

Phase 1 Desk Study and
Preliminary Geoenvironmental Assessment

For a site at

The Stand Golf Club, Bury

Undertaken for

Westshield Ltd

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1.0 INTRODUCTION

Appointment

- 1.1 WML Consulting has been commissioned by Westshield Ltd to undertake a Phase 1 Desk Study and Preliminary Geoenvironmental Assessment of two sites within The Stand Golf Club, Bury.

Proposed Development

- 1.2 At this stage development plans have not been made available however it is understood that that the project comprises the development of the existing club house and small section of golf course (Site A in the north-east) for residential housing, with private gardens and hardstanding for access and parking.
- 1.3 A new clubhouse, with car park will be constructed in the south-west, within the Site B area, as outlined on the red-line drawing in Appendix 01.

Objective

- 1.4 The purpose of the desk study is to collate available geological and environmental data for the site and its environs in order to undertake a preliminary geotechnical and geoenvironmental appraisal and thus inform a site-specific conceptual model.
- 1.5 This enables a preliminary assessment of geo-environmental risks to be undertaken and provides information for the design of a geotechnical and geo-environmental ground investigation.
- 1.6 This follows current recommendations set out in the Environment Agency (EA) Model Procedures for Land Contamination Risk Management, updated July 2023.

Scope

- 1.7 The desk study has comprised a site reconnaissance visit on 8th November 2024 and a review of the following information sources:
- British Geological Survey (BGS) 1:50,000 scale, Sheet 85 'Manchester' (Bedrock and Superficial, and Bedrock editions).
 - BGS Digital Geological Map of Great Britain (DiGMapGB-50; available as a web map service).
 - The site and surrounding area's geological and environmental setting from data presented in the site specific GroundSure Environmental Insight Report (Appendix 03).
 - Historical Ordnance Survey maps as provided by GroundSure (Appendix 03).
 - Coal Authority Report (Appendix 04).
 - BRE Publication 211 (2023) "Radon: Guidance on Protective Measures for New Buildings".
 - UK Radon Maps available at UK Health Security Agency.
 - Review of free public sector information through QGIS viewer licensed under the Open Government Licence v3.0.

2.0 SITE SETTING

Description	Comments
Site Address	The Stand Golf Club Dales Lane Bury M45 7NL
National Grid Reference	379452E, 405814N
Site Area	6 hectares
Site Location	The site comprises two distinct areas within the larger golf club, namely: Site A (proposed new residential housing) is bounded by:- North – Polyflor – industrial development. East – Residential housing. South & West – Golf Club greens. Site B (proposed new club house) is bounded by:- North & East– Golf Club greens. South – Residential housing. West – Ringley Road and undeveloped land beyond. A site location plan is provided in Appendix 01.
Site Description	<u>Site A</u> The site is located at the north-eastern edge of the Golf Club and comprises an existing low rise golf clubhouse, of presumed brick construction. This is edged to the north-east and south with asphalt which provides access and parking off Ashbourne Grove. The north-eastern boundaries of the site are demarcated by a short slope down to the adjacent West View Grove and its junction with Ashbourne Grove. The slope is surfaced with concrete paving slabs. A small electricity sub-station is located at / close to the boundary with the adjacent residential housing off Ashbourne Grove. The remaining sections of Site A are generally formed by the golf greens and sand bunkers. However, the extreme northern section also includes areas of dense vegetation including mature trees of varying species. <u>Site B</u> This section of the site appears generally disused and is surfaced with rough grass and low-lying vegetation. However, a hedgerow with mature deciduous trees of varying species are located along the north-western, western and southern boundaries of the site. A telecommunications mast is located on the south-western site boundary and a public footpath runs along the eastern site boundary. Photographs of the site areas are provided in Appendix 02.

Description	Comments
Topography	At the time of reporting no topographic survey information was available for review. However, aerial imagery indicates Site A to be at around 115m Above Ordnance Datum (AOD) in the area of the club house falling eastwards to between 111m and 113m AOD across the undulating greens and bunkers. Site B also appears to generally slop to the north, undulating between 123m and 125m AOD.

3.0 ENVIRONMENTAL SETTING

- 3.1 The following sections on the environmental setting of the site are summarised from the GroundSure Enviro Insight Report and a review of the information sources outlined within Section 1.7.
- 3.2 Both sites are summarised together unless specifically noted.
- 3.3 It should also be noted that the linear area depicted on the Groundsure report, outside the Site A and Site B areas, does not form part of the site area.

Description	Comments	
Geology (1:50, 000 scale Map Sheet and digital mapping)	Artificial Deposits	None within the site boundary.
	Superficial Deposits	The majority of the two sites are underlain by Devensian Glaciofluvial Deposits, which mainly comprise sand and gravel. However, the south-western section of Site B is inferred to be underlain by Glacial Till, which generally comprises clay with subordinate horizons of sand and gravel.
	Solid Strata	The superficial deposits in both sites are inferred to be underlain by the Chester Formation, comprising a pebbly sandstone. This is likely to be weathered to an unknown degree in the upper few metres. However, the section of golf course between Site A and Site B is underlain by the Westphalian Pennine Middle Coal Measures which generally comprise mudstone, siltstone and sandstone with subordinate coal seams. Although, it cannot be discounted that the Coal Measures exist beneath the Site A and Site B, these would be below the Chester Formation at significant depths.
	BGS Boreholes	BGS borehole SD70NE257 located in the southern section of the gold course south east of Site B recorded variable orange and brown sand and gravel with horizons of silt to a depth of 34.50mbgl. However, the base of the strata was not encountered.
	Geological Faults	A normal fault is inferred to extend roughly north-west to south-east within the central part of Site A, with a downthrow to the south-west. A second fault extends roughly north-west to south-east north-east of Site B, with a downthrow to the south-west. Faults in the UK are generally inactive and do not pose a significant risk to of ground

Description	Comments	
		movement, particularly in relation to the indicated geology.
Radon	The property is not in a radon affected area as defined by the UK Health Security Agency as less than 1% of properties are above the action level of exposure. Therefore, no radon protection measures are necessary for new structures as described in publication BR211 by the Building Research Establishment.	
Mining and Subsidence	In consideration of the geology between the two site areas and localised faulting a Coal Authority Report was obtained and presented in Appendix 04. The CA report indicates that the wider Golf Club site is underlain by known workings at depths of 288m and 392mbgl within the Roger Coal and Rams Mine respectively. These are located at depths that would not pose a risk of surface subsidence. Although the CA considers that the site is underlain by probable unrecorded shallow mine workings, it should be noted that this relates to the central section of the Golf Club site where underlain by the Pennine Middle Coal Measures. Any such working beneath Site A and B would be at depths beyond the influence of surface subsidence below the overlying Chester Formation. No notice of the risk of the land being affected by subsidence has been given under the Coal Mining Subsidence Act 1991 and the Authority has not received a damage notice or claim for the subject property, or other property within 50m, since records began in 1994. The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out Procedure. There are known mine entries within 100m of the site boundary. Online Coal Authority interactive maps indicates that neither Site A nor Site B is not situated within a Development High Risk area. In consideration of the above and the underlying geological strata, risks of subsidence from coal mining can be discounted. Risk from non-coal mining activity at the site are also considered low and can be discounted.	
Hydrogeology	Superficial Aquifers	Secondary A Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. Although not indicated in the Groundsure report Glacial Till as inferred to be encountered by the BGS are usually classified as Unproductive.
	Bedrock Aquifer	Principal Aquifer Geology of high intergranular and/or fracture permeability, usually providing a

Description	Comments	
		high level of water storage and may support water supply/river base flow on a strategic scale.
	Source Protection Zone (SPZ)	None within 500m.
	Groundwater Abstractions within 1km	1no active 195m east for spray irrigation only.
Hydrology	Surface Water Features	A small isolated pond is located between Site A and Site B with a small reservoir some 250m north-west.
	Surface Water Abstractions within 500m	None.
Landfill and Waste Management Activity	Active Landfill within 500m	None.
	Historical (EA/Local Authority) Landfill within 250m	There are 2no historic landfill sites within the wider Golf Club site some 142m north-west of Site B. These appear to have accepted inert materials and based on size and shape, may have been infill to former bunkers, although no further information is provided.
	Other Waste Sites within 250m	None active.
Industrial Land Use Information	There are 13no potentially contaminative industrial sites within 250m of the subject site. The closest of these are recorded as:	
	Distance (m)	Direction
	Site A	-
	Site B	-
	80	SW
	135	NE
	Underground High-pressure Pipelines within 500m	None.
	Petrol Filling Stations within 250m	None.

Description	Comments		
Environmental Permits, Incidents and Registers	Permits Incidents/Registers	Distance (m)	Comments
	IPC Authorisations, Part A(1),	151 E	Combustion plant
	Part A(2) Authorised Activities	250	None
	Part B IPPC Authorised Activities	218 N	Coating process permit
	List 1 or List 2 Dangerous Substances Inventory Sites	250	None
	Licensed Discharge Consents	250	None
	Radioactive Substance Authorisations	250	None
	Recorded Pollution Incidents	226 N	Minor impact to water from waste soils
	Contaminated Land - Section 78R of the Environmental Protection Act 1990	250	None
Potential Flood Risk	Detailed assessment of flood risk is outside the scope of this report. However, reference to the EA website and the Groundsure report indicates that the risk of flooding from rivers and the sea (RoFRaS) is currently designated as 'very low'. The site is indicated on BGS records to be within an area which is considered to have a 'negligible' risk from groundwater flooding.		
Environmentally Sensitive Sites	There are no designated environmentally sensitive sites within 500m of the study site. Site B is located within a Grade 3 Agricultural Land Classification with good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield.		
Archaeological Information	No archaeological information has been obtained for the purpose of this report. Where considered appropriate, reference should be made to an archaeological consultant in this respect.		

4.0 HISTORICAL SETTING

- 4.1 The historical development of the site has been determined by reference to archive Ordnance Survey (OS) map extracts obtained from the GroundSure EnviroInsight Report in Appendix 03.

Site Areas

Site A

- 4.2 The earliest map dated 1848 indicates the site to comprise undeveloped rural land with a residential structure in the south-eastern section, referred to as The Dales.
- 4.3 The Golf Course was developed around 1907 but by 1938 the subject site had been developed roughly into its current configuration which included the repurposing and extension to the club house building. The Groundsure report also notes the potential electricity sub-station at or close to the southern boundary of the site.

Site B

- 4.4 The earliest map dated 1848 indicates the site to comprise undeveloped rural land, with several field boundaries and a small pond in the eastern section.
- 4.5 By 1988, the pond had been infilled, but the site appears to have remained undeveloped to the present time.

Surrounding Areas

- 4.6 The surrounding area initially comprised predominantly rural/agricultural land, with local development primarily comprising isolated residential properties with the Crow Oak Works sand reservoirs some 250m north-west of Site A. By 1932, additional residential development had been undertaken around the larger Golf Club site. By the early 1980's the Crow Works had expanded close to the north-western apex of Site A and was referred to as Polyflor.
- 4.7 Therefore, on the basis of the previous site use, no significant widespread sources of ground contamination are envisaged.
- 4.8 However, the potential for more localised contamination on either is considered low but cannot be wholly discounted at this stage.
- 4.9 Contamination on Site A could also include Asbestos Containing Materials (ACM) within existing structures and near surface soils as a result of historical and unspecified works within the site.

5.0 PRELIMINARY CONTAMINATION RISK ASSESSMENT

Introduction

- 5.1 The following paragraphs outline a Preliminary Risk Assessment (PRA) for the site as defined by DEFRA and the EA Model Procedures for Land Contamination Risk Management, updated July 2023.
- 5.2 The table in Paragraph 5.4 provides a Preliminary Conceptual Model (PCM) which defines the site in terms of a potential contamination linkage, that is, whether a pathway exists between a contamination source and a sensitive environmental receptor (Source-Pathway-Receptor relationship).
- 5.3 The table considers whether a contamination linkage is potentially present or not and provides a preliminary qualitative assessment of risk, based on the information currently available and in accordance with guidance provided in the CIRIA document C552 (2001) Contaminated Land Risk Assessment – A Guide to Good Practice. The risk evaluation process is described further in Appendix 05.
- 5.4 Where a possible linkage is identified, it does not necessarily mean that a significant risk exists, but indicates that further information is required through appropriate site investigation to substantiate the conceptual model.

Source	Pathway	Receptor	Probability of Linkage	Comment
The likelihood of significant ground contamination sources being present at the site due to its past use is considered low, and likely to be limited to construction and demolition materials associated with historic development activities and localised historic infilling.	Direct contact, ingestion of soil, dermal contact, dust exposure pathways.	Current Site Users	Unlikely	Site A: The site is currently used as a golf course clubhouse and ancillary buildings, parking and soft landscaping. Therefore, the risk to current site users from direct exposure to ground contamination is considered LOW. Site B: The site is currently in transient use and has never been developed. As such, no long-term direct exposure scenario is envisaged. Therefore, the risk to current site users from direct exposure to ground contamination is considered VERY LOW.
		Site End Users	Low	Site A: The provision of new buildings and new hard cover will break any direct pollution linkage, however the change to a residential land use will introduce more sensitive receptor. The overall preliminary risk is therefore considered to be LOW. Site B: The provision of new buildings and new hard cover will break any direct pollution linkage, thus providing a LOW preliminary risk.

Source	Pathway	Receptor	Probability of Linkage	Comment
		Construction Workers	Unlikely	Construction workers are unlikely to be exposed to contaminated soils during earthworks and foundation construction. In any event, the exposure time will be relatively short. Also, any contamination risks will be mitigated by adopting good site working practices including appropriate health and safety measures during the works, thus providing a LOW preliminary risk.
		Adjacent land users	Unlikely	Contact via wind-blown dust/debris, particularly during the development phase is possible although the exposure time would be relatively short. The current risk is considered VERY LOW , although this could increase during construction works. Appropriate health and safety measures adopted during site development, including dust control and the controlled removal of any detected ACM, will ensure that the risk remains low.
The likelihood of significant soluble and/or liquid, and therefore mobile contaminants occurring at the site due to its past use is considered generally low.	Direct downward migration through leaching and/or mobile liquids.	Groundwater	Unlikely	The site is indicated to be underlain by a Secondary A (superficial) Aquifer and a Principal (bedrock) Aquifers. However, the historical use of Site A is unlikely to have resulted in the presence of significant contamination and Site B has remained undeveloped. Therefore, the preliminary risk to groundwater is considered VERY LOW .
	Off-site migration in groundwater or surface water flow.	Surface water	Unlikely	The nearest surface water feature is a pond located between Site A and B. However, no significant sources of mobile contaminants are anticipated on the basis of current and historic land use. Therefore, the risk to surface water is considered LOW .
		Groundwater and surface water abstractions	Unlikely	The site is not within an EA SPZ and no abstractions have been identified within 1km. Therefore, risks to groundwater/surface water abstractions are considered VERY LOW .

Source	Pathway	Receptor	Probability of Linkage	Comment
		Adjacent Properties	Unlikely	No significant sources of mobile contaminants are anticipated with no driver for significant lateral migration. Therefore, the consequence of any unlikely impact is considered mild and the preliminary risk to adjacent properties considered LOW .
		Ecology	No linkage anticipated	There are no ecologically sensitive sites within influencing distance of the subject site. The risk to the surrounding ecology from any contamination arising from the site is therefore considered VERY LOW .
The likelihood of volatile contaminants occurring at the site due to its past use is considered low.	Inhalation of harmful vapours (indoor and outdoor airspaces)	Current Site Users	Unlikely	Significant sources of volatile contaminants at the site are not anticipated. Therefore, the preliminary risk to current site users is respectively assessed as VERY LOW .
		Site End Users	Low	Significant sources of volatile contaminants at the site are not anticipated. The preliminary risk is therefore considered LOW .
		Construction Workers	Unlikely	In the unlikely event of construction workers coming into contact with possible volatile compounds, the exposure time will be relatively short. The chronic exposure risk to construction workers, assuming that appropriate health and safety measures will be adopted, is therefore considered LOW .
		Adjacent Properties	Unlikely	Significant sources of volatile contaminants at the site are not anticipated. Therefore, the preliminary risk to adjacent properties and users is assessed as VERY LOW .
No landfill sites have been identified within influencing distance of the site, but infilled land is anticipated in the wider golf club with a potential source of ground gas generation. However, due to the age of infilling	Emissions from the ground beneath the site collecting in confined spaces and excavations	Construction/ services maintenance workers	Low	The potential to generate significant volumes of toxic and/ or flammable/ explosive gas beneath the site is considered low. Assuming that appropriate health and safety measures will be adopted during construction, the preliminary risk is considered LOW .
	Migration of gases on/off site and collecting in confined spaces on/off site.	Adjoining site users	Unlikely	The potential to generate significant volumes of toxic and/ or flammable/ explosive gas beneath the site is considered low. Therefore, the preliminary risk to adjacent properties from the site is considered VERY LOW .

Source	Pathway	Receptor	Probability of Linkage	Comment
generation is likely to be low. The presence of ground gas resulting from shallow unrecorded mine workings can be discounted. No significant thicknesses of degradable soils are anticipated beneath the site.		Current site users	Low	The potential to generate significant volumes of ground gas beneath the site and surrounding areas is considered low. The preliminary risk to site end users is therefore considered LOW .
		Future site users	Low	The potential to generate significant volumes of ground gas beneath the site is considered low. However, the potential for migration of ground gas from external sources cannot be fully discounted but due the age of infilling, is not likely to provide a significant source. The preliminary risk to site end users is therefore considered LOW .
The site is not within an area which is affected by naturally occurring radon gas.	Natural emissions from the ground collecting in confined spaces within buildings	Site end users	No linkage anticipated	The site is not located in an area where radon protection measures are required. Therefore, the potential risk to site end users is considered LOW .
Chemicals which could prove aggressive to construction materials are unlikely to be present beneath the site.	Direct contact	Construction concrete, plastic water pipes.	Unlikely	Any risks to construction materials identified after site investigation and assessment will be mitigated as part of the structural design. The perceived risk is therefore considered LOW .

Preliminary Risk Assessment

- 5.5 Under the proposed development scenario, potential pollution linkages are, on the whole, considered unlikely or low with associated preliminary risks generally being assessed as very low to low.
- 5.6 The approach at the Phase 1 Desk Study stage must, however, be precautionary until such time as uncertainties in the conceptual model can be verified by appropriate site investigation.
- 5.7 However, uncertainty relating to the localised potential presence of Polychlorinated Biphenols (PCB's) within the southern section of Site A, associated with the electricity sub-station cannot be fully discounted.
- 5.8 Also, it cannot be discounted that ACM could be present within the existing structures, although it is assumed that all buildings to be demolished will be subject to a pre-demolition asbestos survey, with any ACM so identified being removed by a suitably licensed asbestos contractor.

6.0 PRELIMINARY GEOTECHNICAL AND OTHER CONSIDERATIONS

Considerations	Summary
Asbestos in Existing Structures	No demolition should proceed until an appropriate asbestos survey of the existing buildings has been undertaken and any Asbestos Containing Materials (ACM) removed by an appropriately licensed contractor.
Electricity Sub-Station	Due to the potential age of the sub-station in Site A, it is advised that discussions should be held with the statutory service provider regarding the status of the facility and particularly whether any equipment potentially containing PCB's has been appropriately de-commissioned. Therefore, it cannot be discounted that a degree of ground remediation may be required local to the facilities.
Earthworks	No significant earthworks are anticipated subject to the results of a topographical survey.
Obstructions	Existing foundations to the current and former structures in Site A, will need to be broken out to suitable depths below formation levels where they are to impinge on the proposed redevelopment.
Slopes	The north-western section of Site A forms an elevated platform above the surrounding land. The changes in elevation are accommodated by a short, steep slope, surfaced with concrete pavers. Consideration will need to be given to the short and long-term stability of the slope, particularly where development is to encroach on the slope crest.
Foundations	New structures at the site could potentially be supported on conventional shallow spread foundations on competent superficial deposits. However, if where development includes structures over two storeys or incompetent soils are encountered new structures may need to be piled. This will need to be confirmed by ground investigation and testing of near surface soils.
Soakaways	In consideration of the anticipated presence of sands and gravels at shallow depth soakaways may be a feasible drainage option, subject to full scale BRE testing.
Services	The location of all statutory and private services will need to be established so that these do not impact on the proposed development layout.

7.0 SUMMARY AND RECOMMENDATIONS

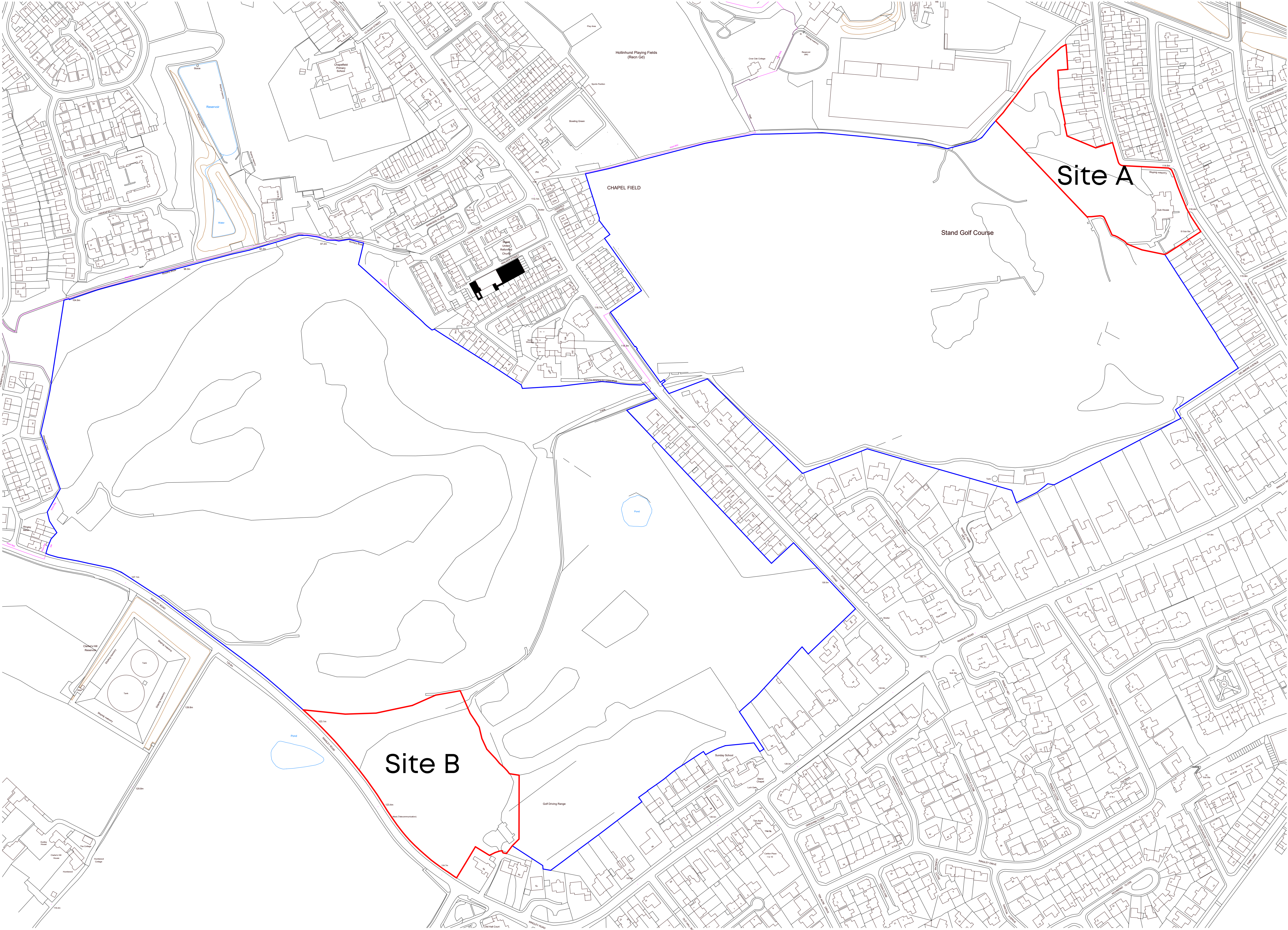
Development Considerations	Comments
Asbestos	An asbestos survey of the structures will be required prior to demolition.
Flood Risk	Very low risk.
Coal Mining	Due to the underlying geology Site A and Site B risks of subsidence are very low and can be discounted.
Foundations	Potentially traditional shallow strip/pad foundations on competent superficial deposits. This will need to be confirmed by ground investigation.
Ground Contamination	The likelihood of widespread ground contamination sources being present beneath the site is considered low. Notwithstanding this, potential ground contamination associated with the electricity sub-station in Site A cannot be wholly discounted without confirmatory ground investigations. The presence of ACM in near surface soils and the existing building cannot also be discounted.
Hazardous Ground Gas	Low risk subject to confirmation that no significant thicknesses of made ground or organic soils are located beneath the site areas.
Radon	No radon protection measures are required.
Soakaway Drainage	The ground may be amenable to soakaway drainage, although ground investigations will be required to assess the soil suitability.

Ground Investigation

- 7.1 Ground investigations will be necessary to provide information on the physical and chemical ground conditions. This will enable assumptions made in the preliminary site conceptual model to be confirmed or modified so as to assess the actual environmental risks posed by the site.
- 7.2 The investigation will comprise sampling and chemical analysis of the near surface soil and possibly groundwater. Investigations will also need to include monitoring for ground gas to assess the risks.
- 7.3 Ground investigations will also provide parameters for the preliminary design of foundations, floor slabs and external pavements.
- 7.4 Site investigations will be undertaken in accordance with British Standard Institution (BSI), Code of Practice for Ground Investigations – BS5930:2015 + A2:2010 and Investigation of Potentially Contaminated Sites – Code of Practice. BS 10175:2011 +A2:2017.

APPENDIX 01

Drawings



Overall Site	
Name	Area
Site A- Residential	15,964 m²
Site B- Club House	23,138 m²

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CLIENT:
Westshield

PROJECT:
The Stand Golf Club
Bury, M45 7NL

DRAWING NUMBER:
23036-PJA-00-ZZ-DR-A-1000

DRAWING TITLE:
Overall Site- LocationPlan

STATUS:
PRELIMINARY

SCALE: 1: 2000@A1 DATE: 06/18/24 BY: EG CHECKED: SH

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APPENDIX 02

Site Photographs



Photograph 1

View north across area of car parking in the eastern part of Site A with the existing clubhouse in the left of the picture.



Photograph 2

View west along the southern elevation of the existing clubhouse in Site A.



Photograph 3
View south-west across area of car parking in the south-eastern corner of Site A.



Photograph 4
View south-east towards the western elevation of the existing clubhouse in Site A.



Photograph 5
View north-west across the eastern part of Site A with mature deciduous trees in the background.



Photograph 6
View south across the southern part of Site A with neighbouring mature deciduous trees in the background.



Photograph 7

View north-west across the central part of Site A with mature deciduous trees in the background.



Photograph 8

View east across the central part of Site A with mature deciduous trees and clubhouse in the background.



Photograph 9
View north-west across the northern part of Site A with neighbouring industrial development beyond.



Photograph 10
View south-west towards a waterlogged low point in the northern corner of Site A with neighbouring wooded embankment beyond.



Photograph 11

View north-west across the eastern part of Site B with semi-mature deciduous trees on the eastern site boundary in the right of the picture.



Photograph 12

View north-west across the central part of Site B with mature deciduous trees forming the northern site boundary in the background.



Photograph 13

View south-west across the southern part of Site B with semi-mature deciduous trees on the southern site boundary in the left of the picture.



Photograph 14

View west across the northern part of Site B with mature deciduous trees forming the northern site boundary in the background.



Photograph 15

View west across the southern part of Site B with semi-mature deciduous trees on the western site boundary in the background.



Photograph 16

View south along the public footpath running along the eastern boundary of Site B.

APPENDIX 03

Groundsure EnviroInsight and GeoInsight Report

STAND GOLF CLUB, ASHBOURNE GROVE, RADCLIFFE, BURY, M45 7NL

Order Details

Date: 28/10/2024
Your ref: 11745G - The Stand
Our Ref: HMD-424-F3S-FDC-202-MRC

Site Details

Location: 379452 405814
Area: 6.02 ha
Authority: [Bury Metropolitan Borough Council](#) ↗



Summary of findings

[p. 2 >](#) **Aerial image**

[p. 9 >](#)

OS MasterMap site plan

[p.14 >](#) [Insight User Guide](#) ↗

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	2	5	52	87	-
21 >	1.2 >	Historical tanks >	0	0	11	34	-
23 >	1.3 >	Historical energy features >	0	0	5	16	-
24	1.4	Historical petrol stations	0	0	0	0	-
24 >	1.5 >	Historical garages >	0	0	3	2	-
25	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
26 >	2.1 >	Historical industrial land uses >	3	6	91	137	-
35 >	2.2 >	Historical tanks >	0	0	16	62	-
38 >	2.3 >	Historical energy features >	0	0	12	27	-
40	2.4	Historical petrol stations	0	0	0	0	-
40 >	2.5 >	Historical garages >	0	0	4	3	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
41	3.1	Active or recent landfill	0	0	0	0	-
41	3.2	Historical landfill (BGS records)	0	0	0	0	-
42 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	1	-
42 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	2	2	-
43 >	3.5 >	Historical waste sites >	0	0	2	1	-
44 >	3.6 >	Licensed waste sites >	0	0	0	2	-
44 >	3.7 >	Waste exemptions >	0	0	4	6	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
46 >	4.1 >	Recent industrial land uses >	2	0	11	-	-
47 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
48	4.3	Electricity cables	0	0	0	0	-
48	4.4	Gas pipelines	0	0	0	0	-
48	4.5	Sites determined as Contaminated Land	0	0	0	0	-



48	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
48	4.7	Regulated explosive sites	0	0	0	0	-
49	4.8	Hazardous substance storage/usage	0	0	0	0	-
49	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
49 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	1	1	-
50 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	2	1	-
50	4.12	Radioactive Substance Authorisations	0	0	0	0	-
50	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
51	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
51	4.15	Pollutant release to public sewer	0	0	0	0	-
51	4.16	List 1 Dangerous Substances	0	0	0	0	-
51	4.17	List 2 Dangerous Substances	0	0	0	0	-
51 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	1	5	-
52	4.19	Pollution inventory substances	0	0	0	0	-
53	4.20	Pollution inventory waste transfers	0	0	0	0	-
53	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
54 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
56 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
58 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
60	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
60	5.5	Groundwater vulnerability- local information	None (within 0m)				
61 >	5.6 >	Groundwater abstractions >	0	0	7	0	14
67 >	5.7 >	Surface water abstractions >	0	0	0	0	3
68 >	5.8 >	Potable abstractions >	0	0	0	0	3
69	5.9	Source Protection Zones	0	0	0	0	-
69	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
70	6.1	Water Network (OS MasterMap)	0	0	0	-	-



70 >	6.2 >	Surface water features >	0	1	2	-	-
71 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
71 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
72 >	6.5 >	WFD Groundwater bodies >	2	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
73	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
73	7.2	Historical Flood Events	0	0	0	-	-
73	7.3	Flood Defences	0	0	0	-	-
74	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
74	7.5	Flood Storage Areas	0	0	0	-	-
75	7.6	Flood Zone 2	None (within 50m)				
75	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
76 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
78 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
79	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
80	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
80	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
80	10.4	Special Protection Areas (SPA)	0	0	0	0	0
80	10.5	National Nature Reserves (NNR)	0	0	0	0	0
81 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	1	5
81 >	10.7 >	Designated Ancient Woodland >	0	0	0	1	7
82	10.8	Biosphere Reserves	0	0	0	0	0
82	10.9	Forest Parks	0	0	0	0	0
82	10.10	Marine Conservation Zones	0	0	0	0	0
82 >	10.11 >	Green Belt >	1	0	0	1	4
83	10.12	Proposed Ramsar sites	0	0	0	0	0



83	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
83	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
84	10.15	Nitrate Sensitive Areas	0	0	0	0	0
84 >	10.16 >	Nitrate Vulnerable Zones >	0	1	0	0	0
85 >	10.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
86	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
87	11.1	World Heritage Sites	0	0	0	-	-
88	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
88	11.3	National Parks	0	0	0	-	-
88 >	11.4 >	Listed Buildings >	0	0	3	-	-
89 >	11.5 >	Conservation Areas >	0	0	1	-	-
89	11.6	Scheduled Ancient Monuments	0	0	0	-	-
89	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
90 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
91	12.2	Open Access Land	0	0	0	-	-
91	12.3	Tree Felling Licences	0	0	0	-	-
91	12.4	Environmental Stewardship Schemes	0	0	0	-	-
91	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
92 >	13.1 >	Priority Habitat Inventory >	3	1	3	-	-
93 >	13.2 >	Habitat Networks >	0	0	1	-	-
93 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
94	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	14.1 >	10k Availability >	Identified (within 500m)				
96 >	14.2 >	Artificial and made ground (10k) >	0	0	10	9	-
98 >	14.3 >	Superficial geology (10k) >	2	2	2	6	-



99 >	14.4 >	Landslip (10k) >	0	0	0	5	-
100 >	14.5 >	Bedrock geology (10k) >	5	3	7	14	-
102 >	14.6 >	Bedrock faults and other linear features (10k) >	5	2	3	8	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
104 >	15.1 >	50k Availability >	Identified (within 500m)				
105	15.2	Artificial and made ground (50k)	0	0	0	0	-
105	15.3	Artificial ground permeability (50k)	0	0	-	-	-
106 >	15.4 >	Superficial geology (50k) >	2	1	0	3	-
107 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
107 >	15.6 >	Landslip (50k) >	0	0	0	2	-
108	15.7	Landslip permeability (50k)	None (within 50m)				
109 >	15.8 >	Bedrock geology (50k) >	5	1	6	8	-
110 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
111 >	15.10 >	Bedrock faults and other linear features (50k) >	5	1	2	5	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
112 >	16.1 >	BGS Boreholes >	0	0	3	-	-
Page	Section	Natural ground subsidence >					
114 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
116 >	17.2 >	Running sands >	Very low (within 50m)				
118 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
119 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
120 >	17.5 >	Landslides >	Very low (within 50m)				
122 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
124 >	18.1 >	BritPits >	0	0	2	1	-
125 >	18.2 >	Surface ground workings >	1	10	105	-	-
130 >	18.3 >	Underground workings >	0	0	0	10	3
130	18.4	Underground mining extents	0	0	0	0	-
131 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	2	-



131	18.6	Non-coal mining	0	0	0	0	0
131 >	18.7 >	JPB mining areas >	Identified (within 0m)				
132	18.8	The Coal Authority non-coal mining	0	0	0	0	-
132	18.9	Researched mining	0	0	0	0	-
132	18.10	Mining record office plans	0	0	0	0	-
132	18.11	BGS mine plans	0	0	0	0	-
133 >	18.12 >	Coal mining >	Identified (within 0m)				
133	18.13	Brine areas	None (within 0m)				
133	18.14	Gypsum areas	None (within 0m)				
133	18.15	Tin mining	None (within 0m)				
133	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
134	19.1	Natural cavities	0	0	0	0	-
134	19.2	Mining cavities	0	0	0	0	0
134	19.3	Reported recent incidents	0	0	0	0	-
134	19.4	Historical incidents	0	0	0	0	-
135	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
136 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
138 >	21.1 >	BGS Estimated Background Soil Chemistry >	8	11	-	-	-
139	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
139	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
140	22.1	Underground railways (London)	0	0	0	-	-
140	22.2	Underground railways (Non-London)	0	0	0	-	-
141	22.3	Railway tunnels	0	0	0	-	-
141	22.4	Historical railway and tunnel features	0	0	0	-	-
141	22.5	Royal Mail tunnels	0	0	0	-	-



141	22.6	Historical railways	0	0	0	-	-
141 >	22.7 >	Railways >	0	0	6	-	-
142	22.8	Crossrail 1	0	0	0	0	-
142	22.9	Crossrail 2	0	0	0	0	-
142	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 07/04/2023

Site Area: 6.02ha



Recent site history - 2019 aerial photograph



Capture Date: 22/05/2019

Site Area: 6.02ha



Recent site history - 2015 aerial photograph



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Capture Date: 11/06/2015

Site Area: 6.02ha



Recent site history - 2011 aerial photograph



Capture Date: 01/05/2011

Site Area: 6.02ha



Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

Site Area: 6.02ha



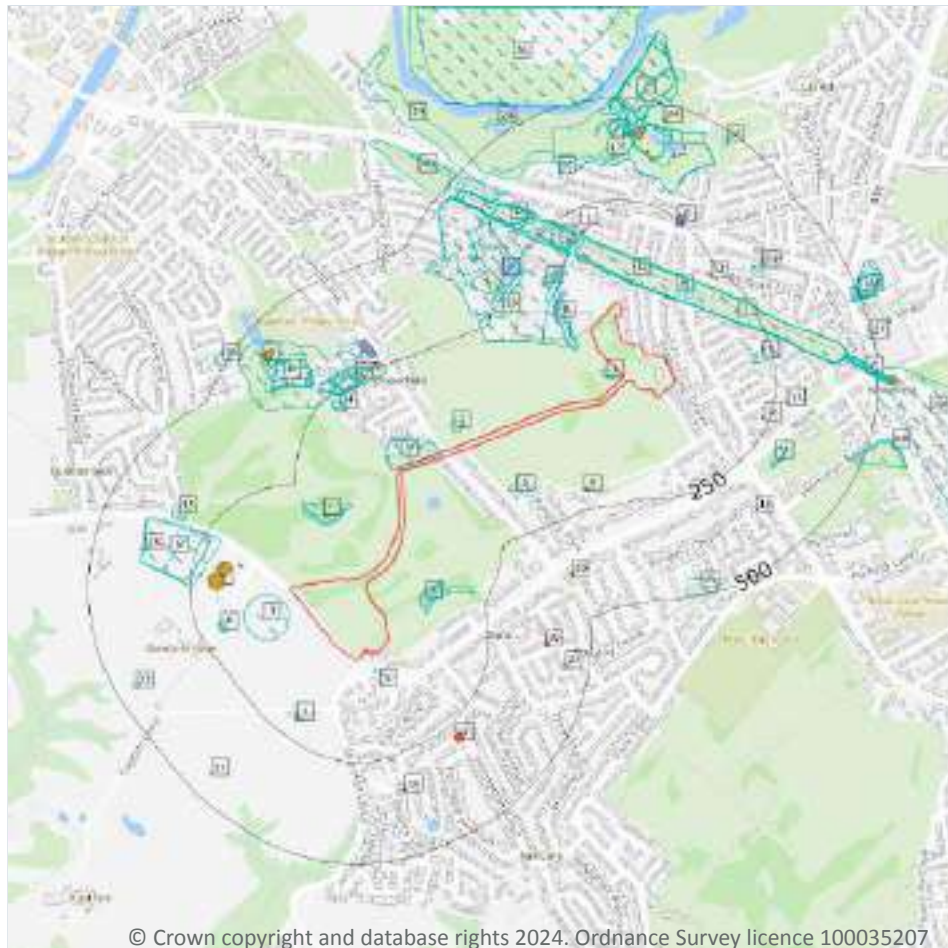
OS MasterMap site plan



Site Area: 6.02ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

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1.1 Historical industrial land uses

Records within 500m

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Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Nursery	1955	731215



ID	Location	Land use	Dates present	Group ID
A	On site	Nursery	1927 - 1938	794851
1	9m NE	Refuse Heap	1965	656023
2	33m N	Unspecified Pit	1850	675068
3	34m SW	Sand Pit	1891	674054
B	43m NE	Unspecified Ground Workings	1955	792667
B	47m NE	Unspecified Ground Workings	1932 - 1938	800983
C	51m NE	Unspecified Works	1988 - 1991	740883
D	53m NE	Cuttings	1891	770260
D	56m NE	Cuttings	1907 - 1923	757564
4	57m NE	Cuttings	1923 - 1938	707844
D	59m NE	Cuttings	1955 - 1991	750261
E	91m S	Unspecified Heap	1977	688301
E	97m S	Refuse Heap	1927 - 1938	725958
E	99m S	Unspecified Ground Workings	1965	661463
F	116m W	Unspecified Pit	1965 - 1977	708961
C	116m NE	Unspecified Works	1977	773724
G	123m NE	Unspecified Ground Workings	1955	772318
6	125m E	Unspecified Ground Workings	1965 - 1977	765385
F	129m W	Unspecified Ground Workings	1927 - 1938	767000
G	134m NE	Sand Pit	1848	674066
G	143m NE	Refuse Heap	1908	655451
I	143m NE	Cuttings	1891 - 1907	752614
I	145m NE	Cuttings	1915 - 1923	760870
I	148m NE	Cuttings	1955 - 1981	712213
G	150m NE	Unspecified Ground Workings	1932 - 1938	716641
H	157m W	Unspecified Tanks	1977 - 1991	737103
J	164m NE	Cuttings	1891	787261
J	171m NE	Cuttings	1955 - 1965	741684



ID	Location	Land use	Dates present	Group ID
J	176m NE	Cuttings	1915	782202
J	176m NE	Cuttings	1907	794841
K	181m SW	Refuse Heap	1955	734931
J	182m N	Cuttings	1977 - 1991	752477
7	182m SW	Sand Pit	1850	674055
L	190m NE	Unspecified Pit	1891	675416
K	190m SW	Refuse Heap	1927 - 1938	741525
M	190m NW	Refuse Heap	1955	773363
8	191m NE	Unspecified Heap	1965 - 1981	782186
M	192m NW	Unspecified Heap	1965	688268
M	198m NW	Refuse Heap	1927 - 1938	724123
10	201m N	Unspecified Pit	1891	675417
N	207m W	Disused Workings	1988 - 1991	725670
C	213m N	Unspecified Works	1908 - 1938	797443
C	213m N	Unspecified Works	1955 - 1965	790921
J	215m N	Cuttings	1908	756545
O	215m N	Cuttings	1891	716154
C	222m N	Unspecified Works	1891	779197
P	223m NW	Leather Works	1891	666109
P	223m NW	Unspecified Commercial/Industrial	1908	670378
P	224m NW	Unspecified Works	1955	743853
P	226m NW	Unspecified Mills	1977	758251
P	227m NW	Unspecified Mills	1988 - 1991	755122
P	227m NW	Unspecified Works	1927 - 1938	717600
C	229m N	Bleach Works	1850	684858
P	229m NW	Foundry	1850	668534
N	229m W	Unspecified Pit	1965 - 1977	788176
N	230m W	Refuse Heap	1938 - 1955	733709



ID	Location	Land use	Dates present	Group ID
P	233m NW	Unspecified Mill	1965	673304
R	245m NW	Unspecified Mills	1927 - 1938	755347
P	275m NW	Cotton Mill	1850	654607
O	285m N	Cuttings	1955	776584
R	289m NW	Unspecified Mills	1955	725268
P	291m NW	Tanks	1850	674497
O	292m N	Cuttings	1908 - 1938	767357
R	294m NW	Unspecified Mill	1965	783043
R	295m NW	Unspecified Mills	1891 - 1908	775957
T	295m NE	Bleach and Dye works	1938	711609
T	295m NE	Bleach Works	1891 - 1907	724612
T	295m NE	Bleach and Dye works	1915 - 1923	765307
O	296m N	Cuttings	1988 - 1991	717881
O	296m N	Cuttings	1965	720706
O	296m N	Cuttings	1977	738843
U	300m E	Unspecified Heap	1932 - 1938	741077
14	303m NE	Sand Pit	1915 - 1923	772599
U	304m E	Unspecified Ground Workings	1955	661265
R	305m NW	Unspecified Mill	1977 - 1991	720201
15	312m W	Dairy	1965 - 1977	716950
C	333m N	Unspecified Tank	1965 - 1977	737821
R	334m NW	Bleach Works	1850	684857
V	335m N	Unspecified Depot	1988 - 1991	781853
V	336m NE	Unspecified Ground Workings	1927 - 1938	707304
T	353m NE	Unspecified Works	1965	683115
17	354m NE	Unspecified Heap	1965 - 1991	746265
T	363m NE	Chemical Works	1955	682470
T	365m NE	Bleach and Dye works	1932	740604



ID	Location	Land use	Dates present	Group ID
18	366m W	Sand Pit	1850	674198
O	375m N	Unspecified Ground Workings	1927 - 1938	760120
T	381m NE	Unspecified Tank	1923	697270
O	386m N	Unspecified Ground Workings	1955	796339
T	389m NE	Unspecified Tank	1923	697269
T	390m NE	Unspecified Tank	1907	697528
T	397m NE	Unspecified Tank	1923	697268
O	399m N	Cuttings	1965 - 1991	753988
T	404m NE	Unspecified Tanks	1915 - 1923	707244
T	409m NE	Unspecified Tanks	1955	775769
T	410m NE	Refuse Heap	1915	748849
T	411m NE	Unspecified Tanks	1932 - 1938	785769
T	412m N	Unspecified Heap	1932 - 1938	790974
T	412m NE	Unspecified Tanks	1923	781954
T	413m N	Refuse Heap	1923	748308
T	413m N	Refuse Heap	1907	764219
Y	417m E	Tunnel	1891	756793
Y	417m E	Tunnel	1938 - 1981	771246
Y	420m E	Tunnels	1915	704235
Y	420m E	Tunnel	1907	747946
Y	420m E	Tunnel	1923	753889
Y	420m E	Tunnel	1932	784758
T	424m NE	Unspecified Tank	1938	738961
Z	424m NE	Mill Ponds	1848	706129
T	425m NE	Unspecified Tank	1907 - 1923	746978
T	433m NE	Unspecified Pit	1891	675496
21	435m SW	Coal Pit	1850	679269
22	435m SE	Unspecified Tank	1907 - 1923	787967



ID	Location	Land use	Dates present	Group ID
T	439m NE	Filter Bed	1915 - 1923	786712
23	443m SW	Filter Bed	1927 - 1955	731765
24	444m N	Unspecified Ground Workings	1850	709346
Z	450m NE	Bleach Works	1938 - 1955	759708
25	454m E	Refuse Heap	1965	656546
Z	455m NE	Bleaching Works	1932	665803
AA	458m NE	Unspecified Tank	1932 - 1955	787127
AA	459m NE	Unspecified Tank	1915	735666
AA	461m NE	Unspecified Tank	1923	754146
T	461m N	Unspecified Ground Workings	1938	660851
T	463m N	Unspecified Heap	1907 - 1923	759423
Z	464m NE	Water Bleach Works	1923	746919
Z	464m NE	Water Bleach Works	1907 - 1915	797848
26	464m NE	Unspecified Works	1965	683017
Z	470m NE	Unspecified Works	1965	683114
Z	470m NE	Bleach Works	1891	762109
AB	473m E	Unspecified Ground Workings	1907 - 1915	719809
AB	473m E	Unspecified Ground Workings	1923	763027
AC	476m NE	Unspecified Mill	1932	749792
AC	477m NE	Unspecified Mill	1955	720688
T	478m N	Unspecified Heap	1955	731200
AC	479m NE	Unspecified Mill	1915	775806
AC	482m NE	Unspecified Mill	1965	804370
27	486m NE	Police Station	1965 - 1974	745877
AD	489m N	Cuttings	1908 - 1927	788831
AE	490m N	Refuse Heap	1988 - 1991	768380
AE	493m N	Refuse Heap	1977	764248
28	494m N	Unspecified Ground Workings	1977 - 1991	759957



ID	Location	Land use	Dates present	Group ID
29	495m E	Goods Yard	1955	791233
30	495m NW	Refuse Heap	1927 - 1938	757902
AD	496m N	Unspecified Ground Workings	1938	660848
AC	498m NE	Unspecified Mill	1923	736863
AC	499m NE	Unspecified Mill	1938	786382

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	45
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
H	133m W	Tanks	1955 - 1970	107714
H	156m W	Unspecified Tank	1970	97544
H	156m W	Unspecified Tank	1992	102079
H	158m W	Unspecified Tank	1987	107986
H	164m W	Unspecified Tank	1970	103060
H	165m W	Unspecified Tank	1992	102365
H	166m W	Unspecified Tank	1987	101790
H	182m W	Unspecified Tank	1956	85671
9	198m E	Unspecified Tank	1987 - 1992	105483
H	222m W	Unspecified Tank	1956	85670
12	232m E	Unspecified Tank	1932	90827
P	263m NW	Unspecified Tank	1955	107278
P	264m NW	Unspecified Tank	1956	100054



ID	Location	Land use	Dates present	Group ID
M	265m NW	Unspecified Tank	1893	85672
C	274m N	Unspecified Tank	1955 - 1992	100449
C	294m N	Unspecified Tank	1955 - 1971	105713
C	307m N	Unspecified Tank	1987 - 1992	104041
C	309m N	Unspecified Tank	1956	106903
C	309m N	Unspecified Tank	1955	94190
C	309m N	Unspecified Tank	1971	103010
R	329m NW	Unspecified Tank	1955 - 1967	106689
C	329m N	Unspecified Tank	1937	85171
R	336m NW	Unspecified Tank	1955 - 1967	104350
T	356m NE	Unspecified Tank	1955 - 1956	104966
T	367m NE	Unspecified Tank	1932	85166
O	374m N	Unspecified Tank	1956	92799
O	374m N	Unspecified Tank	1955	102324
O	374m N	Unspecified Tank	1975	108153
O	381m N	Unspecified Tank	1956	104520
O	381m N	Unspecified Tank	1955	107305
T	381m NE	Tanks	1955 - 1992	94472
T	388m NE	Unspecified Tank	1955 - 1992	102099
T	392m NE	Settling Tank	1932	82932
T	401m NE	Tanks	1909 - 1922	97927
T	403m NE	Tanks	1932	92879
T	408m NE	Unspecified Tank	1955 - 1956	104547
X	412m NW	Tanks	1929 - 1937	102021
X	413m NW	Tanks	1956	93230
X	415m NW	Tanks	1955	99660
T	425m NE	Unspecified Tank	1932	98053
T	425m NE	Gasometer	1909 - 1922	102941



ID	Location	Land use	Dates present	Group ID
T	425m NE	Unspecified Tank	1893	103792
X	429m NW	Tanks	1955 - 1956	97282
AA	457m NE	Unspecified Tank	1909 - 1932	103073
AA	459m NE	Unspecified Tank	1955 - 1992	106158

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	21
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
5	78m SW	Electricity Substation	1987 - 1990	58961
L	185m NE	Electricity Substation	1987 - 1992	63212
L	189m NE	Electricity Substation	1955 - 1971	55440
11	226m NE	Electricity Substation	1987	47365
P	235m NW	Electricity Substation	1967 - 1992	63099
P	252m NW	Electricity Substation	1955 - 1956	52859
S	279m S	Electricity Substation	1955	51313
S	279m S	Electricity Substation	1967	53807
13	279m E	Electricity Substation	1987	48800
S	279m S	Electricity Substation	1970	53035
S	280m S	Electricity Substation	1956	59740
S	283m S	Electricity Substation	1987 - 1990	55841
16	335m S	Electricity Substation	1987 - 1990	59657
19	366m E	Electricity Substation	1992	47372



ID	Location	Land use	Dates present	Group ID
T	372m NE	Electricity Substation	1955 - 1956	63468
20	378m SE	Electricity Substation	1968 - 1992	62423
W	385m SE	Electricity Substation	1992	57153
W	386m SE	Electricity Substation	1970	57322
W	387m SE	Electricity Substation	1978 - 1989	59802
W	387m SE	Electricity Substation	1968	61410
T	425m NE	Gasometer	1909 - 1922	54133

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	5
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
Q	235m NE	Garage	1955 - 1956	17392
Q	235m NE	Garage	1975	22069
Q	235m NE	Garage	1992	16678
P	278m NW	Garage	1992	20063



ID	Location	Land use	Dates present	Group ID
P	279m NW	Garage	1984	21276

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

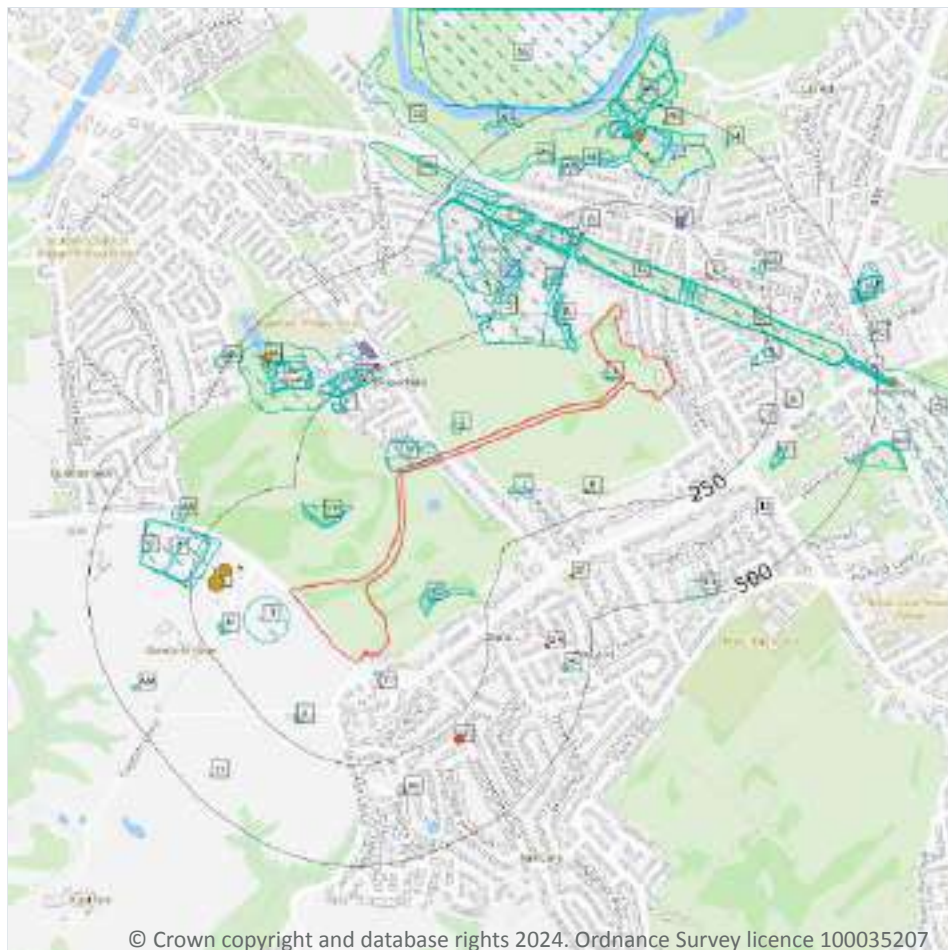
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

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



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

2.1 Historical industrial land uses

Records within 500m

237

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 26](#) >

ID	Location	Land Use	Date	Group ID
A	On site	Nursery	1955	731215
A	On site	Nursery	1938	794851
A	On site	Nursery	1927	794851



ID	Location	Land Use	Date	Group ID
1	9m NE	Refuse Heap	1965	656023
2	33m N	Unspecified Pit	1850	675068
3	34m SW	Sand Pit	1891	674054
B	43m NE	Unspecified Ground Workings	1955	792667
B	47m NE	Unspecified Ground Workings	1932	800983
B	47m NE	Unspecified Ground Workings	1938	800983
C	51m NE	Unspecified Works	1988	740883
C	52m NE	Unspecified Works	1991	740883
D	53m NE	Cuttings	1891	770260
D	56m NE	Cuttings	1923	757564
D	56m NE	Cuttings	1915	757564
D	56m NE	Cuttings	1907	757564
E	57m NE	Cuttings	1932	707844
E	57m NE	Cuttings	1938	707844
D	59m NE	Cuttings	1991	750261
D	59m NE	Cuttings	1977	750261
D	59m NE	Cuttings	1965	750261
D	59m NE	Cuttings	1988	750261
D	59m NE	Cuttings	1955	750261
G	91m S	Unspecified Heap	1977	688301
G	97m S	Refuse Heap	1938	725958
G	97m S	Refuse Heap	1927	725958
G	99m S	Unspecified Ground Workings	1965	661463
H	116m W	Unspecified Pit	1977	708961
H	116m W	Unspecified Pit	1965	708961
C	116m NE	Unspecified Works	1977	773724
I	123m NE	Unspecified Ground Workings	1955	772318
J	125m E	Unspecified Ground Workings	1977	765385



ID	Location	Land Use	Date	Group ID
J	125m E	Unspecified Ground Workings	1965	765385
H	129m W	Unspecified Ground Workings	1938	767000
H	129m W	Unspecified Ground Workings	1927	767000
I	134m NE	Sand Pit	1848	674066
I	143m NE	Refuse Heap	1908	655451
L	143m NE	Cuttings	1891	752614
L	145m NE	Cuttings	1923	760870
L	145m NE	Cuttings	1915	760870
L	145m NE	Cuttings	1907	752614
L	148m NE	Cuttings	1981	712213
L	148m NE	Cuttings	1974	712213
L	148m NE	Cuttings	1965	712213
L	148m NE	Cuttings	1955	712213
I	150m NE	Unspecified Ground Workings	1932	716641
I	151m NE	Unspecified Ground Workings	1938	716641
K	157m W	Unspecified Tanks	1991	737103
K	157m W	Unspecified Tanks	1977	737103
K	157m W	Unspecified Tanks	1988	737103
M	164m NE	Cuttings	1891	787261
M	171m NE	Cuttings	1965	741684
M	171m NE	Cuttings	1955	741684
M	176m NE	Cuttings	1923	707844
M	176m NE	Cuttings	1915	782202
M	176m NE	Cuttings	1907	794841
N	181m SW	Refuse Heap	1955	734931
M	182m N	Cuttings	1991	752477
M	182m N	Cuttings	1988	752477
4	182m SW	Sand Pit	1850	674055



ID	Location	Land Use	Date	Group ID
M	183m N	Cuttings	1977	752477
O	190m NE	Unspecified Pit	1891	675416
N	190m SW	Refuse Heap	1938	741525
N	190m SW	Refuse Heap	1927	741525
P	190m NW	Refuse Heap	1955	773363
Q	191m NE	Unspecified Heap	1981	782186
Q	191m NE	Unspecified Heap	1974	782186
Q	191m NE	Unspecified Heap	1965	782186
P	192m NW	Unspecified Heap	1965	688268
P	198m NW	Refuse Heap	1938	724123
P	198m NW	Refuse Heap	1927	724123
S	201m N	Unspecified Pit	1891	675417
S	207m W	Disused Workings	1991	725670
S	207m W	Disused Workings	1988	725670
C	213m N	Unspecified Works	1938	797443
C	213m N	Unspecified Works	1927	797443
C	213m N	Unspecified Works	1908	797443
C	213m N	Unspecified Works	1965	790921
M	215m N	Cuttings	1938	707844
M	215m N	Cuttings	1927	707844
M	215m N	Cuttings	1908	756545
T	215m N	Cuttings	1891	716154
C	219m N	Unspecified Works	1955	790921
C	222m N	Unspecified Works	1891	779197
U	223m NW	Unspecified Commercial/Industrial	1908	670378
U	223m NW	Leather Works	1891	666109
U	224m NW	Unspecified Works	1955	743853
U	226m NW	Unspecified Mills	1977	758251



