

Site Details:

XAVERIAN COLLEGE,
XAVERIAN COLLEGE, LOWER
PARK ROAD, MANCHESTER,
M14 5RB

Client Ref: 10961G
Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: County Series

Map date: 1932-1934

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1932
Edition 1932
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Surveyed 1844
Revised 1934
Edition 1934
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Levelled 1927

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Revised 1934
Edition 1934
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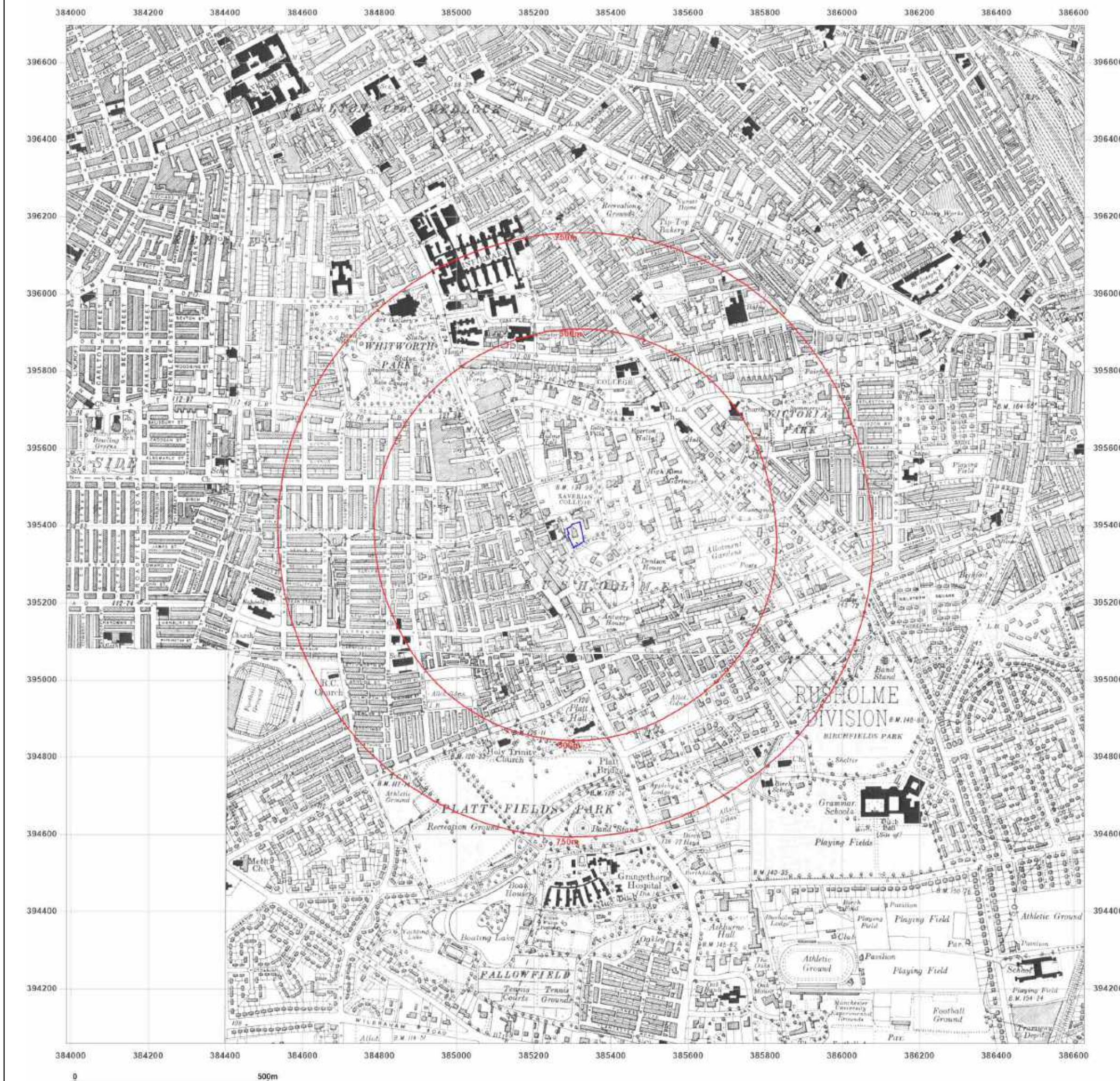


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PARK ROAD, MANCHESTER,
M14 5RB

