



Proposed Aldi Store
High Street, Royston, South Yorkshire
Phase I Geo-Environmental Assessment

Report Ref	Issue	Prepared by	Date	Reviewed by	Date
13690	1	A Cooper	16/9/2013	C Brewster	17/9/2013

Client:
Aldi Stores Ltd.
Faverdale Industrial Estate
Darlington
County Durham
DL3 0UW

3e Consulting Engineers
Ltd
4 Calder Close
Calder Park
Wakefield
WF4 3BA

Tel : 01924 240420



**Proposed Aldi Store,
High Street, Royston, South Yorkshire
Phase I Geo-Environmental Assessment**

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EXECUTIVE SUMMARY

Land Use	The site is unoccupied following the demolition of a factory leaving rough rubble hardstanding and occasional patches of concrete slab. The north eastern part of the site is heavily overgrown with bushes. The eastern, western boundaries comprise mature and semi mature trees and either chain link or wooden fence. The south western portion of the site boundary is formed by a buttressed masonry retaining wall, approximately 2m high. Abutting the southern boundary fence is a modular concrete retaining structuring running the full length of the boundary within the rear gardens of the housing bounding the site. Overall the site falls steeply from the highest point in the north west to the lowest point in the south east.
Site history	The site comprised a farm and open fields until 1956 after which the site was developed for a Spring factory, which has recently been demolished. The factory went through several phases of extension between 1962 and 2006 gradually developing southward across the site. The surrounding area has supported a quarry, residential properties, a farm and a primary school.
Environmental setting	• Geological information indicates the site is likely to be underlain by Mexborough Rock (sandstone). No superficial deposits are indicated • 6 coal seams have been exploited beneath the site at depths between 240m and 540m, together potential that there are shallow coal seams which may have been worked in the past. • Site does not lie in a flood risk area. • No landfills recorded within 250m. • The nearest recorded watercourse is some 139m south. • The underlying strata are classified as a Secondary A aquifer. • There are no abstractions within 1000m. • There are 2 discharge consents 189m to SW for storm water overflow • Radon protection measures are not required for future developments. • There are no Local Authority Pollution and Prevention Controls within 250m. • There are no petrol stations within 250m.
Contamination	Based on the site history, it is considered that the site presents a low environmental risk with respect to contamination.
Mining	The site is in the likely zone of influence from workings in 6 coal seams have been exploited beneath the site at depths between 240m and 540m, together potential that there are shallow coal seams which may have been worked in the past.
Ground Gas	The risk of ground gas is low to moderate and gas protection measures are currently considered necessary.
Foundations	It is anticipated that pad, strip or trench fill foundations will be appropriate, terminating in the glacial till or bedrock, which is anticipated within 2.5m of the surface. Foundations must extend below the previous foundations and that obstructions should be anticipated from the former buildings. Ground bearing floor slabs are likely to be suitable following some ground improvement of any made ground.

Ground Investigation	A ground investigation is required to confirm the site conditions. This is likely to include: trial pits or mini percussive boreholes to establish the shallow ground conditions and allow samples to be recovered for geotechnical and chemical laboratory analysis. Gas monitoring may be required if significant made ground or putrescible deposits are encountered during the investigation. Rotary probe holes to assess the depth of potential shallow coal workings.
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1 INTRODUCTION

1.1 3e Consulting Engineers Ltd (3e) were commissioned by Aldi Stores Ltd to carry out a Phase I Geo-Environmental Assessment for a proposed development on land adjacent to High Street in Royston, South Yorkshire. The location of the site is shown in **Figure 1** and an outline site plan is provided in **Appendix A**. This report highlights ground related environmental and geotechnical considerations in relation to the proposed development of a new Aldi store.

1.2 The objectives of this assessment were:

- To establish the historical development of the site and surrounding area.
- To establish the environmental setting of the site.
- To assess the potential impact of subsurface mining on the proposed development.
- To determine if historical or current activities could give rise to significant ground contamination.
- To assess the potential for hazardous ground gas.
- To determine the potential risks posed by contamination arising from historical or current activities on or in the vicinity of the site.

1.3 To this end the study has included a site walkover carried out on the 10th September 2013, an inspection of historical maps, geological data and a review of environmental information held on publicly available registers and other sources as indicated within the report.

1.4 This report presents the factual information available during this appraisal, interpretation of the data obtained and recommendations relevant to the scope of works outlined above. It has been assumed in the production of this report that the site is to be redeveloped for a commercial end use.

1.5 The comments and opinions presented in this report are based on the findings of the available desk study investigation carried out by 3e. Responsibility cannot be accepted for any conditions not revealed by this desk study and which have not been taken into account by this report.



1.6 This report has been prepared for the sole use of Aldi Stores Ltd. No other third party may rely upon or reproduce the contents of this report without the written approval of 3e. If any unauthorised third party comes into possession of this report, they rely on it entirely at their own risk and 3e do not owe them any Duty of Care or Skill.

2 THE SITE

Location and Description

2.1 The site, centred on National Grid Reference 435890, 411370, is located approximately 300m west of Royston village centre. The site occupies an area of 1Ha, is approximately rectangular in shape and lies at an elevation of approximately 70m AOD.

2.2 Land uses in the vicinity of the site are summarised below:

- **North:** High Street with residential properties and Working Men's Club.
- **East:** Residential properties.
- **South:** Residential properties and public open space.
- **West:** Primary School and residential properties.

2.3 The site is unoccupied following the demolition of a factory leaving rough rubble hardstanding and occasional patches of concrete slab. The north eastern part of the site is heavily overgrown with bushes. The eastern, western boundaries comprise mature and semi mature trees and either chain link or wooden fence. The south western portion of the site boundary is formed by a buttressed masonry retaining wall, approximately 2m high. Abutting the southern boundary fence is a modular concrete retaining structuring running the full length of the boundary within the rear gardens of the housing bounding the site. The site is secured by a large earthen bunded along the northern boundary.

2.4 Overall the site falls steeply from the highest point in the north west at 74.6m AOD to the lowest point in the south east at 65.3m AOD. The current site features and levels as indicated on **Figure 2** and Site Photographs are present in **Figure 3**.

3 SITE HISTORY

3.1 In order to establish the site's history, an inspection of historical maps dating between 1856 and 2013 and obtained as part of an Envirocheck report has been made (Ref. 49048552_1_1 dated 10 September 2013). A summary of the information is provided below and a copy of the maps is included as **Appendix B**.

Map Dates	On-Site Features	Relevant Off-Site Features
1893 - 1956	Farm house and yard in north of site.	N: Housing and farm S: Open land E: Open land and woodland W: Woodland Open quarry indicated 100m to NE
1956 - 1962	Long thin building indicated in northern part of site with two outbuildings in north and west replacing majority of farm buildings	Housing developed to west
1962 – 1970	Building footprint expanded and indicated as works	Housing developed to north
1970 – 1976	Building indicated as #Spring Manufacturing Works' footprint expanded in southerly direction Boundary wall indicated in southern part of site, north of current retaining wall.	Housing developed to east
1976 – 2006	Further phases of building extension by 1993 and 2006.	School developed to SW
2006 -2013	Site cleared and unoccupied.	Housing developed to south

3.2 In summary, the site comprised a farm and open fields until 1956 after which the site was developed for a Spring factory, which has recently been demolished. The factory went through several phases of extension between 1962 and 2006 gradually developing southward across the site. The locations and timescales of the historical site features are shown on **Figure 4**.

3.3 Within the surrounding area, land uses have included a quarry, residential properties, a farm and a primary school.

3.4 Potential sources of contamination include the imported made ground from associated with the development of the site, however, significant contamination is not anticipated.

4 ENVIRONMENTAL SETTING

4.1 This section is based principally upon a search of information available on public registers through an Envirocheck search (Reference 49048552_1_1 dated 10 September 2013) included as **Appendix C**, together with other sources as indicated.

Geology and Mining

4.2 A summary of the site geology, based on available published information, is provided below.

Sources of Information	British Geological Survey (BGS) map; Barnsley, Sheet 87, 1:50,000 scale, Solid and Drift edition.
Made Ground	None recorded although given the previous developments some made ground is anticipated.
Superficial Deposits (drift)	None recorded
Solid Geology	BGS records indicate Upper Carboniferous Mexborough Rock (sandstone). The strata dip to the SE beneath the site. The shallowest seam indicated is and unnamed seam very close to the southern boundary of the site.
Mining	A Coal Authority mining report indicates that the site is in the likely zone of influence from workings in 6 seams of coal at 240m to 540m depth which was last worked in 1980. Any ground movement from these coal workings should have stopped by now. The Coal Authority considered there are shallow coal seams which may have been worked in the past. No mine entries are recorded on site or within 20m of the boundary. The property immediately beyond High Street to the north was subject to a subsidence claim. The Coal Authority information indicates the claim was rejected after inspection. A copy of the mining report and addition information are included in Appendix D.
Quarrying	Former quarry 100m NW 1893 survey part of which is still indicated on 2013 survey.

Hydrology and Hydrogeology

4.3 A summary of available information pertaining to hydrology, hydrogeology, flood risk potential, water abstractions, discharge consents and pollution incidents to controlled waters is provided below.

Watercourses	The nearest watercourse is recorded 139m south flowing west to east.
Flood Risk	The site does not lie within a fluvial flood plain considered to be at risk of flooding.
Groundwater Classification	Solid Geology: Secondary A aquifer. Superficial Geology: Soils of high leaching potential.
Source Protection Zones	NR
Springs	NR
Wells	NR
Licensed Surface Water Abstractions	NR within 1000m.
Licensed Groundwater Abstractions	NR within 1000m.
Discharge Consents	2 consents 189m to SW for storm water overflow
Pollution Incidents	NR within 250m

NR – None Recorded

Landfill Sites and Waste Management

4.4 A summary of information regarding landfill sites (historical or current) and waste management facilities is provided below.

Local Authority Recorded Landfills	NR within 250m.
BGS / EA Recorded Landfills	NR within 250m.
Other Waste Management Facilities	NR within 250m.

NR – None Recorded

Pollution Controls and Industrial Land Use

4.5 A summary of Pollution Control records and potentially polluting activities (fuel stations) is provided below.

Integrated Pollution Controls (IPC)	NR within 250m.
Integrated Pollution Prevention and Control (IPPC)	NR within 250m.
Pollution Prevention and Controls (PPC)	NR within 250m.
Petrol Filling Stations	NR within 250m.

NR – None Recorded

Radon

4.6 Inspection of the BRE publication BR211 (2007), "Radon: Guidance on protective measures for new buildings" indicates that the site is not in a radon affected area and radon protection measures are not required in the construction of new dwellings.

Other

Other sensitive land uses or potentially contaminative activities are listed below. The entries relate to activities within approximately 250m of the site.

- Two inactive contemporary trade registered for the site L&P Springs and Chiltern Springs.
- Two active services garages registered within 250m

5 CONCEPTUAL SITE MODEL

5.1 Based on the available desk study information, a conceptual site model (CSM) has been developed for the proposed future land use (commercial). This summarises the understanding of the existing site and its historical development, the site geology, the potential contaminant sources, transport pathways and receptors in order to assess potential pollutant linkages. In assessing the potential contaminants present at the site, reference has also been made to the relevant sections of CLR 8, the Department of the Environment Industry Profile reports and any other relevant supporting documentation.

5.2 Based on the available information, a summary of the potential contamination sources, pathways and receptors is provided below.

Sources of Contamination

- Imported made ground associated with the past development for a factory.

Potential Pollution Pathways

- Humans: direct contact, soil ingestion and dust inhalation.
- Controlled waters: Lateral and vertical migration of leachable/mobile contamination.
- Adjacent Properties: Lateral migration of leachable/mobile contamination.

Receptors

- Site end users.
- Construction workers.
- Underlying Secondary A aquifer.
- Nearby property.

Pollutant Linkage Assessment

5.3 A qualitative risk assessment has been made of the likelihood of any pollutant linkage operating and its potential significance, as summarised in the table below:

Contamination Source	Pathway	Hazard	Potential Receptors	Linkage Complete
Contaminants associated with made ground on site (associated with previous development)	Direct contact, ingestion and dust inhalation	Human health risk	Site construction workers	Yes. However, significant contamination is not anticipated and the risk can be removed by the use of appropriate PPE and limited exposure.
			Site end users	Unlikely as the proposed development will comprise a majority of hardstanding which will break the pathway to end users.
	Vertical or lateral migration	Leaching of contamination in permeable soils	Aquifer	Unlikely, significant contamination is not anticipated.
	Lateral migration	Leaching of contamination in permeable soils. Mobile contamination (oils)	Adjacent properties	Unlikely, significant contamination is not anticipated.

6 ENVIRONMENTAL RISK ASSESSMENT

6.1 The potential environmental risk has been assessed based on the 'source-pathway-target' pollutant linkages identified in the Conceptual Site Model, which requires that for a liability to arise each stage of the pollutant linkage must be present. References to risk classifications are made according to the following definitions:

- **Low risk** – it is unlikely that an issue will arise with respect to causing significant harm to human health or controlled waters.
- **Medium risk** – it is possible that an issue could arise with respect to causing significant harm to human health or controlled waters.
- **High risk** – it is likely that an issue will arise with respect to causing significant harm to human health or controlled waters.

6.2 Having evaluated the information gathered during this study and described in the previous sections the following risk assessment has been produced.

ENVIRONMENTAL RISK ASSESSMENT		
	Risk rating	Reason
Contamination potential for:		
On-site contamination	Low - Med	Some made ground anticipated, however, significant contamination is not anticipated.
Contaminants migrating off site	Low	Significant contamination is not anticipated.
Contaminants migrating onto site	Low	Surrounding land use is residential.
Other environmental issues giving rise to concern	Low	None identified.
OVERALL RISK	Low	

Ground Gas Risk Assessment

6.3 Based on the above information gained through the Envirocheck report, the risk of ground gas emissions is considered to be low to moderate. The following summarises the gas risk for the site:

Potential Gas Source	Hazard	Risk Rating	Justification
Offsite sources	Humans: health risk Buildings: explosion	Low	Landfills or former quarries are not present within 250m of the site.
Made ground on site (CH ₄ , CO ₂)	Humans: health risk Buildings: explosion	Low to Moderate	The site has been previously development, including, therefore, significant made ground which could contain a putrescible fraction.
Coal and historical mining	Humans: health risk Buildings: explosion	Low to Moderate	Worked coal seams located at depth and potential shallow unrecorded coal working.
Radon	Humans: health risk	N/A	No precautions required.
Overall Risk		Low to Moderate	

7 GEOTECHNICAL CONSIDERATIONS

7.1 The following geotechnical considerations are given as preliminary guidelines only based on the available data on the ground conditions. Consequently, the following should not be taken as design criteria without further geotechnical data obtained from a suitably designed ground investigation.

Mining

7.2 The site lies in an area with a significant history of coal mining and shallow reserves may exist which may have been exploited but not recorded.

Foundations and Floor Slabs

7.3 Foundations are likely to comprise strip, pad or trench fill foundations terminated in the glacial till or shallow bedrock, which is anticipated to be present at less than 2.5m depth. Foundations must extend below the previous foundations and that obstructions should be anticipated from the former buildings.

7.4 Ground bearing floor slabs are likely to be possible subject to re-engineering of any made ground.

Pavements

7.5 It is anticipated, subject to the findings of a ground investigation, that standard construction techniques can be utilised although low CBR values should be anticipated for preliminary pavement design on made ground.

Gas Protection Measures

7.6 The preliminary ground gas risk assessment identifies a low to moderate risk to the development from ground gas/vapour and protection measures are unlikely to be necessary. However, it would be prudent to carry out gas monitoring if significant made ground or putrescible deposits are encountered during the investigation.

