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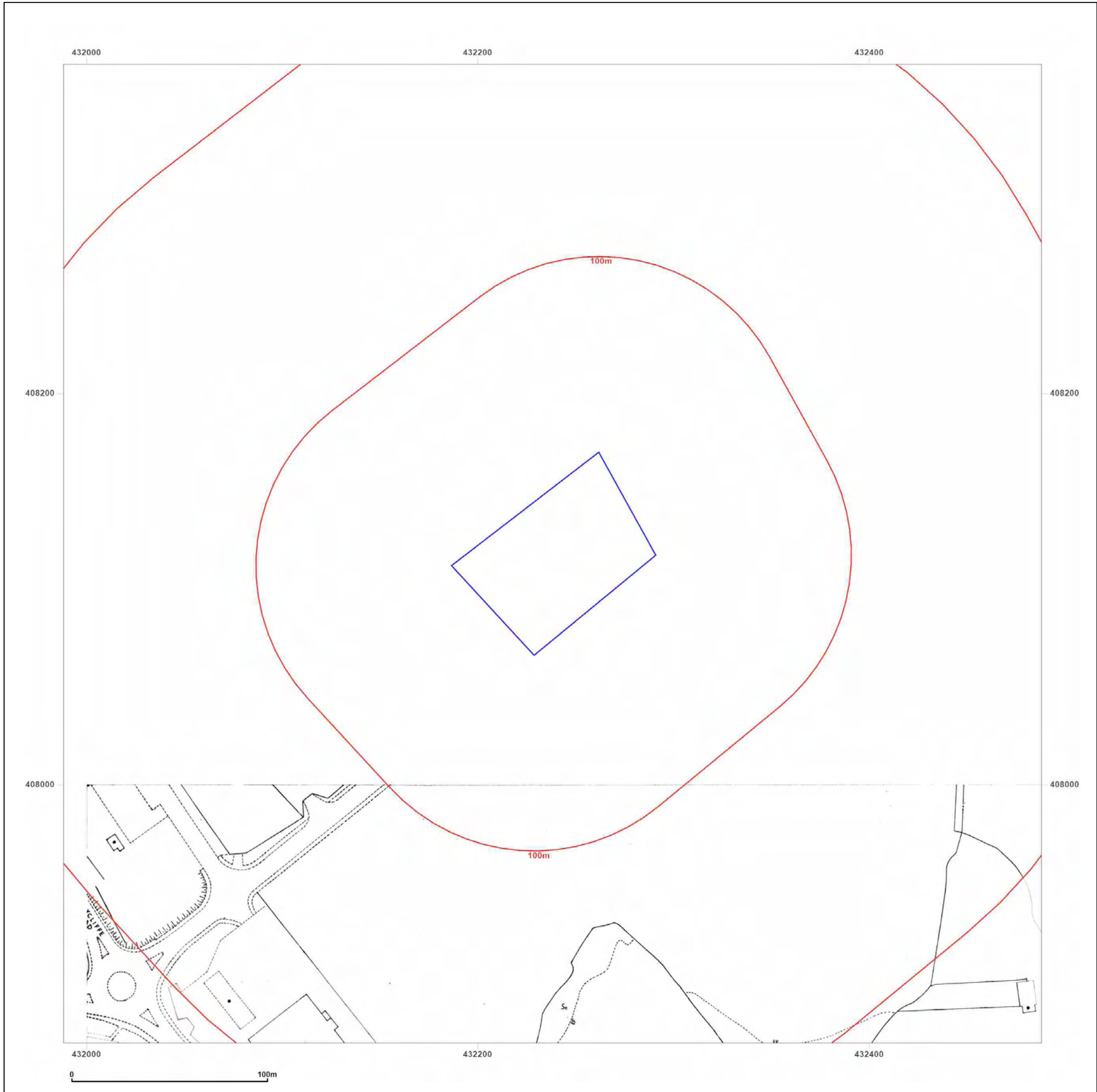
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Grid Ref: 432238, 408118

Map Name: National Grid

Map date: 1991

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
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 Edition N/A
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Site Details:

Whaley Road, Barnsley

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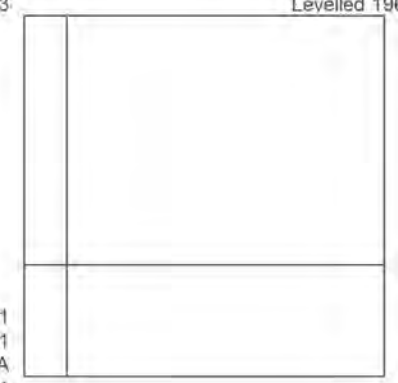
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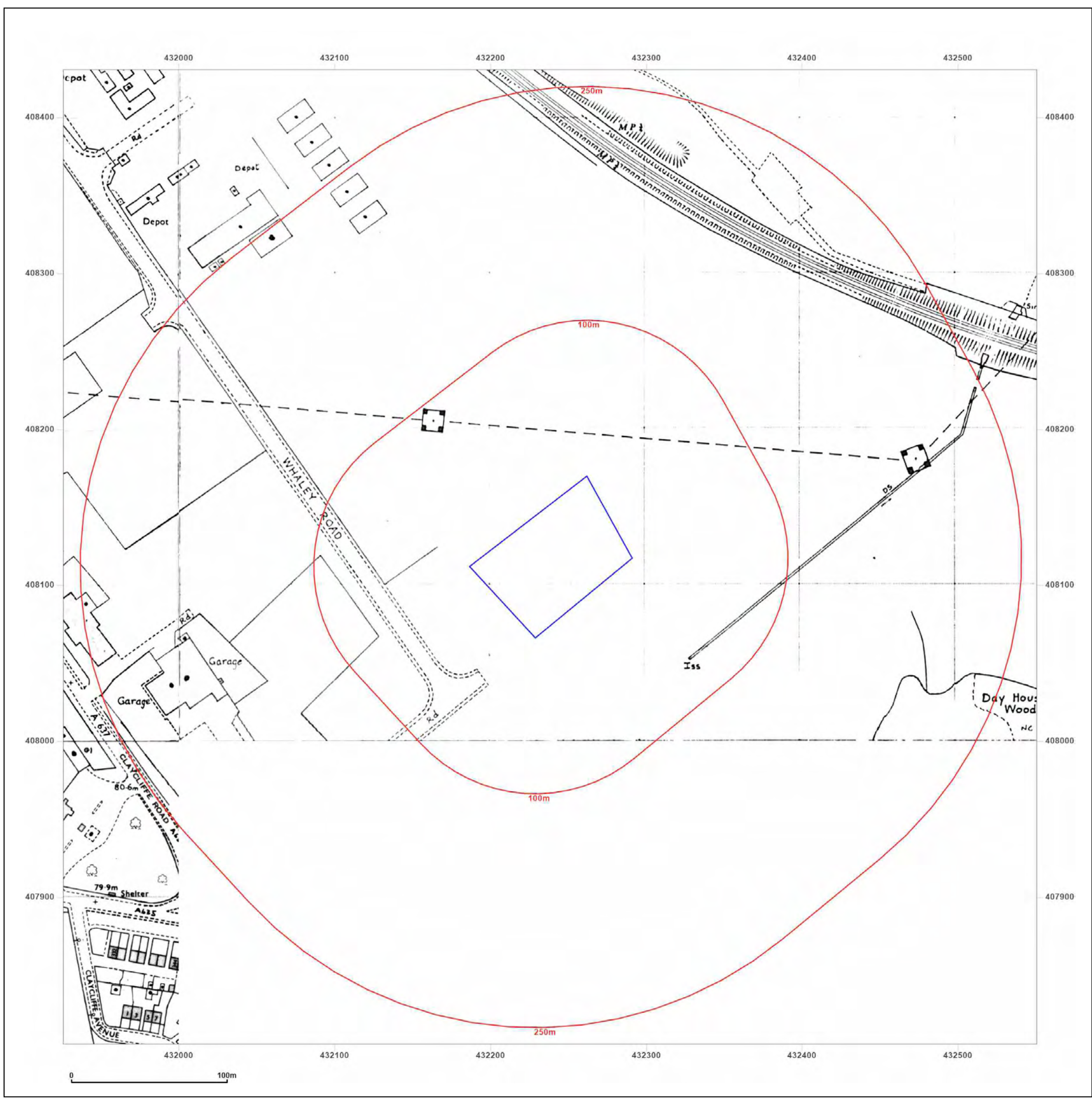


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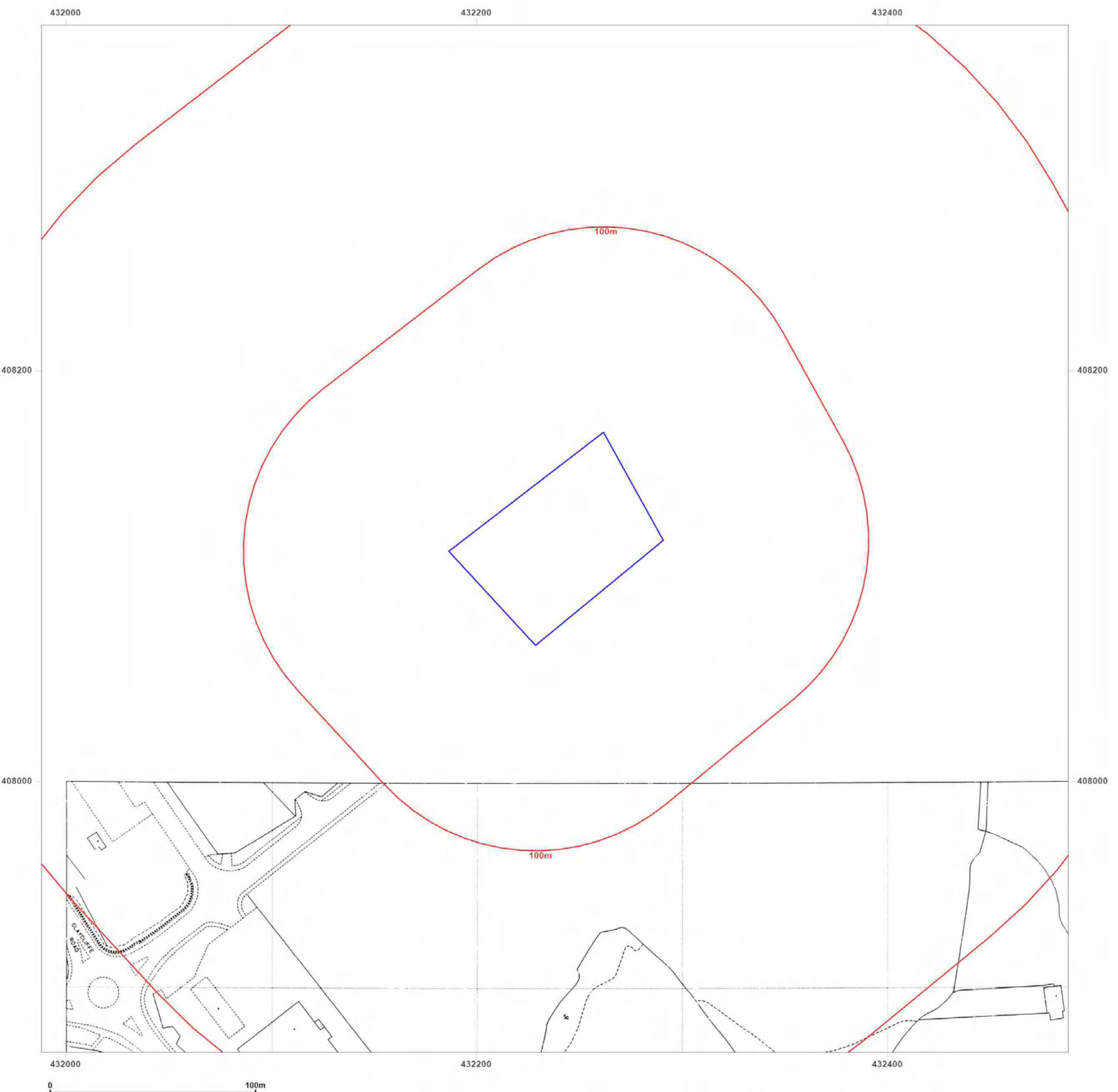
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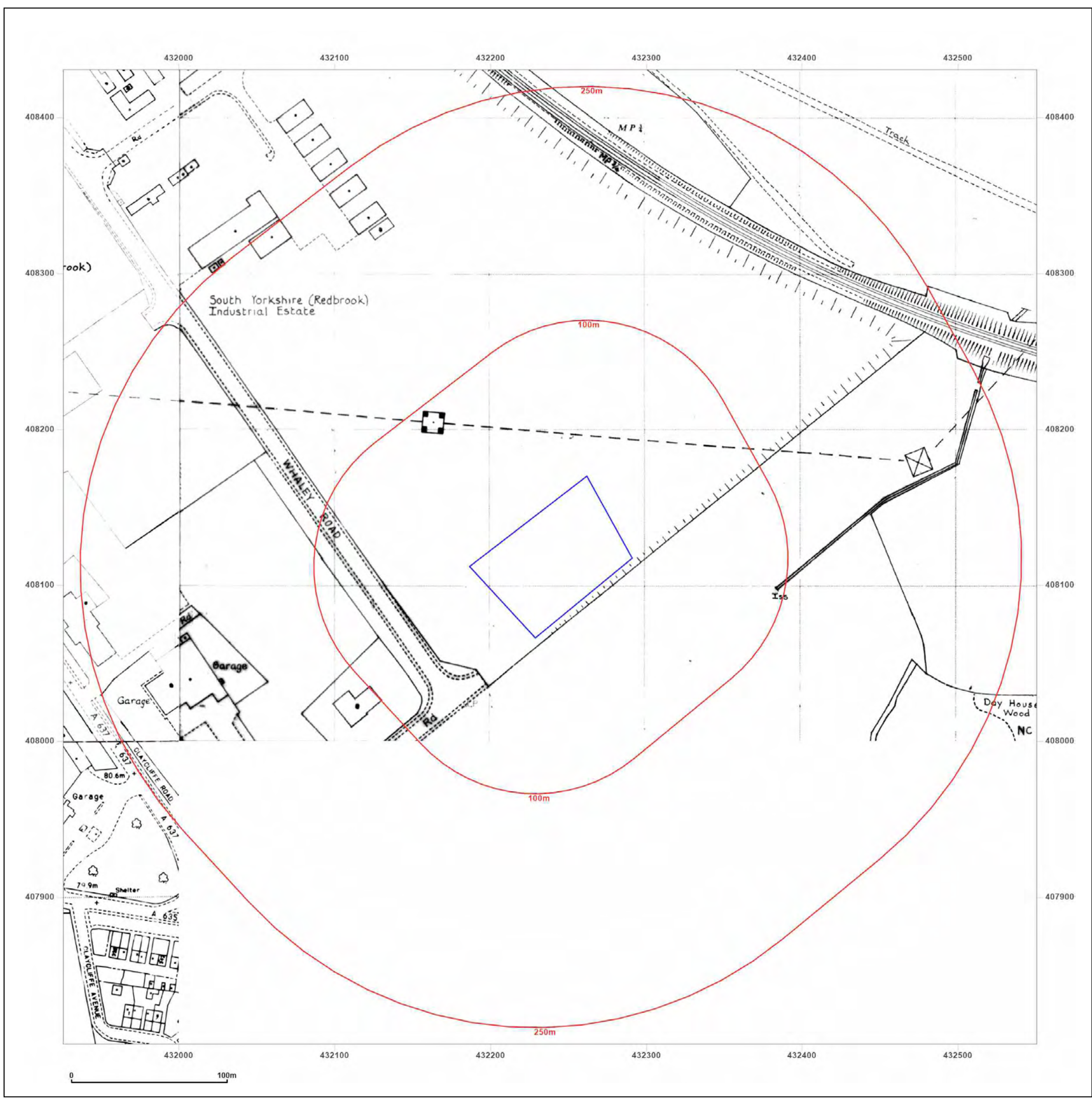


