

CULVERT REPORT BODDINGTONS

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January 2022*

Report Title: Culvert Report

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-	12.01.2022	EAJ	First Issue
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Limitations



All findings, recommendations and conclusions contained in this report are based on information provided to us during investigations. Shepherd Gilmour Infrastructure Ltd. has created the report based on the assumption that all the information is accurate and accepts no liability should additional information exist or become available.

Unless otherwise requested by the client, Shepherd Gilmour Infrastructure Ltd. is not obliged to and disclaims any obligation to update the report for events taking place after the date noted on the report.

Shepherd Gilmour Infrastructure Ltd. makes no representation whatsoever concerning the legal significance of its findings or the legal matters referred to in the report. The information presented and conclusions drawn are based on statistical data and are for guidance purposes only. The study provides no guarantee against the flooding of the study site or elsewhere, nor of the absolute accuracy of water levels, flow rates, and associated probabilities.

This report has been prepared for the sole use of the client. No other third parties may rely upon or reproduce the contents of this report without the written permission of Shepherd Gilmour Infrastructure Ltd.

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I. INTRODUCTION

Shepherd Gilmour Infrastructure (SGi) have been commissioned to respond to a Planning Objection/Request for further information received from Manchester City Councils LLFA. A copy of the Objection received is included in Appendix A.

The LLFA have kindly supplied their records which suggest that there is a historic underground culvert which runs beneath the proposed development site. In Fig I below we have overlaid the LLFA records onto our proposed development plans.

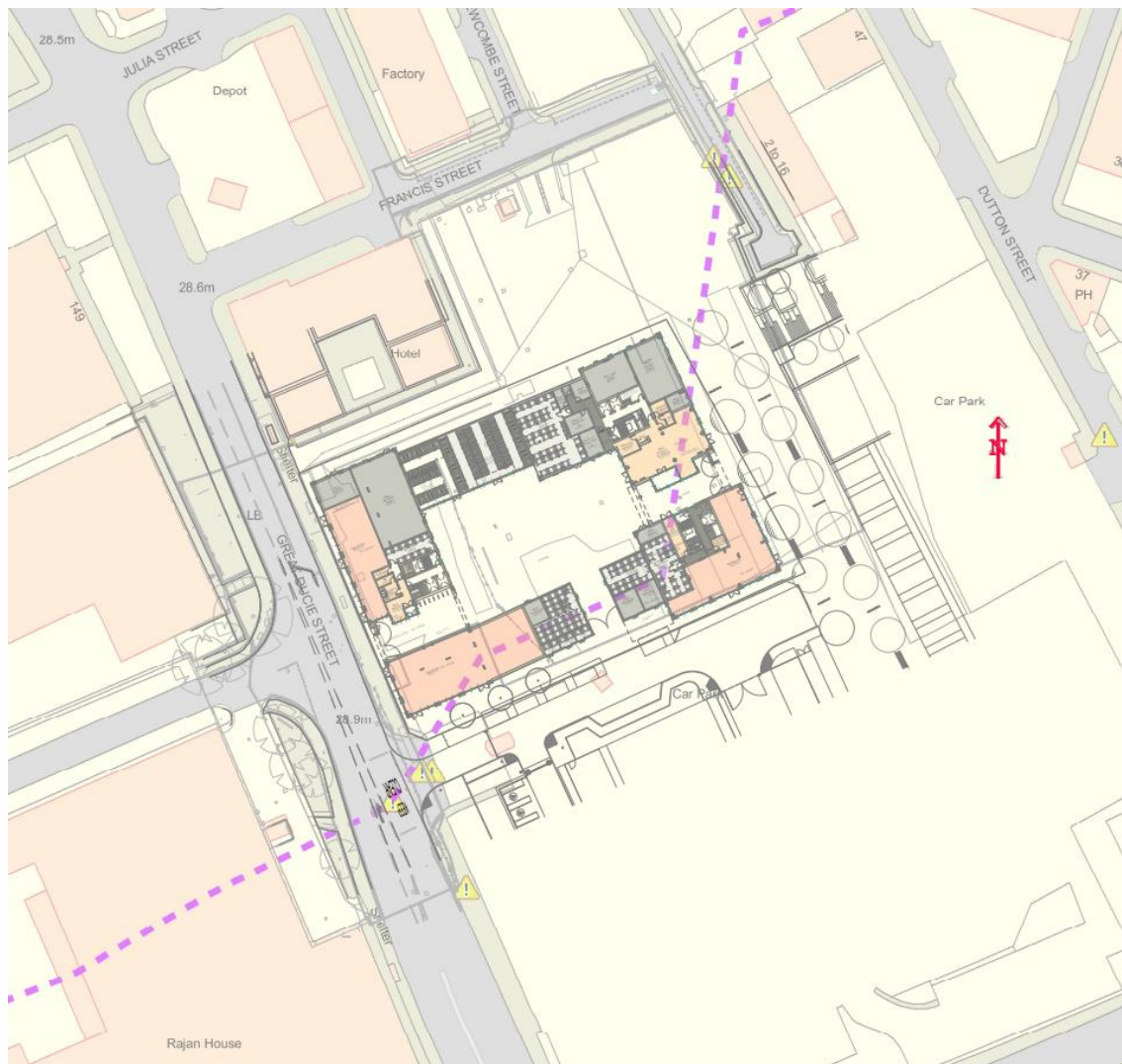


Fig I Proposed Development Site

2. SITE REVIEW OF RIVER IRWELL

SGi have carried out a detailed onsite survey of the eastern bank of the River Irwell. The investigation centred around the predicted location of the outfall from the unnamed tributary of the River Irwell.

A detailed photographic survey was taken initially from the Eastern bank and then across onto the Eastern bank from the Western bank. All photographs and a record of the location of the Photographs are provided in Appendix B.

Despite a detailed review of the bank, only one headwall could be identified which corresponds in location to that indicated on United Utilities records in Fig 2



3. ENVIRONMENT AGENCY RECORDS

SGi have consulted the Environment Agency and requested all available information in relation to flood risk and water features on this site. It is accepted that all E.A. records do not have ordinary watercourses recorded but there is usually a record of their existence on their plans.

The E.A. records (Fig 3 below) provided, do not indicate any watercourse beneath the site and similarly, the extract from the E.A. historic development advice maps. (Fig 4 below) gives no indication of an underground water feature. The layer taken indicates surface water run off risk. In areas of watercourse and underground culverts these are usually highlighted on the plan.

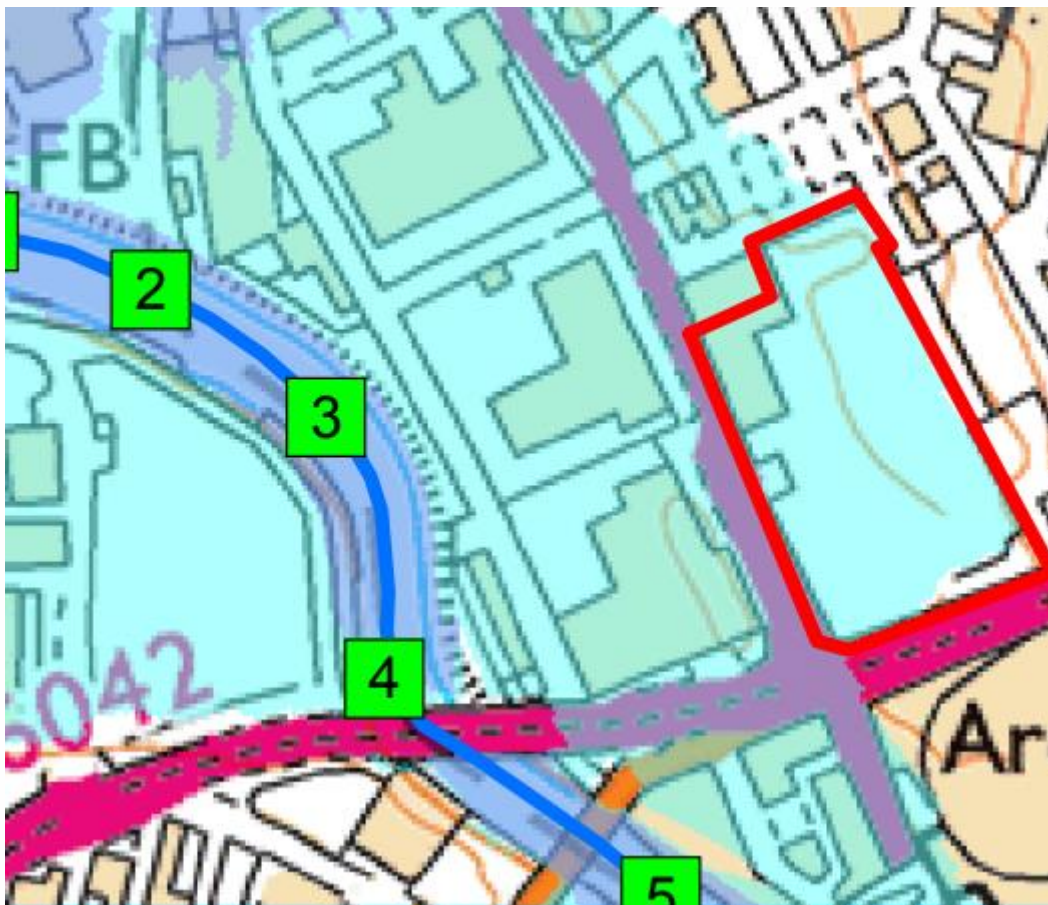


Fig 3 Environment Flood Data



Fig 4 Environment Agency Map for Surface Water Flooding Risk

4. HISTORIC DATA

A Phase I Desk Study has been prepared by e3p to support the Planning Application. As part of the desk study a review of the historic maps of the site was undertaken. For completeness the Historic maps provided are included in Appendix C.

These maps show that there have been buildings covering the majority of the site since prior to the 1848 map and that the configuration of buildings has changed on several occasions. There are no culverts marked on any of these maps and there are no signs that building positions have been determined by any need to avoid a culvert (for instance in the form of gaps between buildings) A further plan from 1771 (Included in Appendix C) has also been reviewed which again does not indicate and signs of an underground culvert of open watercourse.

A review of historic maps prior to developments can usually give a clear indication of historic watercourses. There is no evidence to be found on these maps.

5. ONSITE INVESTIGATION

The client instructed a GPR survey of the site to identify any underground culverts, pipes and services. The results of the underground GPR survey are provided in Appendix E.

Whilst some near surface pipes have been located throughout the site, they appear to be associated with the historic Boddingtons Brewery development. The GPR survey did not locate any linear culvert running from East to West.

It should be noted that GPR surveys especially in sites with a concrete covering do not have the ability to extend more than 2m deep.

The culvert if it connects to the Irwell could be as deep as 5m.

6. INTRUSIVE INVESTIGATION

A Phase 2 Intrusive Geo Environmental Investigation has been undertaken onsite which involved a combination of 18 Trial holes, Window sample and Rotary boreholes. Again, it is recognised that such investigation could not be relied upon to identify such culverts, however no evidence of any underground structure was found.

7. REVIEW CONCLUSION/RECOMMENDATION

Based on the work undertaken in this report SGi cannot find any evidence of an underground culvert crossing the site from East to West.