Client Ref: 10961G
Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



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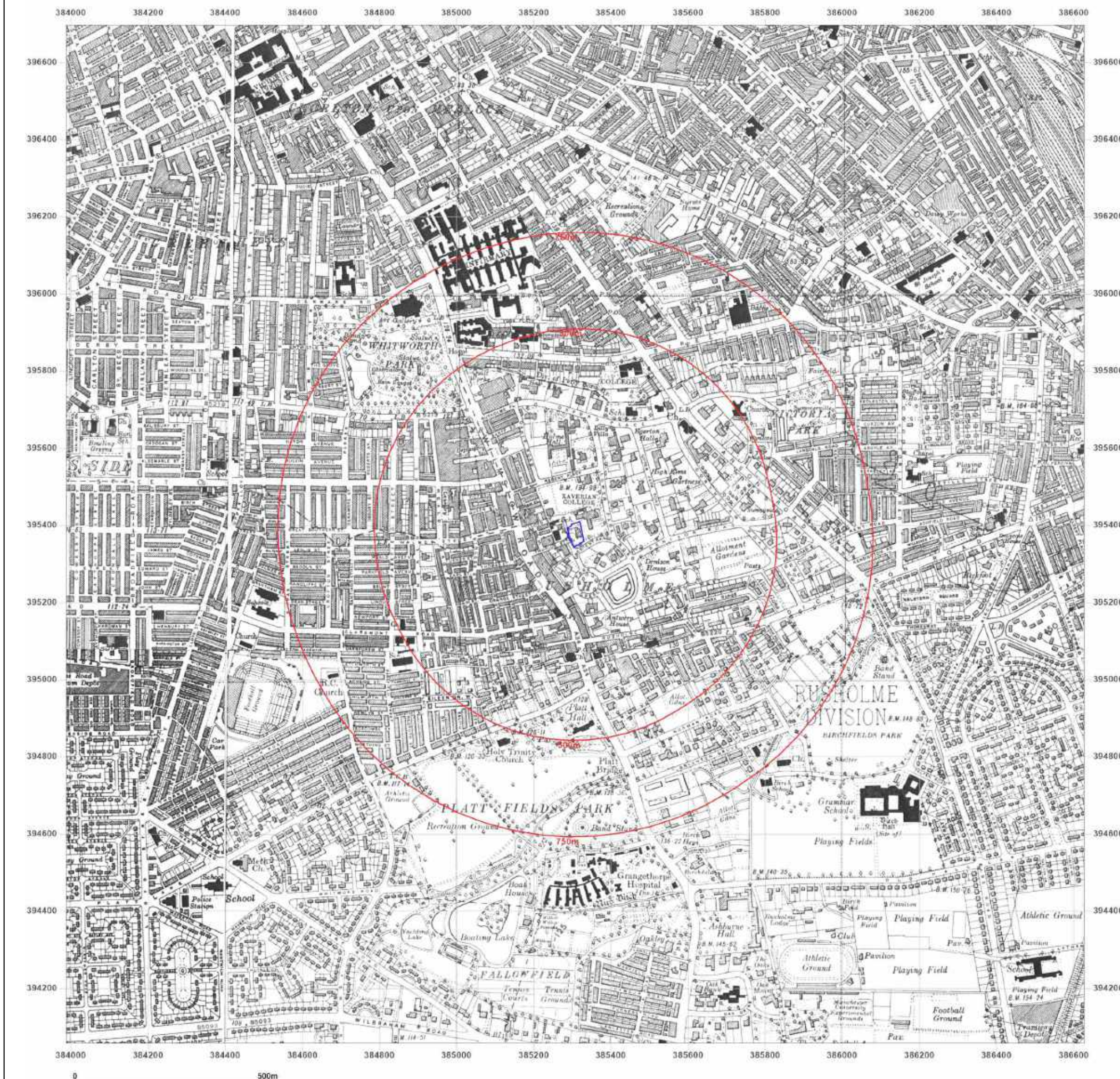


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M14 5RB

Client Ref: 10961G
Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

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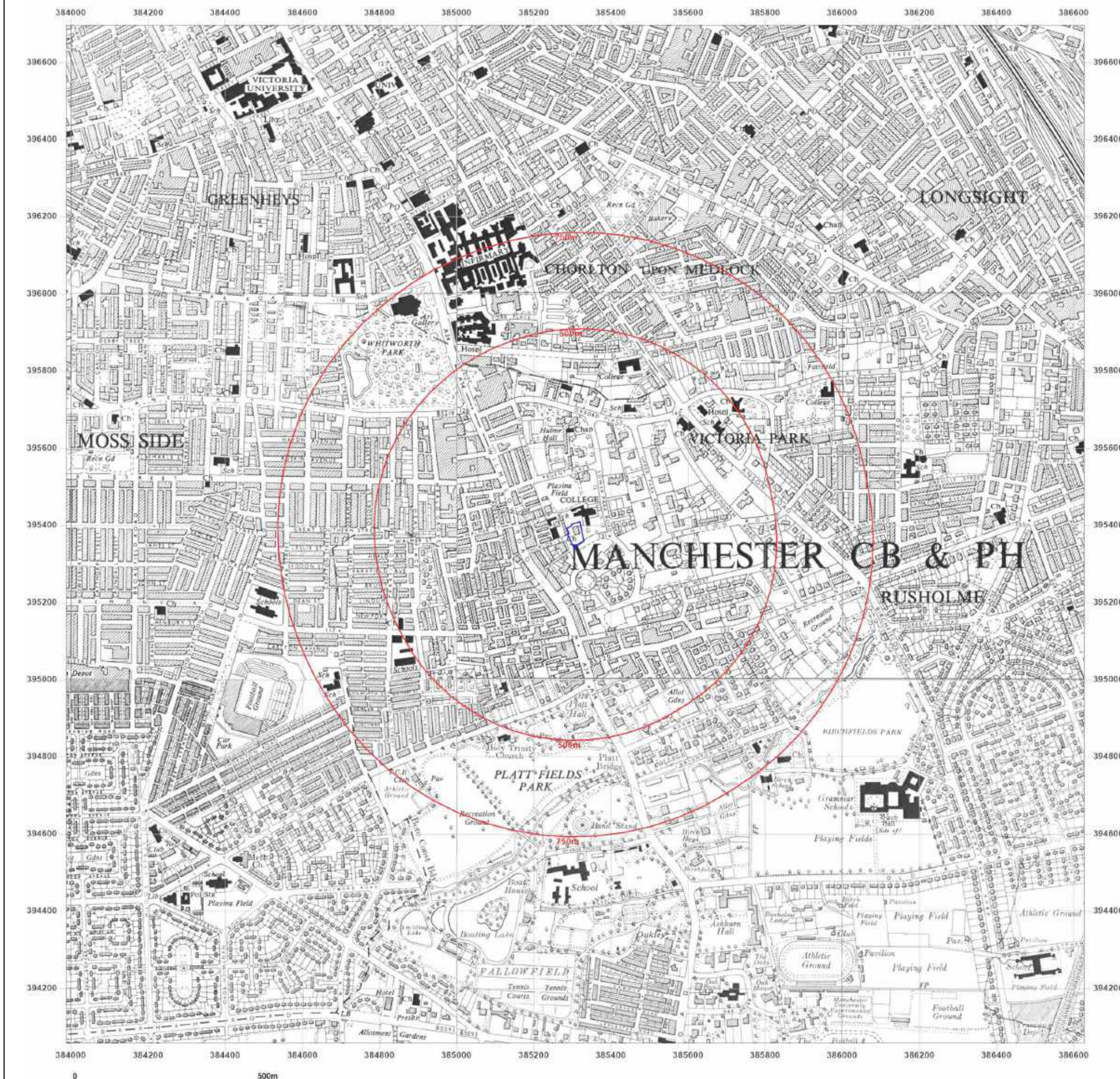


