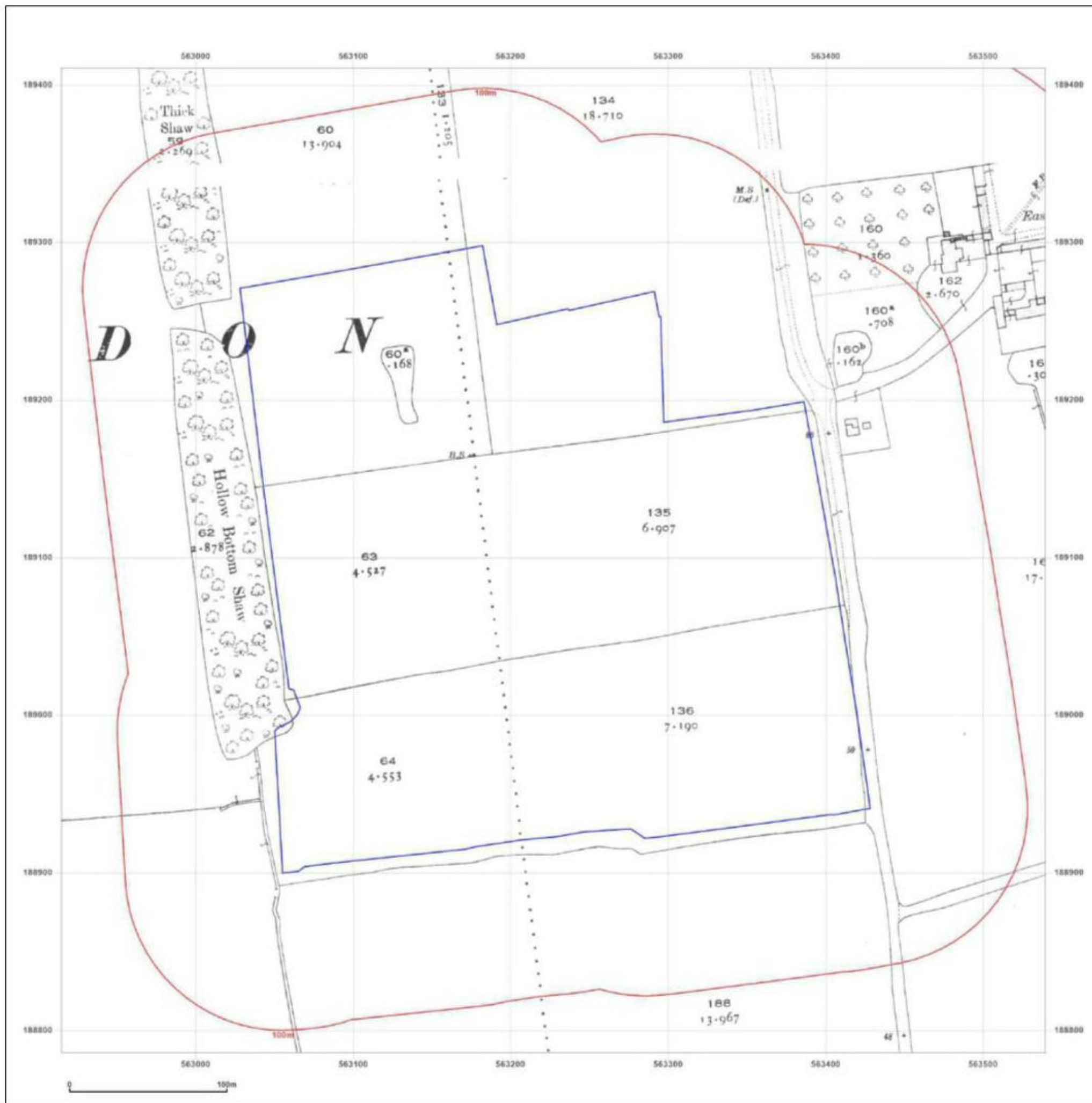


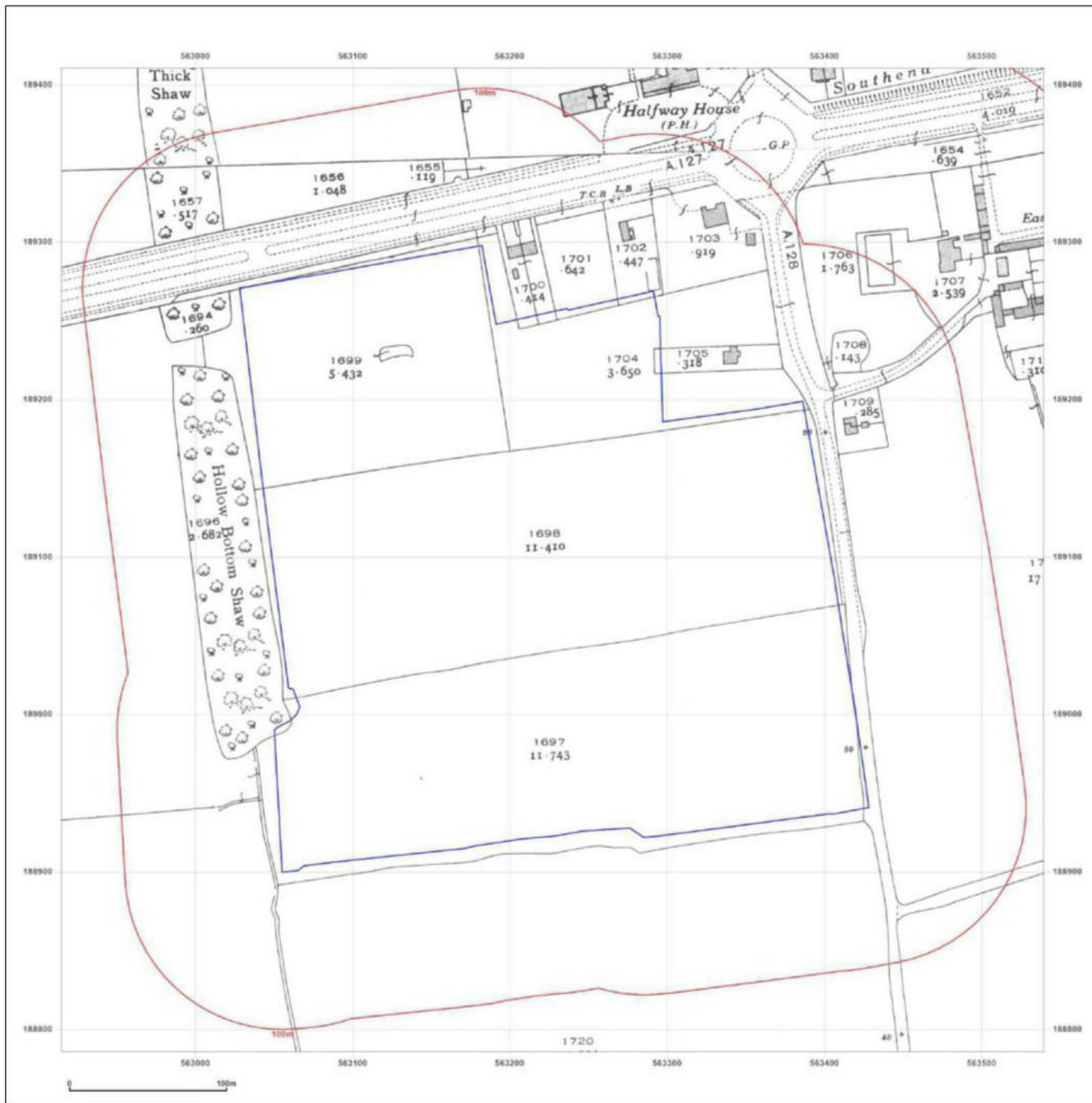
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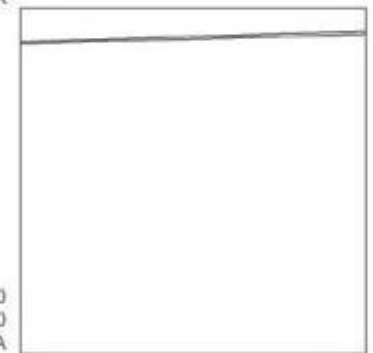
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Map Name: National Grid