Drainage

7.7 Soakaway drainage may be considered suitable if weathered sandstone is encountered at shallow depth, subject to findings of initial site investigation. However, if weathered mudstone is encountered the likelihood of soakaways functioning is considered to be very low.

8 FURTHER INVESTIGATIONS

8.1 An intrusive investigation will be required for the proposed development to address the ground related issues discussed above. A summary of the likely scope of works, which should not be taken as an exhaustive list, is provided below.

- Trial pits or mini percussive boreholes to assess the shallow soil profile and allow samples to be recovered for laboratory analysis.
- Rotary probe holes to assess the depth of potential shallow mine workings.
- Laboratory chemical and geotechnical testing.
- Ground gas assessment.

Figures



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consulting engineers

4 calder close
calder park
wakefield
WF4 3BA

t 01924 240420
f 01924 240421

www.3econsult.com

Project Land off High Street, Royston
For Aldi Stores Ltd.

Title Site Location Plan

Scale 1:25000	Drawn AHC	Checked ACV	Date Sept '13
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Job No. 13690	Drawing No. Figure 1	Rev 0
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Photo 1



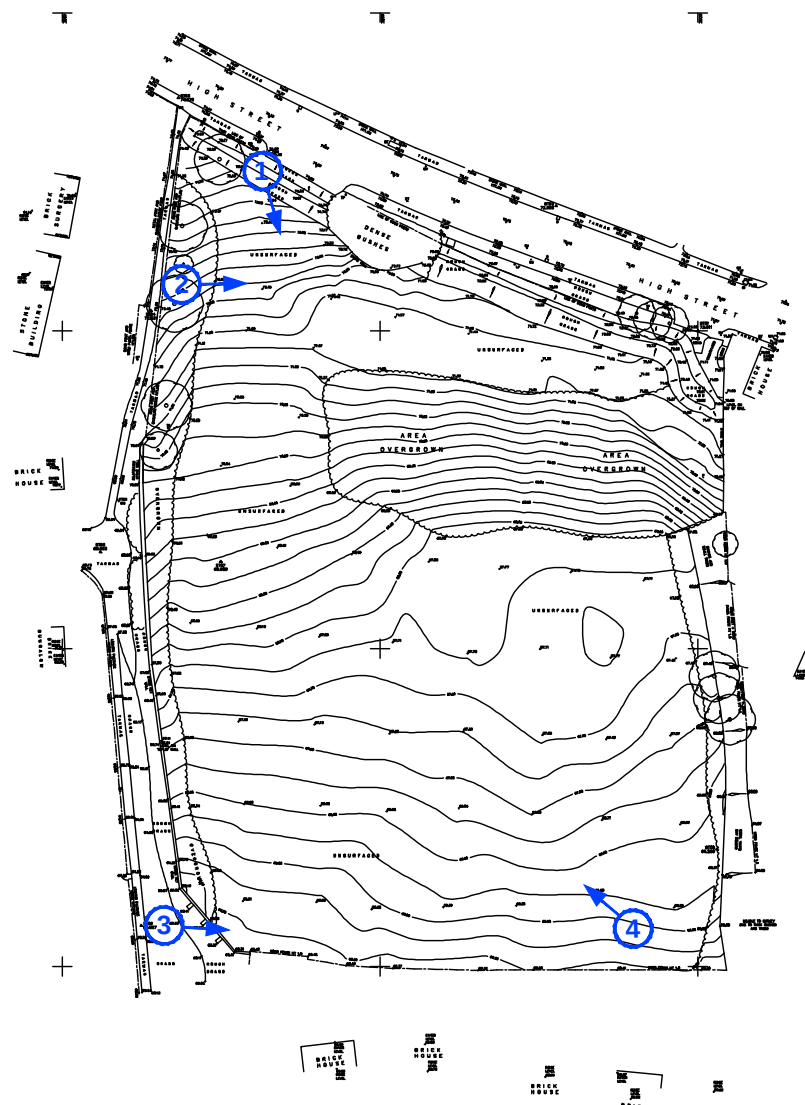
Photo 2



Photo 3



Photo 4





4 Calder Close,
Calder Park,
Wakefield,
WF4 3BA.
tel: 01924 240420
fax: 01924 240421
www.3econsult.com

Project High Street, Royston, Barnsley For Aldi Stores Ltd.			
Title Site Photographs			
Scale NTS	Drawn AHC	Checked ACV	Date Sept '13
Job No. 13690	Drawing No. Figure 3		Rev 0



consulting engineers

1st Floor, Block C
Holland Park
Holland Drive
Newcastle upon Tyne
NE2 4LD

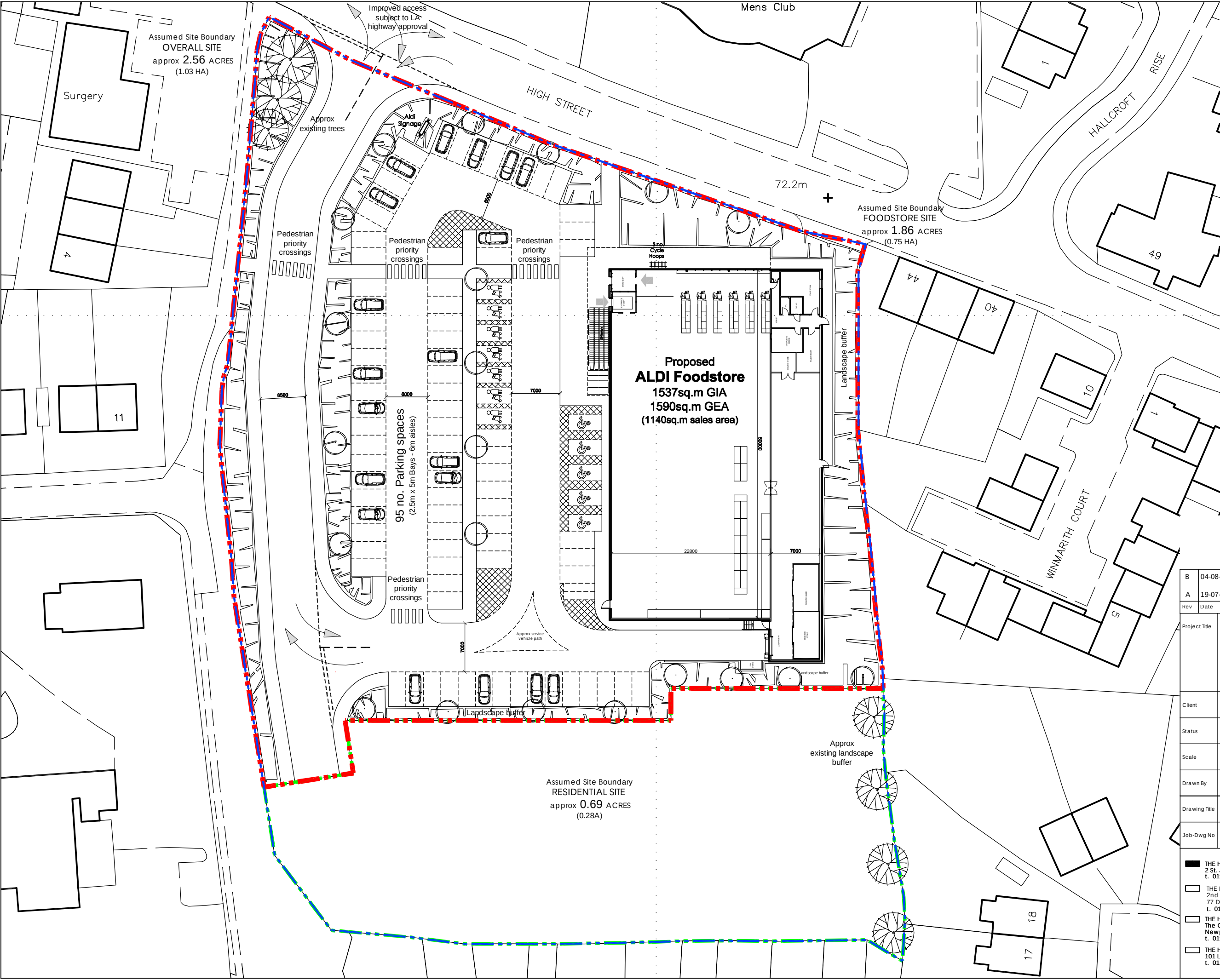
tel: 0191 230 2993
fax: 0191 230 3677

www.3econsult.com

Project High Street, Royston, Barnsley For Aldi Stores Ltd.			
Title Historical Features Plan			
Scale NTS	Drawn AHC	Checked ACV	Date Sept '13
Job No. 13690	Drawing No. Figure 4	Rev 0	

Appendix A

Outline Site Plan



Site from Ordnance Survey and subject to full topographical survey. Assumed site boundary.



INDICATIVE
TRUE
NORTH

B	04-08-13	Foodstore boundary amended to include access	JB	NJC
A	19-07-13	Store sales area increased in size	NJC	JB
Rev	Date	Description	Rev By	Chk'd

Project Title	Proposed Development			
	High Street Royston			

Client	Quora			
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Status	Feasibility			
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Scale	1:500	Drawing Size	A3	
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Drawn By	ASR	Checked By	NJC	Date	07/13
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Drawing Title	Proposed Site Plan			
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Job-Dwg No	12791-002	Rev	B
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THE HARRIS PARTNERSHIP WAKEFIELD
2 St. Johns North, Wakefield, WF1 3QA
t. 01924 291 800 f. 01924 290 072

THE HARRIS PARTNERSHIP MANCHESTER
2nd Floor, Carvers Warehouse,
77 Dale Street, Manchester, M1 2HG
t. 0161 238 8555 f. 0161 244 5809

THE HARRIS PARTNERSHIP MILTON KEYNES
The Old Rectory, 79 High Street
Newport Pagnell, MK16 8AB
t. 01908 211 577 f. 01908 211 722

THE HARRIS PARTNERSHIP READING
101 London Road, Reading, RG1 5BY
t. 0118 950 7700 f. 0118 956 8642

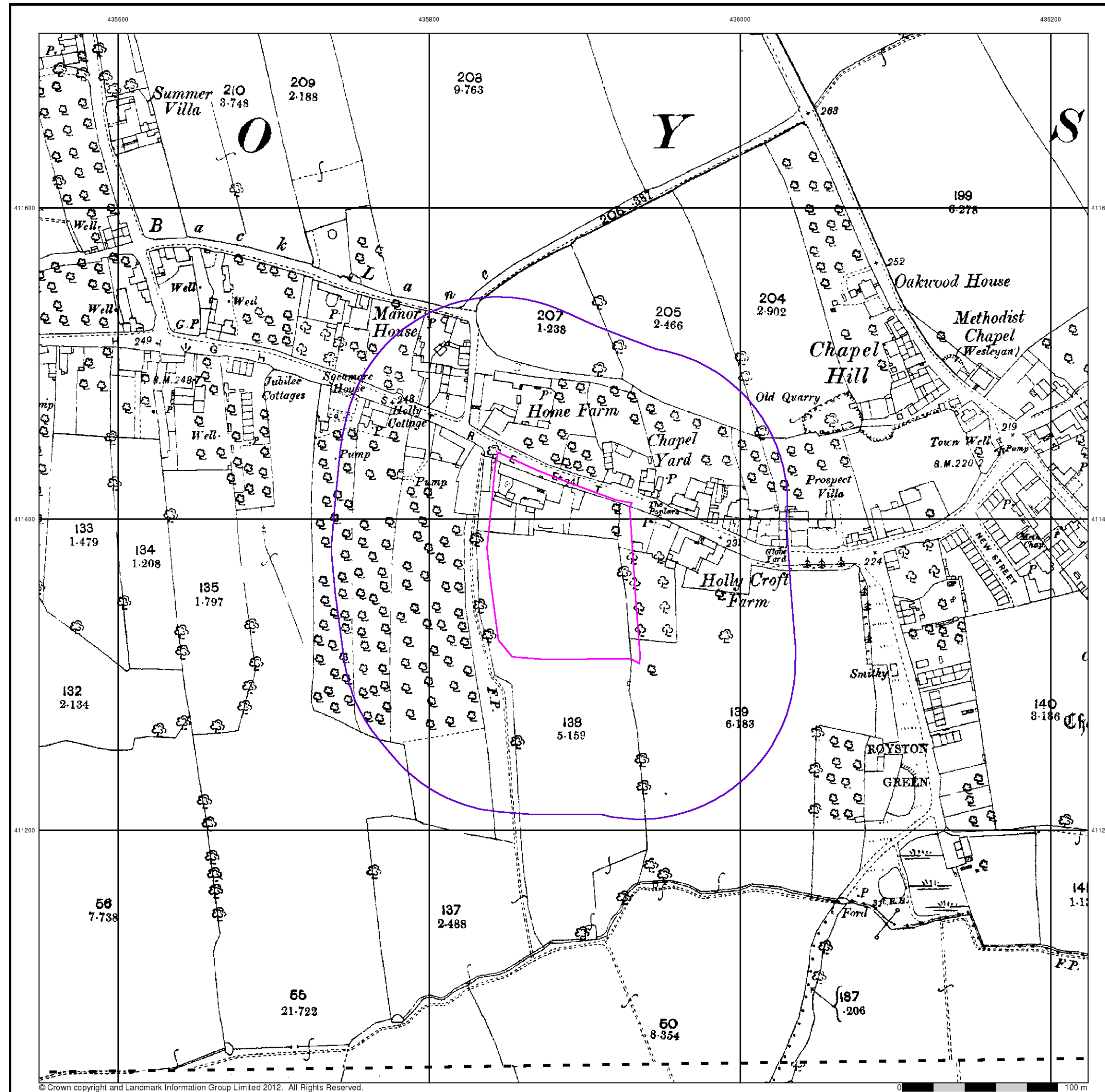
THE
HARRIS
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ARCHITECTS

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Appendix B

Historical Records



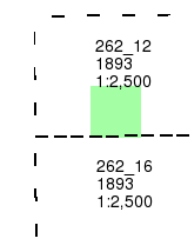
Yorkshire

Published 1893

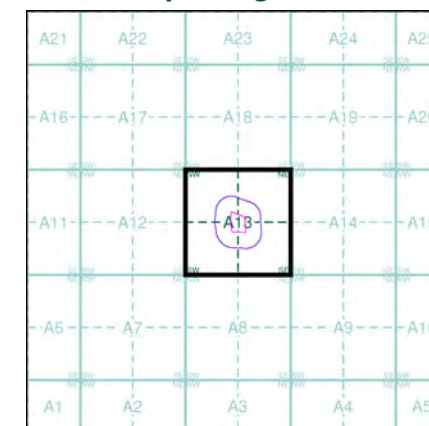
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