ID	Location	Land Use	Date	Group ID
U	227m NW	Unspecified Mills	1991	755122
U	227m NW	Unspecified Mills	1988	755122
U	227m NW	Unspecified Works	1938	717600
U	227m NW	Unspecified Works	1927	717600
C	229m N	Bleach Works	1850	684858
U	229m NW	Foundry	1850	668534
S	229m W	Unspecified Pit	1977	788176
S	229m W	Unspecified Pit	1965	788176
S	230m W	Refuse Heap	1955	733709
U	233m NW	Unspecified Mill	1965	673304
S	238m W	Refuse Heap	1938	733709
W	245m NW	Unspecified Mills	1938	755347
W	245m NW	Unspecified Mills	1927	755347
U	275m NW	Cotton Mill	1850	654607
T	285m N	Cuttings	1955	776584
W	289m NW	Unspecified Mills	1955	725268
U	291m NW	Tanks	1850	674497
T	292m N	Cuttings	1938	767357
T	292m N	Cuttings	1927	767357
T	292m N	Cuttings	1908	767357
W	294m NW	Unspecified Mill	1965	783043
W	295m NW	Unspecified Mills	1908	775957
W	295m NW	Unspecified Mills	1891	775957
Y	295m NE	Bleach and Dye works	1938	711609
Y	295m NE	Bleach Works	1907	724612
Y	295m NE	Bleach and Dye works	1915	765307
Y	295m NE	Bleach and Dye works	1923	765307
T	296m N	Cuttings	1991	717881



ID	Location	Land Use	Date	Group ID
T	296m N	Cuttings	1977	738843
T	296m N	Cuttings	1965	720706
T	296m N	Cuttings	1988	717881
Z	300m E	Unspecified Heap	1938	741077
Z	301m E	Unspecified Heap	1932	741077
AA	303m NE	Sand Pit	1923	772599
Z	304m E	Unspecified Ground Workings	1955	661265
W	305m NW	Unspecified Mill	1991	720201
W	305m NW	Unspecified Mill	1977	720201
W	305m NW	Unspecified Mill	1988	720201
AB	312m W	Dairy	1977	716950
AB	312m W	Dairy	1965	716950
Y	315m NE	Bleach Works	1891	724612
AA	320m NE	Sand Pit	1915	772599
C	333m N	Unspecified Tank	1977	737821
C	333m N	Unspecified Tank	1965	737821
W	334m NW	Bleach Works	1850	684857
AD	335m N	Unspecified Depot	1991	781853
AD	335m N	Unspecified Depot	1988	781853
AE	336m NE	Unspecified Ground Workings	1932	707304
AE	336m NE	Unspecified Ground Workings	1938	707304
Y	353m NE	Unspecified Works	1965	683115
AE	354m NE	Unspecified Heap	1991	746265
AE	354m NE	Unspecified Heap	1977	746265
AE	354m NE	Unspecified Heap	1965	746265
AE	354m NE	Unspecified Heap	1988	746265
Y	363m NE	Chemical Works	1955	682470
Y	365m NE	Bleach and Dye works	1932	740604



ID	Location	Land Use	Date	Group ID
9	366m W	Sand Pit	1850	674198
T	375m N	Unspecified Ground Workings	1938	760120
T	375m N	Unspecified Ground Workings	1927	760120
AG	378m N	Unspecified Ground Workings	1938	707304
AG	378m N	Unspecified Ground Workings	1927	707304
Y	381m NE	Unspecified Tank	1923	697270
T	386m N	Unspecified Ground Workings	1955	796339
Y	389m NE	Unspecified Tank	1923	697269
Y	390m NE	Unspecified Tank	1907	697528
Y	397m NE	Unspecified Tank	1923	697268
T	399m N	Cuttings	1991	753988
T	399m N	Cuttings	1977	753988
T	399m N	Cuttings	1965	753988
T	399m N	Cuttings	1988	753988
Y	404m NE	Unspecified Tanks	1915	707244
Y	406m NE	Unspecified Tanks	1923	707244
Y	409m NE	Unspecified Tanks	1955	775769
Y	410m NE	Refuse Heap	1915	748849
Y	411m NE	Unspecified Tanks	1932	785769
Y	411m NE	Unspecified Tanks	1938	785769
Y	412m N	Unspecified Heap	1932	790974
Y	412m N	Unspecified Heap	1938	790974
Y	412m NE	Unspecified Tanks	1923	781954
Y	413m N	Refuse Heap	1907	764219
Y	413m N	Refuse Heap	1923	748308
AJ	417m E	Tunnel	1891	756793
AJ	417m E	Tunnel	1981	771246
AJ	417m E	Tunnel	1974	771246



ID	Location	Land Use	Date	Group ID
AJ	417m E	Tunnel	1965	771246
AJ	417m E	Tunnel	1955	771246
AJ	420m E	Tunnel	1923	753889
AJ	420m E	Tunnels	1915	704235
AJ	420m E	Tunnel	1907	747946
AJ	420m E	Tunnel	1932	784758
AJ	421m E	Tunnel	1938	771246
Y	424m NE	Unspecified Tank	1938	738961
AK	424m NE	Mill Ponds	1848	706129
Y	425m NE	Unspecified Tank	1915	746978
Y	425m NE	Unspecified Tank	1907	746978
Y	425m NE	Unspecified Tank	1923	746978
Y	433m NE	Unspecified Pit	1891	675496
11	435m SW	Coal Pit	1850	679269
AL	435m SE	Unspecified Tank	1915	787967
AL	435m SE	Unspecified Tank	1907	787967
AL	435m SE	Unspecified Tank	1923	787967
Y	439m NE	Filter Bed	1915	786712
Y	439m NE	Filter Bed	1923	786712
AM	443m SW	Filter Bed	1955	731765
12	444m N	Unspecified Ground Workings	1850	709346
AM	449m SW	Filter Bed	1938	731765
AM	449m SW	Filter Bed	1927	731765
AK	450m NE	Bleach Works	1938	759708
AK	451m NE	Bleach Works	1955	759708
13	454m E	Refuse Heap	1965	656546
AK	455m NE	Bleaching Works	1932	665803
AN	458m NE	Unspecified Tank	1955	787127



ID	Location	Land Use	Date	Group ID
AN	458m NE	Unspecified Tank	1932	787127
AN	458m NE	Unspecified Tank	1938	787127
AN	459m NE	Unspecified Tank	1915	735666
AN	461m NE	Unspecified Tank	1923	754146
Y	461m N	Unspecified Ground Workings	1938	660851
Y	463m N	Unspecified Heap	1915	759423
Y	463m N	Unspecified Heap	1907	759423
Y	463m N	Unspecified Heap	1923	759423
AK	464m NE	Water Bleach Works	1915	797848
AK	464m NE	Water Bleach Works	1907	797848
AK	464m NE	Water Bleach Works	1923	746919
14	464m NE	Unspecified Works	1965	683017
AK	470m NE	Unspecified Works	1965	683114
AK	470m NE	Bleach Works	1891	762109
AO	473m E	Unspecified Ground Workings	1915	719809
AO	473m E	Unspecified Ground Workings	1907	719809
AO	473m E	Unspecified Ground Workings	1923	763027
AP	476m NE	Unspecified Mill	1932	749792
AP	477m NE	Unspecified Mill	1955	720688
Y	478m N	Unspecified Heap	1955	731200
AP	479m NE	Unspecified Mill	1915	775806
AP	482m NE	Unspecified Mill	1965	804370
AQ	486m NE	Police Station	1974	745877
AQ	486m NE	Police Station	1965	745877
AR	489m N	Cuttings	1927	788831
AR	489m N	Cuttings	1908	788831
AS	490m N	Refuse Heap	1991	768380
AS	490m N	Refuse Heap	1988	768380



ID	Location	Land Use	Date	Group ID
AS	493m N	Refuse Heap	1977	764248
AT	494m N	Unspecified Ground Workings	1991	759957
AT	494m N	Unspecified Ground Workings	1977	759957
AT	494m N	Unspecified Ground Workings	1988	759957
15	495m E	Goods Yard	1955	791233
AU	495m NW	Refuse Heap	1938	757902
AU	495m NW	Refuse Heap	1927	757902
AR	496m N	Unspecified Ground Workings	1938	660848
AP	498m NE	Unspecified Mill	1923	736863
AP	499m NE	Unspecified Mill	1938	786382

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	78
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 26 >](#)

ID	Location	Land Use	Date	Group ID
K	133m W	Tanks	1955	107714
K	133m W	Tanks	1961	107714
K	133m W	Tanks	1956	107714
K	133m W	Tanks	1970	107714
K	156m W	Unspecified Tank	1970	97544
K	156m W	Unspecified Tank	1992	102079
K	158m W	Unspecified Tank	1987	107986
K	164m W	Unspecified Tank	1970	103060
K	165m W	Unspecified Tank	1992	102365
K	166m W	Unspecified Tank	1987	101790



ID	Location	Land Use	Date	Group ID
K	182m W	Unspecified Tank	1956	85671
R	198m E	Unspecified Tank	1987	105483
R	198m E	Unspecified Tank	1989	105483
R	199m E	Unspecified Tank	1992	105483
K	222m W	Unspecified Tank	1956	85670
7	232m E	Unspecified Tank	1932	90827
U	263m NW	Unspecified Tank	1955	107278
U	264m NW	Unspecified Tank	1956	100054
P	265m NW	Unspecified Tank	1893	85672
C	274m N	Unspecified Tank	1956	100449
C	274m N	Unspecified Tank	1987	100449
C	274m N	Unspecified Tank	1992	100449
C	274m N	Unspecified Tank	1955	100449
C	274m N	Unspecified Tank	1971	100449
C	294m N	Unspecified Tank	1956	105713
C	294m N	Unspecified Tank	1955	105713
C	294m N	Unspecified Tank	1971	105713
C	307m N	Unspecified Tank	1992	104041
C	308m N	Unspecified Tank	1987	104041
C	309m N	Unspecified Tank	1956	106903
C	309m N	Unspecified Tank	1955	94190
C	309m N	Unspecified Tank	1971	103010
W	329m NW	Unspecified Tank	1967	106689
W	329m NW	Unspecified Tank	1955	106689
C	329m N	Unspecified Tank	1937	85171
W	330m NW	Unspecified Tank	1956	106689
W	336m NW	Unspecified Tank	1967	104350
W	336m NW	Unspecified Tank	1955	104350



ID	Location	Land Use	Date	Group ID
W	336m NW	Unspecified Tank	1956	104350
Y	356m NE	Unspecified Tank	1955	104966
Y	357m NE	Unspecified Tank	1956	104966
Y	367m NE	Unspecified Tank	1932	85166
T	374m N	Unspecified Tank	1956	92799
T	374m N	Unspecified Tank	1975	108153
T	374m N	Unspecified Tank	1955	102324
T	381m N	Unspecified Tank	1956	104520
T	381m N	Unspecified Tank	1955	107305
Y	381m NE	Tanks	1975	94472
Y	381m NE	Tanks	1955	94472
Y	383m NE	Tanks	1992	94472
Y	383m NE	Tanks	1956	94472
Y	388m NE	Unspecified Tank	1975	102099
Y	388m NE	Unspecified Tank	1955	102099
Y	388m NE	Unspecified Tank	1992	102099
Y	389m NE	Unspecified Tank	1956	102099
Y	392m NE	Settling Tank	1932	82932
Y	401m NE	Tanks	1909	97927
Y	401m NE	Tanks	1922	97927
Y	403m NE	Tanks	1932	92879
Y	408m NE	Unspecified Tank	1956	104547
Y	408m NE	Unspecified Tank	1955	104547
AI	412m NW	Tanks	1929	102021
AI	412m NW	Tanks	1937	102021
AI	413m NW	Tanks	1956	93230
AI	415m NW	Tanks	1955	99660
Y	425m NE	Unspecified Tank	1893	103792



ID	Location	Land Use	Date	Group ID
Y	425m NE	Gasometer	1909	102941
Y	425m NE	Gasometer	1922	102941
Y	425m NE	Unspecified Tank	1932	98053
AI	429m NW	Tanks	1956	97282
AI	430m NW	Tanks	1955	97282
AN	457m NE	Unspecified Tank	1909	103073
AN	457m NE	Unspecified Tank	1922	103073
AN	457m NE	Unspecified Tank	1932	103073
AN	459m NE	Unspecified Tank	1975	106158
AN	459m NE	Unspecified Tank	1955	106158
AN	460m NE	Unspecified Tank	1992	106158
AN	460m NE	Unspecified Tank	1956	106158

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

39

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 26 >](#)

ID	Location	Land Use	Date	Group ID
F	78m SW	Electricity Substation	1987	58961
F	78m SW	Electricity Substation	1990	58961
O	185m NE	Electricity Substation	1992	63212
O	187m NE	Electricity Substation	1987	63212
O	189m NE	Electricity Substation	1955	55440
O	189m NE	Electricity Substation	1971	55440
O	189m NE	Electricity Substation	1956	55440
6	226m NE	Electricity Substation	1987	47365



ID	Location	Land Use	Date	Group ID
U	235m NW	Electricity Substation	1992	63099
U	236m NW	Electricity Substation	1967	63099
U	237m NW	Electricity Substation	1984	63099
U	237m NW	Electricity Substation	1984	63099
U	252m NW	Electricity Substation	1955	52859
U	253m NW	Electricity Substation	1956	52859
X	279m S	Electricity Substation	1955	51313
X	279m S	Electricity Substation	1967	53807
8	279m E	Electricity Substation	1987	48800
X	279m S	Electricity Substation	1970	53035
X	280m S	Electricity Substation	1956	59740
X	283m S	Electricity Substation	1987	55841
X	283m S	Electricity Substation	1990	55841
AC	335m S	Electricity Substation	1987	59657
AC	335m S	Electricity Substation	1990	59657
10	366m E	Electricity Substation	1992	47372
Y	372m NE	Electricity Substation	1955	63468
Y	373m NE	Electricity Substation	1956	63468
AF	378m SE	Electricity Substation	1987	62423
AF	379m SE	Electricity Substation	1989	62423
AF	380m SE	Electricity Substation	1992	62423
AF	380m SE	Electricity Substation	1970	62423
AF	381m SE	Electricity Substation	1968	62423
AH	385m SE	Electricity Substation	1992	57153
AH	386m SE	Electricity Substation	1970	57322
AH	387m SE	Electricity Substation	1989	59802
AH	387m SE	Electricity Substation	1968	61410
AH	388m SE	Electricity Substation	1978	59802



ID	Location	Land Use	Date	Group ID
AH	388m SE	Electricity Substation	1987	59802
Y	425m NE	Gasometer	1909	54133
Y	425m NE	Gasometer	1922	54133

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

7

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 26 >](#)

ID	Location	Land Use	Date	Group ID
V	235m NE	Garage	1975	22069
V	235m NE	Garage	1955	17392
V	235m NE	Garage	1992	16678
V	236m NE	Garage	1956	17392
U	278m NW	Garage	1992	20063
U	279m NW	Garage	1984	21276
U	279m NW	Garage	1984	21276

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m					1
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Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on [page 41 >](#)

ID	Location	Site address	Source	Data type
6	495m N	Refuse Tip	1974 mapping	Polygon

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m					4
---------------------	--	--	--	--	---

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on [page 41 >](#)

ID	Location	Details		
A	142m W	Site Address: Stand Golf Course, Ringley Road, Stand, Radcliffe, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: C064, C64c Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded: - Last Recorded: -
A	183m W	Site Address: Stand Golf Course, Ringley Road, Stand, Radcliffe, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: C64b, C064 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded: - Last Recorded: -
3	300m NE	Site Address: Theodore St. Justs, Radcliffe New Road, Lilly Hill, Radcliffe, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: C076 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded: - Last Recorded: -

ID	Location	Details		
5	397m W	Site Address: Stand Golf Course, Hawthorne Avenue, Stand, Radcliffe, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: C64a, C064 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	3
----------------------------	----------

Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on [page 41 >](#)

ID	Location	Address	Further Details	Date
B	197m N	Site Address: N/A	Type of Site: Incinerator Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1956
B	197m N	Site Address: N/A	Type of Site: Incinerator Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1955
4	343m N	Site Address: Land R/o 115 Radcliffe New Rd, Land R, Whitefield, MANCHESTER, Greater Manchester, M25 7WG	Type of Site: Waste Transfer Station Planning application reference: 28662/93 Description: An application (ref: 28662/93) for Detailed Planning permission was submitted to Bury M.B.C. on 11th June 1993. Data source: Historic Planning Application Data Type: Point	-

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.



3.6 Licensed waste sites

Records within 500m

2

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 41 >](#)

ID	Location	Details		
D	407m NW	Site Name: Progress Motors Ltd Site Address: Barlow Mill Transfer Station, Stand Lane, Radcliffe, Manchester, M26 1JT Correspondence Address: 369, Ainsworth Road, Radcliffe, Manchester, M26 4HF	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PML002 EPR reference: - Operator: Progress Motors Ltd Waste Management licence No: 53833 Annual Tonnage: 5200	Issue Date: 30/09/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	407m NW	Site Name: A W R Rent A Skip Ltd Site Address: Units 3 & 4 Barlows Mill, Off Stand Lane, Radcliffe, Manchester, Manchester, M26 1JT Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 652677 EPR reference: EA/EPR/WP3596CC Operator: A W R Rent A Skip Limited Waste Management licence No: 53833 Annual Tonnage: 24999	Issue Date: 30/09/1992 Effective Date: 30/09/1992 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

10

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 41 >](#)



ID	Location	Site	Reference	Category	Sub-Category	Description
C	216m N	Polyflor Ltd Radcliffe New Road Whitefield M45 7ng	EPR/WE5940V S/A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
C	216m N	Polyflor Ltd Radcliffe New Road Whitefield M45 7ng	EPR/WE5940V S/A001	Using waste exemption	Non-agricultural waste only	Use of waste to manufacture finished goods
C	231m N	Polyflor Limited Po Box 3 Leicester Road Whitefield M45 7ng	EPR/KF0109M P/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in secure containers
1	248m N	Polyflor Ltd Leicester Road Whitefield M45 7ng	EPR/VF0405LK /A001	Treating waste exemption	Non-agricultural waste only	Crushing waste fluorescent tubes
2	285m W	-	WEX390213	Storing waste exemption	On a farm	Storage of sludge
E	480m W	Outwood Gate Farm, Ringley Road West, Radcliffe, Manchester, M26 1dl	WEX298064	Using waste exemption	On a farm	Use of waste in construction
E	480m W	Outwood Gate Farm, Ringley Road West, Radcliffe, Manchester, M26 1dl	WEX298064	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
E	480m W	Outwood Gate Farm, Ringley Road West, Radcliffe, Manchester, M26 1dl	WEX298064	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	480m W	Outwood Gate Farm, Ringley Road West, Radcliffe, Manchester, M26 1dl	WEX298064	Using waste exemption	On a farm	Use of mulch
E	480m W	Outwood Gate Farm, Ringley Road West, Radcliffe, Manchester, M26 1dl	WEX298064	Disposing of waste exemption	On a farm	Burning waste in the open

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- ⬠ Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

13

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 46](#) >

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Greater Manchester, M45	Electrical Features	Infrastructure and Facilities
2	On site	Mast (Telecommunication)	Greater Manchester, M45	Telecommunications Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
3	80m SW	Electricity Sub Station	Greater Manchester, M45	Electrical Features	Infrastructure and Facilities
A	135m NE	Electricity Sub Stations	Greater Manchester, M45	Electrical Features	Infrastructure and Facilities
A	156m NE	Chimney	Greater Manchester, M45	Chimneys	Industrial Features
B	172m W	Tank	Greater Manchester, M45	Tanks (Generic)	Industrial Features
B	184m W	Tank	Greater Manchester, M45	Tanks (Generic)	Industrial Features
5	193m NE	Electricity Sub Station	Greater Manchester, M45	Electrical Features	Infrastructure and Facilities
C	199m NE	Cavalio Flooring	Radcliffe New Road, Whitefield, Manchester, Greater Manchester, M45 7NR	Construction Completion Services	Construction Services
6	201m E	Tank	Greater Manchester, M45	Tanks (Generic)	Industrial Features
9	231m NE	Electricity Sub Station	Greater Manchester, M45	Electrical Features	Infrastructure and Facilities
B	233m W	Mast	Greater Manchester, M45	Telecommunications Features	Infrastructure and Facilities
10	239m NW	Electricity Sub Station	Greater Manchester, M26	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1
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Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 46](#) >

ID	Location	Company	Address	LPG	Status
D	284m NW	Q8	252, Stand Road, Radcliffe, Manchester, Greater Manchester, M26 1JP	Not Applicable	Obsolete

This data is sourced from Experian.



4.3 Electricity cables

Records within 500m**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m**0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.



4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

2

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 46 >](#)

ID	Location	Details	
4	151m E	Operator: URBAN RESERVE (ASSETCO) LIMITED Installation Name: Bryn Power Process: NEW MEDIUM COMBUSTION PLANT Permit Number: SP3302SL Original Permit Number: SP3302SL	EPR Reference: EPR/SP3302SL Issue Date: 18/03/2021 Effective Date: 18/03/2021 Last date noted as effective: 06/08/2024 Status: Effective
11	322m N	Operator: Polyflor Limited Installation Name: Polyflor Limited Process: MCP Permit Number: MP3222SY Original Permit Number: MP3222SY	EPR Reference: EPR/MP3222SY Issue Date: 02/05/2024 Effective Date: 02/05/2024 Last date noted as effective: 06/08/2024 Status: Effective

This data is sourced from the Environment Agency and Natural Resources Wales.



4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	3
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Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 46](#) >

ID	Location	Address	Details	
7	218m N	Polyflor, Radcliffe New Road, Whitefield, M45 7NR	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	243m NE	Johnsons Cleaners, 163a Radcliffe New Road, Whitefield, M45 7RG	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
D	294m NW	Strand Motor Co, Stand Lane	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m	0
---------------------	---

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m**0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m**0**

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m**0**

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m**6**

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on [page 46](#) >

ID	Location	Details	
8	226m N	Incident Date: 22/02/2002 Incident Identification: 59999 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	284m NW	Incident Date: 25/04/2001 Incident Identification: 3393 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
D	284m NW	Incident Date: 25/04/2001 Incident Identification: 3393 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	376m N	Incident Date: 10/07/2002 Incident Identification: 90559 Pollutant: Inert Materials and Wastes:Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Rocks and Gravel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	376m N	Incident Date: 10/07/2002 Incident Identification: 90559 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	376m N	Incident Date: 10/07/2002 Incident Identification: 90559 Pollutant: Inert Materials and Wastes Pollutant Description: Rocks and Gravel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

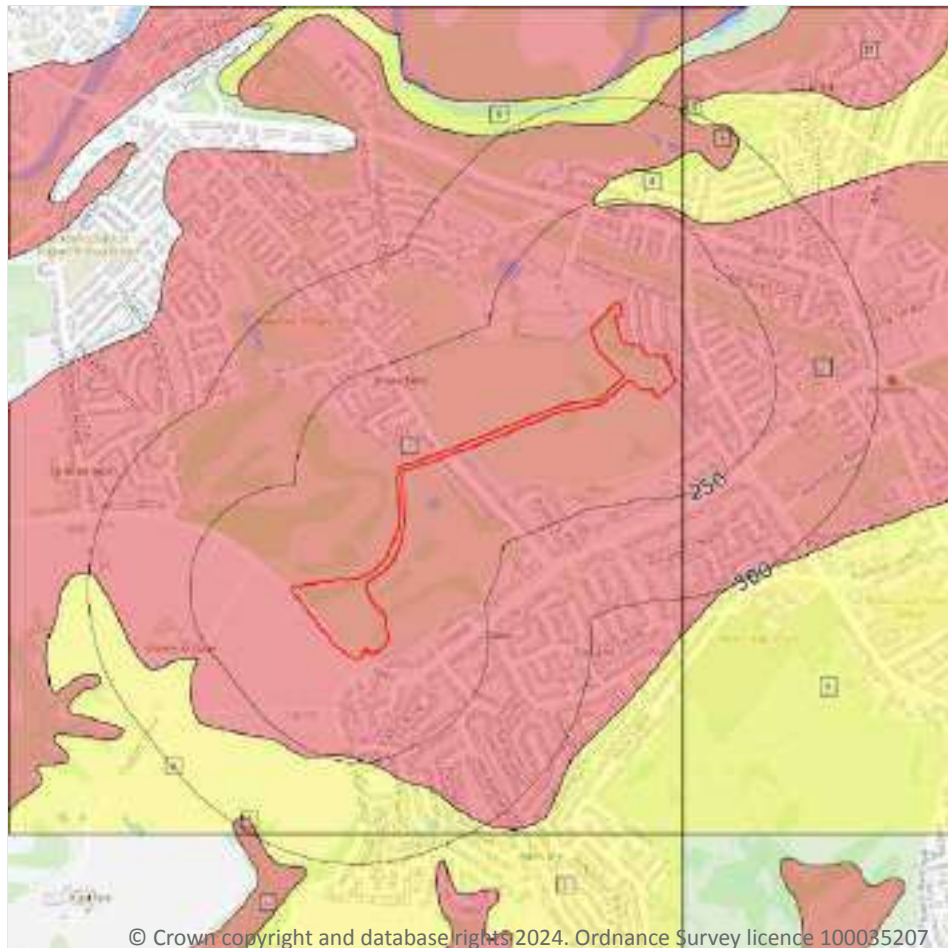
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

12

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 54 >](#)

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	19m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

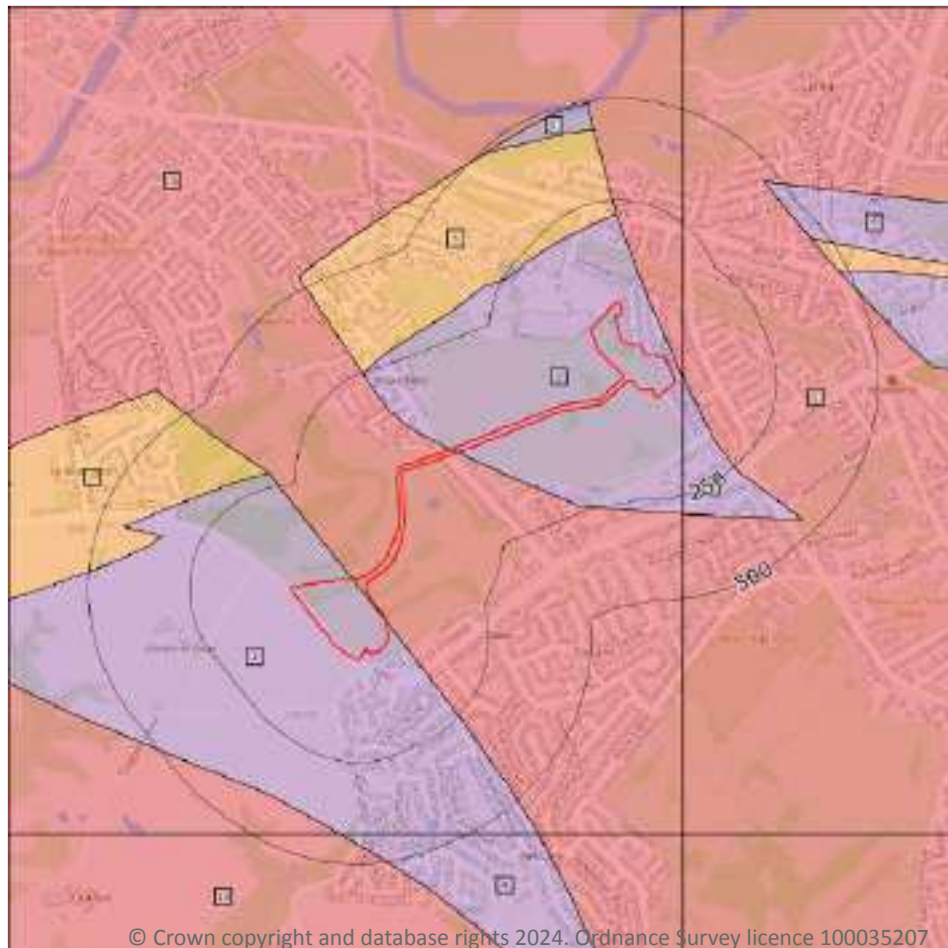


ID	Location	Designation	Description
3	236m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	237m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	269m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	393m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
7	426m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	437m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	473m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
10	488m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
11	493m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
12	500m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

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5.2 Bedrock aquifer

Records within 500m

12

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 56](#) >

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

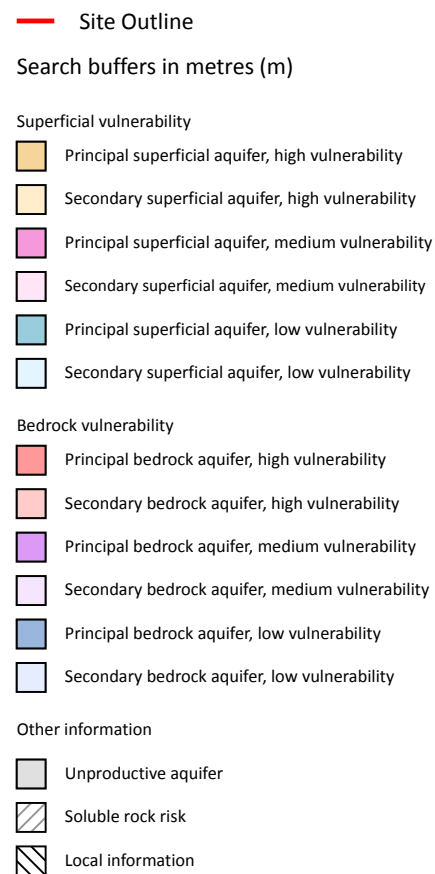


ID	Location	Designation	Description
3	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	19m NE	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
5	21m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	198m NE	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
7	287m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
8	426m N	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
9	426m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
10	429m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
A	463m NE	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
A	463m NE	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

8

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 58](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	19m NE	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
6	20m NE	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
7	21m NE	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	34m SW	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site	0
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This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

21

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 61](#) >

ID	Location	Details	
A	183m N	Status: Historical Licence No: 2569004030 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "WELLPOINT SYSTEM AT PREMISES, RADCLIFFE" Data Type: Point Name: JAMES HALSTEAD LTD Easting: 379600 Northing: 406300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/01/1995 Version End Date: -
A	183m N	Status: Historical Licence No: 2569004030 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: WELLPOINT SYSTEM AT PREMISES, RADCLIFFE Data Type: Point Name: POLYFLOR LTD Easting: 379600 Northing: 406300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
A	183m N	Status: Historical Licence No: 2569004030 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: WELL POINT SYSTEM AT PREMISES RADCLIFFE Data Type: Point Name: POLYFLOR LTD Easting: 379600 Northing: 406300	Annual Volume (m ³): 68200 Max Daily Volume (m ³): 382 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
B	189m E	Status: Historical Licence No: 2569004053 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "A BOREHOLE AT STAND GOLF CLUB, WHITEFIELD" Data Type: Point Name: STAND GOLF CLUB Easting: 379760 Northing: 405860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/05/1997 Expiry Date: - Issue No: 100 Version Start Date: 28/05/1997 Version End Date: -



ID	Location	Details	
B	189m E	Status: Historical Licence No: 2569004053 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT STAND GOLF CLUB, WHITEFIELD Data Type: Point Name: STAND GOLF CLUB Easting: 379760 Northing: 405860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/05/1997 Expiry Date: - Issue No: 100 Version Start Date: 28/05/1997 Version End Date: -
B	189m E	Status: Historical Licence No: 2569004053 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT STAND GOLF CLUB WHITEFIELD Data Type: Point Name: THE TRUSTEES OF STAND GOLF CLUB Easting: 379760 Northing: 405860	Annual Volume (m ³): 9000 Max Daily Volume (m ³): 55 Original Application No: - Original Start Date: 28/05/1997 Expiry Date: - Issue No: 101 Version Start Date: 07/09/2005 Version End Date: -
B	190m E	Status: Active Licence No: 2569004053 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT STAND GOLF CLUB Data Type: Point Name: Stand Golf Club Limited Easting: 379754 Northing: 405858	Annual Volume (m ³): 9000 Max Daily Volume (m ³): 55 Original Application No: NPS/WR/018926 Original Start Date: 28/05/1997 Expiry Date: - Issue No: 102 Version Start Date: 12/05/2015 Version End Date: -
C	535m NE	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS, BURY NEW ROAD, WHITEFIELD, BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -



ID	Location	Details	
C	535m NE	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS BURY NEW ROAD WHITEFIELD BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 17/02/2005 Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -
C	535m NE	Status: Historical Licence No: NW/069/0004/004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITEFIELD, MANCHESTER Data Type: Point Name: Total Fitness Health Clubs Limited Easting: 380450 Northing: 406381	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 29/01/2014 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 29/01/2014 Version End Date: -
D	846m SE	Status: Active Licence No: 2569004052 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITEFIELD GOLF CLUB, HIGHER LANE, WHITEFIELD Data Type: Point Name: WHITEFIELD GOLF CLUB LTD Easting: 380420 Northing: 405380	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 100 Original Application No: 7349 Original Start Date: 10/10/1996 Expiry Date: - Issue No: 101 Version Start Date: 09/11/2005 Version End Date: -
D	846m SE	Status: Historical Licence No: 2569004052 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE AT WHITEFIELD GOLF CLUB, HIGHER LANE, WHITEFIELD" Data Type: Point Name: WHITEFIELD GOLF CLUB Easting: 380420 Northing: 405380	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/10/1996 Expiry Date: - Issue No: 100 Version Start Date: 19/04/1999 Version End Date: -



ID	Location	Details	
-	937m E	Status: Active Licence No: 2569004042 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, STANLEY ROAD, WHITEFIELD Data Type: Point Name: DANISH CROWN UK LIMITED Easting: 380900 Northing: 406300	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 21 Original Application No: 2396B Original Start Date: 18/07/1973 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2008 Version End Date: -
-	937m E	Status: Historical Licence No: 2569004042 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, STANLEY ROAD, WHITEFIELD" Data Type: Point Name: DANISH BACON INDEPENDENT DBI LTD Easting: 380900 Northing: 406300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/07/1973 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1986 Version End Date: -
-	1659m NE	Status: Active Licence No: NW/069/0001/020 Details: Dewatering Direct Source: Ground Water - North West Region Point: BURY WASTEWATER TREATMENT WORKS Data Type: Poly4 Name: United Utilities Water Ltd Easting: 380289 Northing: 407968	Annual Volume (m ³): 769479 Max Daily Volume (m ³): 2109 Original Application No: NPS/WR/040221 Original Start Date: 01/05/2024 Expiry Date: 31/07/2025 Issue No: 1 Version Start Date: 01/05/2024 Version End Date: -
-	1659m NE	Status: Active Licence No: NW/069/0001/021 Details: Dewatering Direct Source: Ground Water - North West Region Point: BURY WASTEWATER TREATMENT WORKS Data Type: Poly4 Name: United Utilities Water Ltd Easting: 380289 Northing: 407968	Annual Volume (m ³): 769479 Max Daily Volume (m ³): 2109 Original Application No: NPS/WR/042279 Original Start Date: 01/05/2024 Expiry Date: 31/07/2025 Issue No: 1 Version Start Date: 01/05/2024 Version End Date: -
-	1763m NE	Status: Active Licence No: 2569002264R02 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: Bury Golf Club Limited Easting: 380963 Northing: 407673	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 50 Original Application No: NPS/WR/016967 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -



ID	Location	Details	
-	1763m NE	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380963 Northing: 407673	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1765m NE	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY" Data Type: Point Name: BURY GOLF CLUB Easting: 380970 Northing: 407670	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16-Apr-07 Issue No: 100 Version Start Date: 17/04/1997 Version End Date: -
-	1765m NE	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m ³): 9000 Max Daily Volume (m ³): 55 Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16/04/2007 Issue No: 101 Version Start Date: 27/01/2004 Version End Date: 16/04/2007
-	1765m NE	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.



5.7 Surface water abstractions

Records within 2000m

3

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 61](#) >

ID	Location	Details	
-	1629m E	Status: Historical Licence No: NW/069/0004/002 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: POINT "C" ON WHITFIELD BROOK Data Type: Point Name: Onsite Central Limited Easting: 381610 Northing: 406123	Annual Volume (m ³): 0.001 Max Daily Volume (m ³): 0.001 Original Application No: - Original Start Date: 01/11/2011 Expiry Date: 27/11/2011 Issue No: 1 Version Start Date: 01/11/2011 Version End Date: -
-	1815m N	Status: Historical Licence No: 2569004004 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE ATRADCLIFFE Data Type: Point Name: ST REGIS PAPER COMPANY U K LTD Easting: 378800 Northing: 407800	Annual Volume (m ³): 40004.8 Max Daily Volume (m ³): 109.104 Original Application No: - Original Start Date: 28/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 05/05/2001 Version End Date: -
-	1872m E	Status: Historical Licence No: NW/069/0004/002 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: POINT "B" ON WHITEFIELD BROOKE WHITEFIELD, MANCHESTER Data Type: Point Name: Onsite Central Limited Easting: 381829 Northing: 405811	Annual Volume (m ³): 0.001 Max Daily Volume (m ³): 0.001 Original Application No: - Original Start Date: 01/11/2011 Expiry Date: 27/11/2011 Issue No: 1 Version Start Date: 01/11/2011 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.



5.8 Potable abstractions

Records within 2000m

3

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 61](#) >

ID	Location	Details	
C	535m NE	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS, BURY NEW ROAD, WHITEFIELD, BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -
C	535m NE	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS BURY NEW ROAD WHITEFIELD BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 17/02/2005 Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -
C	535m NE	Status: Historical Licence No: NW/069/0004/004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITEFIELD, MANCHESTER Data Type: Point Name: Total Fitness Health Clubs Limited Easting: 380450 Northing: 406381	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 29/01/2014 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 29/01/2014 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.



5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

3

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.



Features are displayed on the Hydrology map on [page 70 >](#)

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1
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The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on [page 70 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Irwell (Roch to Croal)	GB112069060840	Croal Irwell	Irwell

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	1
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Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on [page 70 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
14	485m N	River	Irwell (Roch to Croal)	GB112069060840 ↗	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	2
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Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 70](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800 ↗	Poor	Poor	Good	2019
3	On site	Manchester and East Cheshire Permo-Triassic Sandstone Aquifers	GB41201G101100 ↗	Poor	Poor	Poor	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

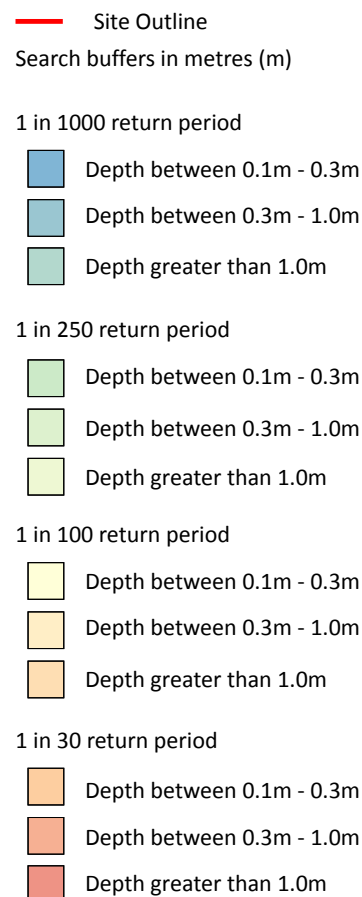
0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on [page 76 >](#)

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

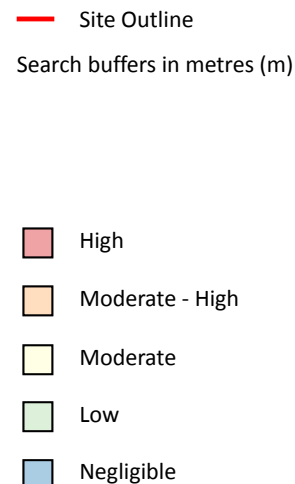
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

Moderate

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on [page 78 >](#)

This data is sourced from Ambienta Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- / Designated Ancient Woodland
- / Green Belt

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10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.6 Local Nature Reserves (LNR)

Records within 2000m

6

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on [page 79 >](#)

ID	Location	Name	Data source
3	332m NW	Chapelfield	Natural England
A	695m NW	Chapelfield	Natural England
A	769m NW	Chapelfield	Natural England
7	1216m S	Philip's Park	Natural England
B	1592m SE	Mere Clough	Natural England
-	1942m SW	Clifton Country Park	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

8

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on [page 79 >](#)

ID	Location	Name	Woodland Type
4	380m S	Carters Hill Wood	Ancient & Semi-Natural Woodland
5	513m SW	Nuttall Wood	Ancient & Semi-Natural Woodland
6	882m S	North Wood	Ancient & Semi-Natural Woodland
8	1333m SW	Lower Heaps Wood	Ancient & Semi-Natural Woodland
9	1354m S	Philips Wood	Ancient & Semi-Natural Woodland
B	1605m SE	Mere Clough	Ancient & Semi-Natural Woodland
-	1799m SW	Unknown	Ancient & Semi-Natural Woodland



ID	Location	Name	Woodland Type
-	1991m W	Ringley Wood	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0
-----------------------------	----------

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0
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These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0
-----------------------------	----------

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	6
-----------------------------	----------

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on [page 79 >](#)

ID	Location	Name	Local Authority name
1	On site	Merseyside and Greater Manchester	Bury
2	300m NE	Merseyside and Greater Manchester	Bury



ID	Location	Name	Local Authority name
10	1494m NE	Merseyside and Greater Manchester	Bury
11	1568m W	Merseyside and Greater Manchester	Bolton
-	1797m N	Merseyside and Greater Manchester	Bury
-	1927m SW	Merseyside and Greater Manchester	Salford

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0
-----------------------------	----------

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0
-----------------------------	----------

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0
-----------------------------	----------

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**1**

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
1m SW	Irwell / Man. Ship Canal (Kearsley to Irlam Locks) NVZ	Surface Water	643	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

2

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on [page 85 >](#)

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t. Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.
2	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t. Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m**0**

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m**0**

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m**3**

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on [page 87 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	80m NW	Woodley	II	1067215	29/01/1985
3	199m NW	Stand United Reformed Church	II	1351972	10/12/1998
4	244m E	Stand Rectory	II	1067259	29/01/1985

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



11.5 Conservation Areas

Records within 250m

1

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

Features are displayed on the Visual and cultural designations map on [page 87](#) >

ID	Location	Name	District	Date of designation
2	193m E	All Saints, Whitefield	Bury	03/2004

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

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12.1 Agricultural Land Classification

Records within 250m

2

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on [page 90](#) >

ID	Location	Classification	Description
1	On site	Urban	Non-agricultural/no quality assigned
2	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.



This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

7

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on [page 92](#) >

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
6	119m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	193m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	232m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	1
----------------------------	----------

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

Features are displayed on the Habitat designations map on [page 92 >](#)

ID	Location	Type	Habitat
5	88m NE	Network Enhancement Zone 2	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	1
----------------------------	----------

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

Features are displayed on the Habitat designations map on [page 92 >](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
8	211m W	BRITPITS ref: 12359	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

3

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

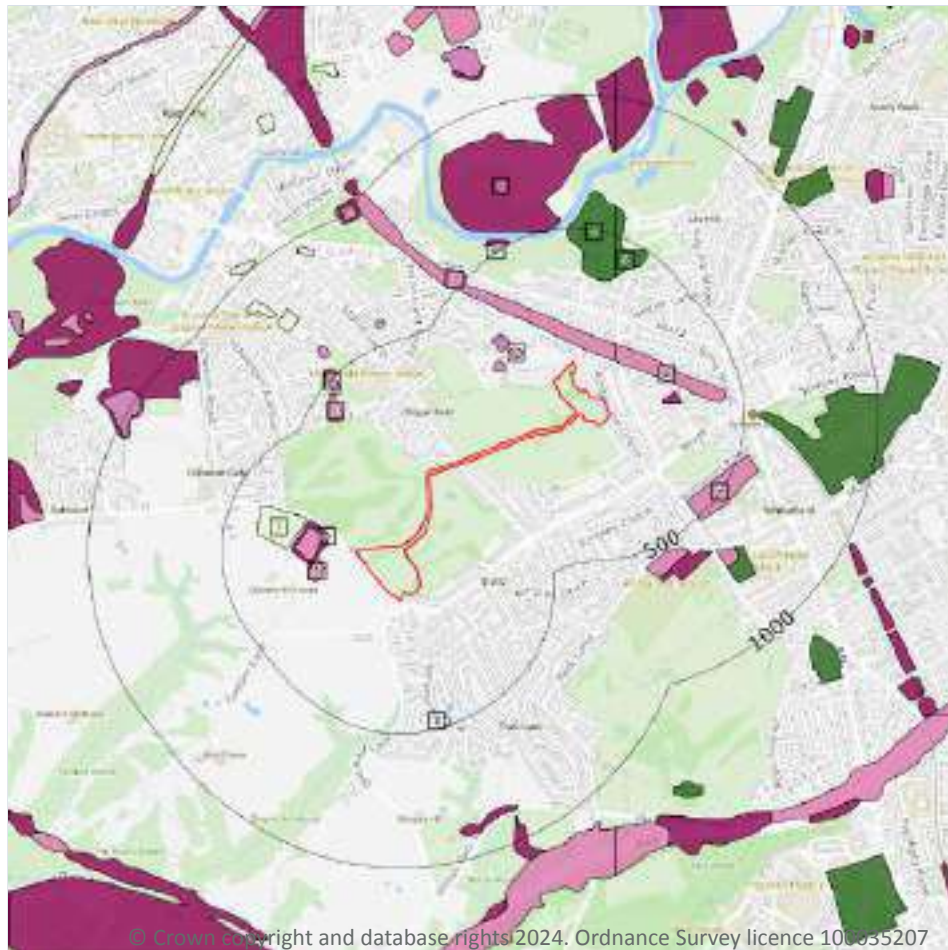
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 95](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD70NE
2	19m NE	Full	Full	Full	Full	SD80NW
3	426m S	Full	Full	Full	Full	SD70SE

This data is sourced from the British Geological Survey.



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



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

19

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 96](#) >

ID	Location	LEX Code	Description	Rock description
1	64m NE	WGR-VOID	Worked Ground (Undivided)	Void
A	113m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	132m SW	WGR-VOID	Worked Ground (Undivided)	Void
A	135m W	WGR-VOID	Worked Ground (Undivided)	Void

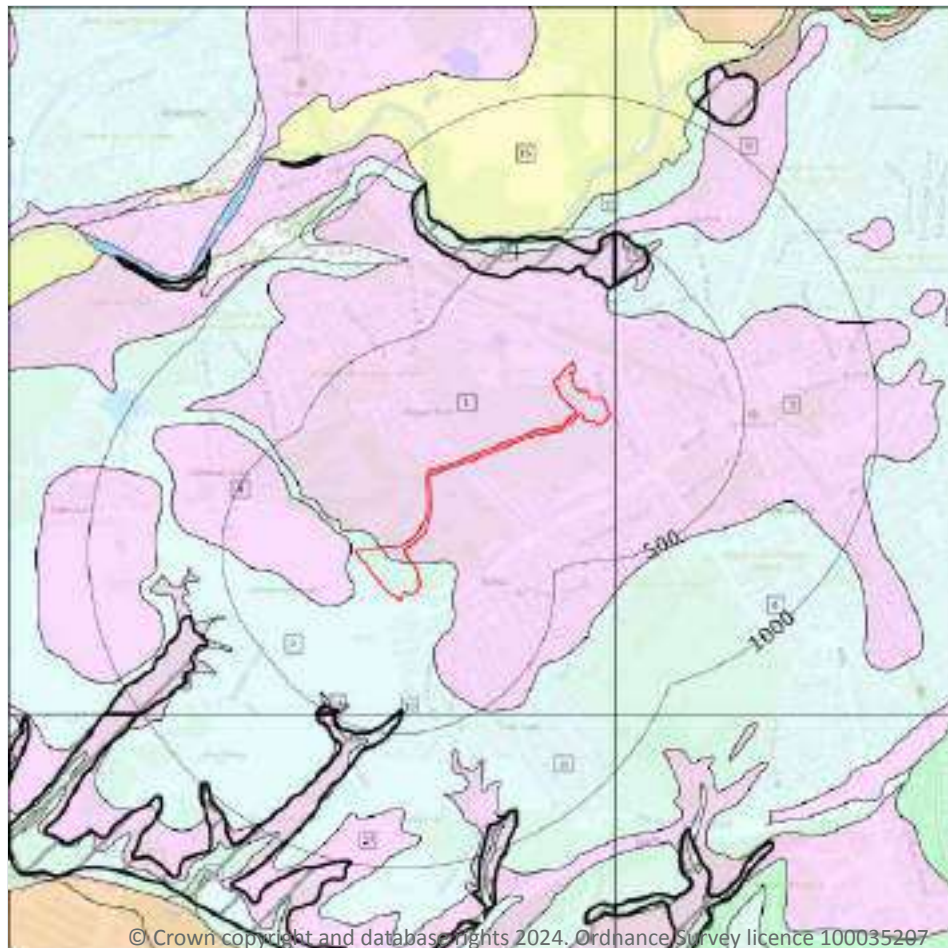


ID	Location	LEX Code	Description	Rock description
B	148m NE	WGR-VOID	Worked Ground (Undivided)	Void
C	155m N	WGR-VOID	Worked Ground (Undivided)	Void
C	190m N	WGR-VOID	Worked Ground (Undivided)	Void
B	199m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
C	215m N	WGR-VOID	Worked Ground (Undivided)	Void
3	220m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	324m NE	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
5	353m NE	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
6	371m NW	WGR-VOID	Worked Ground (Undivided)	Void
7	430m E	WGR-VOID	Worked Ground (Undivided)	Void
8	439m NW	WGR-VOID	Worked Ground (Undivided)	Void
D	463m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
D	472m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
E	494m N	WGR-VOID	Worked Ground (Undivided)	Void
9	496m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline
Search buffers in metres (m)

 Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

12

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 98](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
2	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
3	19m NE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	20m SW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
5	238m NE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
6	240m NE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
8	331m NE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
11	426m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
13	429m N	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
14	434m SW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
15	462m N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
17	485m SW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

5

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

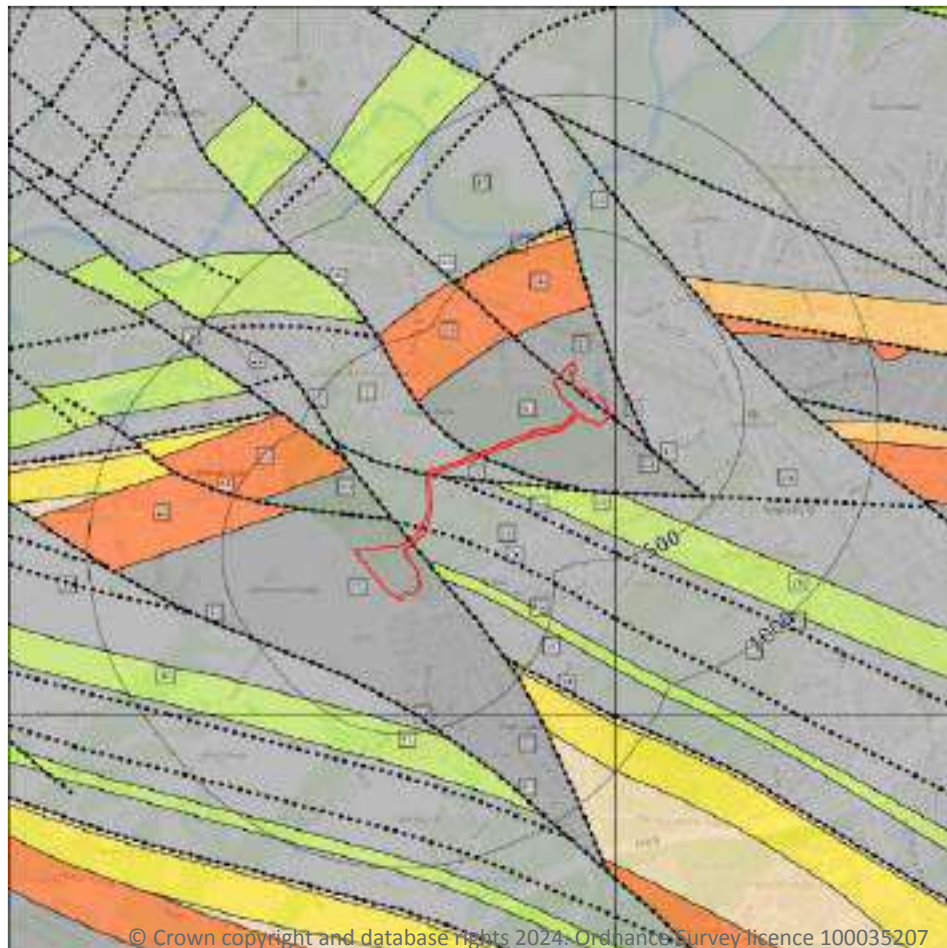
Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 98](#) >

ID	Location	LEX Code	Description	Rock description
7	308m NE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
9	331m NE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
10	413m S	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
12	426m S	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
16	476m SW	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

29

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 100](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsvian Sub-age - Duckmantian Sub-age
2	On site	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
3	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsvian Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
4	On site	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
5	On site	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
11	19m NE	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
13	22m NE	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
15	47m SW	NHSS-SDST	Newton Heath Sandstone - Sandstone	Bolsovian Sub-age
16	84m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
18	84m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
19	94m NE	NR-SDST	Nob End Rock - Sandstone	Bolsovian Sub-age
20	103m W	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
22	114m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
24	177m NE	MM-MDST	Manchester Marls Formation - Mudstone	Late Permian Epoch [Obsolete name]
25	233m N	MM-MDST	Manchester Marls Formation - Mudstone	Late Permian Epoch [Obsolete name]
26	257m E	NR-SDST	Nob End Rock - Sandstone	Bolsovian Sub-age
28	262m W	MM-MDST	Manchester Marls Formation - Mudstone	Late Permian Epoch [Obsolete name]
29	282m W	MM-MDST	Manchester Marls Formation - Mudstone	Late Permian Epoch [Obsolete name]
30	308m W	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
32	347m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
34	415m S	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
36	417m E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
37	426m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
39	430m S	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
41	447m SW	NR-SDST	Nob End Rock - Sandstone	Bolsovian Sub-age



ID	Location	LEX Code	Description	Rock age
42	447m SW	NR-SDST	Nob End Rock - Sandstone	Bolsovian Sub-age
43	451m S	WDR-SDST	Worsley Delf Rock - Sandstone	Bolsovian Sub-age
44	456m N	CS-SDST	Collyhurst Sandstone Formation - Sandstone	Cisuralian Epoch
45	475m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	18
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Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 100](#) >

ID	Location	Category	Description
6	On site	ROCK	Coal seam, inferred
7	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
8	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
9	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
10	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
12	21m NW	FOSSIL_HORIZON	Fossil horizon, marine band
14	22m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
17	84m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
21	103m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
23	114m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
27	257m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
31	308m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
33	347m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
35	415m S	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
38	427m S	FAULT	Normal fault, inferred; crossmarks on downthrow side



ID	Location	Category	Description
40	430m S	FAULT	Normal fault, inferred; crossmarks on downthrow side
46	475m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
47	478m E	FOSSIL_HORIZON	Fossil horizon, marine band

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- ☐ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 104](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW085_manchester_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

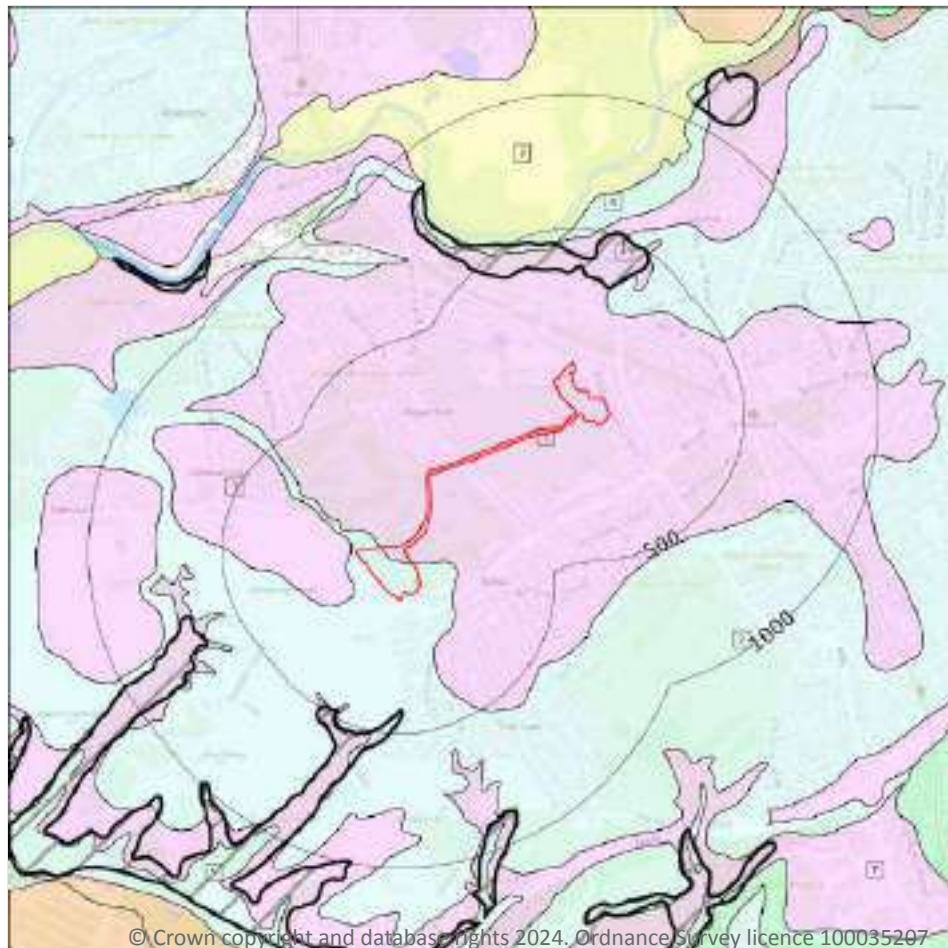
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

 Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

6

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 106](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	20m SW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
6	429m N	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
7	434m SW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
8	455m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	4
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low
On site	Intergranular	Very High	High
19m NE	Intergranular	Very High	High
20m SW	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	2
----------------------------	----------

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 106](#) >

ID	Location	LEX Code	Description	Rock description
4	309m NE	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
5	412m S	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

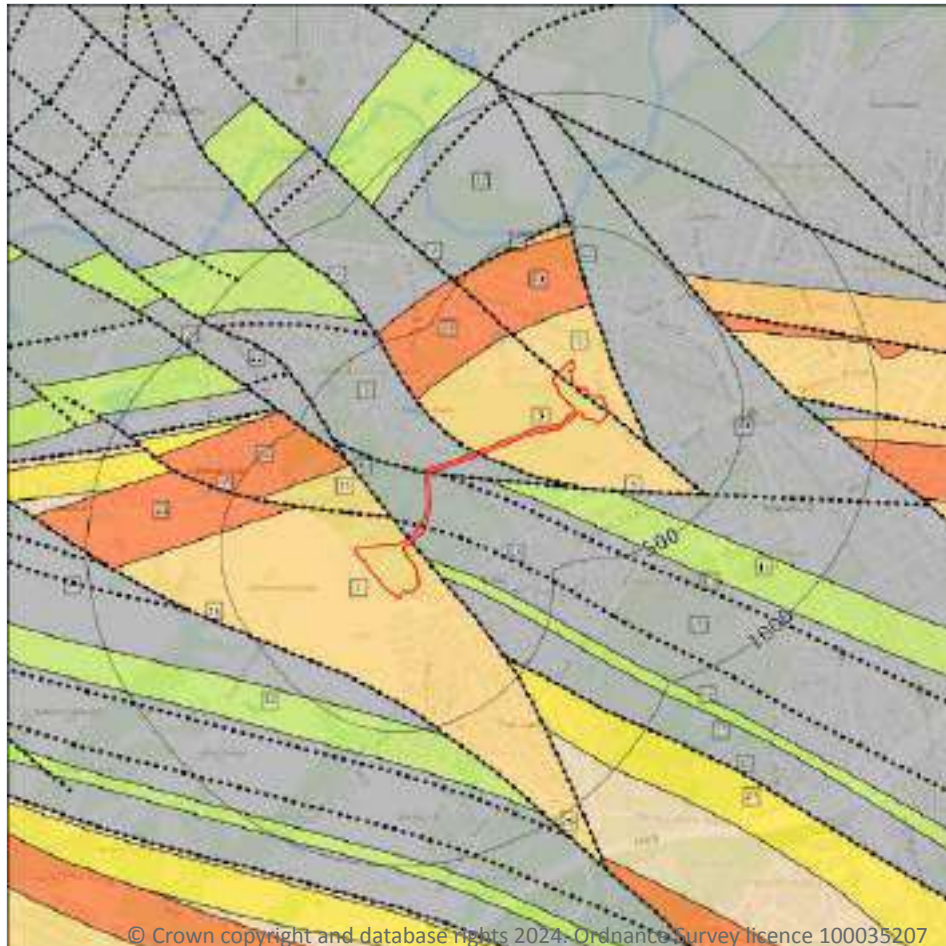
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

20

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 109 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
2	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	On site	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN

ID	Location	LEX Code	Description	Rock age
4	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	On site	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
12	48m SW	NHSS-SDST	NEWTON HEATH SANDSTONE - SANDSTONE	WESTPHALIAN
13	84m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	85m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	95m NE	NR-SDST	NOB END ROCK - SANDSTONE	WESTPHALIAN
17	103m W	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
19	177m NE	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-
20	233m N	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-
21	262m W	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-
22	282m W	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-
23	308m W	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
25	347m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
27	415m S	WDR-SDST	WORSLEY DELF ROCK - SANDSTONE	WESTPHALIAN
30	447m SW	NR-SDST	NOB END ROCK - SANDSTONE	WESTPHALIAN
31	457m N	CS-SDST	COLLYHURST SANDSTONE FORMATION - SANDSTONE	-
32	475m N	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	5
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low



Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Moderate
On site	Mixed	High	Moderate
19m NE	Mixed	High	Moderate
48m SW	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	13
----------------------------	-----------

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 109](#) >

ID	Location	Category	Description
6	On site	FAULT	Fault, inferred
7	On site	FAULT	Fault, inferred
8	On site	FAULT	Fault, inferred
9	On site	FAULT	Fault, inferred
10	On site	ROCK	Coal seam, inferred
11	21m NW	FOSSIL_HORIZON	Marine band
14	84m NE	FAULT	Fault, inferred
18	103m W	FAULT	Fault, inferred
24	308m W	FAULT	Fault, inferred
26	347m SW	FAULT	Fault, inferred
28	415m S	FOSSIL_HORIZON	Marine band
29	427m S	FAULT	Fault, inferred
33	475m N	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

3

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on [page 112](#) >

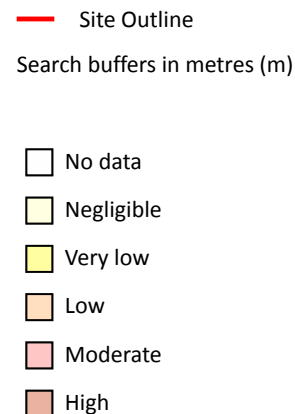
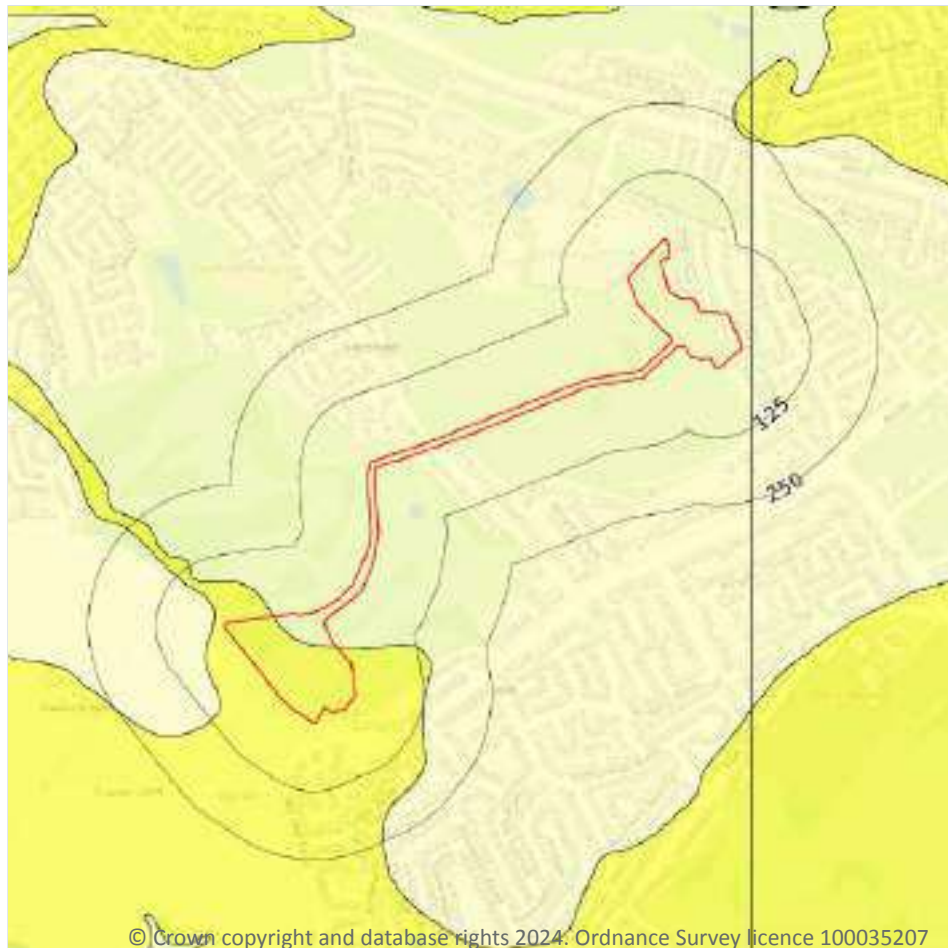
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	83m NE	379720 406150	STAND GOLF CLUB	14.26	N	18786 ↗
2	189m E	379760 405860	STAND GOLF CLUB ABH	34.5	N	18653 ↗
3	221m N	379560 406300	JAMES HALSTEAD LTD	-1.0	N	18766 ↗



This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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17.1 Shrink swell clays

Records within 50m

4

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 114](#) >

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
19m NE	Negligible	Ground conditions predominantly non-plastic.