Map date: 1955-1956

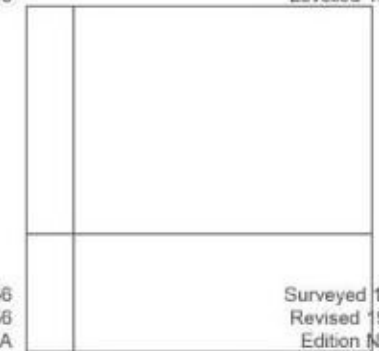
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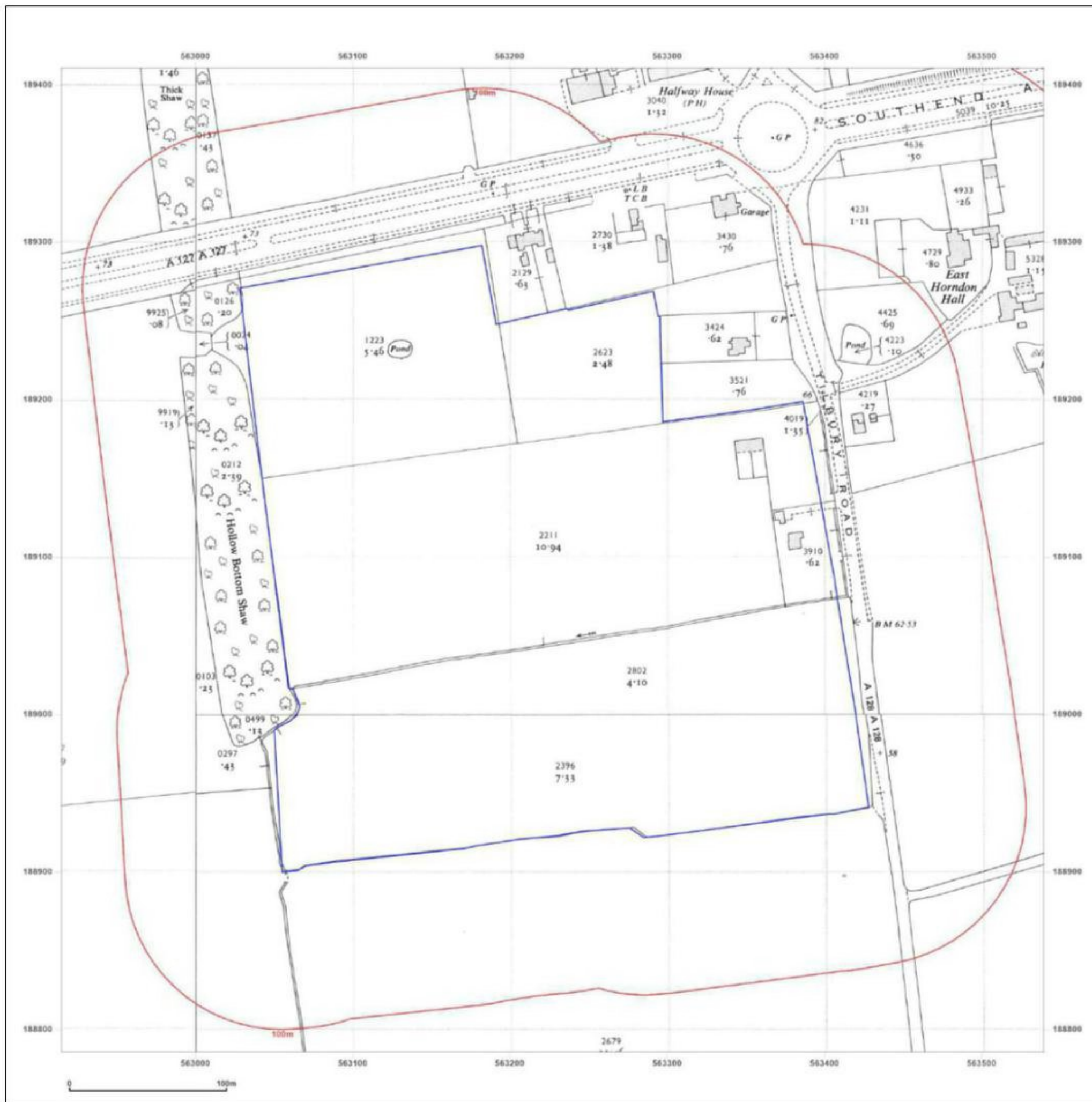
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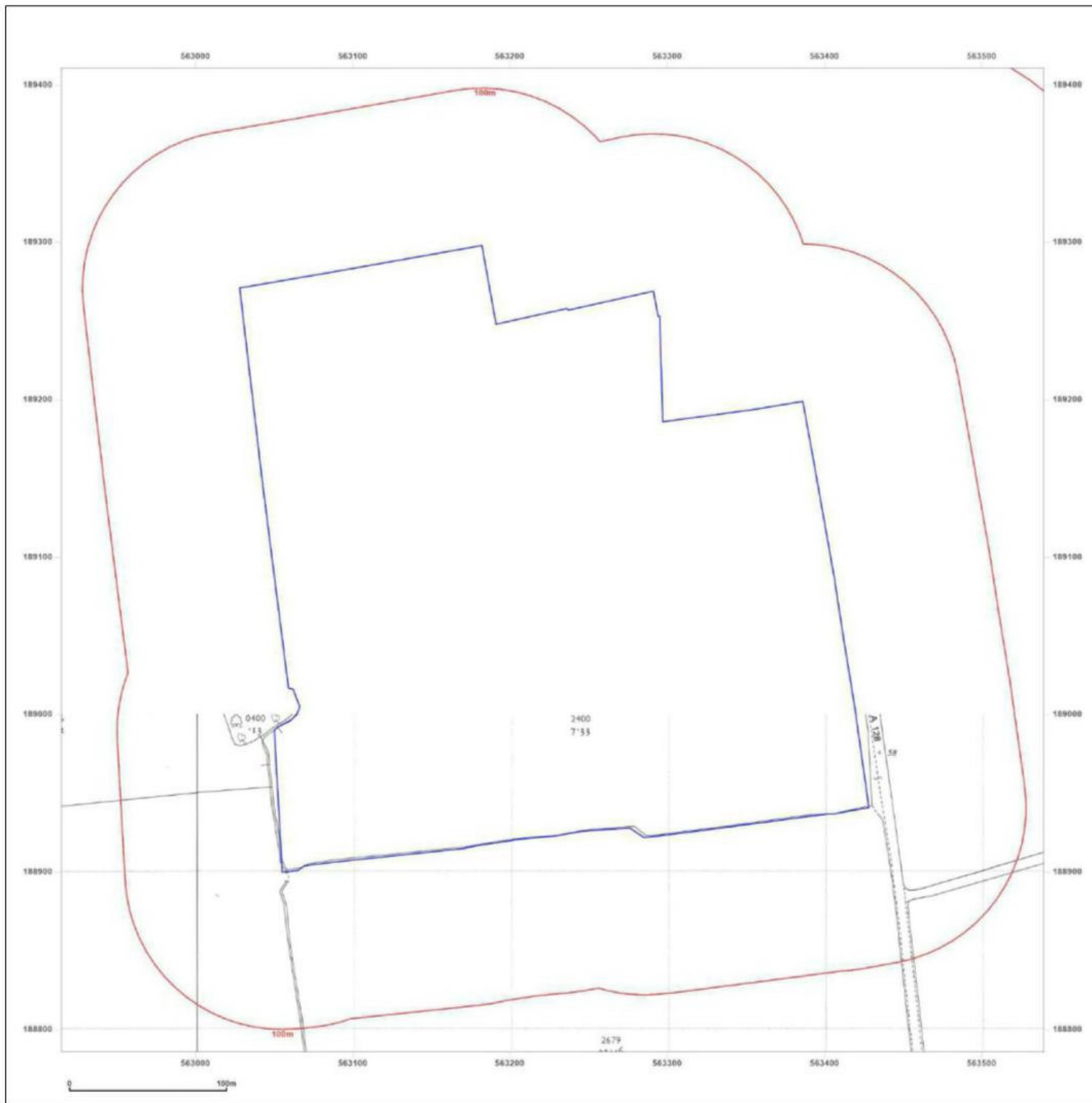