- On this basis we would suggest a condition to require the below investigations would comprehensively address the LLFA's concerns:
- It is proposed that site remediation will be carried out to remove any buried obstructions that may be present. This will involve excavating the whole site to a depth of 2m. Further GPR surveys or slit trenches could be carried out from this reduced level.
- Where this reduced level dig exposes natural soils then inspections can be carried out to determine if there are any lines of Made Ground present which could be suggestive of backfill to a culvert.
- Depending upon the amount of buried obstructions encountered during this reduced level dig, probing works may be required in the positions of proposed future piles to support the new building. Such probes would identify if there was a culvert crossing the site in the orientation indicated.

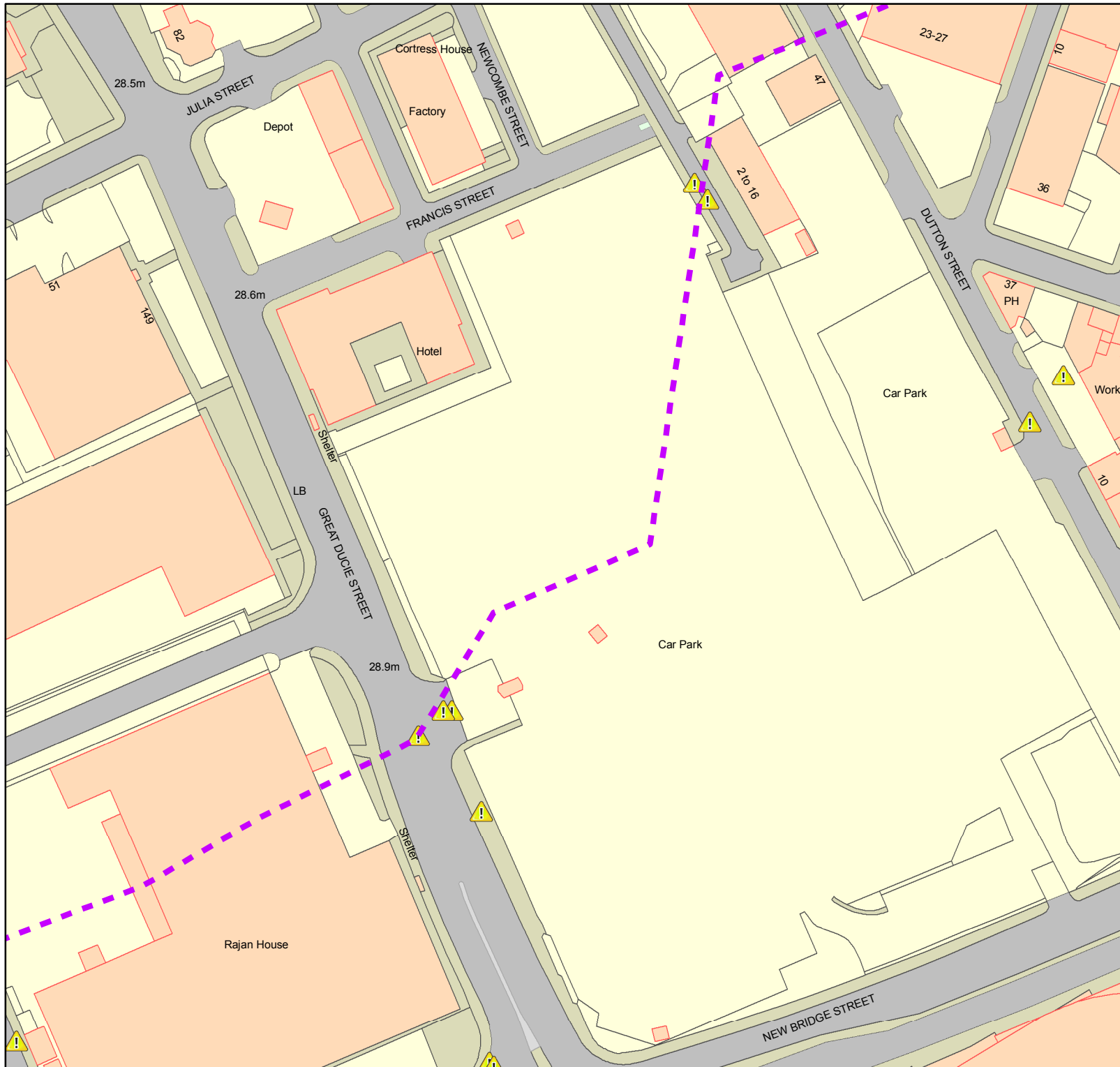
- If a culvert is found to exist, then a diversion route can be agreed with the LLFA prior to commencement of the main construction works. We consider that a planning condition could be reasonable included on a decision notice to require details of a diversion should be a culvert be found.

An indicative diversion plan is detailed below. The new route is shown in dashed blue lines and would mean that the diverted culvert can be accessed in the future for inspection and maintenance if required.



Fig 5 Indicative Diversion Plan

APPENDIX A



MANCHESTER
CITY COUNCIL

LLFA DATA SCREEN

Address/Site Ref:

132416/FO/2021

Our Ref:

MCC005/01/2022

Author: Manchester City Council LLFA

Date: 06/01/2022

Scale: 1:1,261

The position of features shown on this plan is approximate only and is given in accordance with the best information currently available. Manchester City Council will not accept liability for any loss or damage caused by the actual position being different from those shown.

0 5 10 20
Meters

N



Contains OS data © Crown Copyright
and database right 2021.



**MANCHESTER
CITY COUNCIL**

Lead Local Flood Authority

Highways Service
Growth and Neighbourhoods Directorate
Manchester City Council
PO Box 532
Town Hall
Manchester
M60 2LA

Email: floodriskmanagement@manchester.gov.uk

DATE:06/01/2022

Dear Sir or Madam,

RE: Our Ref: MCC005/01/2022

We acknowledge with thanks your payment for our LLFA data screen service.

Please find enclosed plan showing the results of the data screen. The position of features shown on this plan is approximate only and is given in accordance with the best information currently available.

The enclosed plan cannot be used to substitute a competent site investigation.

The enclosed plan is being provided to you subject to Manchester City Council's terms and conditions which are shown attached.

I trust the above meets your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter, please do not hesitate to contact us.

Yours Faithfully,

A handwritten signature in black ink, appearing to read 'N.A. Bayliss-Rowe'.

Neil Bayliss-Rowe, Highways Development Control & Flood Risk Manager, Lead Local Flood Authority

TERMS AND CONDITIONS – LLFA DATA SCREEN

These provisions apply to LLFA data supplied by Manchester City Council (“MCC”).

TERMS AND CONDITIONS:

- This data Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- MCC has taken all reasonable care to compile this data Map. This data Map and any information supplied with it is provided for general guidance only and MCC makes no representation, undertaking or warranty of any kind as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position of any culverted assets shown on the data Map are approximate only. MCC strongly recommends that a comprehensive site investigation is undertaken in addition to reviewing this data Map to determine and ensure the precise location of any assets. The exact location, positions and depths should be obtained by an appropriate survey which may include but shall not be limited to GPR and CCTV.
- The data screened may be modified over time without notice and therefore this data Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the data Map have been made subsequent to issue and prior to any works being carried out.
- This data Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) or for the purpose of determining the suitability of a point of connection to discharge.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising from damages of any kind caused to assets by reason of the actual position and/or existence of assets being different from those shown on the data Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent MCC from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

DATA SCREEN SYMBOLOGY

Bridge

-  Good
-  Fair
-  Poor
-  Very Poor
-  Unknown

Trash Screen

-  Good
-  Fair
-  Poor
-  Very Poor
-  Unknown

Culvert Orifice

-  Very Good
-  Good
-  Fair
-  Poor
-  Very Poor
-  Unknown

Culvert Conduit

-  CCTV surveyed
-  Not CCTV surveyed
-  Ordinary Watercourse Conduit
-  MCC SuDS
-  MCC Flood Incident Points
-  MCC Section 19 Report
-  MCC Flood Incident Polygons
-  MCC Local Authority Boundary



Supplementary Information where available:

Critical Drainage Area – The site is within the Conurbation Core (CDA)

Flood Incidents –

MCC Flood Incident Polygon:

-MCC records highlight that there are no flood incident polygons located within close proximity to the site.

MCC Flood Incident Points (within close proximity to the site):

-All nearby incident points located on Great Ducie Street are from blocked highway gullies. The dates of these incidents range from August 2019 to June 2021.

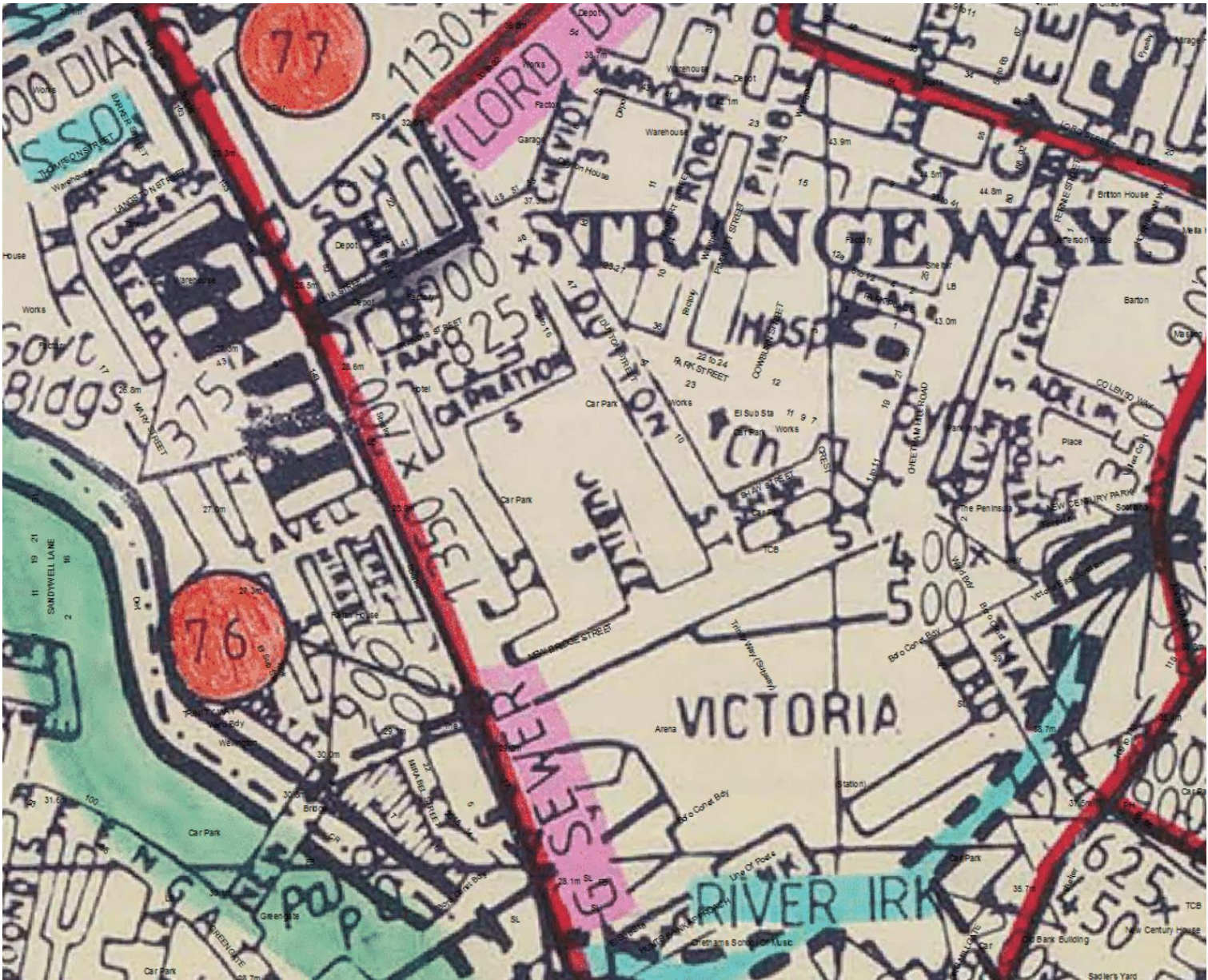
-The two incidents located on Charter Street are from blocked gullies. The dates of these incidents range from February 2021 to March 2021.