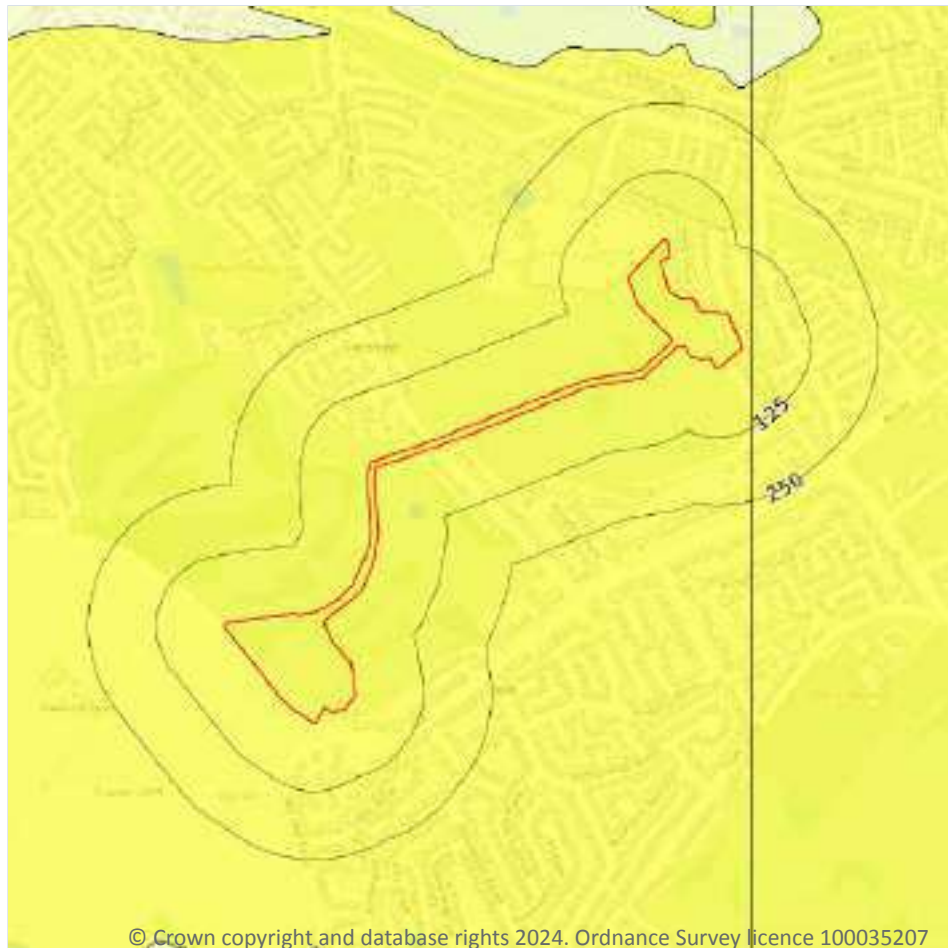


Location	Hazard rating	Details
20m SW	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 116](#) >

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
19m NE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

2

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

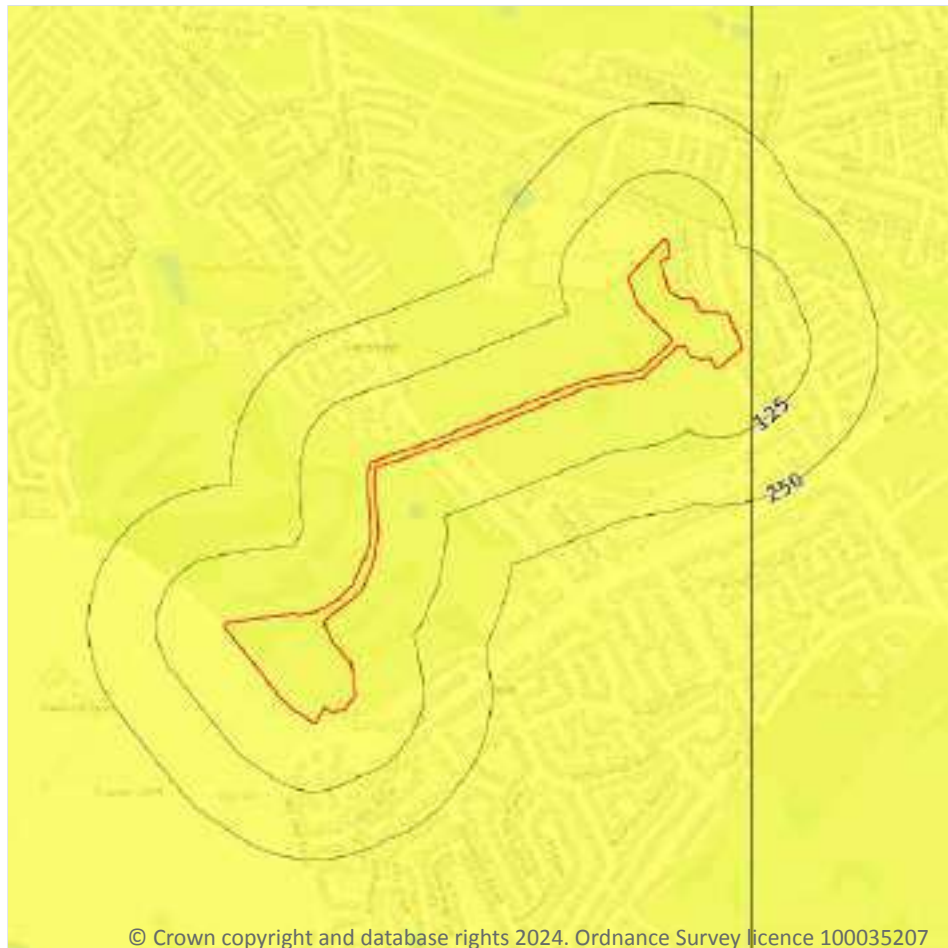
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 118](#) >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
19m NE	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

2

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

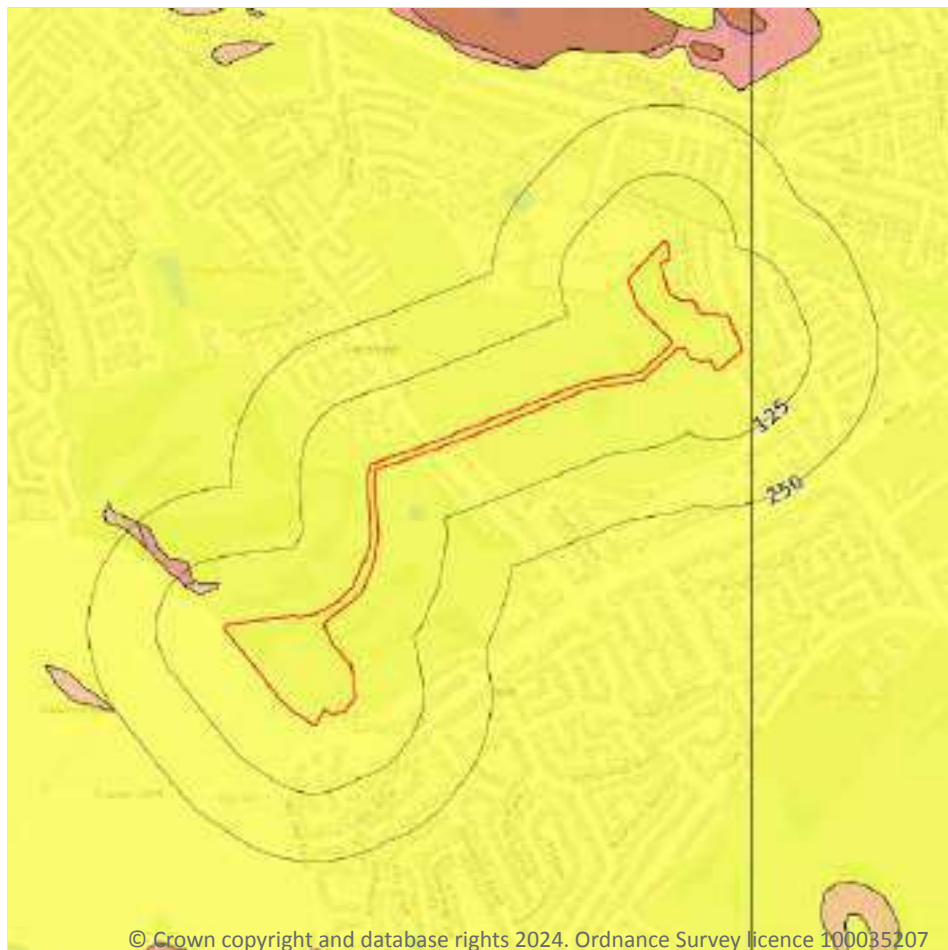
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 119 >](#)

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
19m NE	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Landslides map on [page 120](#) >

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



Location	Hazard rating	Details
19m NE	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

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17.6 Ground dissolution of soluble rocks

Records within 50m

2

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 122](#) >

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

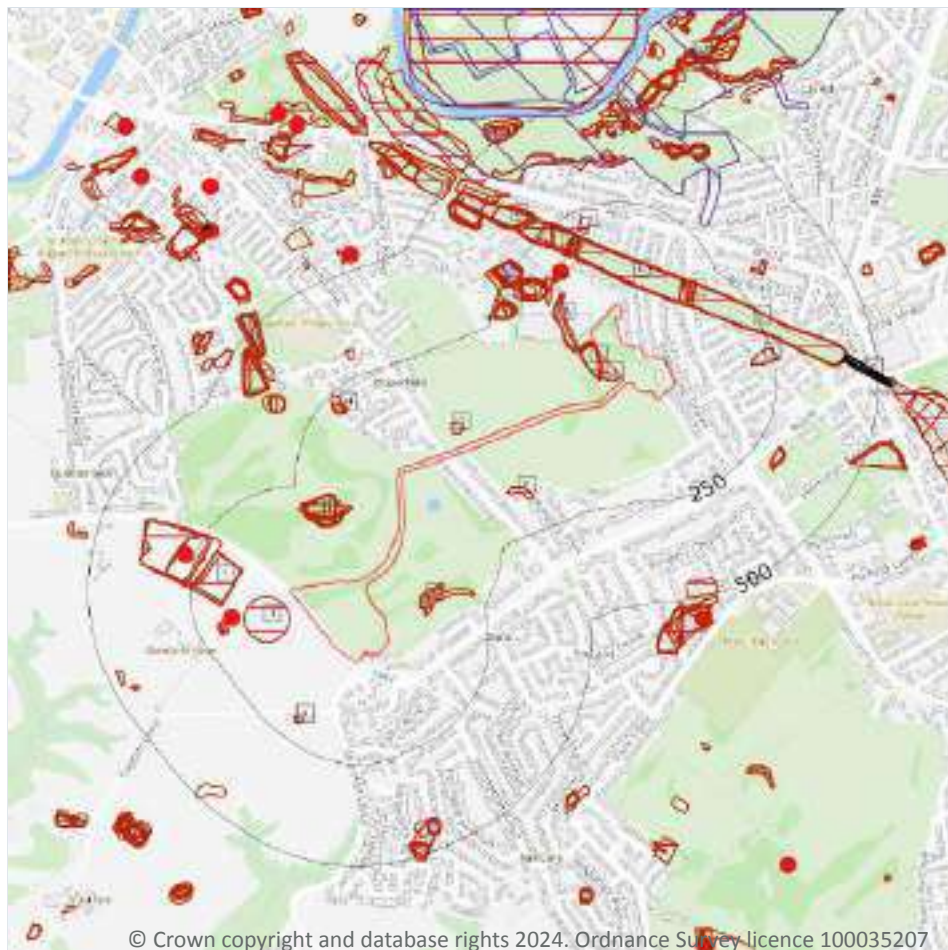


Location	Hazard rating	Details
19m NE	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- ▢ Surface ground workings
- ▢ Underground workings
- ▢ Underground mining extents
- ▢ Historical mineral planning areas
- ▢ TCA non-coal mining
- Non Coal Mining
- ▢ Sporadic underground mining of restricted extent possible
- ▢ Localised small scale underground mining possible
- ▢ Small scale mining possible
- ▢ Underground mining known or likely within or in close proximity
- ▢ Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

3

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on [page 124](#) >

ID	Location	Details	Description
G	154m NE	Name: The Dales Sand Pit Address: Whitefield, BURY, Lancashire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	159m SW	Name: Clarke's Hill Sand Pit Address: Outwood, RADCLIFFE, Lancashire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
P	274m W	Name: Stoneclough Sand Quarries Address: Outwood, RADCLIFFE, Lancashire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	116
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Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on [page 124 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Pond	1891	1:10560
A	3m NE	Pond	1915	1:10560
A	3m NE	Pond	1907	1:10560
A	3m NE	Pond	1923	1:10560
A	5m NE	Pond	1848	1:10560
1	9m NE	Refuse Heap	1965	1:10560
2	33m N	Unspecified Pit	1850	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
3	34m SW	Sand Pit	1891	1:10560
B	43m NE	Unspecified Ground Workings	1955	1:10560
B	47m NE	Unspecified Ground Workings	1938	1:10560
B	47m NE	Unspecified Ground Workings	1932	1:10560
C	53m NE	Cuttings	1891	1:10560
C	56m NE	Cuttings	1915	1:10560
C	56m NE	Cuttings	1907	1:10560
C	56m NE	Cuttings	1923	1:10560
D	57m NE	Cuttings	1932	1:10560
D	57m NE	Cuttings	1938	1:10560
C	59m NE	Cuttings	1991	1:10000
C	59m NE	Cuttings	1977	1:10000
C	59m NE	Cuttings	1965	1:10560
C	59m NE	Cuttings	1988	1:10000
C	59m NE	Cuttings	1955	1:10560
E	91m S	Unspecified Heap	1977	1:10000
E	97m S	Refuse Heap	1938	1:10560
E	97m S	Refuse Heap	1927	1:10560
E	99m S	Unspecified Ground Workings	1965	1:10560
F	116m W	Unspecified Pit	1977	1:10000
F	116m W	Unspecified Pit	1965	1:10560
F	122m W	Pond	1955	1:10560
G	123m NE	Unspecified Ground Workings	1955	1:10560
H	125m E	Unspecified Ground Workings	1977	1:10000
H	125m E	Unspecified Ground Workings	1965	1:10560
F	129m W	Unspecified Ground Workings	1938	1:10560
F	129m W	Unspecified Ground Workings	1927	1:10560
I	131m W	Covered Reservoir	1991	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
I	131m W	Reservoir	1977	1:10000
I	131m W	Reservoir	1965	1:10560
I	131m W	Covered Reservoir	1988	1:10000
I	131m W	Reservoir	1955	1:10560
I	132m W	Reservoir	1938	1:10560
I	132m W	Reservoir	1927	1:10560
I	132m W	Reservoir	1908	1:10560
I	132m W	Reservoir	1891	1:10560
G	134m NE	Sand Pit	1848	1:10560
G	141m N	Pond	1965	1:10560
G	143m NE	Refuse Heap	1908	1:10560
G	143m N	Pond	1955	1:10560
J	143m NE	Cuttings	1891	1:10560
J	145m NE	Cuttings	1915	1:10560
J	145m NE	Cuttings	1907	1:10560
J	145m NE	Cuttings	1923	1:10560
G	145m N	Reservoirs	1938	1:10560
G	145m N	Reservoirs	1927	1:10560
G	145m N	Reservoirs	1908	1:10560
G	145m N	Pond	1891	1:10560
J	148m NE	Cuttings	1981	1:10000
J	148m NE	Cuttings	1974	1:10000
J	148m NE	Cuttings	1965	1:10560
J	148m NE	Cuttings	1955	1:10560
G	150m NE	Unspecified Ground Workings	1932	1:10560
G	151m NE	Unspecified Ground Workings	1938	1:10560
F	151m W	Pond	1891	1:10560
F	154m W	Pond	1850	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	154m W	Pond	1908	1:10560
G	157m N	Reservoirs	1991	1:10000
G	157m N	Reservoirs	1977	1:10000
G	157m N	Reservoirs	1988	1:10000
G	161m N	Pond	1850	1:10560
L	164m NE	Cuttings	1891	1:10560
L	171m NE	Cuttings	1965	1:10560
L	171m NE	Cuttings	1955	1:10560
L	176m NE	Cuttings	1915	1:10560
L	176m NE	Cuttings	1907	1:10560
L	176m NE	Cuttings	1923	1:10560
K	181m SW	Refuse Heap	1955	1:10560
L	182m N	Cuttings	1991	1:10000
L	182m N	Cuttings	1988	1:10000
4	182m SW	Sand Pit	1850	1:10560
L	183m N	Cuttings	1977	1:10000
5	190m NE	Unspecified Pit	1891	1:10560
K	190m SW	Refuse Heap	1938	1:10560
K	190m SW	Refuse Heap	1927	1:10560
M	190m NW	Refuse Heap	1955	1:10560
N	191m N	Reservoirs	1991	1:10000
N	191m N	Reservoirs	1977	1:10000
N	191m N	Reservoirs	1988	1:10000
O	191m NE	Unspecified Heap	1981	1:10000
O	191m NE	Unspecified Heap	1974	1:10000
O	191m NE	Unspecified Heap	1965	1:10560
N	191m N	Pond	1965	1:10560
M	192m NW	Unspecified Heap	1965	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
N	194m N	Reservoir	1955	1:10560
M	198m NW	Refuse Heap	1938	1:10560
M	198m NW	Refuse Heap	1927	1:10560
N	200m N	Reservoir	1938	1:10560
N	200m N	Reservoir	1927	1:10560
N	200m N	Reservoir	1908	1:10560
N	201m N	Unspecified Pit	1891	1:10560
P	207m W	Disused Workings	1991	1:10000
P	207m W	Disused Workings	1988	1:10000
N	212m N	Pond	1850	1:10560
L	215m N	Cuttings	1938	1:10560
L	215m N	Cuttings	1927	1:10560
L	215m N	Cuttings	1908	1:10560
Q	215m N	Cuttings	1891	1:10560
G	219m N	Pond	1955	1:10560
G	219m N	Reservoirs	1991	1:10000
G	219m N	Reservoirs	1977	1:10000
G	219m N	Reservoirs	1988	1:10000
G	222m N	Pond	1965	1:10560
G	222m N	Ponds	1891	1:10560
P	229m W	Unspecified Pit	1977	1:10000
P	229m W	Unspecified Pit	1965	1:10560
P	230m W	Refuse Heap	1955	1:10560
G	232m N	Ponds	1850	1:10560
P	238m W	Refuse Heap	1938	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.3 Underground workings

Records within 1000m

13

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining and ground workings map on [page 124 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
Y	417m E	Tunnel	1891	1:10560
Y	417m E	Tunnel	1981	1:10000
Y	417m E	Tunnel	1974	1:10000
Y	417m E	Tunnel	1965	1:10560
Y	417m E	Tunnel	1955	1:10560
Y	420m E	Tunnels	1915	1:10560
Y	420m E	Tunnel	1907	1:10560
Y	420m E	Tunnel	1923	1:10560
Y	420m E	Tunnel	1932	1:10560
Y	421m E	Tunnel	1938	1:10560
AY	756m NW	Unspecified Old Shaft	1955	1:10560
AY	759m NW	Unspecified Old Shaft	1938	1:10560
AY	759m NW	Unspecified Old Shaft	1927	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

2

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

Features are displayed on the Mining and ground workings map on [page 124 >](#)

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
R	279m NE	Spring Clough and Spring Water	Sand and gravel	Surface mineral working	Refused	22/4/65
AA	446m NE	Spring Clough and Spring Water	Sand and gravel	Surface mineral working	Refused	22/4/65

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

1

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk ↗.

This data is sourced from Johnson Poole and Bloomer.



18.8 The Coal Authority non-coal mining

Records within 500m**0**

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m**0**

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m**0**

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m**0**

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.



18.12 Coal mining

Records on site	1
-----------------	---

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0
-----------------	---

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).



19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

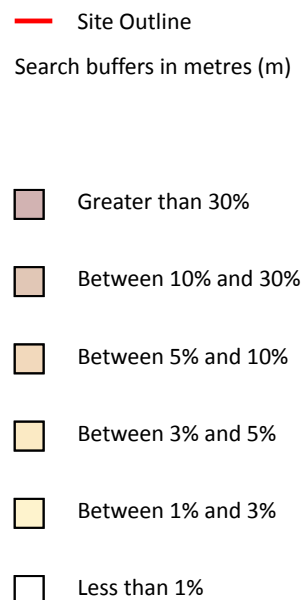
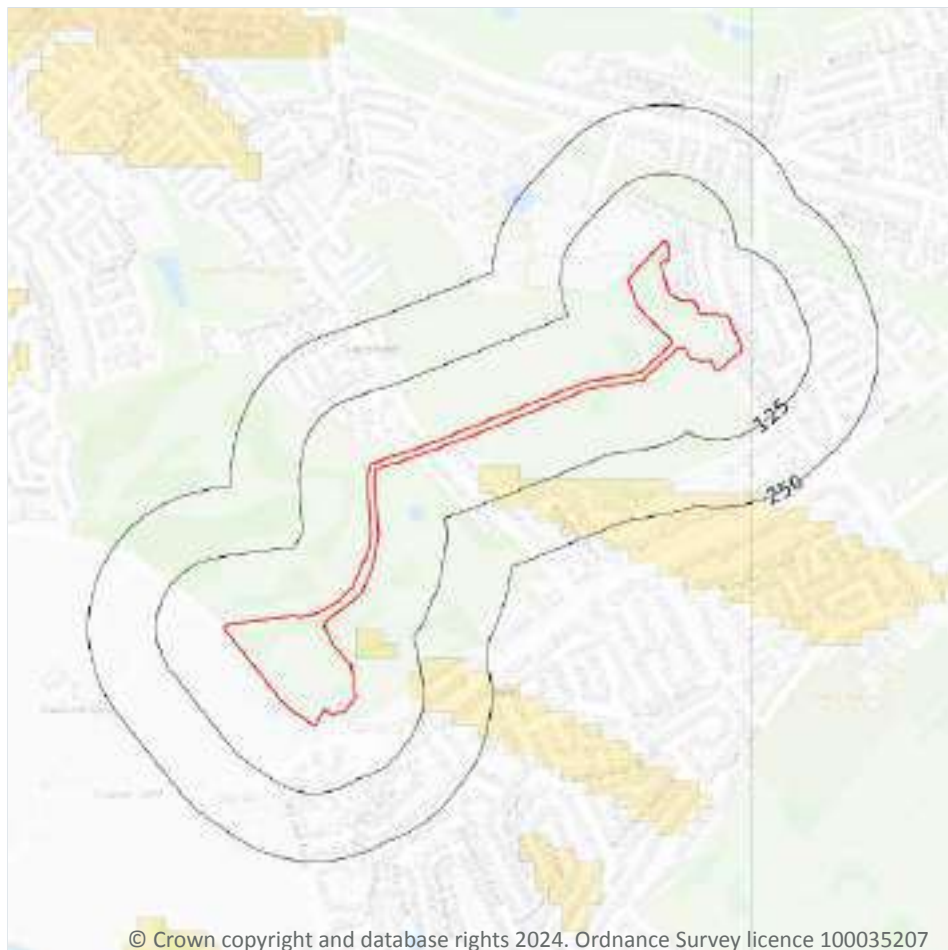
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 136](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None



This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

19

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
15m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
17m SW	15 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
19m NE	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
19m NE	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
20m NE	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
21m NE	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
21m NE	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
22m N	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
31m SW	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
34m SW	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
43m NE	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- ... Active railways
- ... Active tunnels
- ... Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

6

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on [page 140](#) >



Location	Name	Type
92m NE	Metrolink	light_rail
94m NE	Not given	Multi Track
96m NE	Metrolink	light_rail
163m NE	Not given	Multi Track
177m NE	Not given	Multi Track
187m NE	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference> ↗.

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Site Details:

STAND GOLF CLUB,
ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: County Series

Map date: 1848-1850

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1846
Revised N/A
Edition 1850
Copyright N/A
Levelled N/A

Surveyed 1845
Revised N/A
Edition 1848
Copyright N/A
Levelled N/A

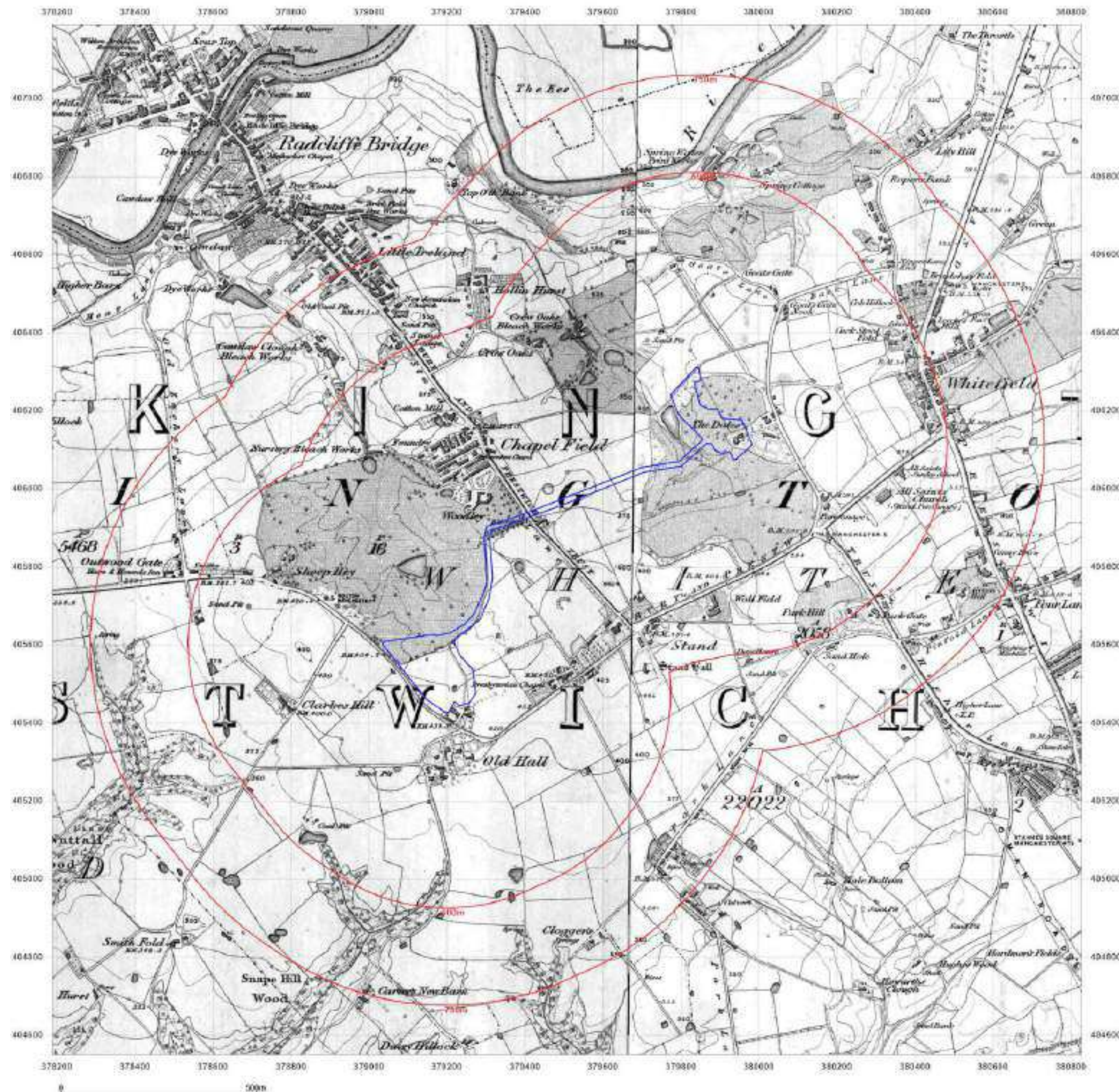


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Map legend available at:
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Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: County Series

Map date: 1891

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
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Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1891
Edition N/A
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Levelled N/A

Surveyed 1891
Revised 1891
Edition N/A
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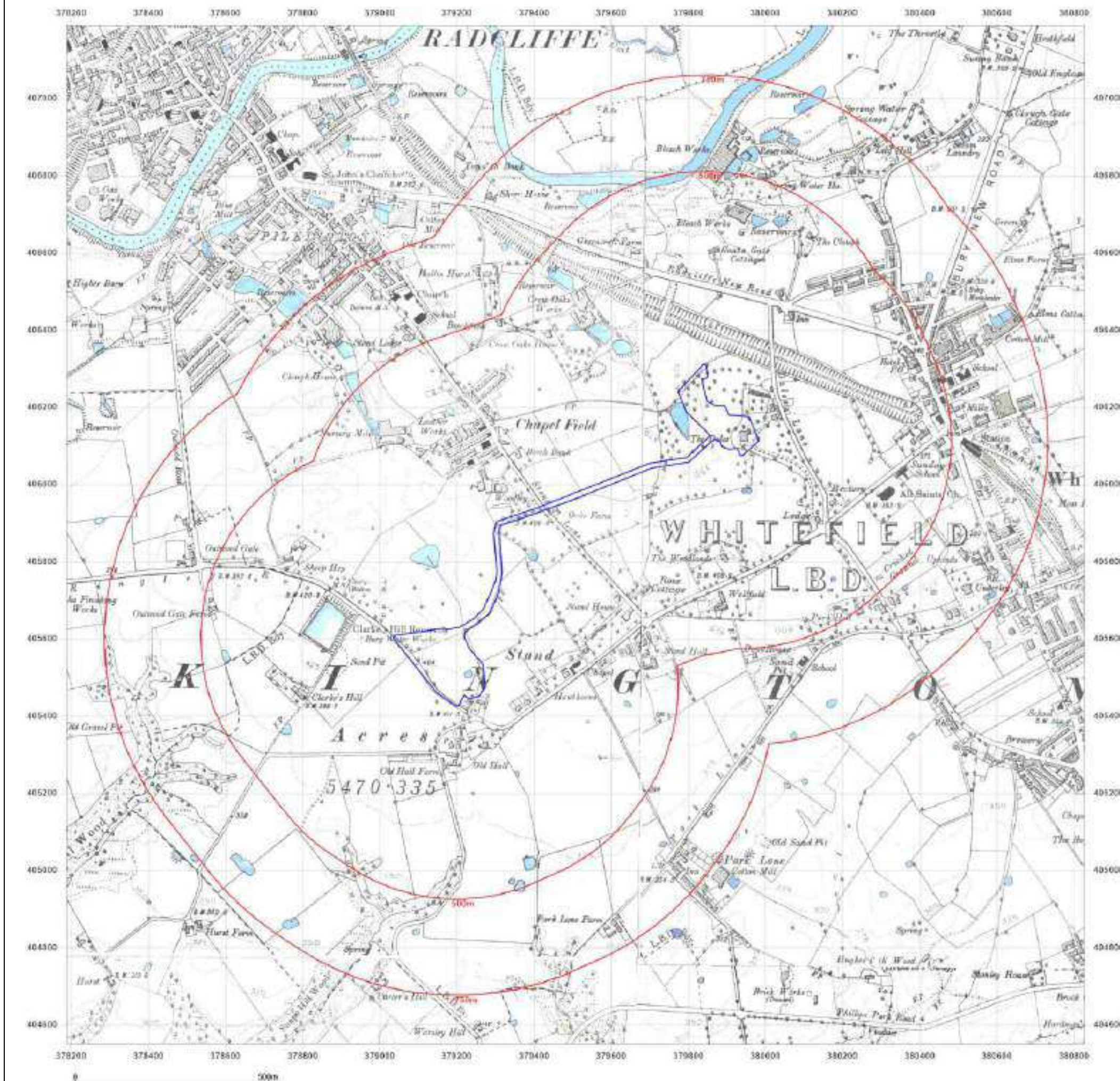


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Site Details:

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ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: County Series

Map date: 1907-1908

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1908
Edition N/A
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Surveyed 1844
Revised 1907
Edition N/A
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Revised 1907
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Surveyed 1844
Revised 1907
Edition N/A
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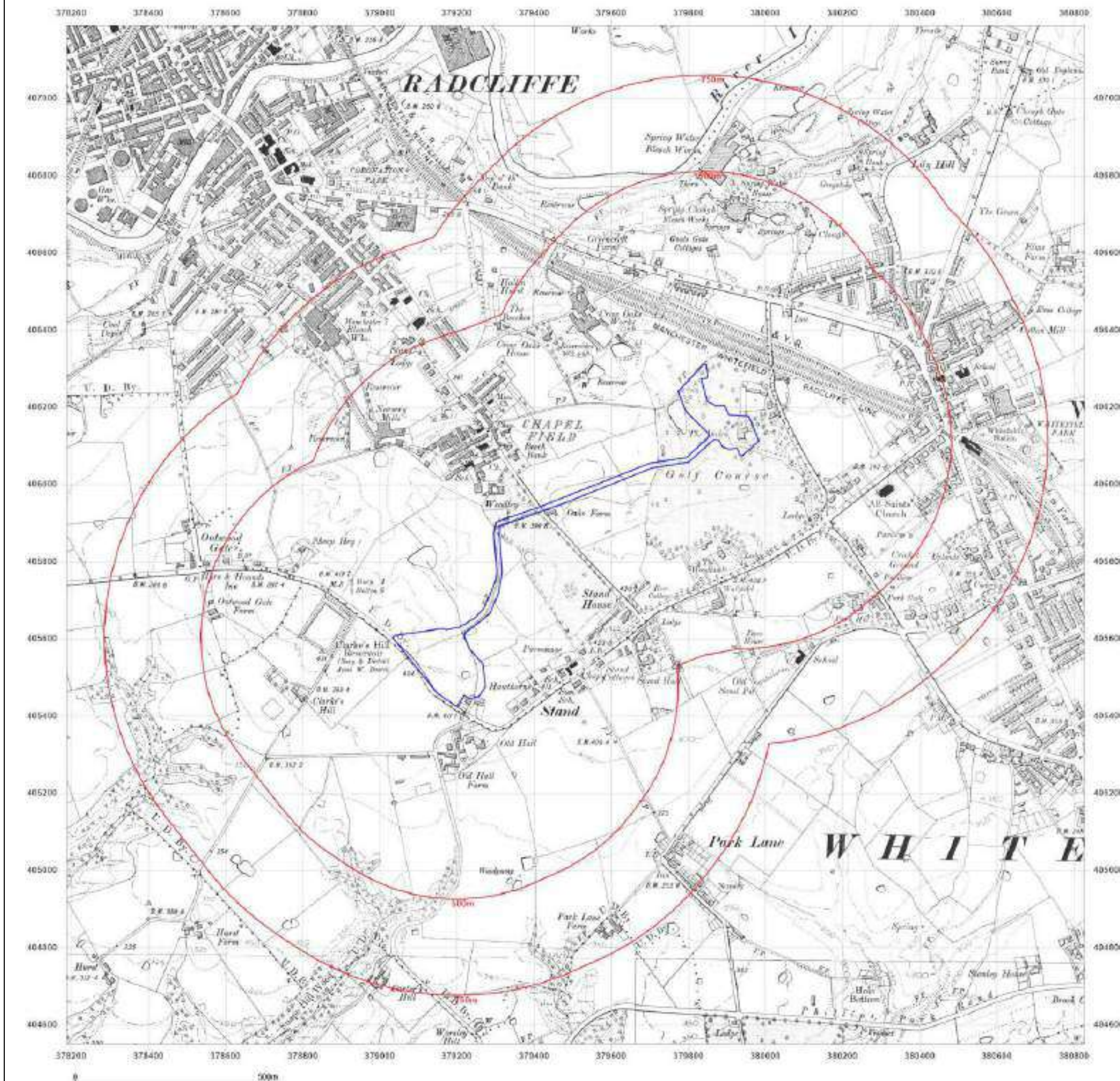


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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: County Series

Map date: 1915

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1915
Edition N/A
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Levelled N/A

Surveyed 1844
Revised 1915
Edition N/A
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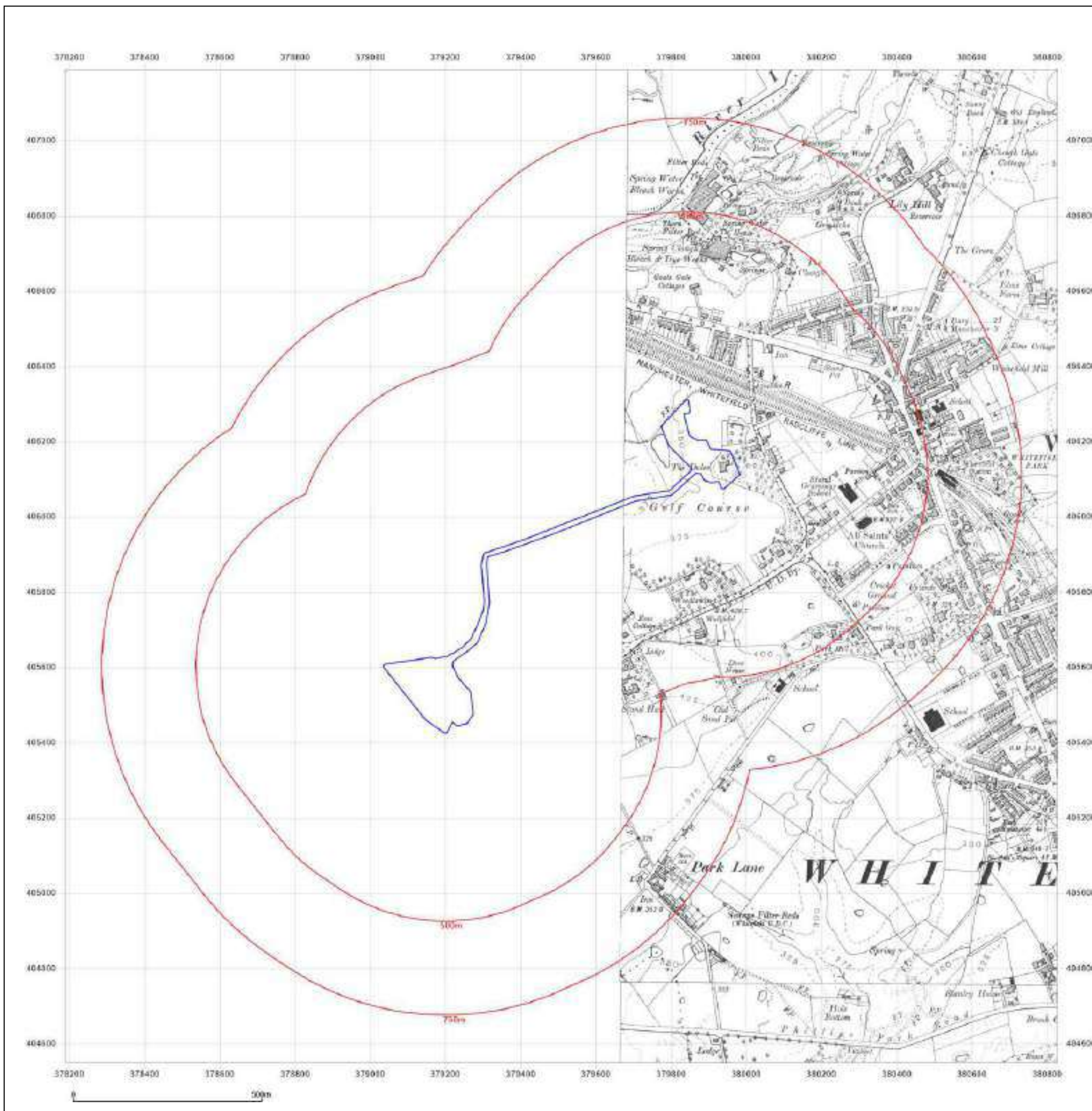


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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: County Series

Map date: 1923-1927

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
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Surveyed 1844
Revised 1927
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

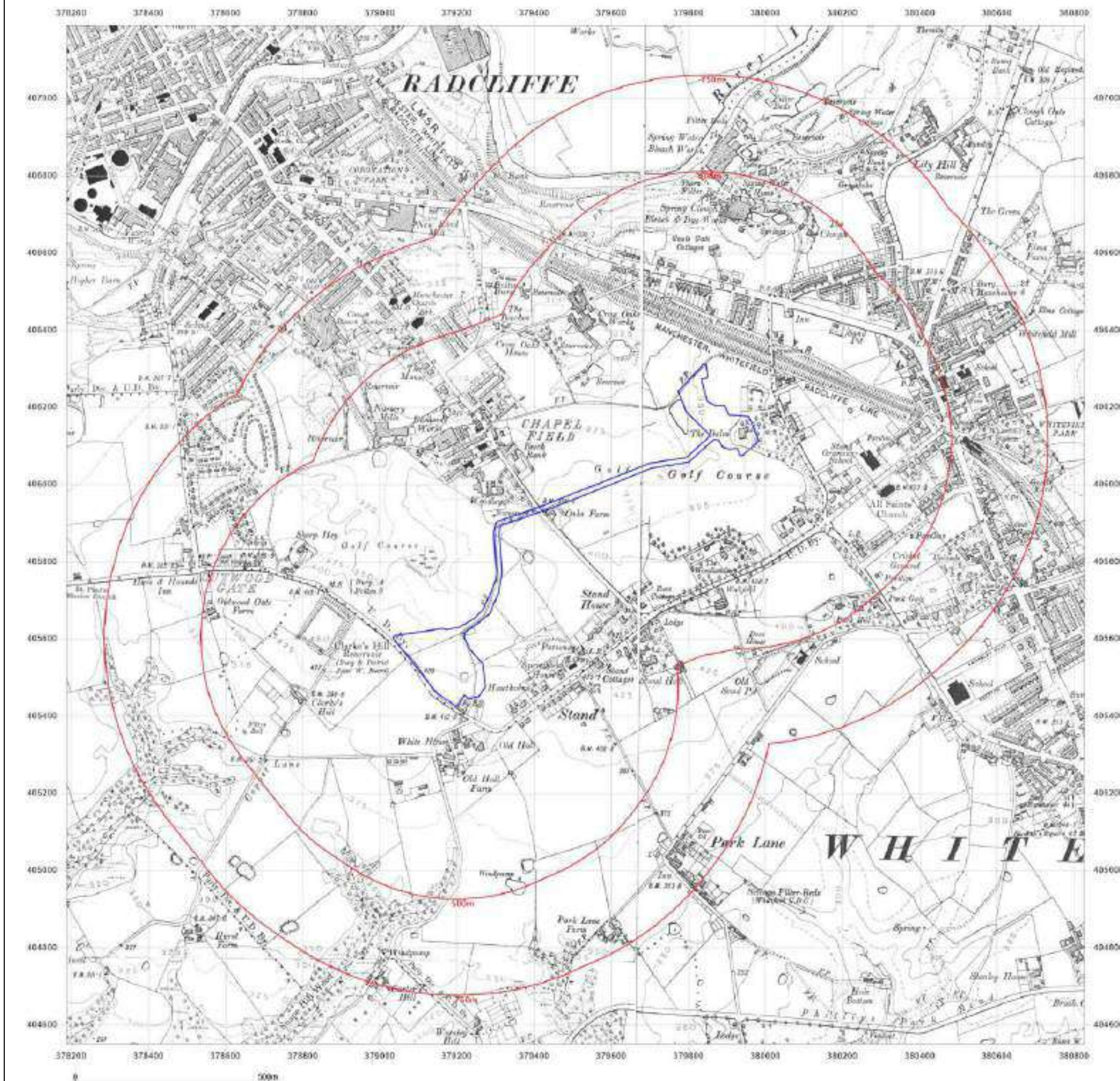


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Site Details:

STAND GOLF CLUB,
ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1938
Edition N/A
Copyright N/A
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Surveyed 1844
Revised 1938
Edition N/A
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Levelled N/A

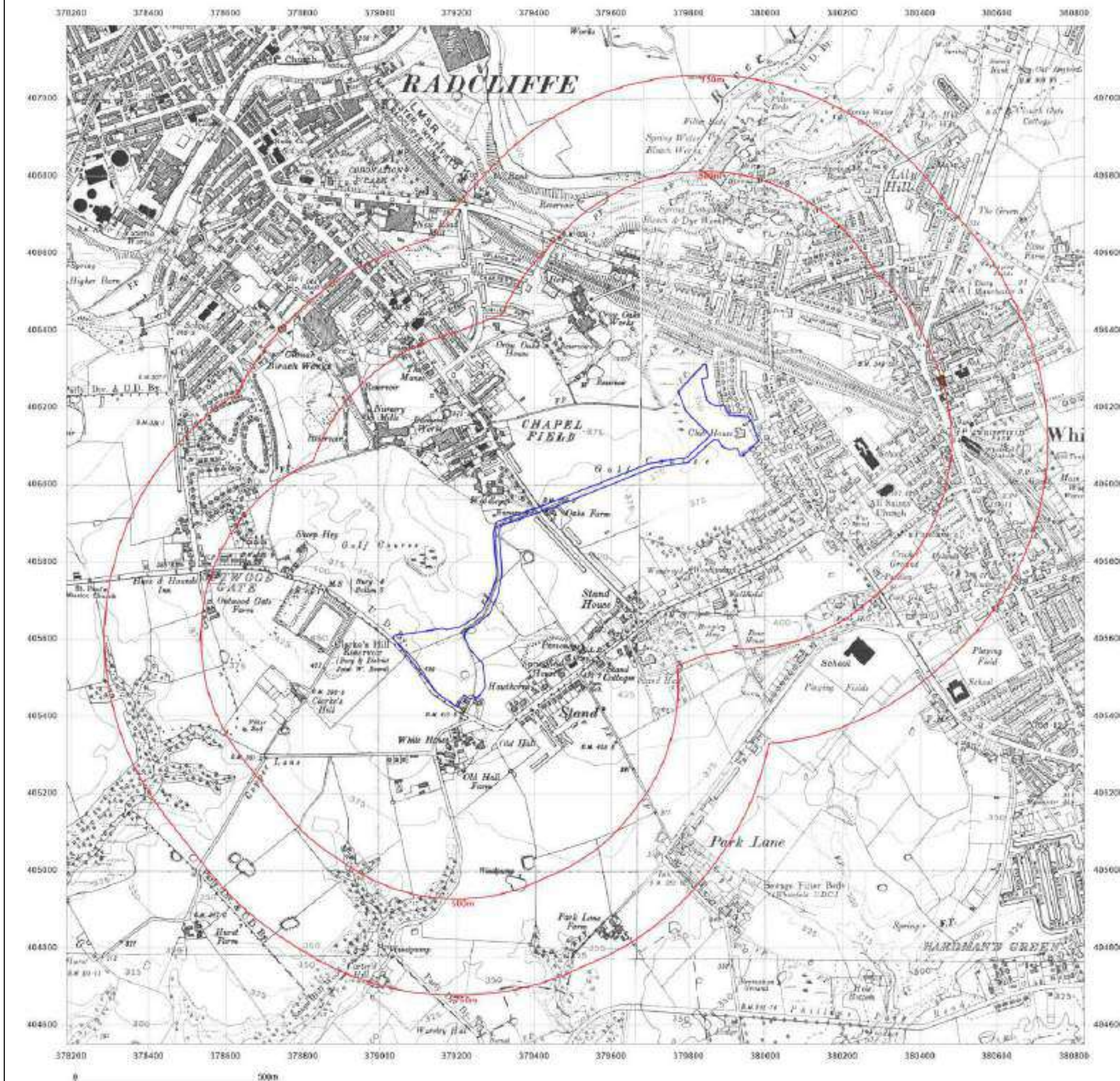


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Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1955
Edition 1955
Copyright N/A
Levelled N/A

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
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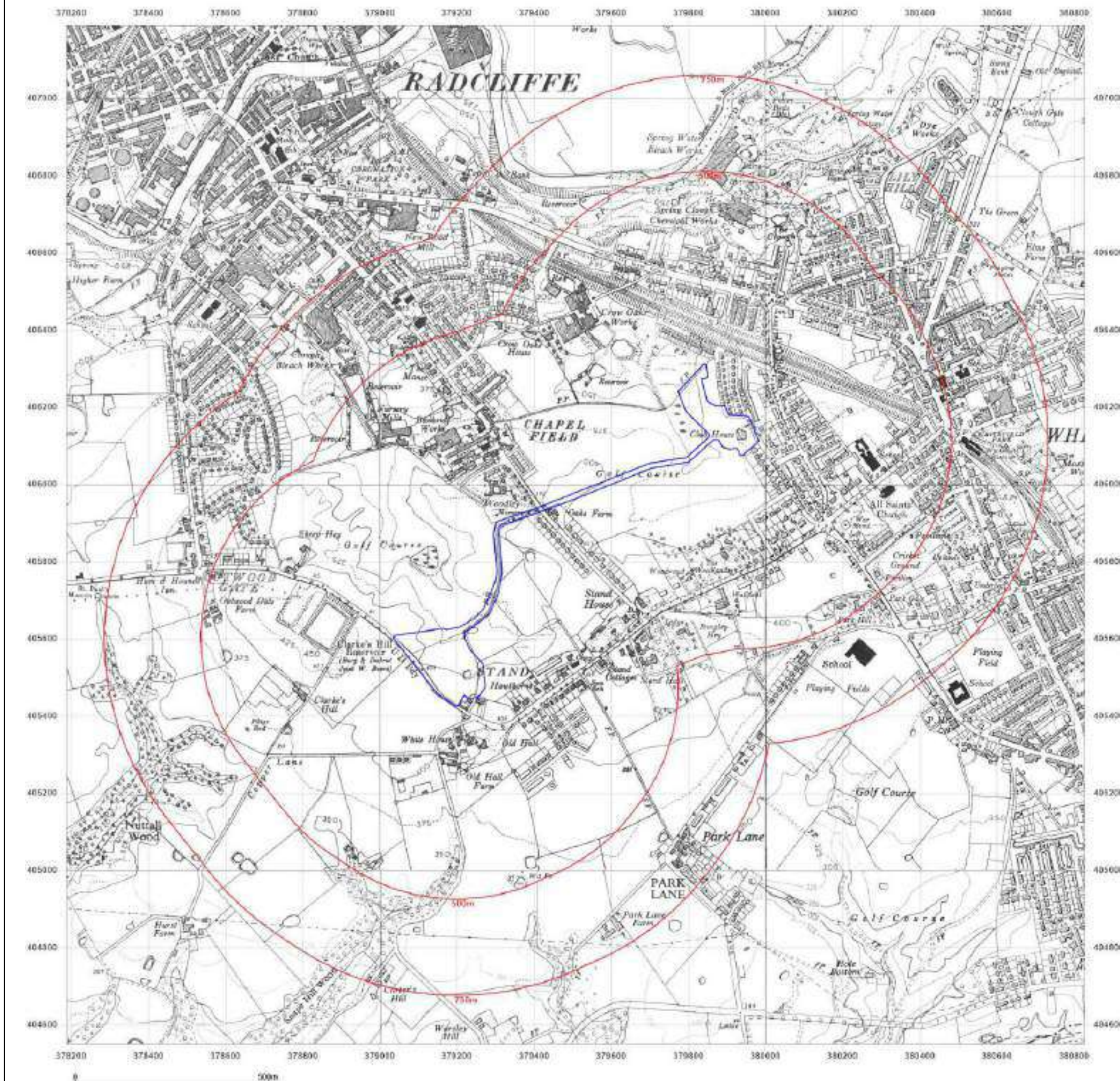


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Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: Provisional