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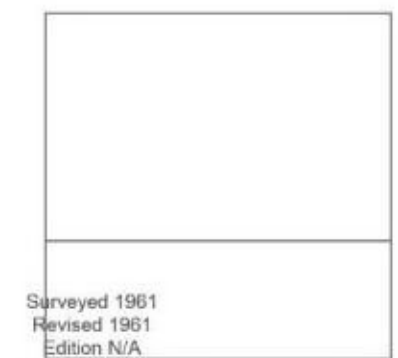
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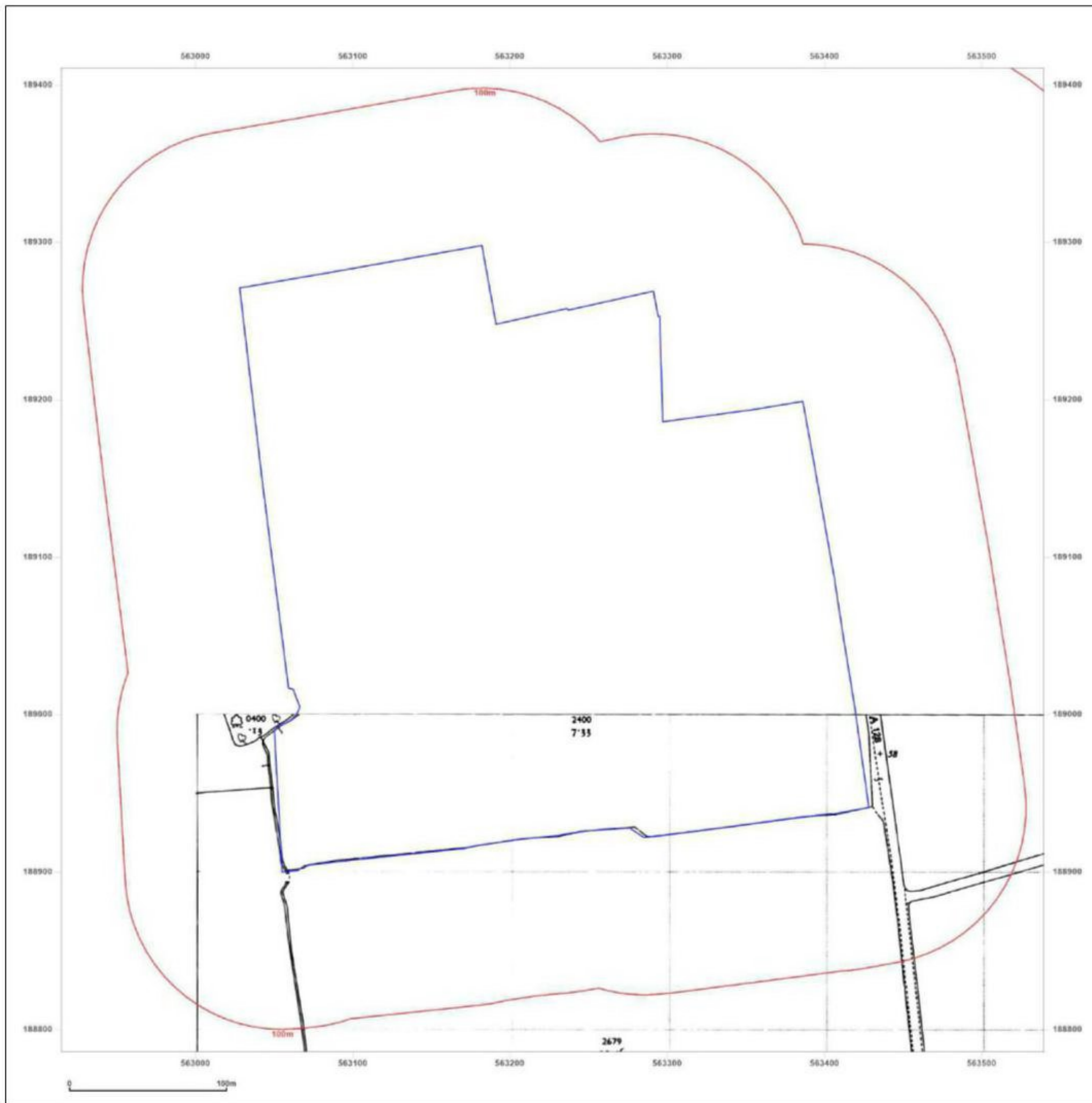
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Map Name: National Grid