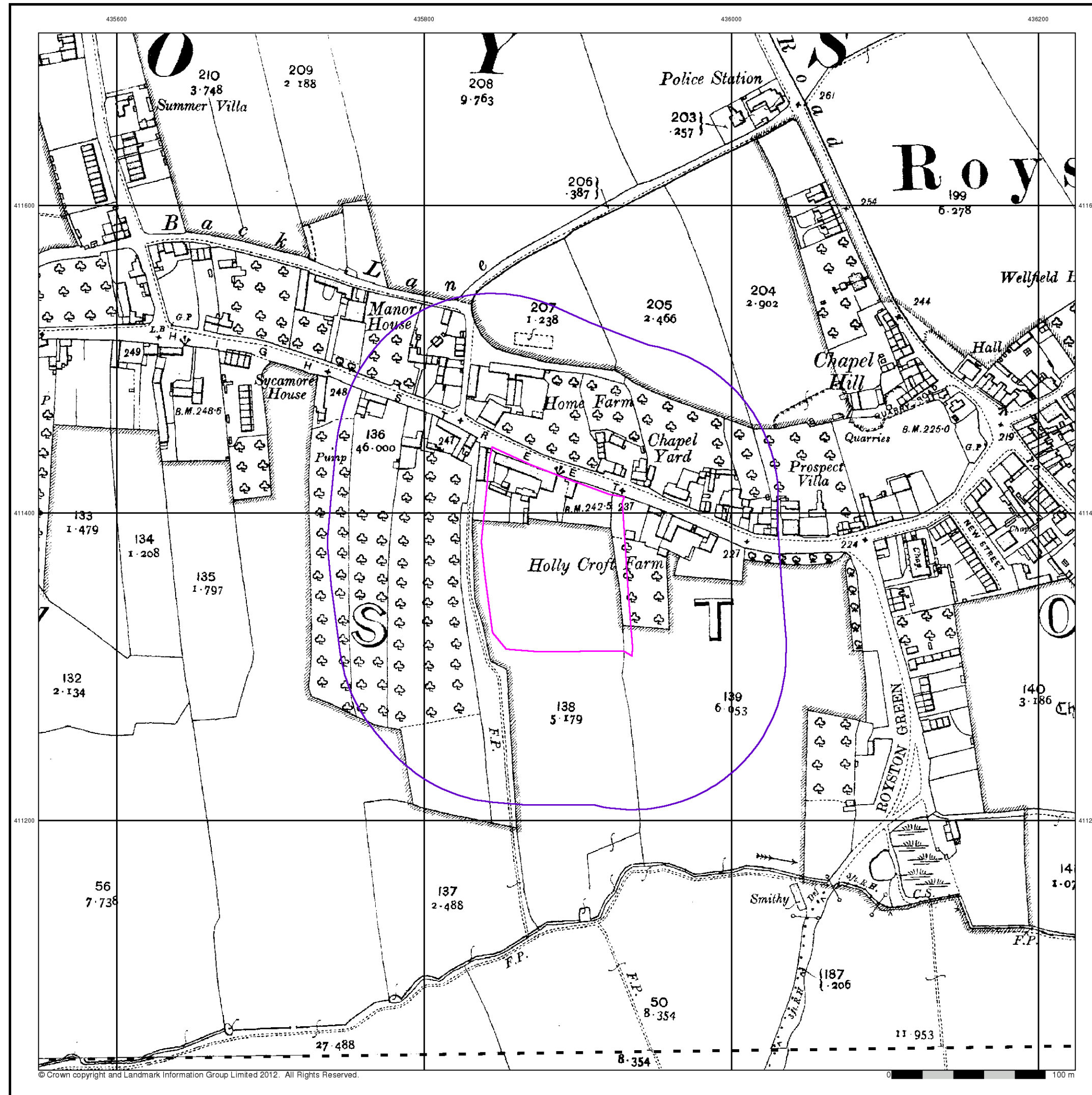
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Customer Ref: 13690
National Grid Reference: 435890, 411370
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

High Street, Royston, BARNSELY, South Yorkshire, S71 4RF



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



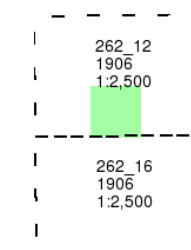
Yorkshire

Published 1906

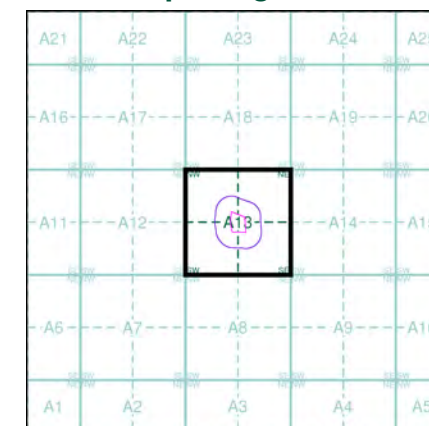
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 49048552_1_1
Customer Ref: 13690
National Grid Reference: 435890, 411370
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

High Street, Royston, BARNSELY, South Yorkshire, S71 4RF



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



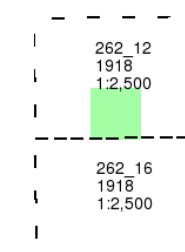
Yorkshire

Published 1918

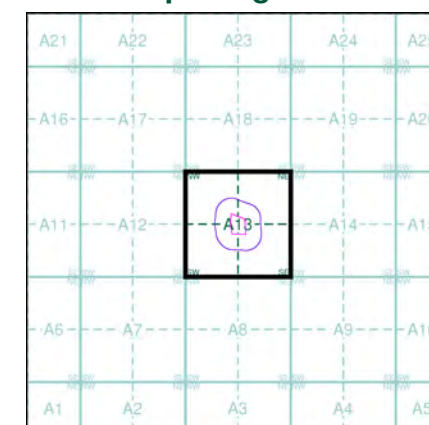
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Historical Map - Segment A13



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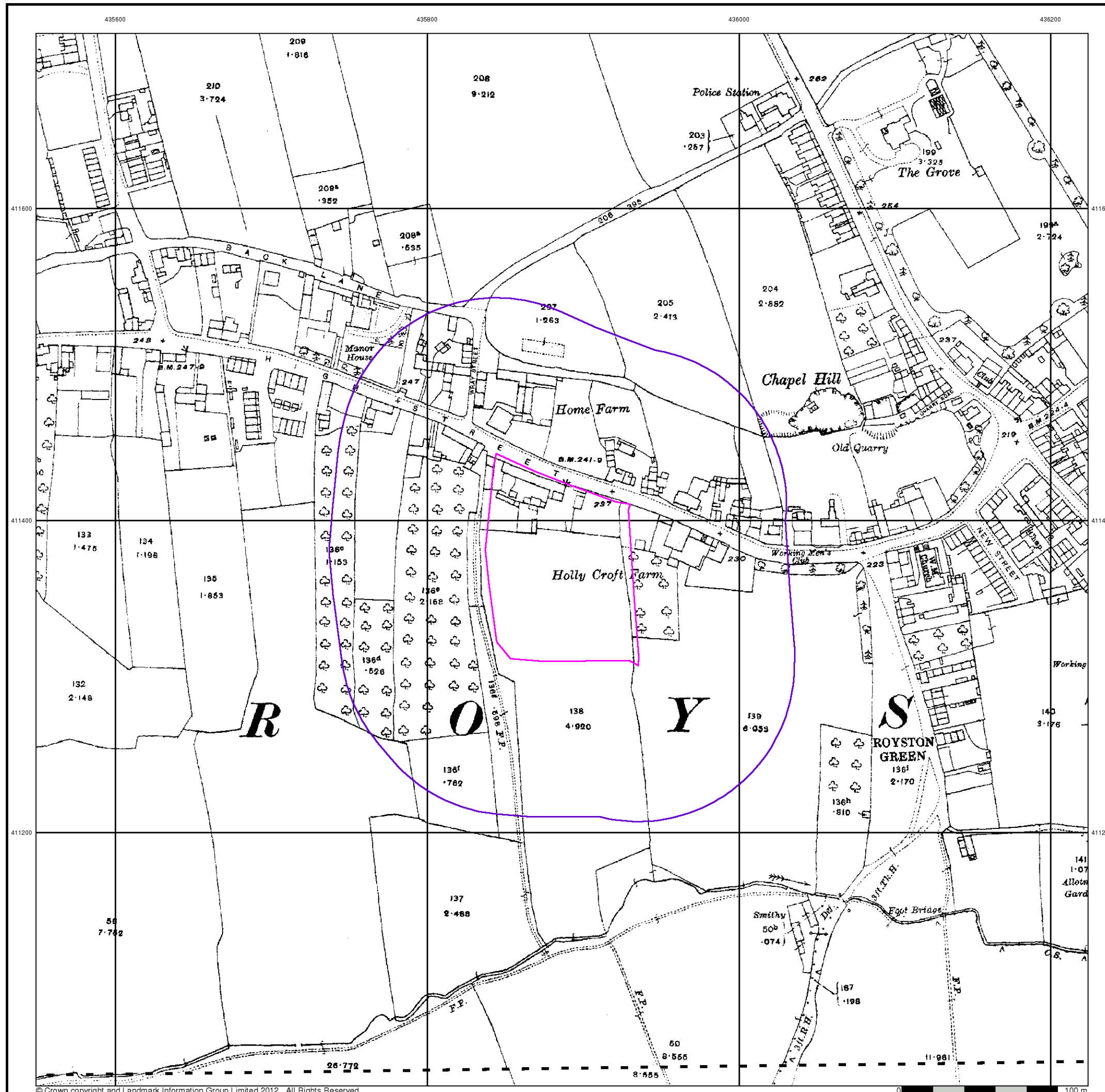
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Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

High Street, Royston, BARNSLEY, South Yorkshire, S71 4RF



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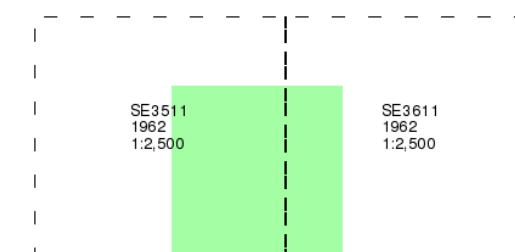
Ordnance Survey Plan

Published 1962

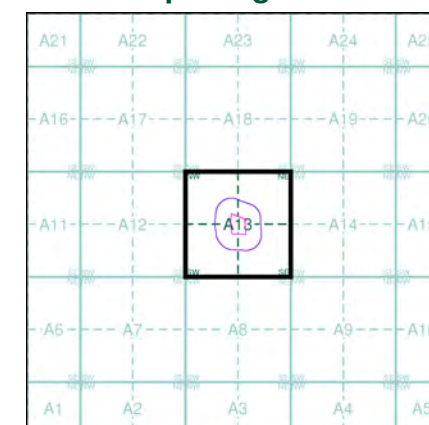
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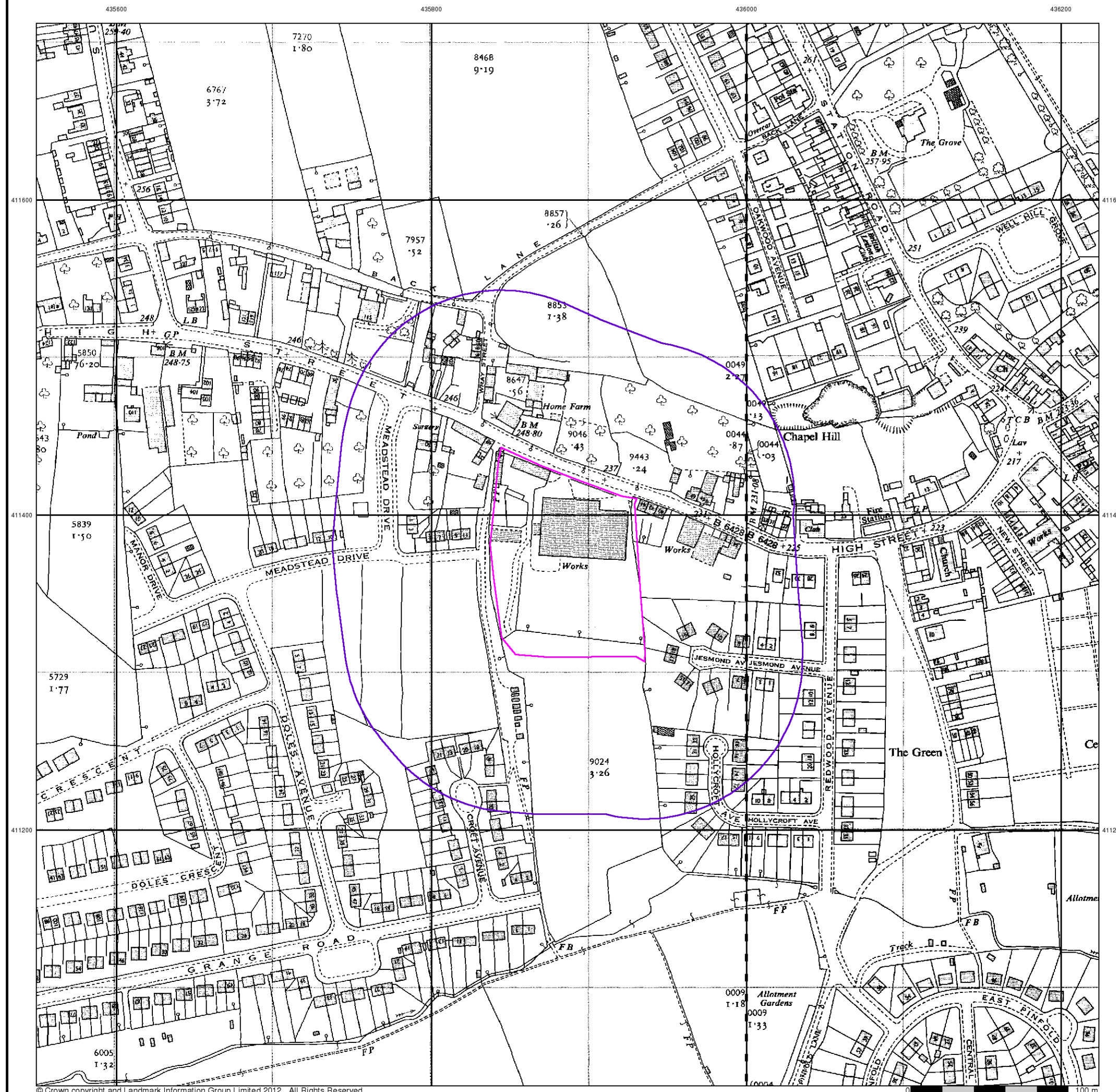
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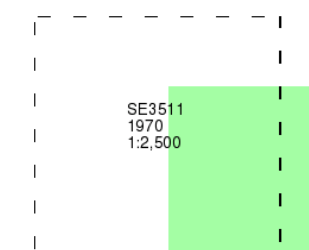
Ordnance Survey Plan

Published 1970

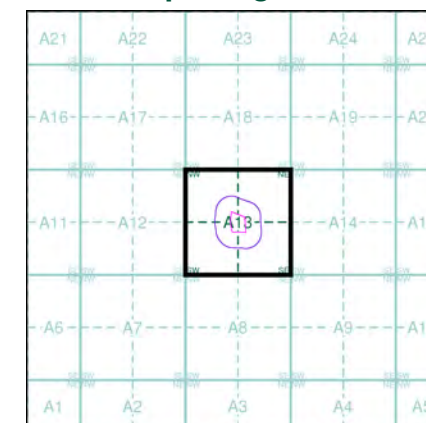
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