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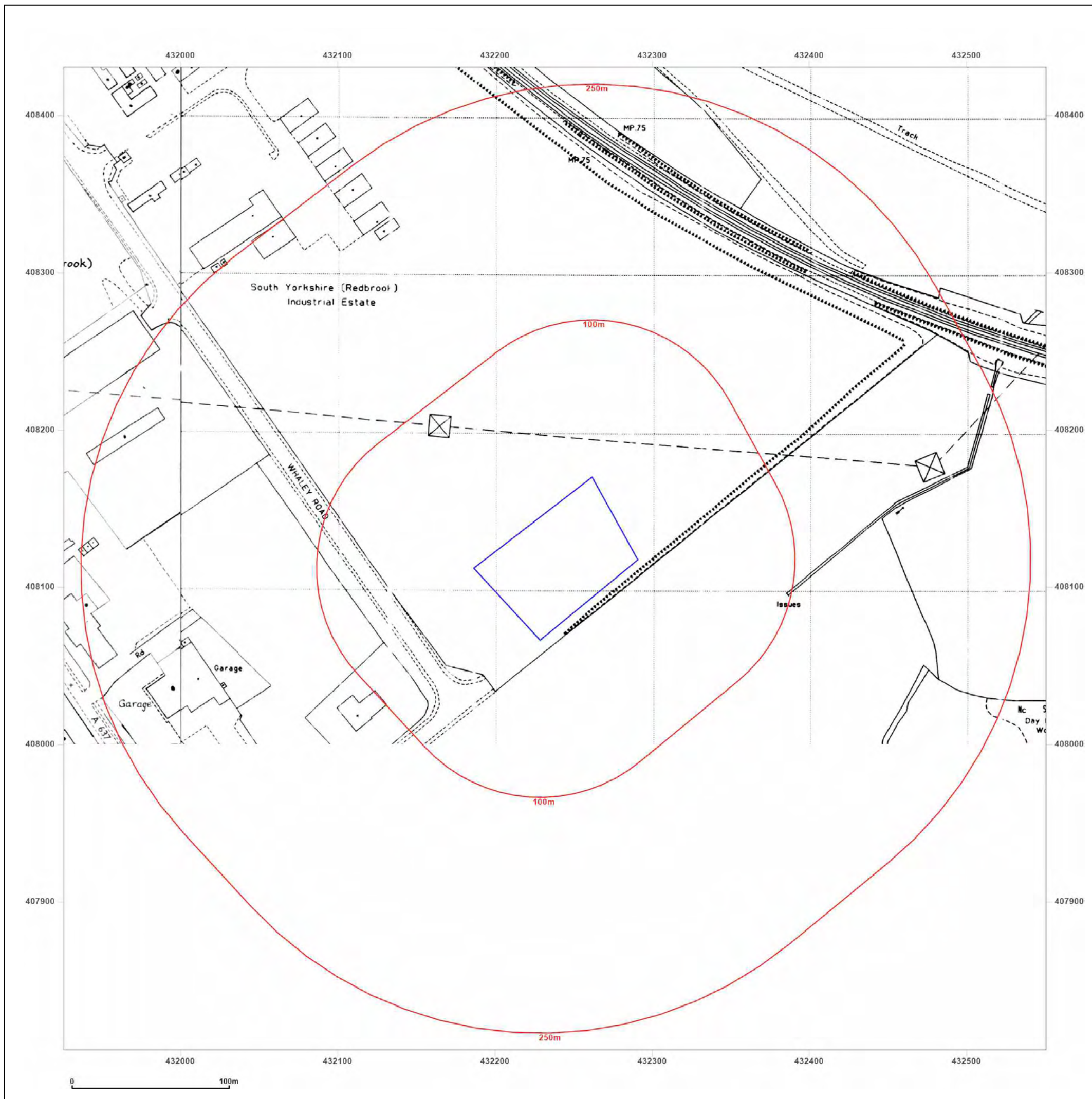
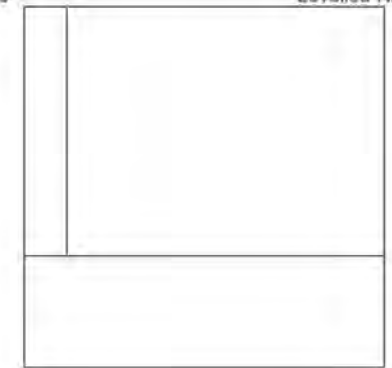
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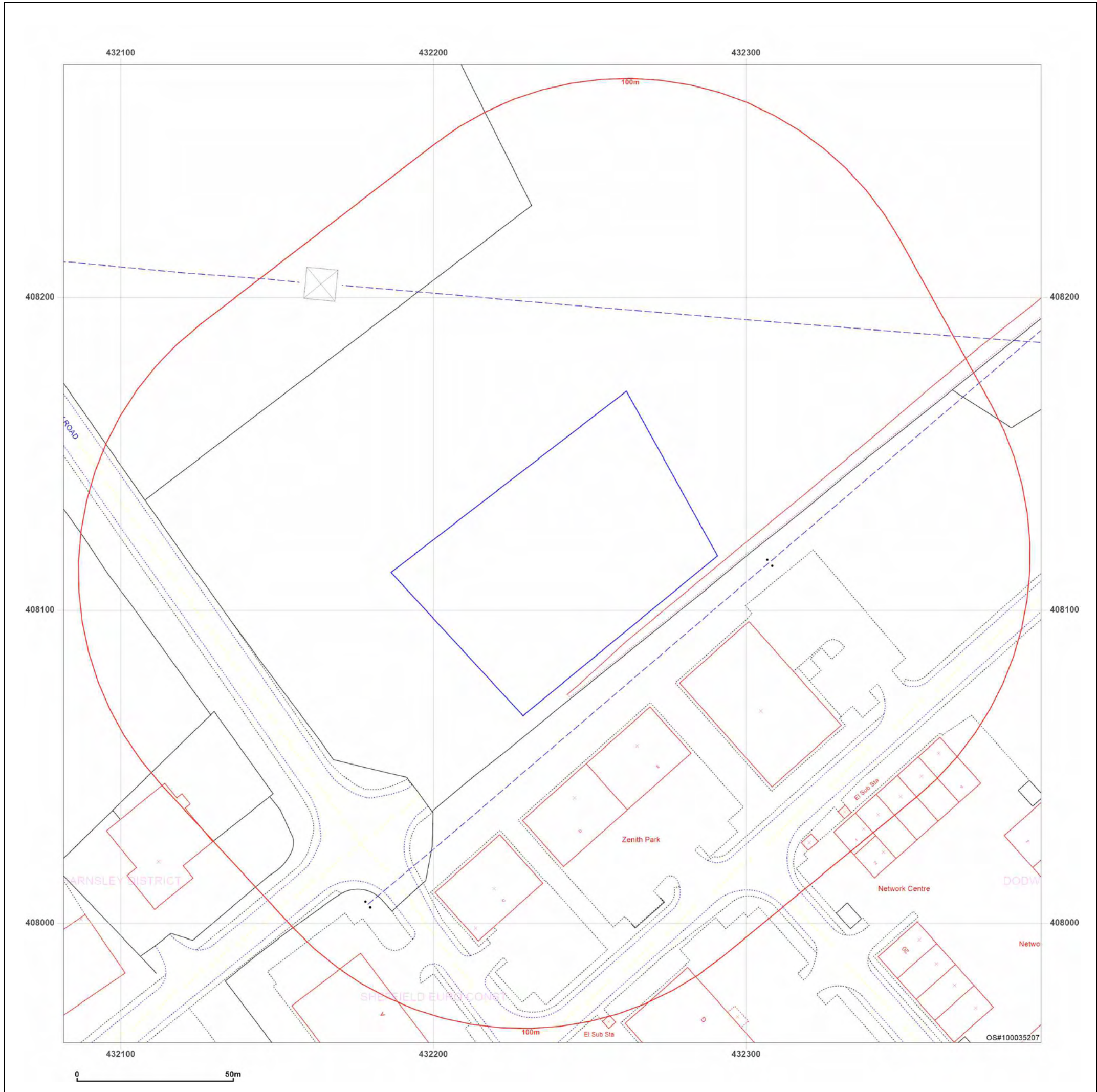
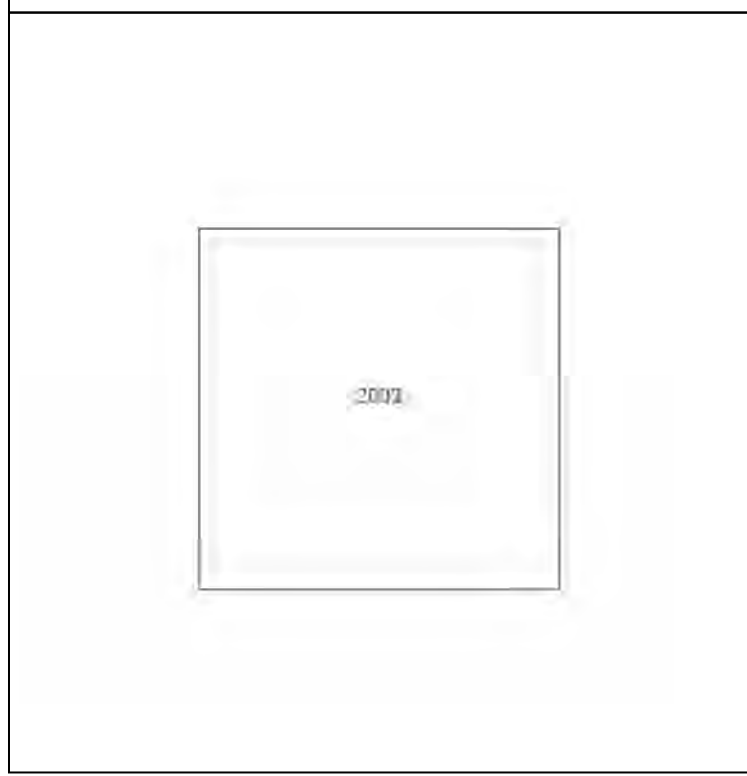
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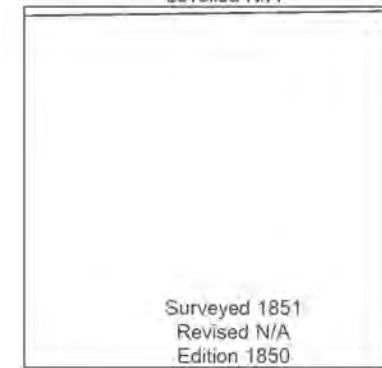
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 Edition 1854
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 Levelled N/A