Map date: 1962

Scale: 1:2,500

Printed at: 1:2,500



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 Edition N/A
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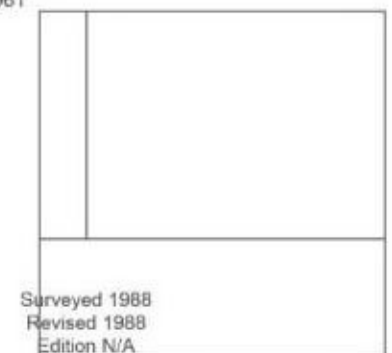
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Scale: 1:2,500

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 Grid Ref: 563227, 189098

Map Name: National Grid

Map date: 1989

Scale: 1:2,500

Printed at: 1:2,500



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 Edition N/A
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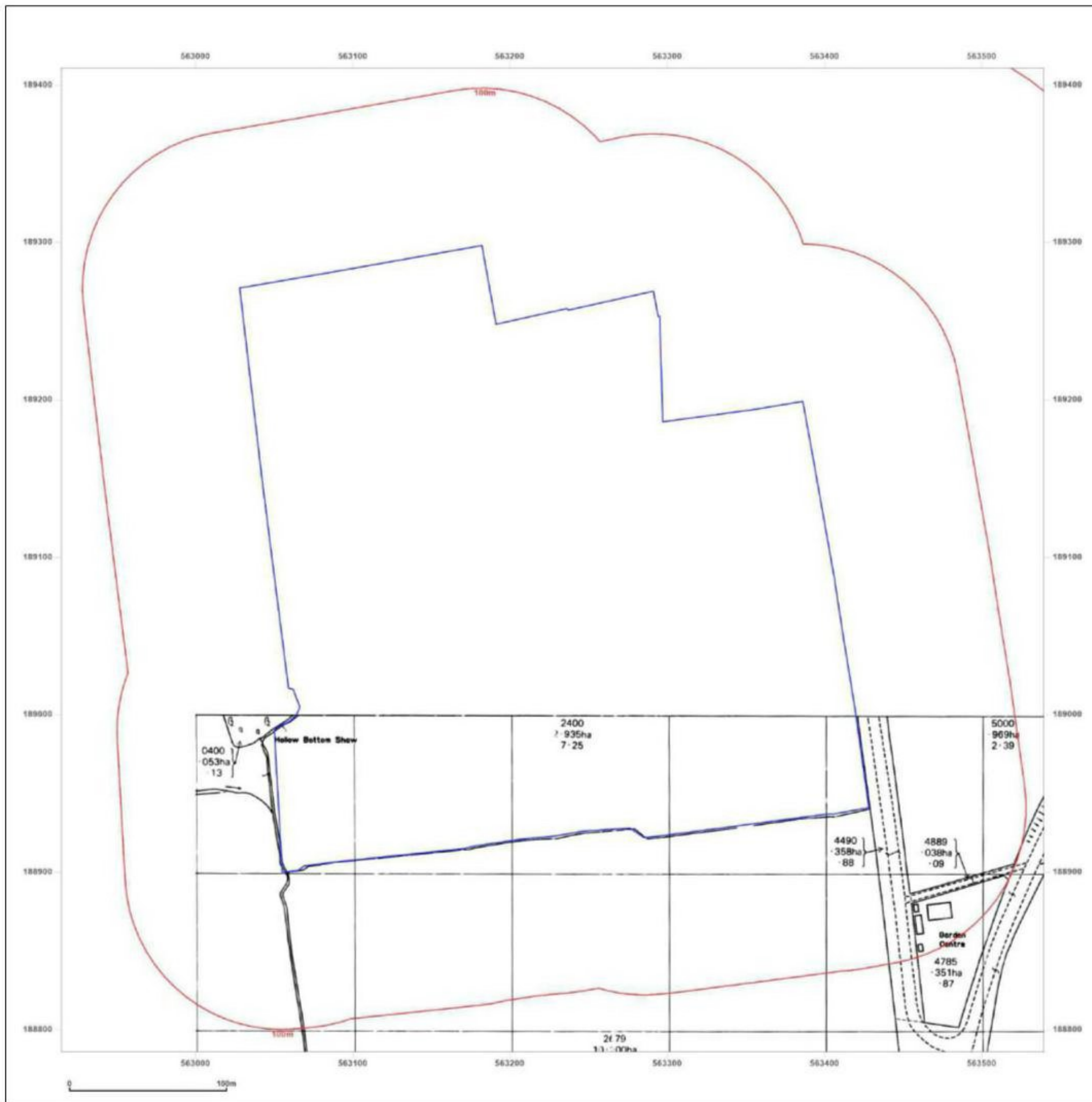


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Appendix B Local Authority Records.

Paul Brewer

From: David Carter <[REDACTED]>
Sent: 11 May 2021 16:58
To: pbrewer@[REDACTED]
Cc: Dominika Jaskolska
Subject: Tilbury Road Brentwood

Dear Sirs, apologies for the delay in responding to your request; I am not aware of any information held by the Council with regard to this site or immediate surrounds

Regards

David

David Carter | Environmental Health Manager | Brentwood Borough Council
T 01277 312500 | F 01277 312743 | www.brentwood.gov.uk | david.carter@brentwood.gov.uk



Brentwood Borough Council, Town Hall, Ingrave Road, Brentwood, Essex. CM15 8AY. This email (including any attachments) is intended only for the recipient(s) named above. It may contain restricted or privileged information and should not be read, copied or otherwise used by any other person unless express permission is given. If you are not a named recipient, please contact the sender and delete the email from the system. It is the recipient's responsibility to ensure that appropriate measures are in place to check for software viruses.

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Appendix C Photographic Record.



Photographic Record



Photograph 01
Entrance to the tenanted yard area off Tilbury Road.



Photograph 02
Shipping containers / materials storage NE corner.



Photograph 03
Building and materials storage in the yard area.



Photograph 04
View NE of the yard area, from earth bund.



Photograph 05
View W / NW of vegetated earth bund.



Photograph 06
View W / SW of the residential yard, outbuildings and garden, taken from earth bund.



Photograph 07
Vegetated earth bund.



Photograph 08
View E / NE of residential building and gardens.