Map date: 1965-1968

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1965
Edition N/A
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Edition N/A
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Surveyed 1968
Revised 1968
Edition N/A
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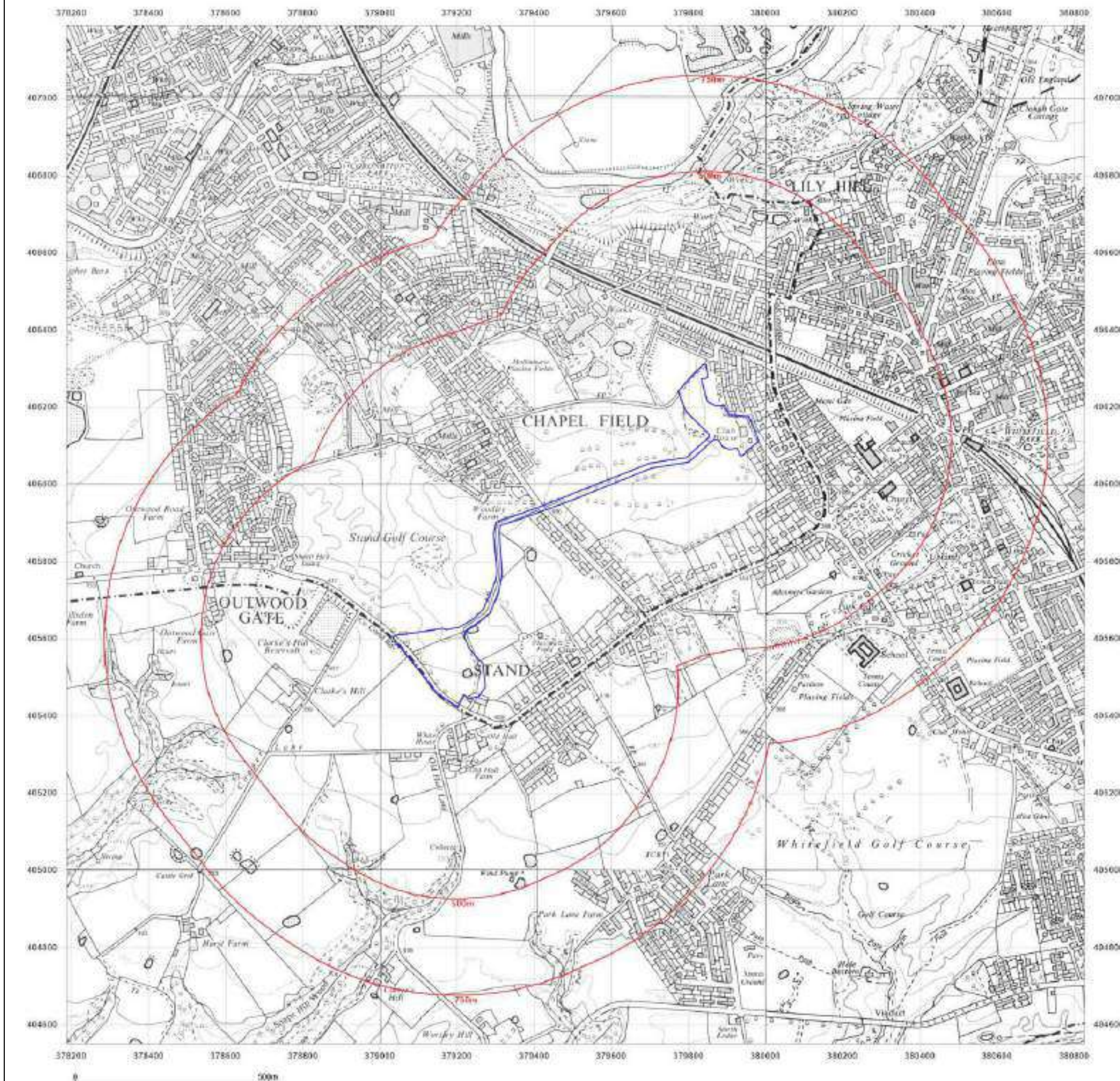


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Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 1973-1977

Scale: 1:10,000

Printed at: 1:10,000



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Edition N/A
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Revised 1973
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Surveyed 1975
Revised 1977
Edition N/A
Copyright N/A
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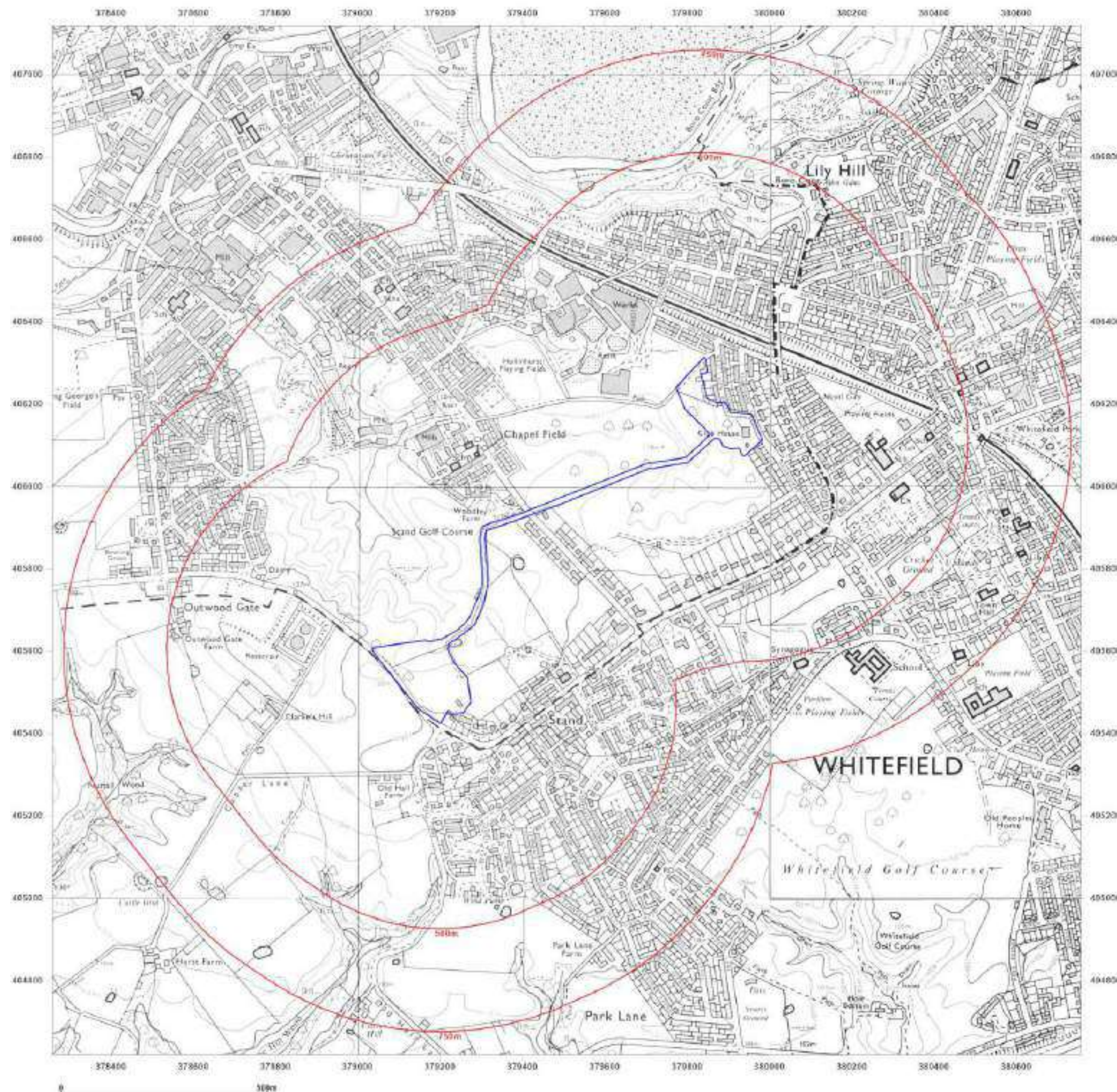


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

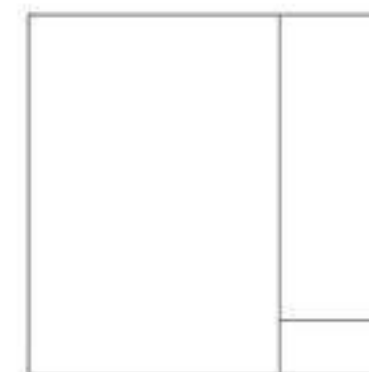
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Scale: 1:10,000

Printed at: 1:10,000



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Revised 1985
Edition N/A
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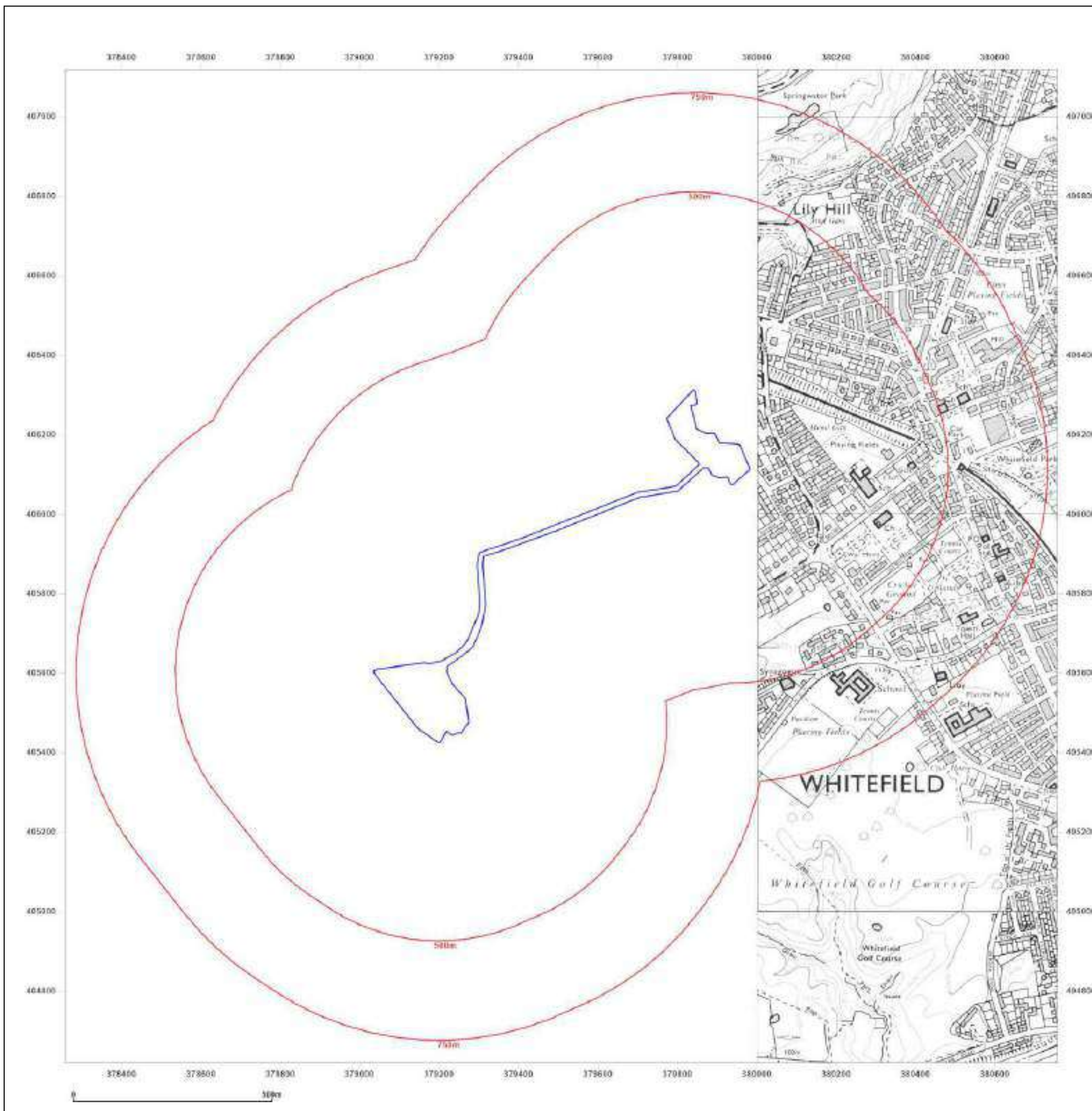


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

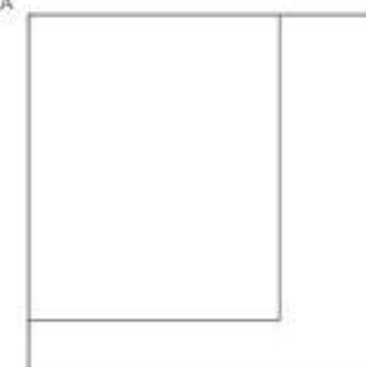
Map date: 1988

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1985
Revised 1988
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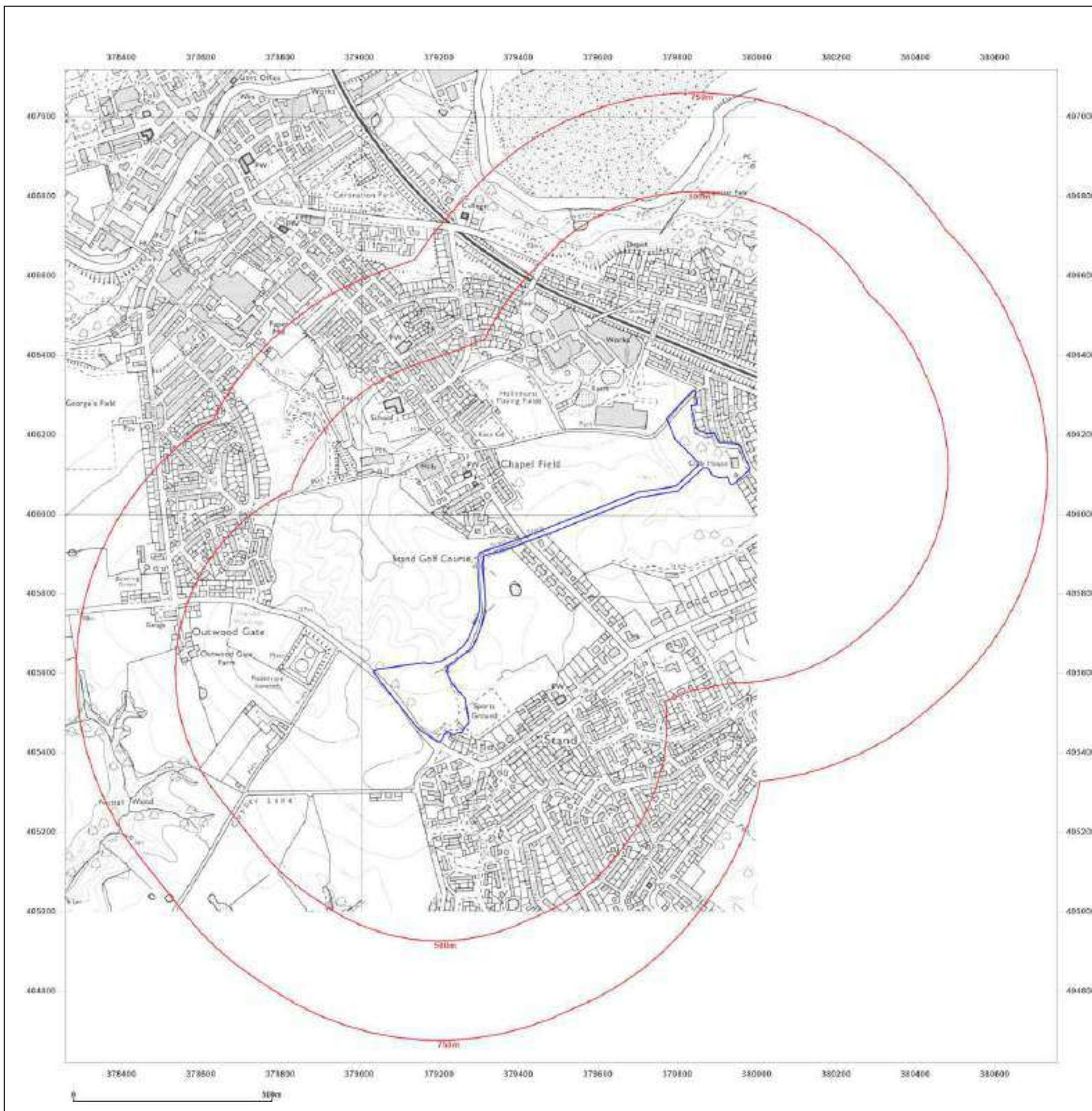


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 1988-1991

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1987
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Edition N/A
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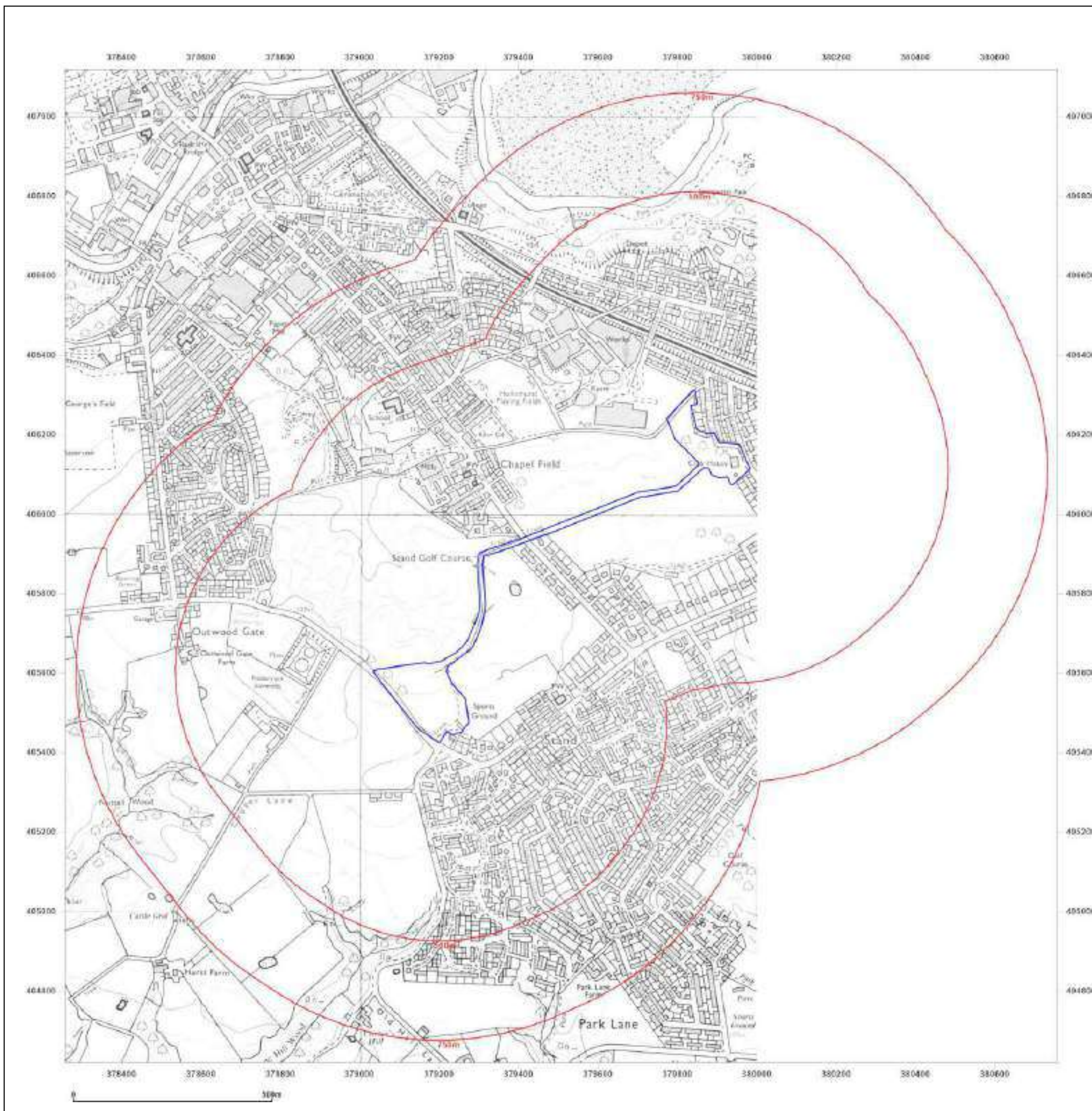


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

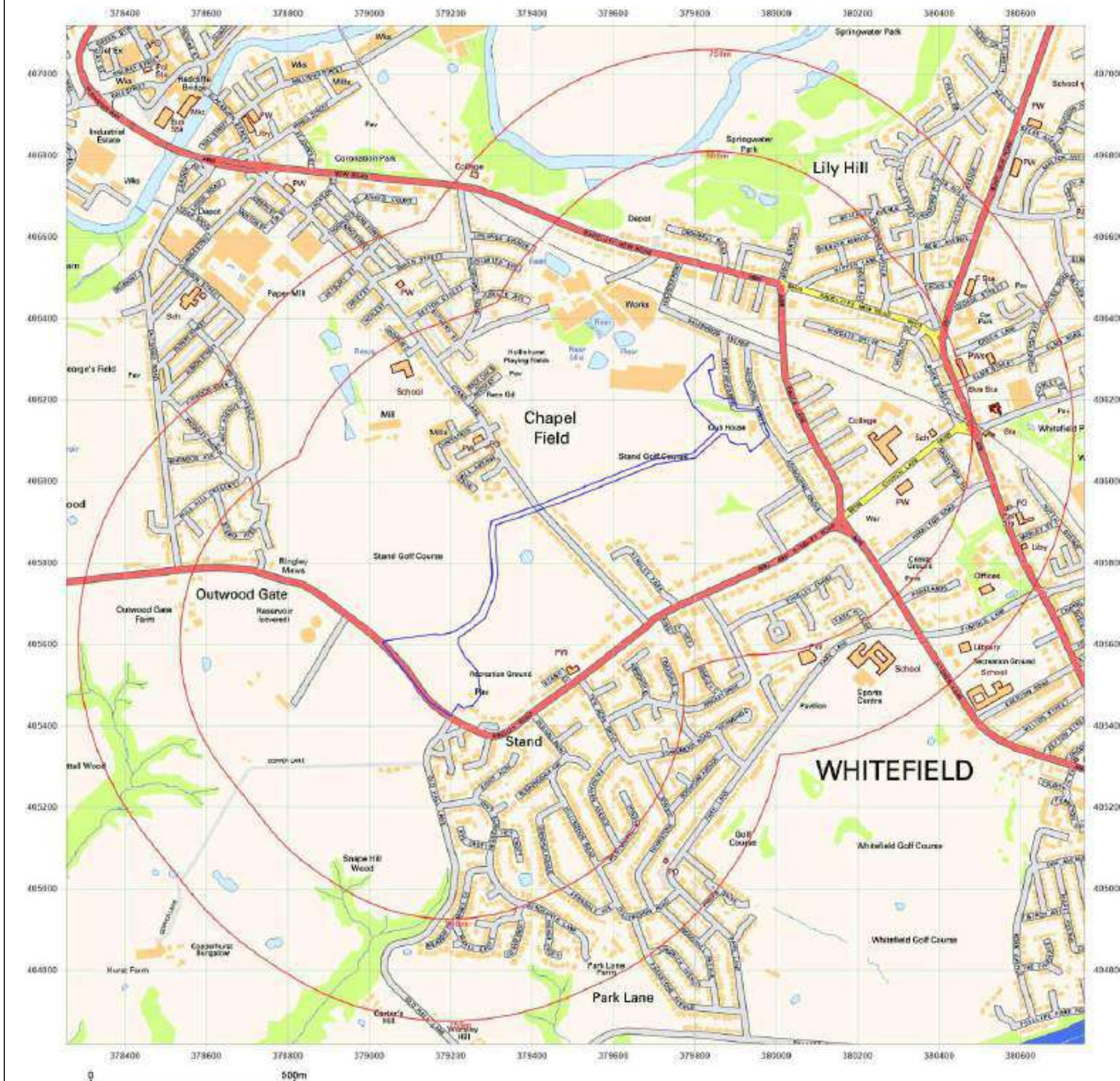


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

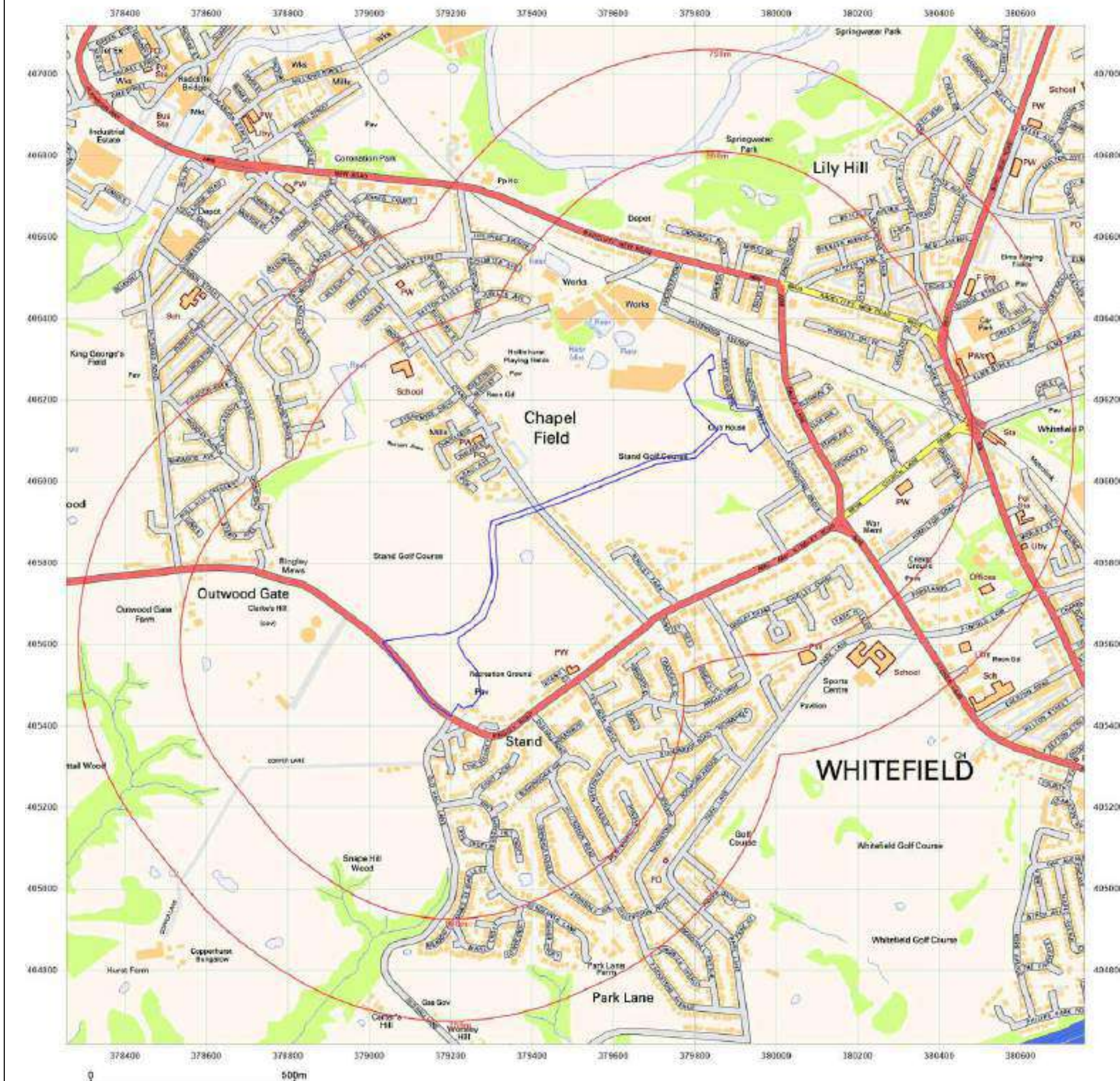


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000

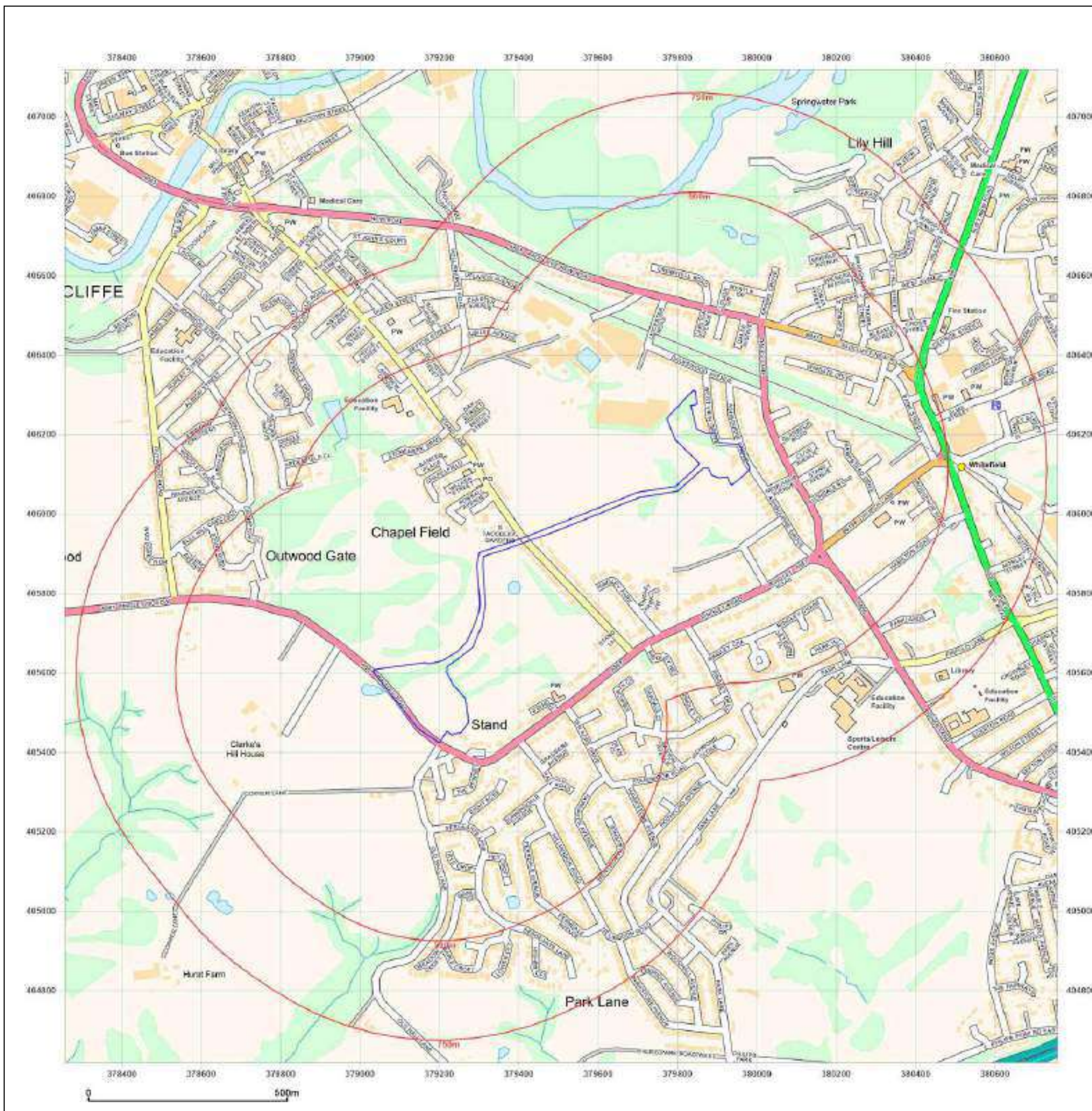


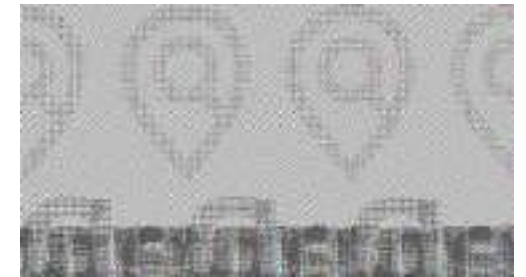
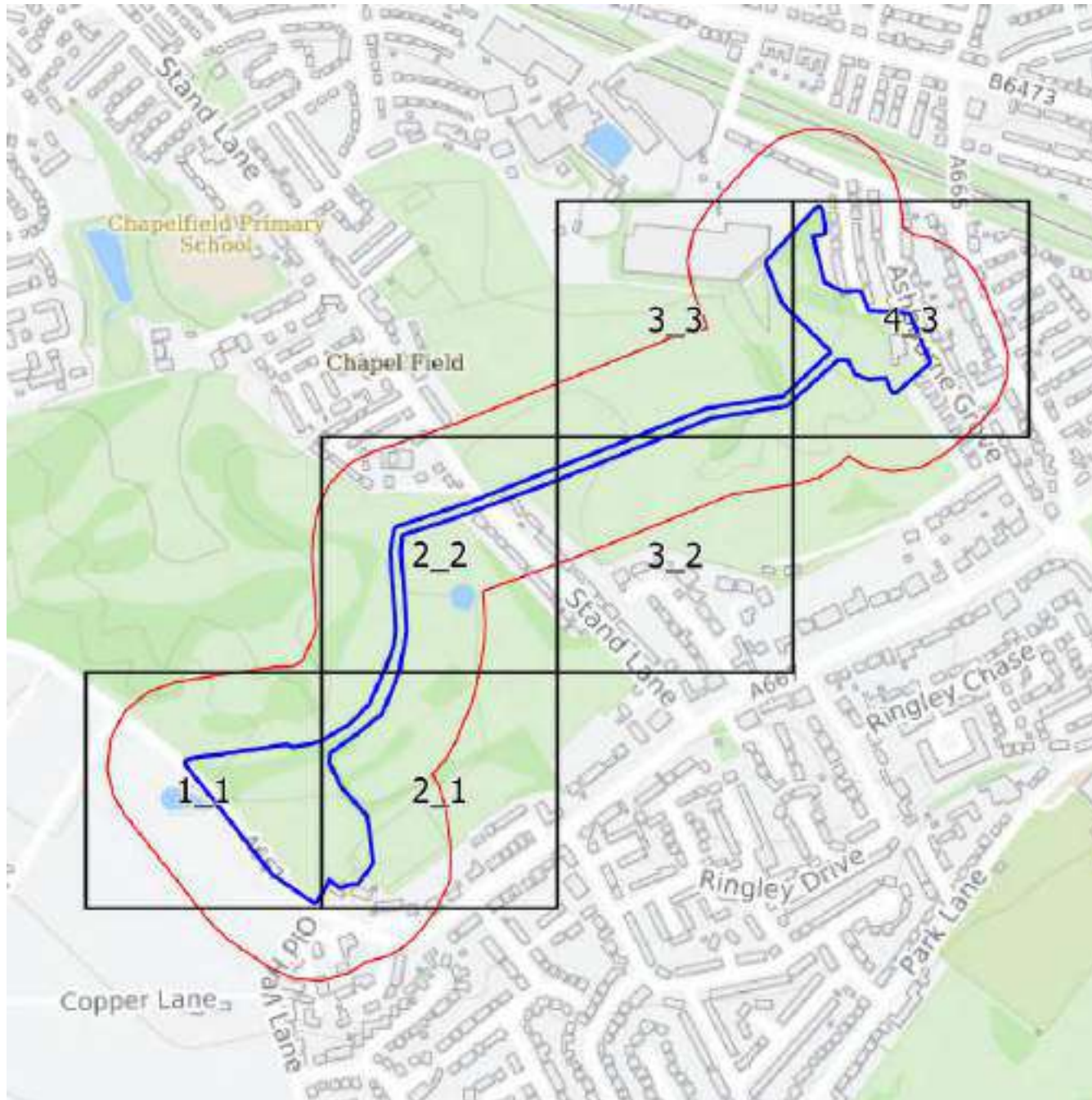
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Landline Scale Grid Index



Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_Landline_2_1
Grid Ref: 379357, 405569

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

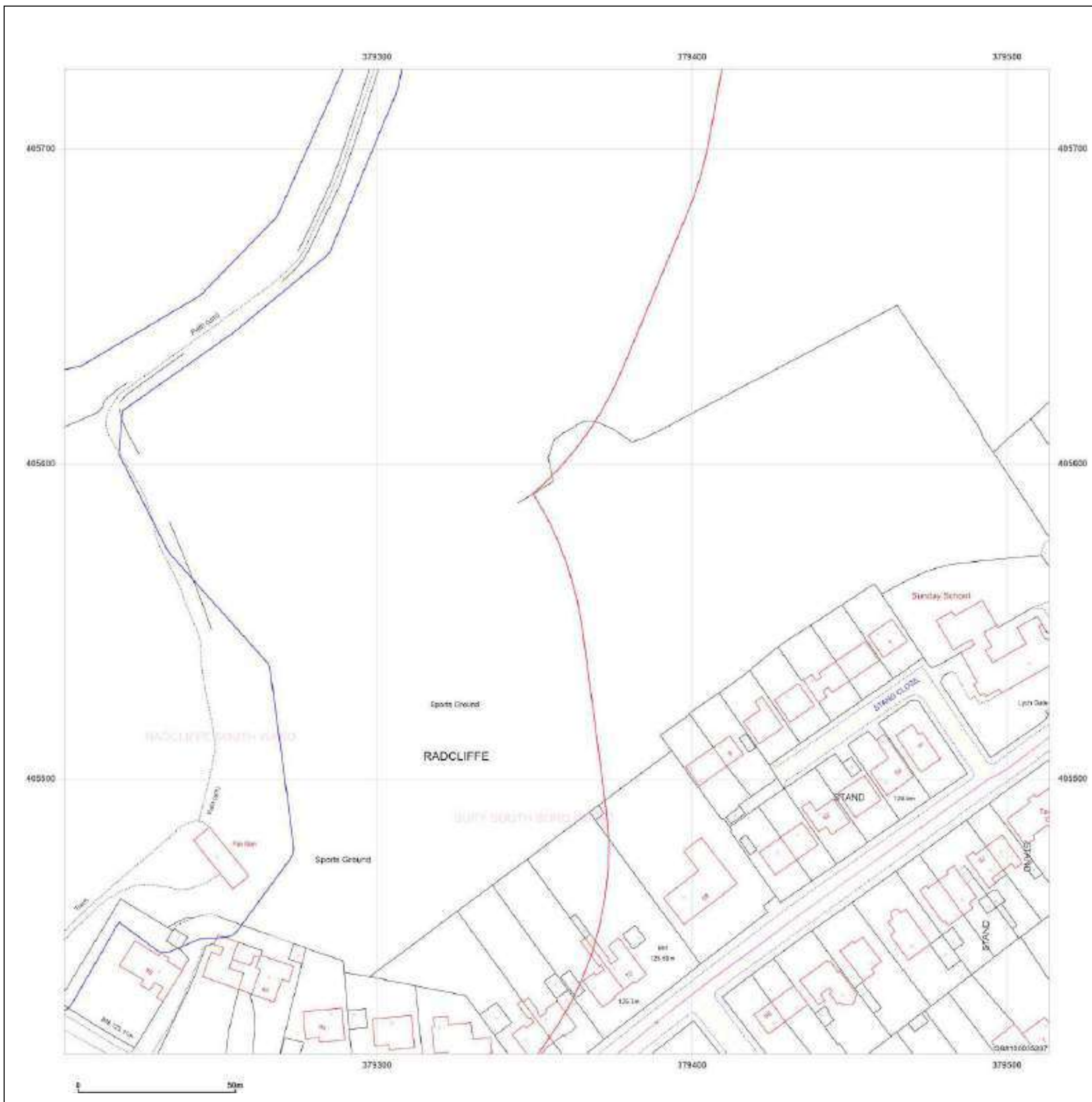


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_Landline_2_2
Grid Ref: 379357, 405869

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

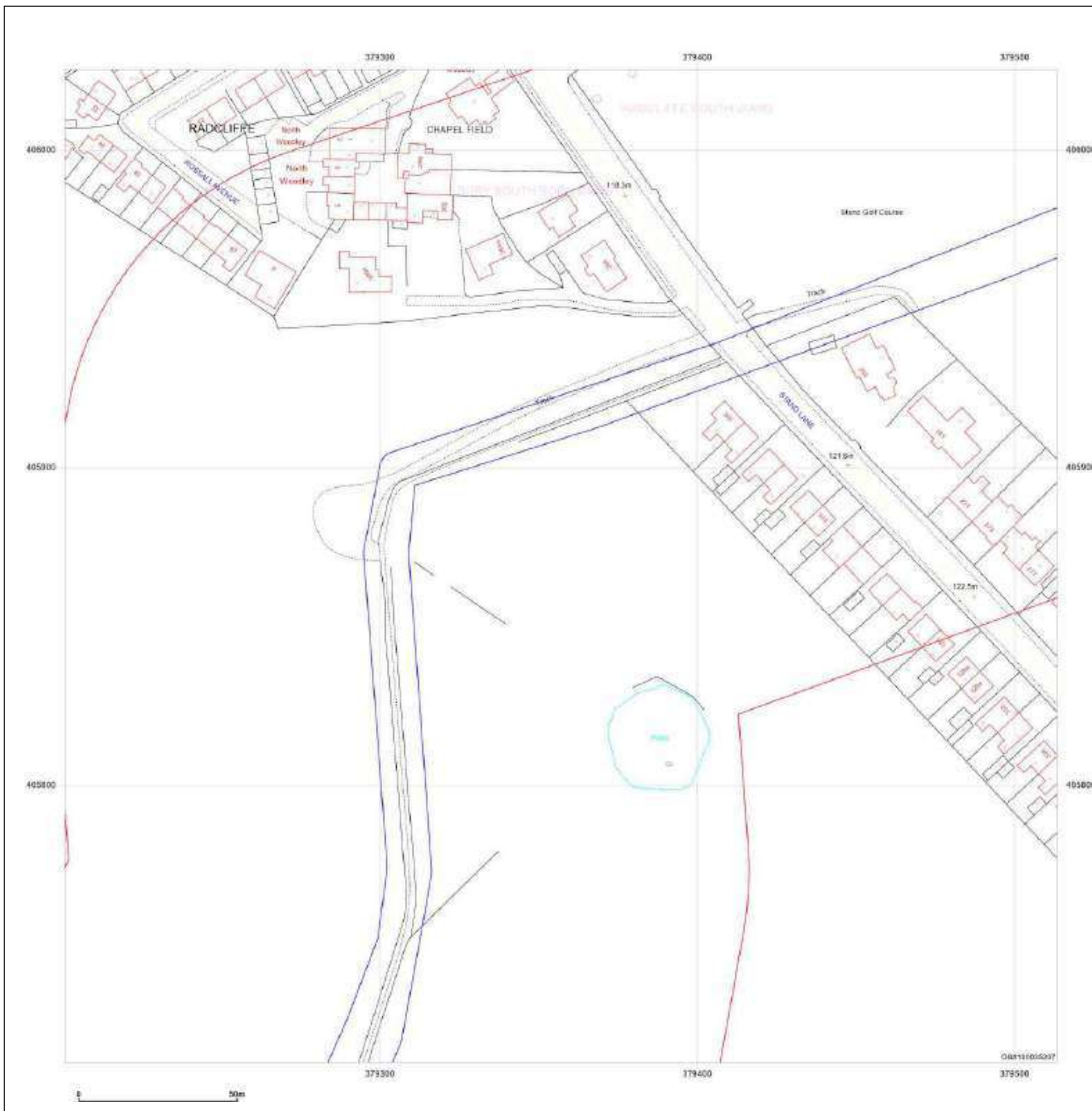


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_Landline_3_3
Grid Ref: 379657, 406169

Map Name: LandLine

Map date: 2003

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Printed at: 1:1,250

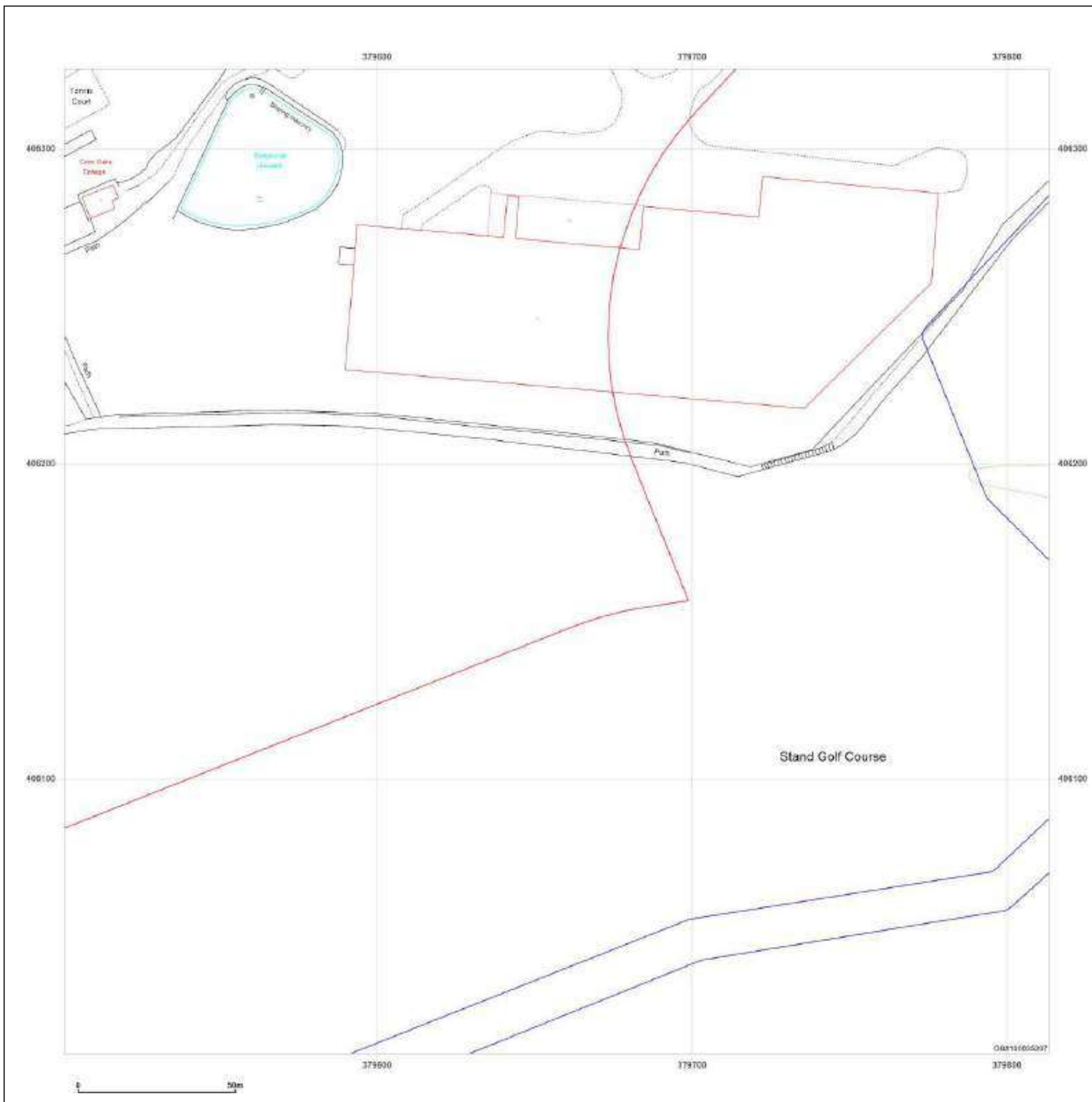


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_Landline_4_3
Grid Ref: 379957, 406169

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

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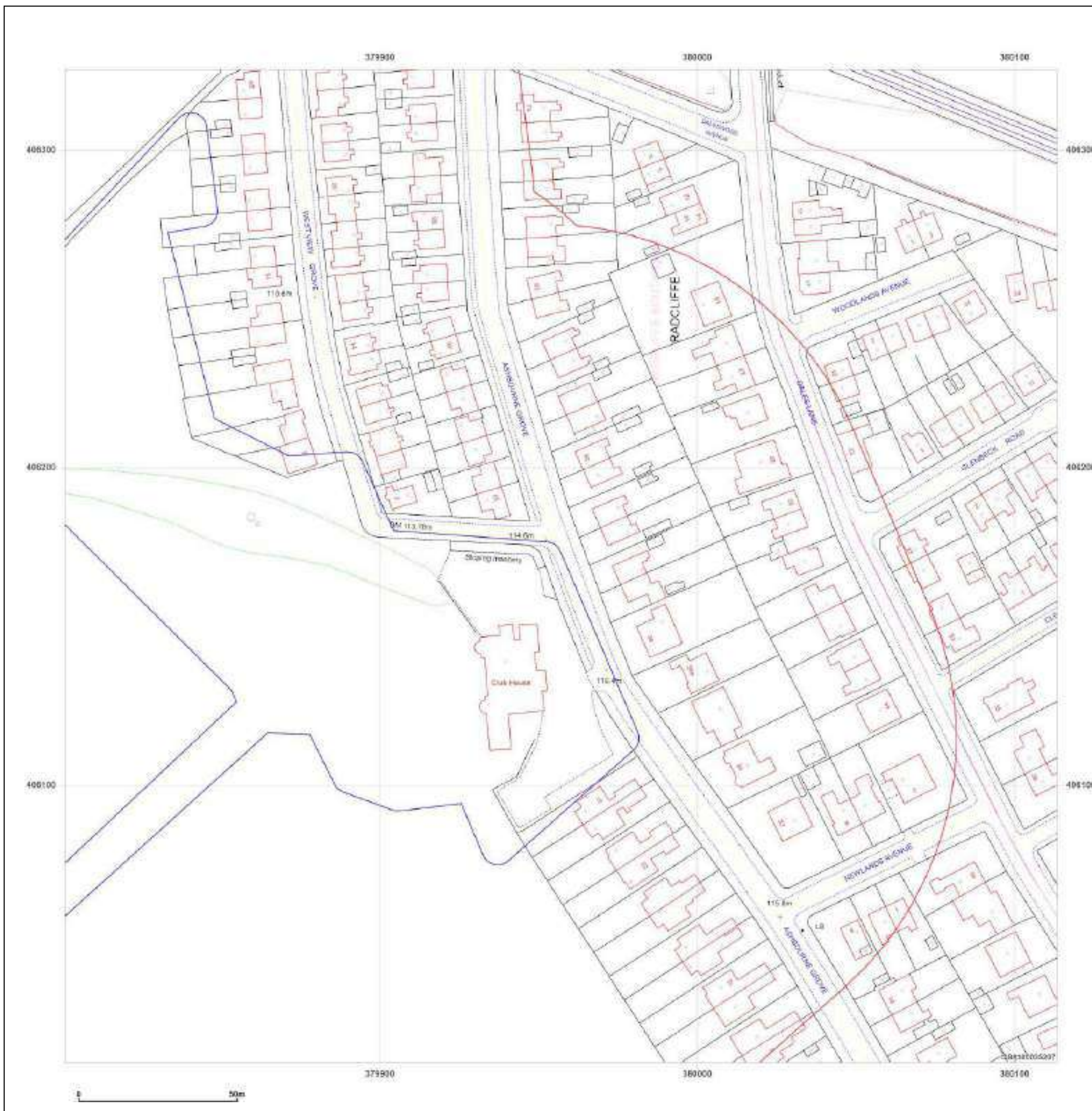


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_1_1
Grid Ref: 379007, 405369

Map Name: National Grid

Map date: 1955

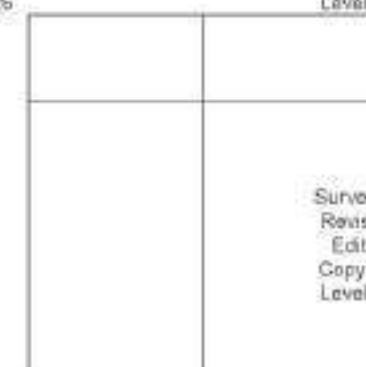
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Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
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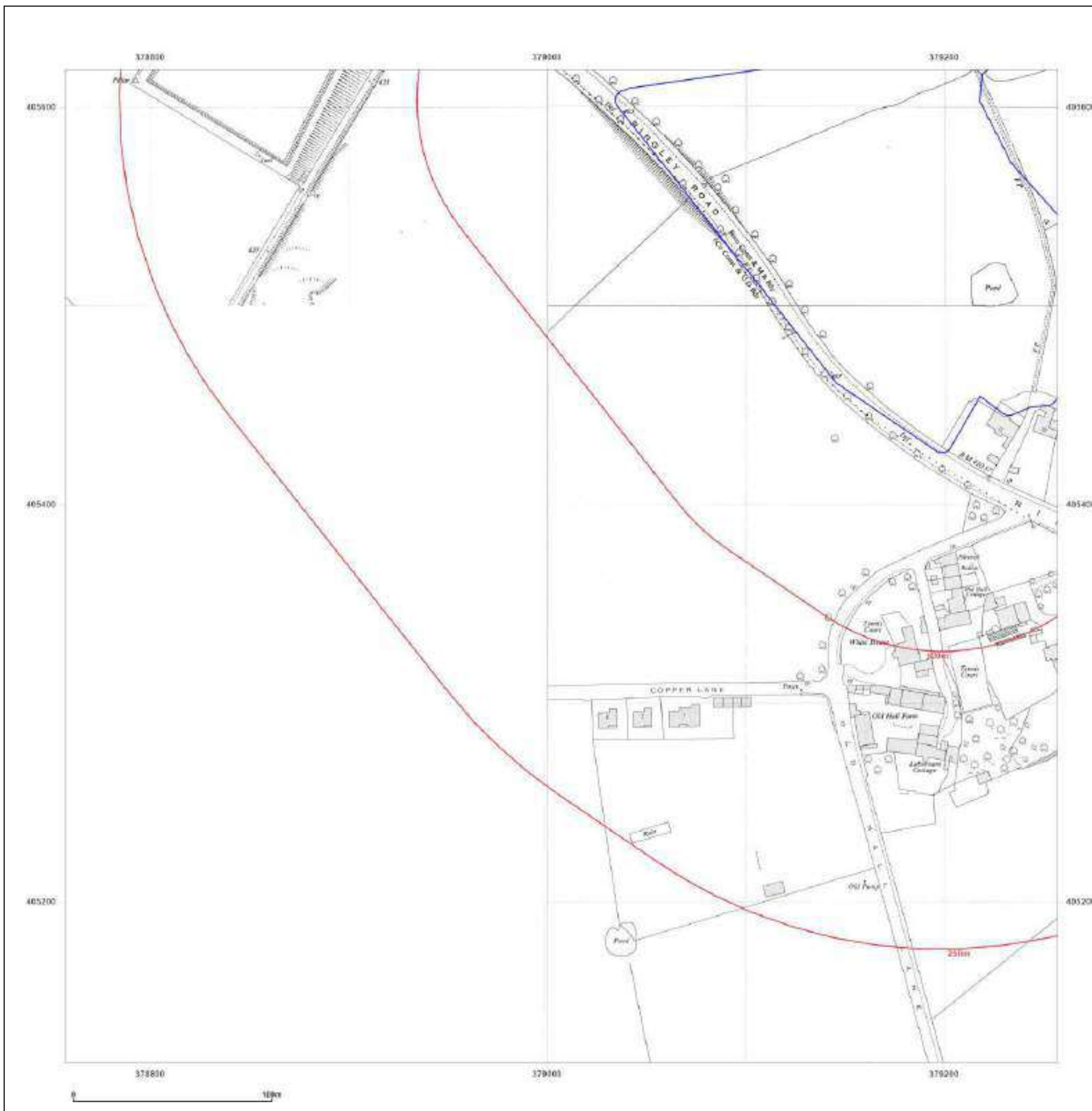


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_1_1
Grid Ref: 379007, 405369

Map Name: National Grid

Map date: 1956

Scale: 1:1,250

Printed at: 1:2,000



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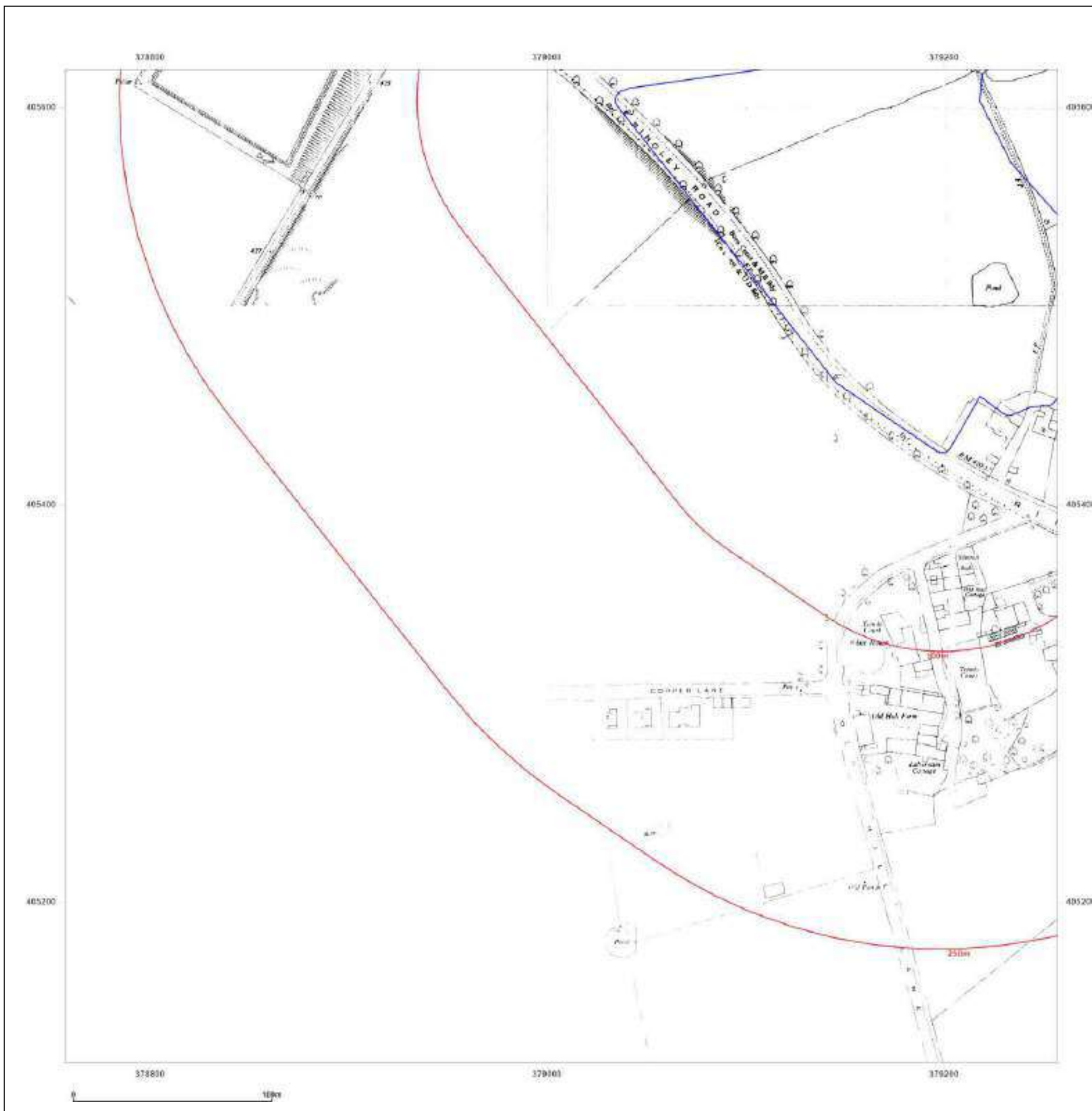