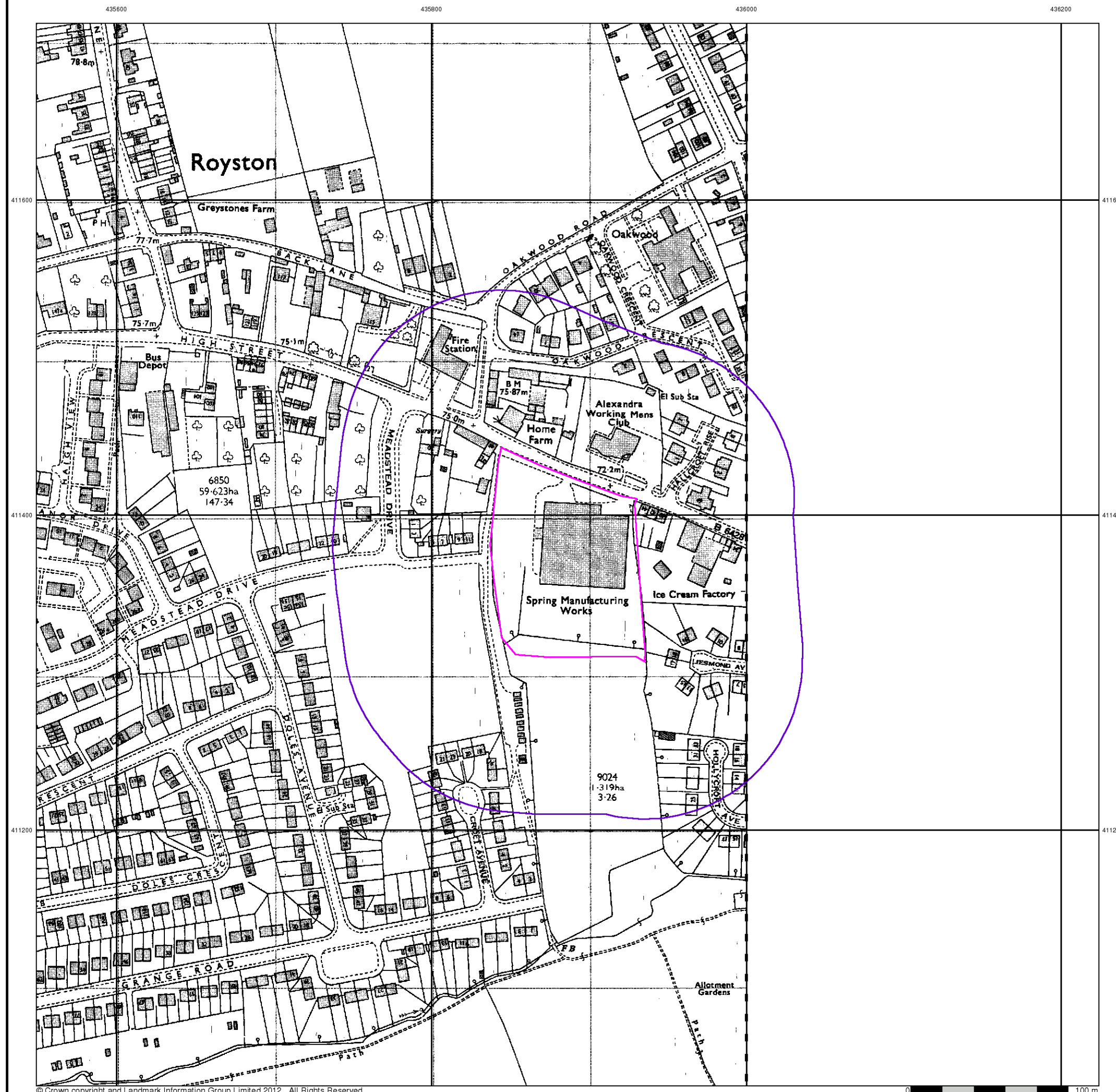
Order Number: 49048552_1_1
Customer Ref: 13690
National Grid Reference: 435890, 411370
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

High Street, Royston, BARNSELEY, South Yorkshire, S71 4RF



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Ordnance Survey Plan

Published 1976 - 1977

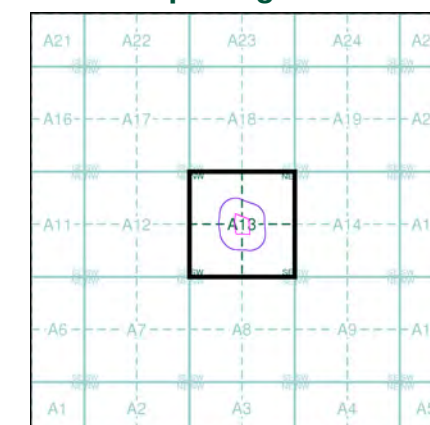
Source map scale - 1:1,250

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)

SE3511NE 1976 1:1,250	SE3611NW 1977 1:1,250
SE3511SE 1976 1:1,250	SE3611SW 1977 1:1,250

Historical Map - Segment A13



Order Details

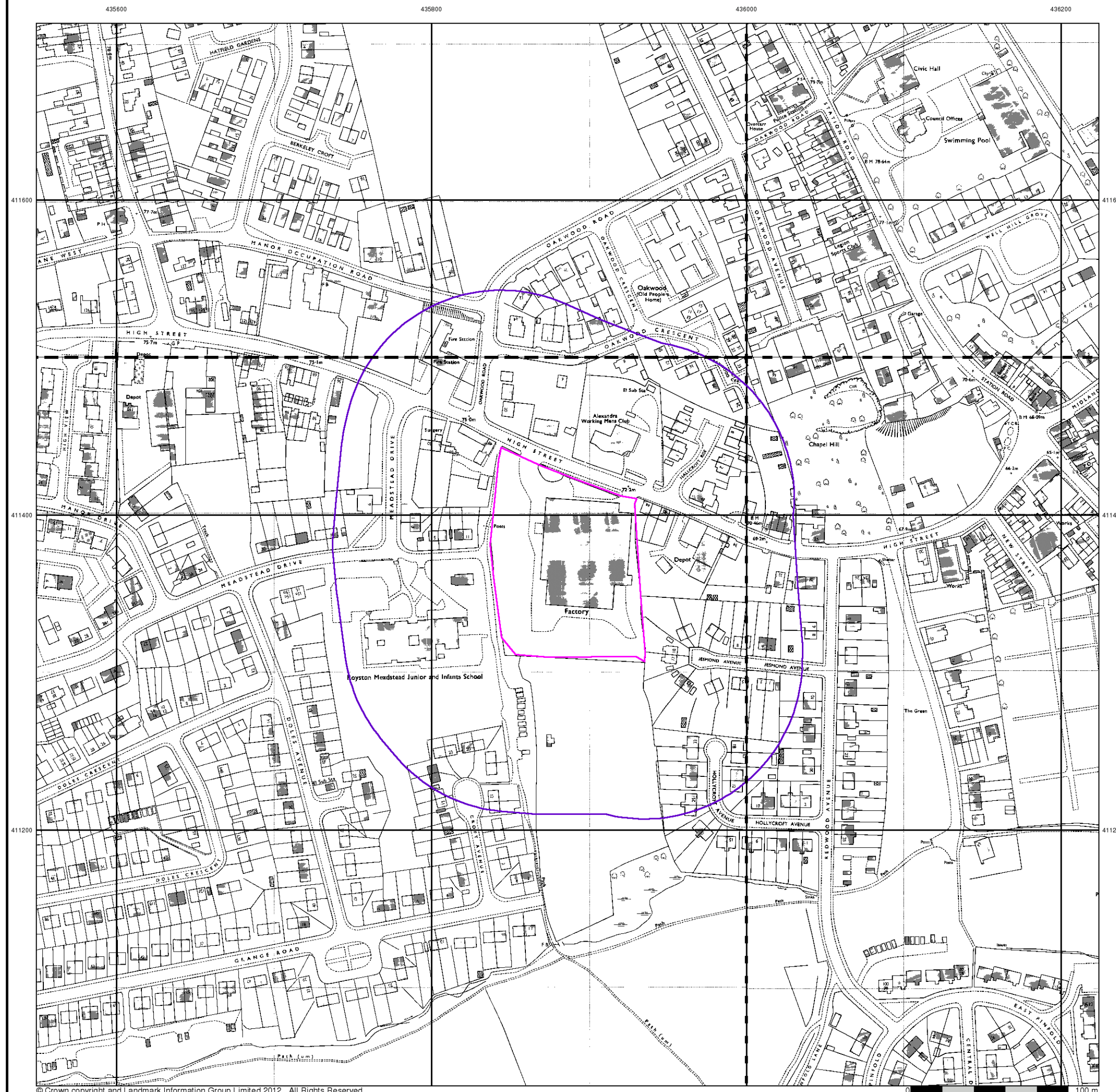
Order Number: 49048552_1_1
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Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

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Additional SIMs

Published 1978 - 1983

Source map scale - 1:1,250

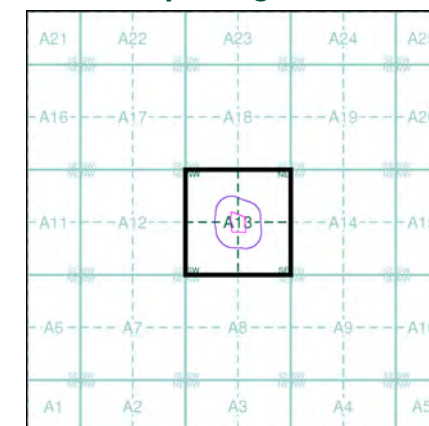
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3511NE
1978
1:1,250

SE3511SE
1983
1:1,250

Historical Map - Segment A13



Order Details

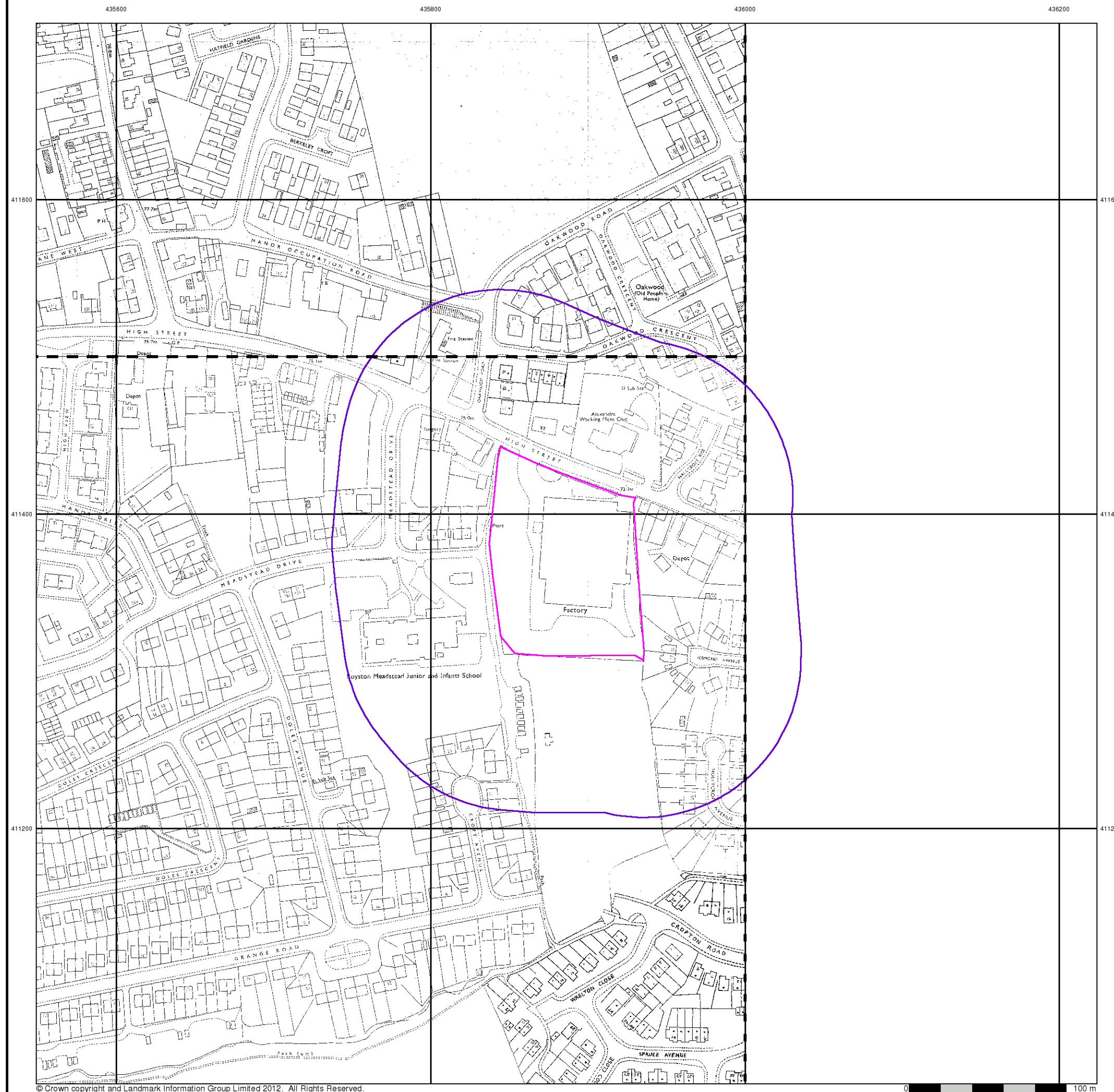
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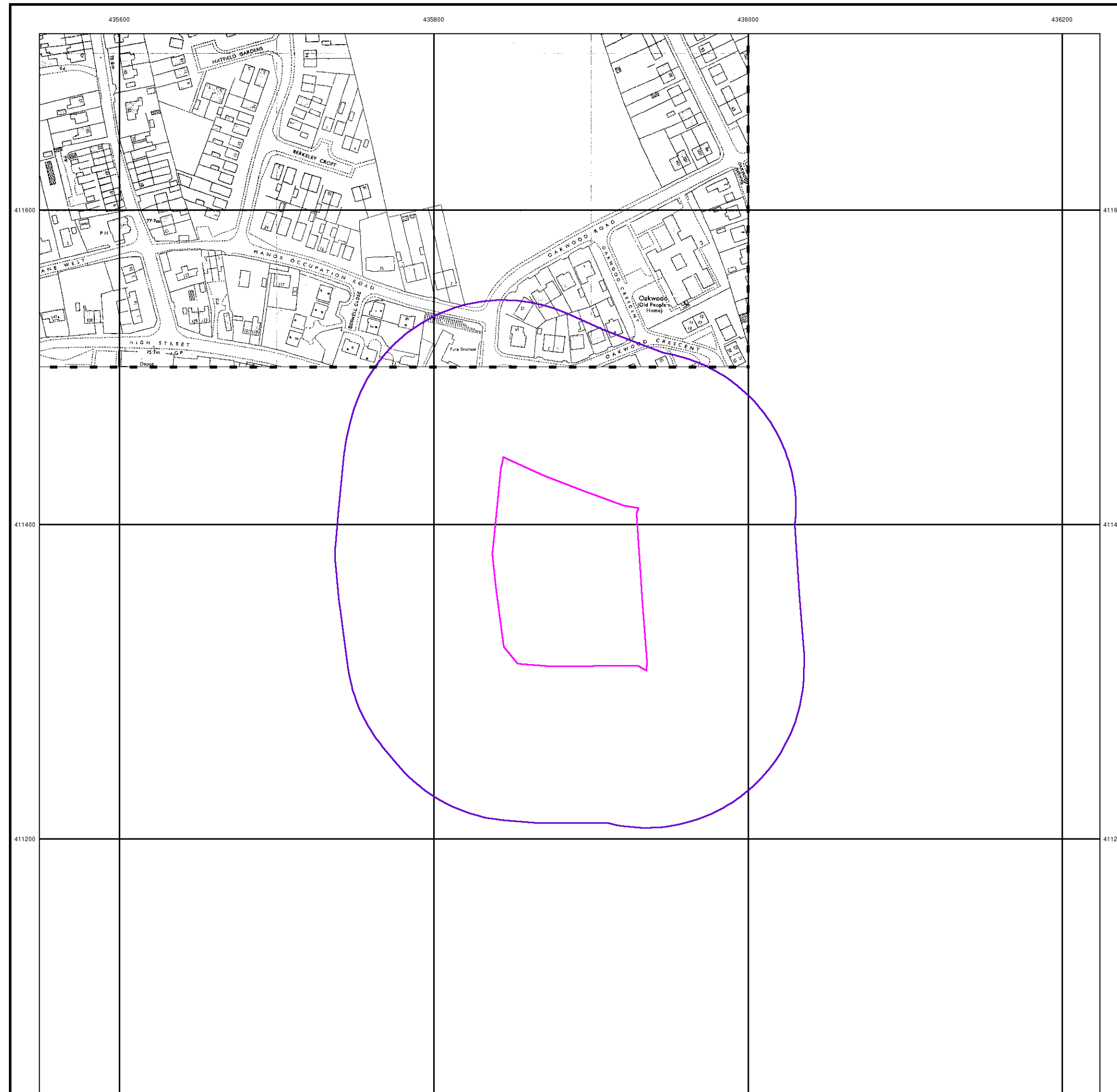
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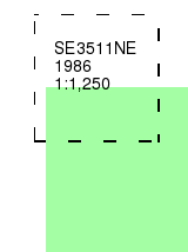
Additional SIMs