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M14 5RB

Client Ref: 10961G
Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: Provisional

Map date: 1965-1968

Scale: 1:10,560

Printed at: 1:10,560



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Surveyed 1965
Revised 1965
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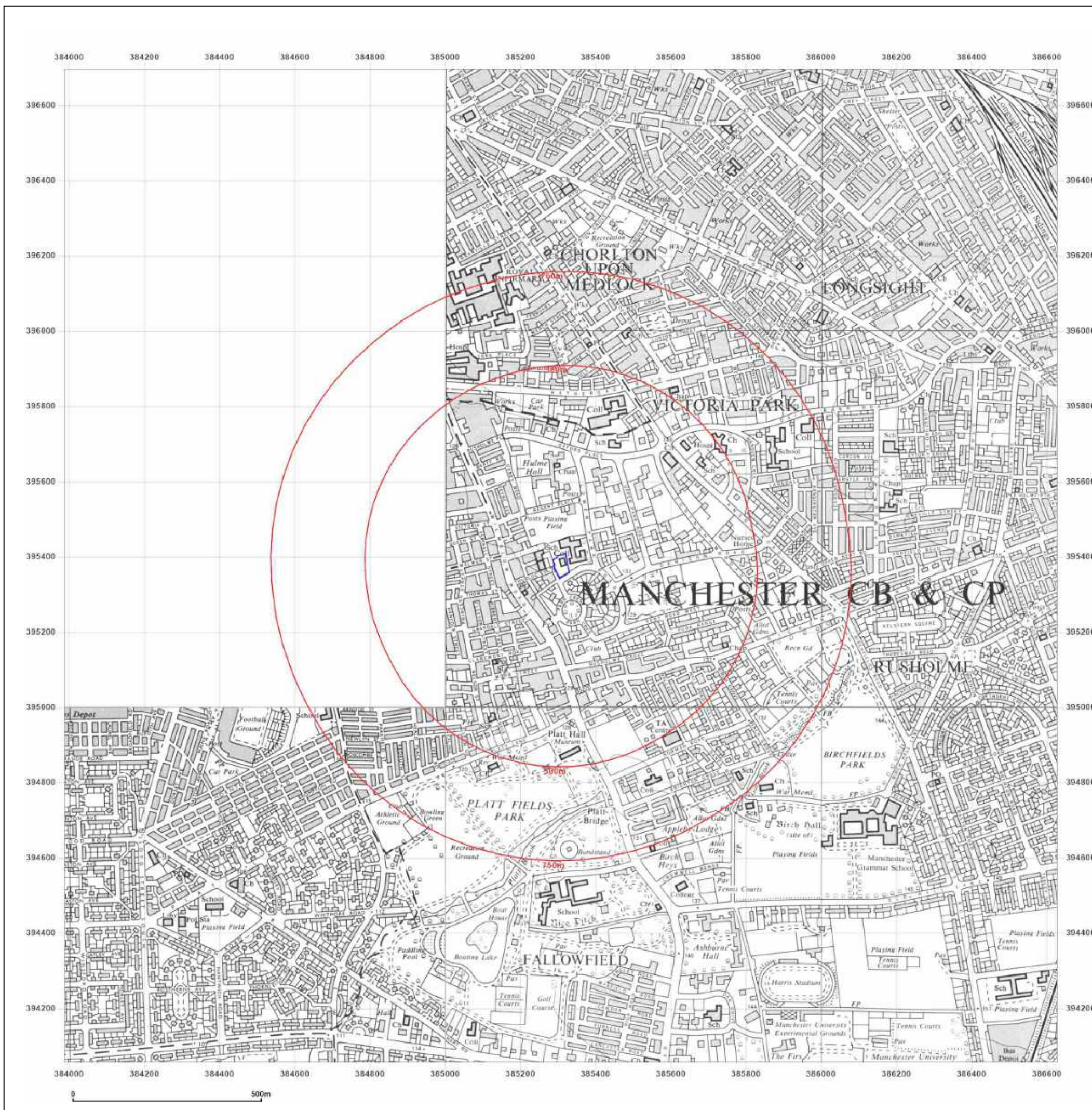


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PARK ROAD, MANCHESTER,
M14 5RB

Client Ref: 10961G
Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: National Grid