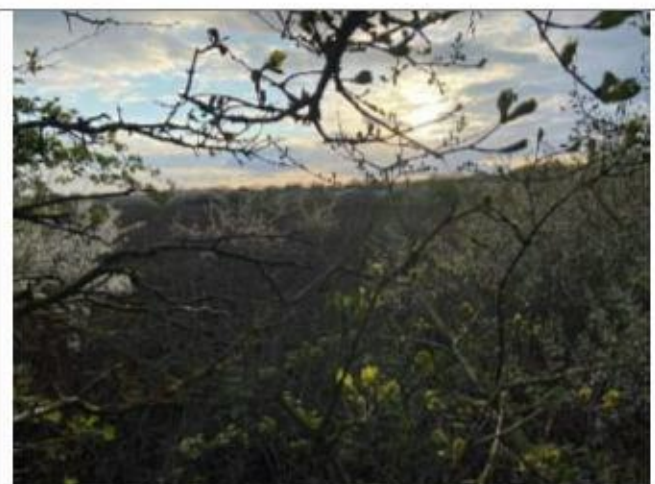
Photograph 09
View W of gardens and overgrown southern part.



Photograph 10
Pond in residential garden.



Photograph 11
View NE towards earth bund and yard area.



Photograph 12
Inaccessible vegetated southern part.



Photograph 13
Below ground LPG tank in residential garden.



Photograph 14
Above ground LPG tanks and oil tank in residential garden.



Appendix D BGS Records.



British
Geological
Survey

Version 2.0.6.3

BGS ID: 697715 : BGS Reference: TQ68NW70

British National Grid (27700) : 563150,188730

[Report an issue with this borehole](#)

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BOREHOLE SECTION SHEET

CONTRACT E. Horndon

LEGEND	DEPTH BELOW G.L.	12.68 LEVEL ADD.	THICKNESS OF STRATA	DESCRIPTION OF STRATA	SAMPLES			WATER LEVELS	CASING
					NO.	TYPE	DEPTH		
	0.4	12.28	0.40	TOPSOIL.					
				Firm-stiff fissured brown sl. silty CLAY.	1	B	1.7-1.9		
					2	U	2.05-2.50		1.5
					3	B	2.8-3.0		
					4	U	3.55-4.0		
			7.40		5	B	4.6-4.8		
					6	U	5.0-5.45		
					7	B	5.9-6.1		
					8	U	6.6-7.05		
					9	B	7.4-7.6		
	7.8	4.88		Stiff fissured blue grey sl. silty CLAY.	10	U	8.0-8.45		
			2.55 2.95		11	B	9.0-9.2		
	10.15	0.93			12	U	9.7-10.15		

Alluvium
on
London
Clay



SCALE: 1:50

B BULK SAMPLE
J DISTURBED JAR SAMPLE
U UNDISTURBED SAMPLE

WATER STRUCK
 WATER STANDING
W WATER SAMPLE



British
Geological
Survey

Version 2.0.6.3

BGS ID: 697717 : BGS Reference: TQ68NW72

British National Grid (27700) : 563420,189060

[Report an issue with this borehole](#)

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BOREHOLE SECTION SHEET

CONTRACT EAST HORNDON

LEGEND	DEPTH BELOW G.L.	13.63 LEVEL ADD.	THICKNESS OF STRATA	DESCRIPTION OF STRATA	SAMPLES			WATER LEVELS	CASING
					NO.	TYPE	DEPTH		
	0.60	18.23	0.60	TOPSOIL.					
<i>Hand on harden clay</i> 			7.10	Firm becoming stiff fissured brown sl. silty CLAY with some blue grey veins.	1	B	1.6-1.9		
					2	U4	2.0-2.45		
					3	B	2.9-3.0		
					4	U4	3.55-4.0		
					5	B	4.6-4.9		
					6	U4	5.1-5.55		
					7	B	5.9-6.0		
					8	U4	6.6-7.05		
	7.70	11.13			9	B	7.3-7.5		
<i>LC</i> 			2.30	Stiff fissured blue grey CLAY with silt laminations.	10	U4	8.0-8.45		
					11	B	9.0-9.2		
	10.00	8.83			12	U4	9.55-10.0		

SCALE: 1:50

B BULK SAMPLE
J DISTURBED JAR SAMPLE
U UNDISTURBED SAMPLE

WATER STRUCK
 WATER STANDING
 WATER SAMPLE



Appendix E Environment Agency Records.

Paul Brewer

From: Enquiries_EastAnglia <[REDACTED]>
Sent: 27 April 2021 08:14
To: pbrewer [REDACTED]
Subject: Tilbury Road, Brentwood, Essex CM13 3LS - Our ref: EAn/2021/213128
Attachments: TQ68080.xlsx; EAn 2021 213128 GW Contours.pdf; EAn 2021 213128 Sand and Gravel GW Flow.pdf; EAn 2021 213128 Chalk GW Flow.pdf

Dear Paul

Thank you for your enquiry of 26 March 2021.

We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

Aquifer(s)

You may view Aquifer Designations using [Magic Map](#) either using the 'Search for Layers' tool citing "Aquifer Designation Map", or by looking under "Landscape > Geology and Soils". Please use CTRL + Click to follow the link to the [Magic Map](#) Webpage. For any further questions regarding the use of Magic Map please respond to this email.

Groundwater quality

We have one Groundwater Quality Monitoring Site within 3km of the site; "Orchard Farm, Little Warley, Brentwood", see attached.

Groundwater depth

We have no Groundwater Level Monitoring Sites within 3km of the site.

The Essex Regional Groundwater Model estimates groundwater levels in certain generalised strata/aquifers to a resolution of 200m x 200m. The levels can vary depending on whether the model representation is assuming a representative dry, average or wet year.