Published 1986

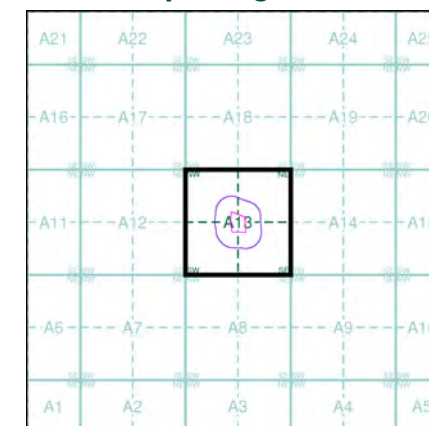
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

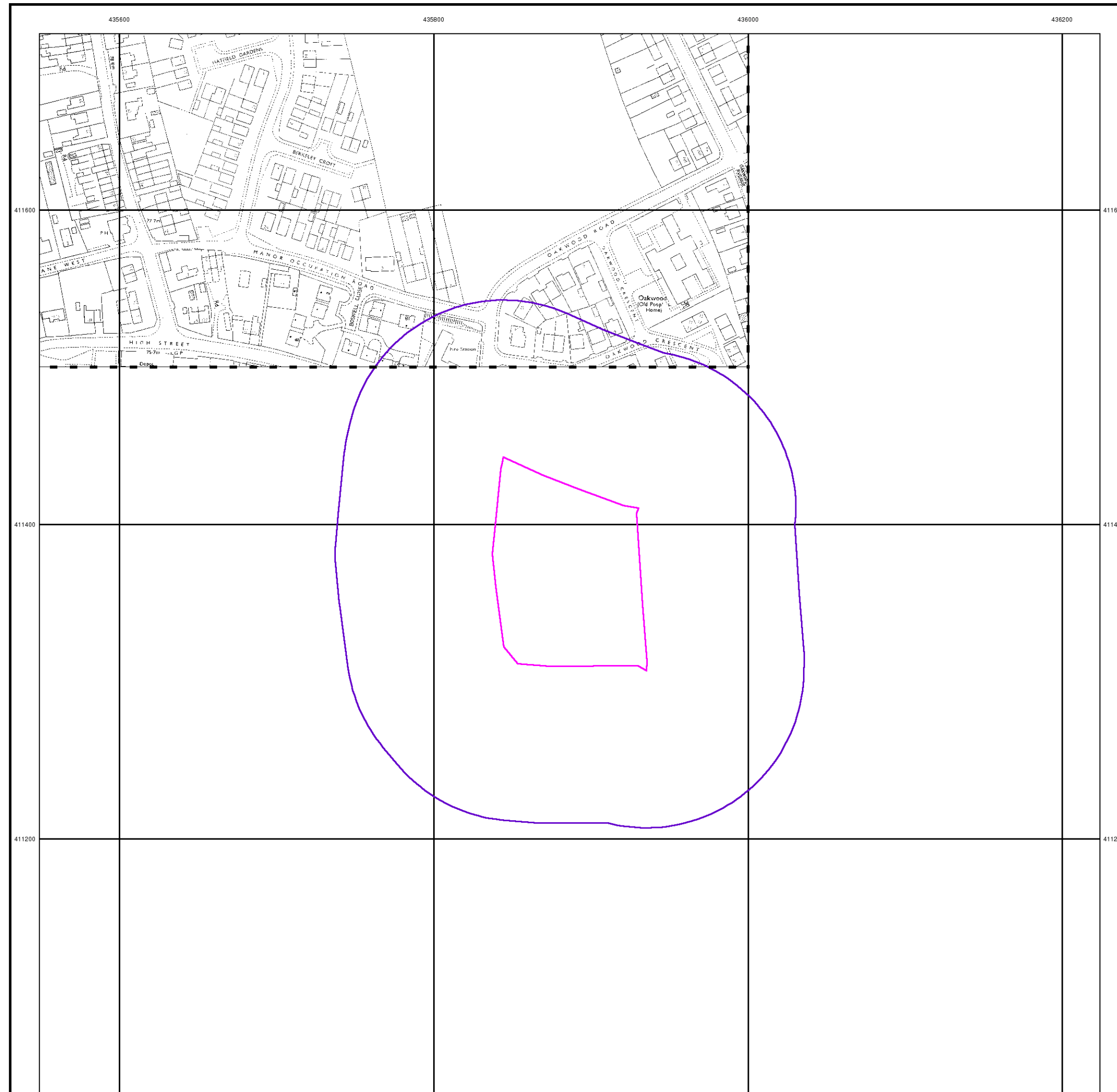
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National Grid Reference: 435890, 411370
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Site Area (Ha): 1.05
Search Buffer (m): 100

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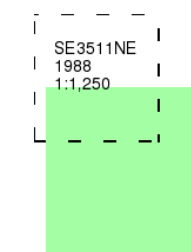
Additional SIMs

Published 1988

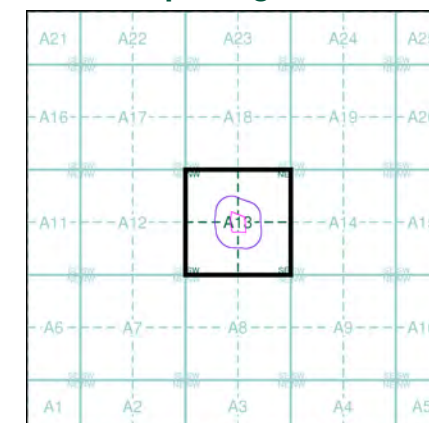
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 49048552_1_1
Customer Ref: 13690
National Grid Reference: 435890, 411370
Slice: A
Site Area (Ha): 1.05
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Large-Scale National Grid Data

Published 1993

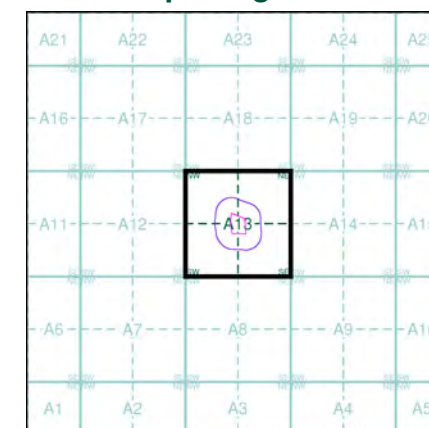
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3511NE 1993 1:1,250	SE3611NW 1993 1:1,250
SE3511SE 1993 1:1,250	SE3611SW 1993 1:1,250

Historical Map - Segment A13



Order Details

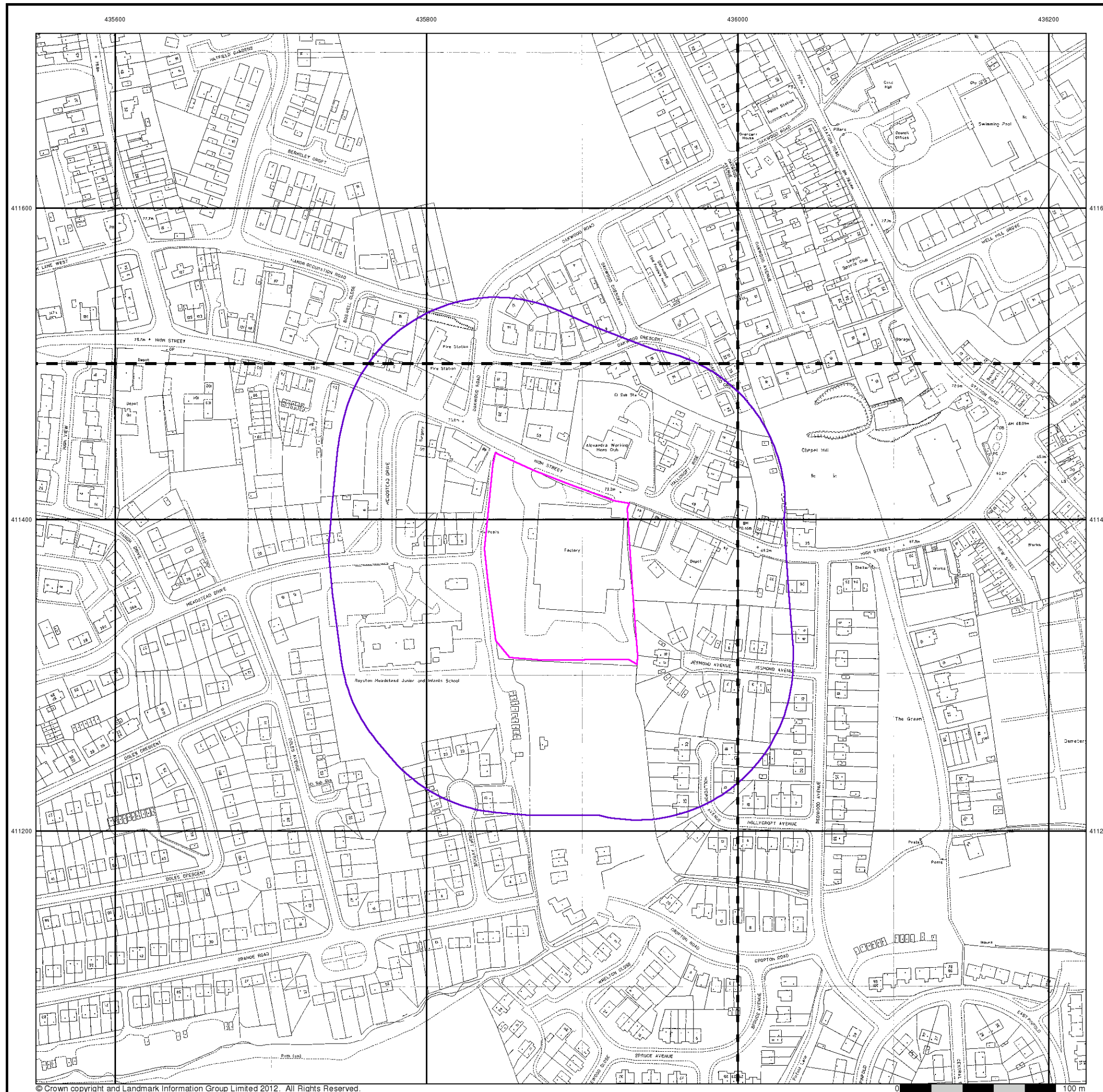
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Customer Ref: 13690
National Grid Reference: 435890, 411370
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1993 - 1995

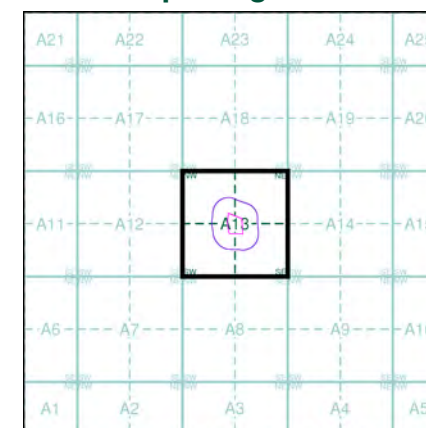
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3611NW	1995	1:1,250
SE3511SE	1993	1:1,250
SE3611SW	1994	1:1,250

Historical Map - Segment A13



Order Details

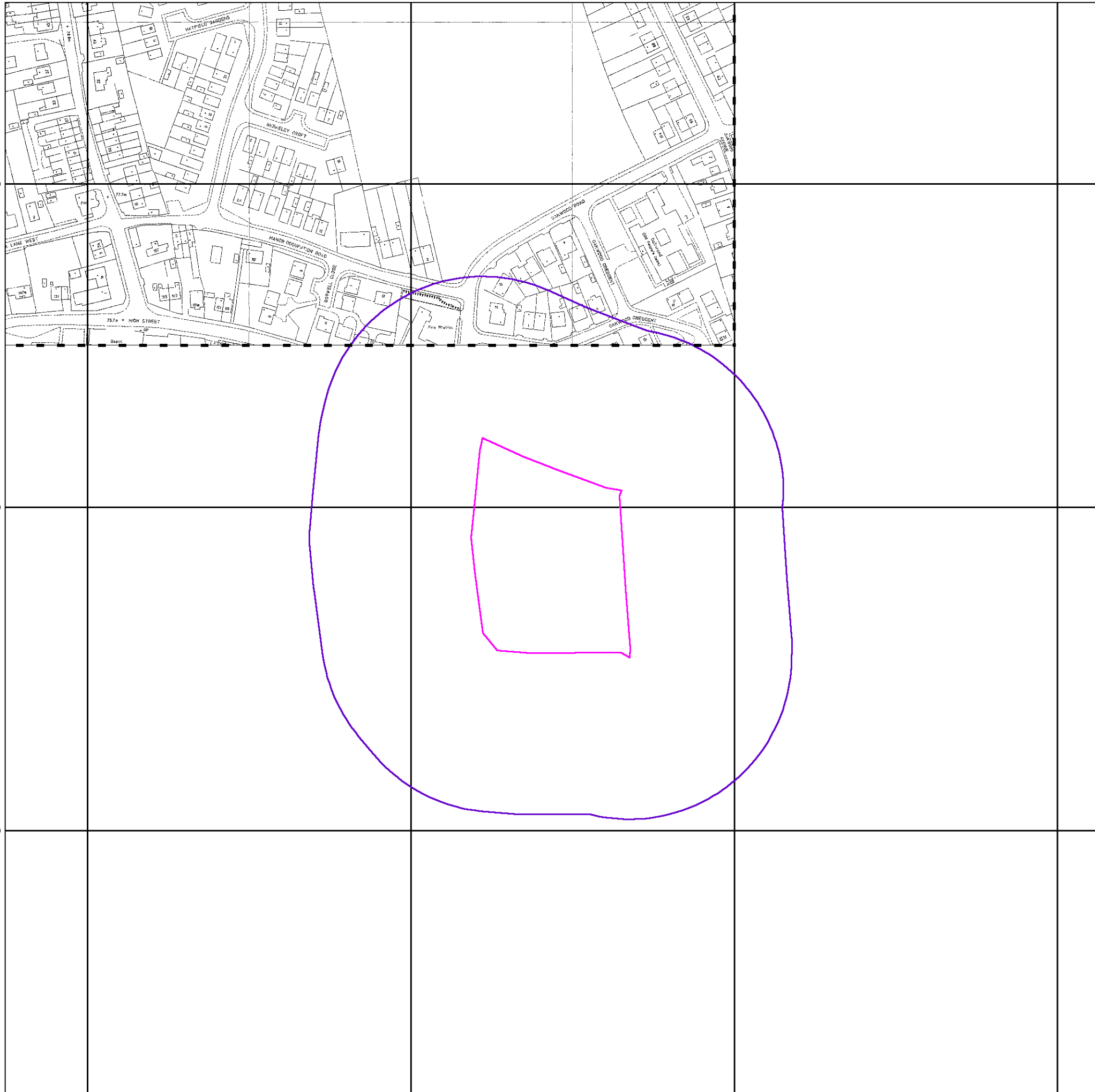
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Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 100