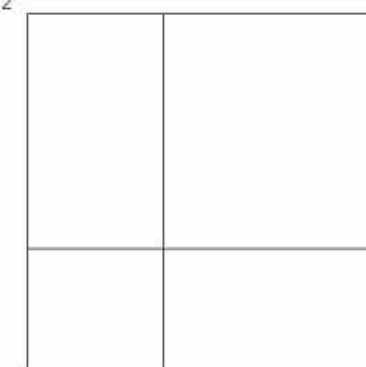
Map date: 1972-1976

Scale: 1:10,000

Printed at: 1:10,000



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Edition N/A
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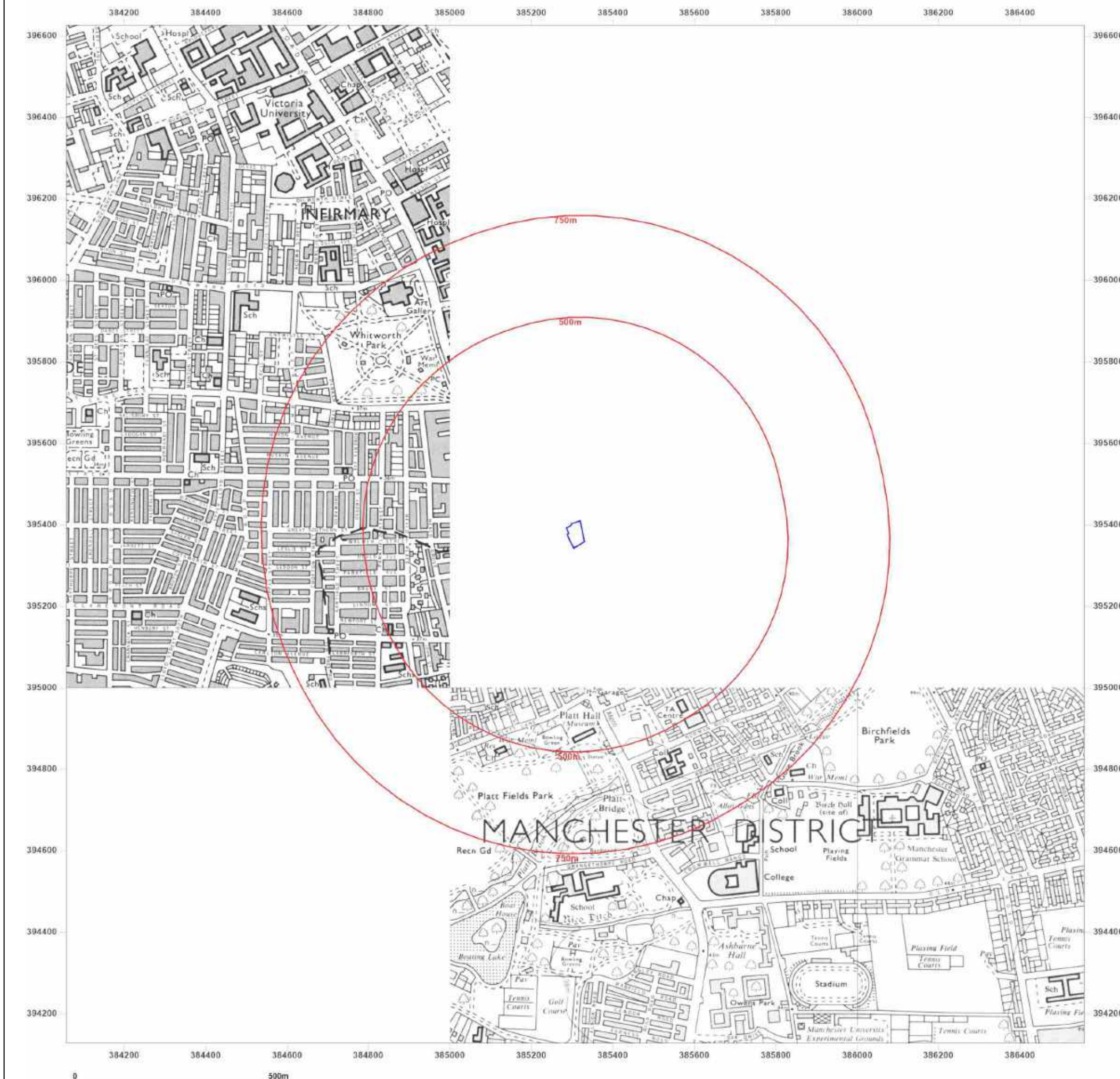


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PARK ROAD, MANCHESTER,
M14 5RB

Client Ref: 10961G
Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: National Grid

Map date: 1980-1983

Scale: 1:10,000

Printed at: 1:10,000



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Revised 1981
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Revised 1983
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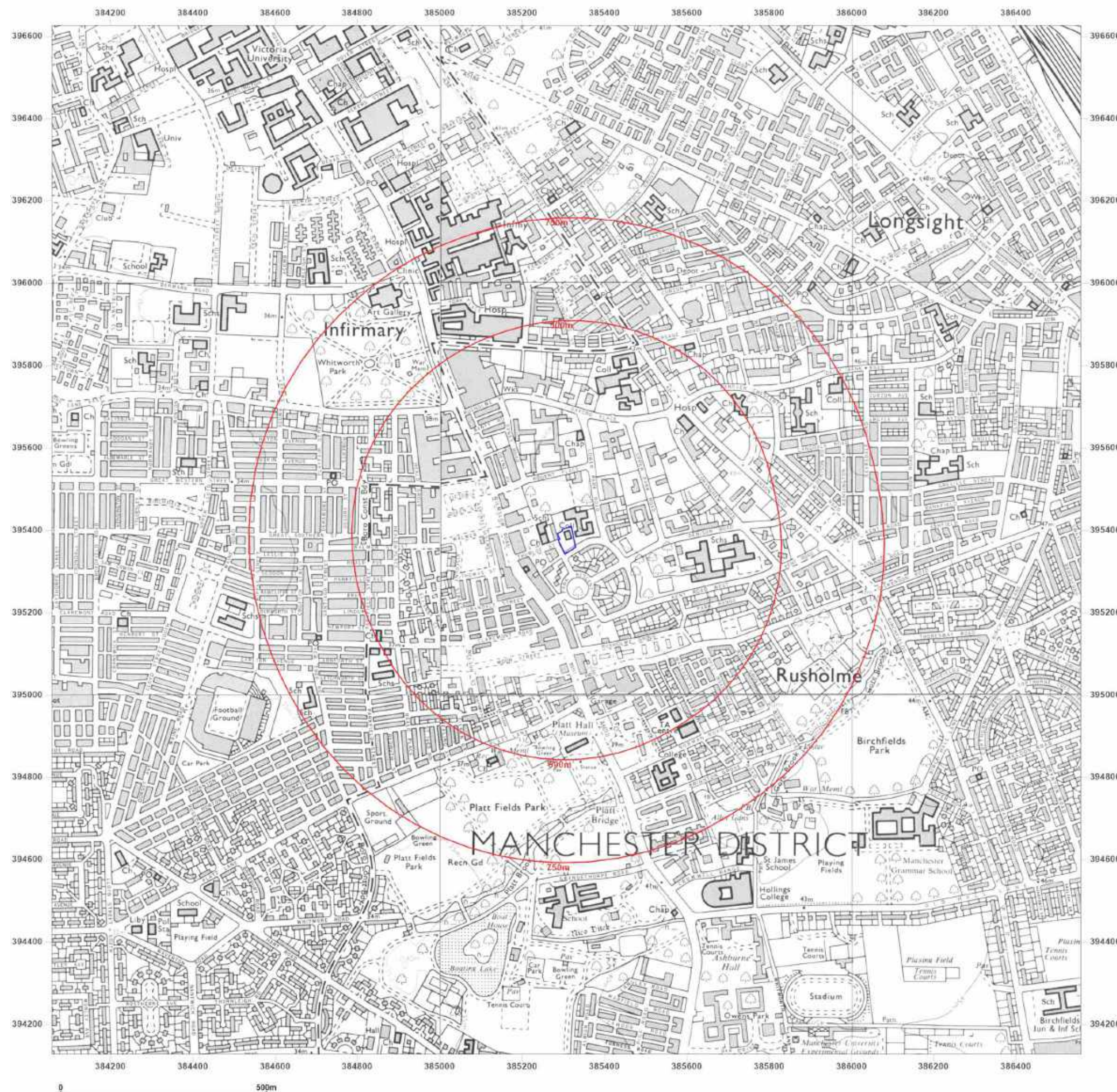