-The incident on Dutton Street is from a blocked gully. Dated June 2021.

Culvert Conduits – The River Irwell Tributary is located running through the site, flowing from East to West with an outfall into the River Irwell. This culvert is highlighted as 'unverified' on MCC records therefore no further information is currently available.

Survey and Design Archive – Extract from the 1984 survey of major drainage is included.

Historic 1984 Mapping:



APPENDIX B



Photograph 1



Photograph 2



Photograph 3



Photograph 4



Photograph 5



Photograph 6



Photograph 7



Photograph 8



Photograph 9



Photograph 10



Photograph 11



Photograph 12



Photograph 13



Photograph 14

APPENDIX C

Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



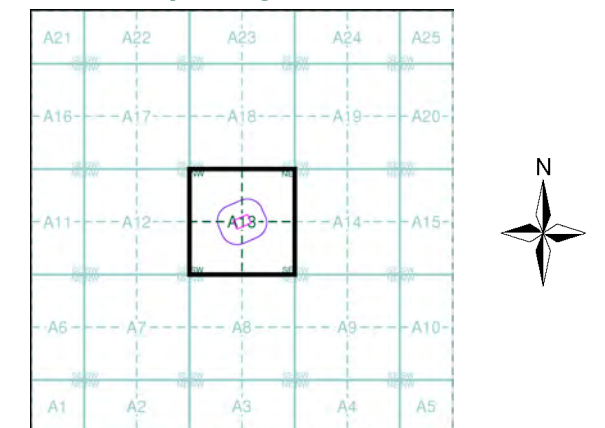
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1892	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1933	4
Ordnance Survey Plan	1:1,250	1949 - 1951	5
Ordnance Survey Plan	1:2,500	1951 - 1952	6
Ordnance Survey Plan	1:1,250	1952 - 1961	7
Ordnance Survey Plan	1:2,500	1953 - 1958	8
Ordnance Survey Plan	1:1,250	1958 - 1984	9
Ordnance Survey Plan	1:2,500	1959 - 1965	10
Ordnance Survey Plan	1:2,500	1966 - 1971	11
Ordnance Survey Plan	1:1,250	1968 - 1990	12
Supply of Unpublished Survey Information	1:1,250	1977	13
Additional SIMs	1:1,250	1978 - 1989	14
Additional SIMs	1:1,250	1981 - 1987	15
Ordnance Survey Plan	1:1,250	1986 - 1989	16
Additional SIMs	1:1,250	1986 - 1988	17
Additional SIMs	1:1,250	1986 - 1990	18
Additional SIMs	1:1,250	1991	19
Large-Scale National Grid Data	1:1,250	1992	20
Large-Scale National Grid Data	1:1,250	1993 - 1995	21
Large-Scale National Grid Data	1:1,250	1994 - 1995	22
Large-Scale National Grid Data	1:1,250	1995	23
Large-Scale National Grid Data	1:1,250	1996	24
Large-Scale National Grid Data	1:1,250	1996	25
Large-Scale National Grid Data	1:1,250	1996	26
Historical Aerial Photography	1:2,500	2000	27

Historical Map - Segment A13



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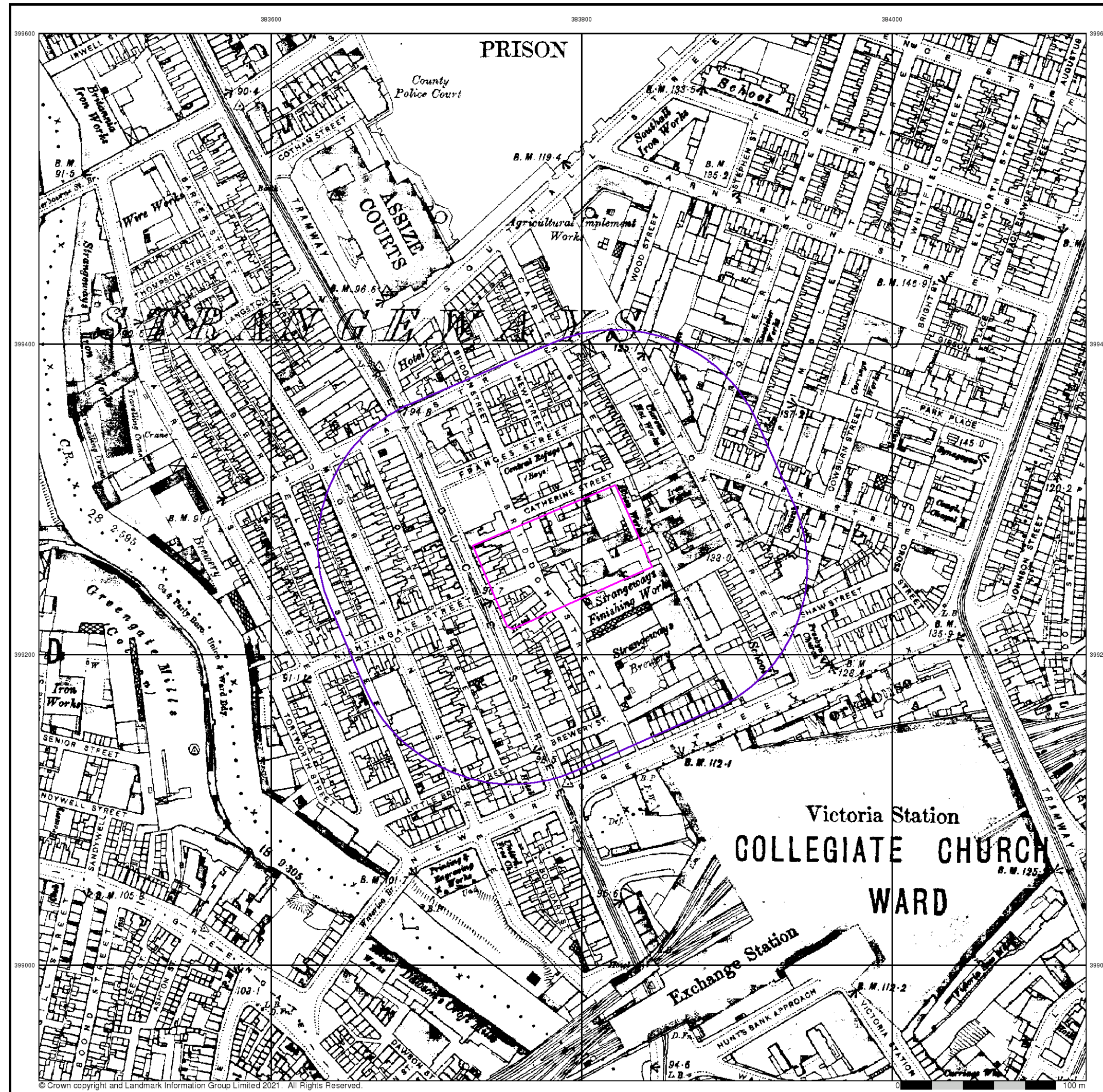
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Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Great Ducie Street, MANCHESTER



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



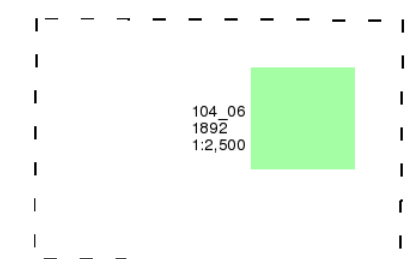
Lancashire And Furness

Published 1892

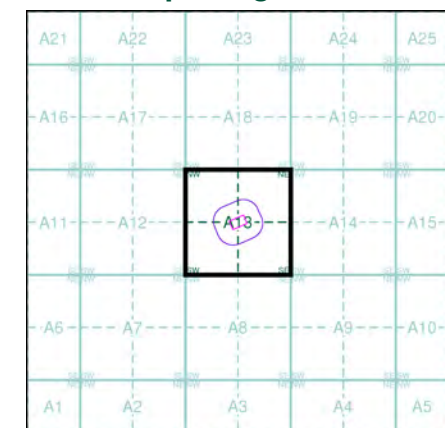
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
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Great Ducie Street, MANCHESTER



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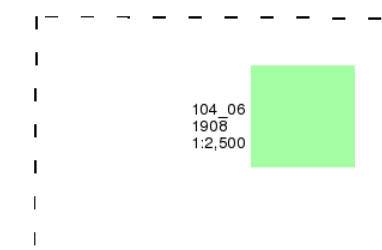
Lancashire And Furness

Published 1908

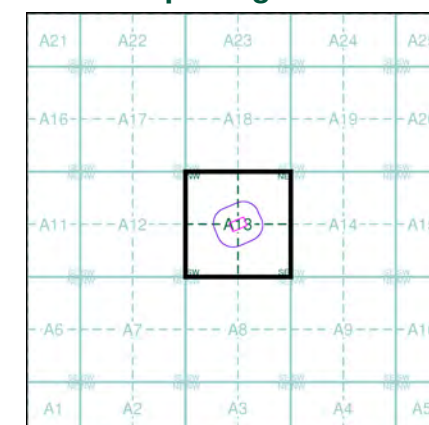
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