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_1_1
Grid Ref: 379007, 405369

Map Name: National Grid

Map date: 1987-1992

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1987
Edition N/A
Copyright 1987
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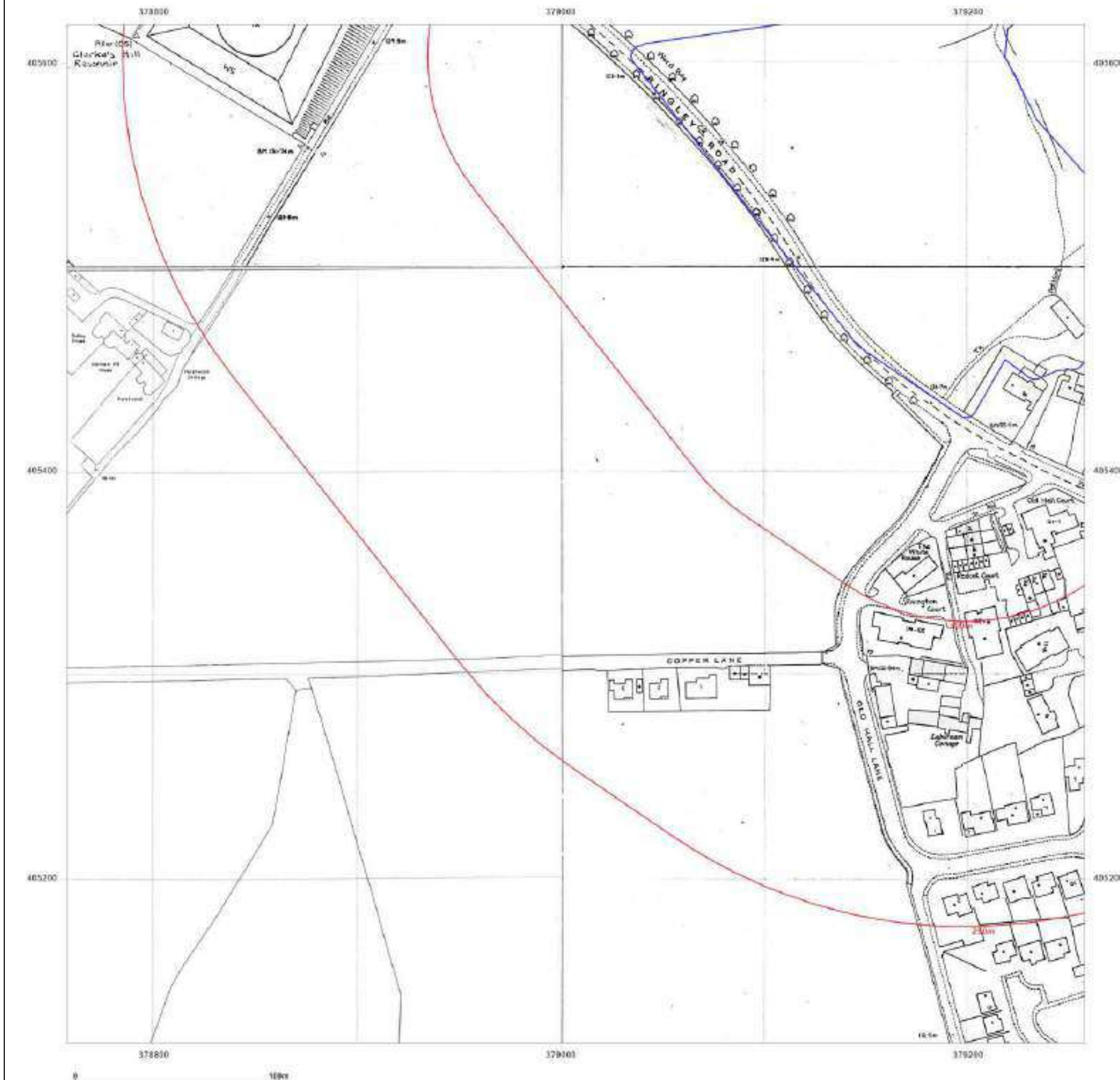


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_1_1
Grid Ref: 379007, 405369

Map Name: National Grid

Map date: 1990-1992

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Revised 1989
Edition N/A
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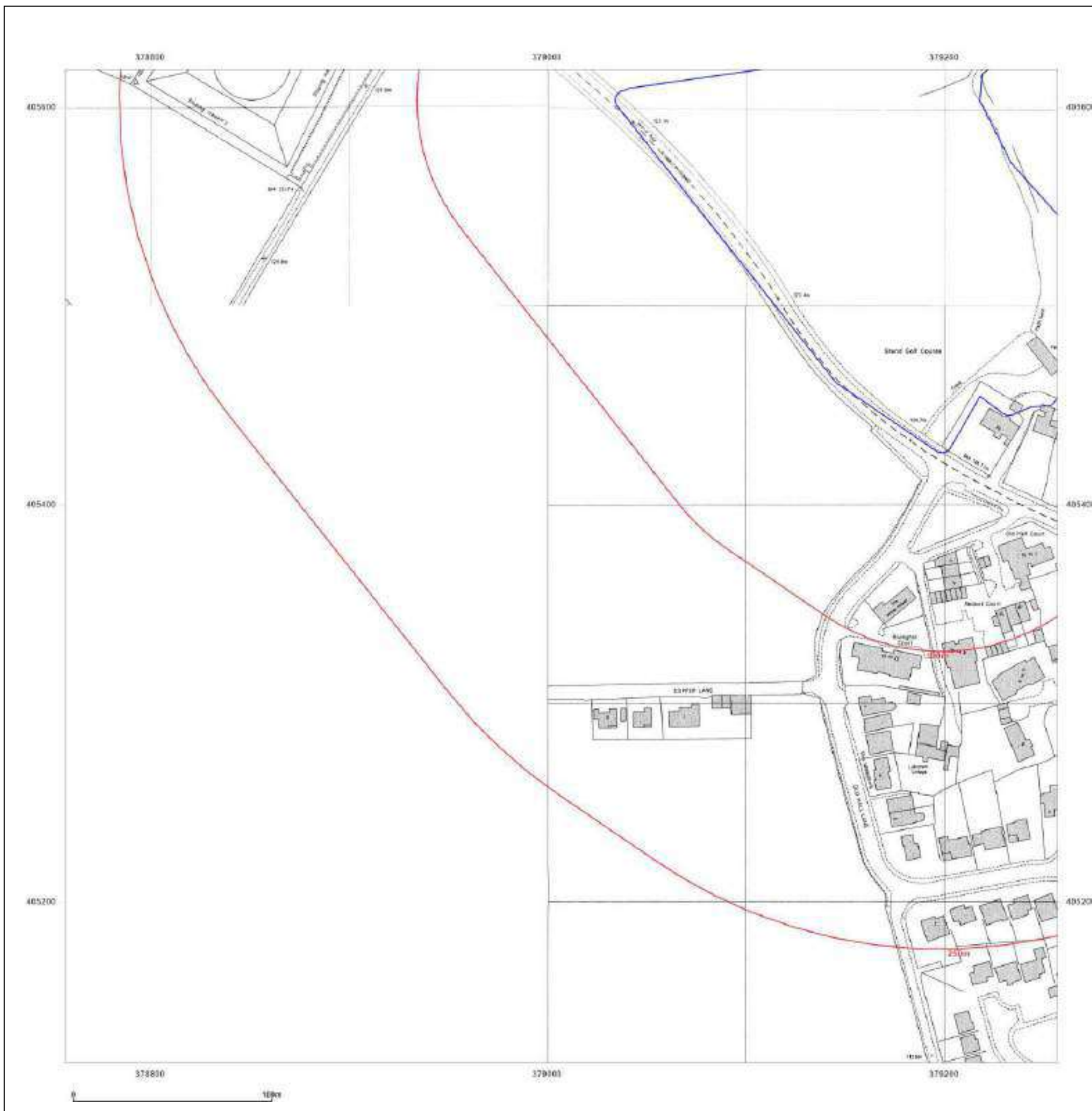


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Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_1_1
Grid Ref: 379007, 405369

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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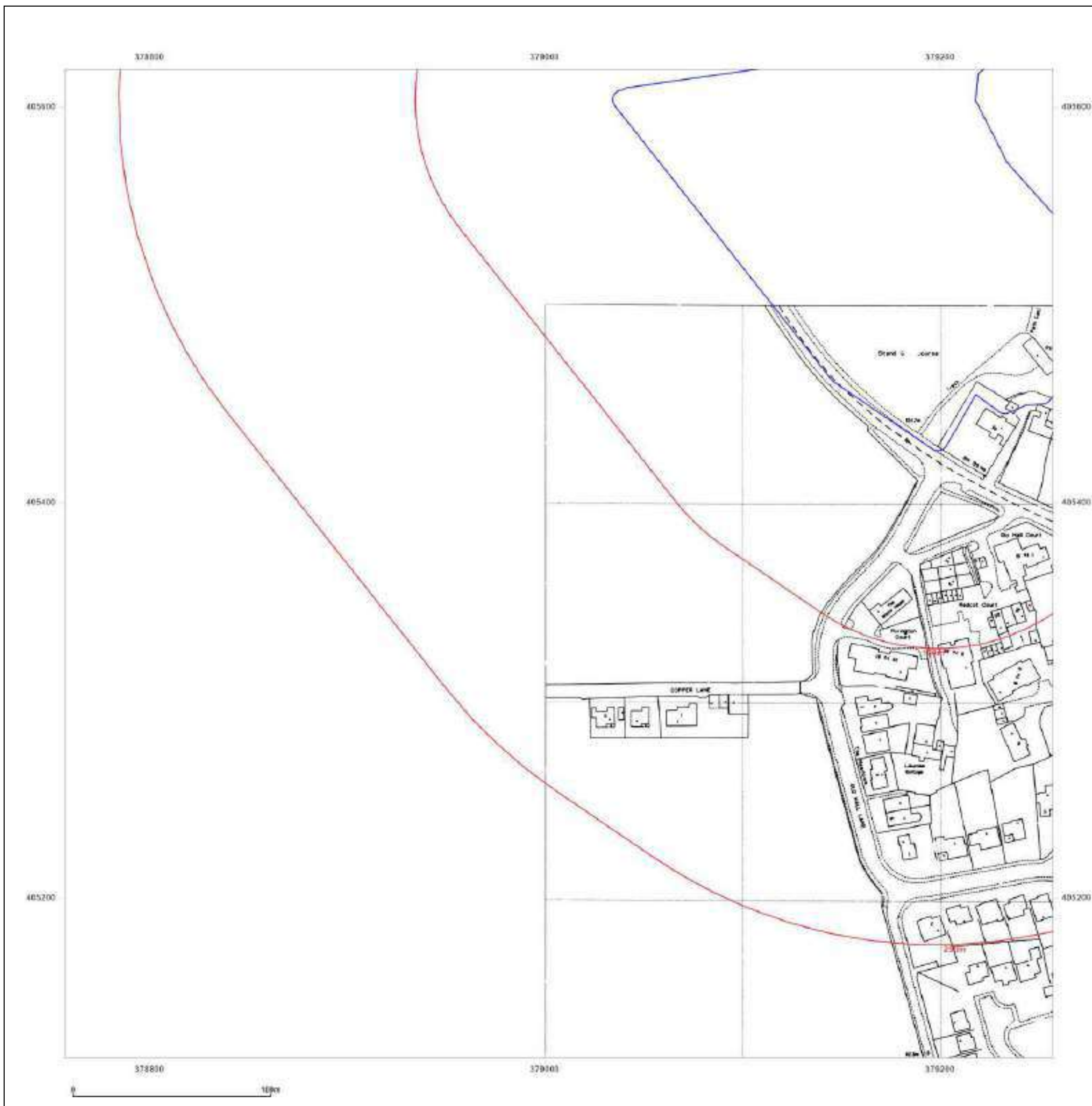


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_1_2
Grid Ref: 379007, 405869

Map Name: National Grid

Map date: 1955

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
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Revised 1955
Edition N/A
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Levelled 1928

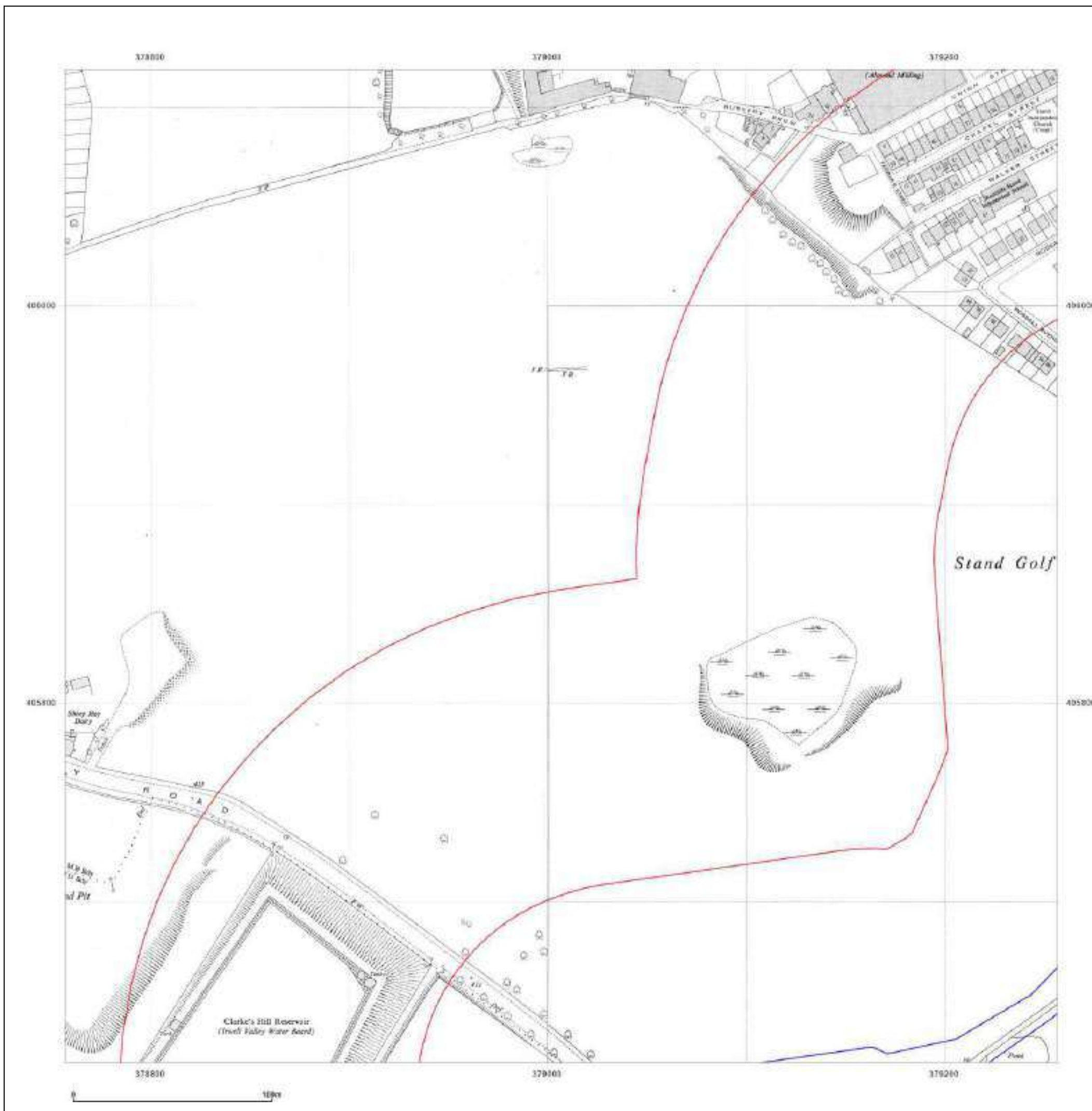


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_1_2
Grid Ref: 379007, 405869

Map Name: National Grid

Map date: 1956-1957

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1955
Revised N/A
Edition N/A
Copyright 1956
Levelled 1927

Surveyed 1955
Revised N/A
Edition N/A
Copyright 1956
Levelled 1928

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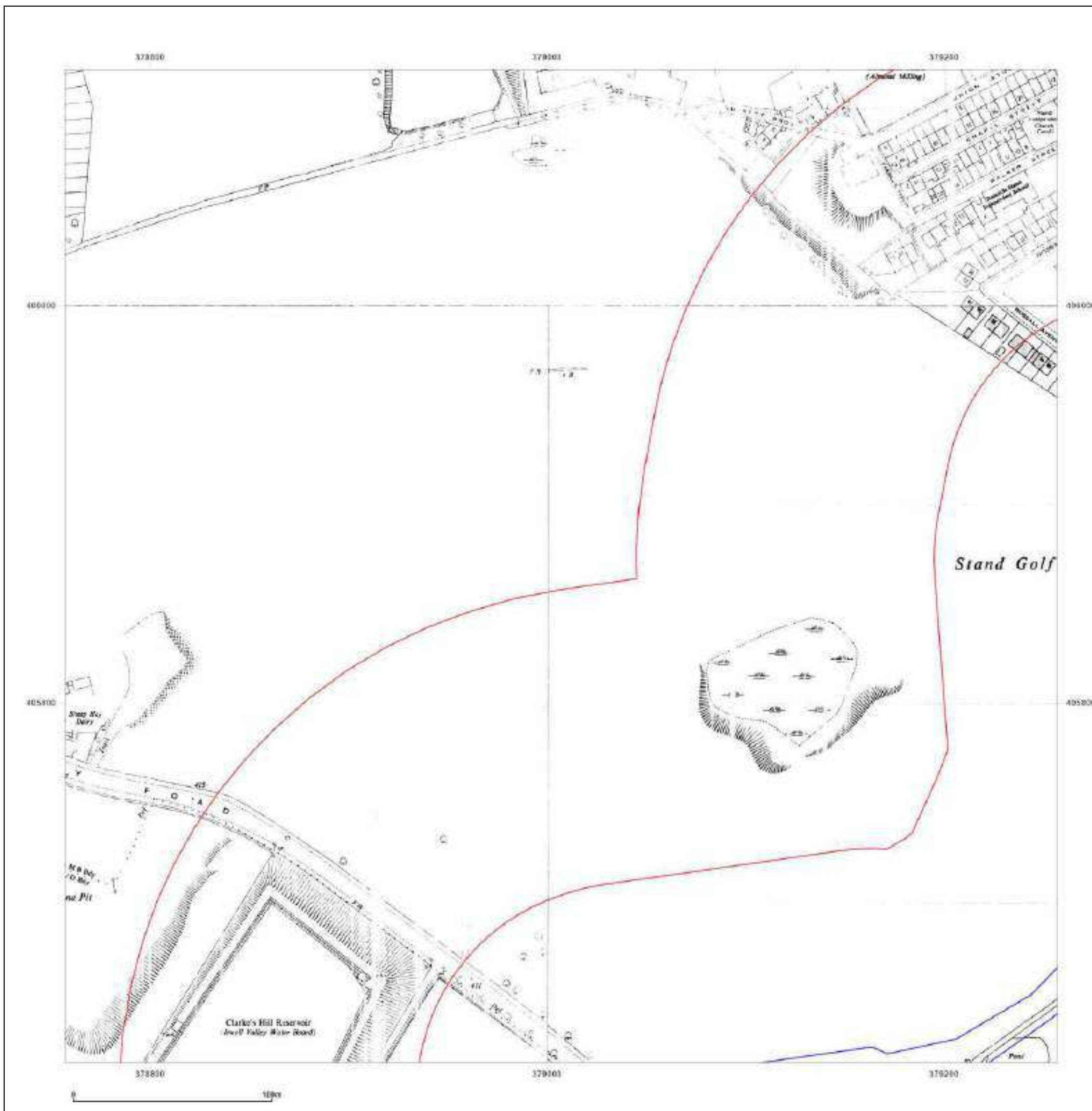


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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_1_2
Grid Ref: 379007, 405869

Map Name: National Grid

Map date: 1961

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1955
Revised 1960
Edition N/A
Copyright 1961
Levelled 1957

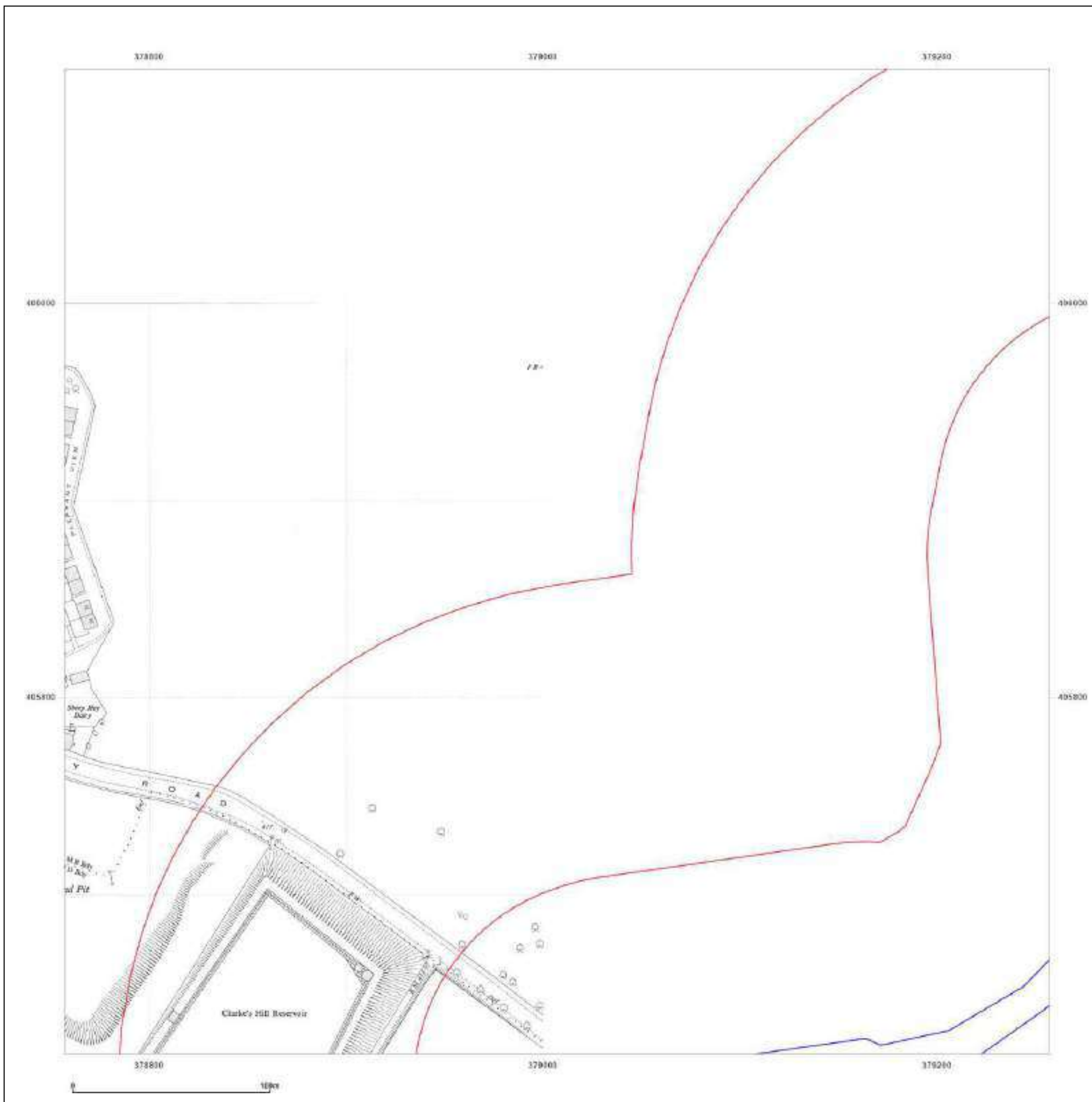


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Site Details:

STAND GOLF CLUB,
ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_1_2
Grid Ref: 379007, 405869

Map Name: National Grid

Map date: 1984-1988

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1962
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Levelled 1962

Surveyed 1962
Revised 1984
Edition N/A
Copyright 1984
Levelled 1962

Surveyed 1963
Revised 1986
Edition N/A
Copyright 1987
Levelled 1963

Surveyed 1962
Revised 1987
Edition N/A
Copyright 1987
Levelled 1962

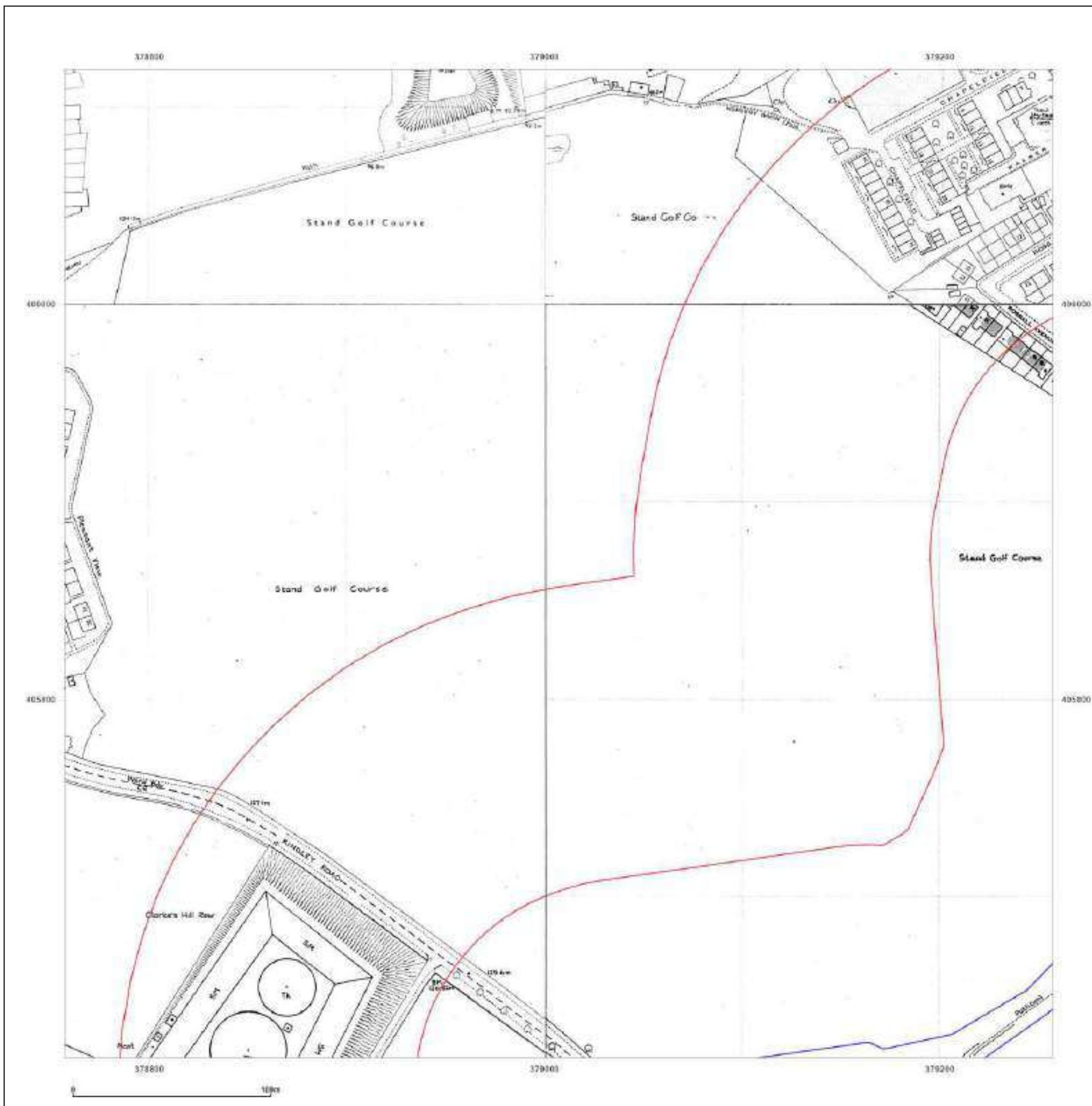


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Site Details:

STAND GOLF CLUB,
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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_1_2
Grid Ref: 379007, 405869

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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

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

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

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

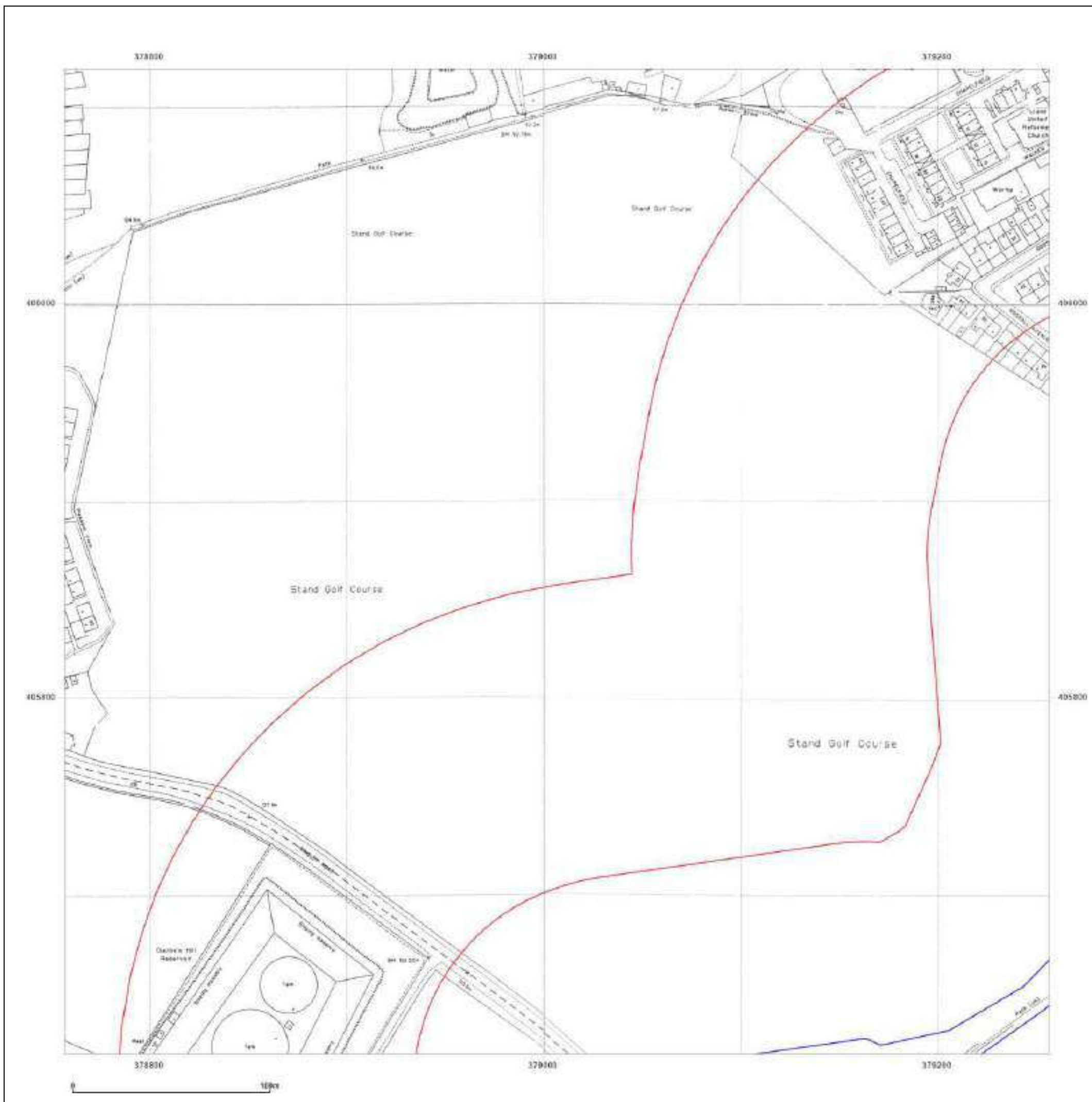


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Site Details:

STAND GOLF CLUB,
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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_1
Grid Ref: 379507, 405369

Map Name: National Grid

Map date: 1955-1956

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1955
Edition N/A
Copyright N/A
Levelled 1927

Surveyed 1955
Revised N/A
Edition N/A
Copyright 1956
Levelled 1928

Surveyed 1955
Revised 1955
Edition N/A
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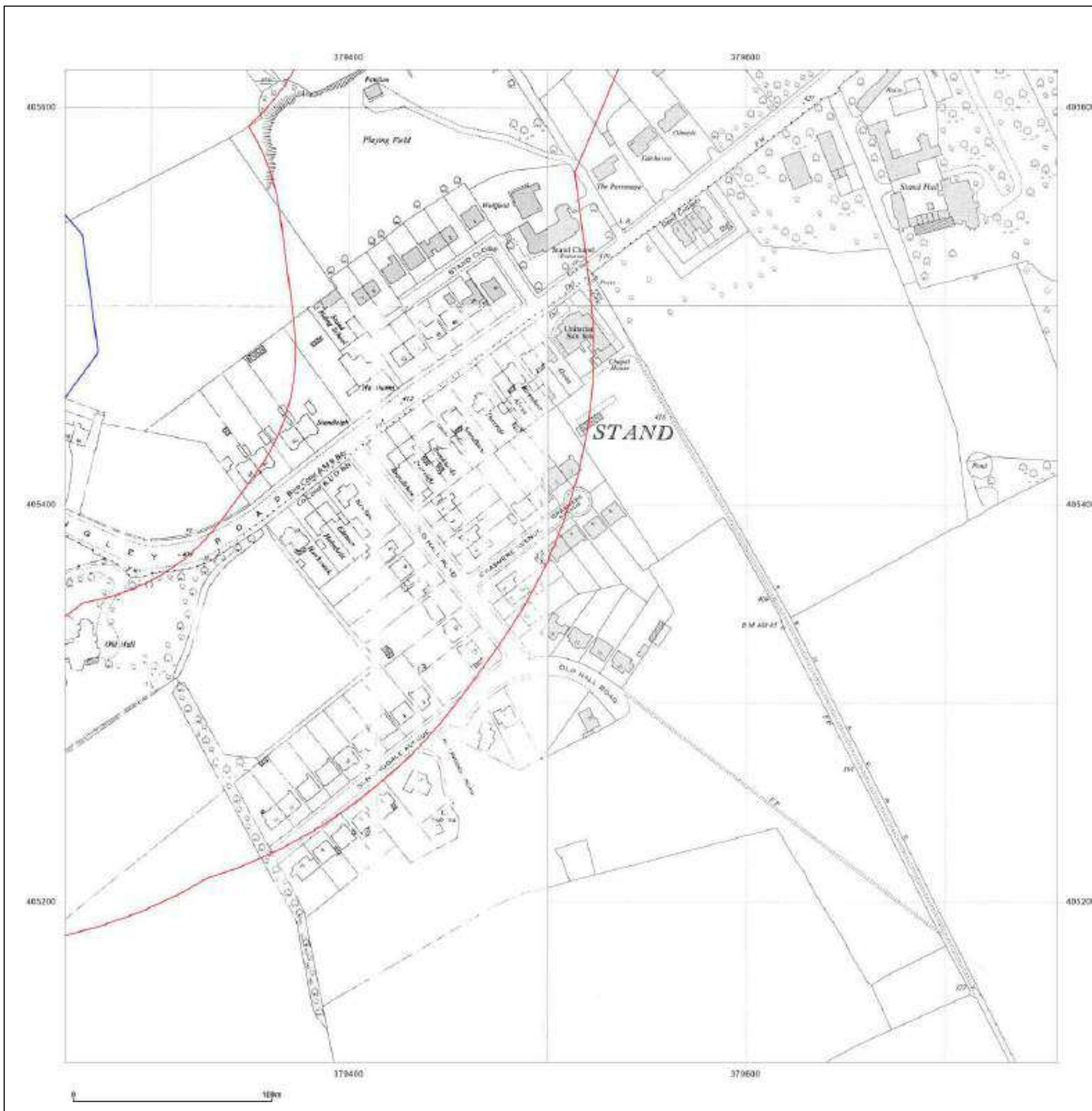


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_1
Grid Ref: 379507, 405369

Map Name: National Grid

Map date: 1955-1956

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
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Surveyed 1955
Revised N/A
Edition N/A
Copyright 1956
Levelled 1927

Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
Levelled 1928

Surveyed 1955
Revised N/A
Edition N/A
Copyright 1956
Levelled 1948

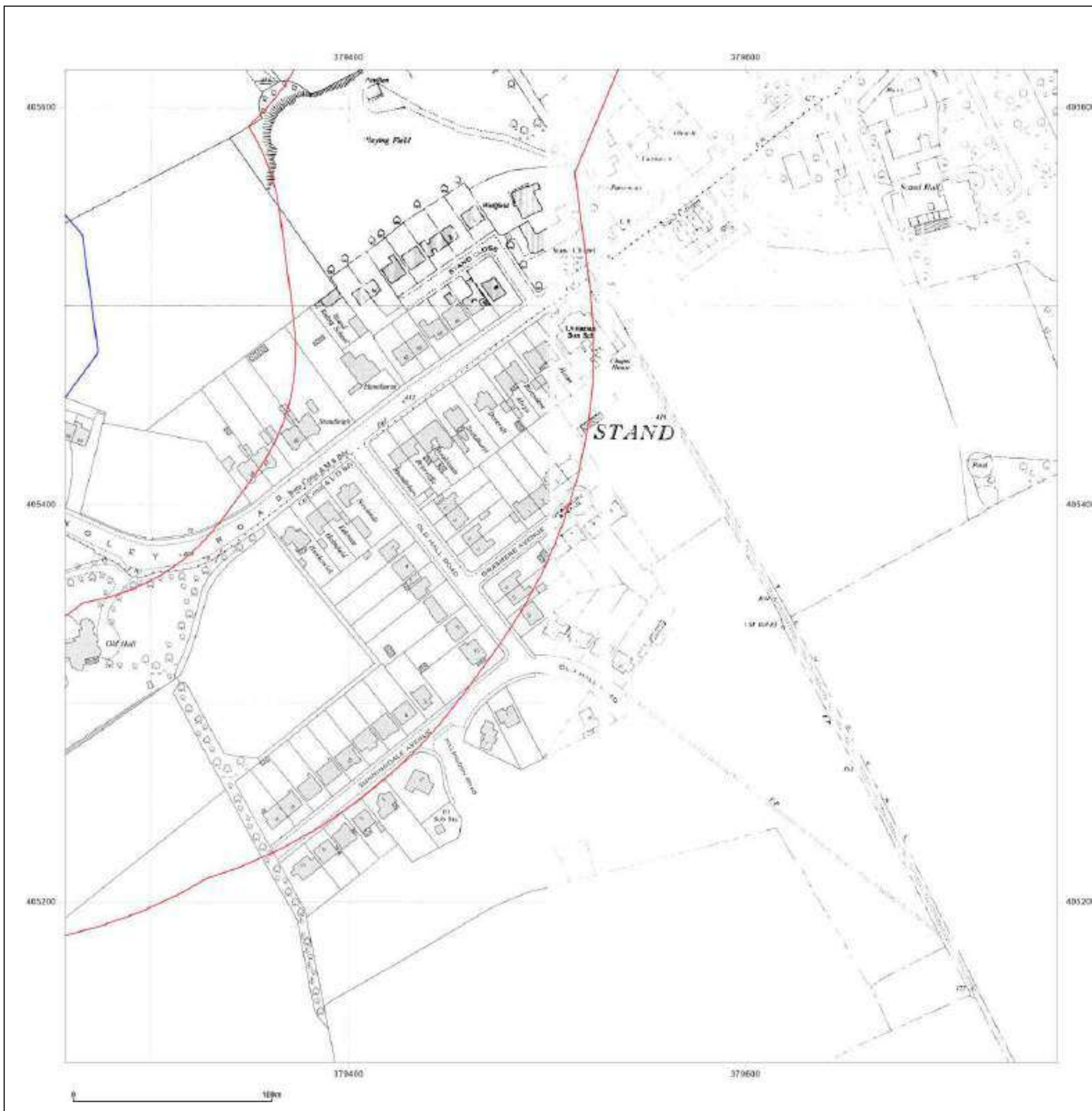


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_1
Grid Ref: 379507, 405369

Map Name: National Grid

Map date: 1967-1968

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
Copyright 1967
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Revised 1966
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Copyright 1967
Levelled 1963

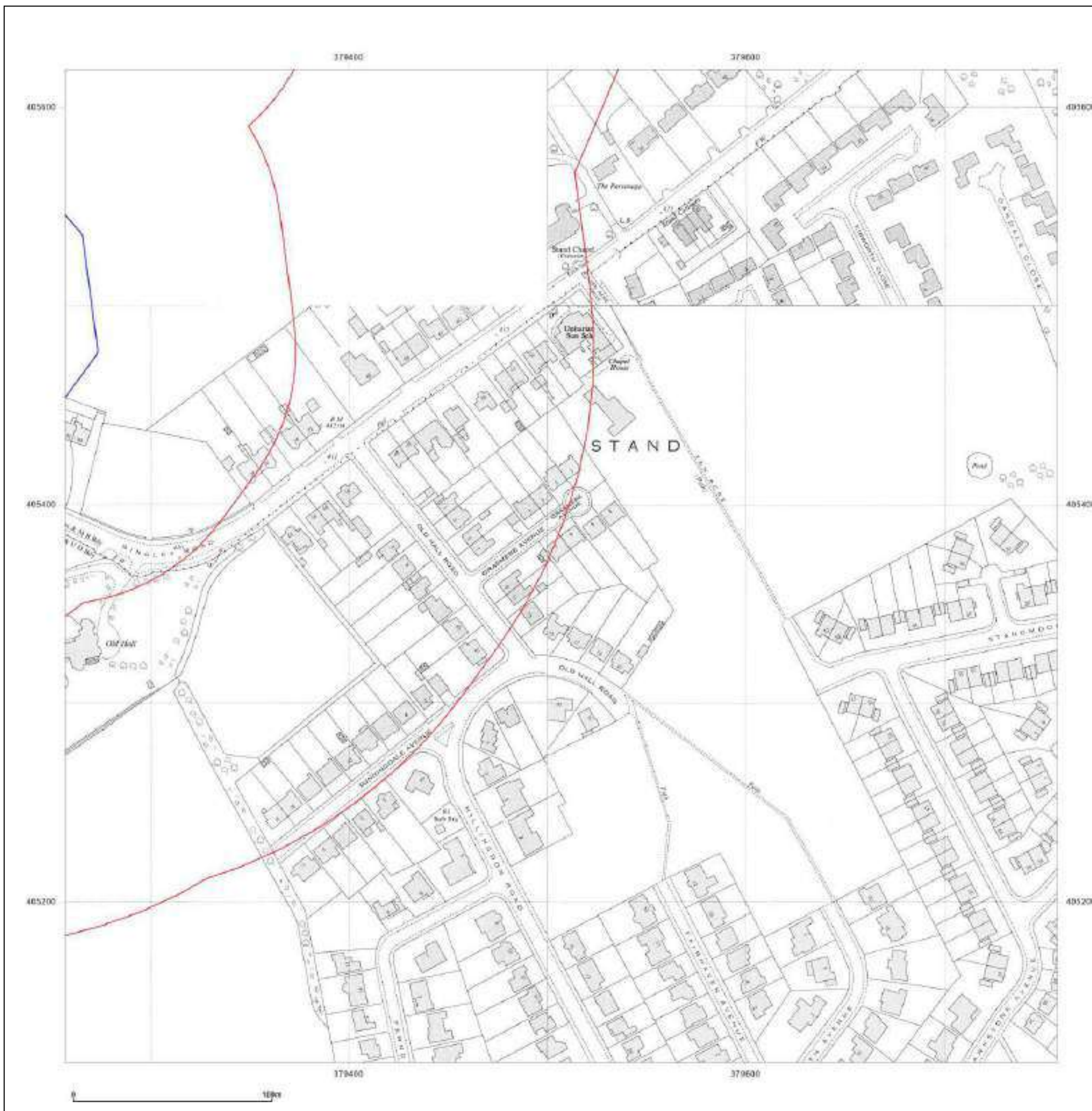


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RADCLIFFE, BURY, M45 7NL

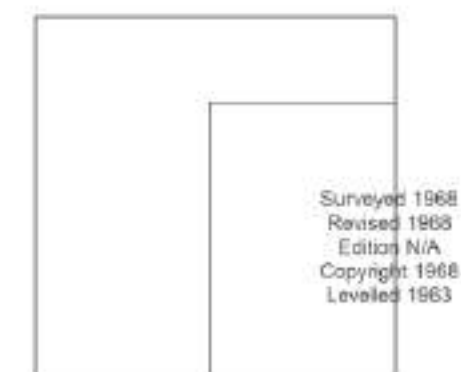
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Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_1
Grid Ref: 379507, 405369

Map Name: National Grid

Map date: 1968

Scale: 1:1,250

Printed at: 1:2,000

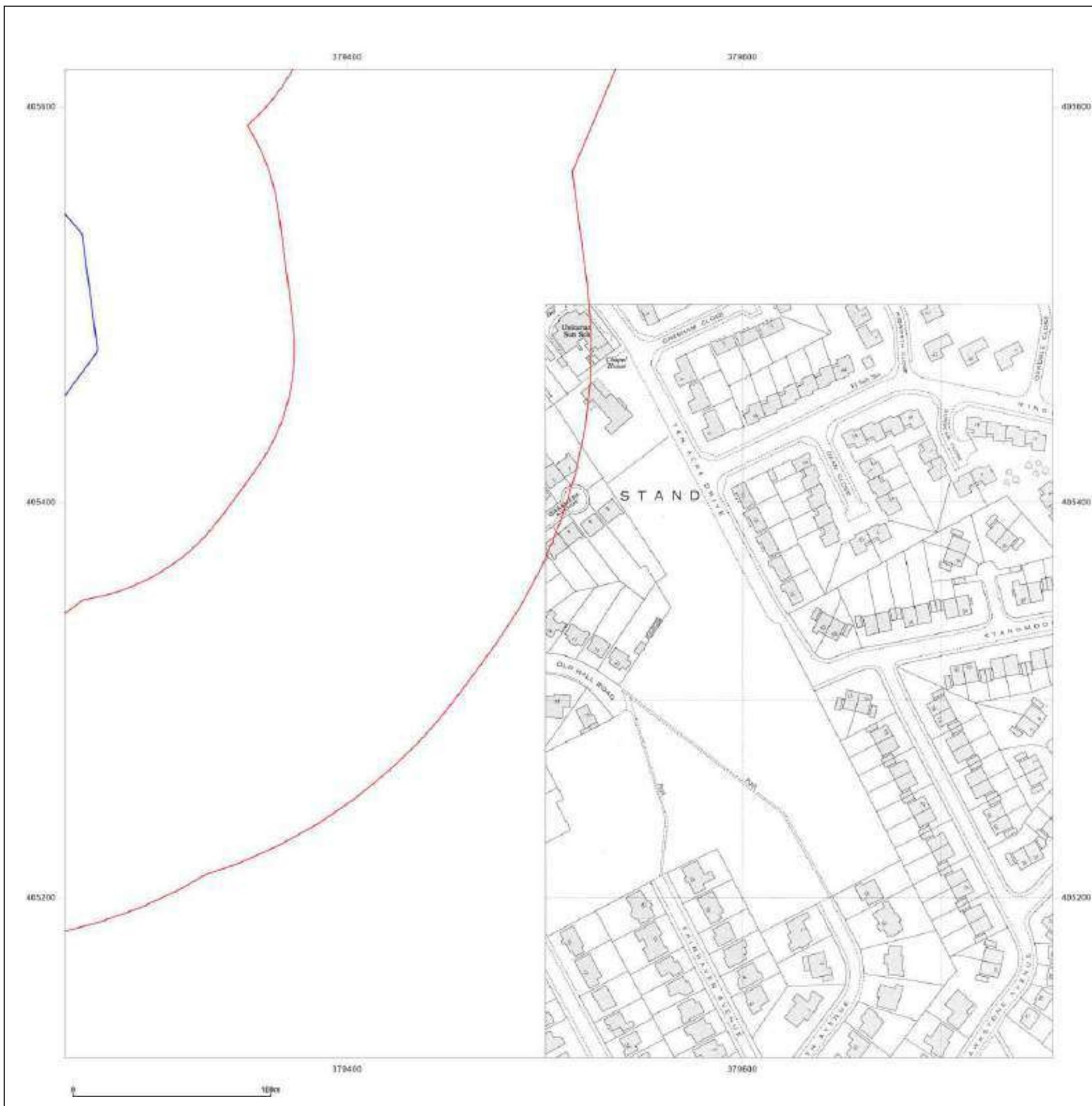


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_1
Grid Ref: 379507, 405369

Map Name: National Grid

Map date: 1978

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Leveled 1963

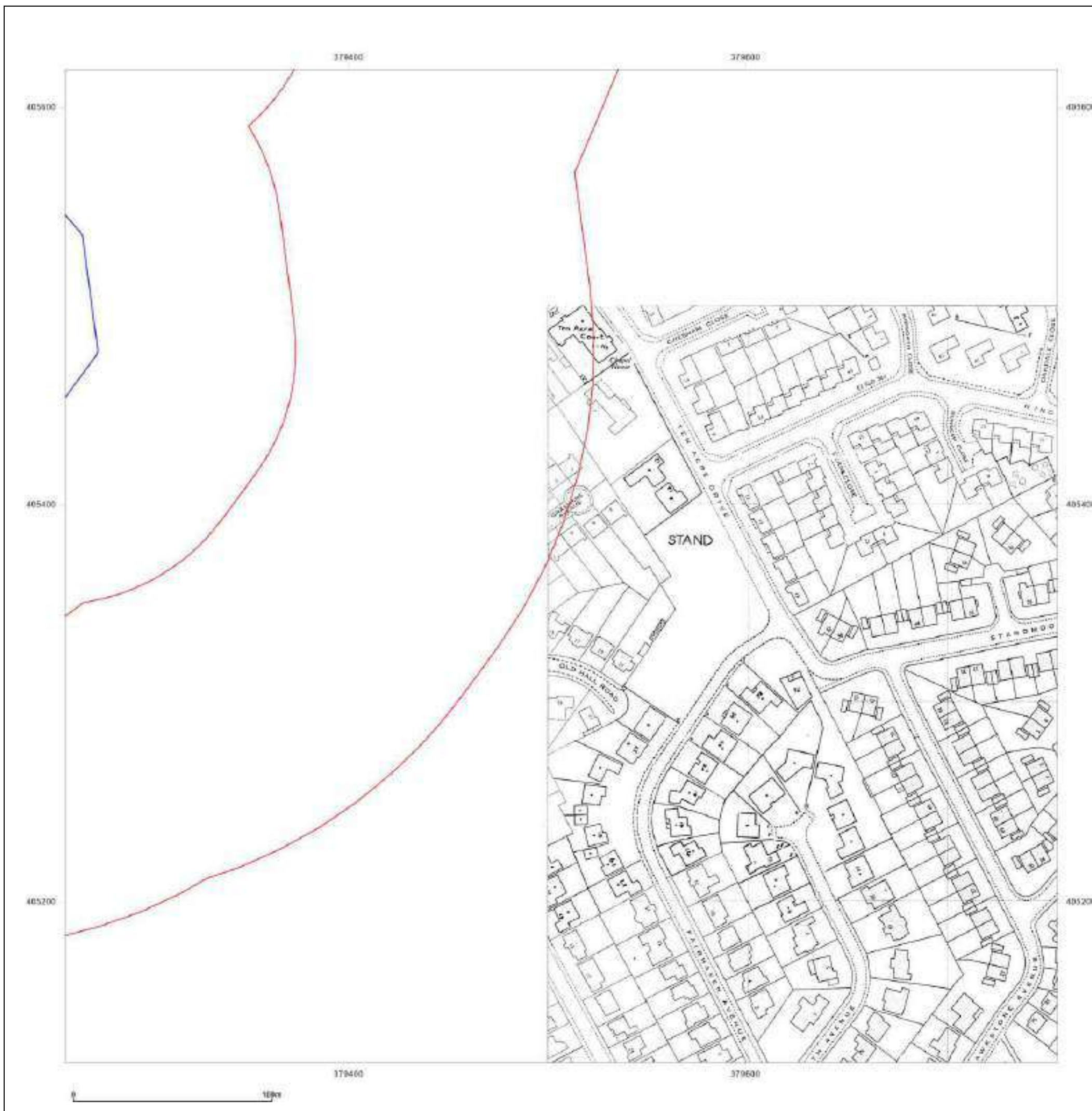


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_1
Grid Ref: 379507, 405369

Map Name: National Grid

Map date: 1987

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1987
Edition N/A
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Revised 1987
Edition N/A
Copyright 1987
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Revised 1987
Edition N/A
Copyright 1987
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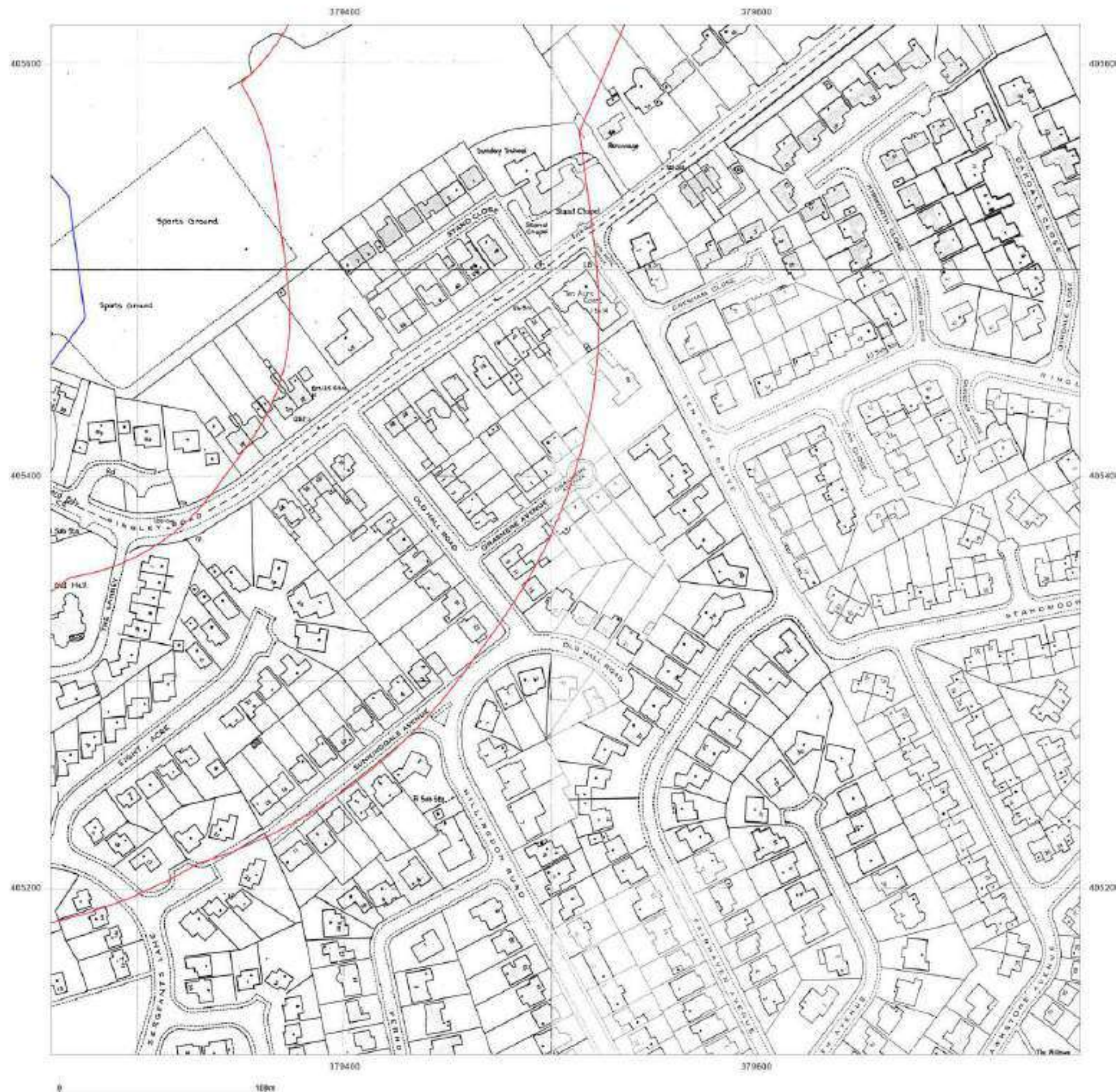


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_1
Grid Ref: 379507, 405369

Map Name: National Grid

Map date: 1989-1992

Scale: 1:1,250

Printed at: 1:2,000



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Levelled N/A

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Edition N/A
Copyright 1989
Levelled N/A

Surveyed 1989
Revised 1989
Edition N/A
Copyright 1990
Levelled N/A

Surveyed 1955
Revised 1988
Edition N/A
Copyright 1988
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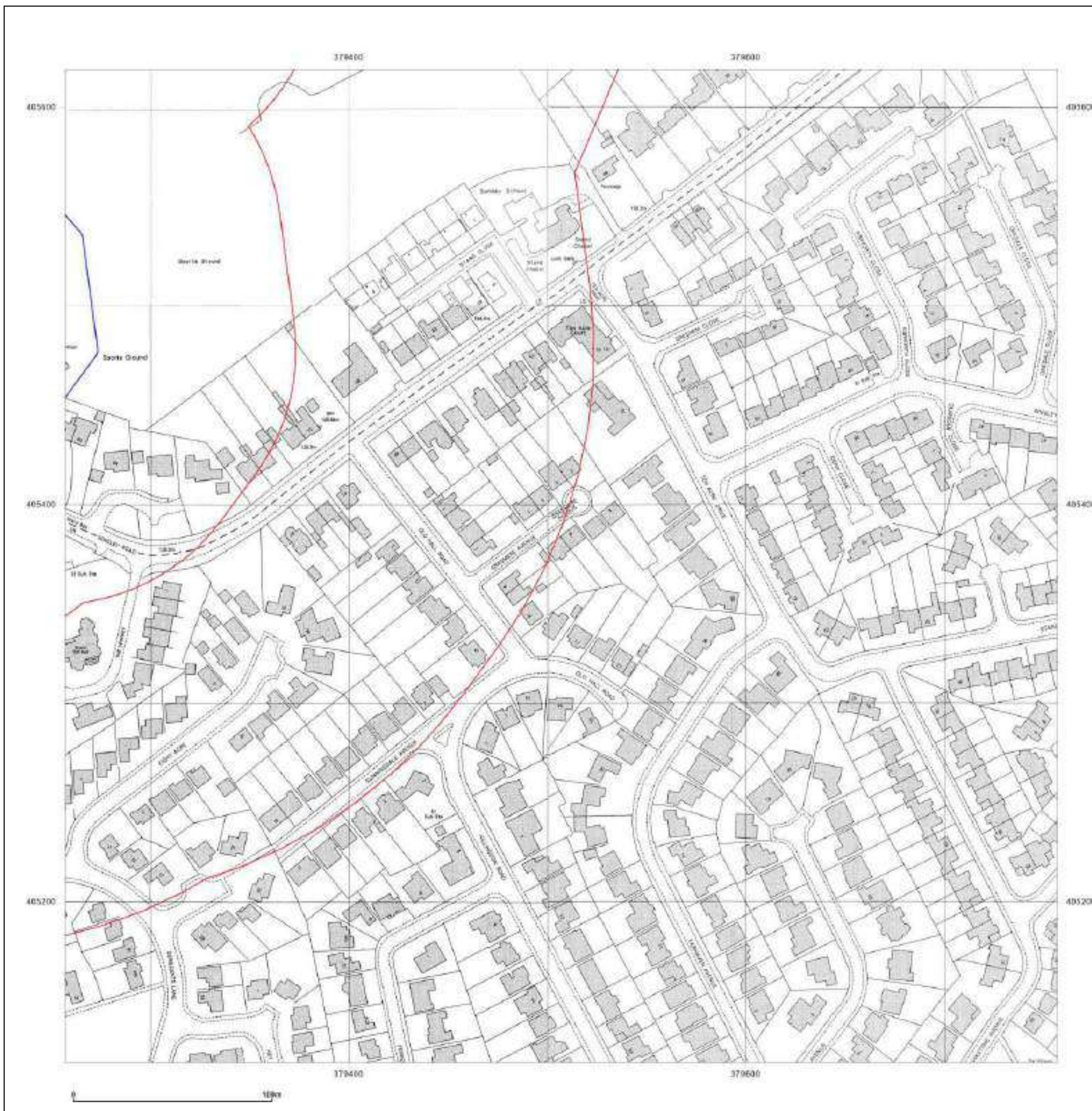