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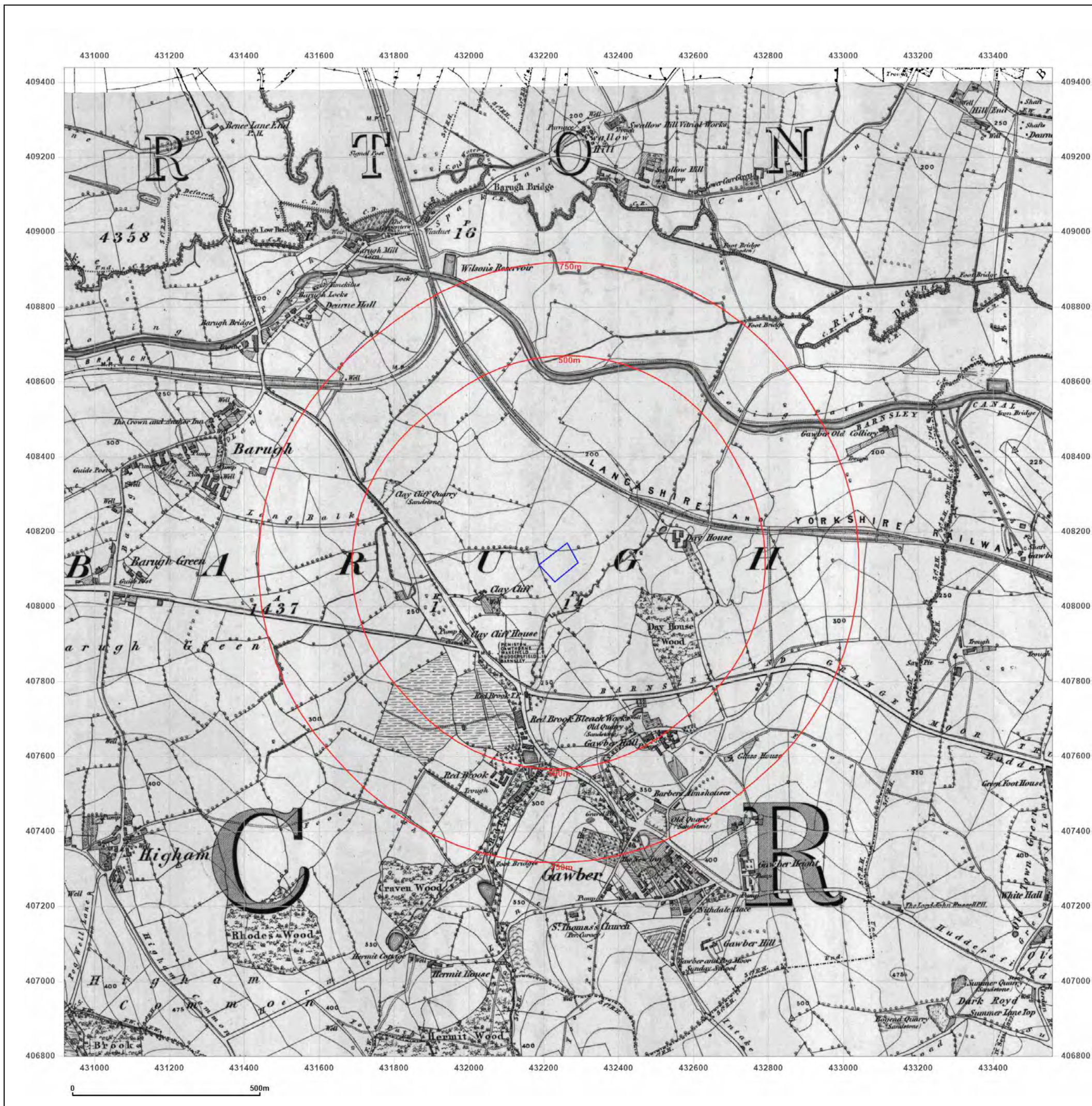


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Site Details:

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Report Ref: GS-AOT-XRD-DLY-LBG
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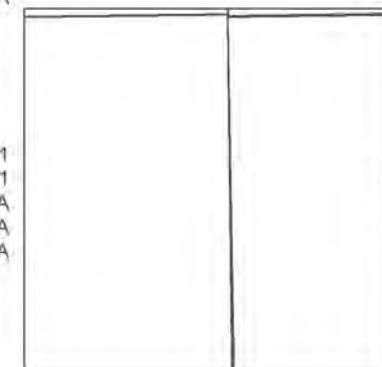


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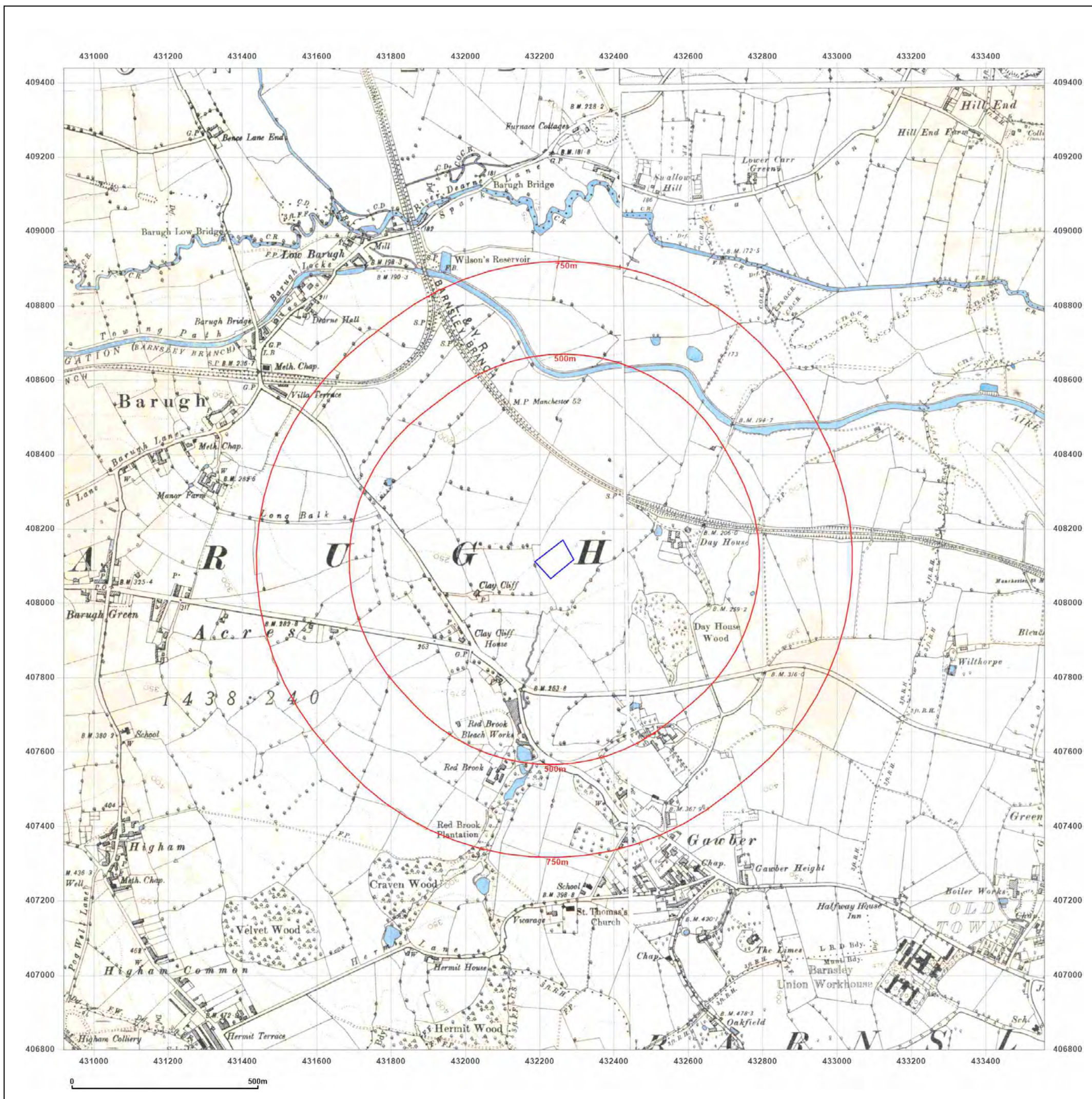


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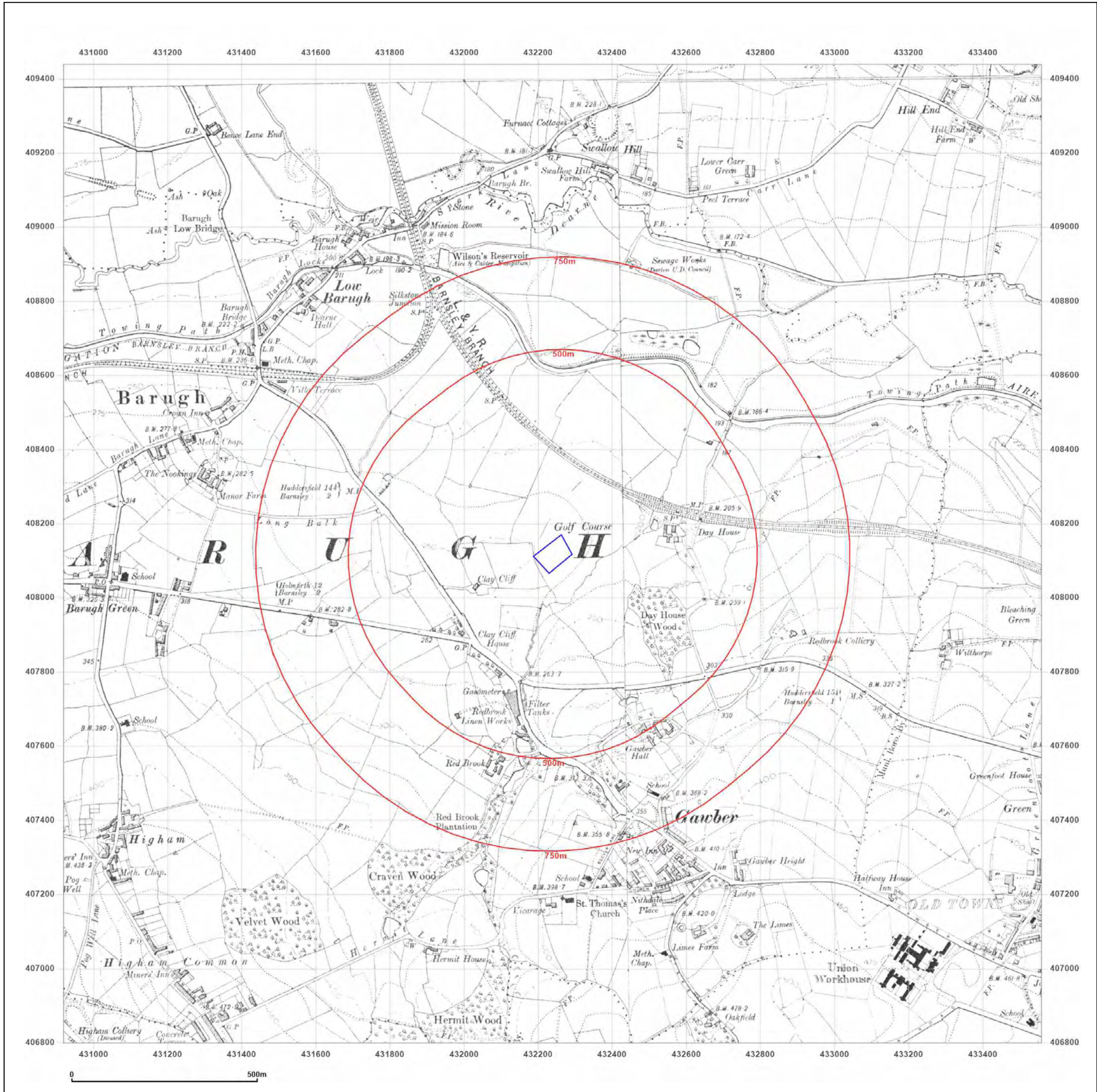


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Site Details:

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Map date: 1929-1930

Scale: 1:10,560

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 Revised 1930
 Edition 1930
 Copyright N/A
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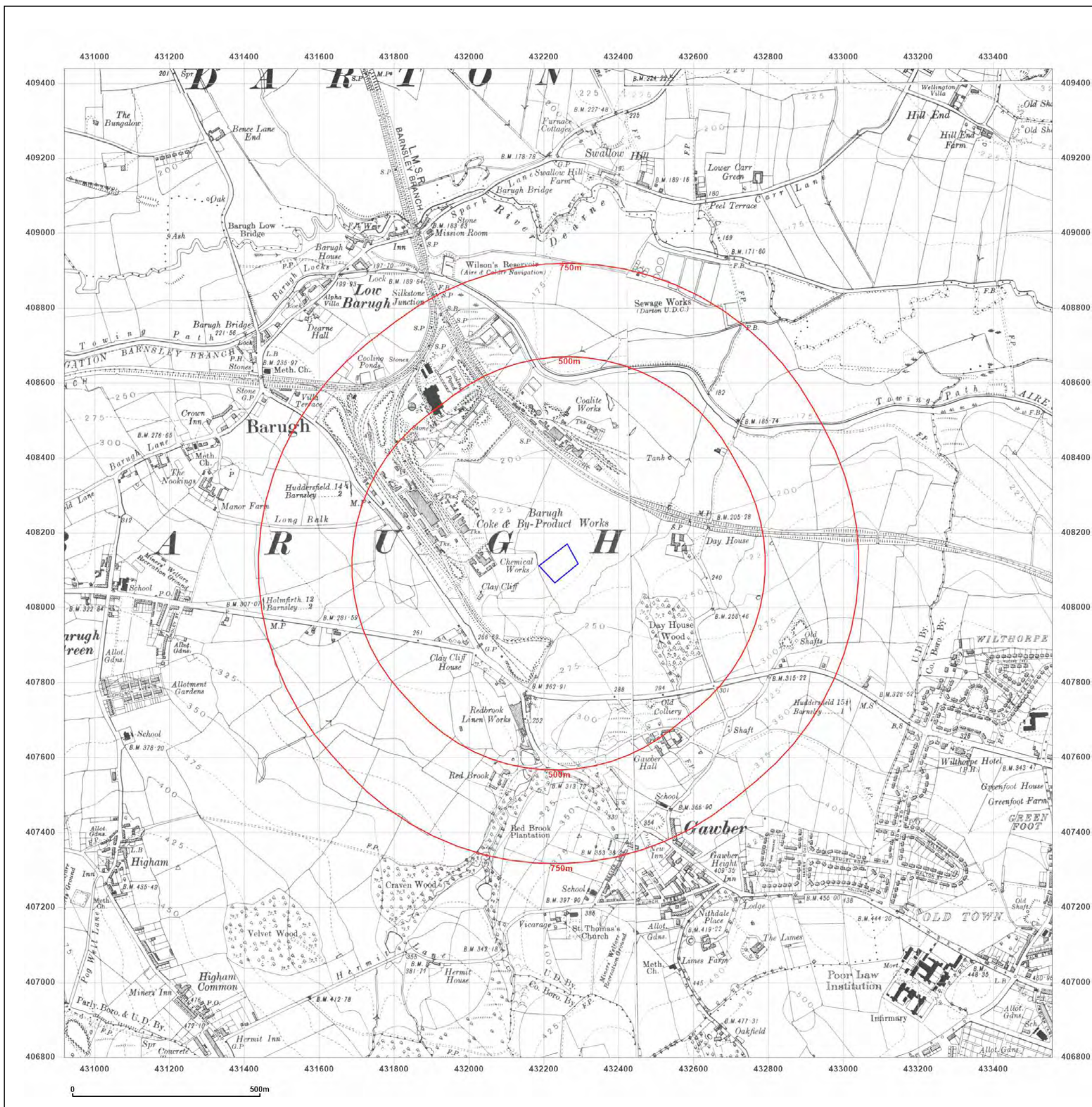


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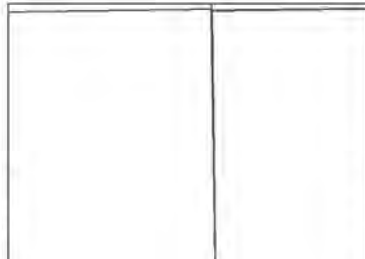
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 Edition N/A
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 Edition 1938
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 Levelled 1929

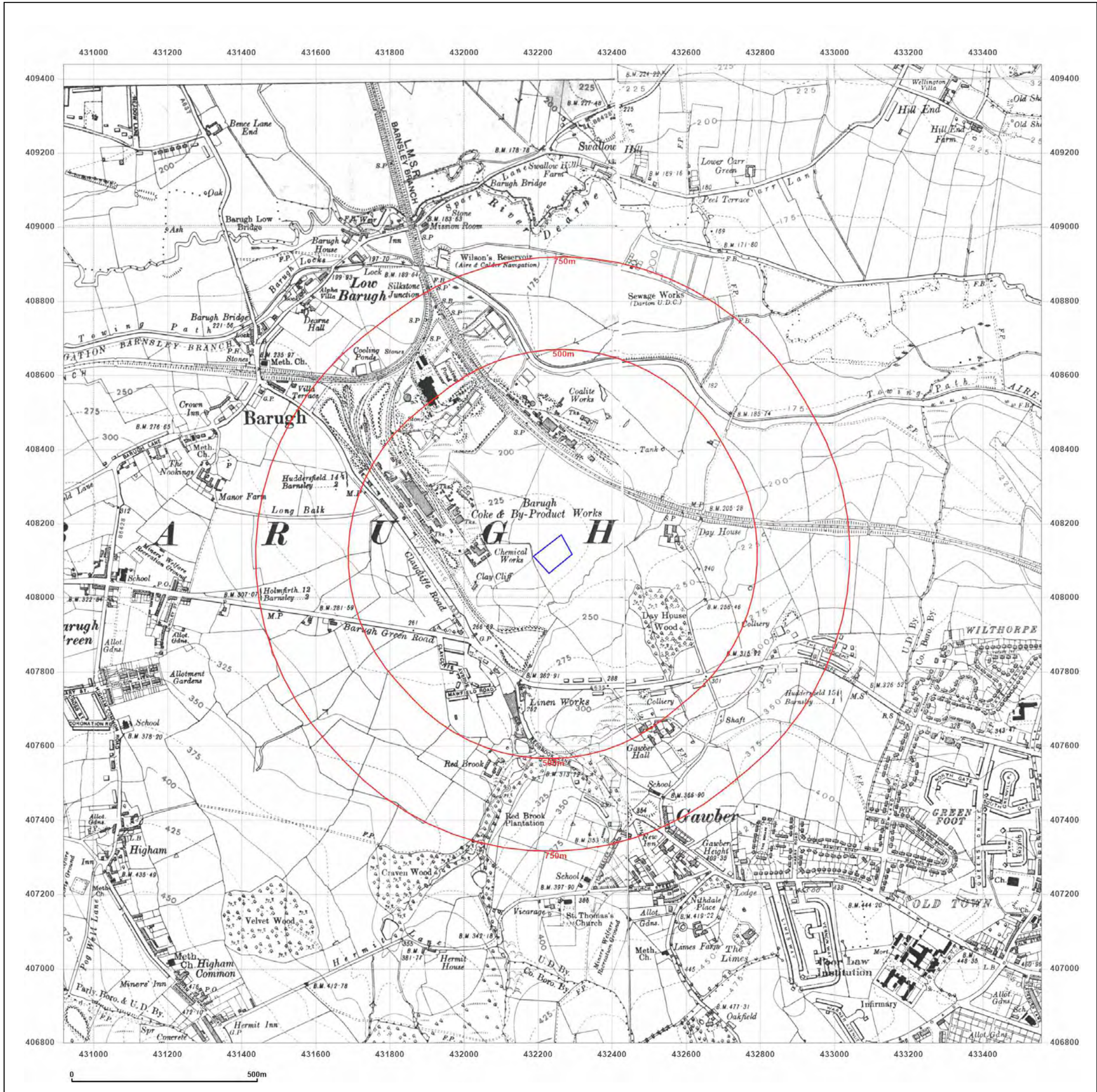


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Site Details:

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Report Ref: GS-AOT-XRD-DLY-LBG
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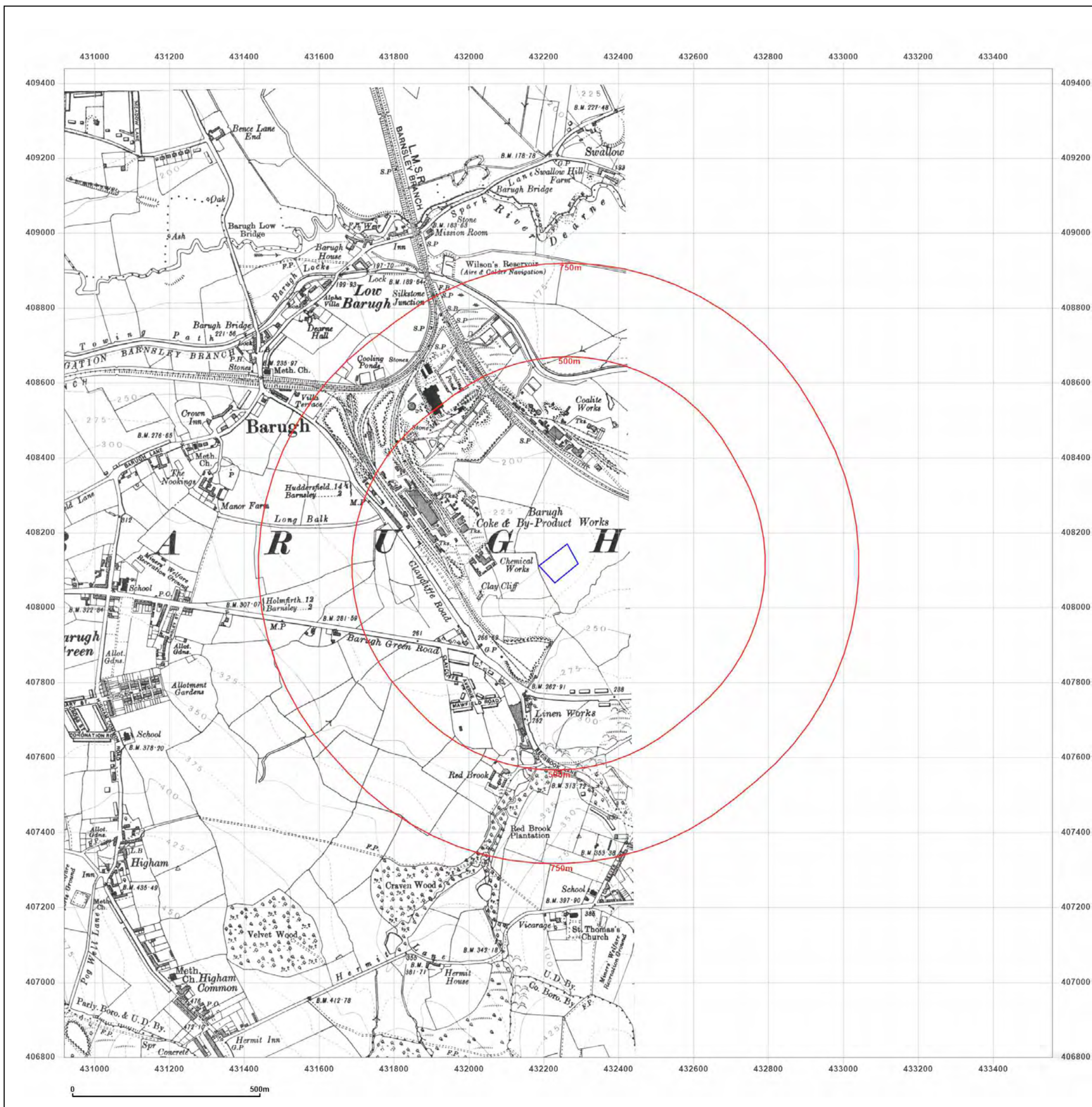


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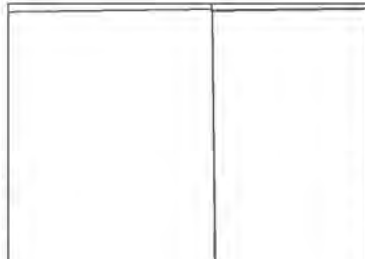
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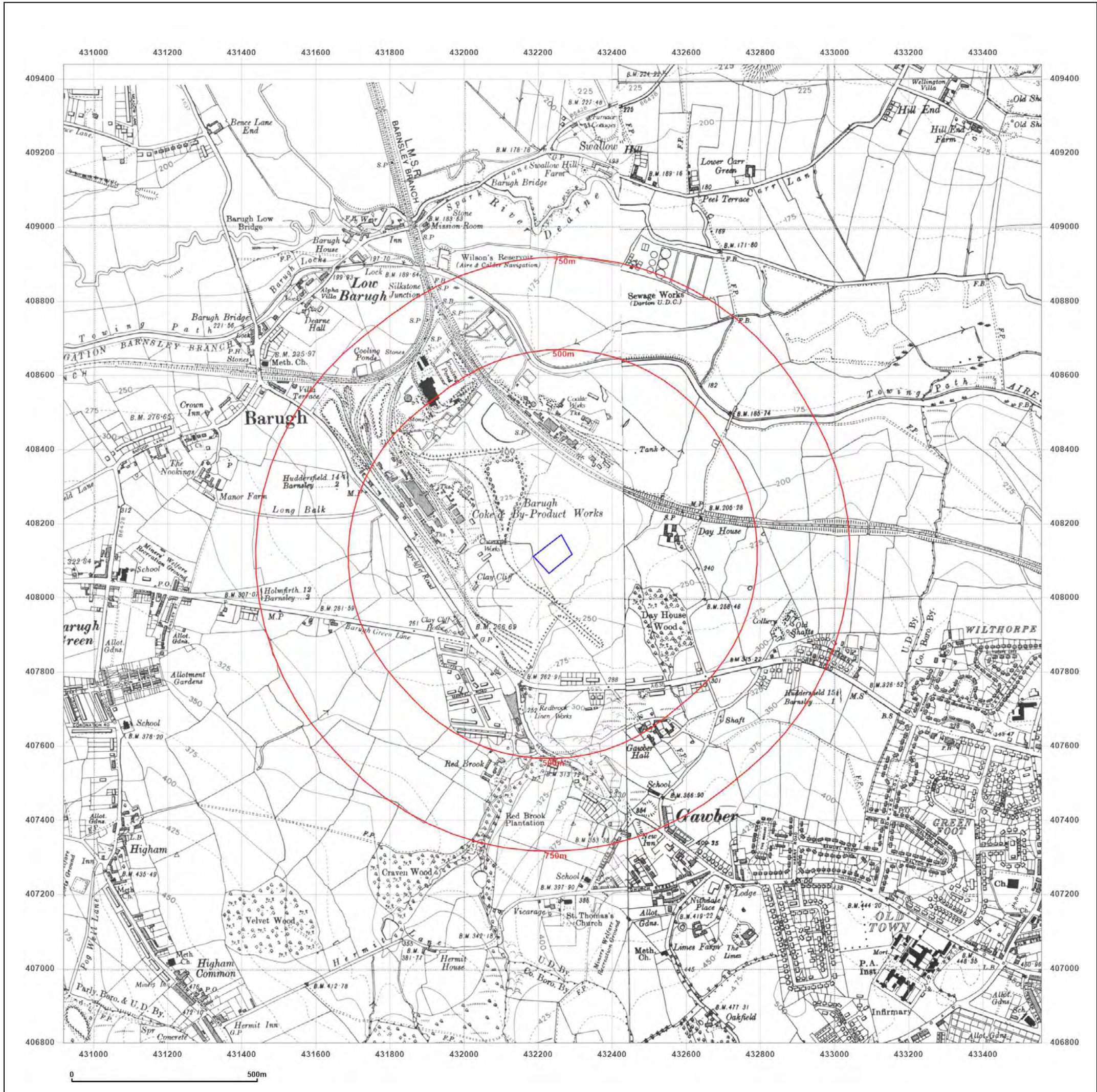