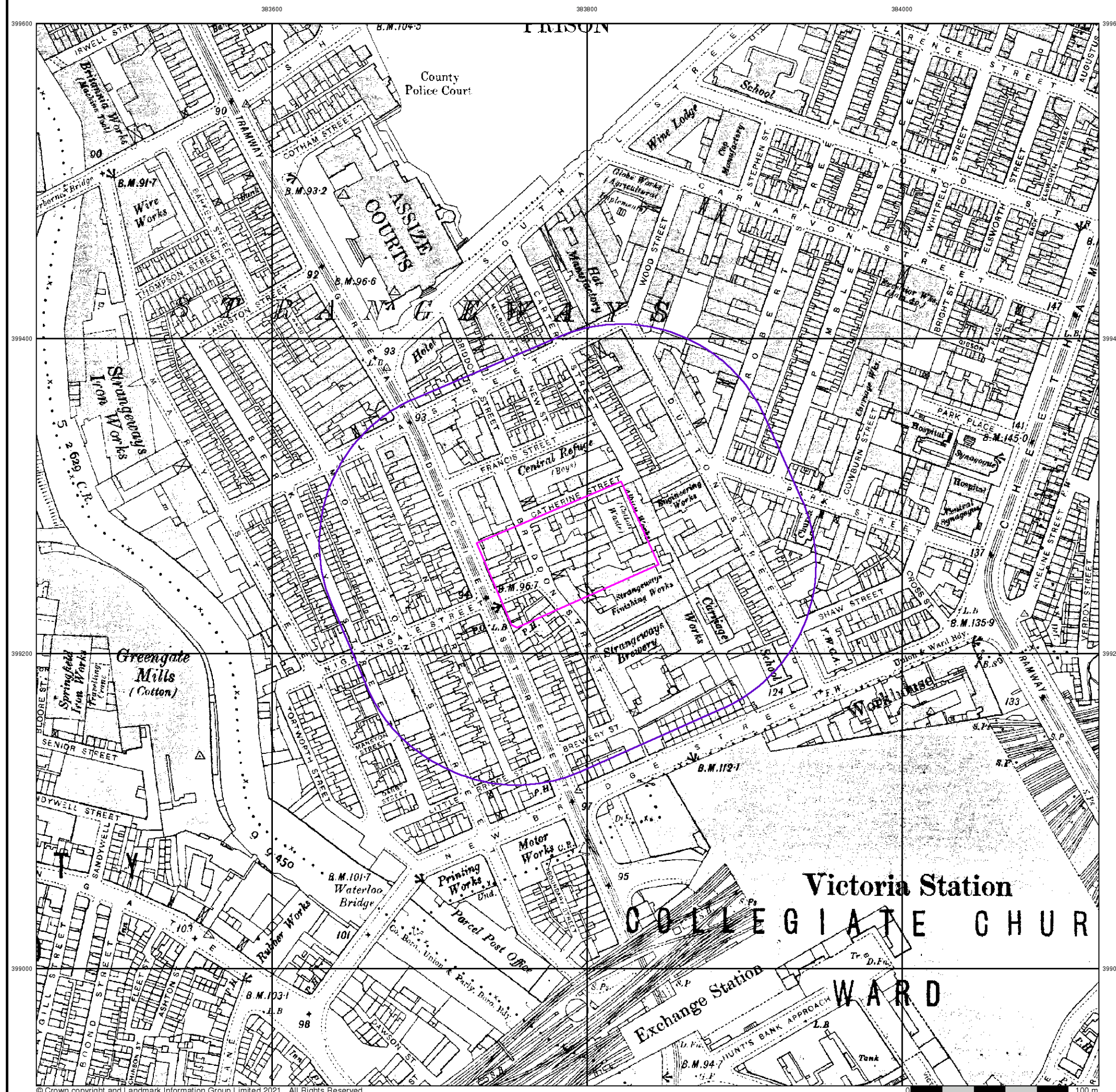
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Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

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Great Ducie Street, MANCHESTER



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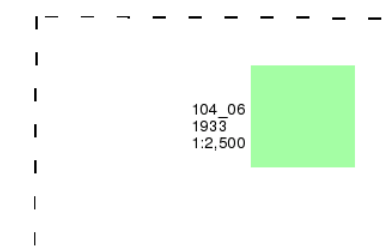
Lancashire And Furness

Published 1933

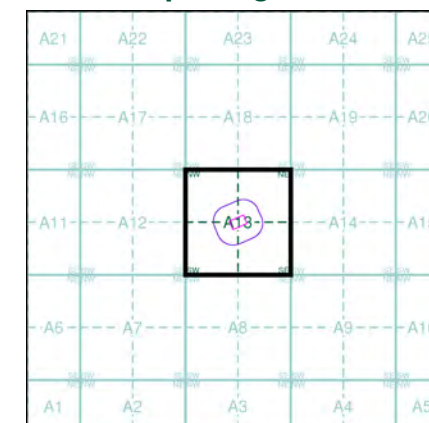
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

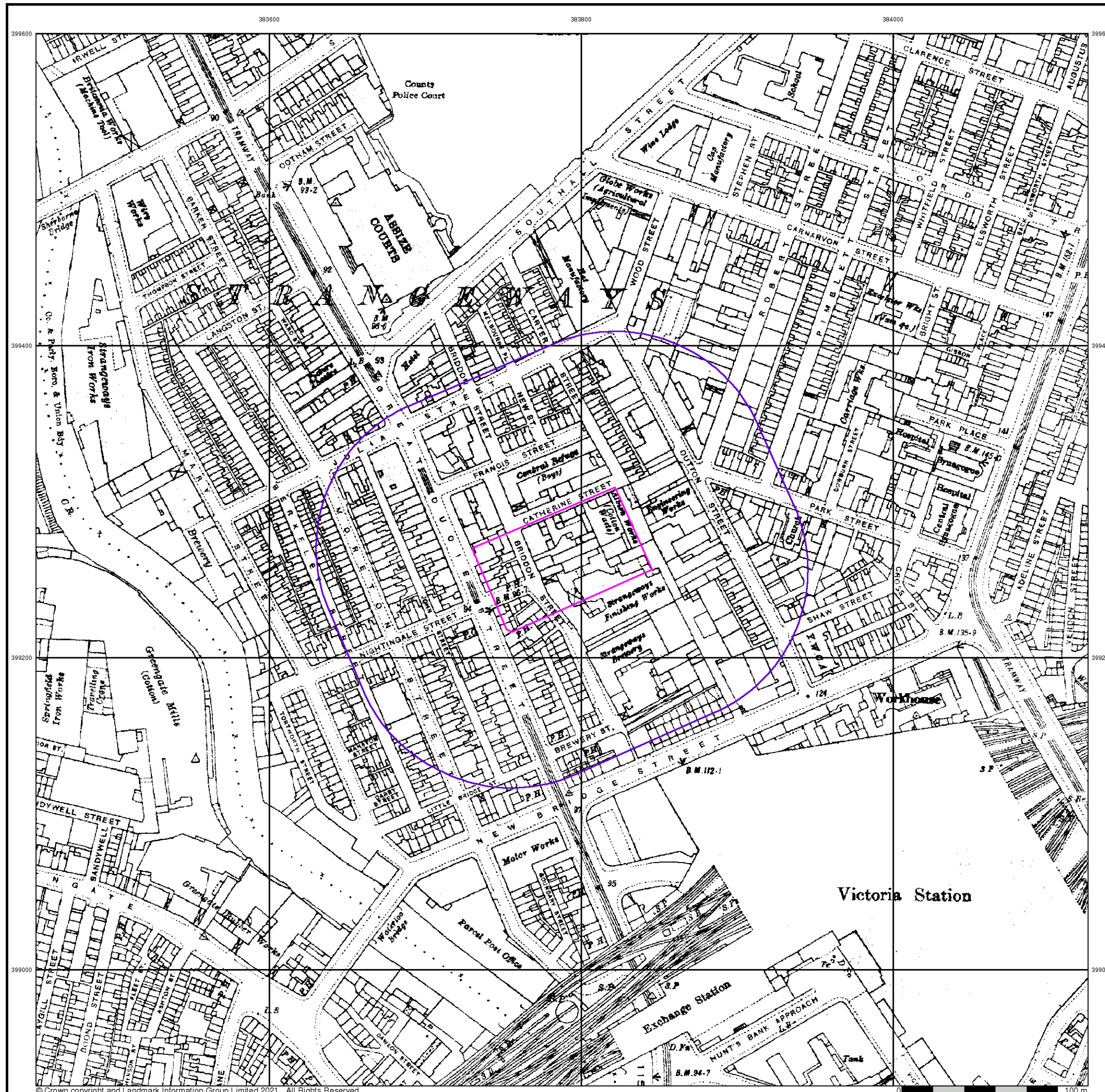
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Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Great Ducie Street, MANCHESTER



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





Ordnance Survey Plan

Published 1949 - 1951

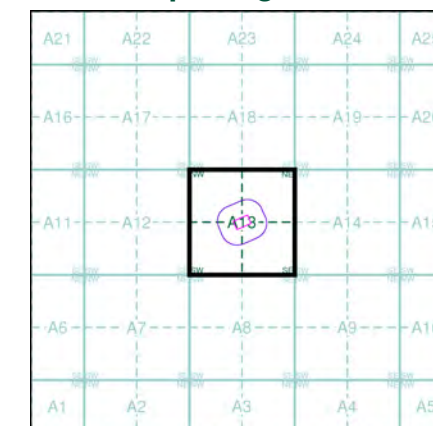
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Map Name(s) and Date(s)

SJ8399NW	SJ8399NE
1951	1951
1:1,250	1:1,250
SJ8399SW	SJ8399SE
1951	1951
1:1,250	1:1,250
SJ8398NW	SJ8398NE
1949	1949
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

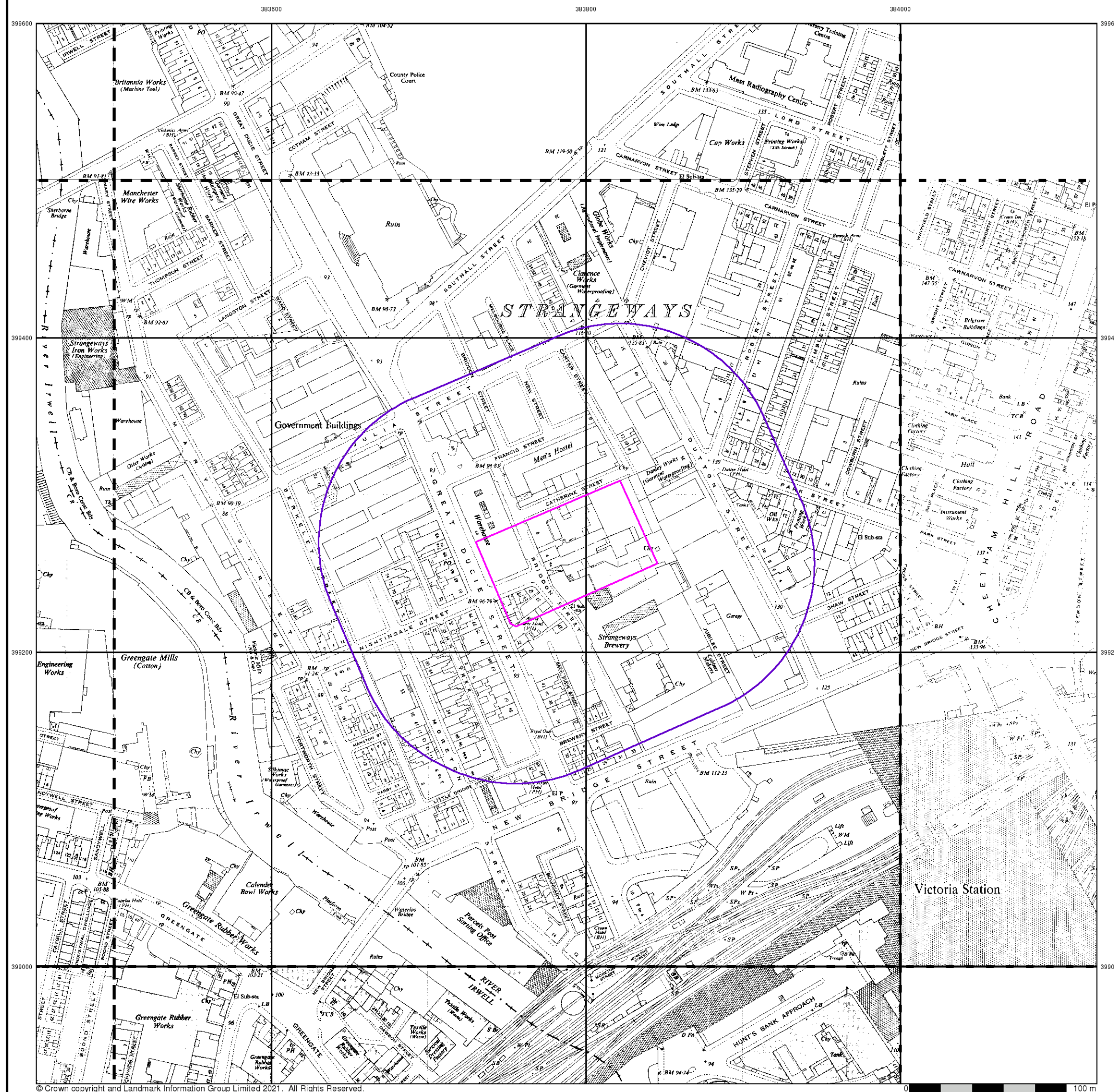
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Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Great Ducie Street, MANCHESTER