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_1
Grid Ref: 379507, 405369

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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Levelled N/A

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

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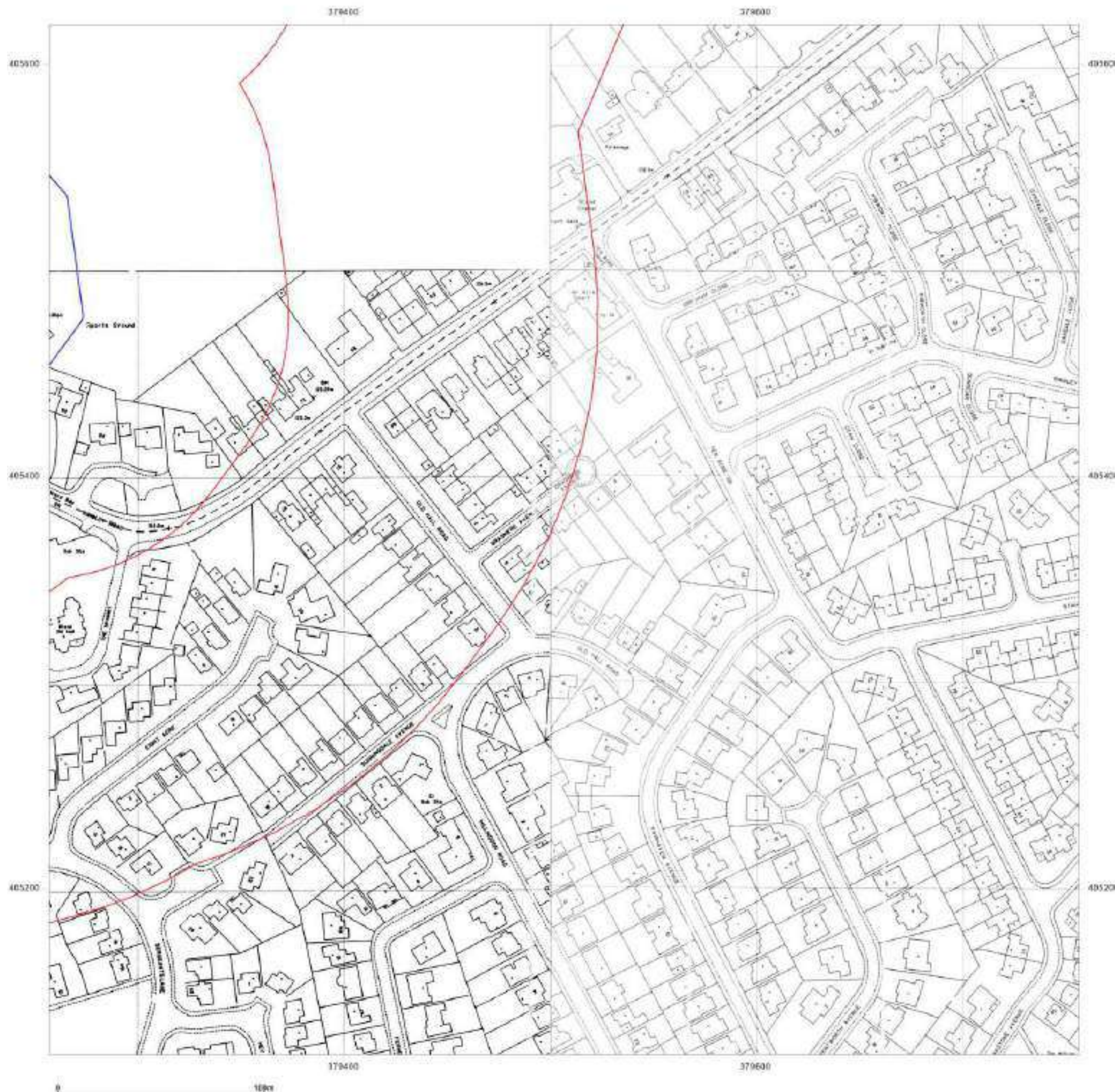


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_2
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 1955-1956

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1955
Edition N/A
Copyright N/A
Levelled 1927

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

Surveyed 1955
Revised 1955
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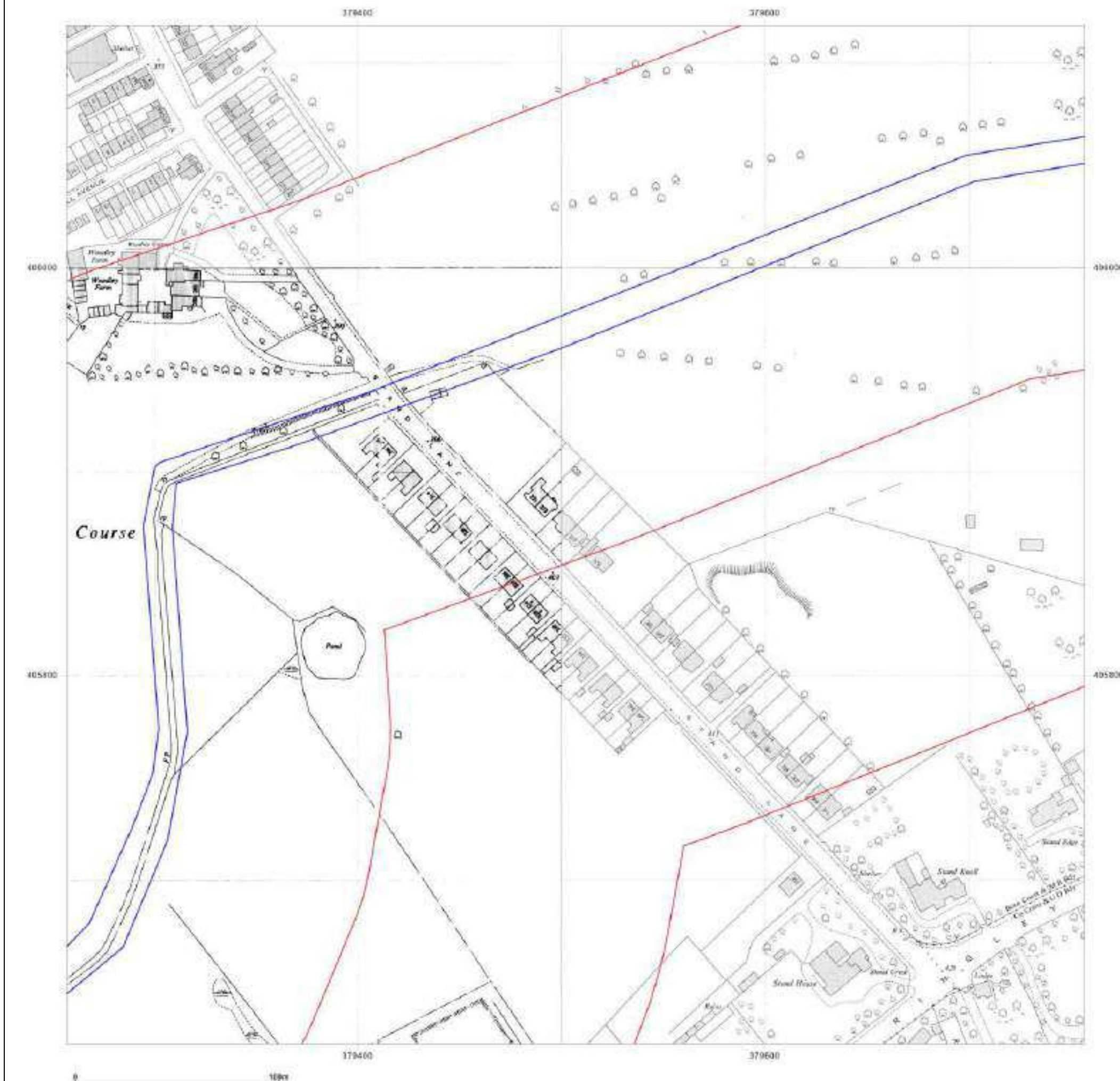


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_2
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 1955-1956

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1955
Edition N/A
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Revised N/A
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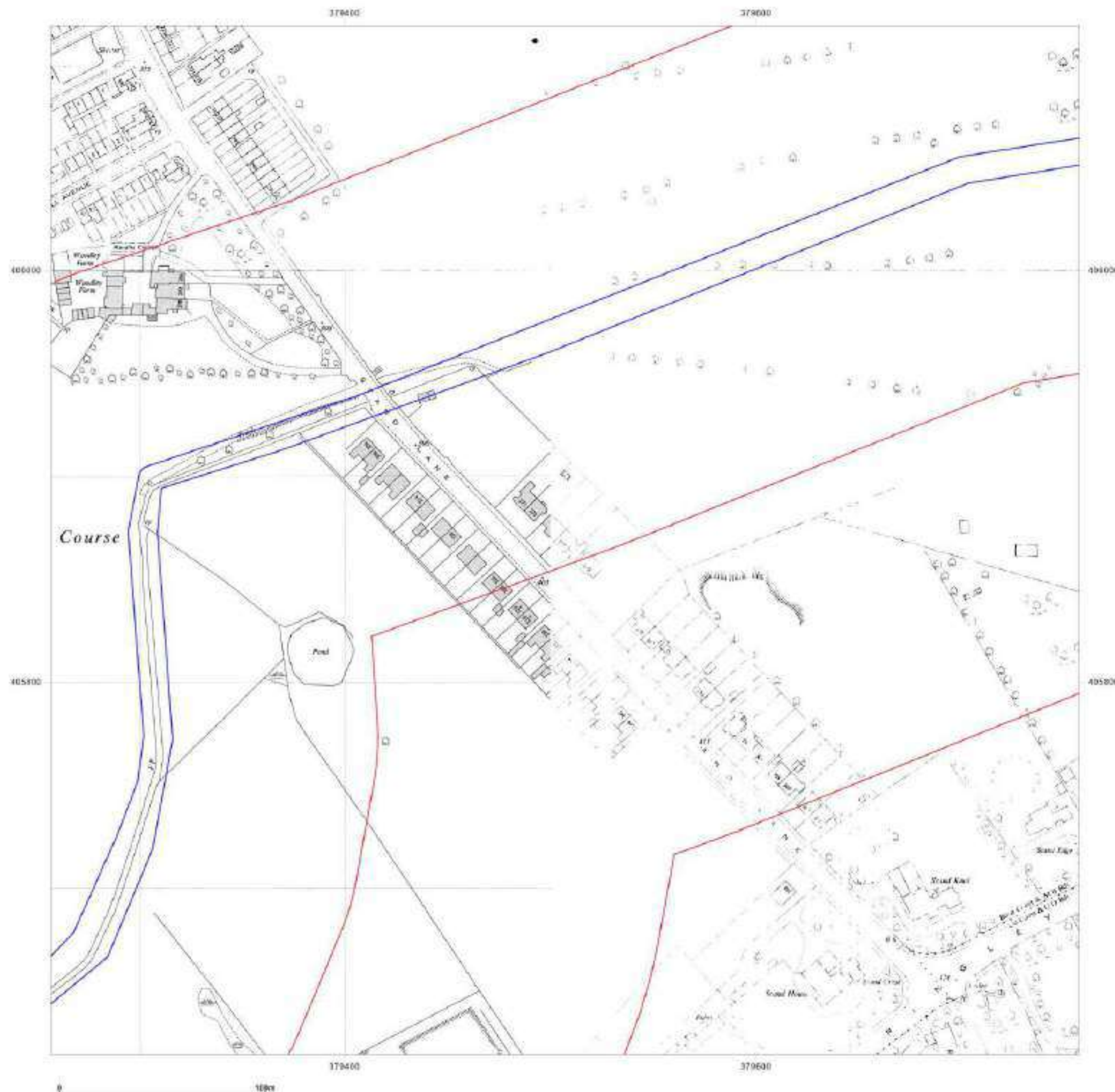


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_2
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 1984-1987

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1987
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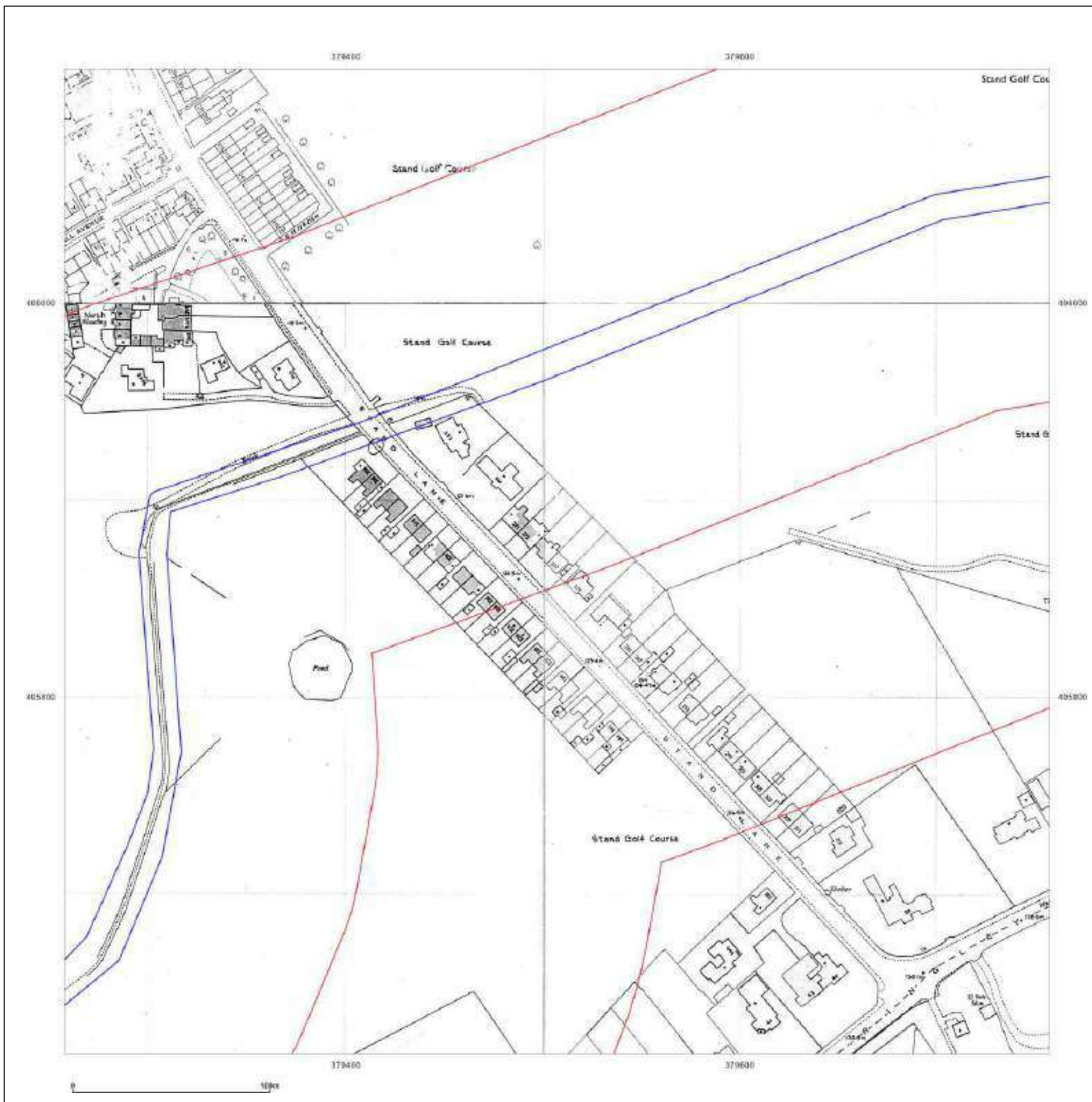


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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_2
Grid Ref: 379507, 405869

Map Name: National Grid

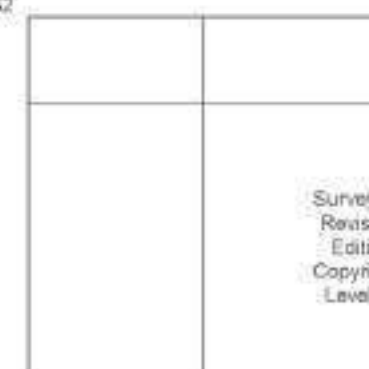
Map date: 1984-1989

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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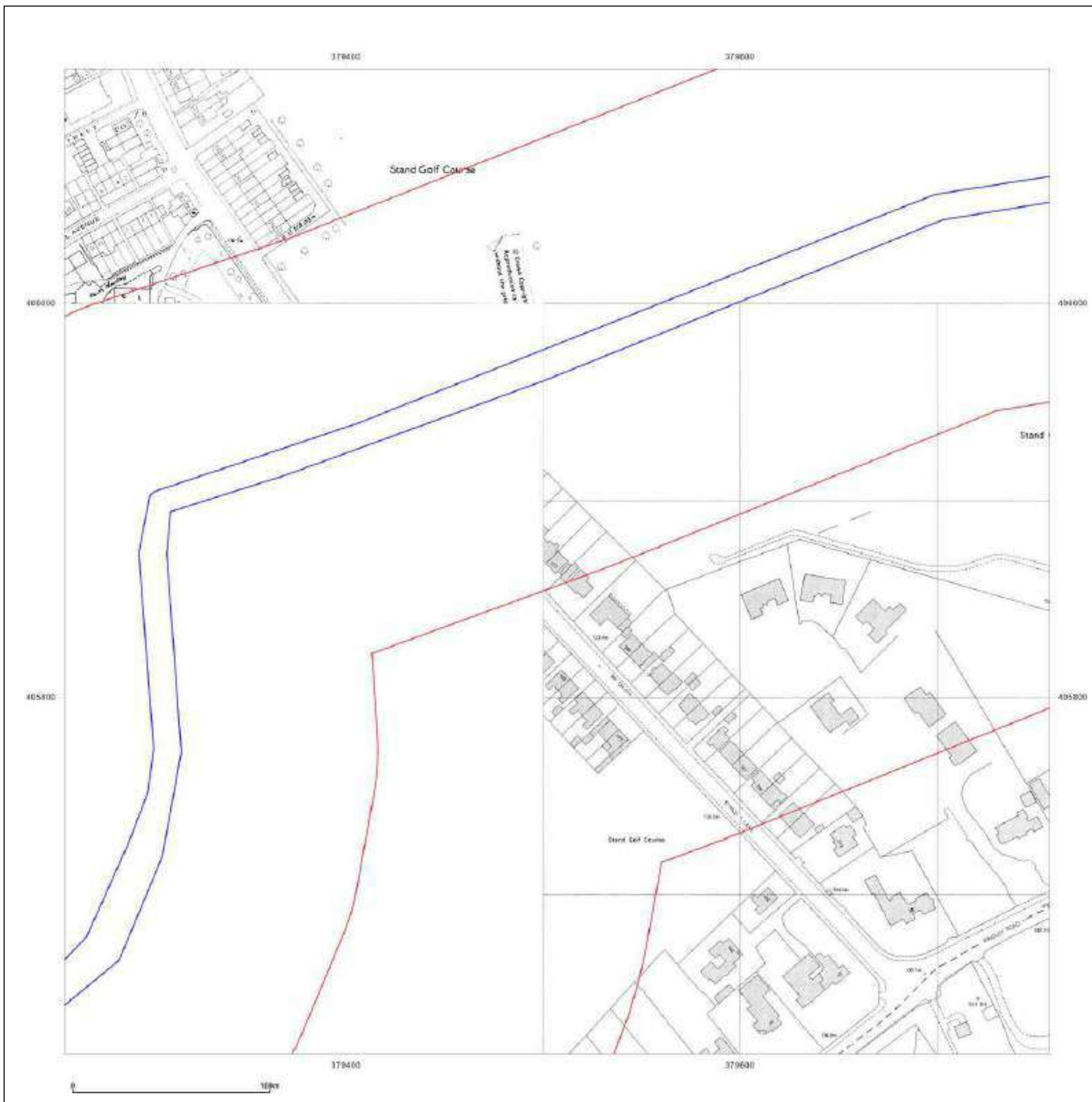


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Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_2
Grid Ref: 379507, 405869

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_3
Grid Ref: 379507, 406369

Map Name: National Grid

Map date: 1955

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1955
Edition N/A
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Levelled 1927

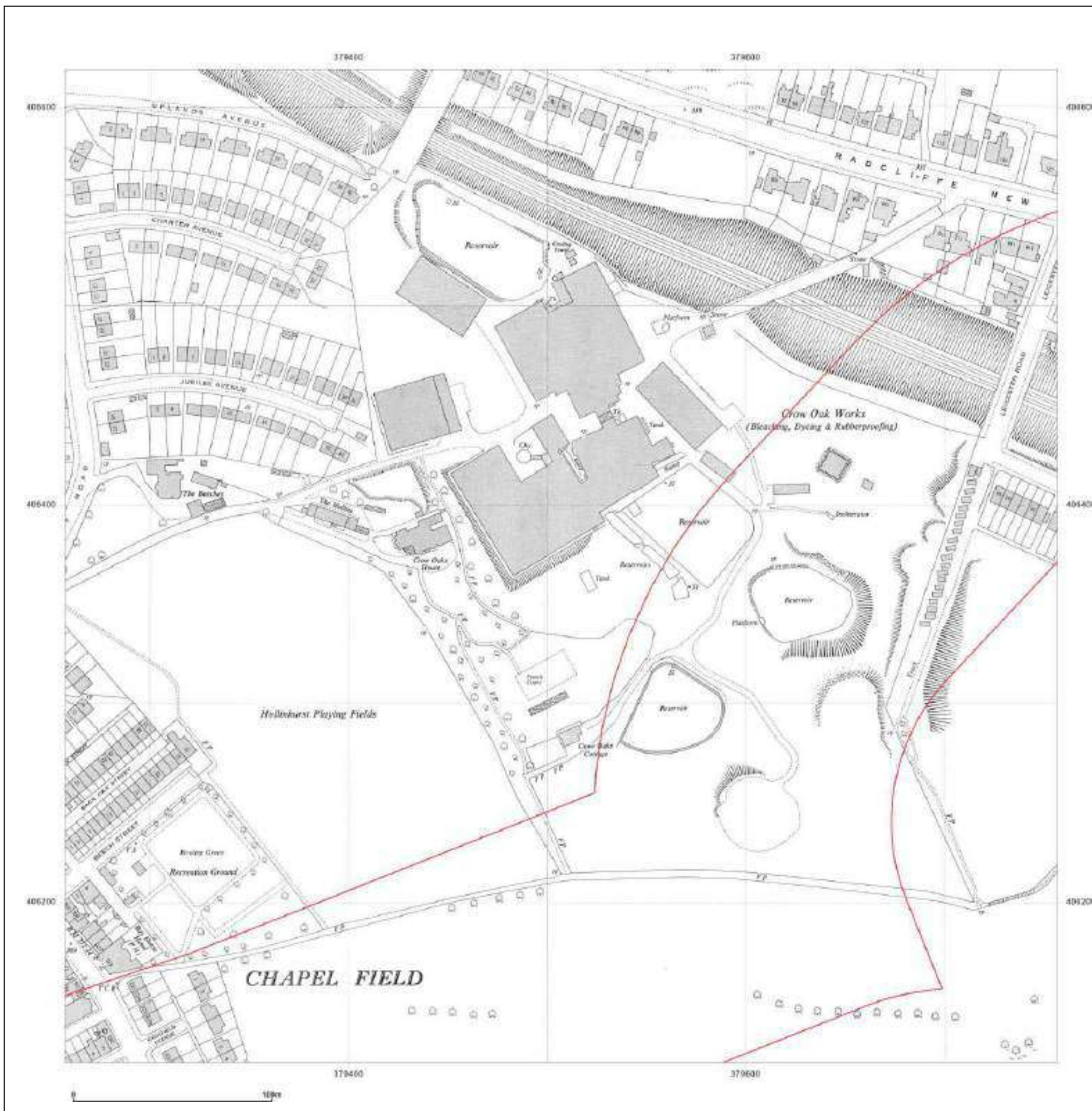


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Site Details:

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ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_3
Grid Ref: 379507, 406369

Map Name: National Grid

Map date: 1956

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1955
Revised N/A
Edition N/A
Copyright 1956
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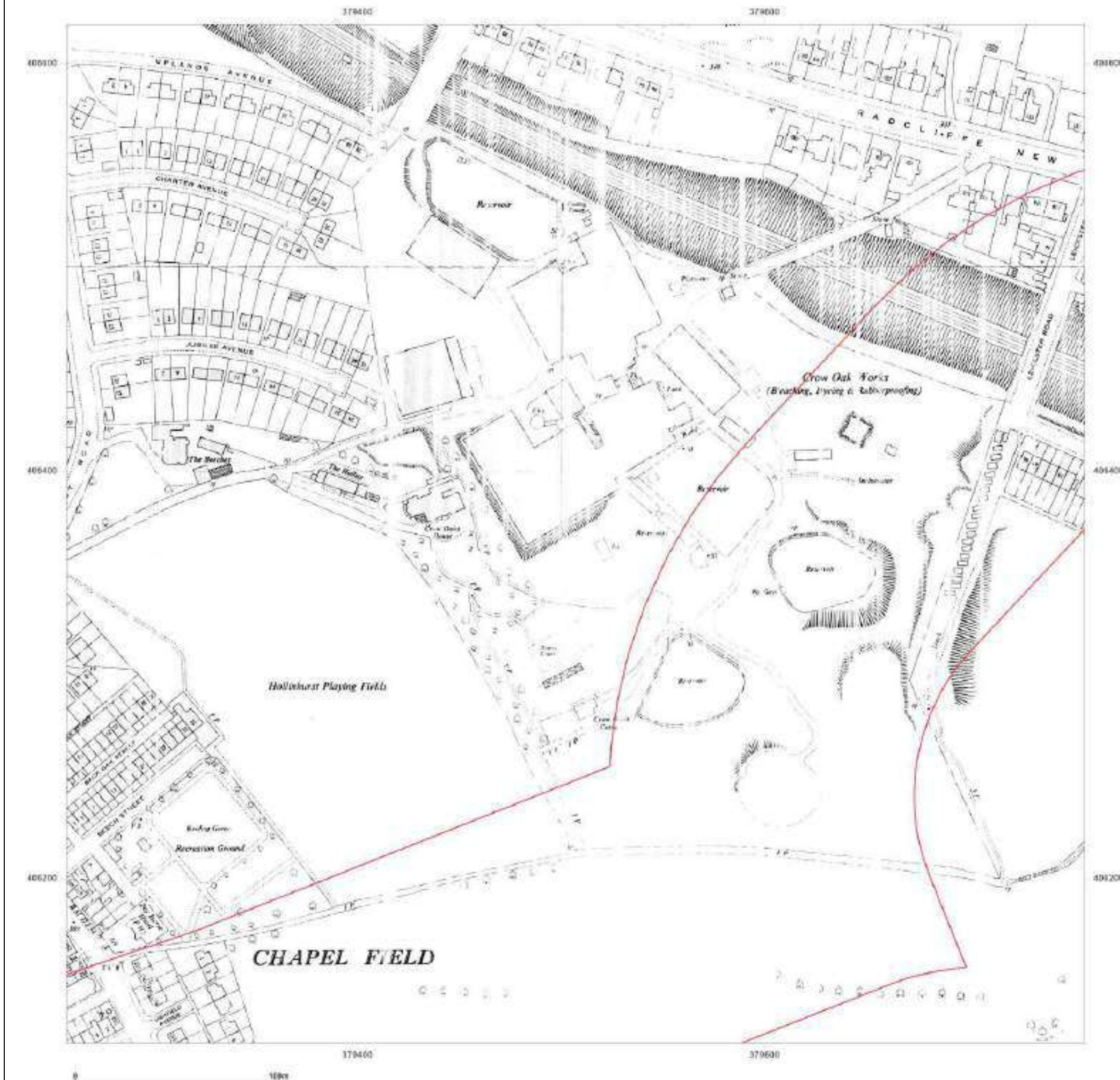


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Site Details:

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RADCLIFFE, BURY, M45 7NL

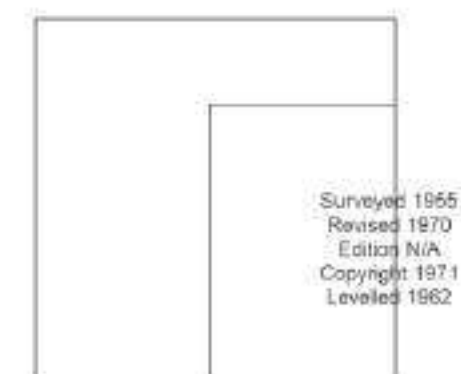
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Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_3
Grid Ref: 379507, 406369

Map Name: National Grid

Map date: 1971

Scale: 1:1,250

Printed at: 1:2,000

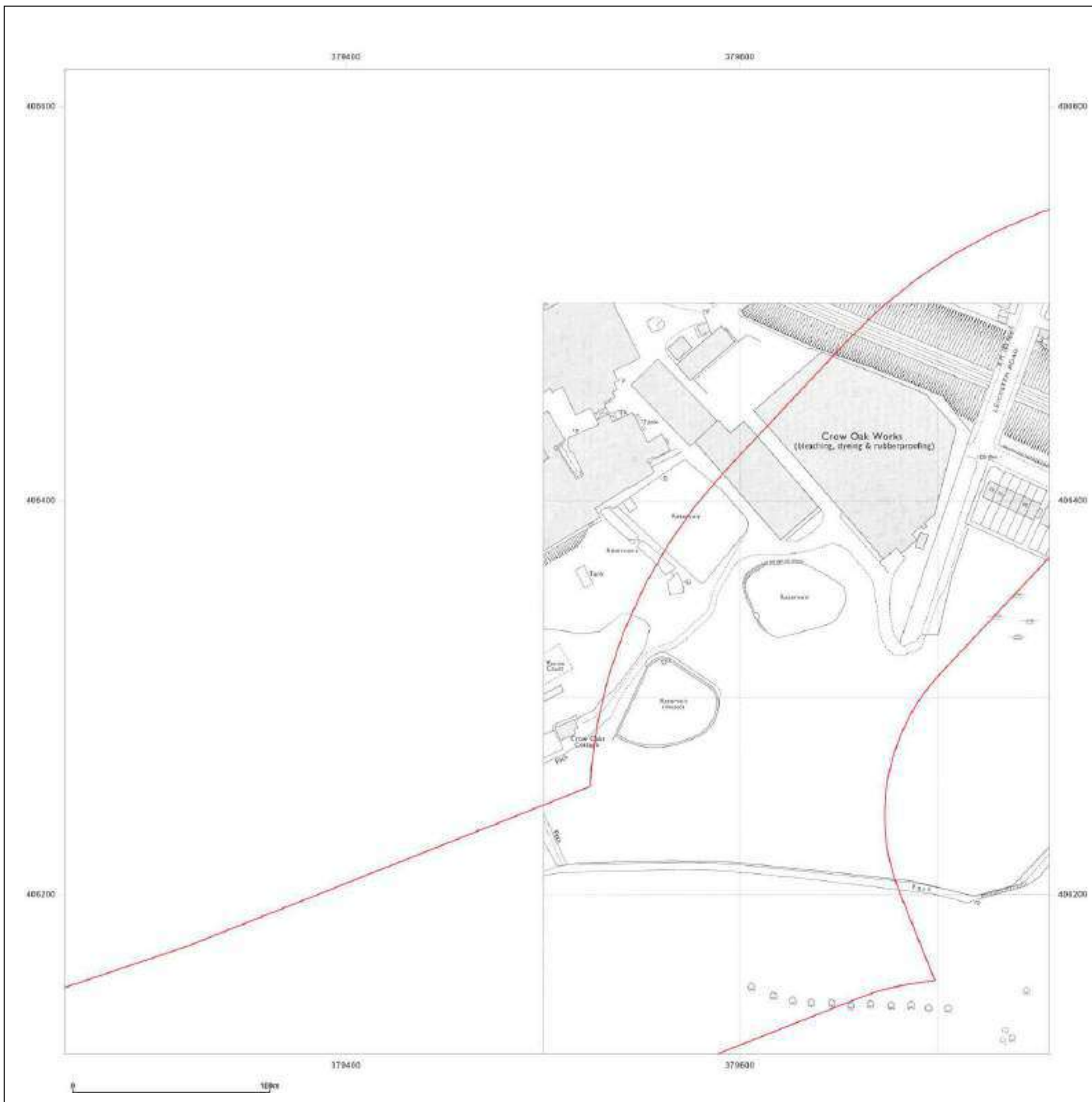


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ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_3
Grid Ref: 379507, 406369

Map Name: National Grid

Map date: 1967-1975

Scale: 1:1,250

Printed at: 1:2,000



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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_3
Grid Ref: 379507, 406369

Map Name: National Grid

Map date: 1984

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
Copyright 1984
Levelled 1982

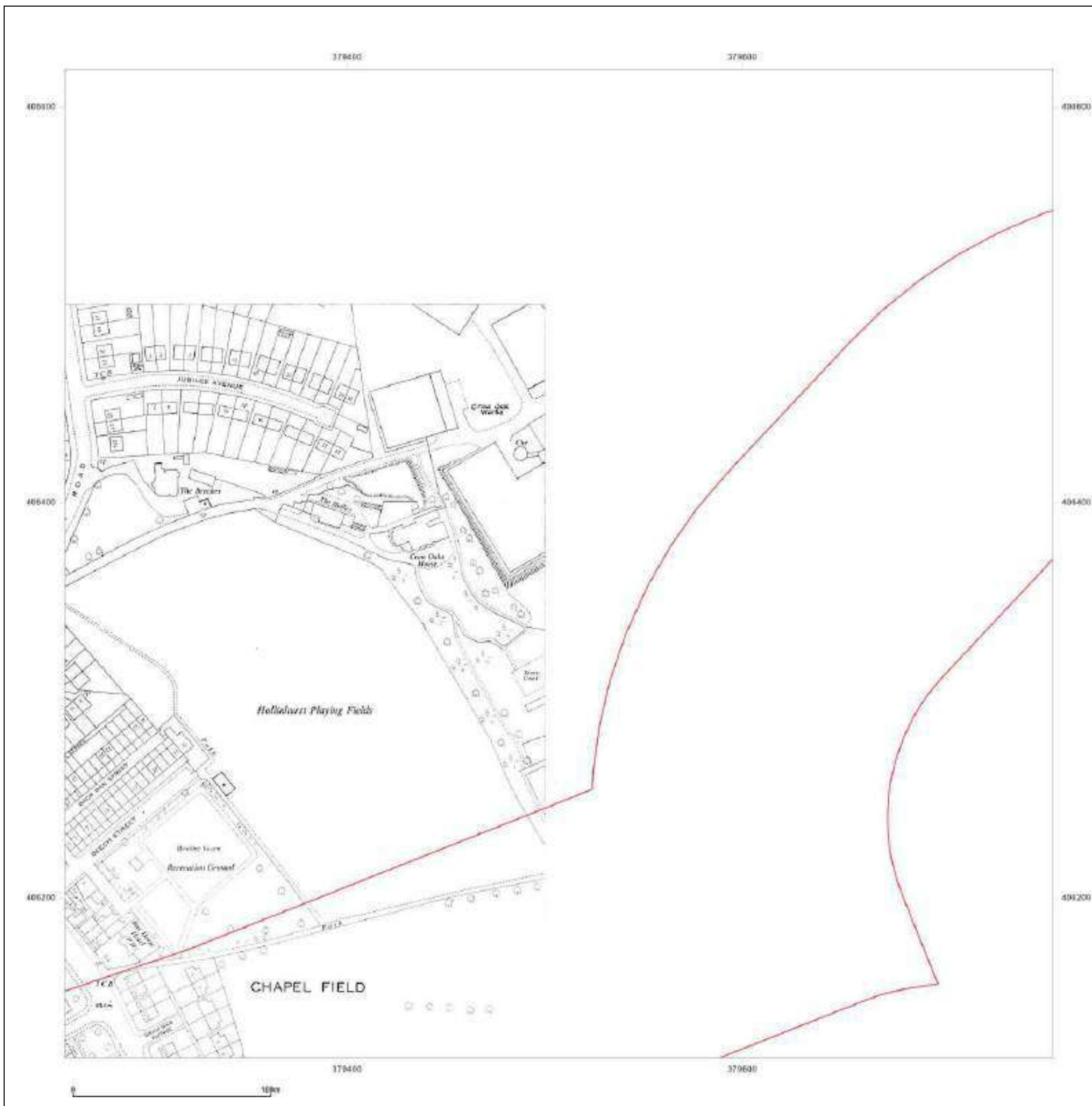


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RADCLIFFE, BURY, M45 7NL

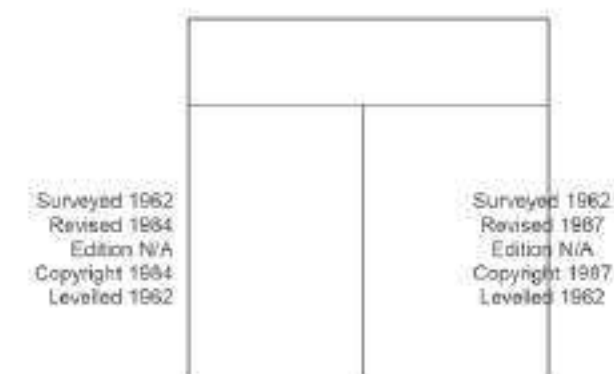
Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_3
Grid Ref: 379507, 406369

Map Name: National Grid

Map date: 1984-1987

Scale: 1:1,250

Printed at: 1:2,000

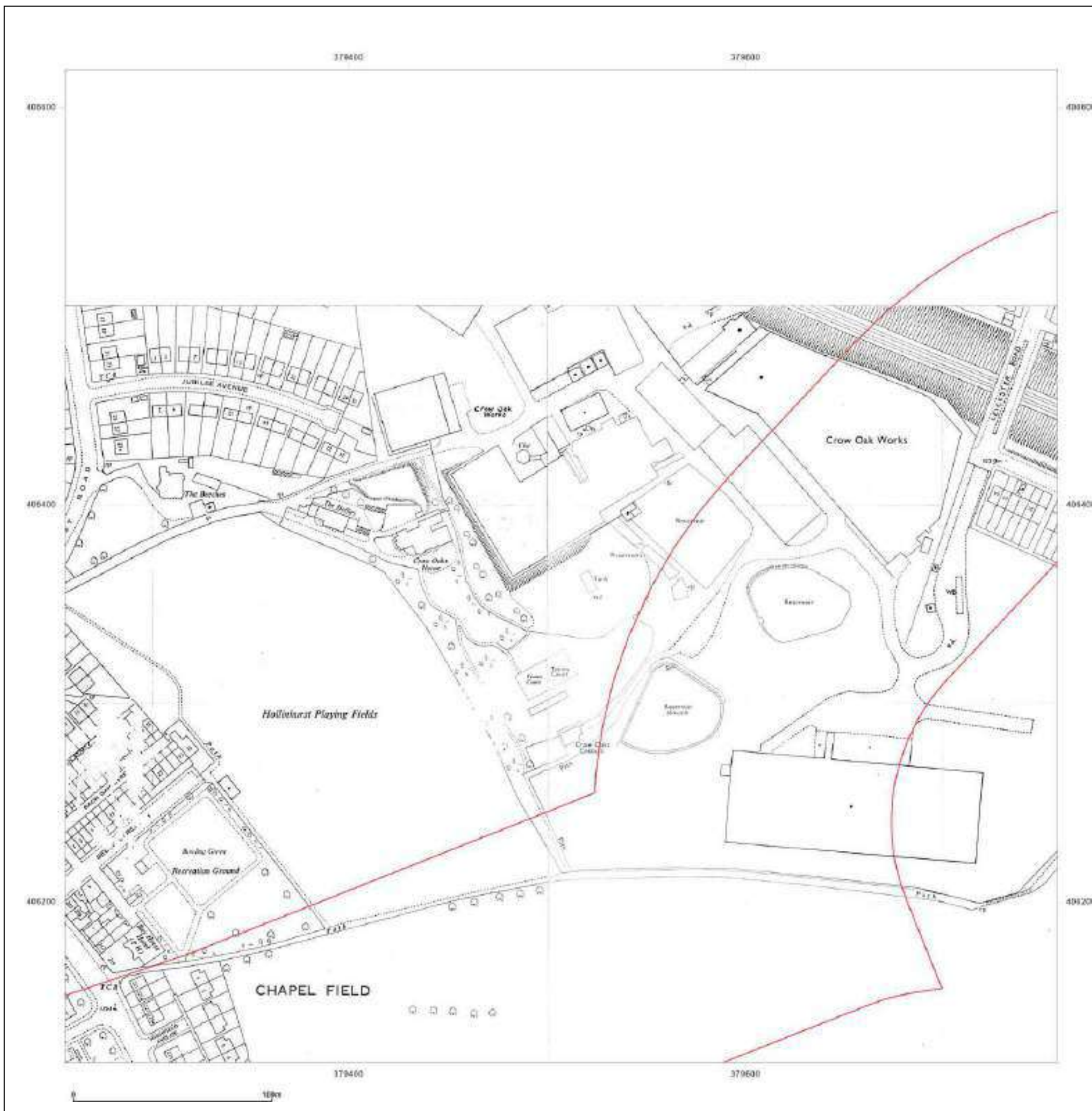


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Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_2_3
Grid Ref: 379507, 406369

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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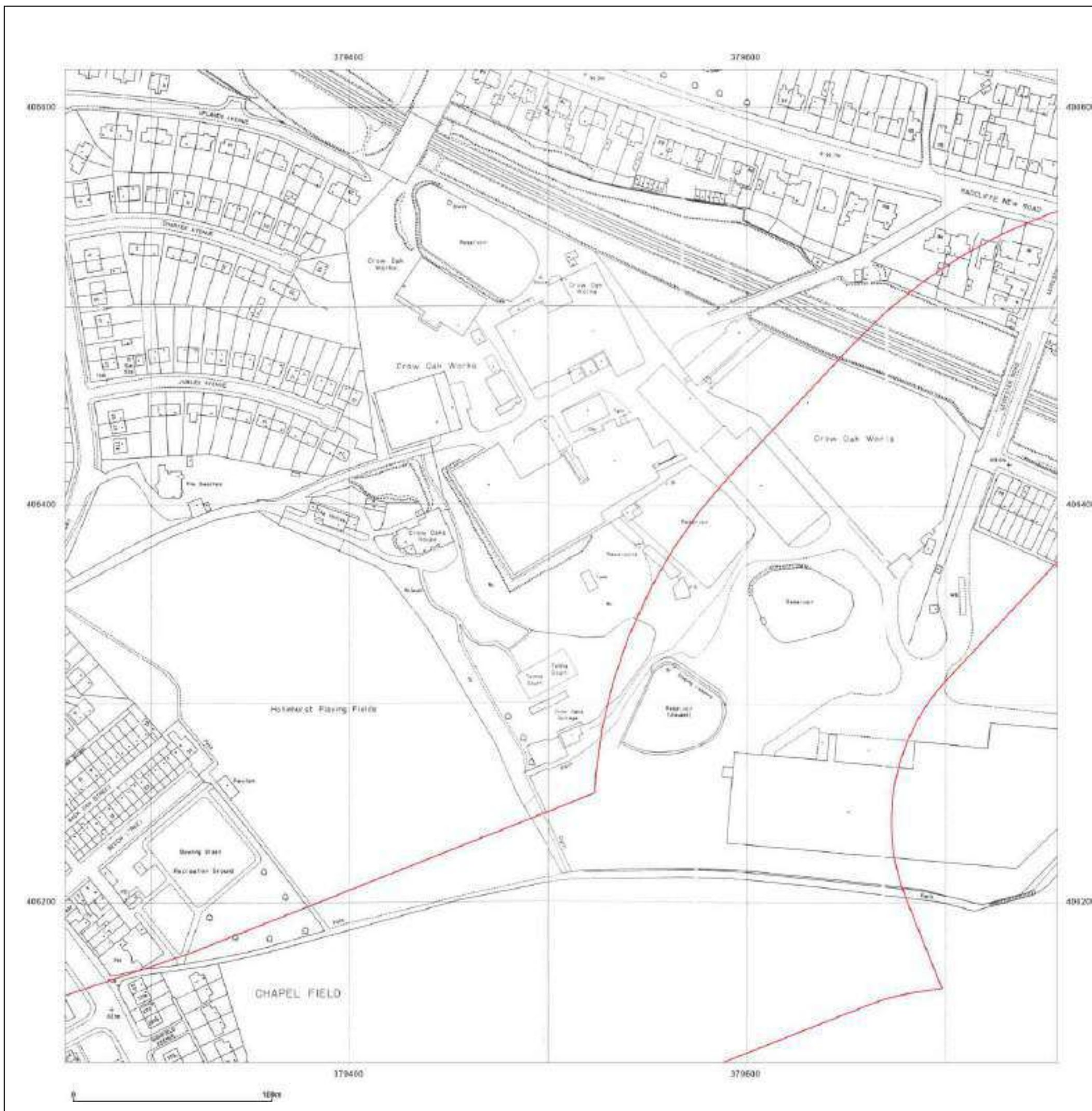


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_3_2
Grid Ref: 380007, 405869

Map Name: National Grid

Map date: 1955

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1955
Edition N/A
Copyright N/A
Levelled 1927

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Revised 1955
Edition N/A
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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_3_2
Grid Ref: 380007, 405869

Map Name: National Grid

Map date: 1956

Scale: 1:1,250

Printed at: 1:2,000

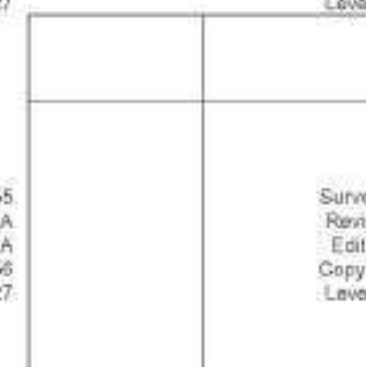


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Edition N/A
Copyright 1956
Levelled 1927

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

Surveyed 1955
Revised N/A
Edition N/A
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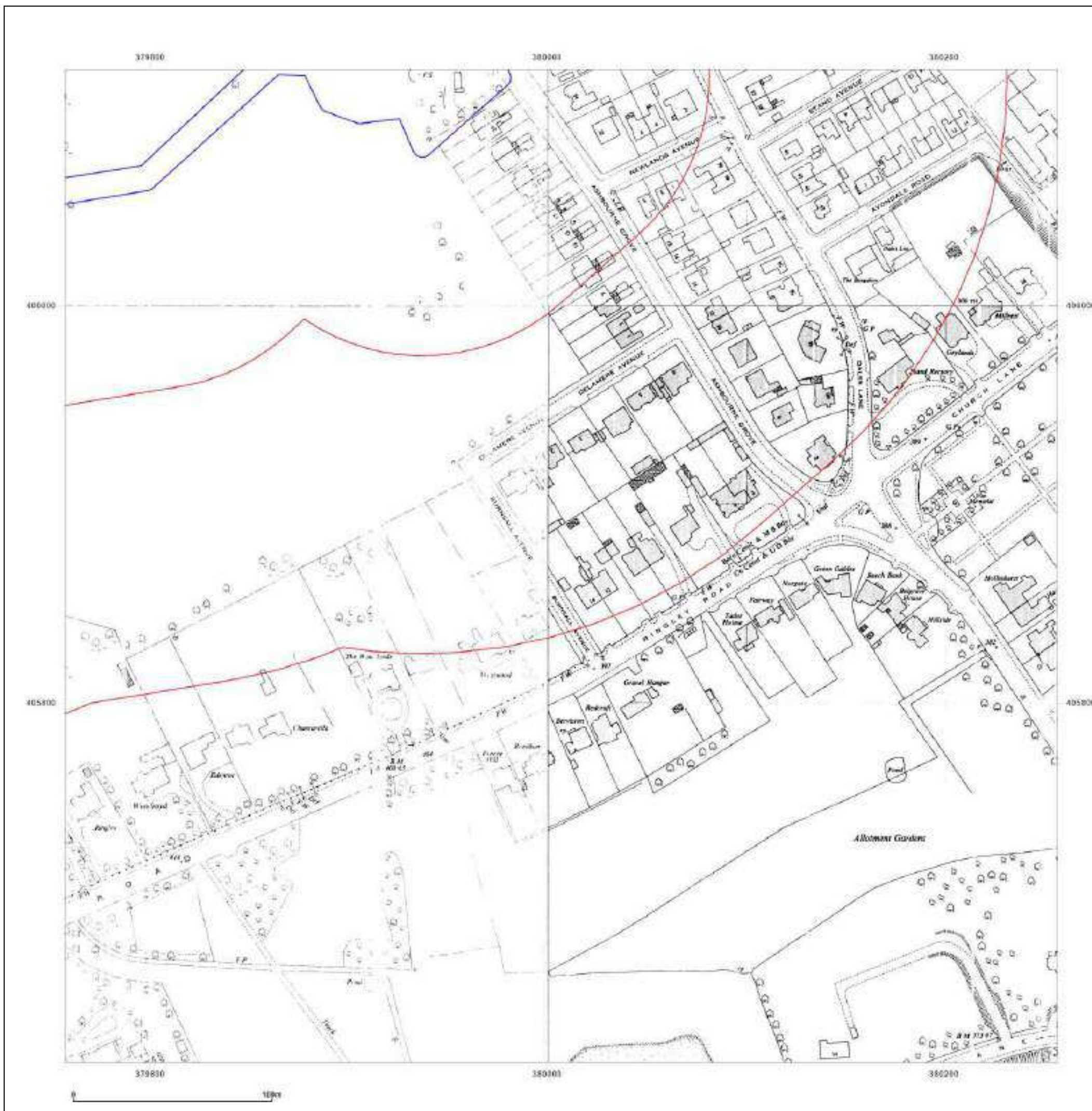


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_3_2
Grid Ref: 380007, 405869

Map Name: National Grid

Map date: 1965-1970

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
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Surveyed 1955
Revised 1965
Edition N/A
Copyright 1965
Levelled 1962

Surveyed 1955
Revised 1968
Edition N/A
Copyright 1968
Levelled 1962

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Revised 1968
Edition N/A
Copyright 1968
Levelled 1963

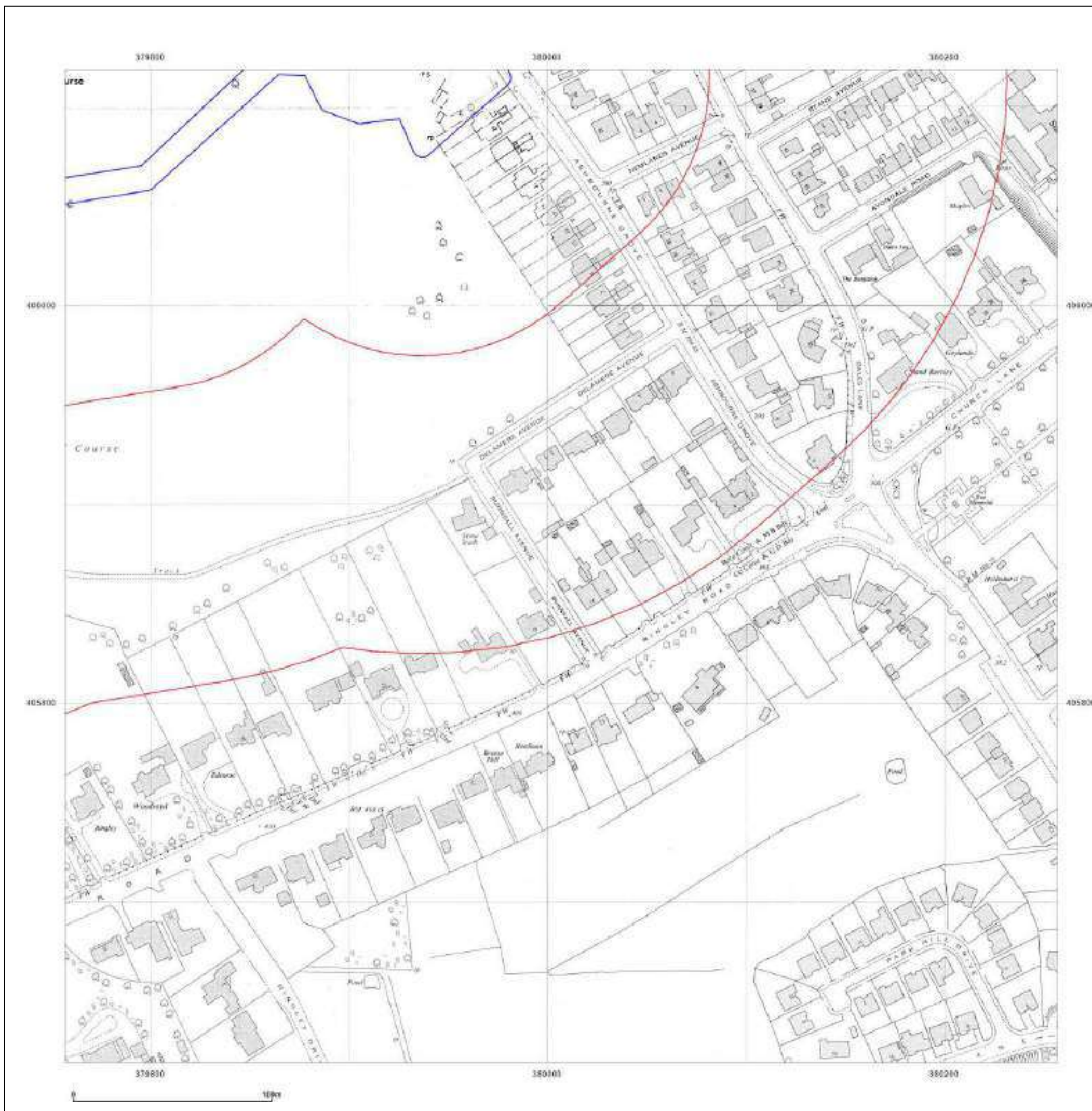


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_3_2
Grid Ref: 380007, 405869

Map Name: National Grid

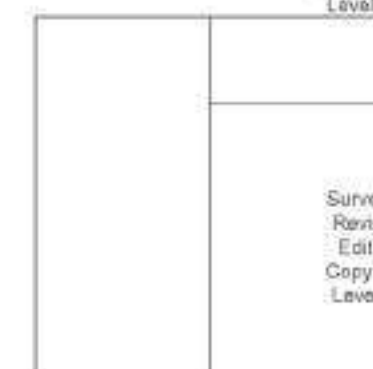
Map date: 1978

Scale: 1:1,250

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1962



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

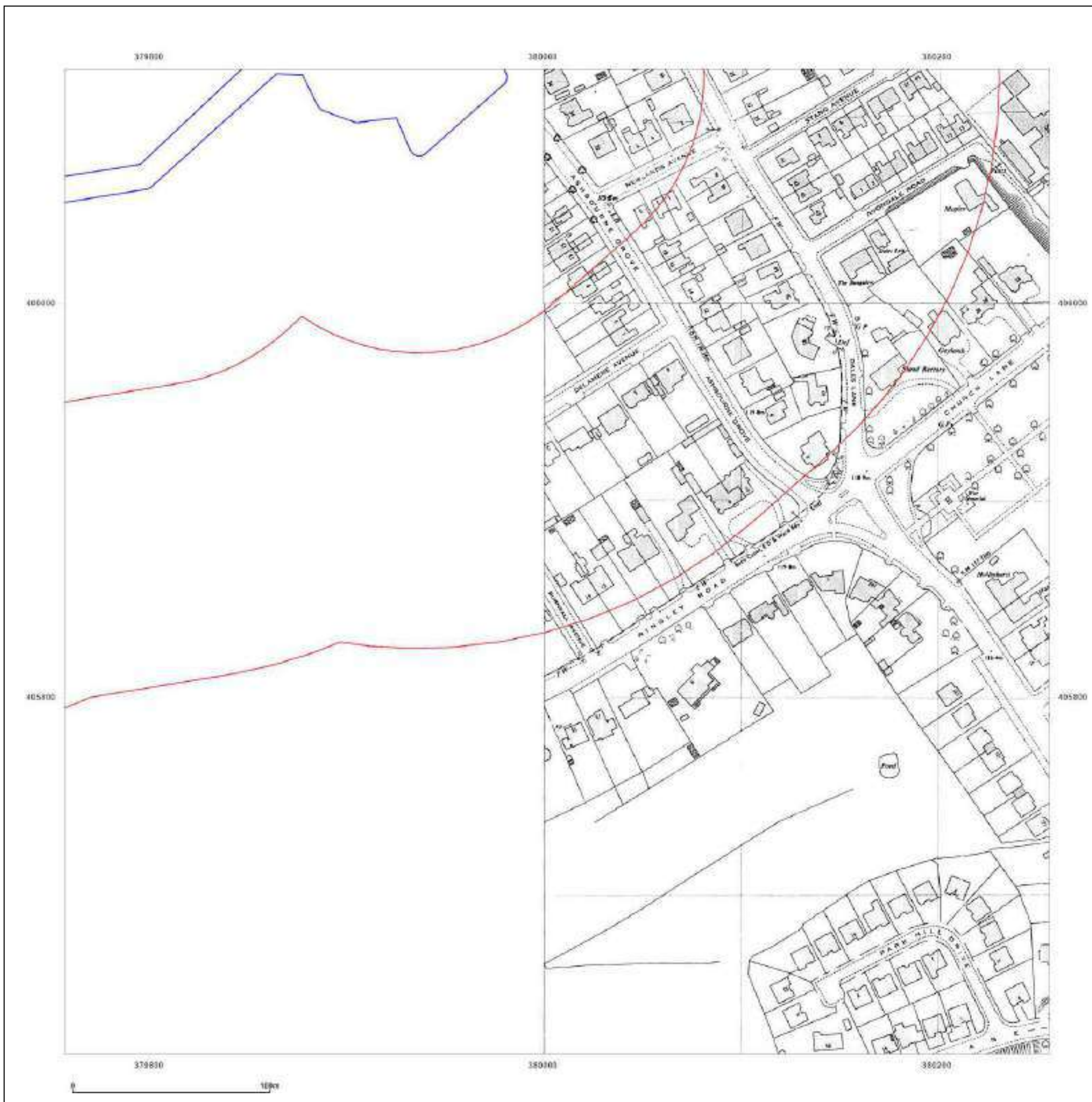


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ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_3_2
Grid Ref: 380007, 405869