The Essex Regional Groundwater Model estimates that in an average climatic month (based on May 1994) the water table is between 16mAOD and 20mAOD across the site, and the Chalk piezometric surface is between 4mAOD and 6mAOD. Please see the attached map. As with all modelled data, this should be treated with some caution as they may not accurately reflect real life conditions. We do not advocate the use of this data in place of field observations; it is an approximation provided to assist with conceptualisation.

Gradient & flow direction

The Essex Regional Groundwater Model estimates flow directions in certain generalised strata/aquifers to a resolution of 200m x 200m x the estimated average thickness of the aquifer within that area. The flow can vary depending on whether the model representation is assuming a representative dry, average or wet year. Generally speaking we would advise the customer determines flow direction for themselves based on the criteria that suits their needs (e.g. target aquifer, size of area, resolution of detail etc.). Regionally, groundwater could flow in one direction on average, but the situation in the immediate vicinity of the site could differ and be more complex.

The Essex Regional Groundwater Model estimates that in an average climatic month (based on May 1994), groundwater flow in the sands and gravels is predominantly to the south, and in the chalk aquifer is

predominantly to the south-east. Please see the attached maps. As with all modelled data, this should be treated with some caution as they may not accurately reflect real life conditions. We do not advocate the use of this data in place of field observations; it is an approximation provided to assist with conceptualisation.

Porosity/permeability of aquifer

The geology here consists of superficial head deposits (predominantly silt and clay based) on top of a significant thickness of London Clay. The chalk aquifer will be confined at considerable depth – the porosity/permeability of this aquifer is unlikely to be relevant for any development at surface.

Distance and direction to compliance points

We do not have groundwater 'compliance points'.

Nature of compliance points

See above.

Monitoring points

As above, we have one Groundwater Quality Monitoring Site within 3km of the site; "Orchard Farm, Little Warley, Brentwood" and no Groundwater Level Monitoring Sites within 3km of the site.

Location of controlled surface water receptors

All nearby surface water features can be seen on OS mapping and the location of any designated conservation sites with surface water features can be found using [Magic Map](#).

No wetlands are present.

You may also find useful data via other sharing services such as [DATA.GOV.UK](#), [MAGIC map](#) and new [GOV.UK digital services](#). Where the datasets are no longer available as maps, you will be able to download and use within specialist applications.

To find out all the services the Environment Agency have available, please click [here](#).


Please refer to the Open Government Licence available here <http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/> which explains the permitted use of this information.

TEAM2100: delivering the first 10 years of investment in tidal flood defences for the Thames Estuary 2100 Plan. For more information, visit [the TEAM2100 website](#) or 

Please get in touch if you have any further queries or contact us within two months if you would like us to review the information we have sent.

Regards
Teresa

Teresa Chapman
Customers & Engagement Officer, Customers & Engagement Team,
Environment Agency East Anglia Area