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0 100 m



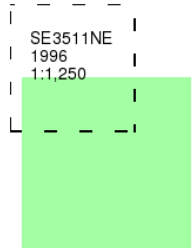
Large-Scale National Grid Data

Published 1996

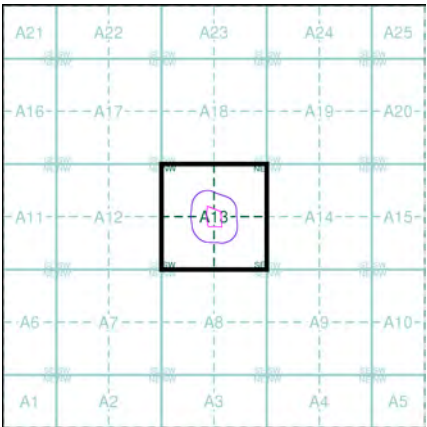
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 49048552_1_1
Customer Ref: 13690
National Grid Reference: 435890, 411370
Slice: A
Site Area (Ha): 1.05
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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
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	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
	Civil Parish		
	BP, BS		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

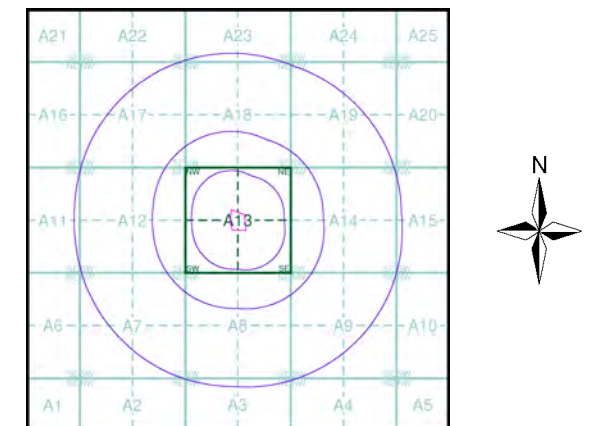
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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
	Mean high water (springs)		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
Yorkshire	1:10,560	1854	2
Yorkshire	1:10,560	1894 - 1895	3
Yorkshire	1:10,560	1907 - 1908	4
Yorkshire	1:10,560	1930	5
Yorkshire	1:10,560	1932 - 1933	6
Yorkshire	1:10,560	1938 - 1948	7
Yorkshire	1:10,560	1938 - 1948	8
Yorkshire	1:10,560	1948	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1965 - 1966	11
Ordnance Survey Plan	1:10,000	1980 - 1981	12
Ordnance Survey Plan	1:10,000	1990 - 1991	13
10K Raster Mapping	1:10,000	2006	14
10K Raster Mapping	1:10,000	2013	15

Historical Map - Slice A



Order Details

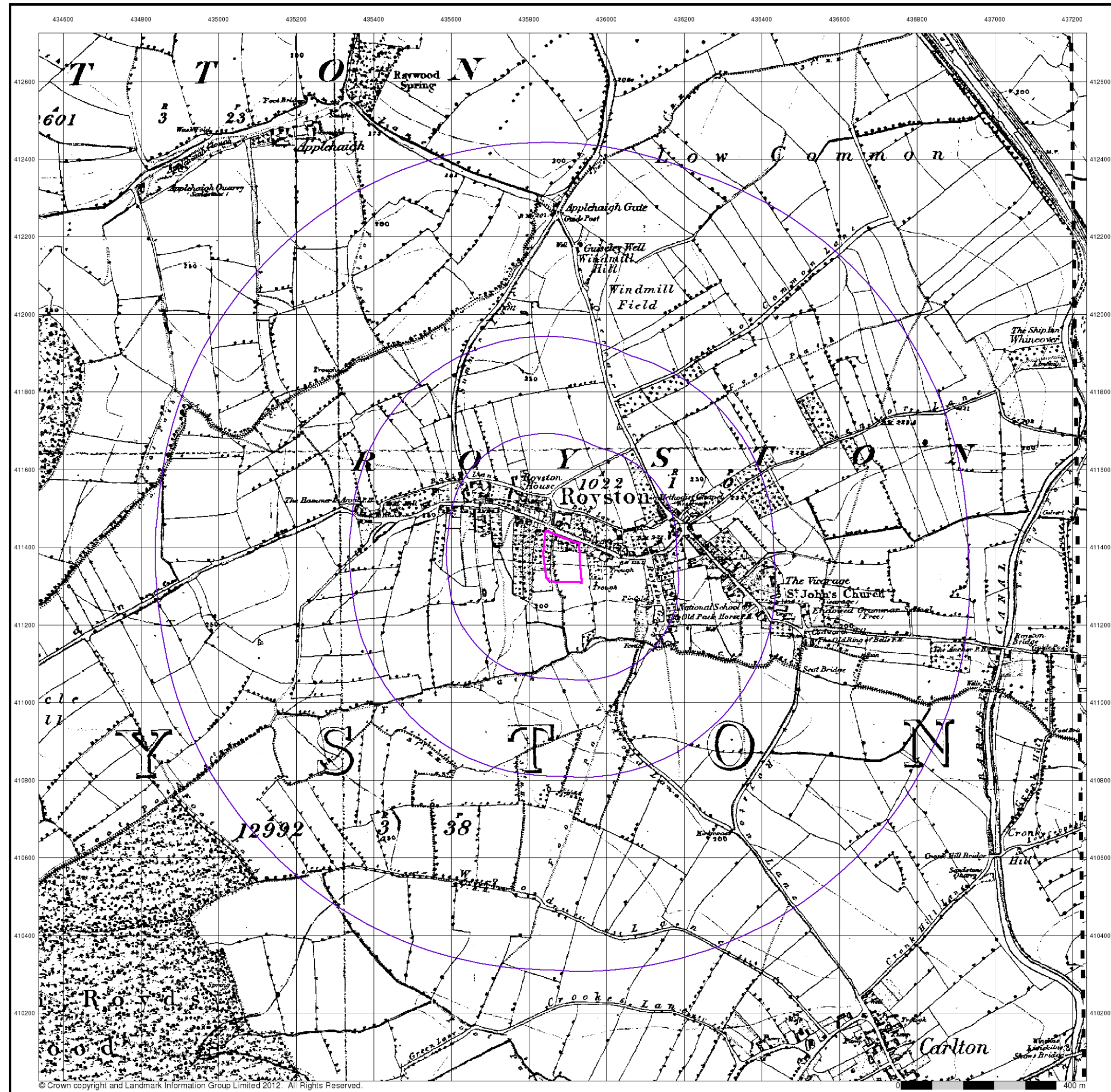
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 Customer Ref: 13690
 National Grid Reference: 435890, 411370
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 Site Area (Ha): 1.05
 Search Buffer (m): 1000

Site Details

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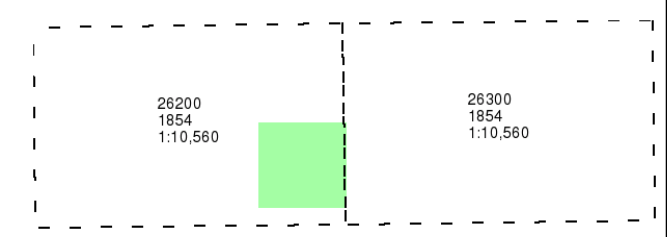
Yorkshire

Published 1854

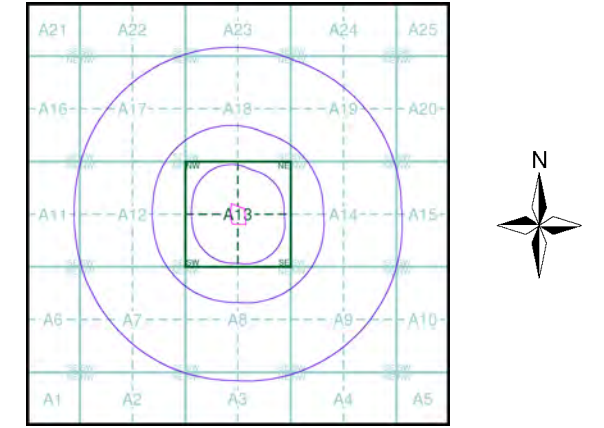
Source map scale - 1:10,560

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 A



Order Details

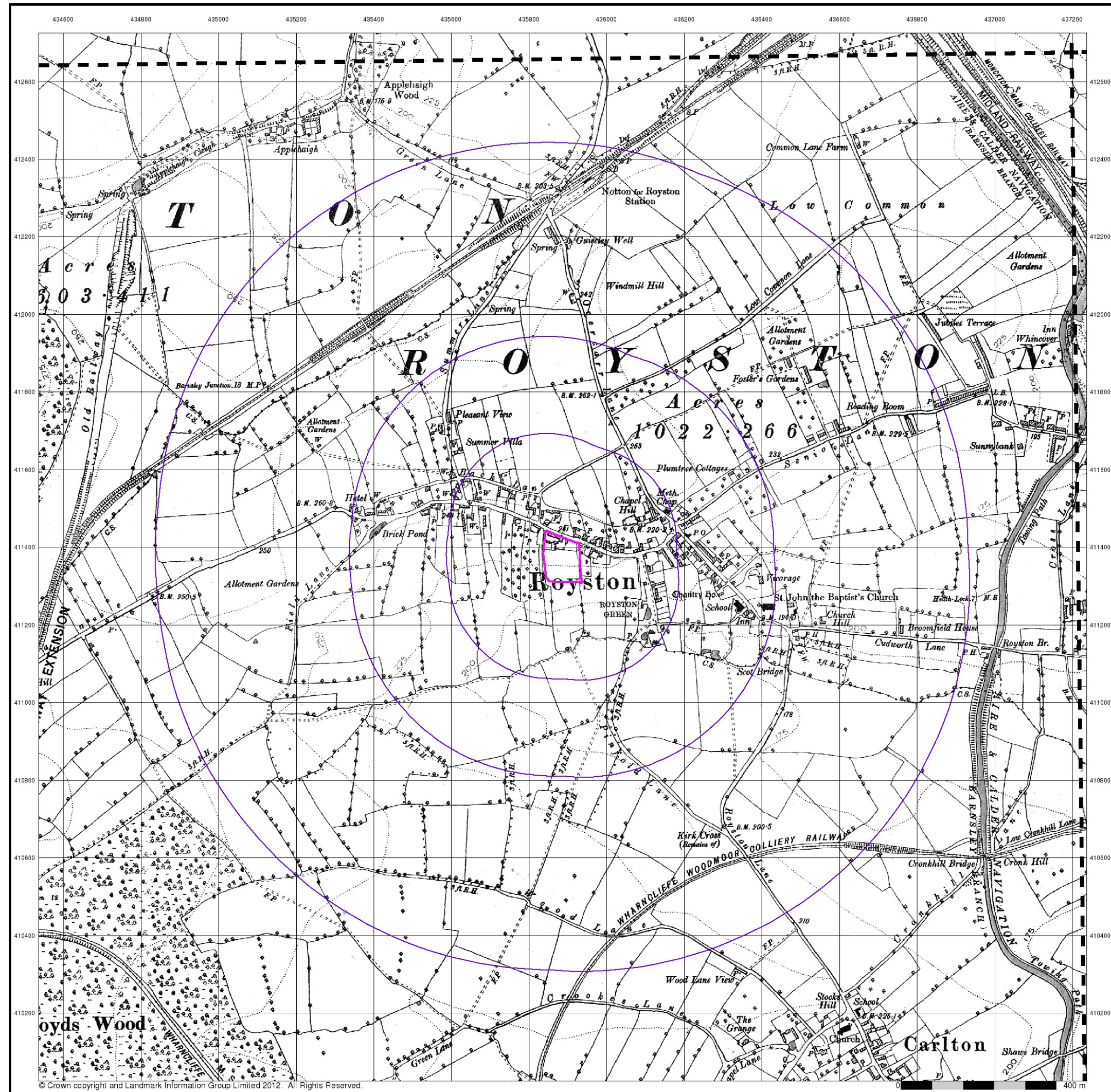
Order Number: 49048552_1_1
Customer Ref: 13690
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Site Area (Ha): 1.05
Search Buffer (m): 1000

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Yorkshire

Published 1894 - 1895

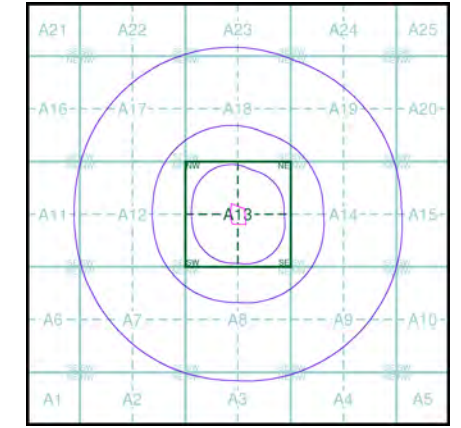
Source map scale - 1:10,560

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)

262NE 1895 1:10,560	263NW 1894 1:10,560
262SE 1894 1:10,560	263SW 1894 1:10,560

Historical Map - Slice A



Order Details

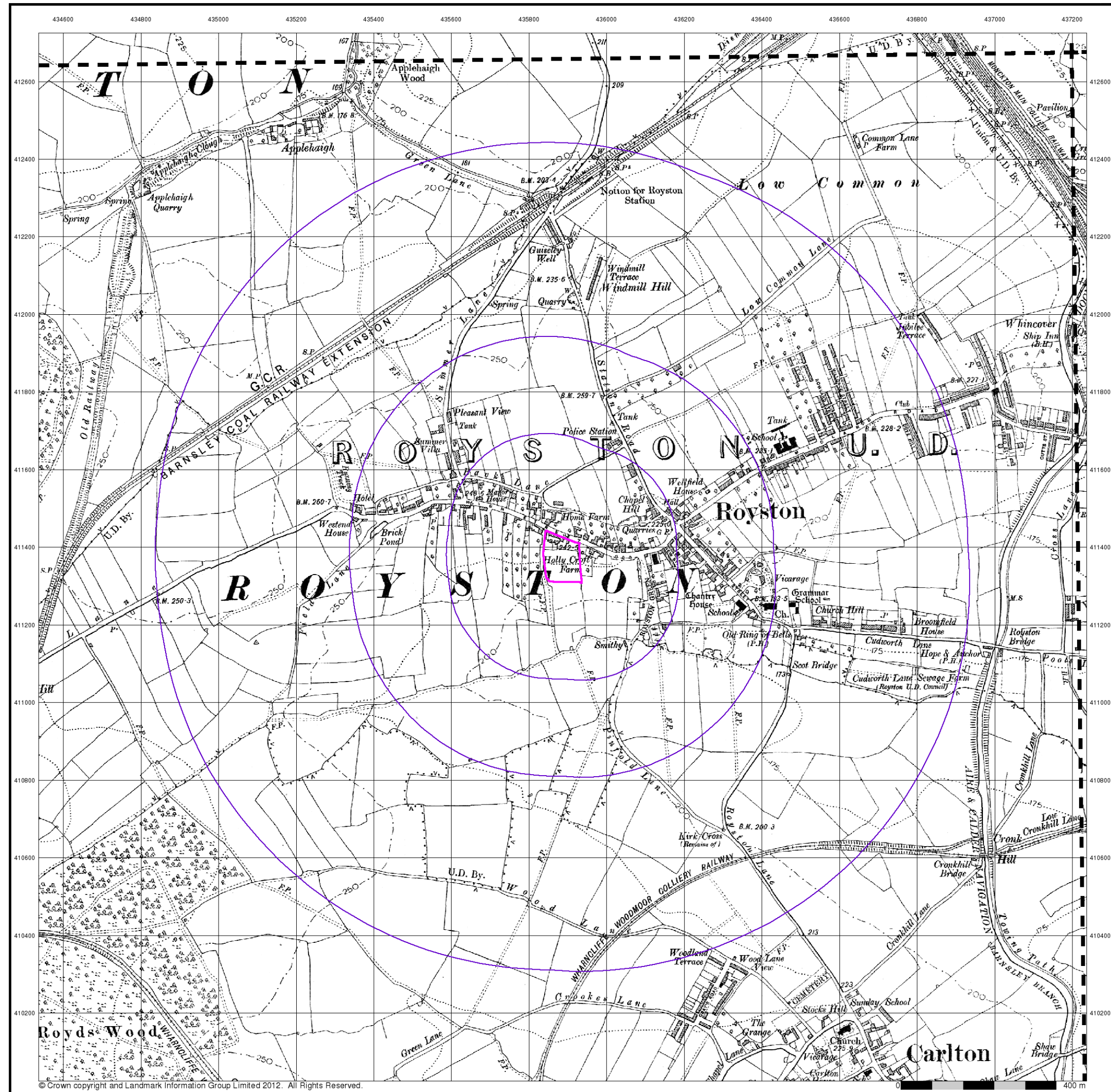
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Customer Ref: 13690
National Grid Reference: 435890, 411370
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Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