Map Name: National Grid

Map date: 1987-1992

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
Copyright 1987
Levelled 1962

Surveyed 1955
Revised 1989
Edition N/A
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Revised N/A
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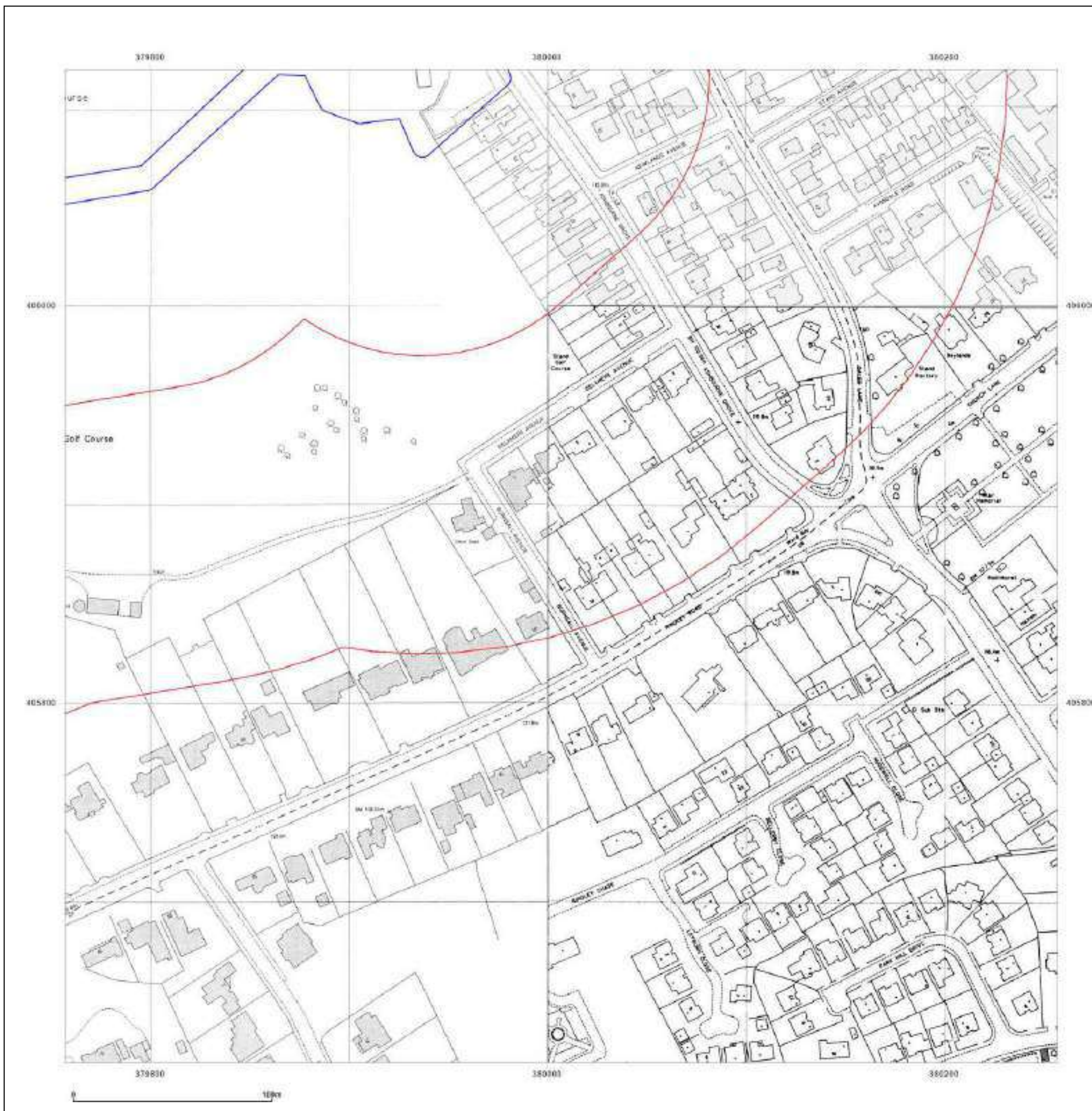


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_1250_3_2
Grid Ref: 380007, 405869

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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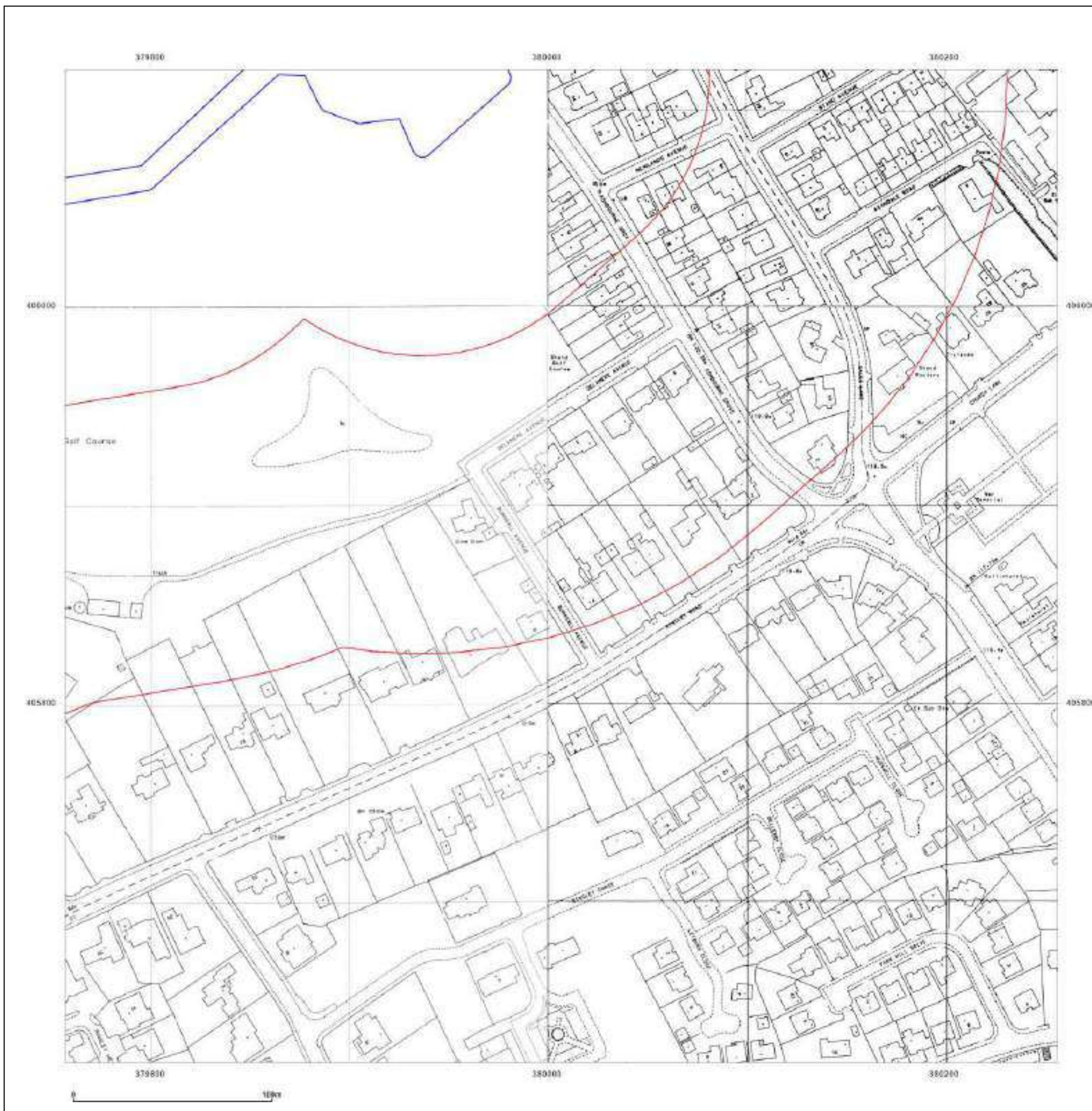


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_1
Grid Ref: 379194, 405556

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
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Edition N/A
Copyright N/A
Levelled N/A

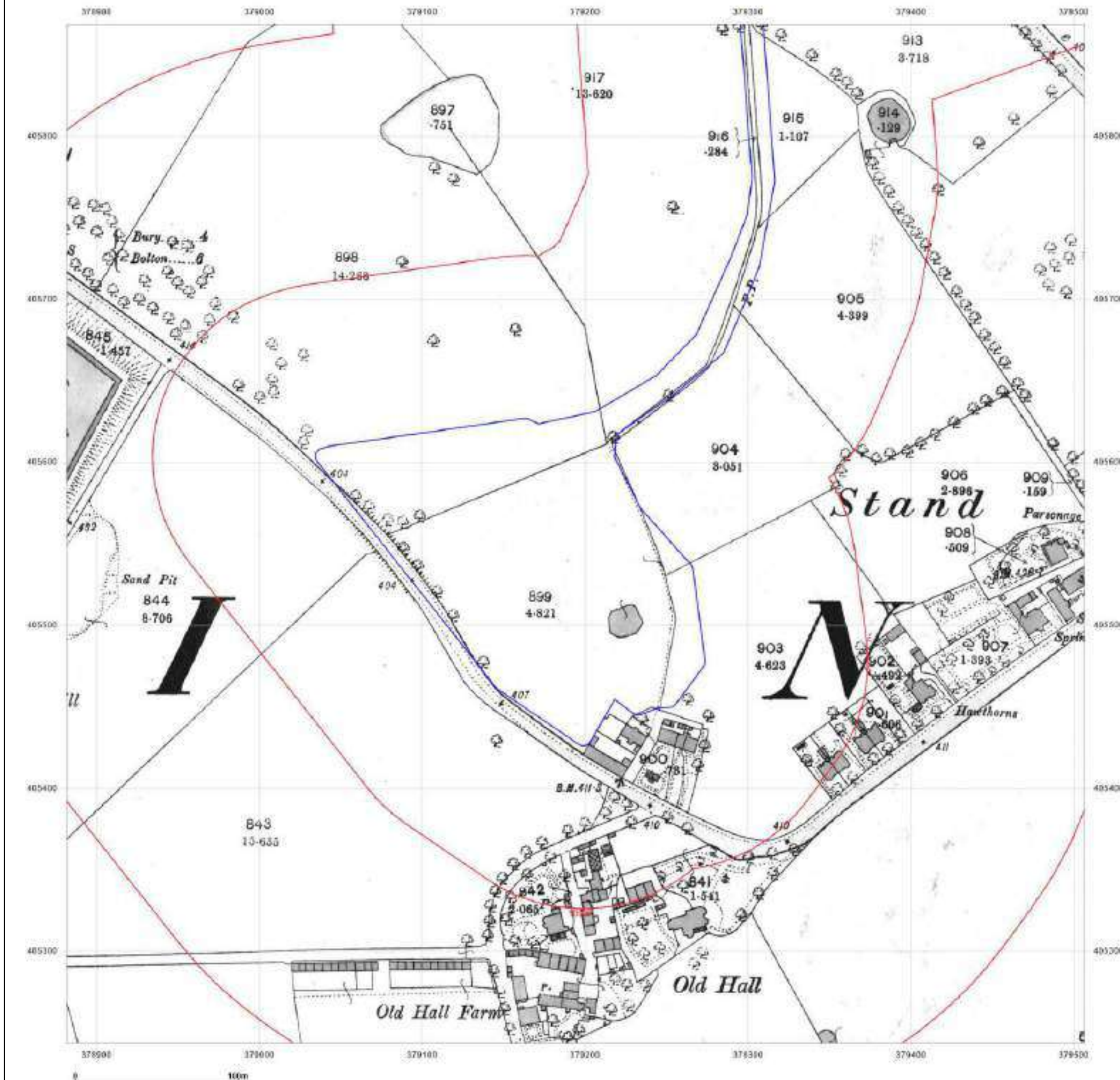


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_1
Grid Ref: 379194, 405556

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

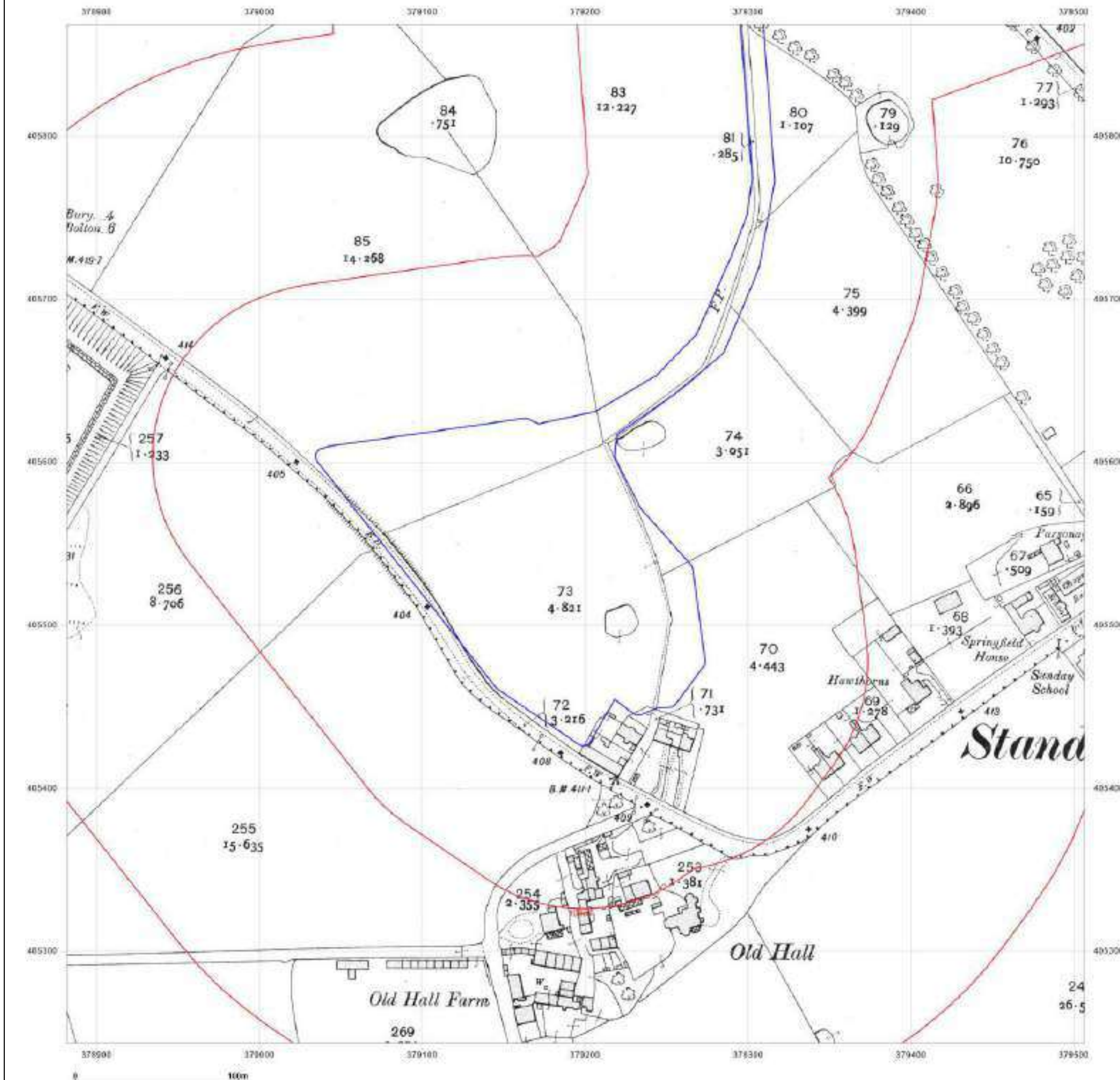


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_1
Grid Ref: 379194, 405556

Map Name: County Series

Map date: 1929

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1929
Revised 1929
Edition N/A
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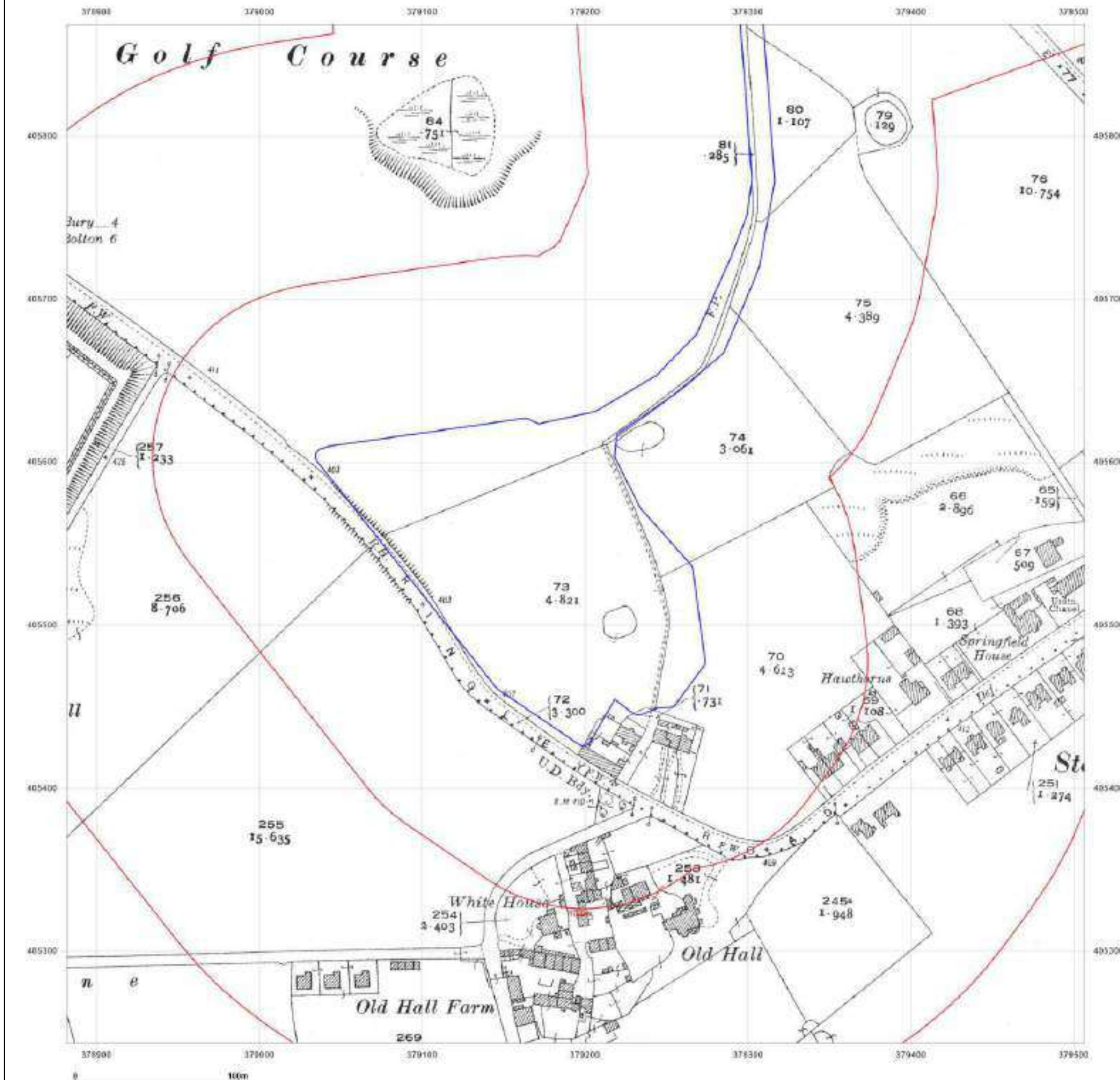


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_1
Grid Ref: 379194, 405556

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1937
Revised 1937
Edition N/A
Copyright N/A
Levelled N/A

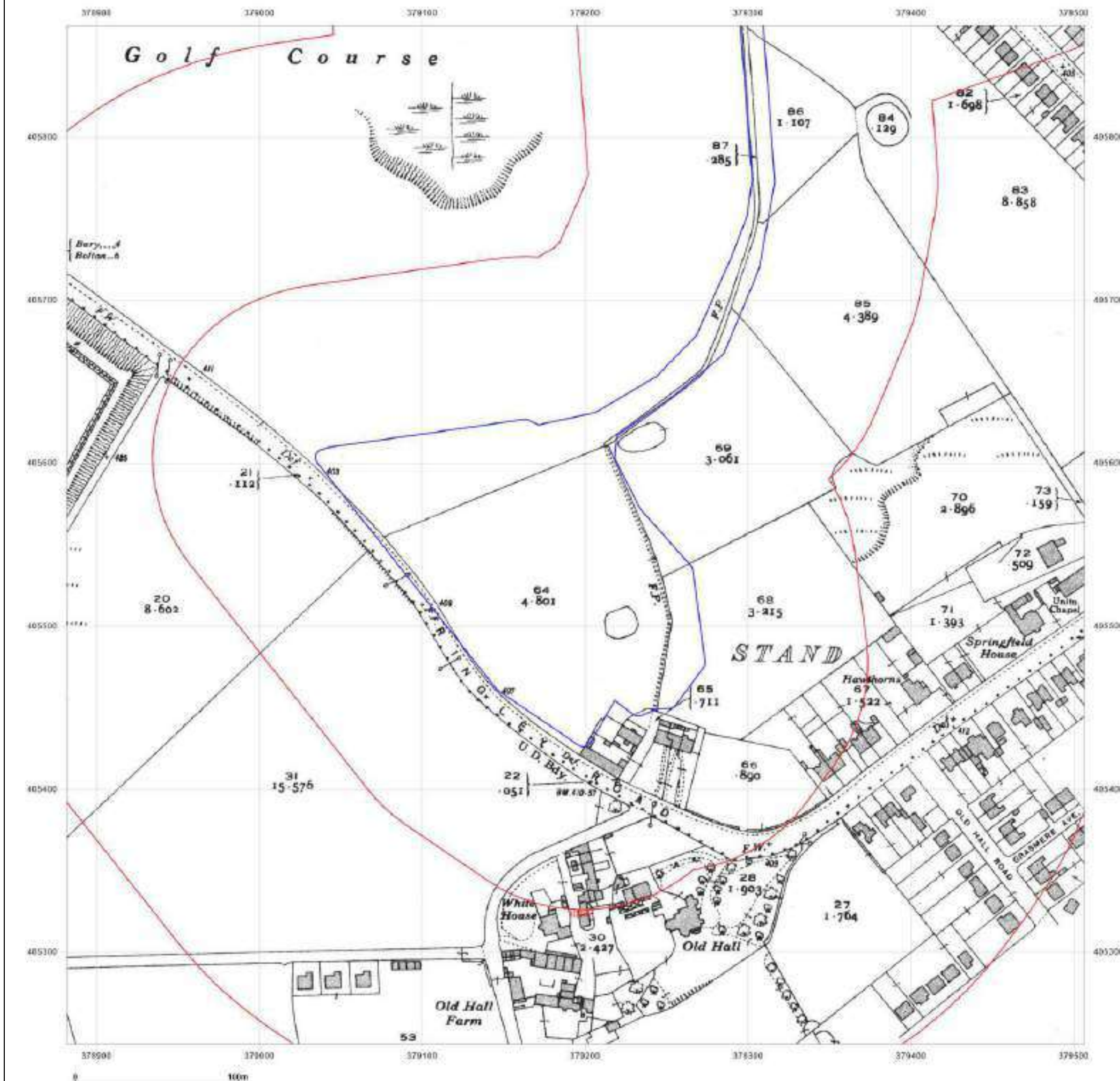


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_1
Grid Ref: 379194, 405556

Map Name: National Grid

Map date: 1956

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1955
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Edition 1956
Copyright N/A
Levelled 1926

Surveyed 1955
Revised 1955
Edition 1956
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Levelled 1948

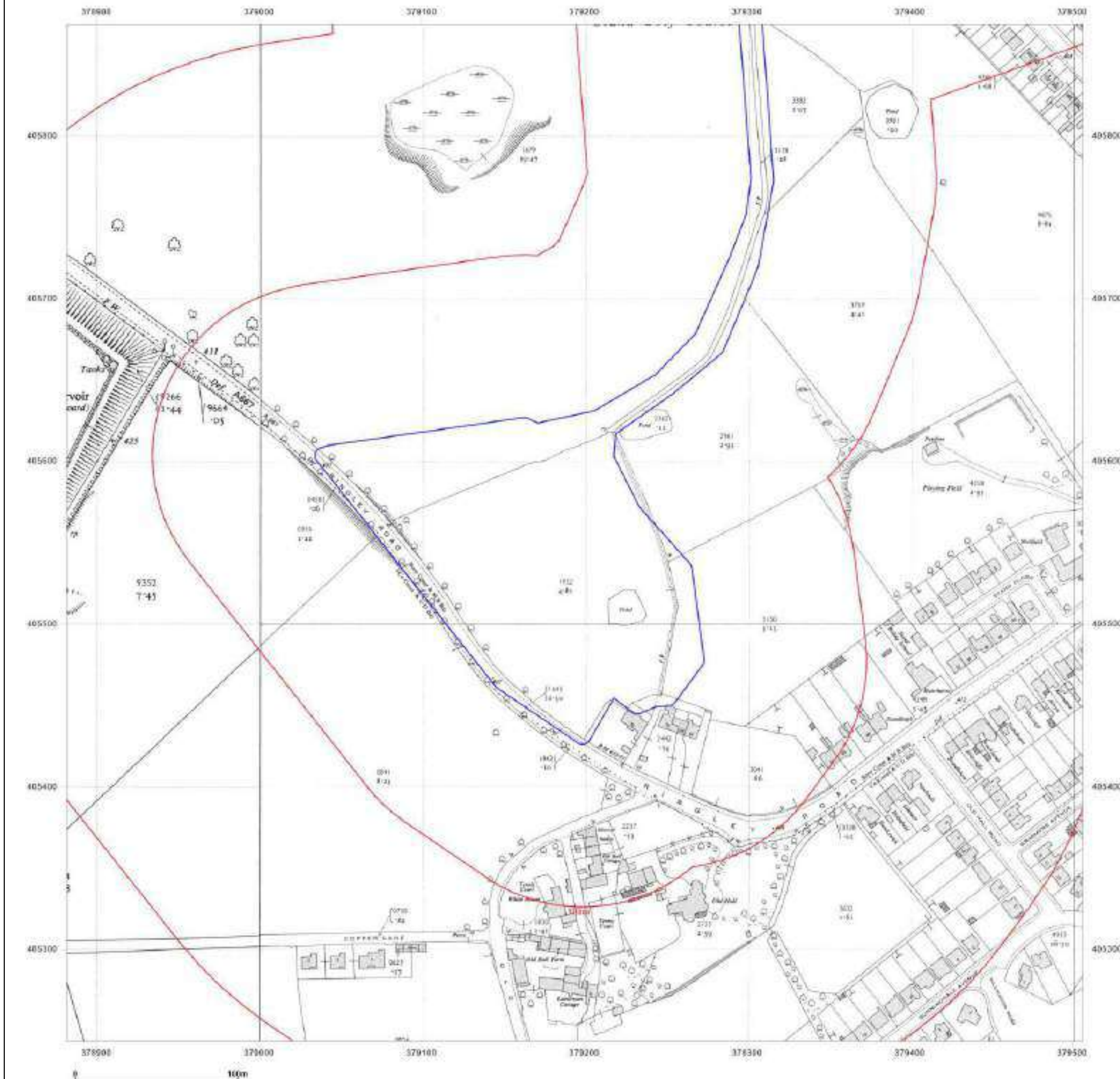


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_1
Grid Ref: 379194, 405556

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1968
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Edition N/A
Copyright 1970
Levelled 1963

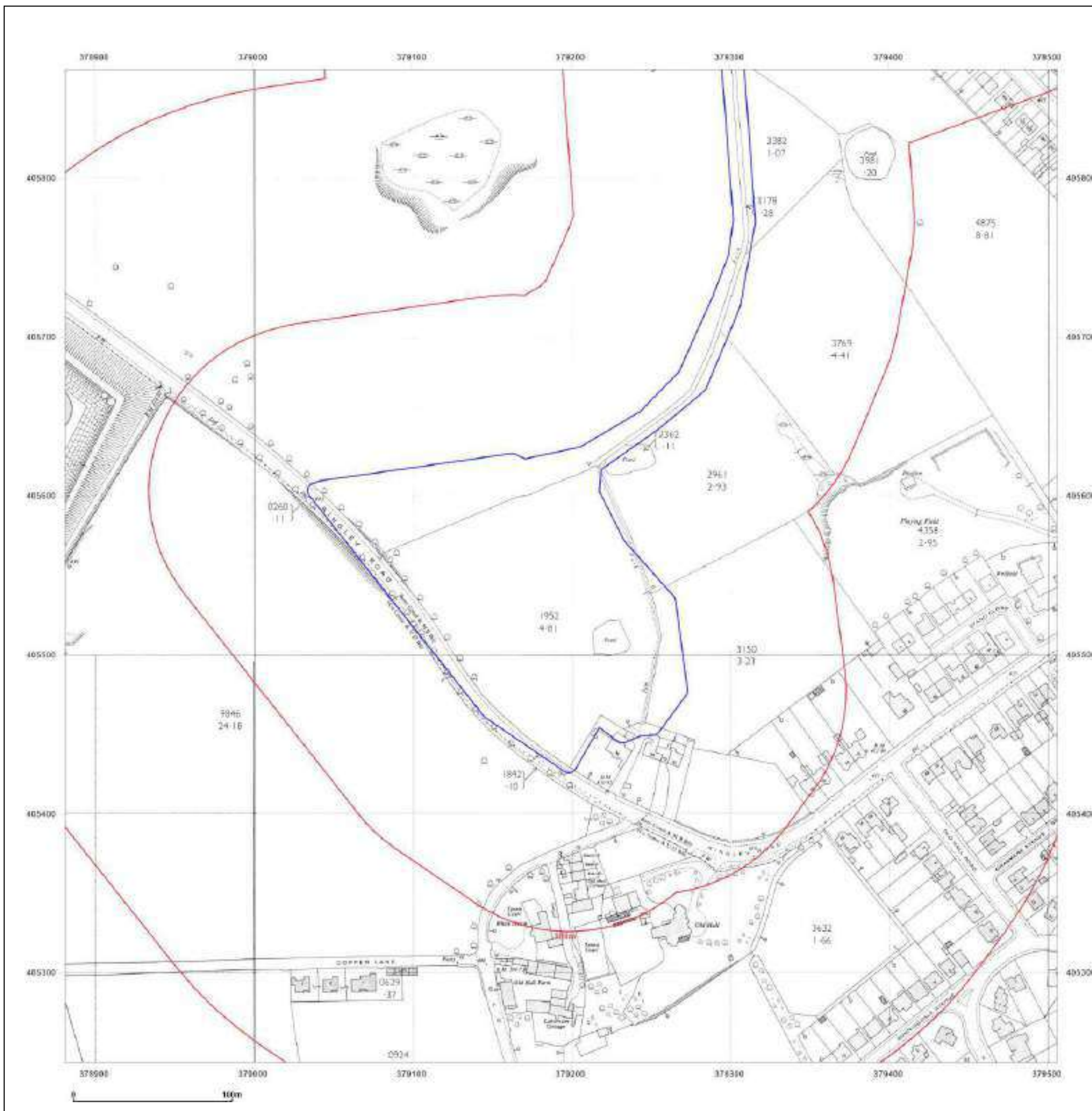


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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_2
Grid Ref: 379194, 406181

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
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Edition N/A
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Edition N/A
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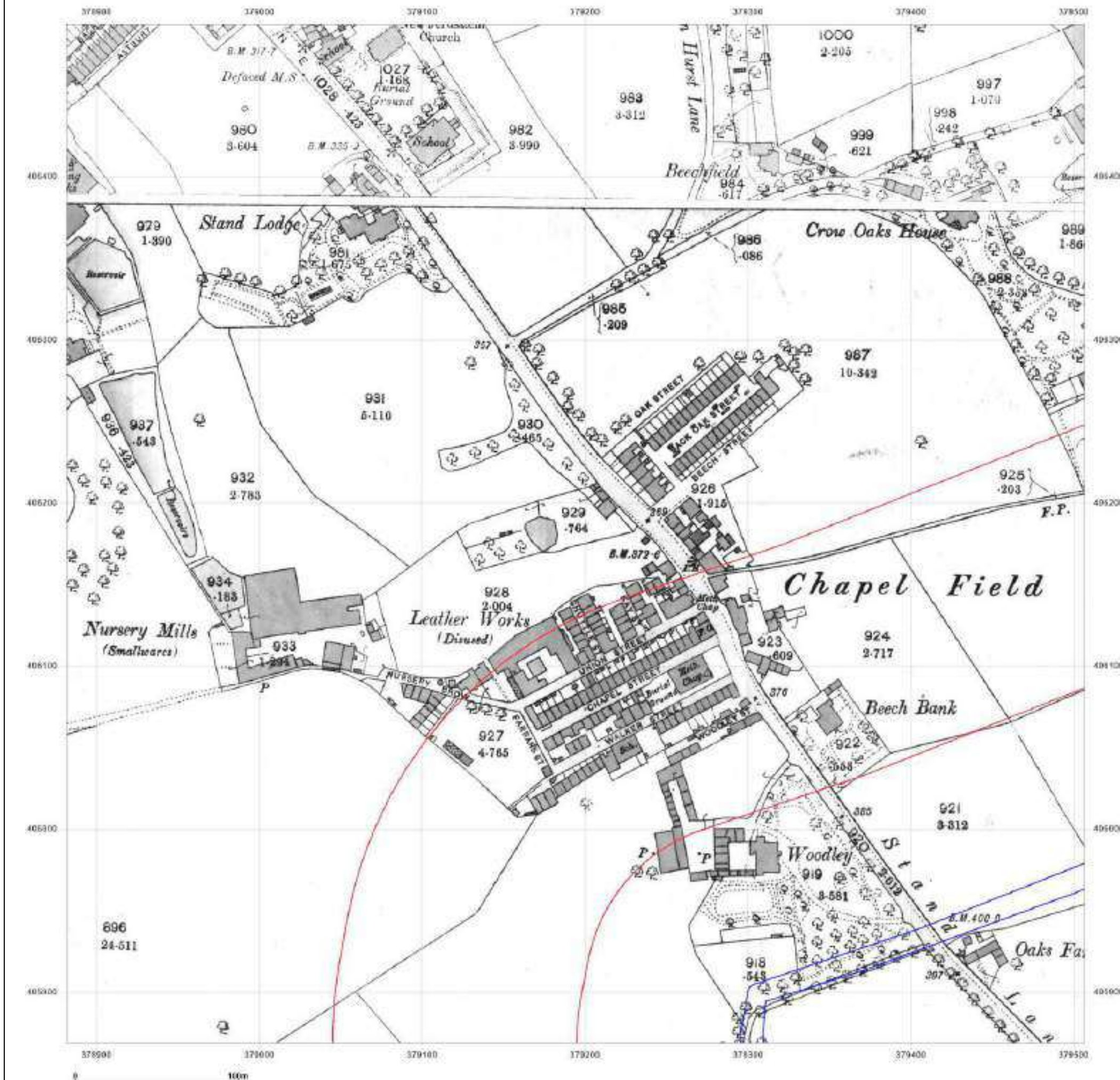


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_2
Grid Ref: 379194, 406181

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
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Edition N/A
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Surveyed 1909
Revised 1909
Edition N/A
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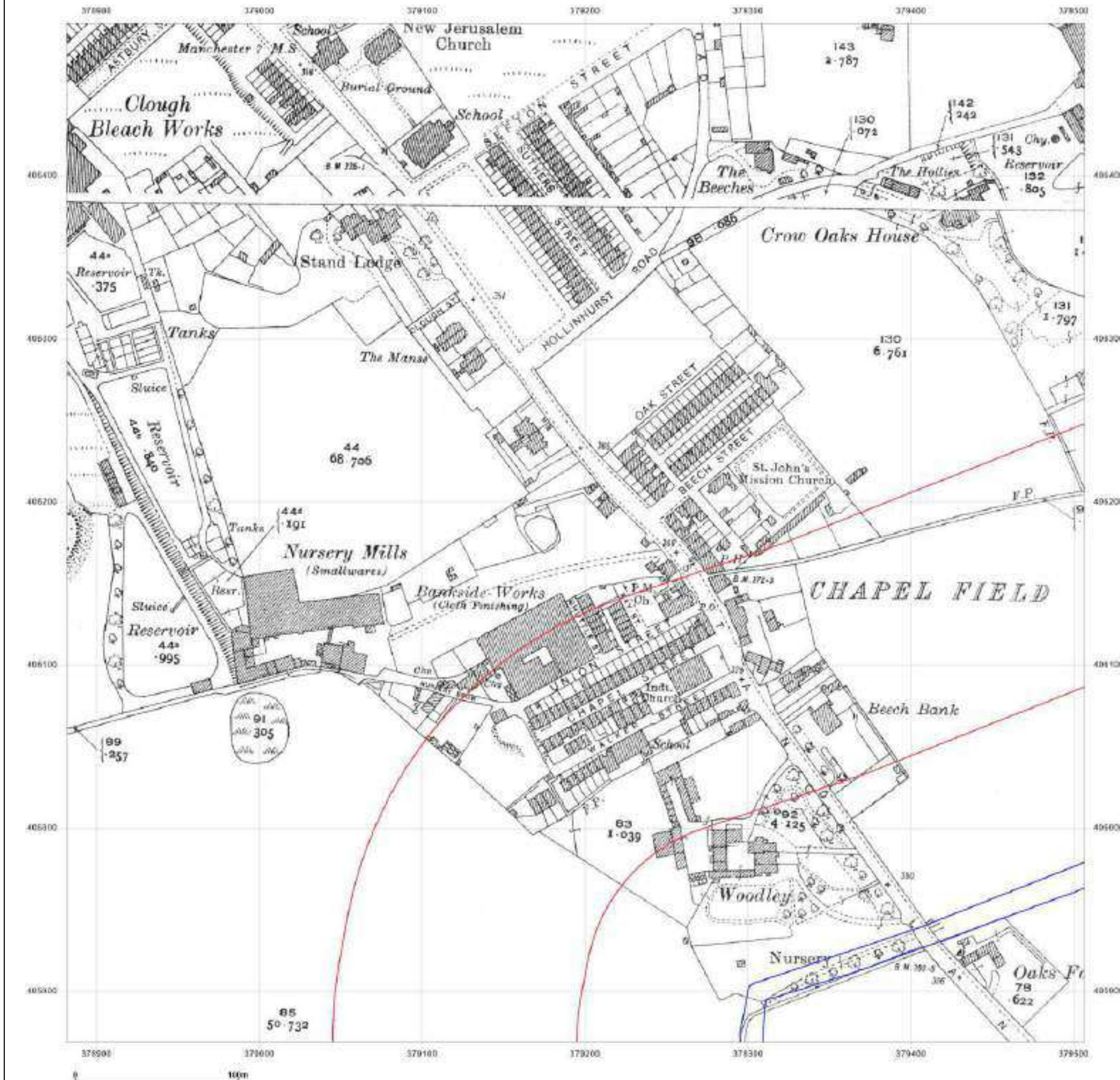
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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_2
Grid Ref: 379194, 406181

Map Name: County Series

Map date: 1929

Scale: 1:2,500

Printed at: 1:2,500



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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_2
Grid Ref: 379194, 406181

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1937
Revised 1937
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1937
Revised 1937
Edition N/A
Copyright N/A
Levelled N/A

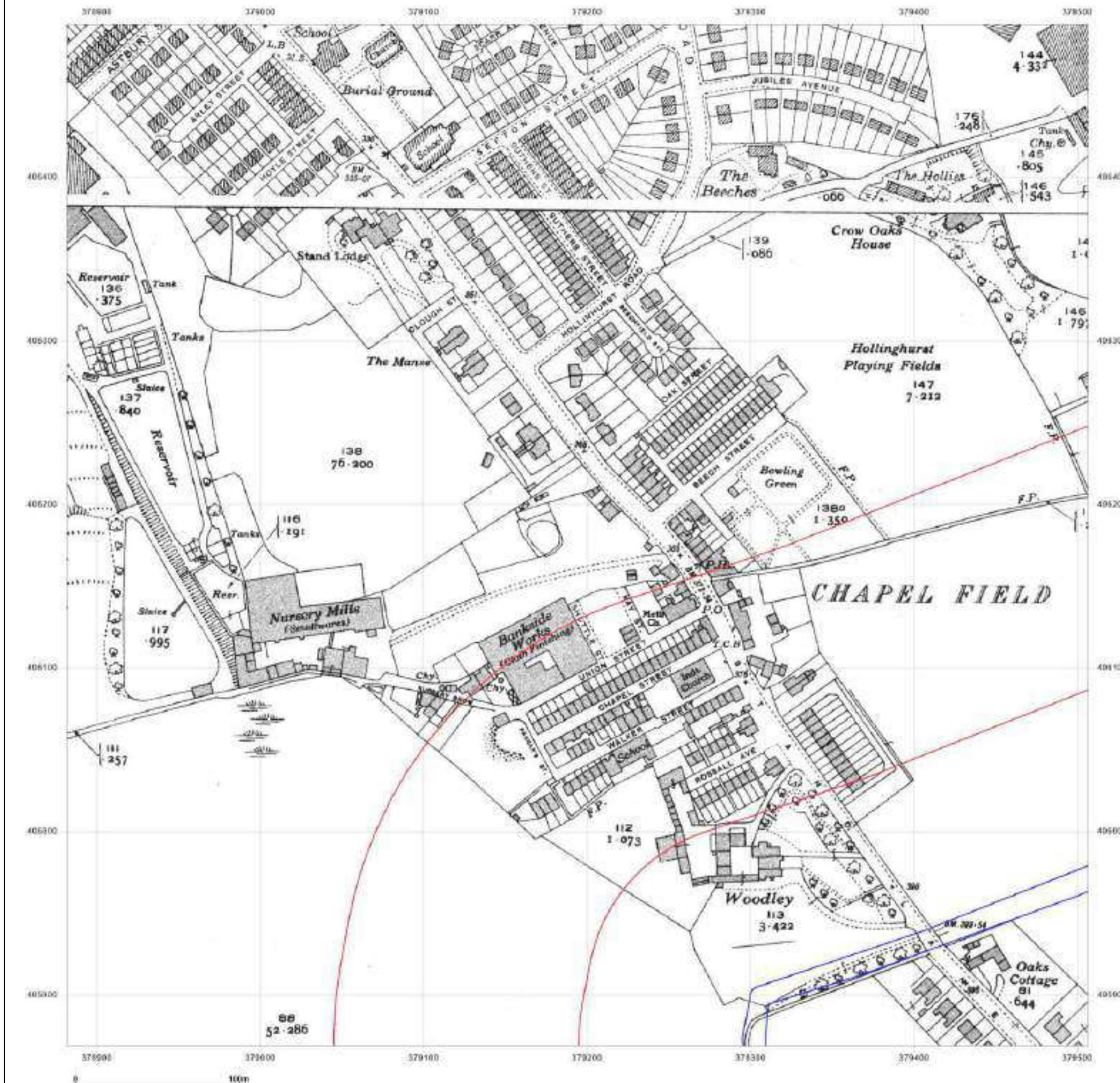


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Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_1_2
Grid Ref: 379194, 406181

Map Name: National Grid

Map date: 1956

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1955
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Edition 1956
Copyright N/A
Levelled 1927

Surveyed 1955
Revised 1955
Edition 1956
Copyright N/A
Levelled 1927

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Revised 1955
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Copyright N/A
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Surveyed 1955
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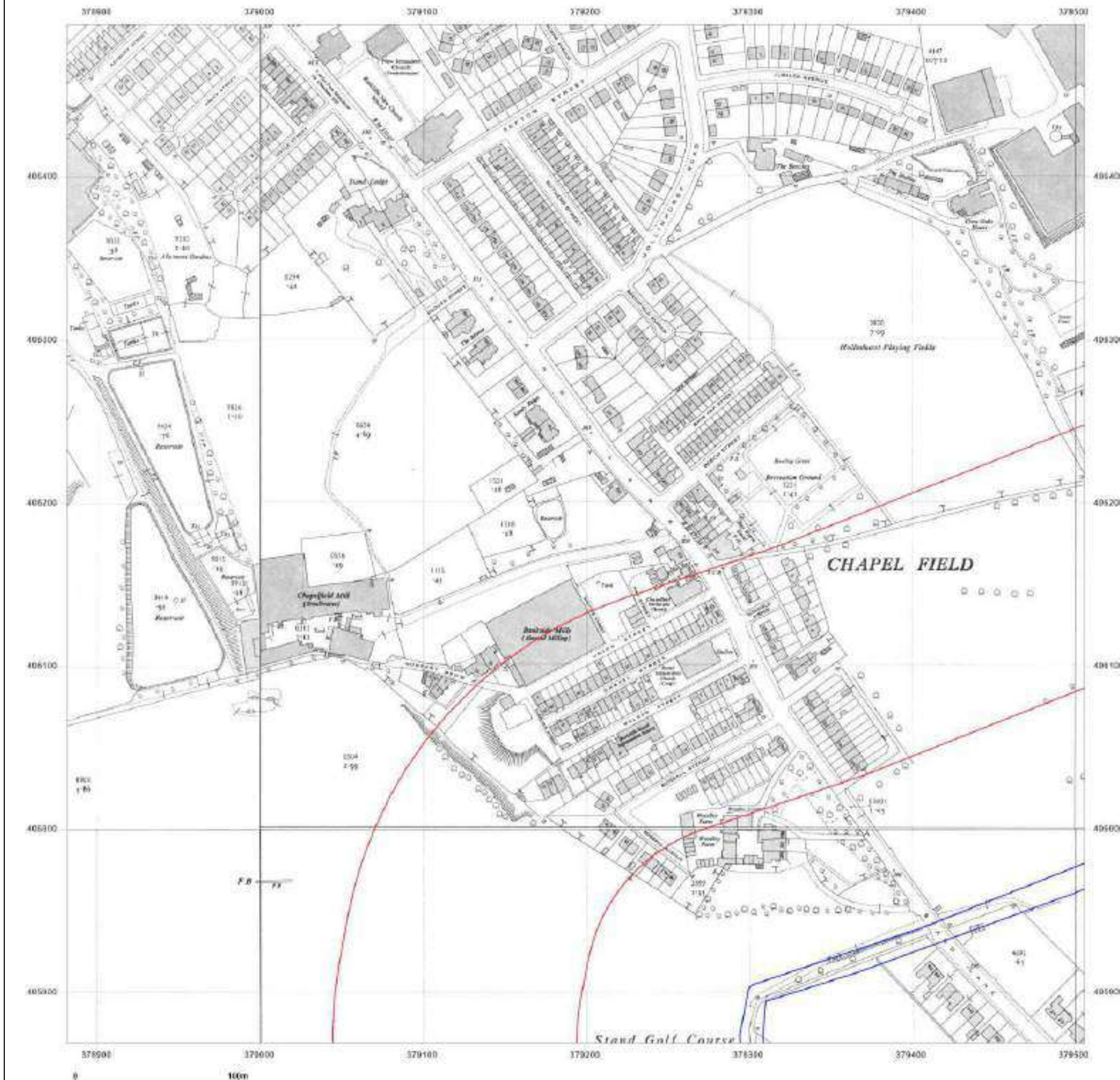


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_1
Grid Ref: 379820, 405556

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

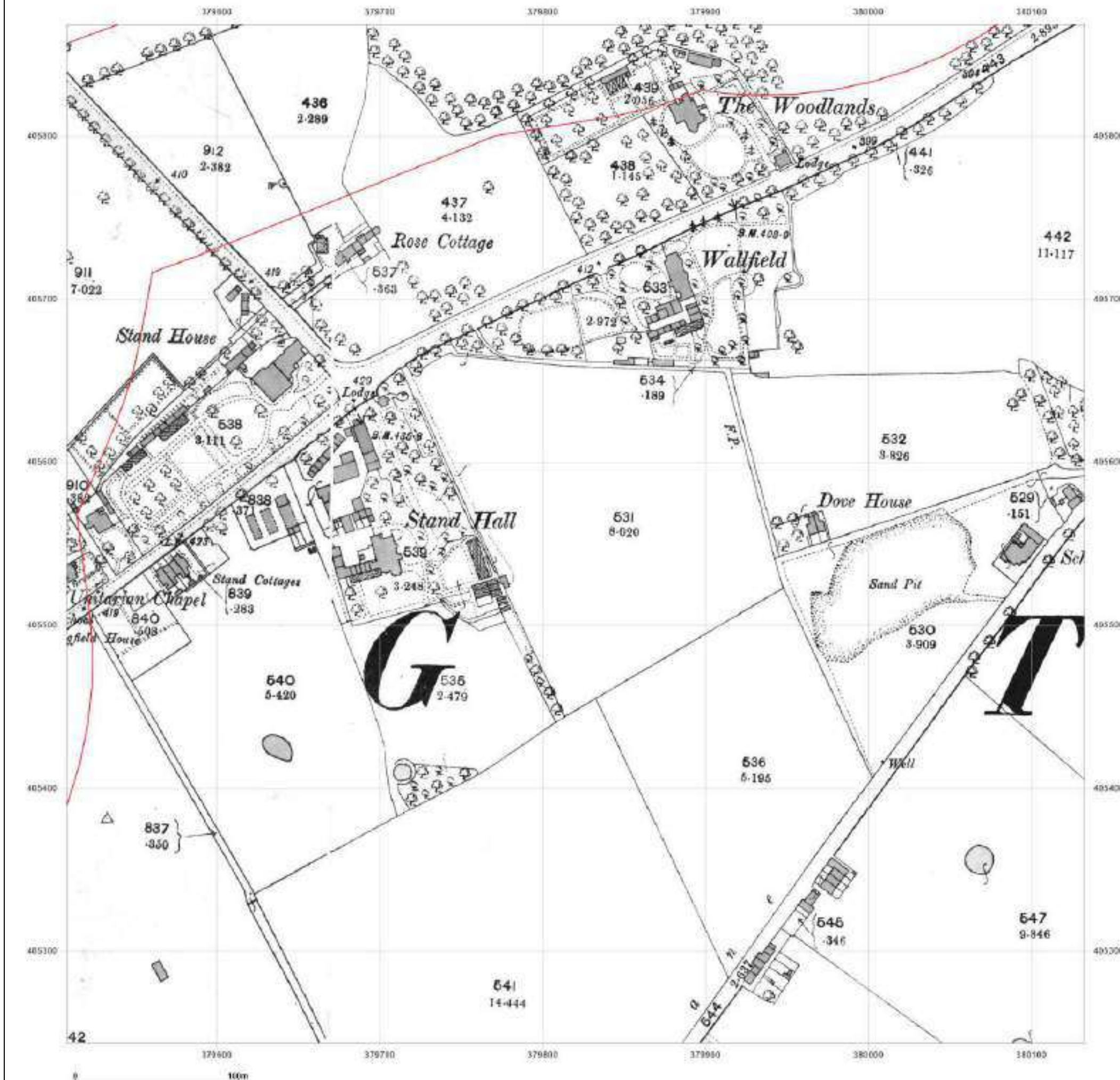


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_1
Grid Ref: 379820, 405556

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

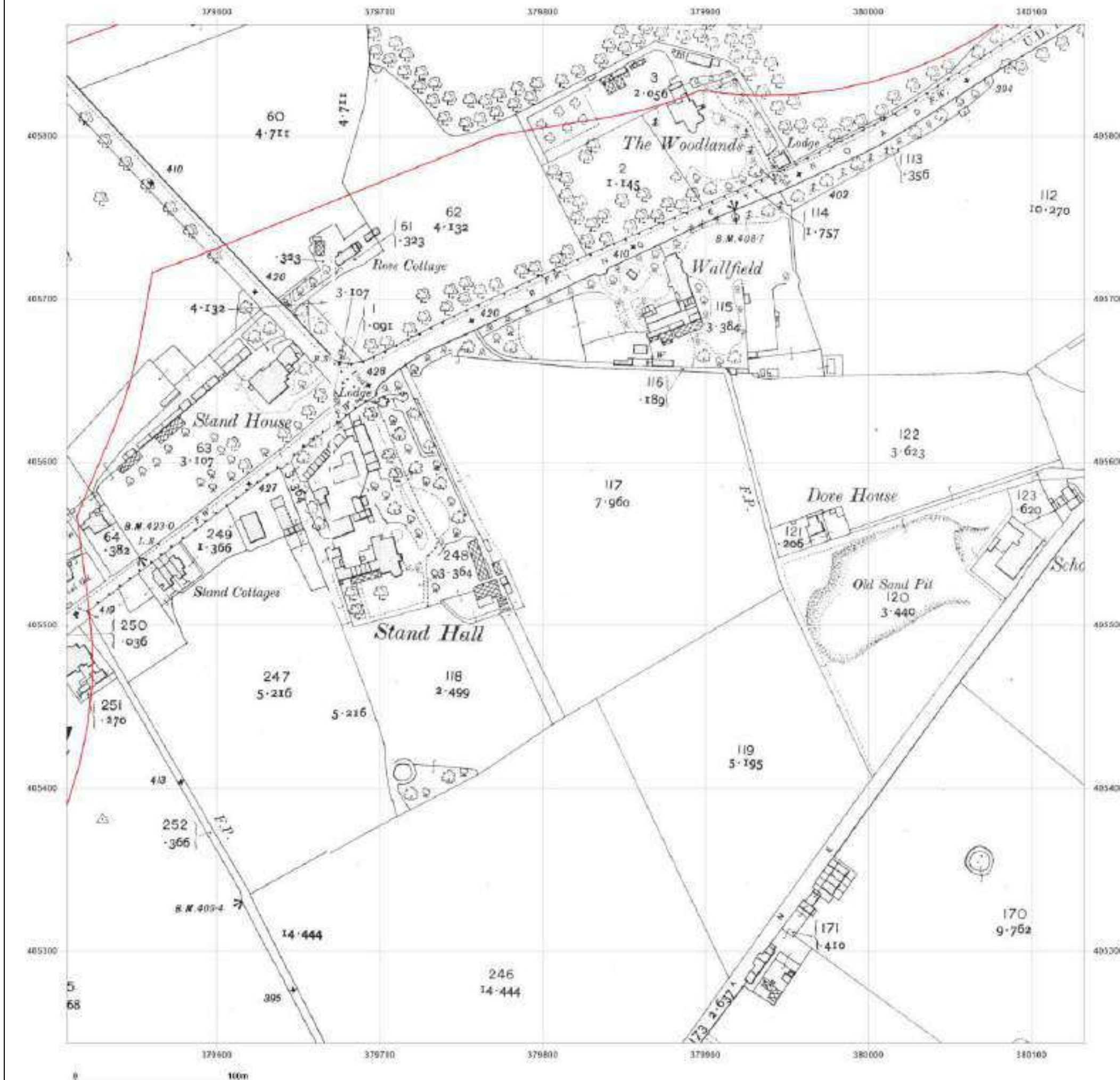


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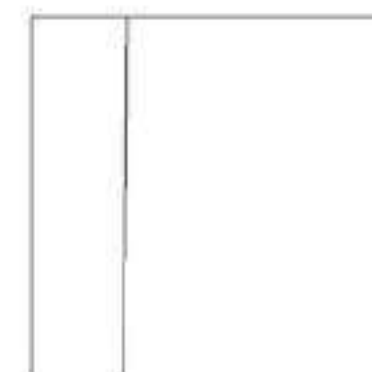
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Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_1
Grid Ref: 379820, 405556

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

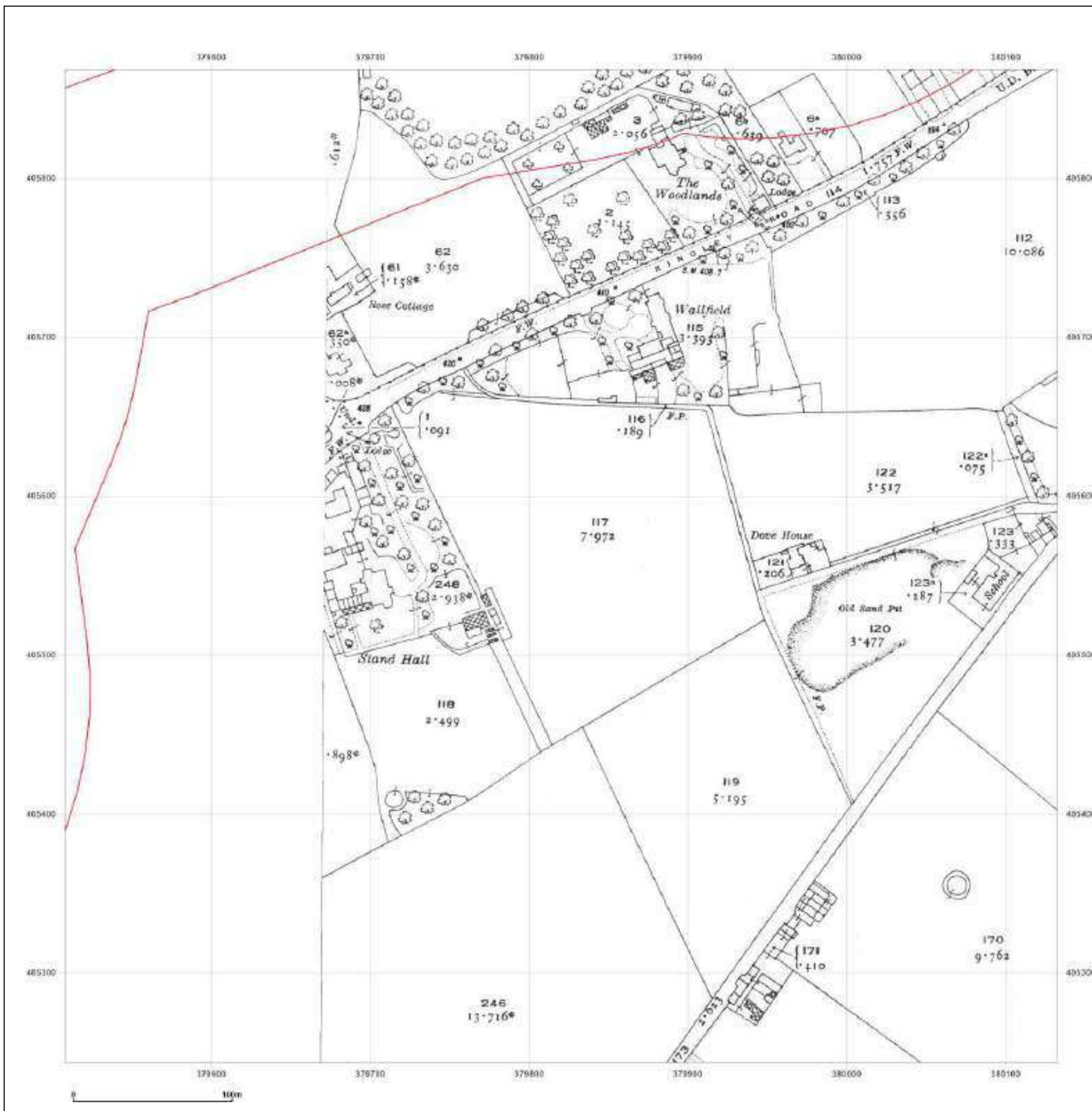


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Site Details:

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ASHBOURNE GROVE,
RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_1
Grid Ref: 379820, 405556

Map Name: County Series

Map date: 1929

Scale: 1:2,500

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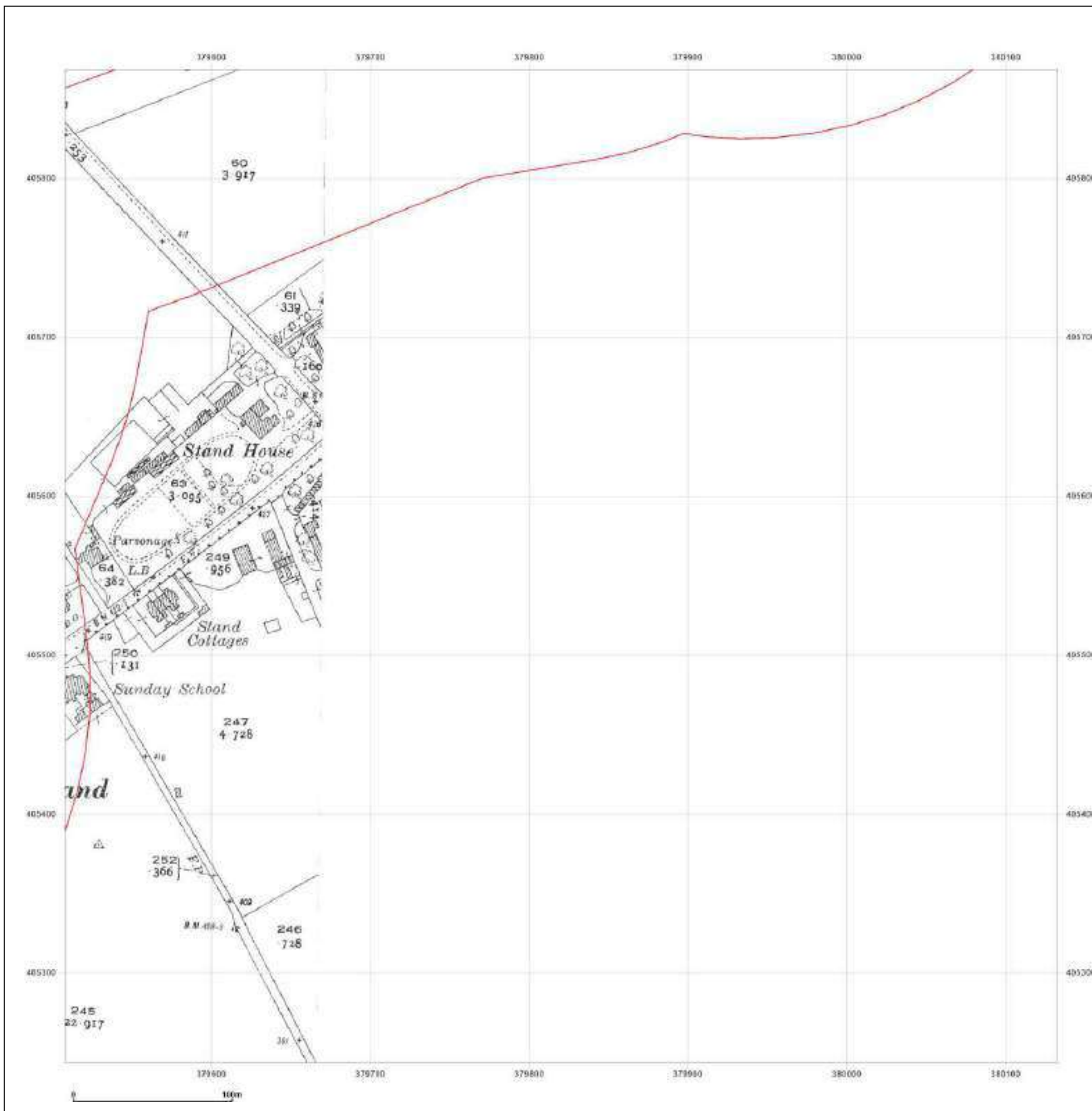


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Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_1
Grid Ref: 379820, 405556

Map Name: County Series

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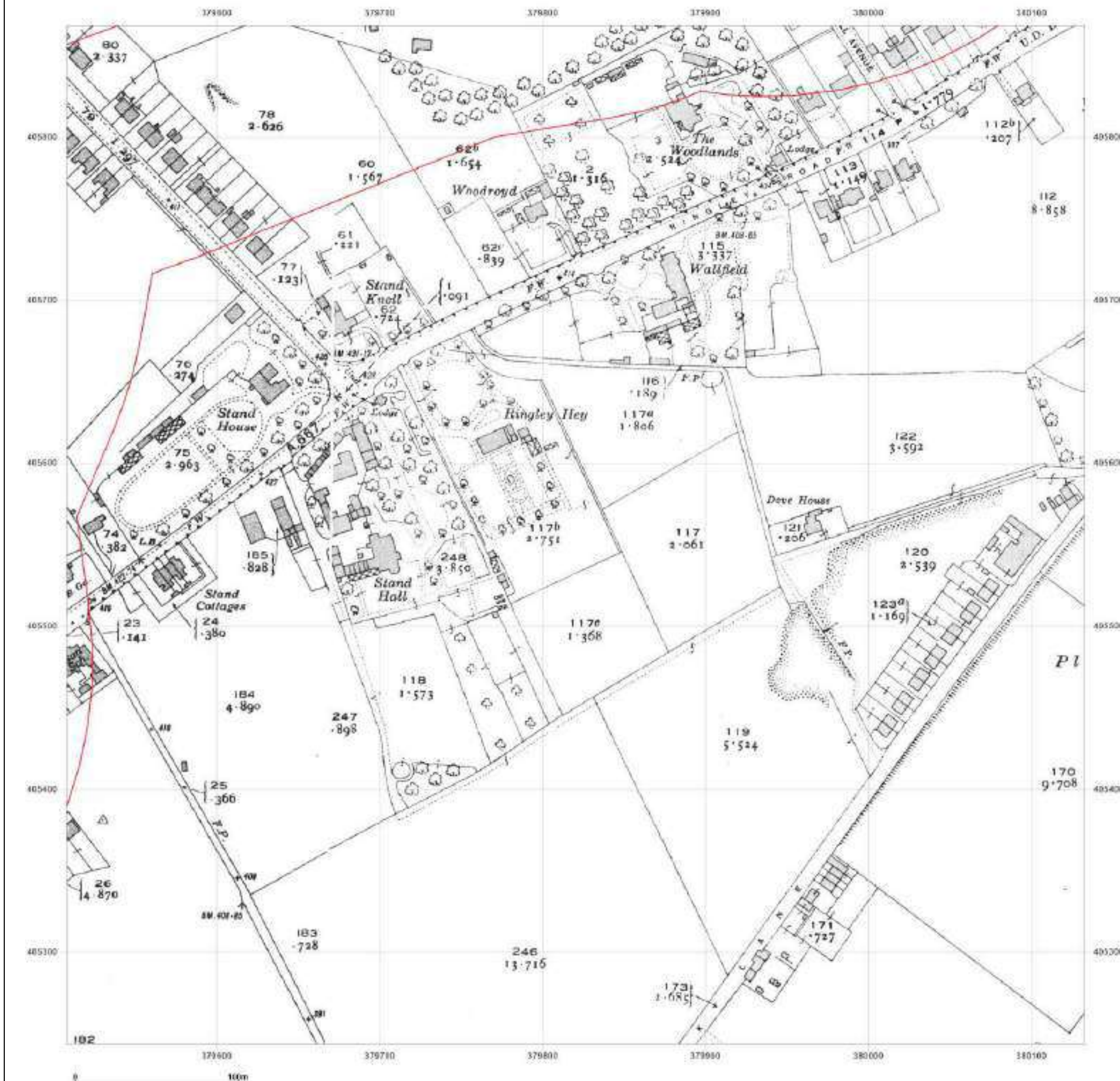


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Grid Ref: 379820, 405556

Map Name: National Grid

Map date: 1956

Scale: 1:2,500

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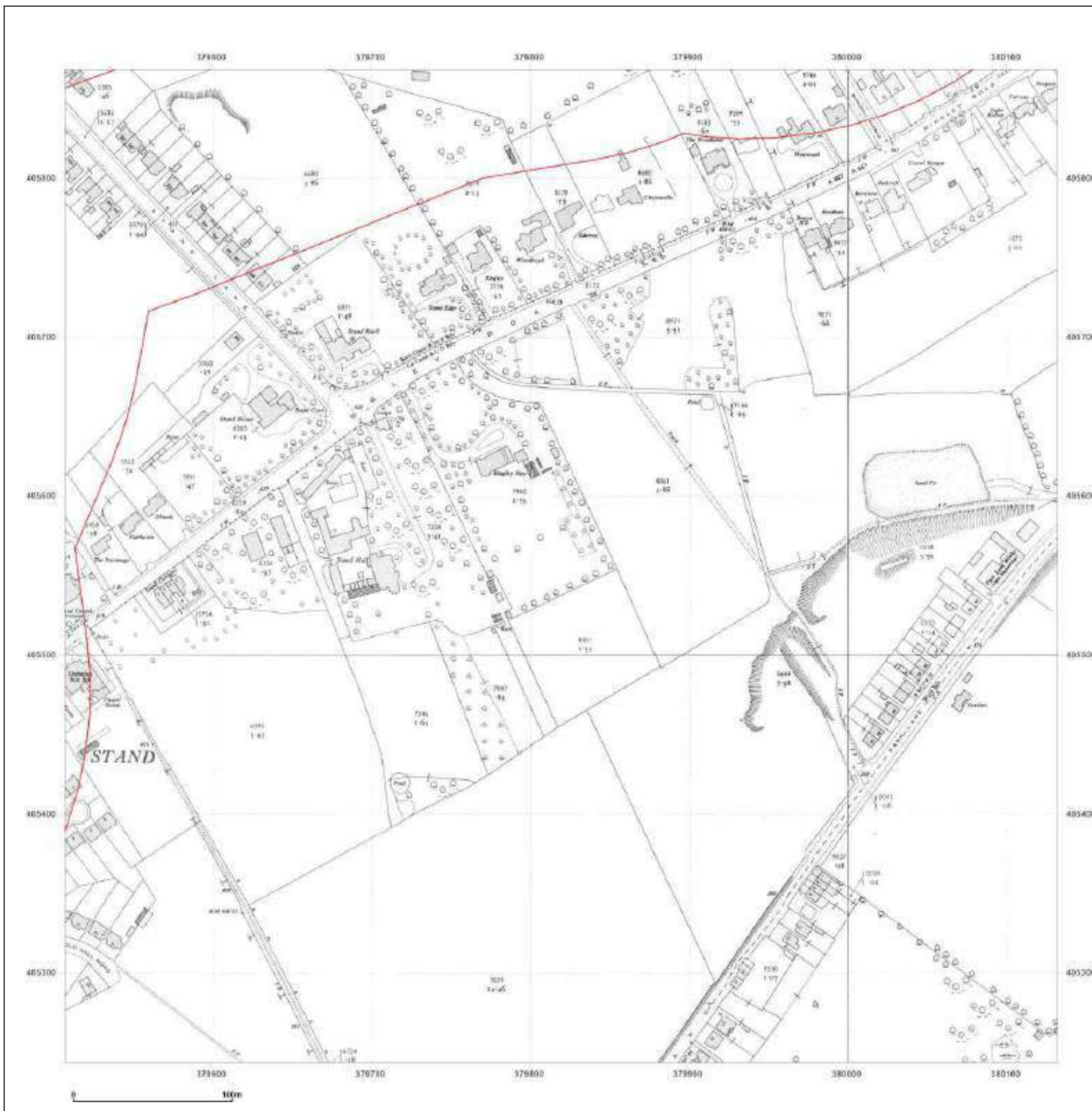


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_1
Grid Ref: 379820, 405556

Map Name: National Grid

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Site Details:

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RADCLIFFE, BURY, M45 7NL

Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_2
Grid Ref: 379820, 406181

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



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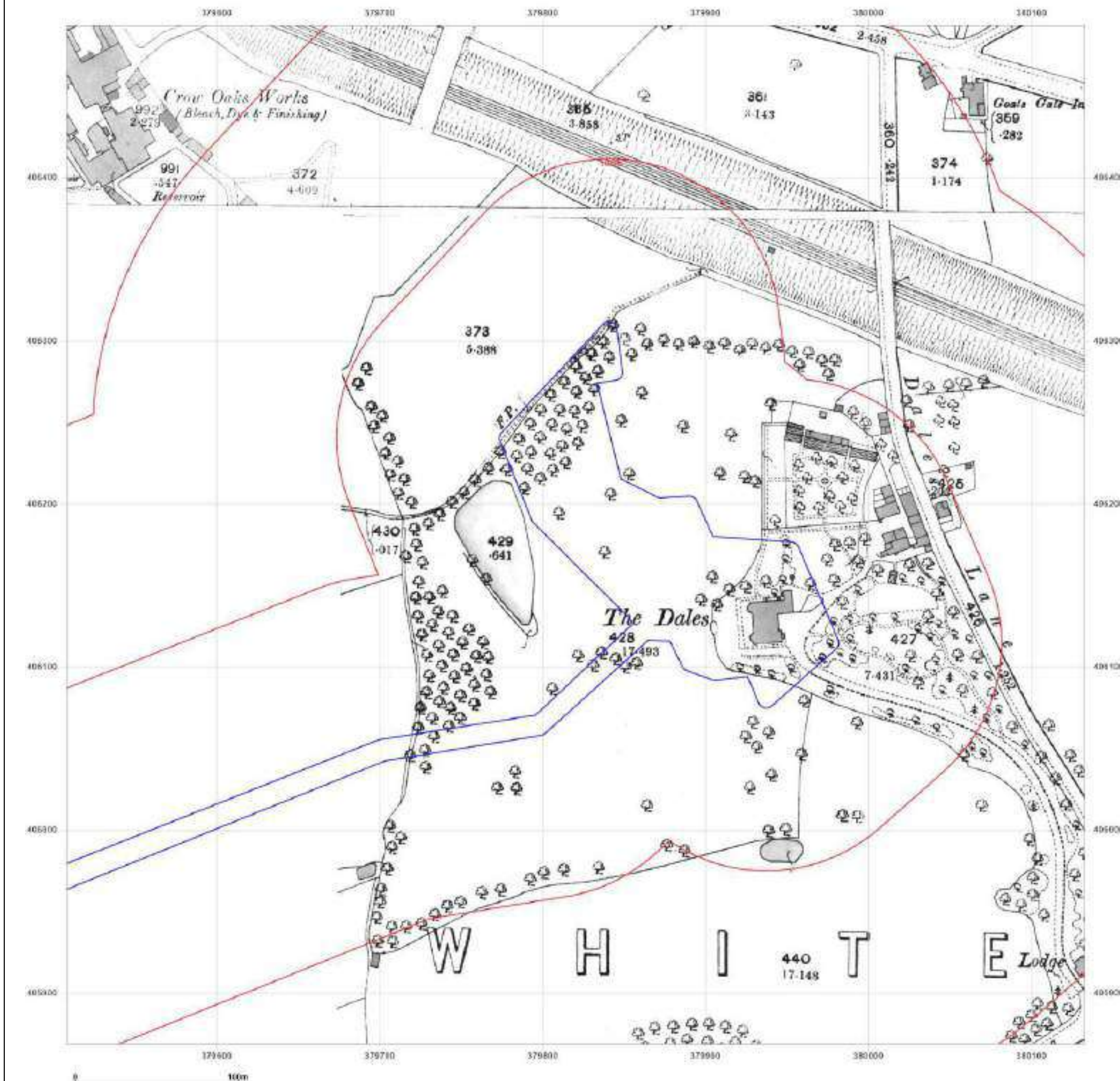


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RADCLIFFE, BURY, M45 7NL

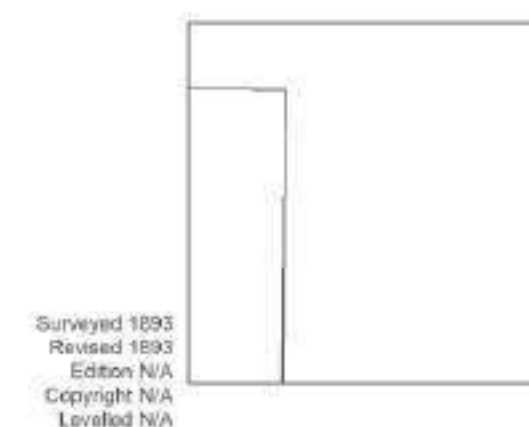
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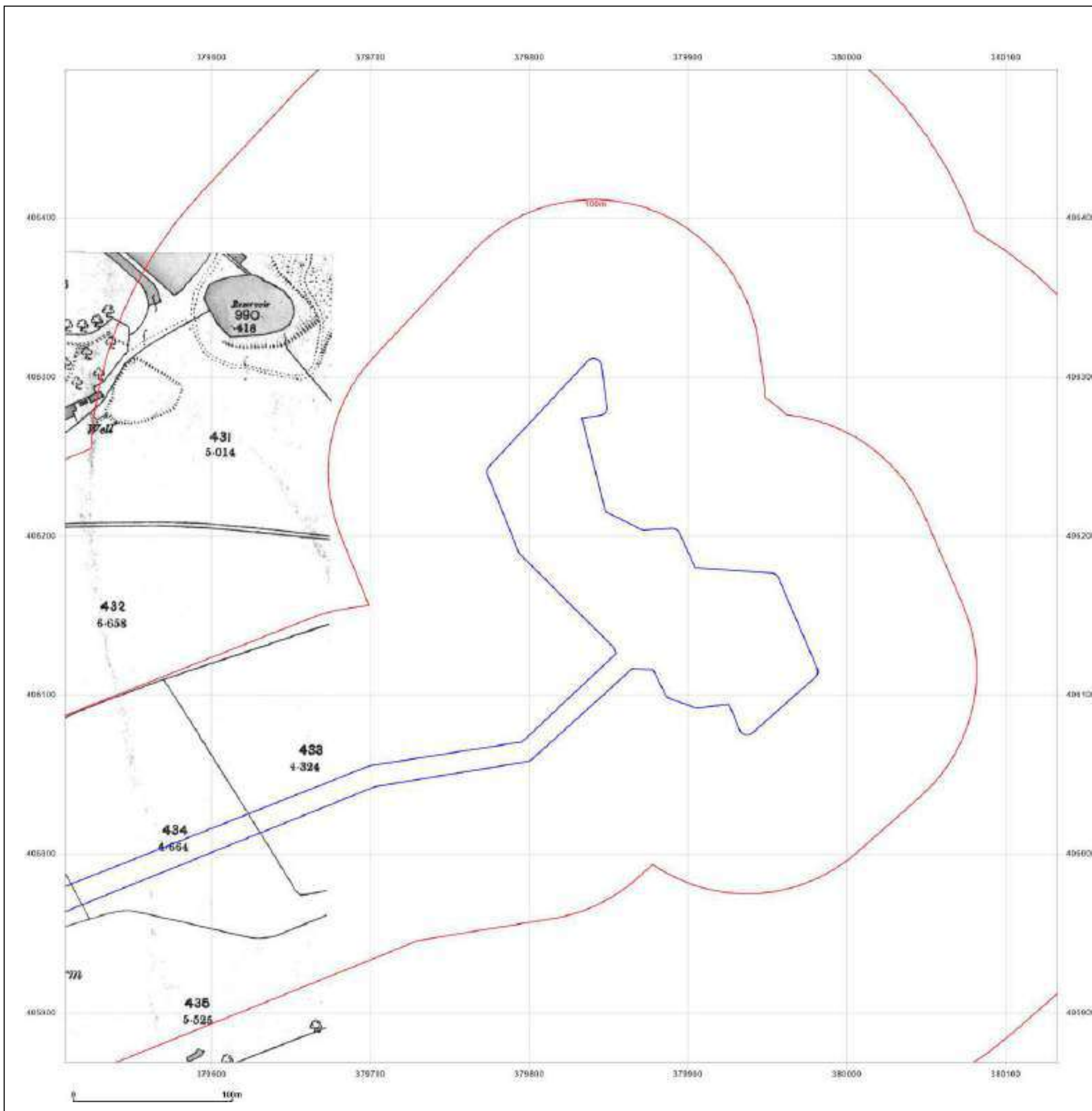


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_2
Grid Ref: 379820, 406181

Map Name: County Series

Map date: 1909

Scale: 1:2,500

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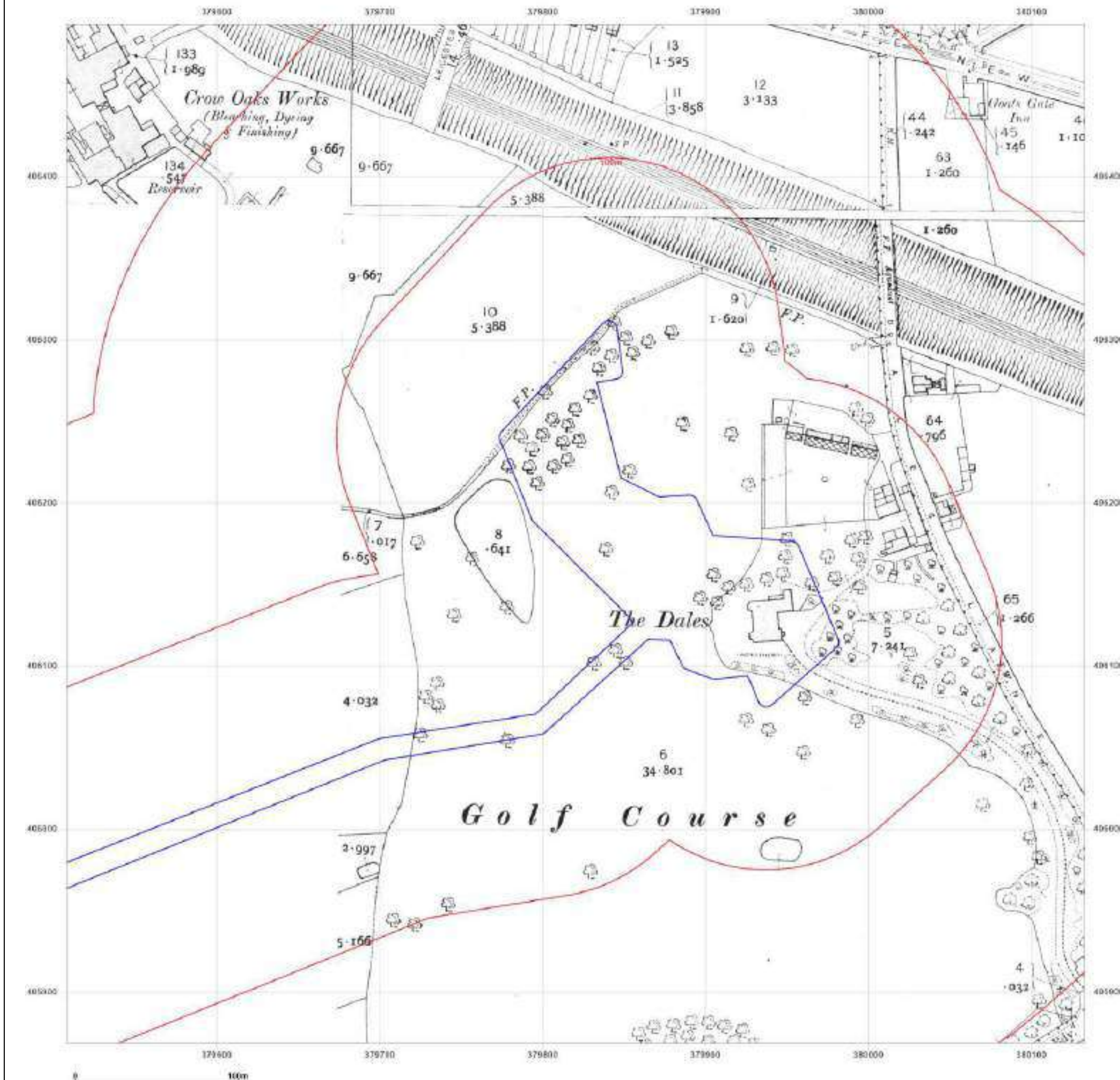


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RADCLIFFE, BURY, M45 7NL

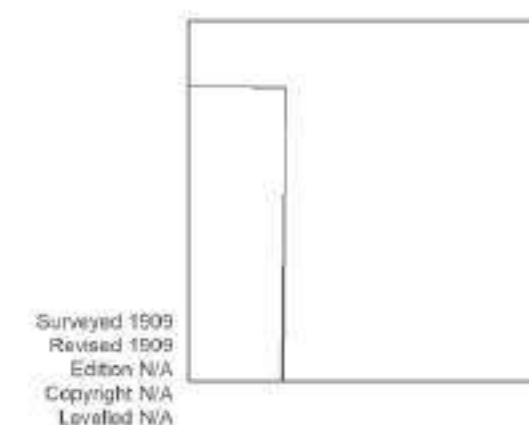
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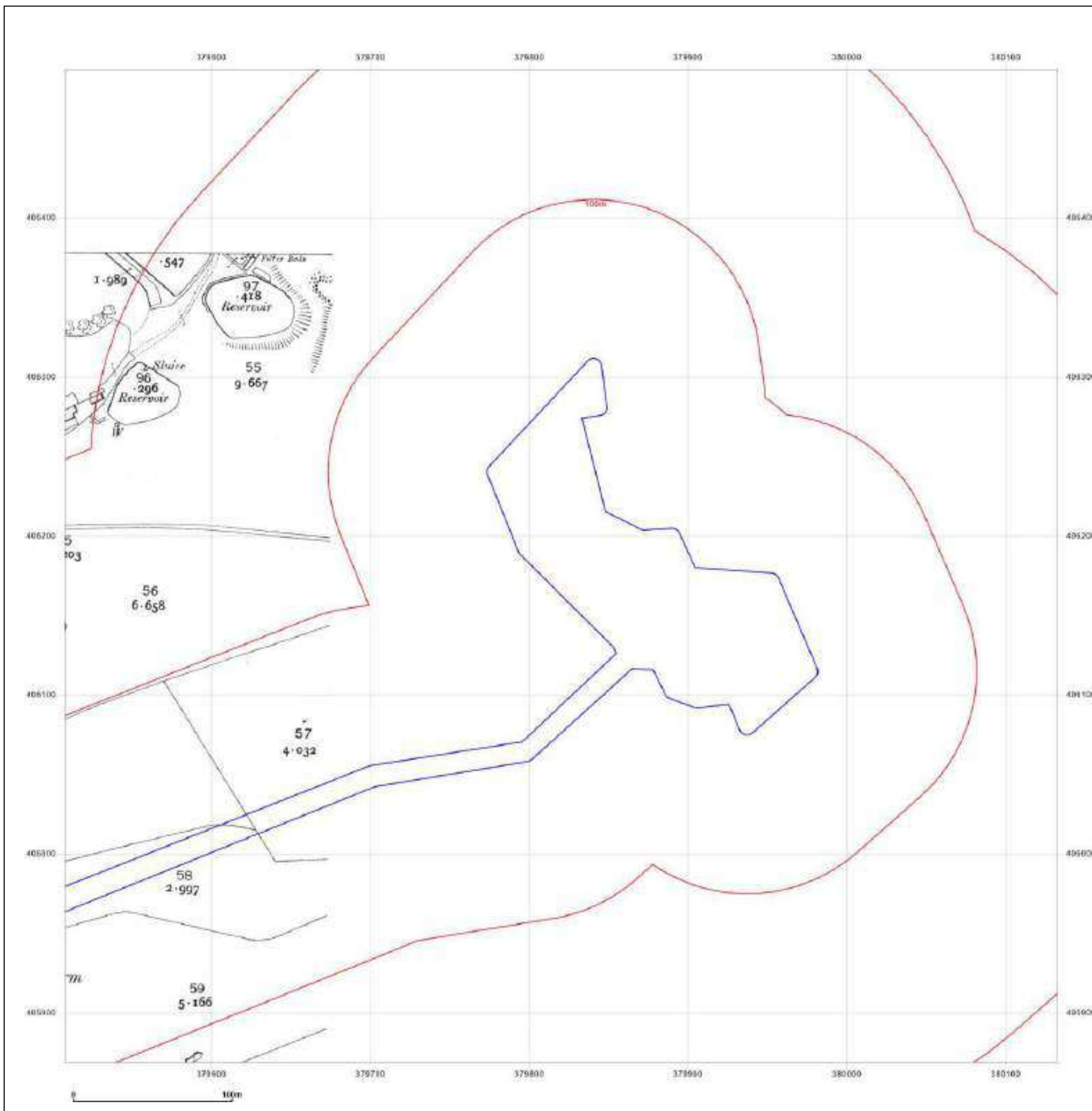


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_2
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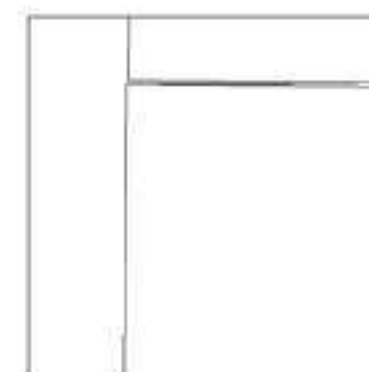
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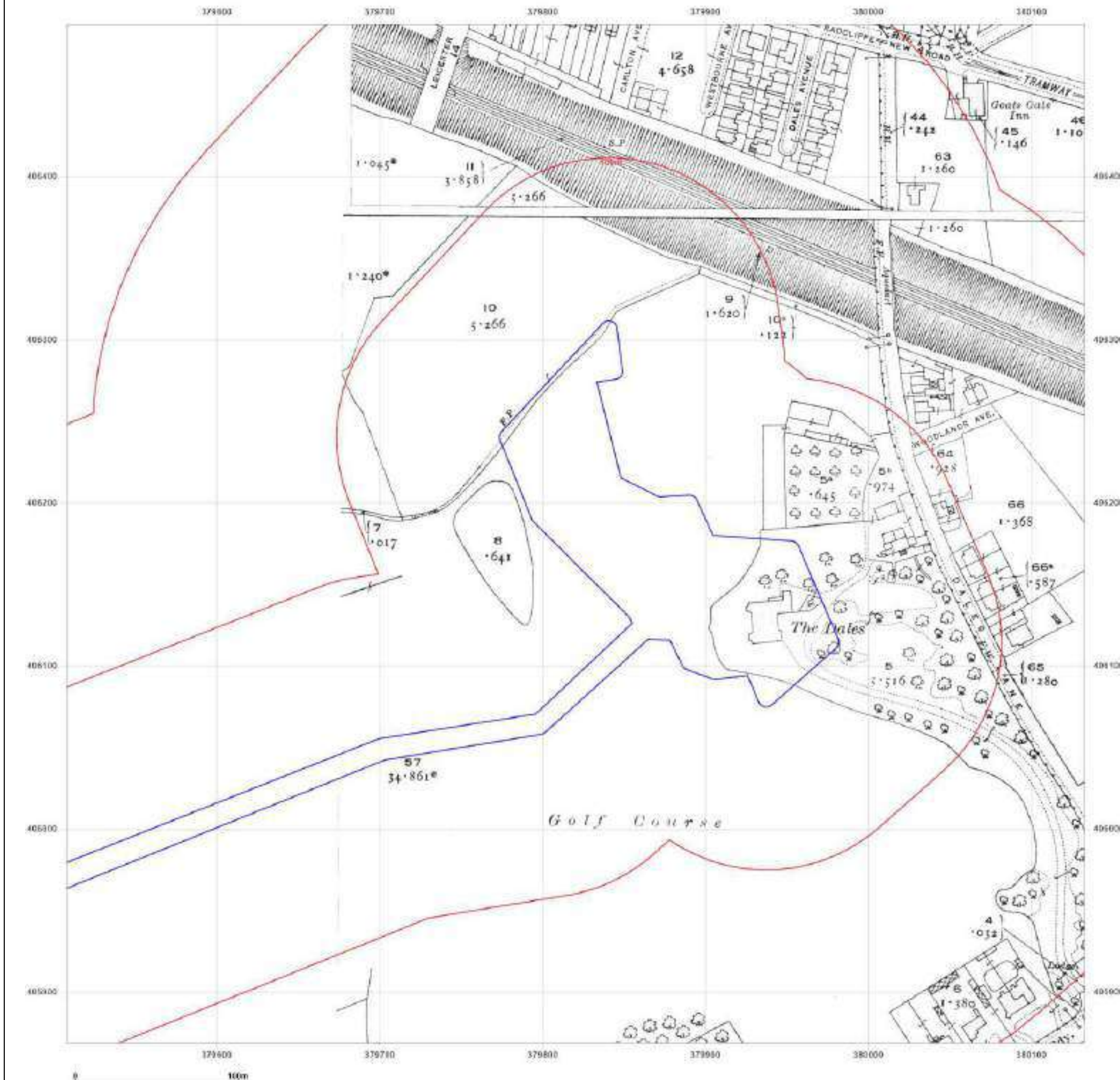


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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_2
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Map Name: County Series

Map date: 1929-1932

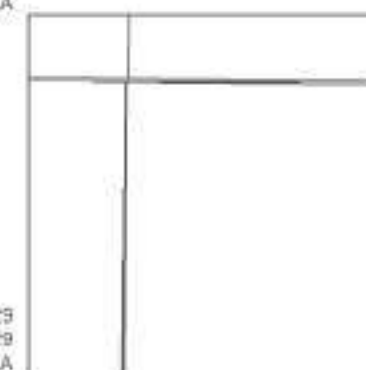
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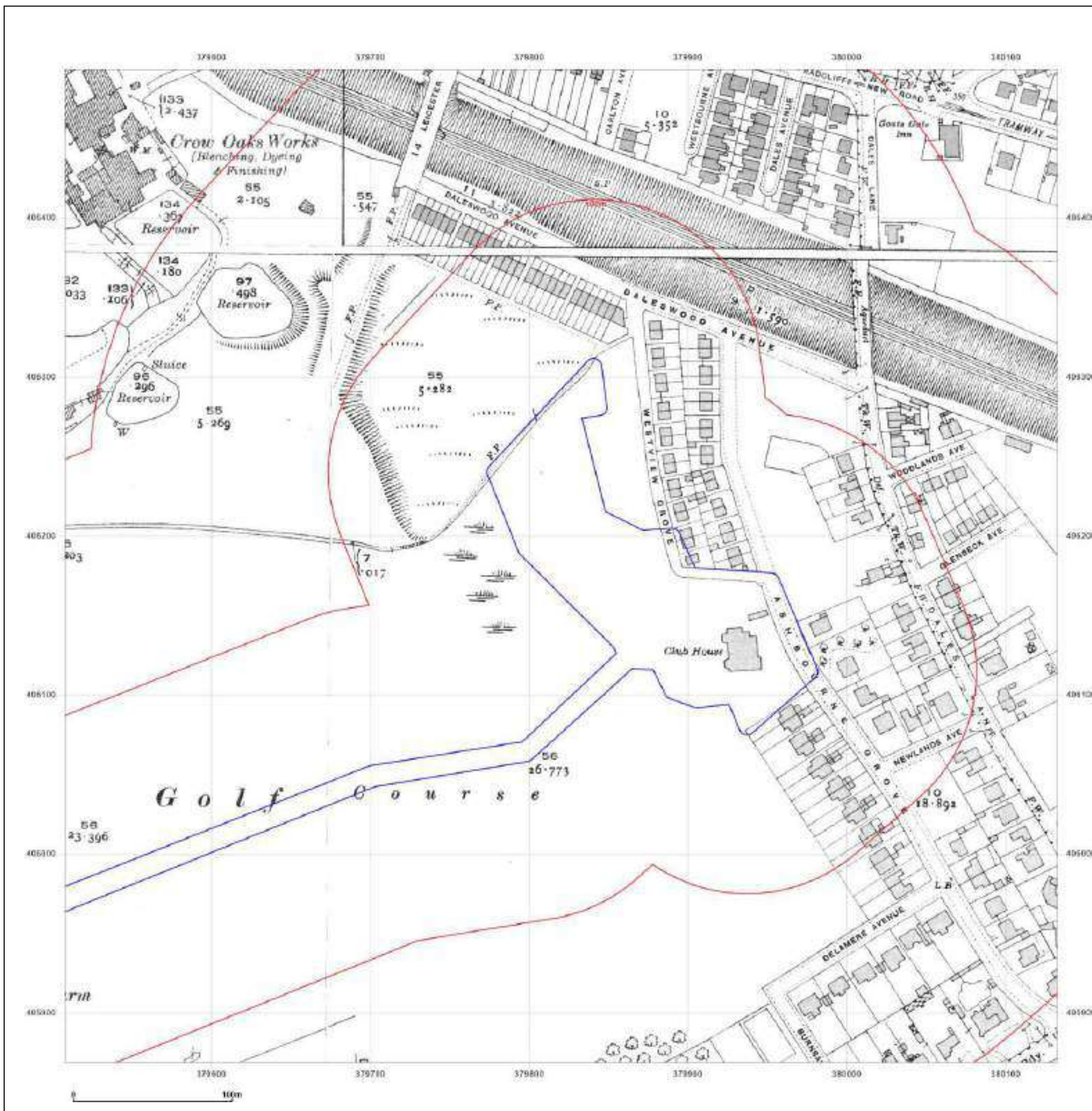


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Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_2
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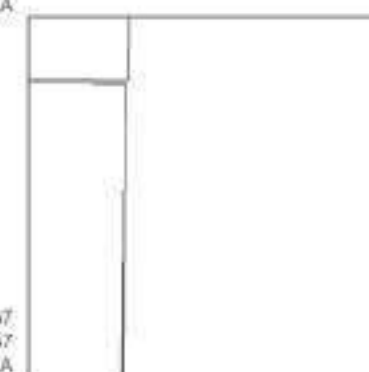
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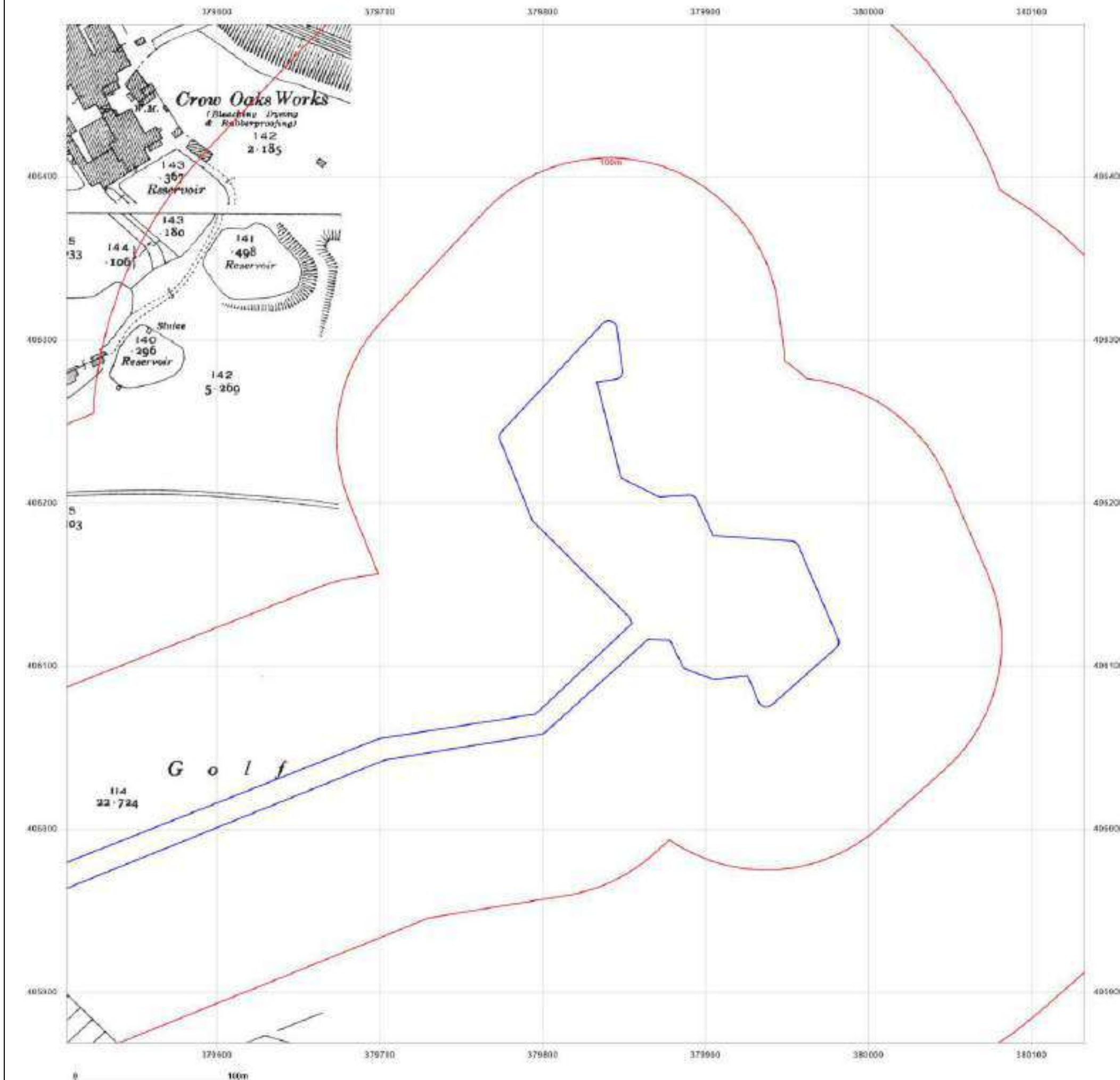


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Site Details:

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Client Ref: 11745G - The Stand
Report Ref: HMD-424-EOT-3KT-GRN-I5W_LS_2_2
Grid Ref: 379820, 406181

Map Name: National Grid

Map date: 1956

Scale: 1:2,500

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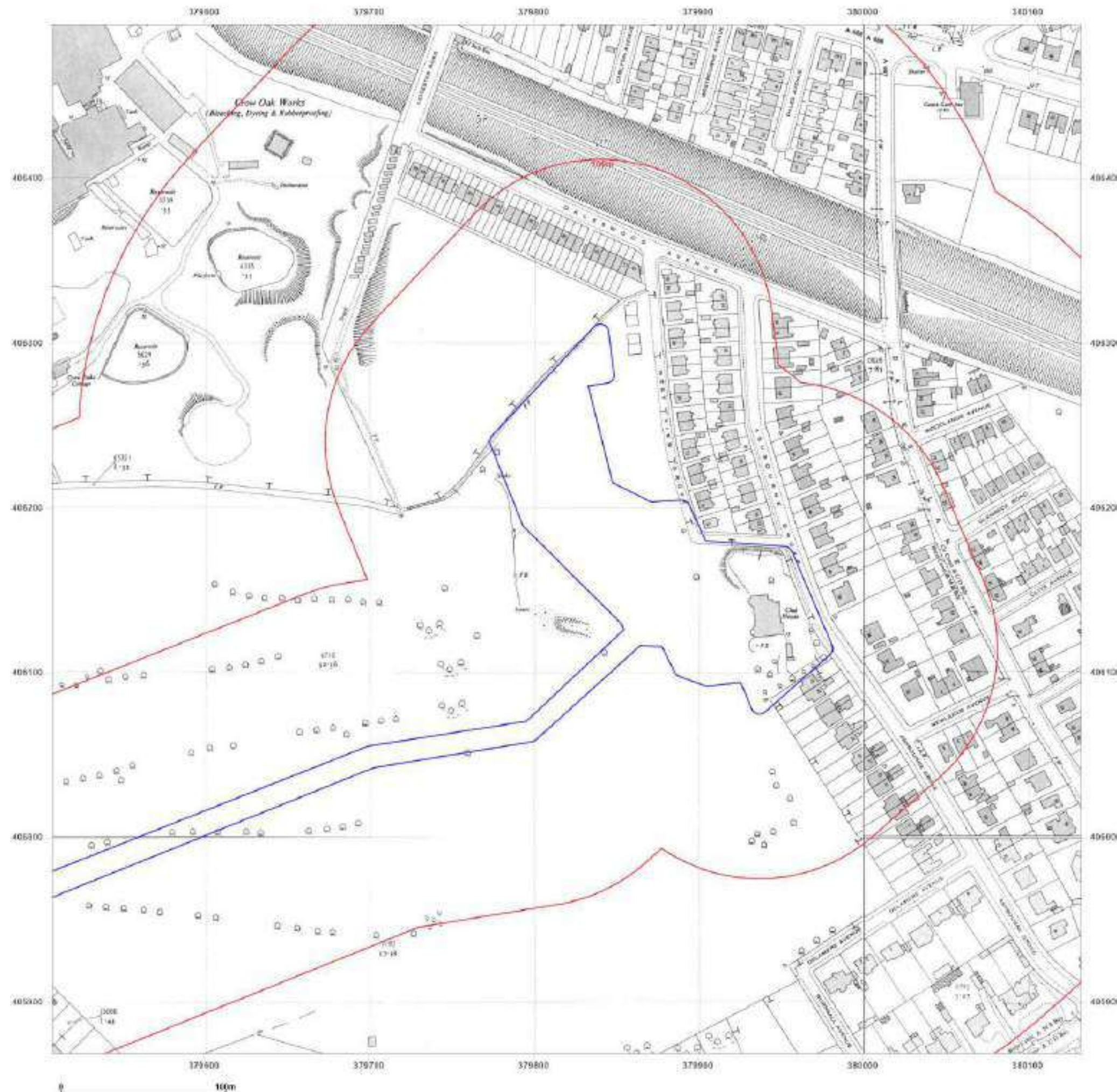


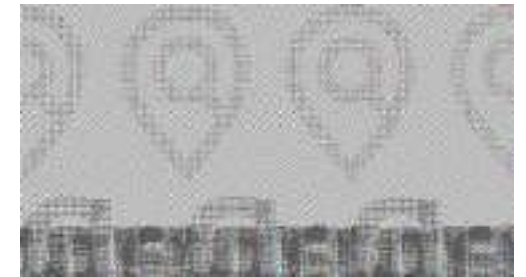
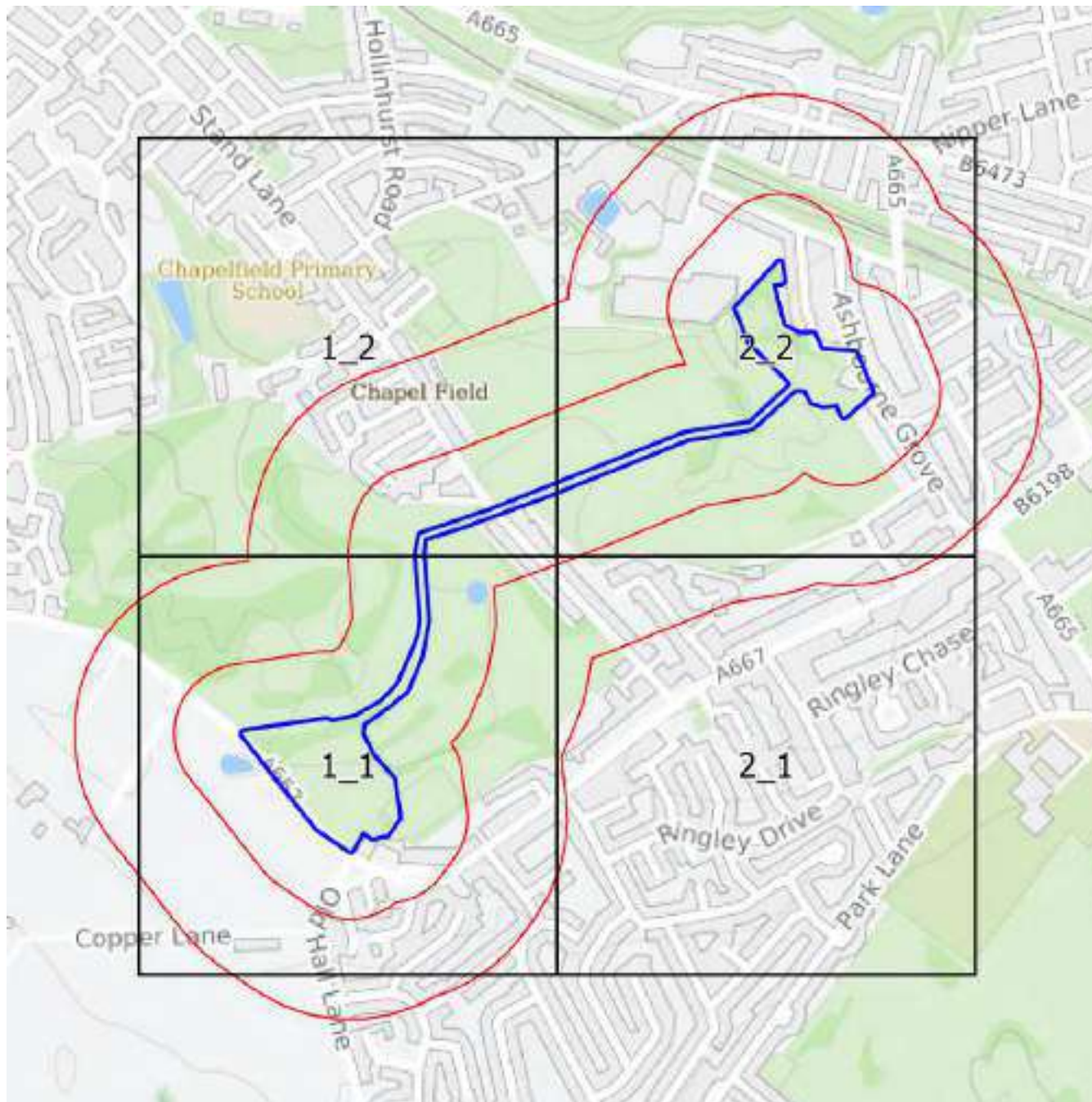
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1:2,500 Scale Grid Index



APPENDIX 04
Coal Authority Report



The Coal
Authority

Consultants Coal Mining Report

Stand Golf Club, Ashbourne Grove,
Radcliffe, Bury
Greater Manchester
M45 7NL

Date of enquiry:	28 October 2024
Date enquiry received:	28 October 2024
Issue date:	28 October 2024

Our reference:	51003459505001
Your reference:	HMD-424-PEZ-KUI-LI1-LPD



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.

Client name

GROUNDSURE LIMITED

Enquiry address

Stand Golf Club, Ashbourne Grove, Radcliffe, Bury
Greater Manchester
M45 7NL

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

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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
unnamed	ROGER	Coal	3YPT	218	North-West	10.0	South-East	200	1900
unnamed	ROGER	Coal	3YPF	288	Beneath Property	30.5	South	120	1971
unnamed	RAMS	Coal	3Y3S	392	Beneath Property	10.0	South-East	180	1870
unnamed	ROGER	Coal	3YVF	441	South	24.8	South-West	120	1970
unnamed	TRENCHERB ONE	Coal	3Z2L	442	South-West	24.1	South	190	1919
unnamed	CANNEL	Coal	3YQC	447	South-West	21.6	South	110	1919

Probable unrecorded shallow workings

Yes.

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:

16696	16697	NW1023
PO0	16699	16700
16820	NW989	NW779

Our records show we have more plans than those shown above which could affect the enquiry boundary.

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

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
WORSLEY FOUR FEET	Coal	Yes	Within	N/A	284

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

None recorded 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 1959.

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.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

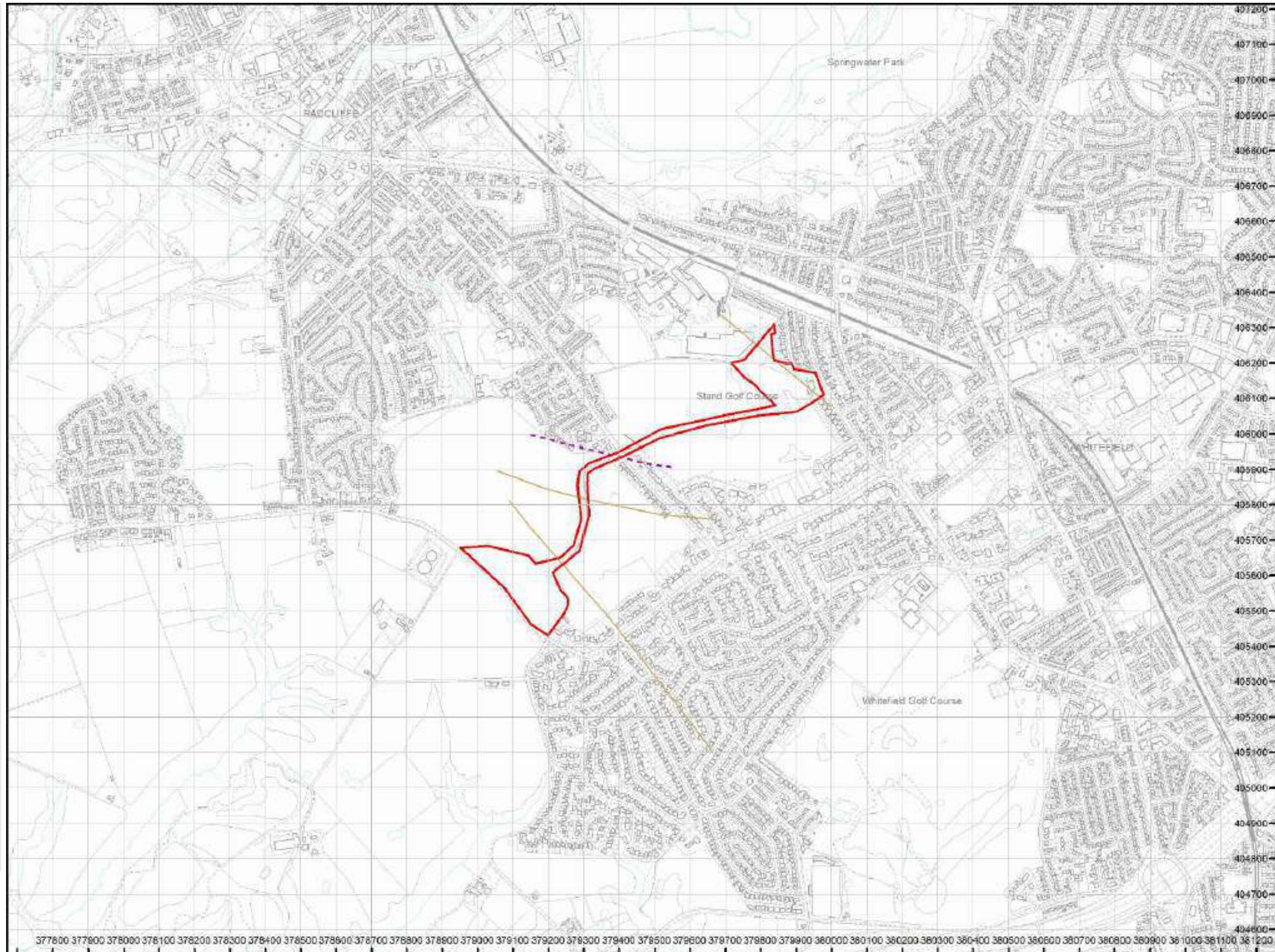
Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown 
- Outcrop (Conjectured) 
- Geological faults 



How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

APPENDIX 05

Qualitative Risk Assessment Guidance

Qualitative Risk Assessment Guidance

The Preliminary Contamination Risk Assessment methodology within the Phase 1 Desk Study Report is undertaken with reference to the following CIRIA guidance.

- Contaminated Land Risk Assessment - A Guide to Good Practice CIRIA C552:2001.

In practical terms, risk evaluation is undertaken in order to ascertain if potential risks are considered to be acceptable via classification following factors.

- The magnitude of the potential **consequences** (severity) of the risk occurring.
- The magnitude of the **probability** (likelihood) of the risks occurring.
- The potential consequences of contamination risks occurring at the Site should be classified in accordance with the following table which is adapted from Table 6.3 in the CIRIA guidance.

Table 1 Classification of Consequence

Classification	Definition
Severe	Short term (acute) risk to human health likely to result in 'significant harm' as defined by the <i>Environment Protection Act 1990</i> , Part IIA. Short term risk of (significant) pollution of sensitive water resource or ecosystem. Catastrophic damage to building/property. Short term risk to a particular ecosystem, or organism forming part of such an ecosystem.
Medium	Chronic damage to human health (significant harm). Pollution of sensitive water resources. A significant change in a particular ecosystem, or an organism forming part of such an ecosystem.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services. Damage to sensitive buildings/structures/services or the environment.
Minor	Harm, although not necessarily significant harm, which may results in a financial loss, or expenditure to resolve. Non-permanent, easily preventable effects to human health. Easily repairable damage to buildings, structures and services.

The probability or likelihood of a risk occurring is then classified in accordance with Table 6.4 in the CIRIA Guidance which is also reproduced in Table 2 below.

Table 2 Classification of Probability

Classification / Likelihood	Definition
High	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution.
Likely	There is a pollutant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period that such an event would take place and is even less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

These classifications are then compared to indicate the risk to each pollution linkage. For each likelihood scenario, it will be assumed that a pollution linkage exists between the source and any potential receptors. The classification is not applied if no active pollution linkage is perceived to exist.

Upon classification of both the consequences and probability, the two can be compared in Table 6.5 within the guidance, in order to produce a risk category rating. The risk categories range from 'Very High Risk' to 'Very Low Risk' and should be determined for each potential pollutant linkage as oppose to each receptor or hazard as indicated above.

The matrix table is reproduced in Table 3 below.

Table 3 Consequence Vs Probability Matrix

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk
	Likely	High Risk	Moderate Risk	Moderate / Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate / Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate / Low Risk	Low Risk	Very Low Risk	Very Low Risk

The outcome of the Consequence vs Probability matrix should be compared to the risk definitions and likely actions required in Table 4 (Table 6.6 in CIRIA C552).

The outcome will then determine the overall risk category for the site and should form the basis for any proposed investigation work and remedial actions to be determined. The assessment is based on a qualitative approach at the initial Phase 1 Desk Study, and should be updated following the results of any subsequent ground investigation results.

Table 4 Definitions of Classified Risks and Likely Required Actions

Risk Category	Definition
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard OR, there is evidence that severe harm to a designated receptor is currently happening. This risk (if realised) is likely to result in a substantial liability. <u>Required Actions</u> <i>Urgent investigation (if not undertaken already) and remediation are likely to be required.</i>
High	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. <u>Required Actions</u> <i>Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.</i>
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, if it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is likely that the harm would be relatively mild. <i>Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.</i>
Low	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.