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 Levelled N/A

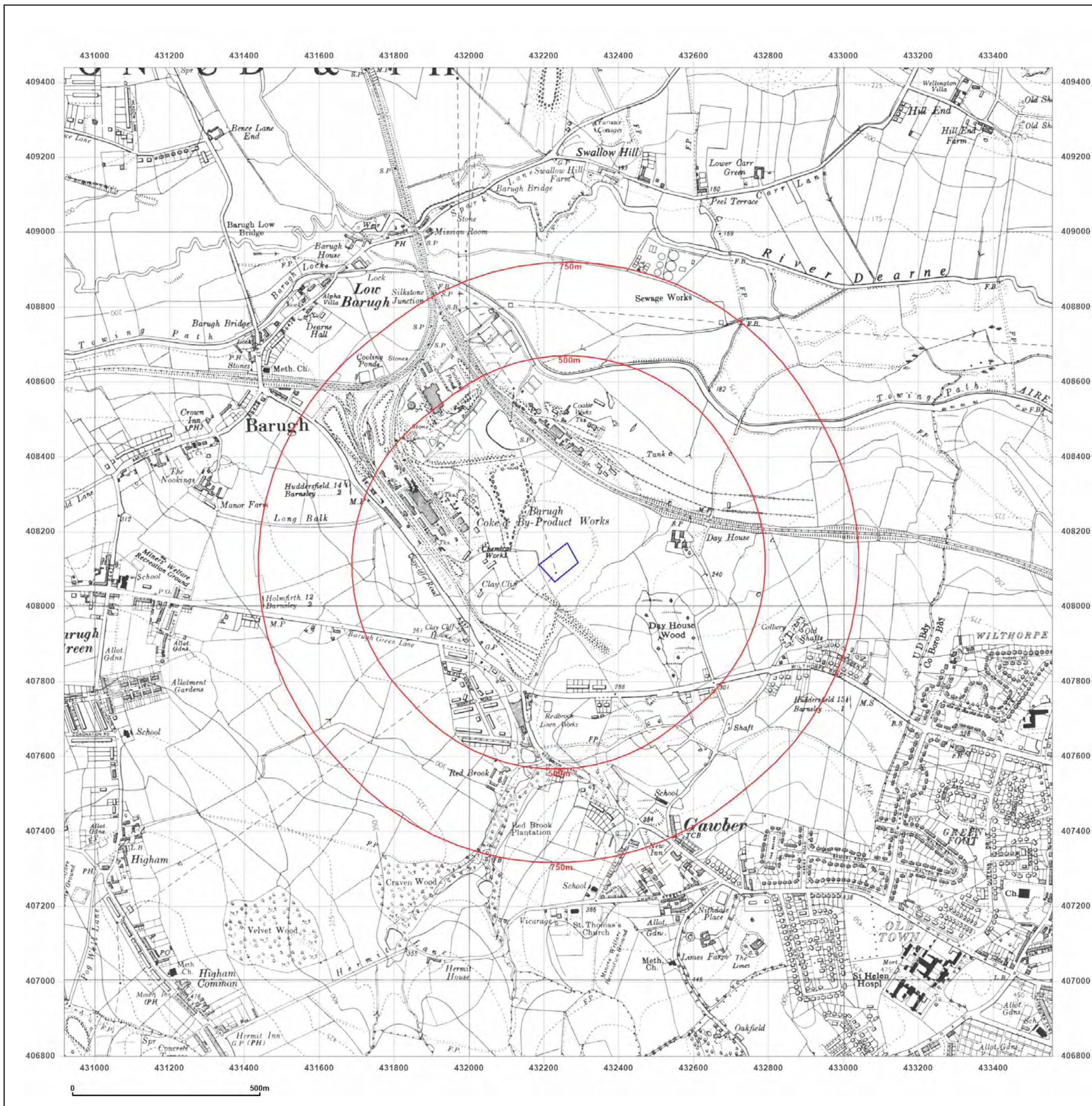


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Site Details:

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 Levelled N/A

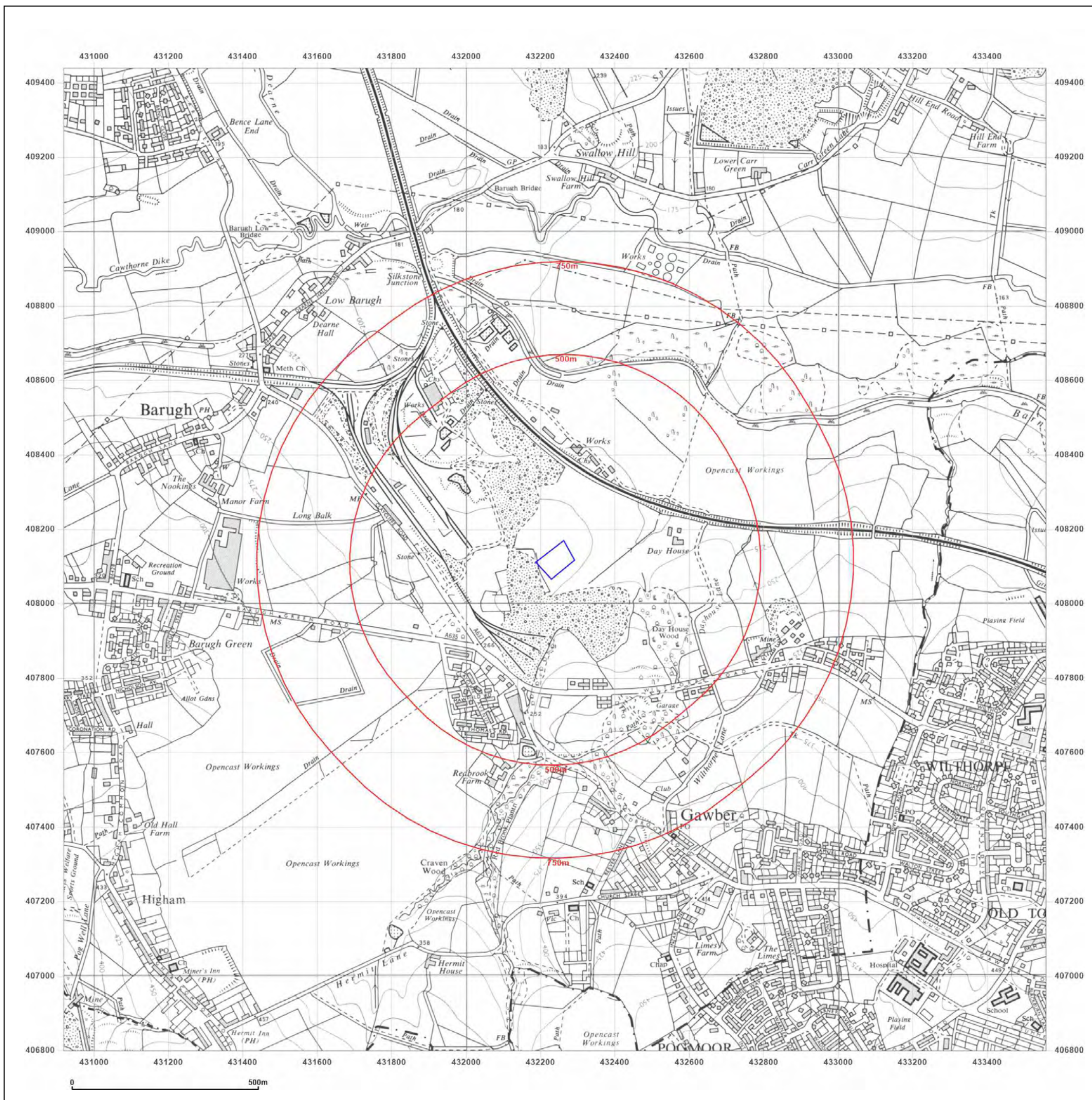


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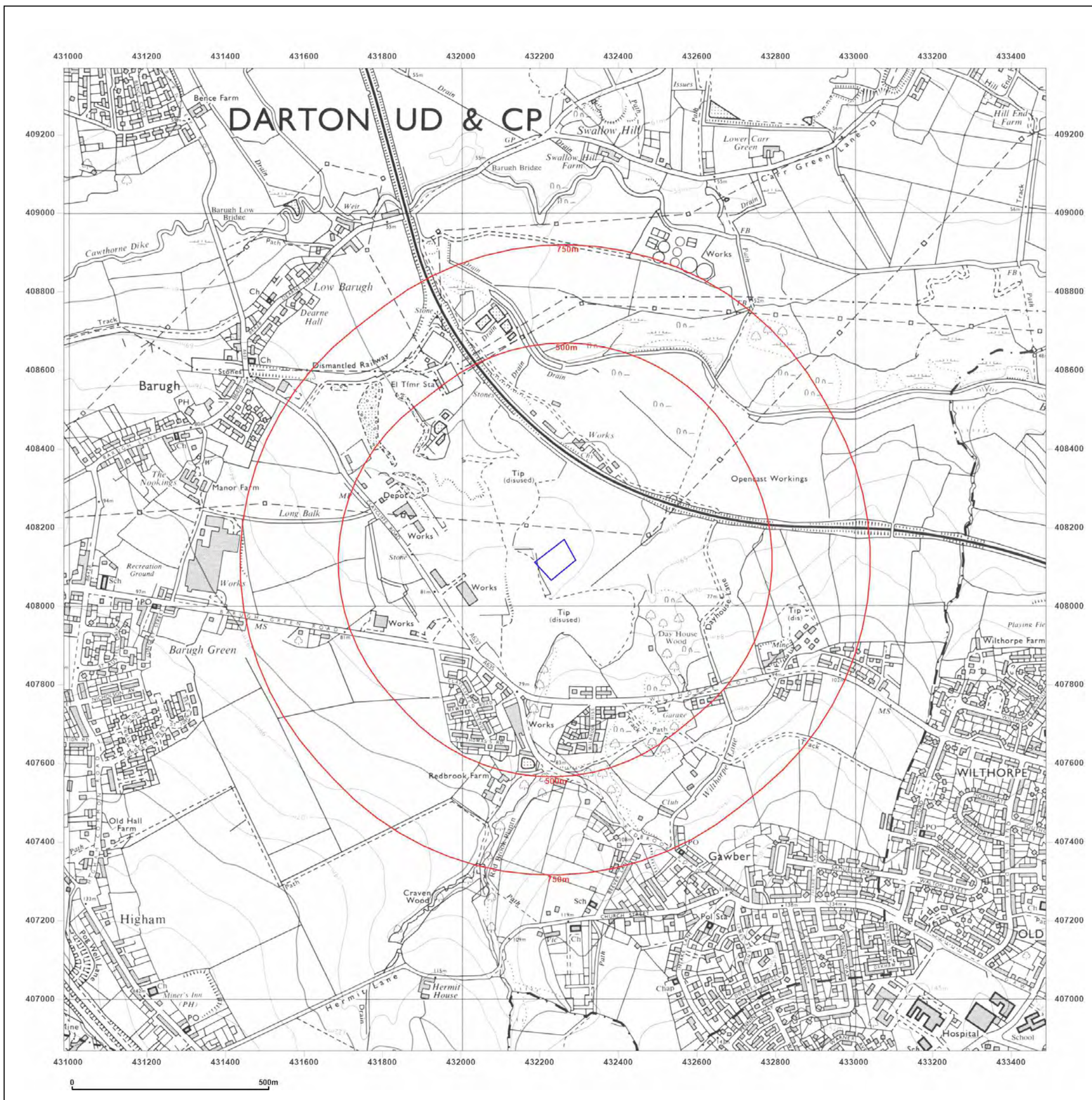