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PARK ROAD, MANCHESTER,
M14 5RB

Client Ref: 10961G
Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: National Grid

Map date: 1985-1989

Scale: 1:10,000

Printed at: 1:10,000



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Edition N/A
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Revised 1985
Edition N/A
Copyright 1985
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Copyright 1988
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Surveyed 1986
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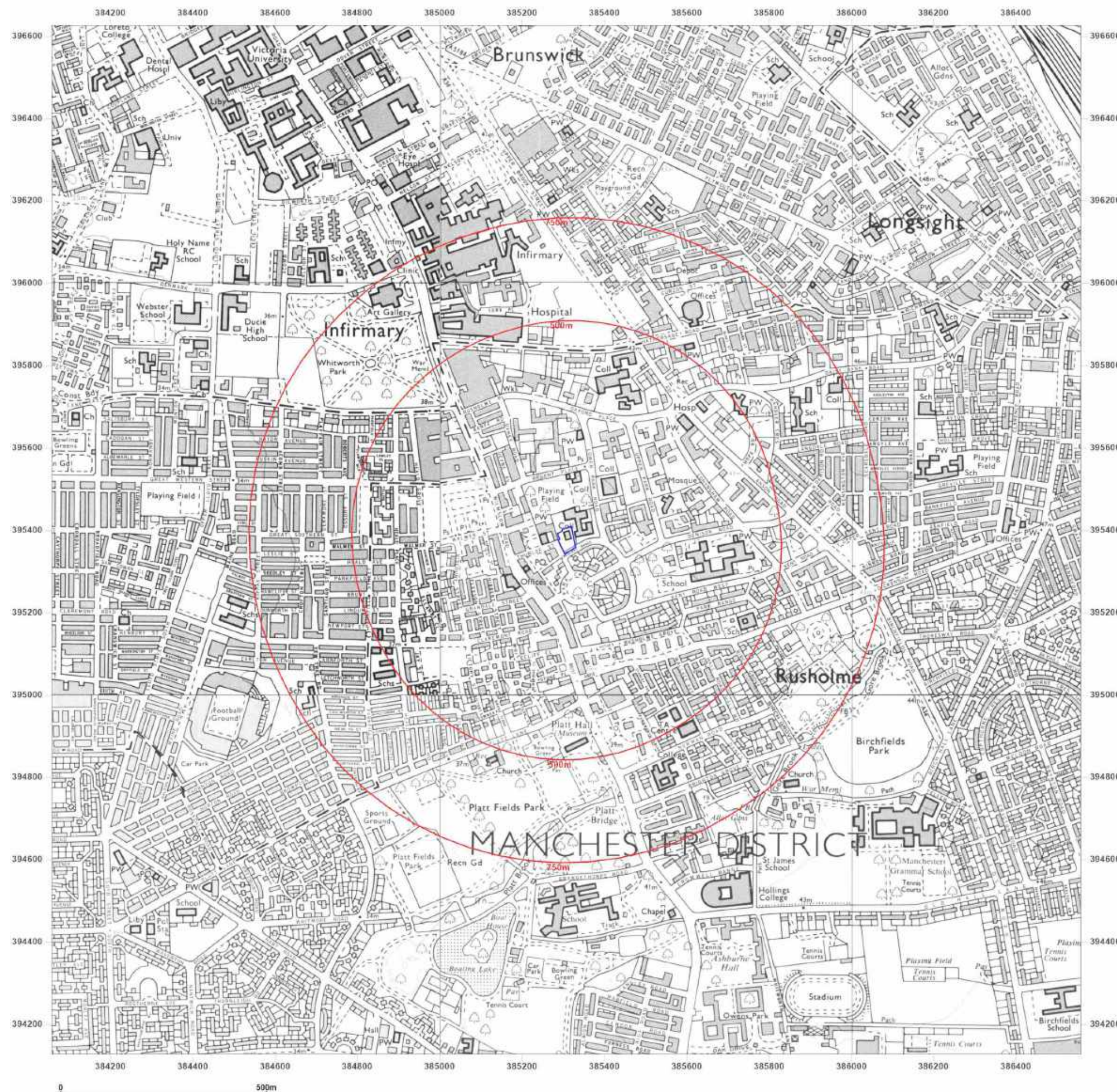


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Site Details:

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PARK ROAD, MANCHESTER,
M14 5RB

Client Ref: 10961G
Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: National Grid