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Yorkshire

Published 1907 - 1908

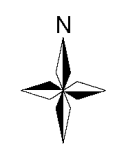
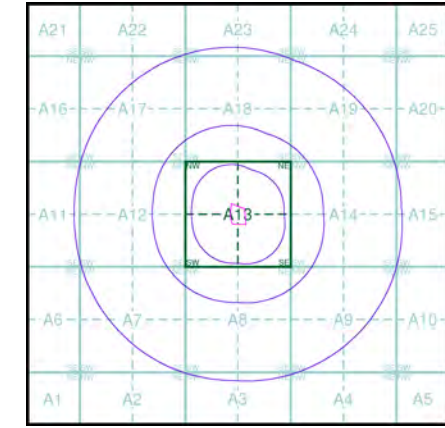
Source map scale - 1:10,560

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)

262NE 1908 1:10,560	263NW 1907 1:10,560
262SE 1907 1:10,560	263SW 1907 1:10,560

Historical Map - Slice A



Order Details

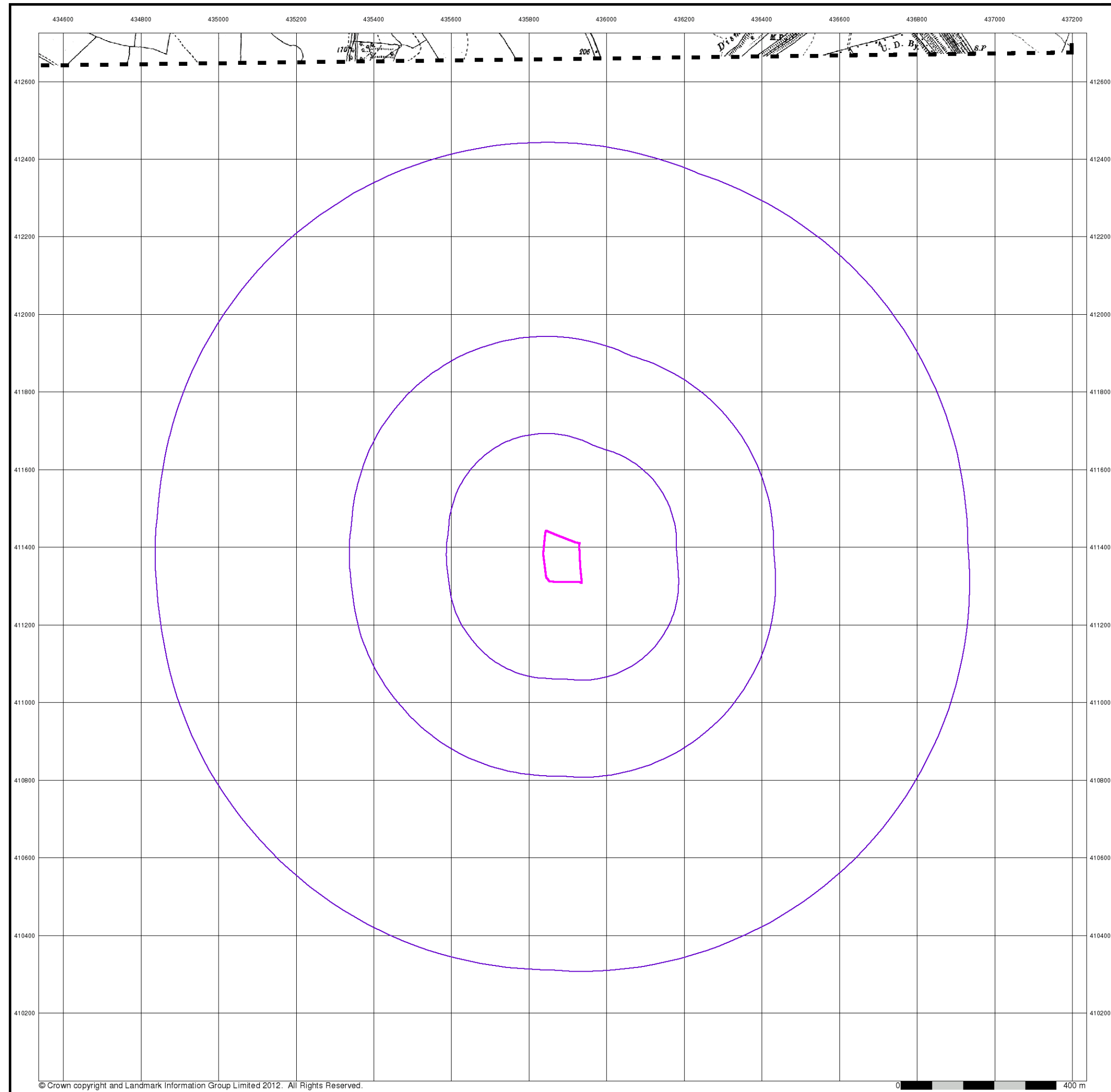
Order Number: 49048552_1_1
Customer Ref: 13690
National Grid Reference: 435890, 411370
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

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Yorkshire

Published 1930

Source map scale - 1:10,560

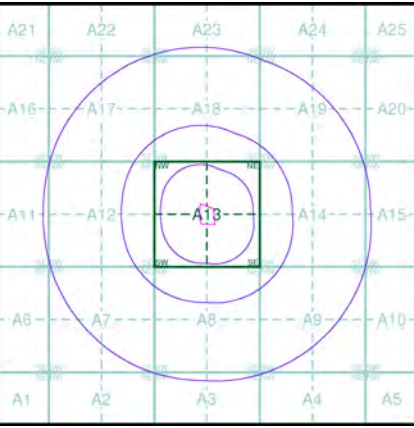
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

262NE
1930
1:10,560



Historical Map - Slice A



Order Details

Order Number:	49048552_1_1
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National Grid Reference:	435890, 411370
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Site Area (Ha):	1.05
Search Buffer (m):	1000

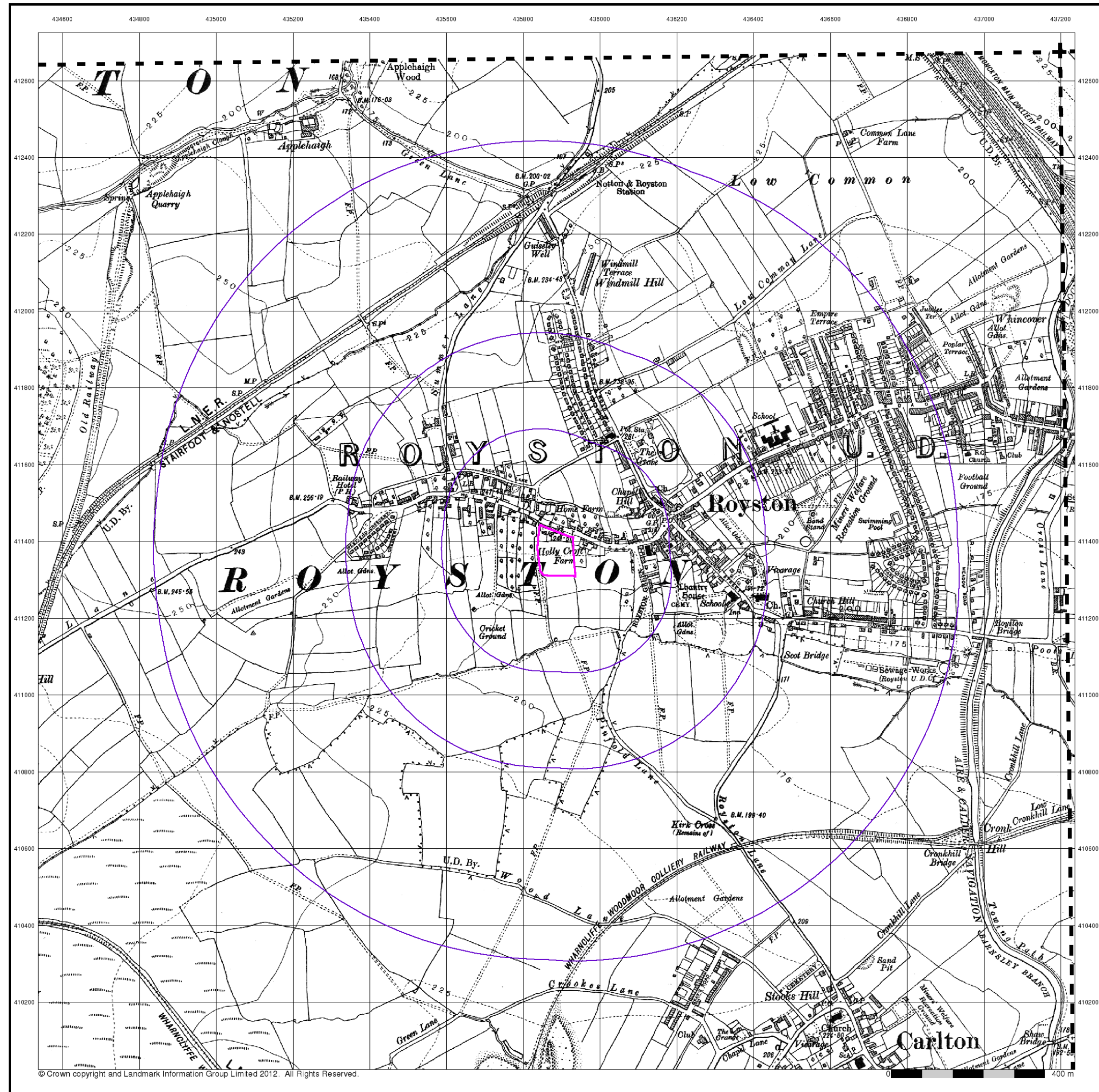
Site Details

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A Landmark Information Group Service v47.0 10-Sep-2013 Page 5 of 15



Yorkshire

Published 1932 - 1933

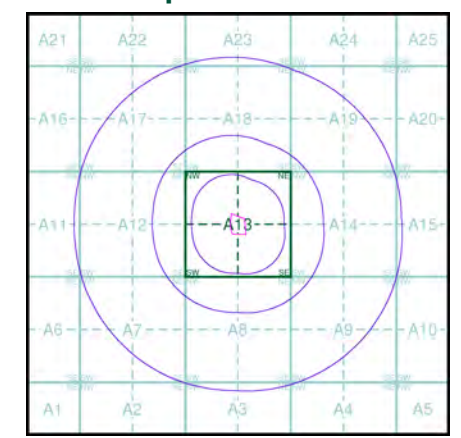
Source map scale - 1:10,560

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)

263NW 1933 1:10,560	263SW 1933 1:10,560
262SE 1932 1:10,560	

Historical Map - Slice A



Order Details

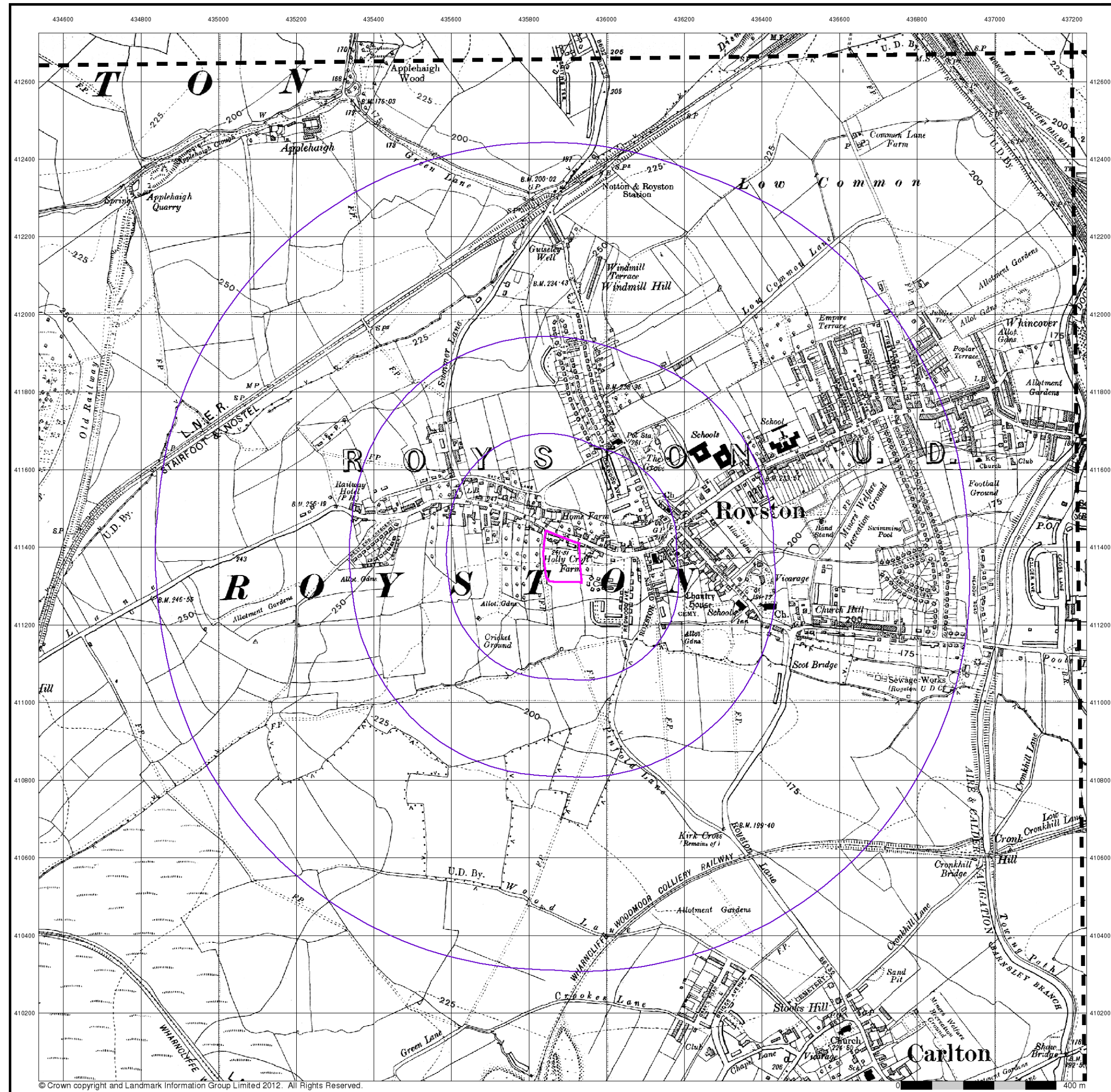
Order Number: 49048552_1_1
Customer Ref: 13690
National Grid Reference: 435890, 411370
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