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Report Ref: GS-AOT-XRD-DLY-LBG
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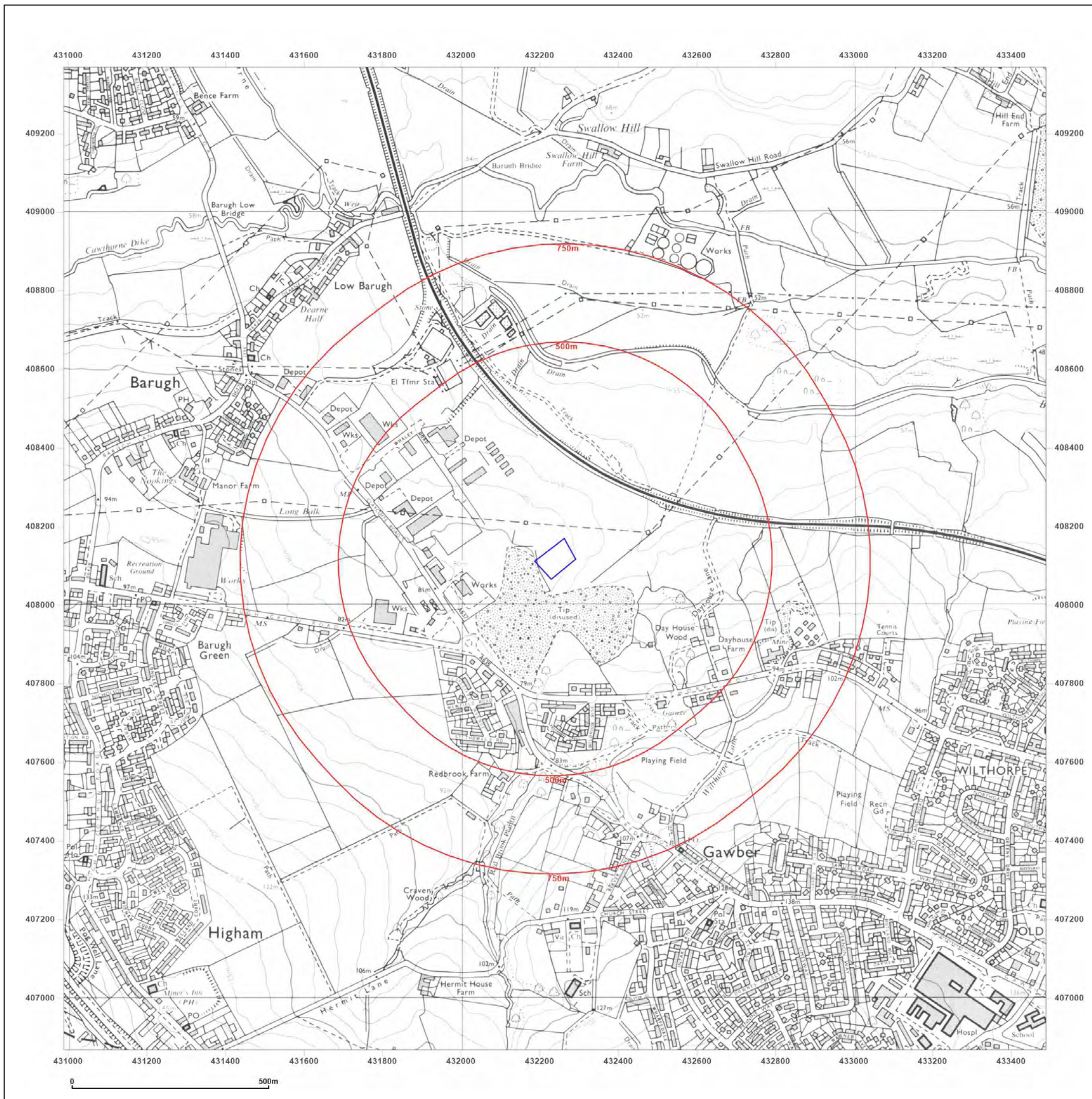


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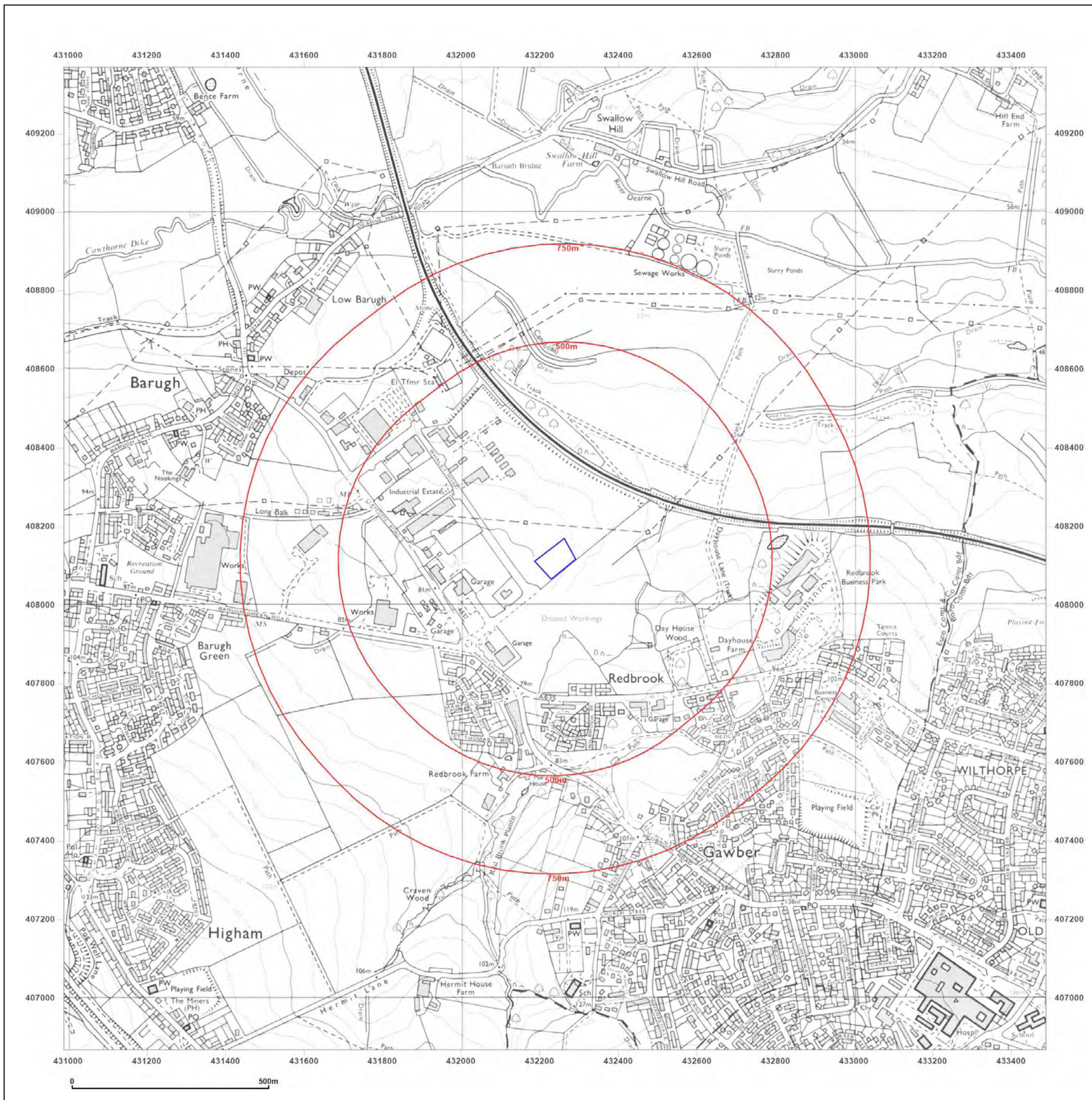


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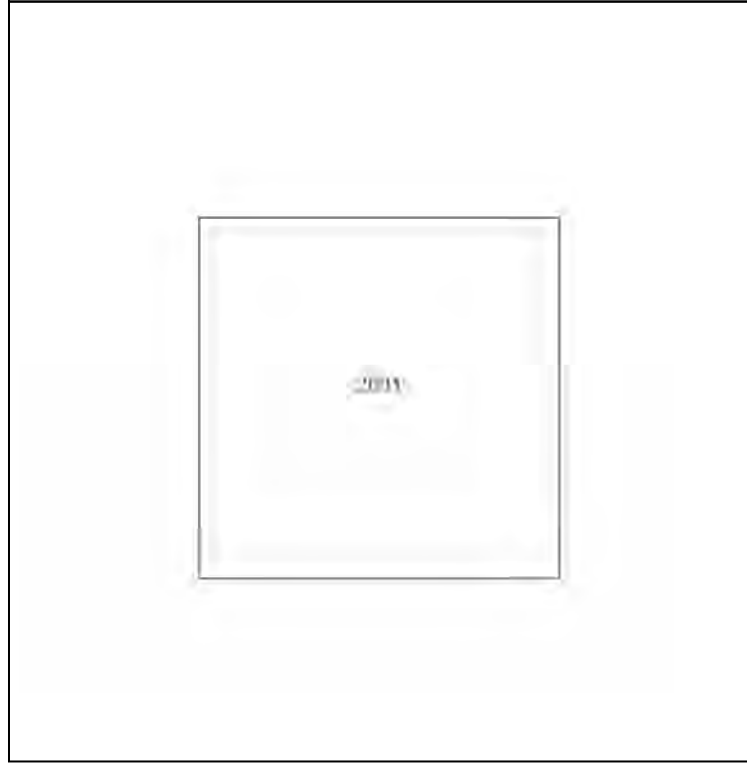
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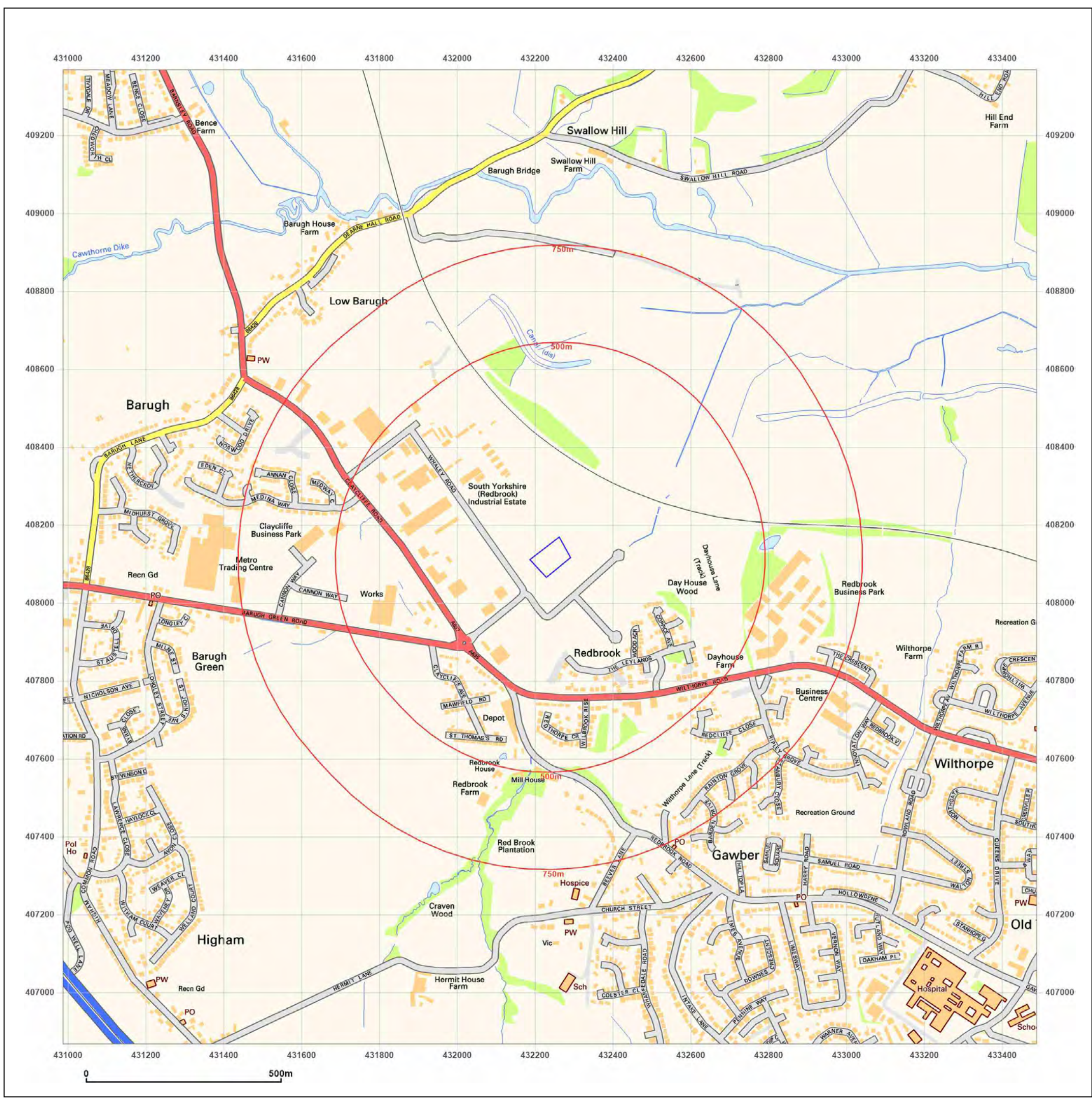