Map date: 1988-1991

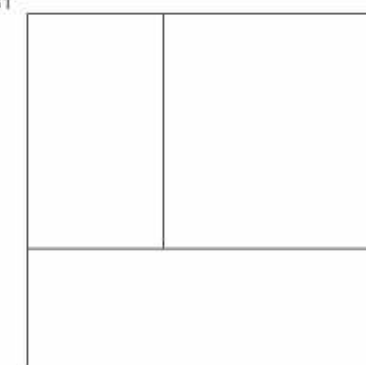
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Edition N/A
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Revised 1991
Edition N/A
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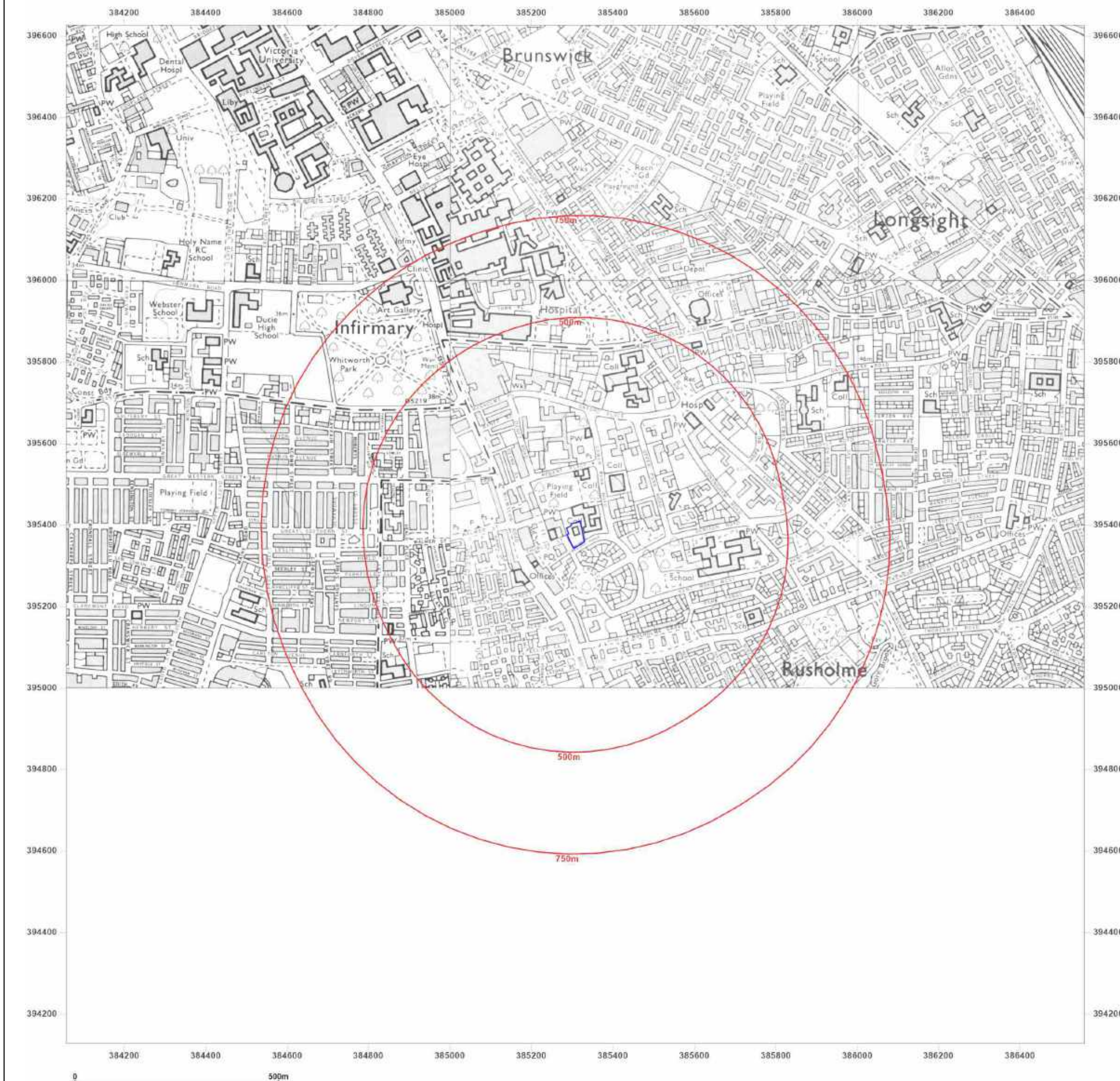


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M14 5RB

Client Ref: 10961G
Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: National Grid

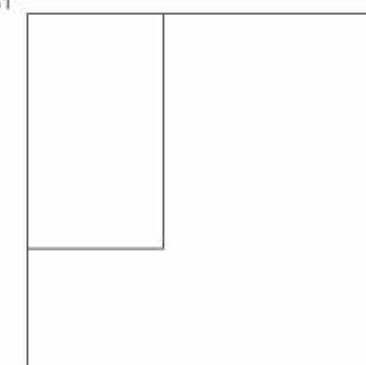
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Scale: 1:10,000

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Surveyed 1986
Revised 1994
Edition N/A
Copyright 1994
Levelled 1981