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- GOV.UK/coronavirus



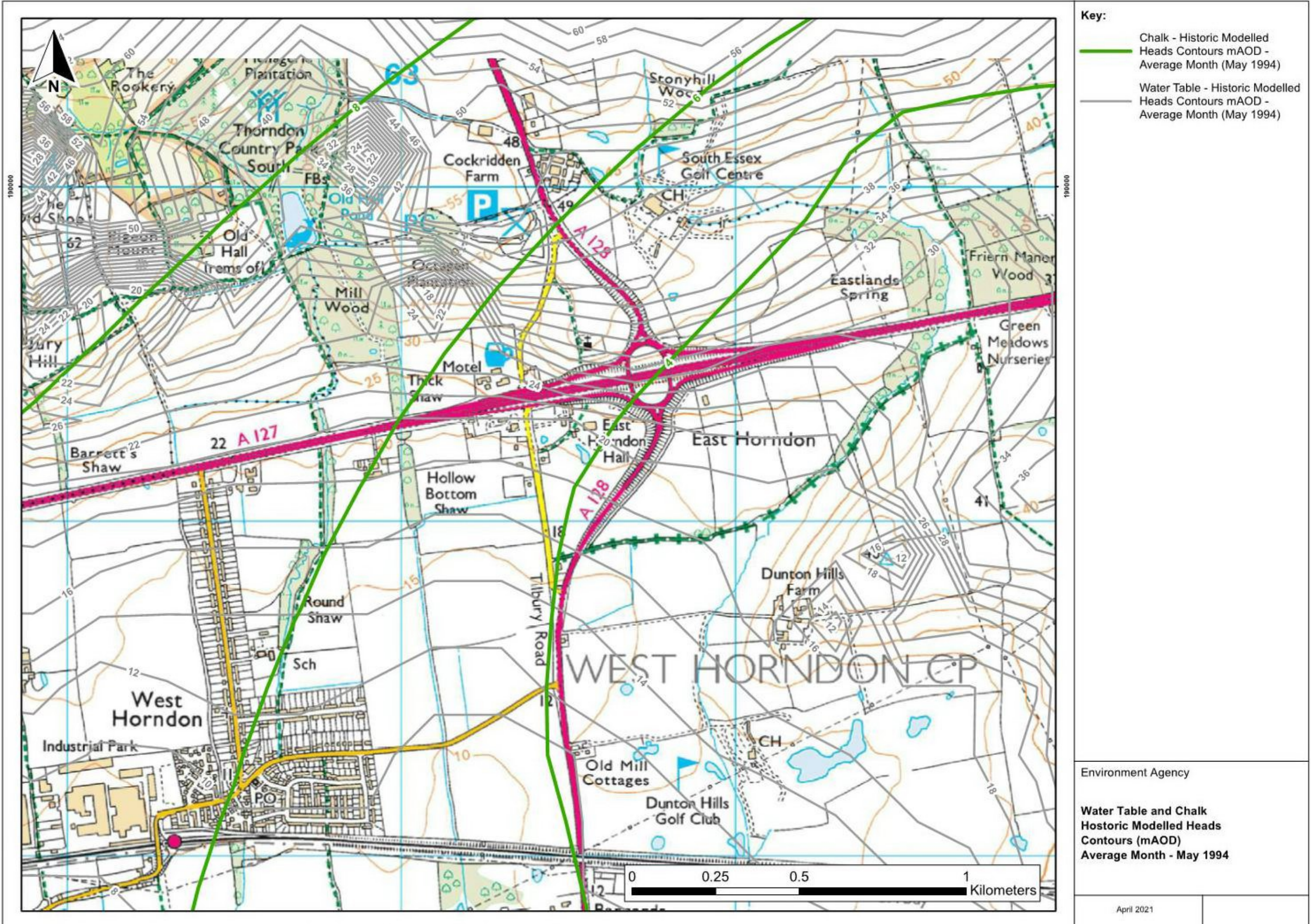
DATA.GOV.UK
Opening up Government

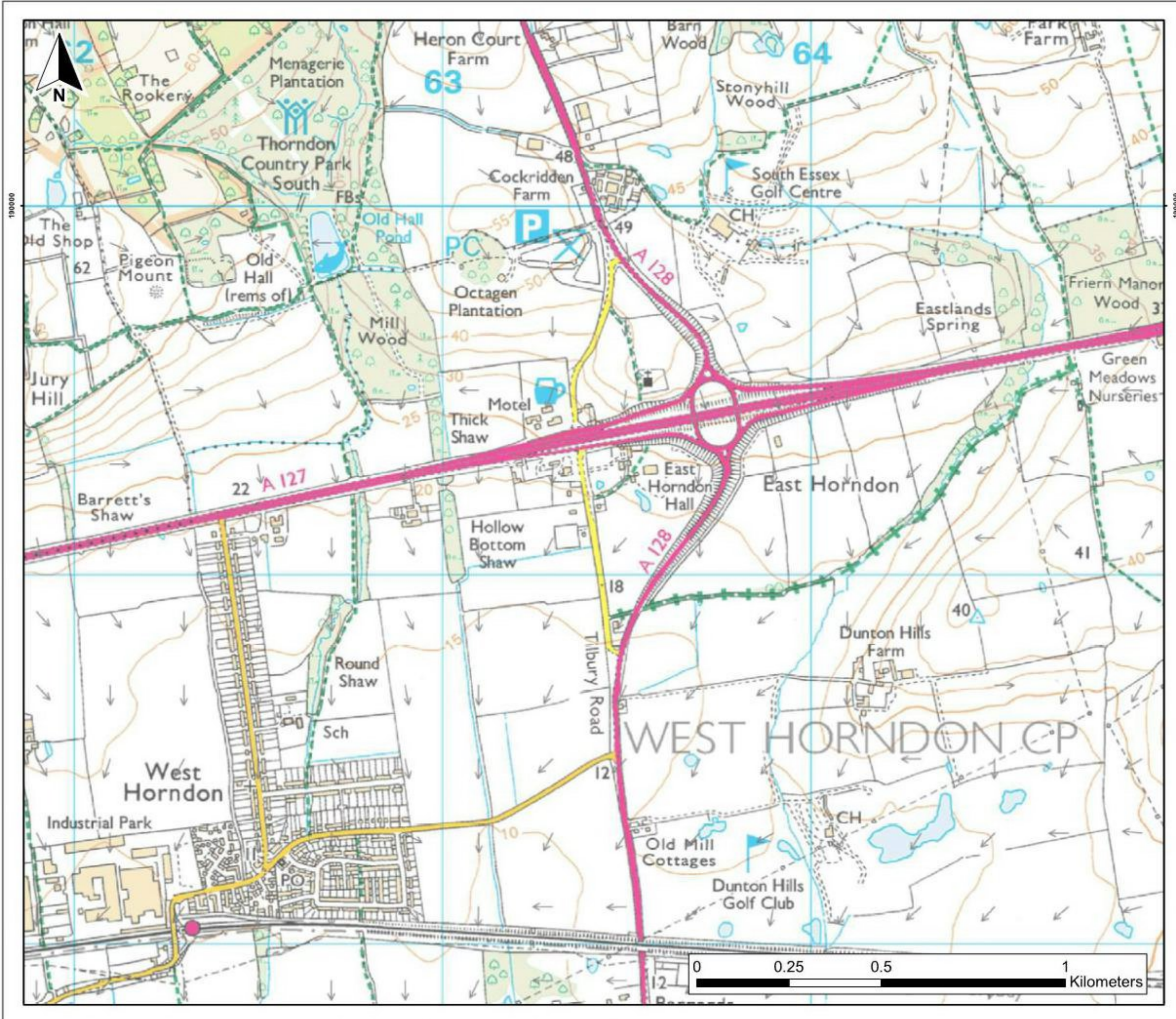
If you use the Defra **Data Sharing Platform (DPS)** you can use this [link](#) to find out about new and updated datasets and much more. Not using DPS yet? **Register for an account** [here](#) and you will receive email notifications direct.

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Key:
 Sands and Gravels Horizontal Flow (arrow for each cell, length scaled by flow intensity)

Environment Agency
Sands and Gravels
 Groundwater Flow (m³/day)
 Average Month - May 1994

April 2021

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