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





Ordnance Survey Plan

Published 1951 - 1952

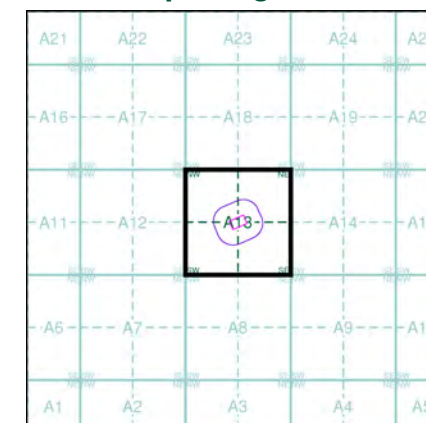
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Map Name(s) and Date(s)

SJ8399	SJ8499
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12,500	12,500
	
SJ8398	SJ8498
1951	1951
12,500	12,500

Historical Map - Segment A13



Order Details

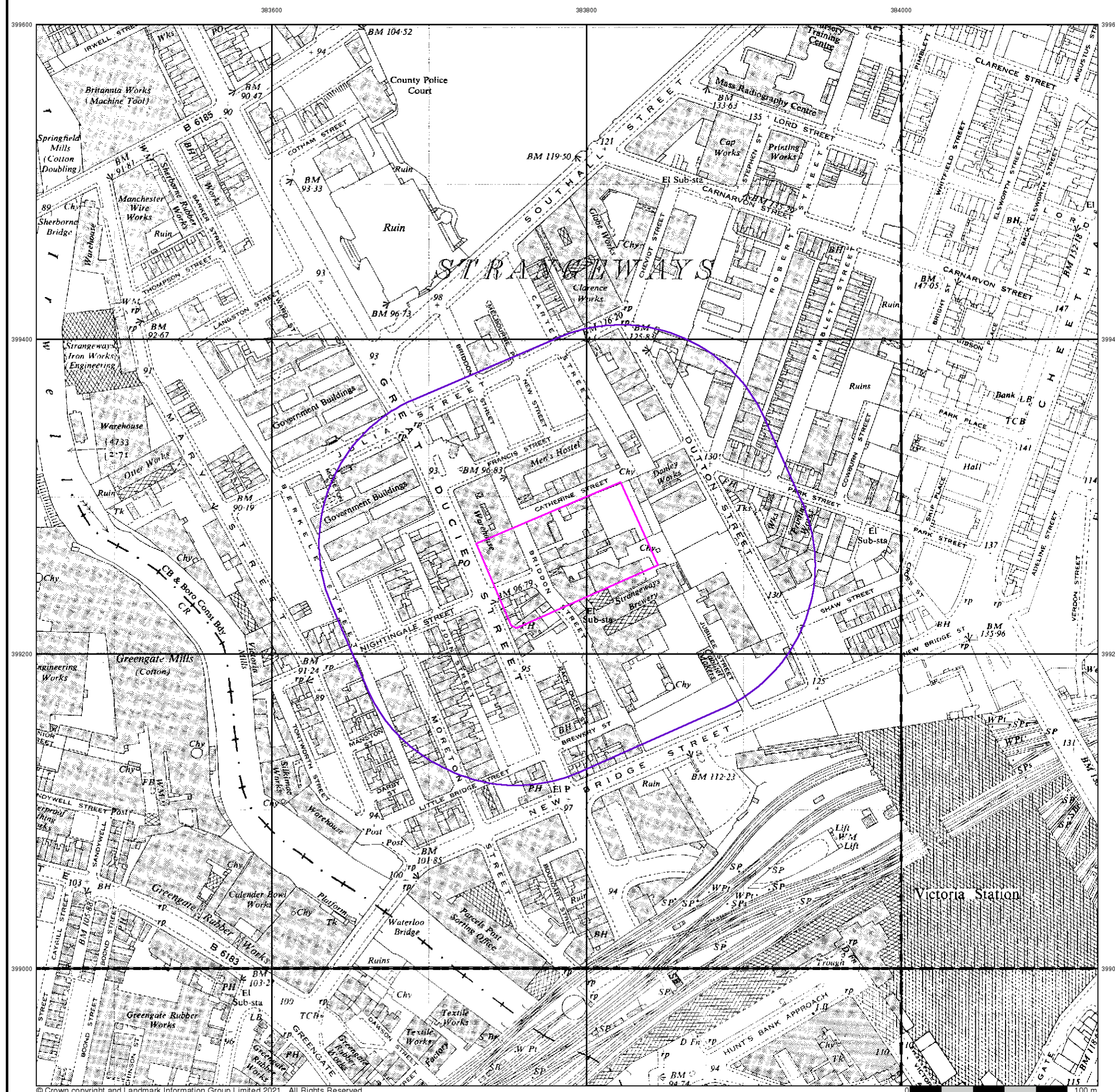
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Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Great Ducie Street, MANCHESTER

Landmark
INFORMATION GROUP

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





Ordnance Survey Plan

Published 1952 - 1961

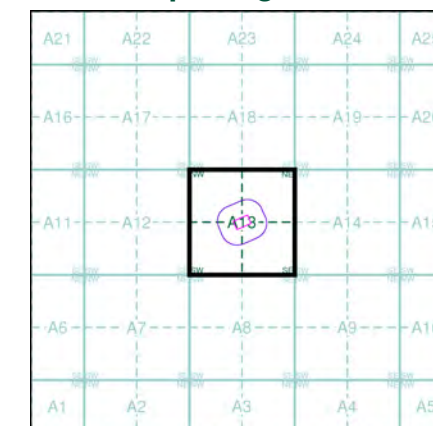
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SJ8399NW		SJ8499NW	
1961		1952	
1:1,250		1:1,250	
SJ8399SW	SJ8399SE	SJ8499SW	
1952	1952	1952	
1:1,250	1:1,250	1:1,250	
SJ8398NW	SJ8398NE		
1954	1955		
1:1,250	1:1,250		

Historical Map - Segment A13



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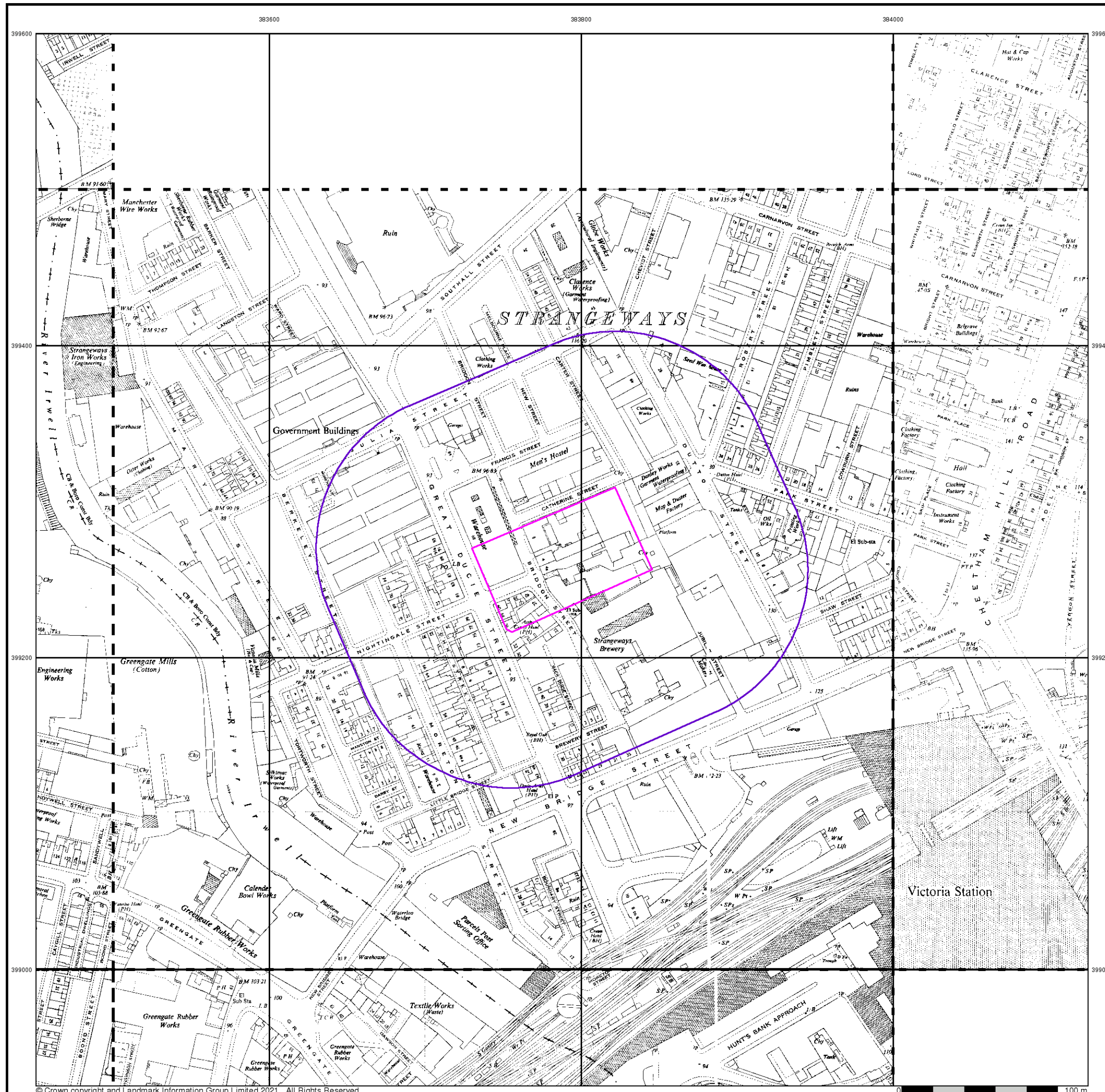
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Site Area (Ha): 0.59
Search Buffer (m): 100