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Yorkshire

Published 1938 - 1948

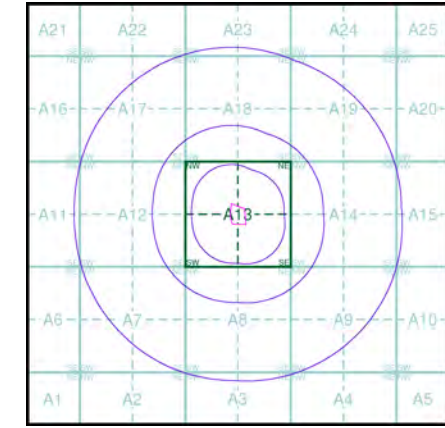
Source map scale - 1:10,560

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)

262NE 1948 1:10,560	263NW 1938 1:10,560
262SE 1938 1:10,560	263SW 1938 1:10,560

Historical Map - Slice A



Order Details

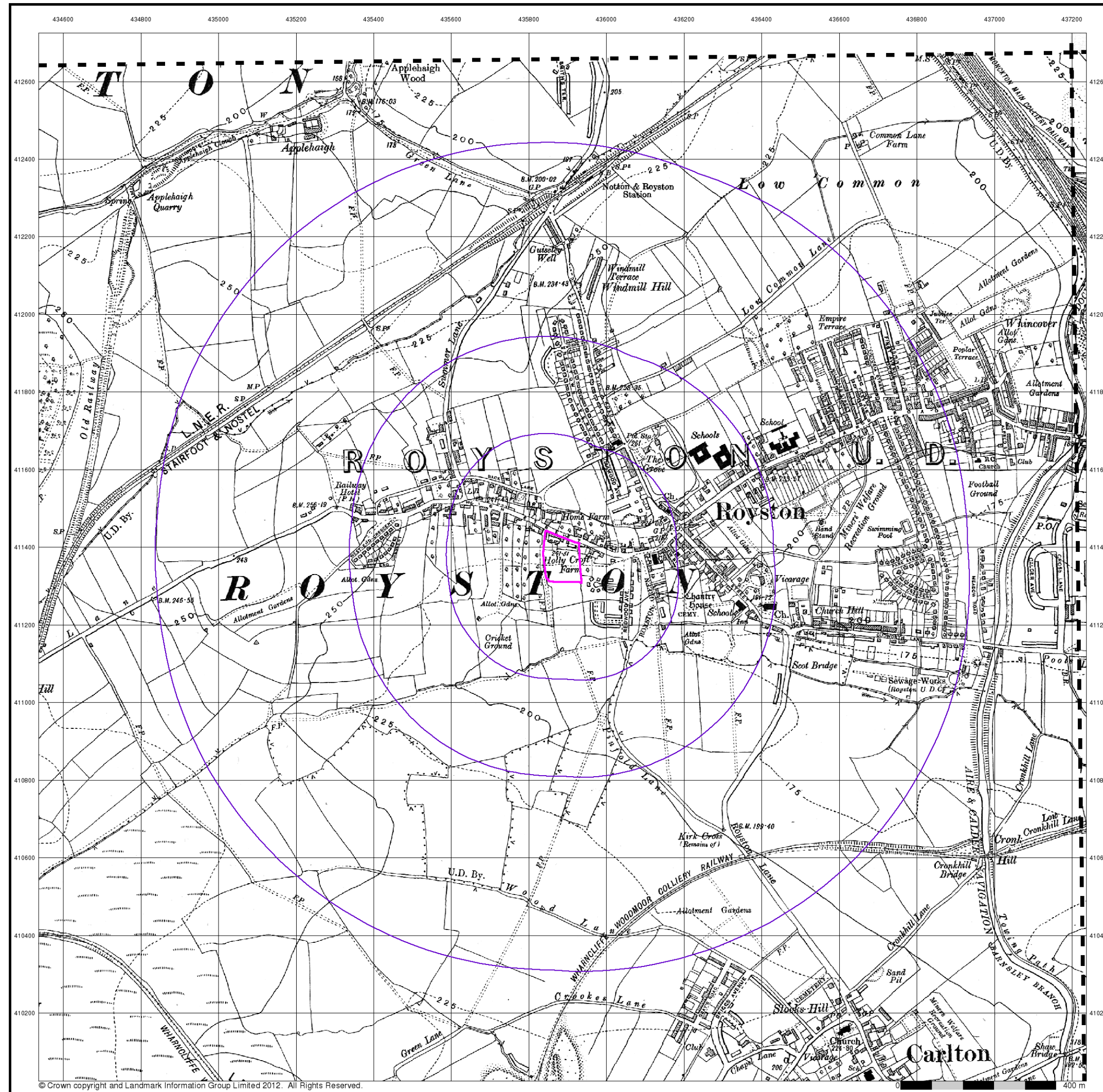
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National Grid Reference: 435890, 411370
Slice: A
Site Area (Ha): 1.05
Search Buffer (m): 1000

Site Details

High Street, Royston, BARNSELY, South Yorkshire, S71 4RF



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Yorkshire

Published 1938 - 1948

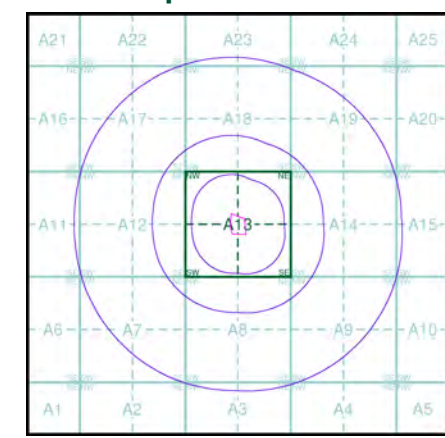
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Map Name(s) and Date(s)

263NW 1948 1:10,560	263SW 1938 1:10,560
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Historical Map - Slice A



Order Details

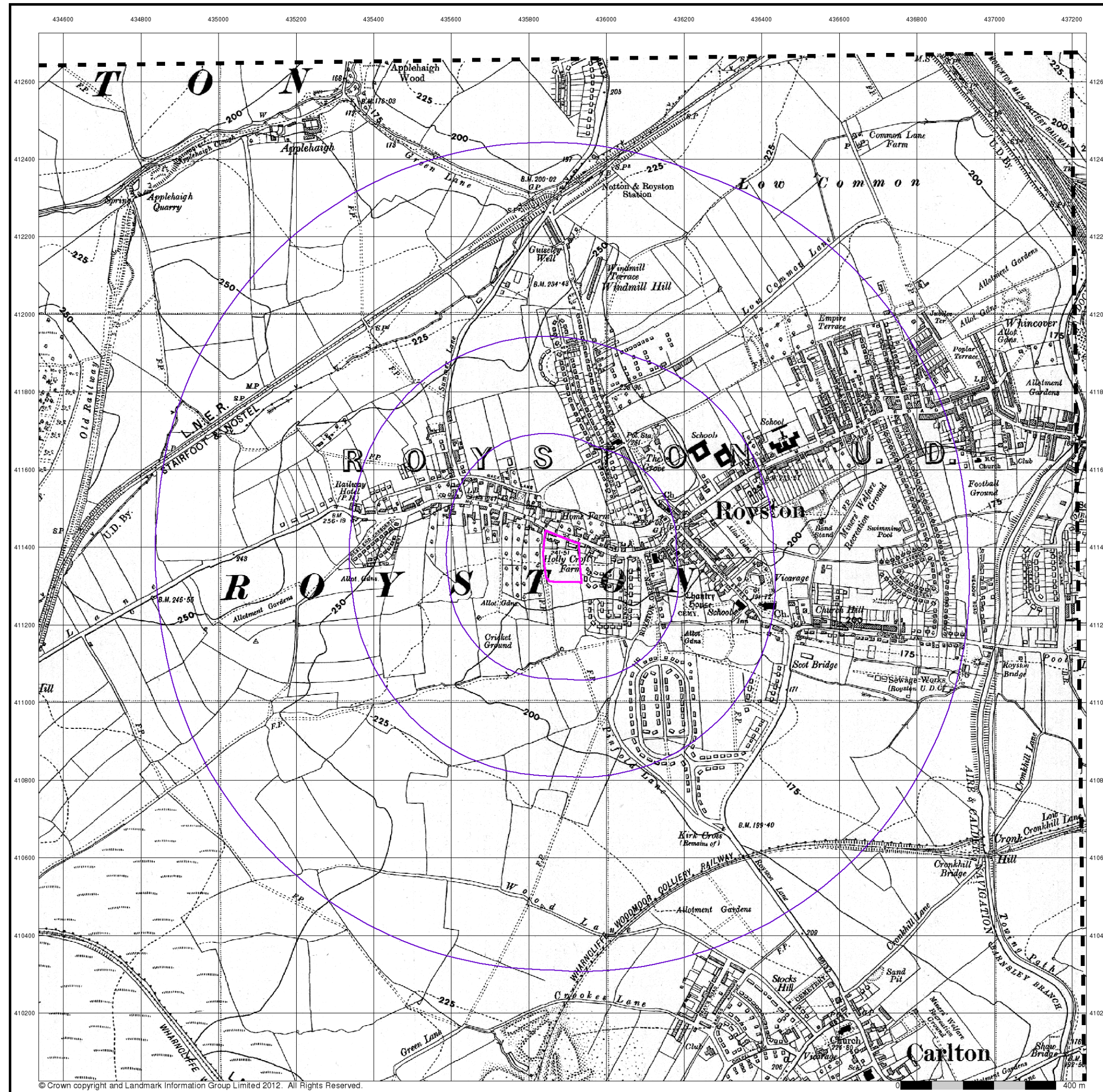
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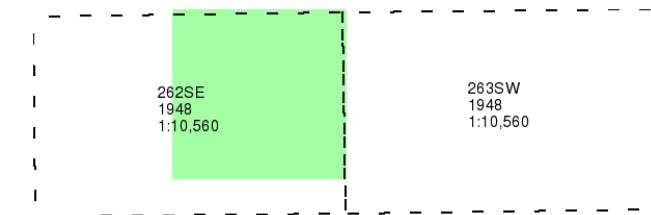
Yorkshire

Published 1948

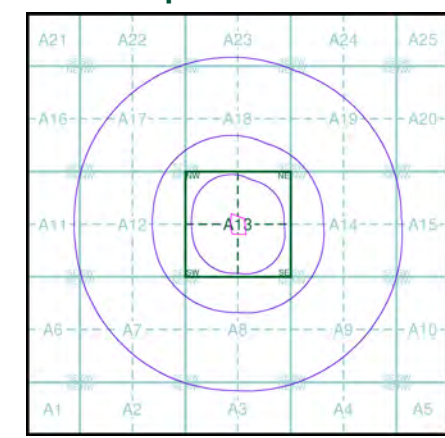
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

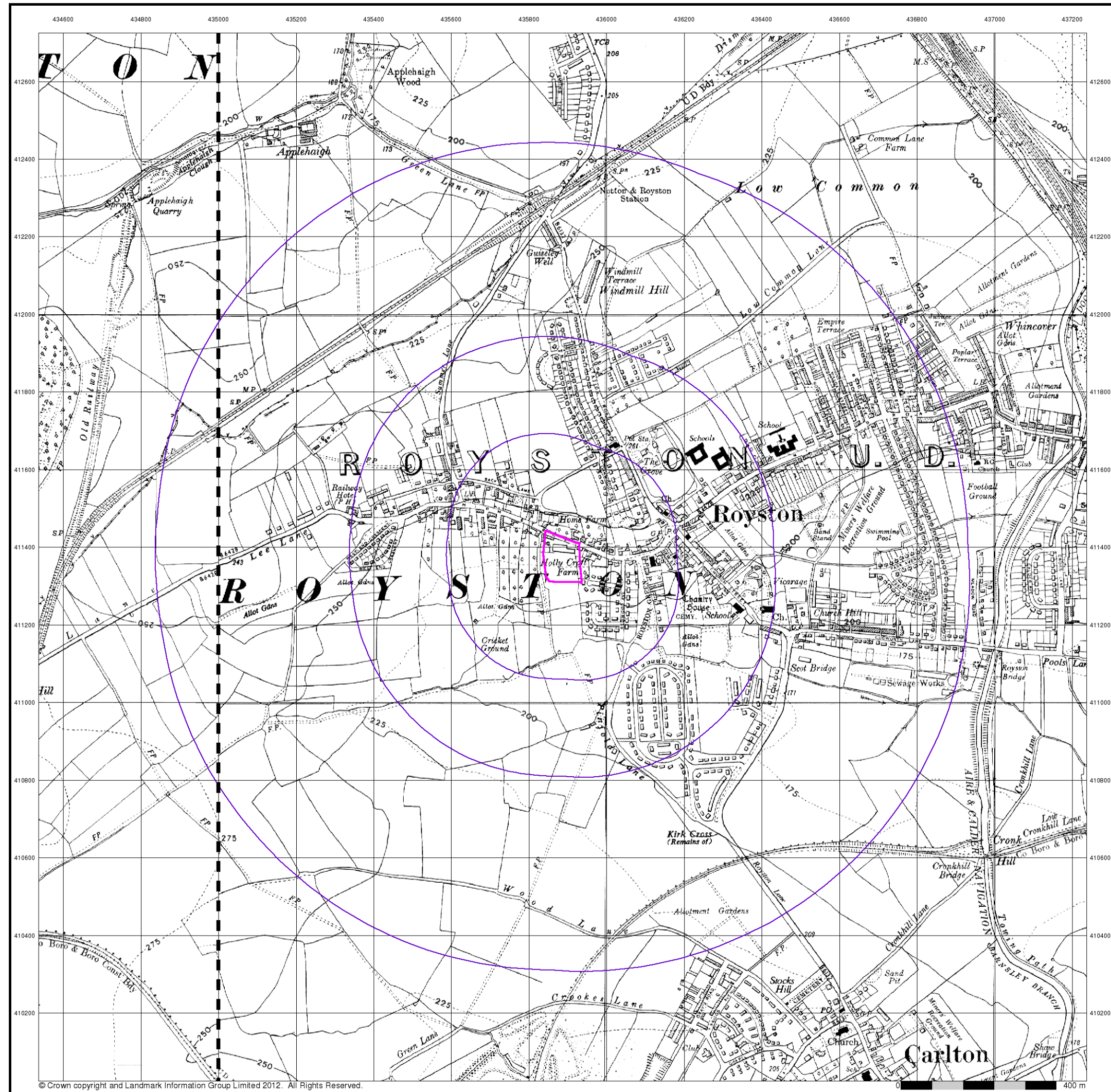
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Search Buffer (m): 1000

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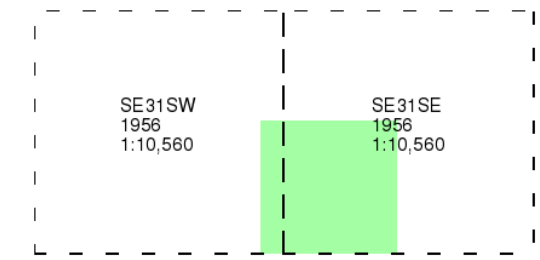
Ordnance Survey Plan

Published 1956

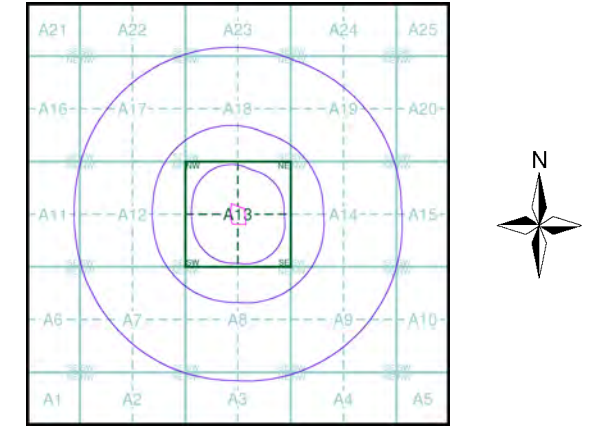
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