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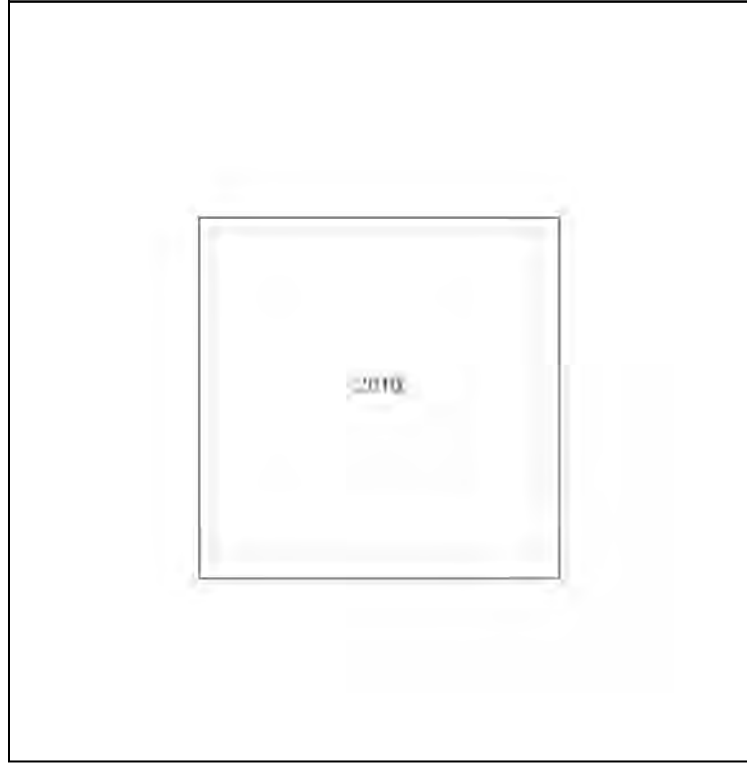
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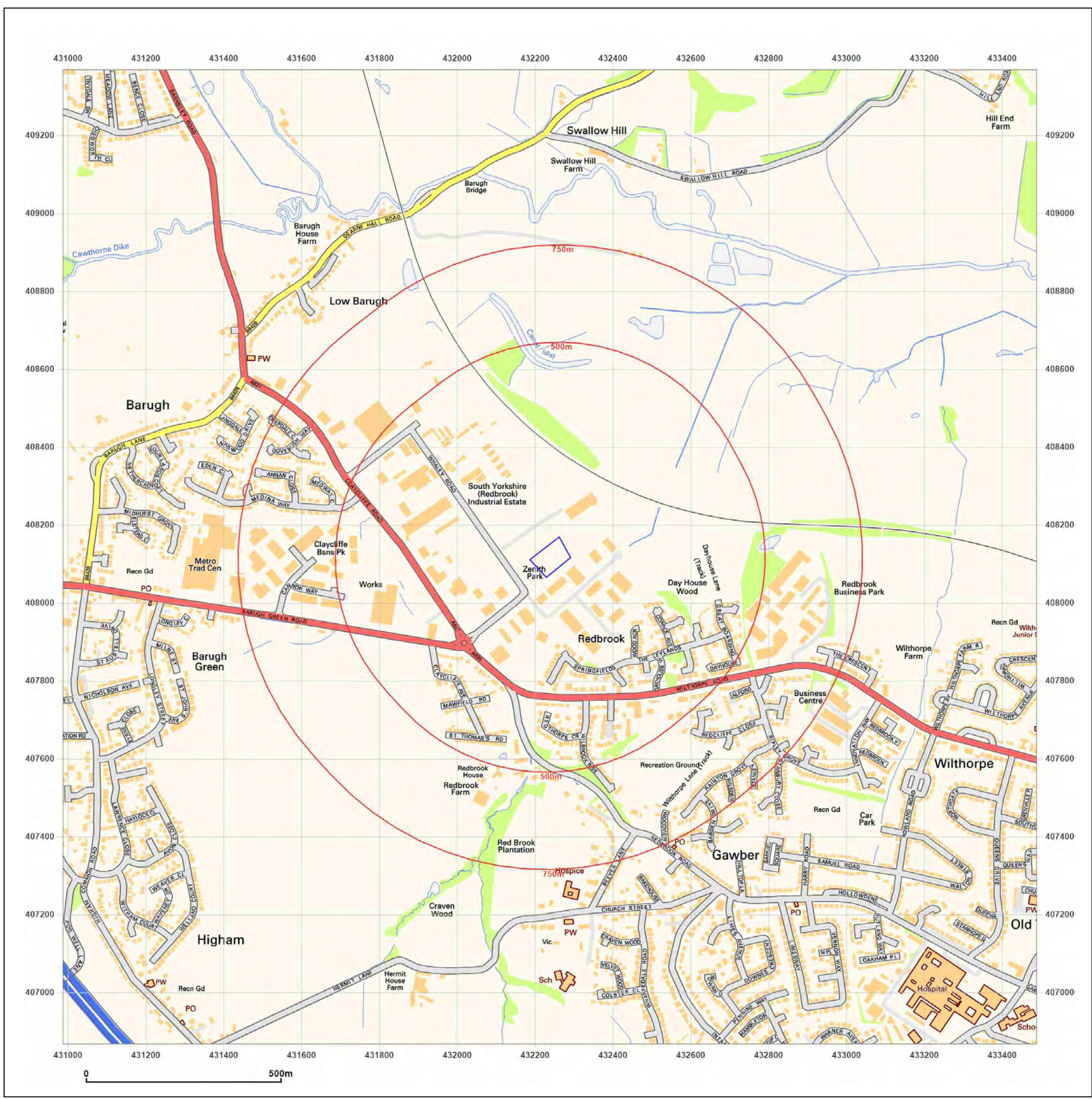


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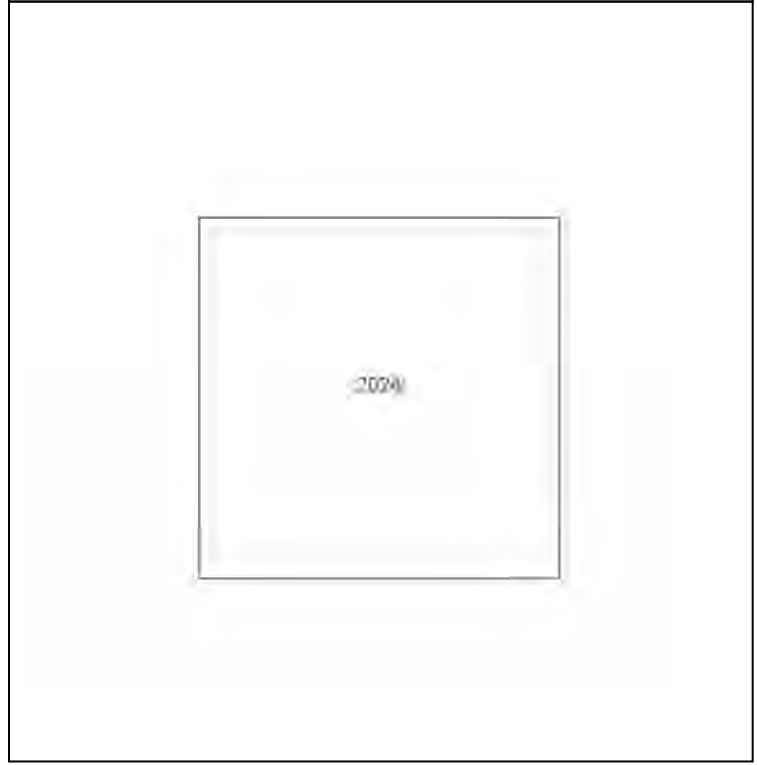
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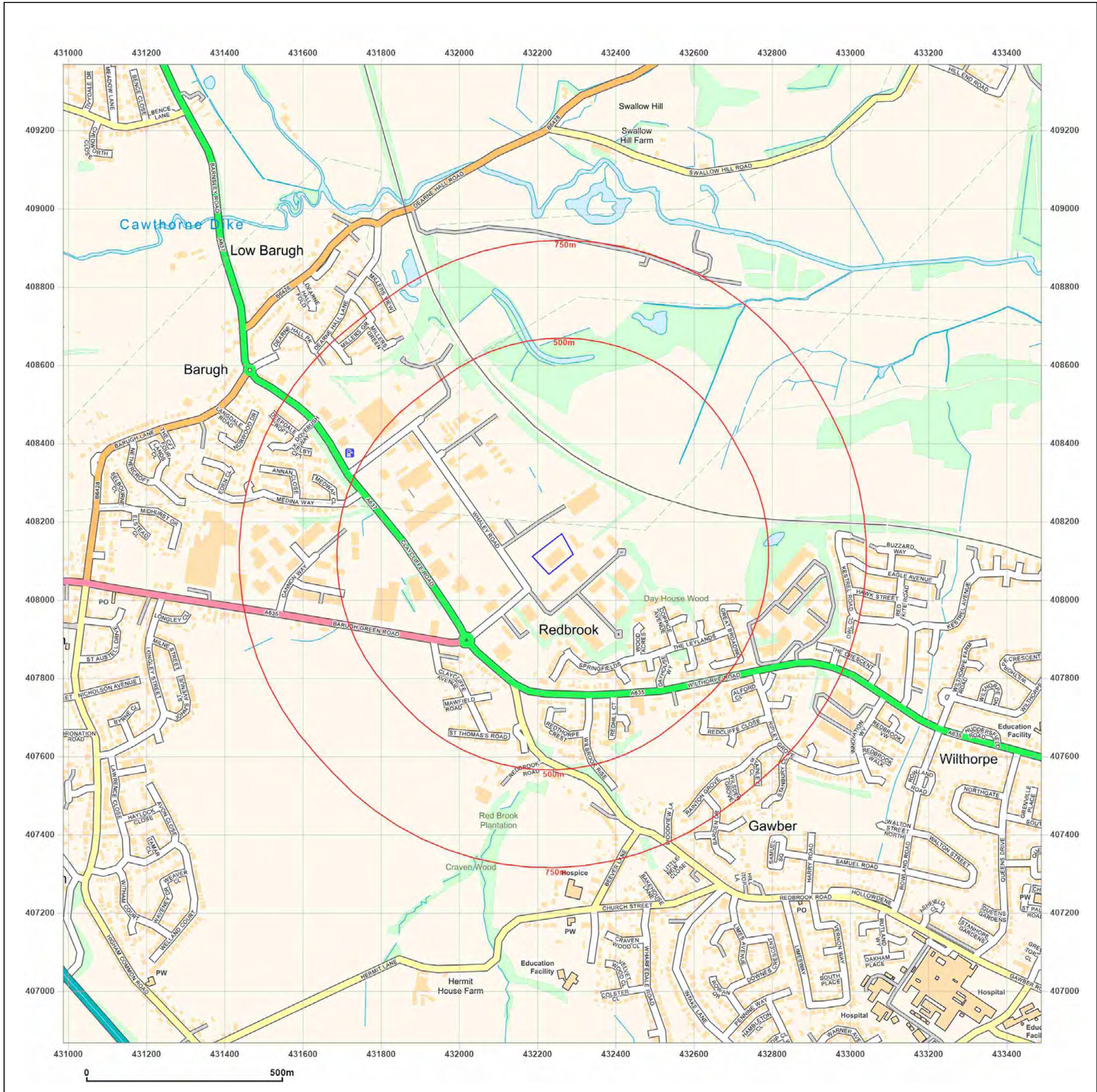


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APPENDIX 7

Coal Mining Risk Assessment

Coal Mining Risk Assessment

**NAYLOR CONCRETE PRODUCTS
WHALEY ROAD
BARUGH GREEN
BARNSELY**

for

Naylor Concrete Products

Report Number 4376

April 2024



Michael D Joyce Associates LLP
Geotechnical and Geoenvironmental Consultants

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T +44(0)1924 360458 **F** +44(0)1924 386535 **E** mdja@geoenvironmental.co.uk **W** www.geoenvironmental.co.uk

Coal Mining Risk Assessment

NAYLOR CONCRETE PRODUCTS WHALEY ROAD, BARUGH GREEN, BARNSELY

Contents

- 1.** Introduction
- 2.** The Site
- 3.** Geology and Mining
- 4.** Conclusions and Recommendations

Figures

- Figure 1 Site Location and Proposed Development

Appendices

- Appendix 1 Coal Authority Consultant's Mining Report
Standard Appendix A

1 INTRODUCTION

1.1 At the request of Naylor Concrete Products, a Coal Mining Risk Assessment has been carried out at its premises off Whaley Road in Barnsley. It is understood that the current buildings are to be demolished and replaced by new buildings, to be used as part of its batching process.

1.2 The assessment has not included other desk study research and no structural or asbestos surveys have been carried out.

2 THE SITE

2.1 The site of the proposed batching plant lies to the east of Whaley Road, approximately 2km northwest of the centre of Barnsley. Figure 1 shows the area of the proposed batching plant. The Ordnance Survey Grid Reference is E432240, N408110. The site is flat-lying at around 72 mAOD.

3 GEOLOGY AND MINING

3.1 Geology

3.1.1 Maps of the British Geological Survey (BGS), show the site to be underlain by Undifferentiated mudstones, siltstones and sandstones of the Carboniferous Middle Coal Measures. An unnamed sandstone may underlie the northeasternmost part of the site. The dip of the strata in the area is generally to the east.

3.1.2 There are no drift deposits shown on the geological maps, which also show the site to be free of faulting.

3.2 Mining

Coal Seams

3.2.1 The geological maps record the Dunsil (also known as the Harley) Coal seam outcropping approximately 150m to the west of the site, and to dip below it.