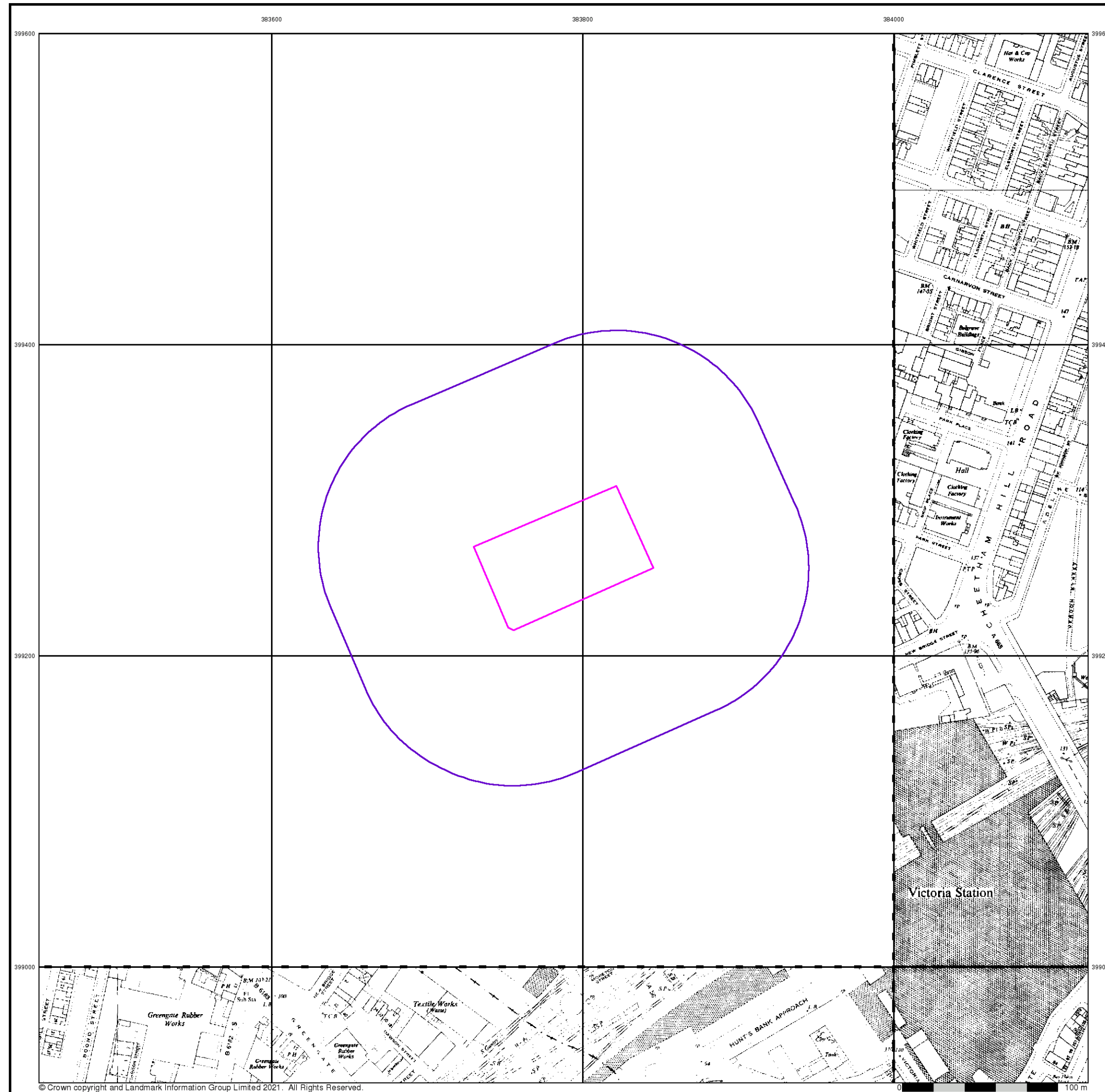
Site Details

Great Ducie Street, MANCHESTER



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





Ordnance Survey Plan

Published 1953 - 1958

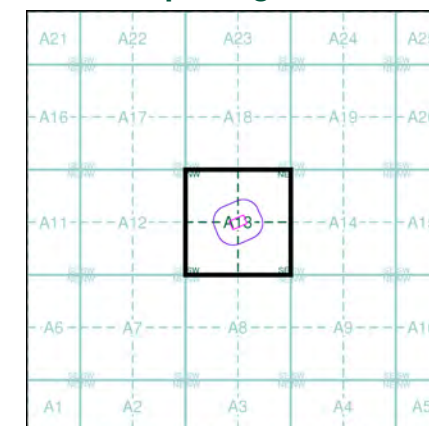
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

		SJ8499 1953 12,500
SJ8398 1958 12,500		SJ8498 1955 12,500

Historical Map - Segment A13



Order Details

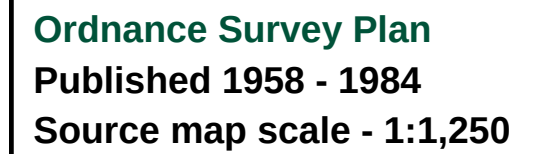
Order Number: 286062703_1_1
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Slice: A
Site Area (Ha): 0.59
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Site Details

Great Ducie Street, MANCHESTER



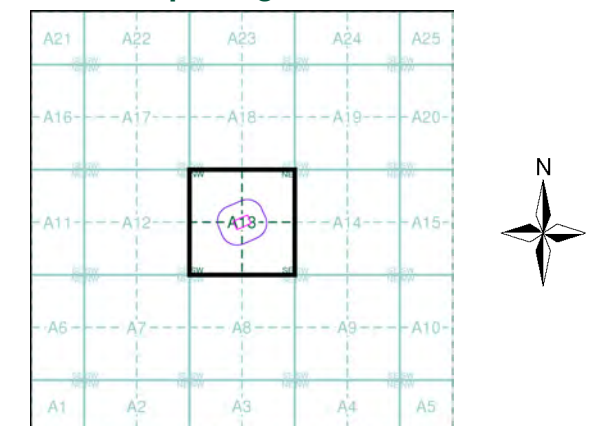
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Map Name(s) and Date(s)

Figure 1 displays eight small plots arranged in a 3x3 grid, showing the distribution of the number of children per family for different birth cohorts. The plots are arranged in three rows and three columns. The first row shows cohorts 1984, 1958, and 1963. The second row shows cohorts 1958, 1963, and 1963. The third row shows cohorts 1962, 1970, and 1963. Each plot has a y-axis labeled 'Number of children' and an x-axis labeled 'Number of children'. The plots show a distribution of children per family, with a peak at 1 child and a tail extending to 4 children. The distributions are generally similar, with a slight shift towards more children in the later cohorts.

Historical Map - Segment A13



Order Details

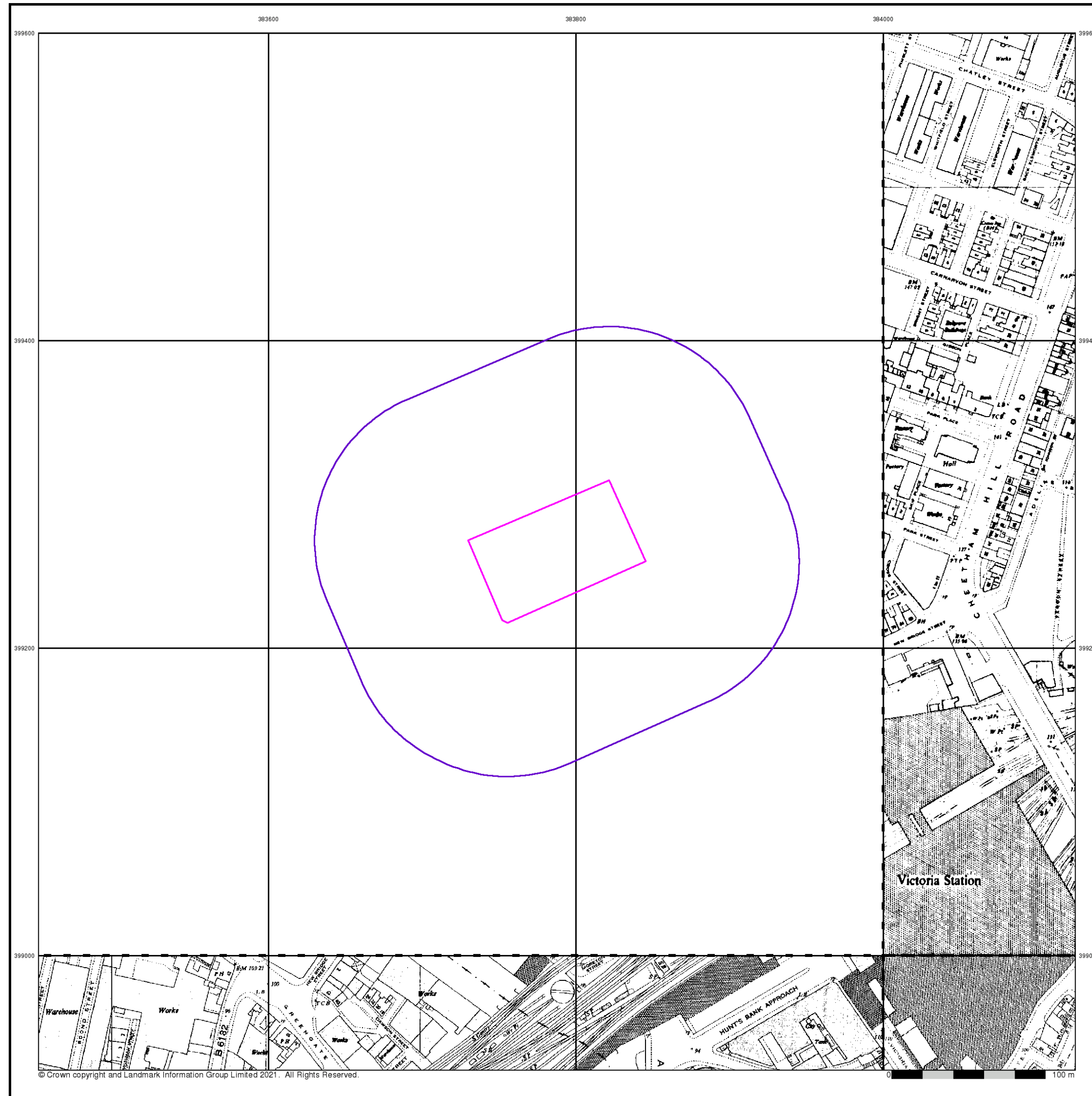
Order Number:	286062703_1_1
Customer Ref:	15175
National Grid Reference:	383790, 399260
Slice:	A
Site Area (Ha):	0.59
Search Buffer (m):	100

Site Details

Great Ducie Street, MANCHESTER

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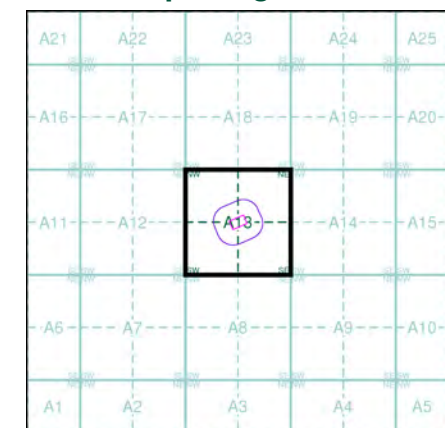
Ordnance Survey Plan
Published 1959 - 1965
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