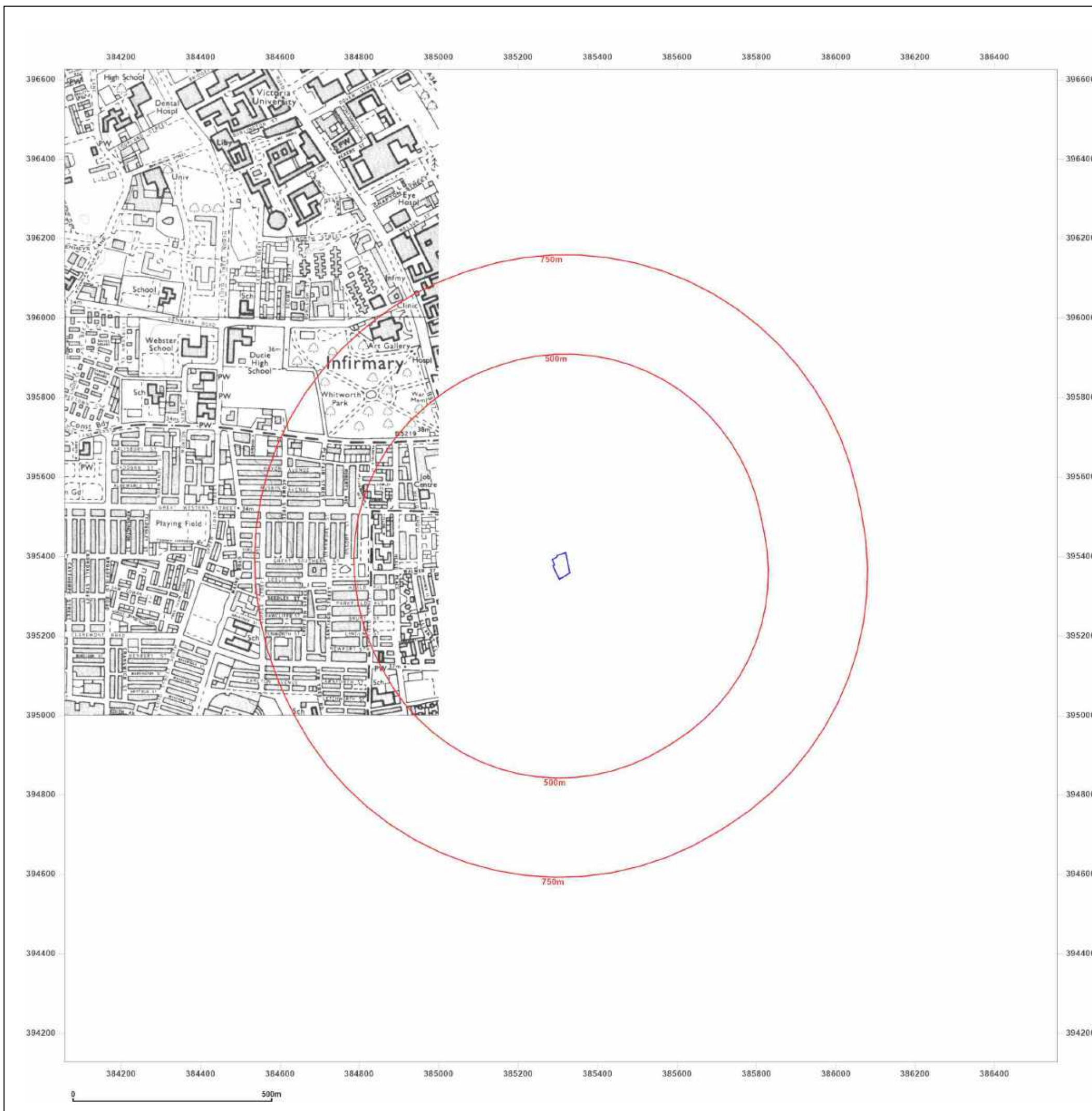


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M14 5RB

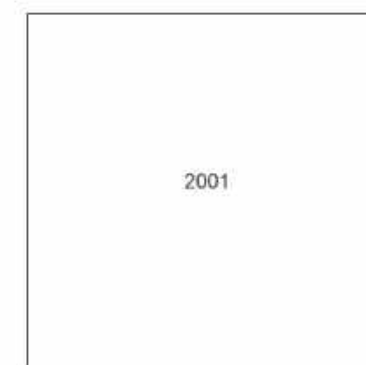
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Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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PARK ROAD, MANCHESTER,
M14 5RB

Client Ref: 10961G
Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010



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Site Details:

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M14 5RB

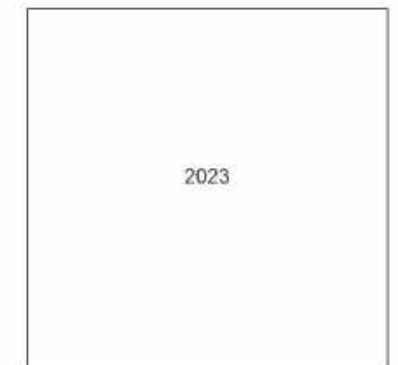
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Report Ref: HMD-424-9377981
Grid Ref: 385307, 395376