3.2.2 According to the geological memoir "Geology of the Country around Barnsley", published in 1947, the Dunsil Coal was recorded as being 1.67m thick at the nearby former Wharnccliffe Woodmoor Colliery. The seam comprises interbedded coal and dirt. The memoir also states that the Dunsil Coal was a house coal, "*though little worked in this area*" in reference to the Barnsley area.

3.2.3 Below the Dunsil, the next seams of economic value were the Upper and Low Haigh Moor Coal seams. However, the shallower Upper Haigh Moor Coal lies

approximately 52m below the Dunsil at the former Wharnccliffe Woodmoor Colliery (No. 4 and 5). As such, it is too deep to affect surface stability, even if it has been worked.

3.2.4 The Barnsley Coal seam lies above the Dunsil. However, this outcrops to the east of the site, such that it does not underlie the property.

3.2.5 A Coal Authority Consultant's Mining Report has been obtained, and is reproduced in Appendix 1. It confirms that there are no probable unrecorded shallow workings, or spine roadway at shallow depth.

3.2.6 Deeper recorded mining has taken place in the Flockton Thin at 148m depth, the Top Fenton at 184m depth, the Silkstone at 284m depth, and the Whinmoor at between 335m and 339m depth. The last date of mining was in 1985, and as such subsidence should have already taken place by now under normal circumstances.

Mine Entries

3.2.7 According to the report, there are no recorded mine entries on, or within 100m of the site. It should be noted that the presence of unrecorded mine entries cannot be entirely precluded, but are considered unlikely.

Opencast Mines

3.2.8 The Coal Authority report records an opencast mine immediately to the southeast of the site. The southeastern boundary of the site more or less coincides with the northwestern boundary of the opencast. It should be noted that the boundary of

the opencast is usually the top of the former high wall, but may be in approximation depending upon how well it was surveyed at the time. The Zenith Park development has subsequently been built over the opencast.

3.2.9 It is due to the opencast that this area lies within a "Development High Risk Area" (DHRA). However, most, if not all of the study site lies outside a DHRA.

Others

3.2.10 According to the Coal Authority report, none of the following which may affect the site are recorded;

- Outcrops
- Geological faults, fissures and breaklines
- Coal Authority managed tips
- Site Investigations
- Remediated Sites
- Coal mining subsidence
- Mine Gas
- Mine Water Treatment Schemes
- Future underground mining
- Coal mining licensing
- Court Orders
- Section 46 notices
- Withdrawal of support notices
- Payment to owners of former copyhold land

4 CONCLUSIONS AND RECOMMENDATIONS

- 4.1 The Coal Authority has stated that the probability of unrecorded shallow mineworkings is none, and that virtually all (if not all) of the site lies outside a Development High Risk Area.
- 4.2 By “shallow”, the Coal Authority refers to any seams within 30m of the surface and taking into account the previous economic value of any such seams.
- 4.3 The depth to the shallowest seam (the Dunsil Coal) is unknown. However, research indicates that it was little worked in the Barnsley Area. As such, the Dunsil is either too deep to be of concern, and/or considered not to be of economic value. This has been confirmed by the Coal Authority.
- 4.4 Under normal circumstances, any subsidence from deeper workings will have ceased by now.
- 4.5 In conclusion, the Coal Mining Risk Assessment concludes that the site is not at risk from former underground mining.
- 4.6 The proposed building is close to the high wall of a former open cast mine. Should the proposed building be partly over the opencast, this would potentially lead to significant differential settlement.
- 4.7 It is therefore recommended that trial pitting is carried out to confirm that the proposed building foundations are not located over the former opencast or within

influencing distance. Should this be the case, the most practical and economic solution would be to move the footprint of the building away from the opencast.

- 4.8 The backfill to the former opencast is unknown. Typically, it would comprise former overburden material. However, should it have been in part infilled with biodegradable material, there is the potential for landfill ground gases to be generated. The presence of the Zenith development suggests this should not be problematic. Nevertheless, it is recommended that gas monitoring is also carried out as part of the abovementioned investigation.

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April 2024

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Procedure Notes

The desk study and/or ground investigation have been carried out using reasonable skill and care in accordance with the principles of Ground Investigation and Testing", BS5930: 2013 and BS10175:2011+A1:2013, and the terms of the client's brief. The report has been prepared for the specific purposes notified at the time of the initial enquiry.

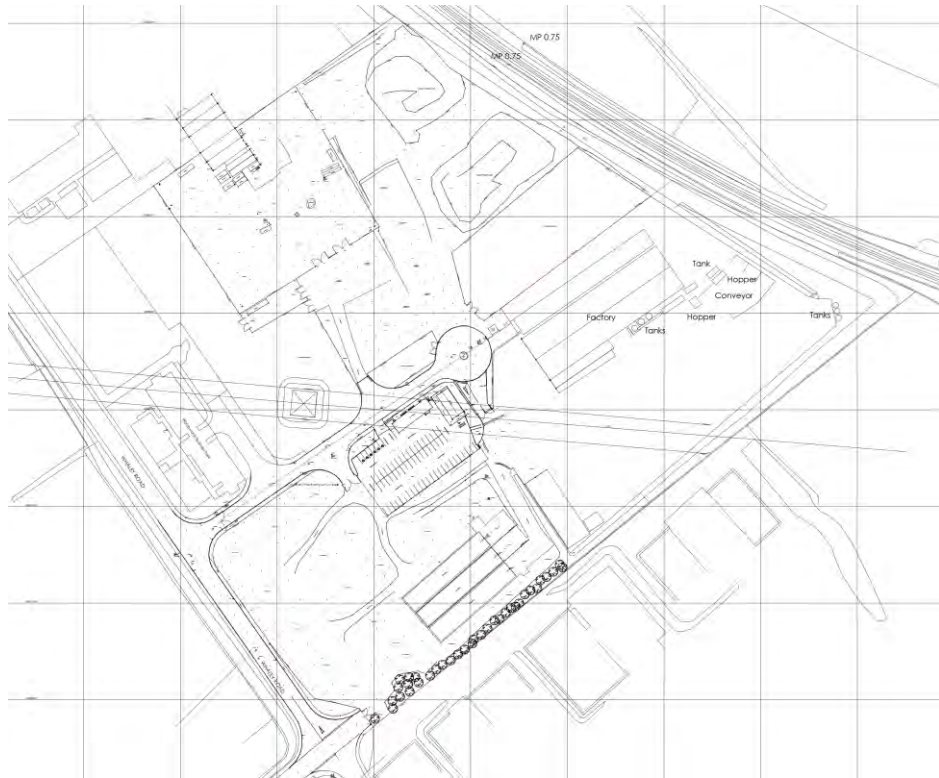
By its very nature any ground investigation only encounters and samples a small percentage of the ground. Consequently changes in ground conditions and soil properties can occur between any two exploratory points, for example local features such as soft ground, pockets of contamination and faults. This is also true of the exploration of mineworkings and such features can extend beneath parts of the site not investigated. Unrecorded bell pits and shafts can also exist between exploratory points. The ground investigation is designed to minimize such risks. Conclusions and recommendations are based on the information presented in this report, but unforeseen features may exist. No liability can be accepted for conditions not revealed by the exploratory holes. Therefore, actual ground conditions should be noted during construction and further advice sought if they differ from those predicted. Michael D. Joyce LLP reserves the right to amend the conclusions and recommendations in the light of further information. Actual methods of construction or alternative designs should be notified to Michael D. Joyce Associates LLP, such that the recommendations made can be reconsidered in the light of any changes.

Further investigation can be carried out to further reduce uncertainty and risk but ultimately these risks cannot be eliminated. Similarly a desk study normally only considers readily available information and further information could be held by other sources. In commissioning further research or investigation the cost/benefit of doing so must be considered.

It is assumed that groundlevels will not change significantly from those at present. The groundwater conditions are based on observations made at the time of the investigation, unless stated otherwise. It should be noted that the observations are subject to the method of the boring or excavation and that groundwater levels will vary due to seasonal or other effects.

Where buildings are present on a site, structural and asbestos surveys have not been carried out, unless specifically stated. An Unexploded Ordnance Survey has not been carried out unless specifically stated. In relevant situations it would be prudent to commission such surveys.

Where information has been obtained from Third Parties, no liability can be accepted for the accuracy or completeness of this information. Where anecdotal evidence or speculations are presented, they must be treated as such and cannot be relied upon.



Whaley Road, Barugh Green, Barnsley
 Site Location and Development Proposals

Michael D Joyce Associates LLP
 Geotechnical and Geoenvironmental Consultants

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Scale: NTS

Figure: 1



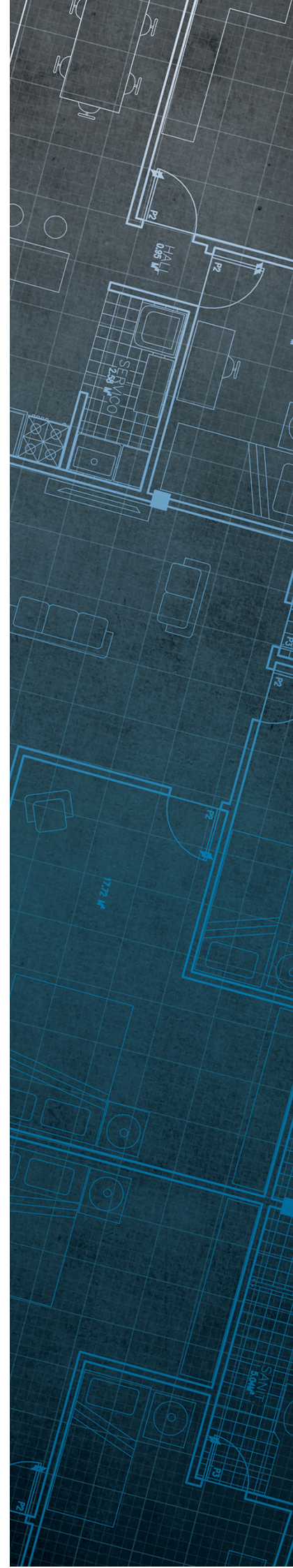
The Coal
Authority

Consultants Coal Mining Report

Whaley Road, Barugh Green,
Barnsley
South Yorkshire

Date of enquiry: 24 April 2024
Date enquiry received: 24 April 2024
Issue date: 24 April 2024

Our reference: 51003420042001
Your reference: GS-8E6-2QL-5R5-SLL



Consultants Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

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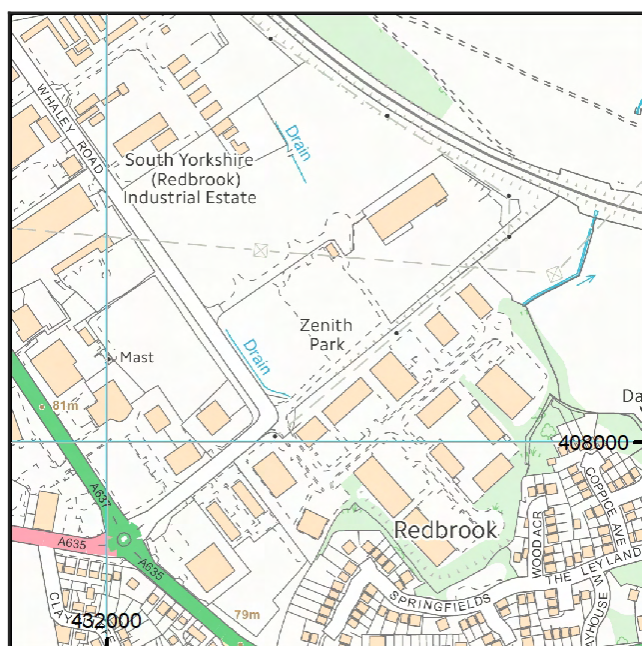
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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
DODWORTH	FLOCKTON THICK	Coal	6Z6U	144	South	4.1	North-East	76	1949
DODWORTH	FLOCKTON THICK	Coal	6YND	148	Beneath Property	5.2	North-East	76	1951
DODWORTH	TOP FENTON	Coal	6Z6S	179	South	4.7	North-East	81	1935
DODWORTH	TOP FENTON	Coal	6YN8	184	Beneath Property	5.3	North-East	81	1936
DODWORTH	SILKSTONE	Coal	6NDW	279	West	3.0	North-East	100	1978
DODWORTH	SILKSTONE	Coal	6Z70	281	South	4.3	North-East	105	1976
DODWORTH	SILKSTONE	Coal	6YNG	284	Beneath Property	3.9	North-East	90	1978
DODWORTH	SILKSTONE	Coal	X58	289	North-West	3.4	North-East	100	1981
WOOLLEY	WHINMOOR	Coal	6NFV	321	South-West	4.4	North-East	115	1979
WOOLLEY	WHINMOOR	Coal	Z89	322	South-West	5.2	North-East	107	1980
WOOLLEY/REDBROOK	WHINMOOR	Coal	6Z74	332	South	4.7	North-East	117	1979
WOOLLEY/REDBROOK	WHINMOOR	Coal	6YNH	335	Beneath Property	4.4	East	109	1979
WOOLLEY/REDBROOK	WHINMOOR	Coal	Z90	339	Beneath Property	4.0	East	115	1985

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

NE763	NE498	NE919
NE584	7322	NE1034
NE762		

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

Please refer to the "Summary of findings" map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is in an area where a notice to withdraw support was given in 1982.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.