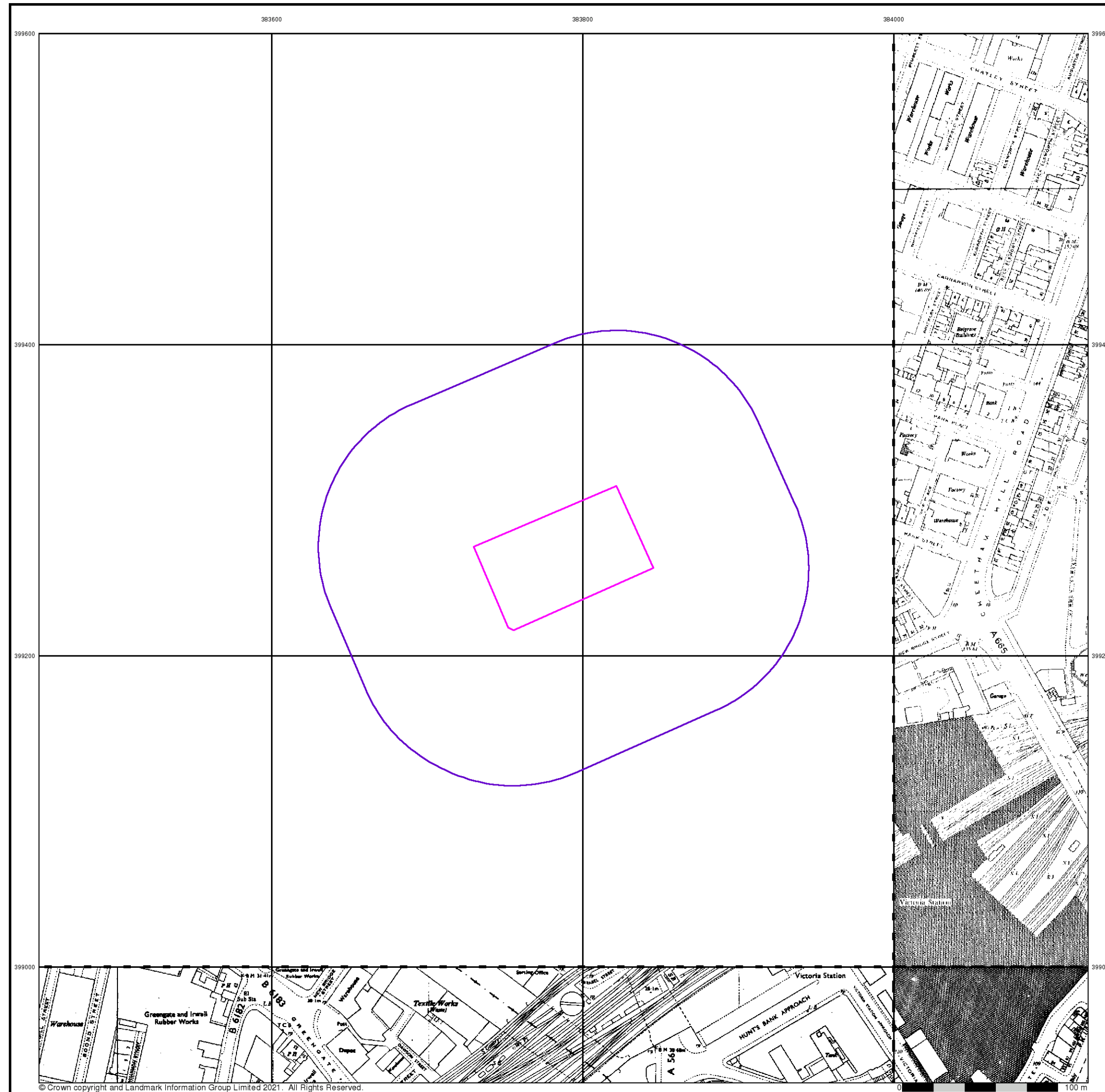
		SJ8499 1959 1:2,500	
SJ8398 1963 1:2,500		SJ8498 1965 1:2,500	

Historical Map - Segment A13



Order Details
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details
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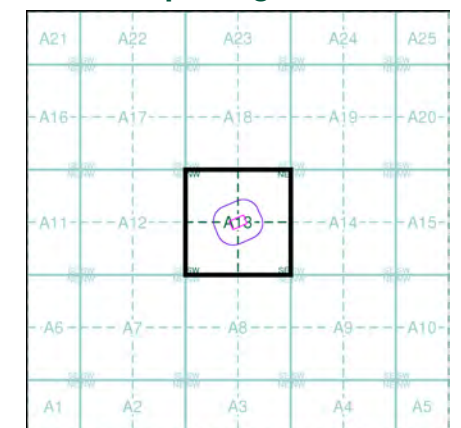
Ordnance Survey Plan
Published 1966 - 1971
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

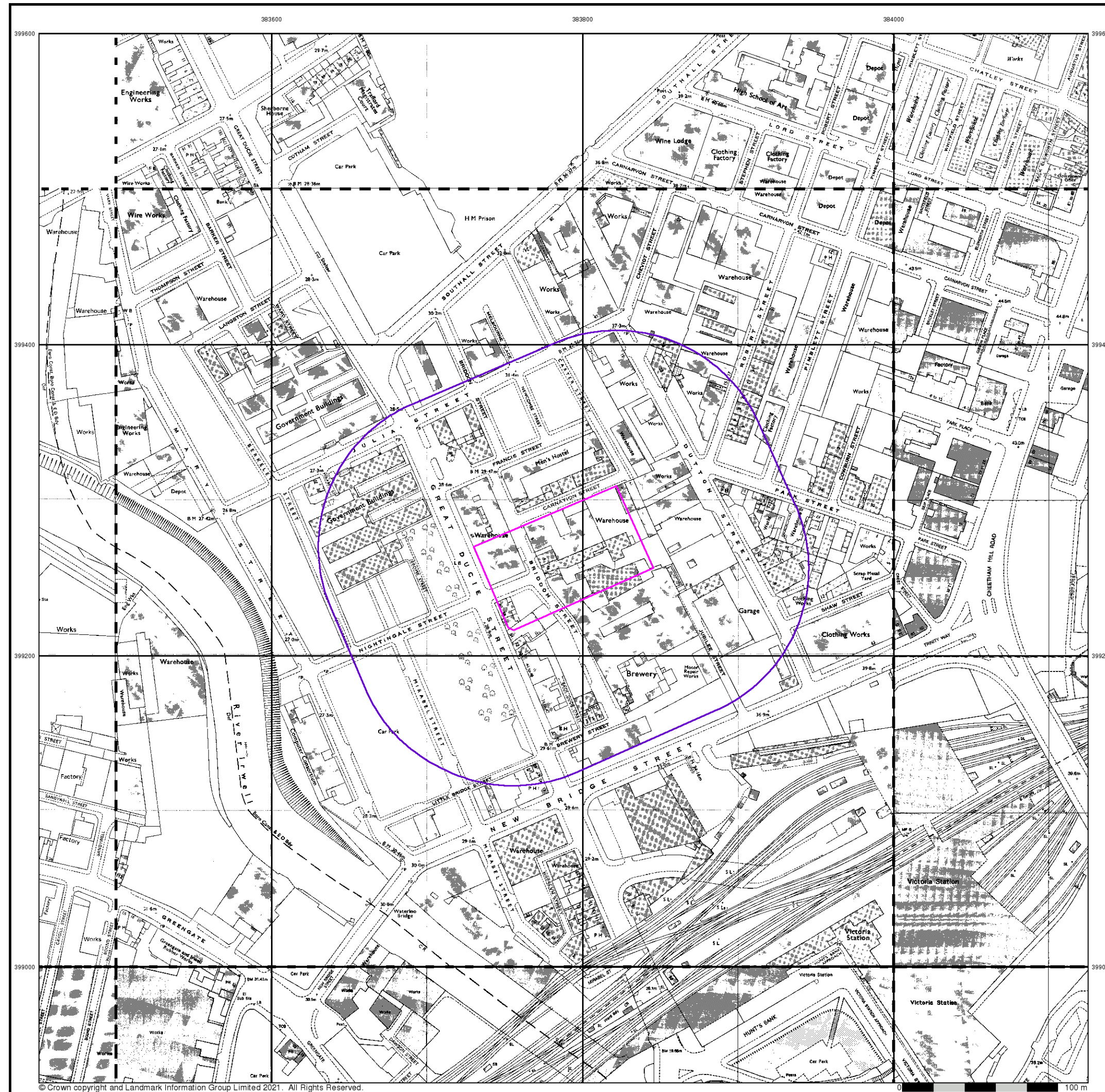
		SJ8499 1966 12,500
SJ8398 1971 12,500		SJ8498 1969 12,500

Historical Map - Segment A13



Order Details
Order Number: 286062703_1_1
Customer Ref: 15175
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Slice: A
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Ordnance Survey Plan

Published 1968 - 1990

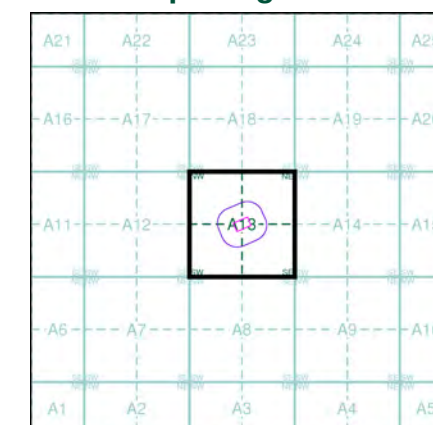
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SJ8399NE	SJ8499NW
1975	1968
1:1,250	1:1,250
SJ8399SW	SJ8399SE
1984	1975
1:1,250	1:1,250
SJ8398NW	SJ8398NE
1988	1989
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