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

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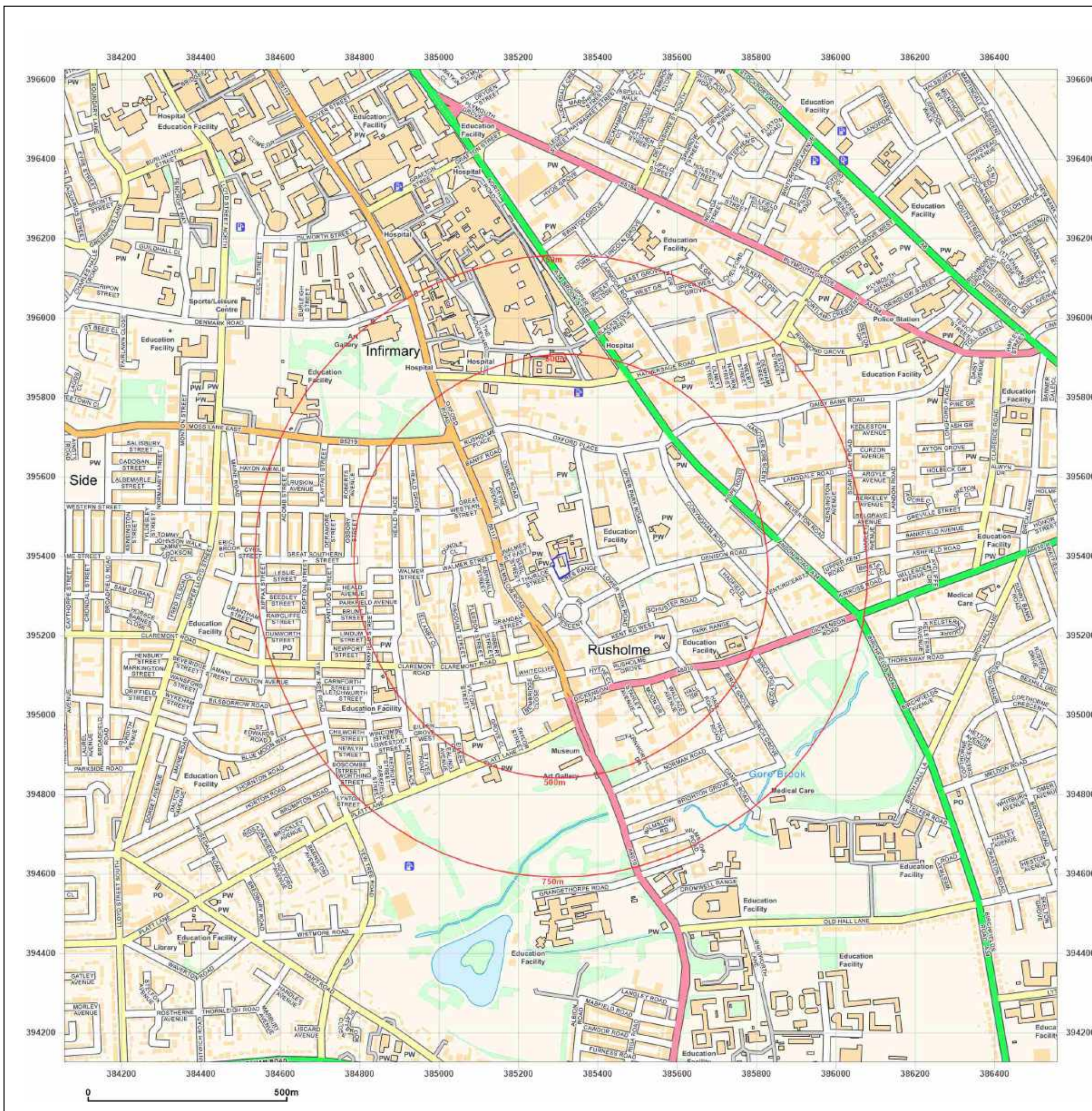


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APPENDIX 04

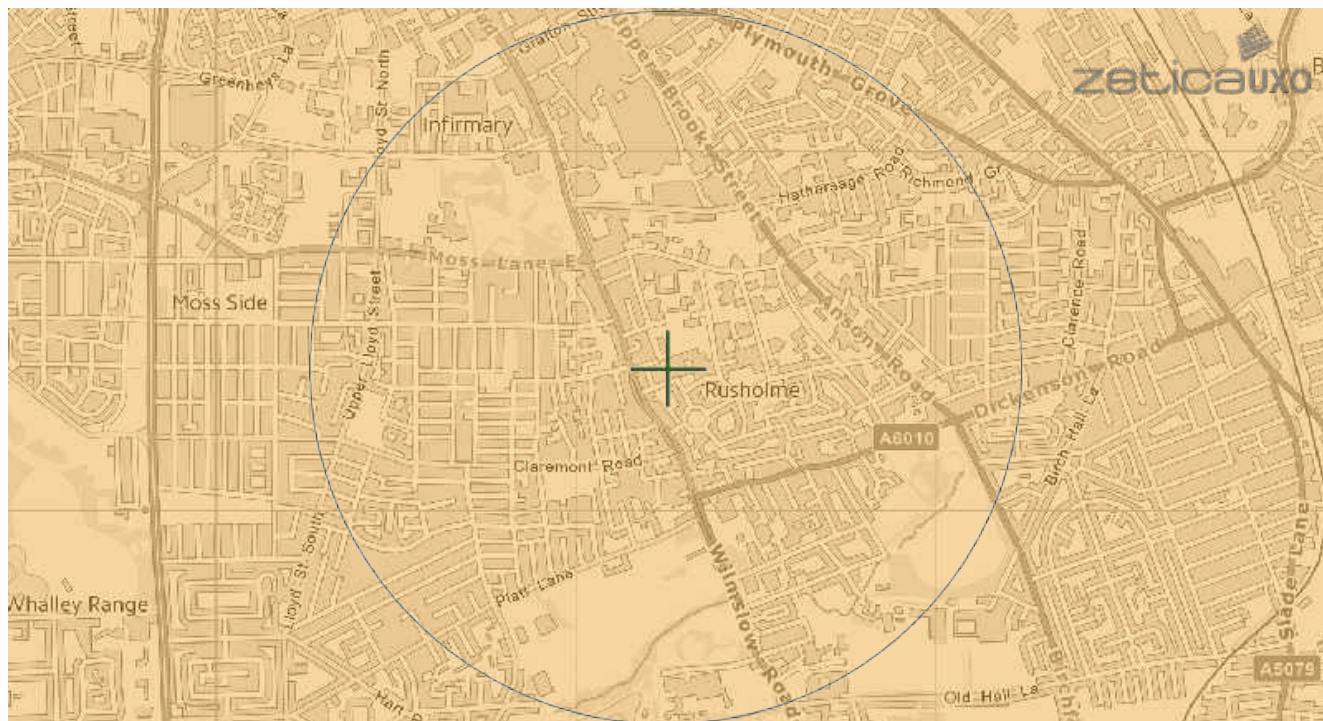
ZeticaUXO Unexploded Bomb Risk Map

UNEXPLODED BOMB RISK MAP



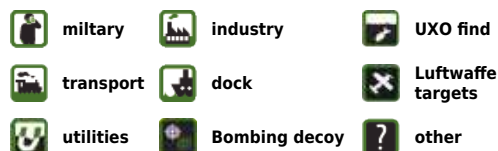
SITE LOCATION

Location: M14 5SG,
Map Centre: 385262,395400



LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.



How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

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It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

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.