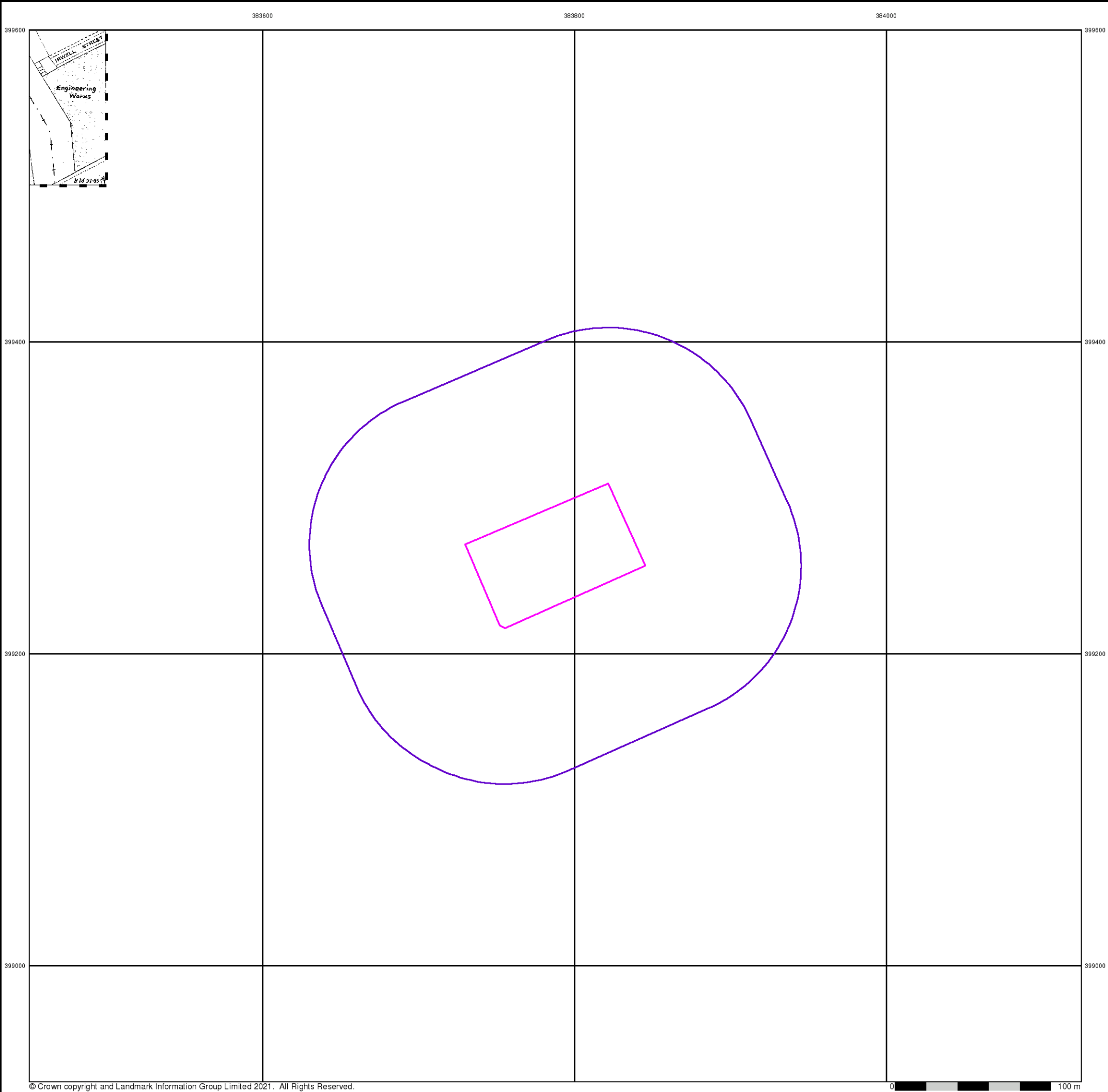
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

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Supply of Unpublished Survey Information

Published 1977

Source map scale - 1:1,250

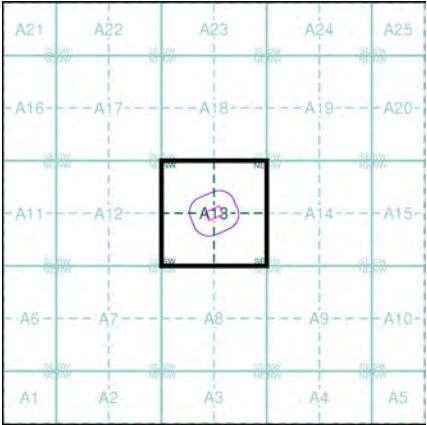
SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ8399NW
1977
1:1,250



Historical Map - Segment A13



Order Details

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Additional SIMs

Published 1978 - 1989

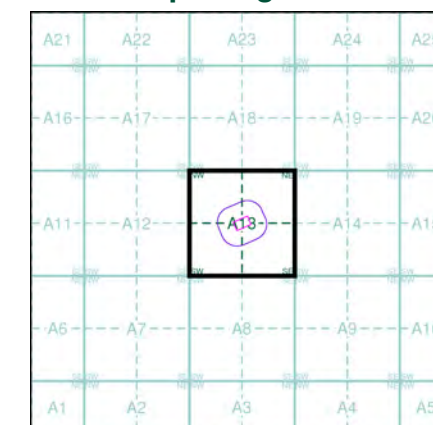
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ8399NW	SJ8399NE	SJ8499NW
1978	1989	1978
1:1,250	1:1,250	1:1,250
SJ8399SW	SJ8399SE	SJ8499SW
1978	1987	1984
1:1,250	1:1,250	1:1,250
SJ8398NW	SJ8398NE	SJ8498NW
1980	1979	1980
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

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Search Buffer (m): 100

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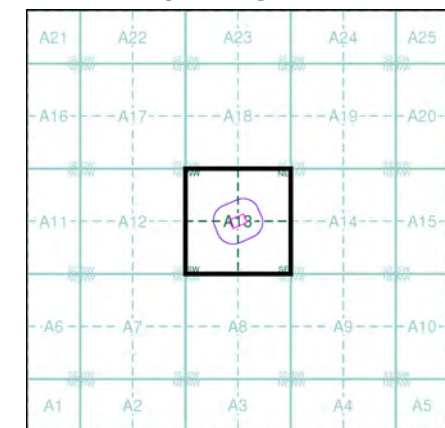
Additional SIMs
Published 1981 - 1987
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

5J8399NW	
1981	
1:1,250	
5J8399SW	5J8399SE
1987	1987
1:1,250	1:1,250
5J8398NW	5J8398NE
1987	1985
1:1,250	1:1,250

Historical Map - Segment A13



Order Details
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details
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Ordnance Survey Plan

Published 1986 - 1989

Source map scale - 1:1,250

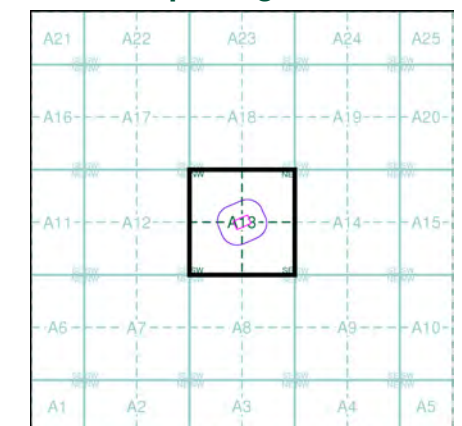
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SJ8499NW
1989
1:1,250

SJ8399SE
1986
1:1,250

Historical Map - Segment A13



Order Details

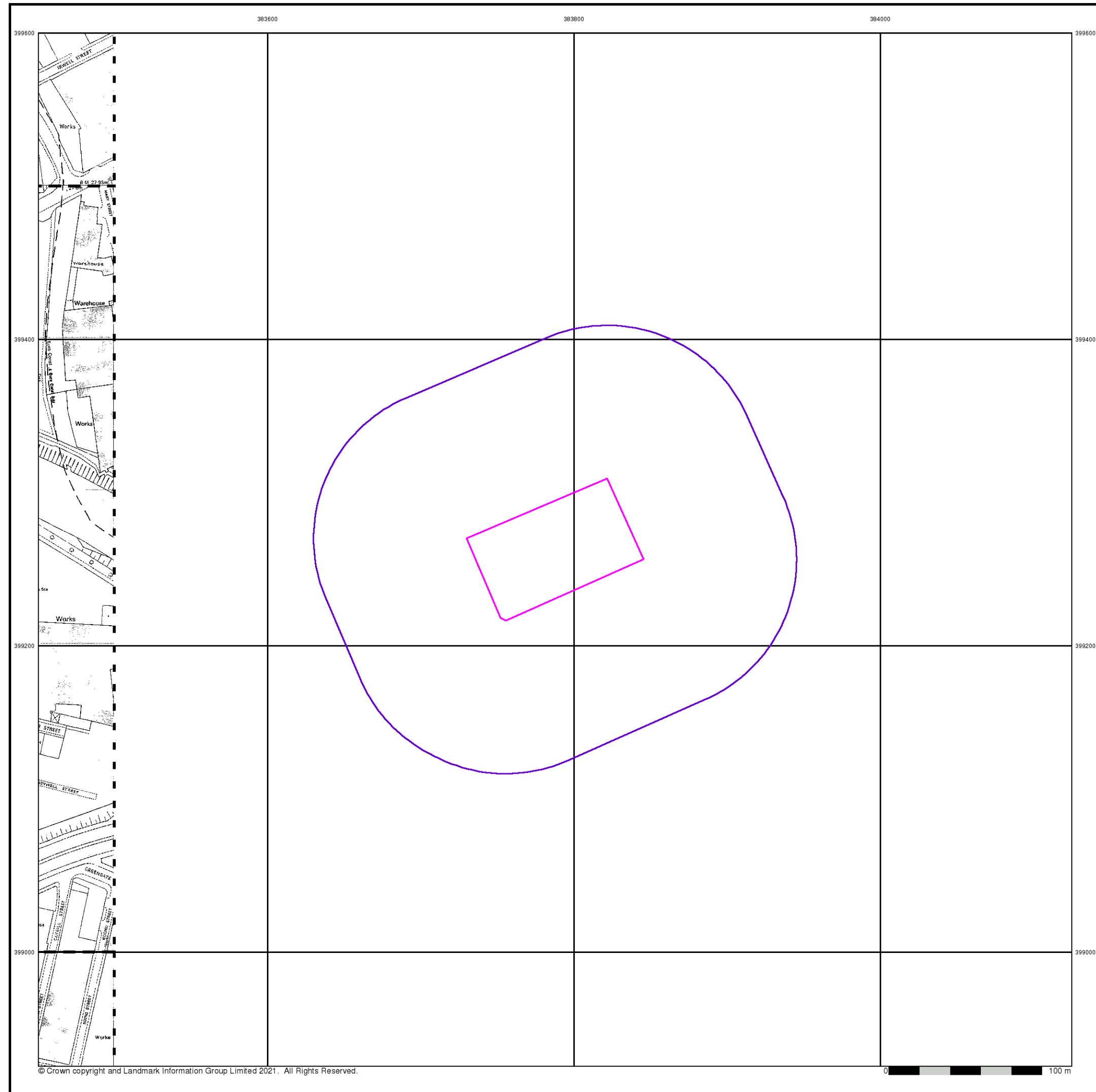
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

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Additional SIMs

Published 1986 - 1988

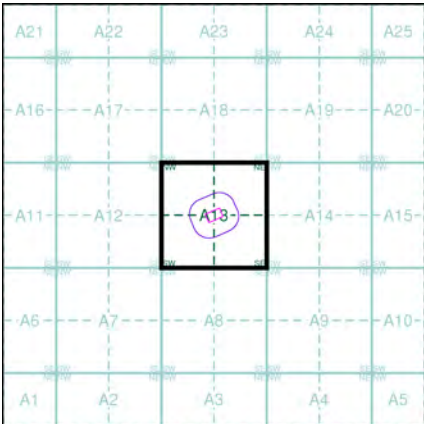
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

5J8399NW	1986	1:1,250
5J8399SW	1987	1:1,250
5J8398NW	1988	1:1,250

Historical Map - Segment A13



Order Details

Order Number:	286062703_1_1
Customer Ref:	15175
National Grid Reference:	383790, 399260
Slice:	A
Site Area (Ha):	0.59
Search Buffer (m):	100

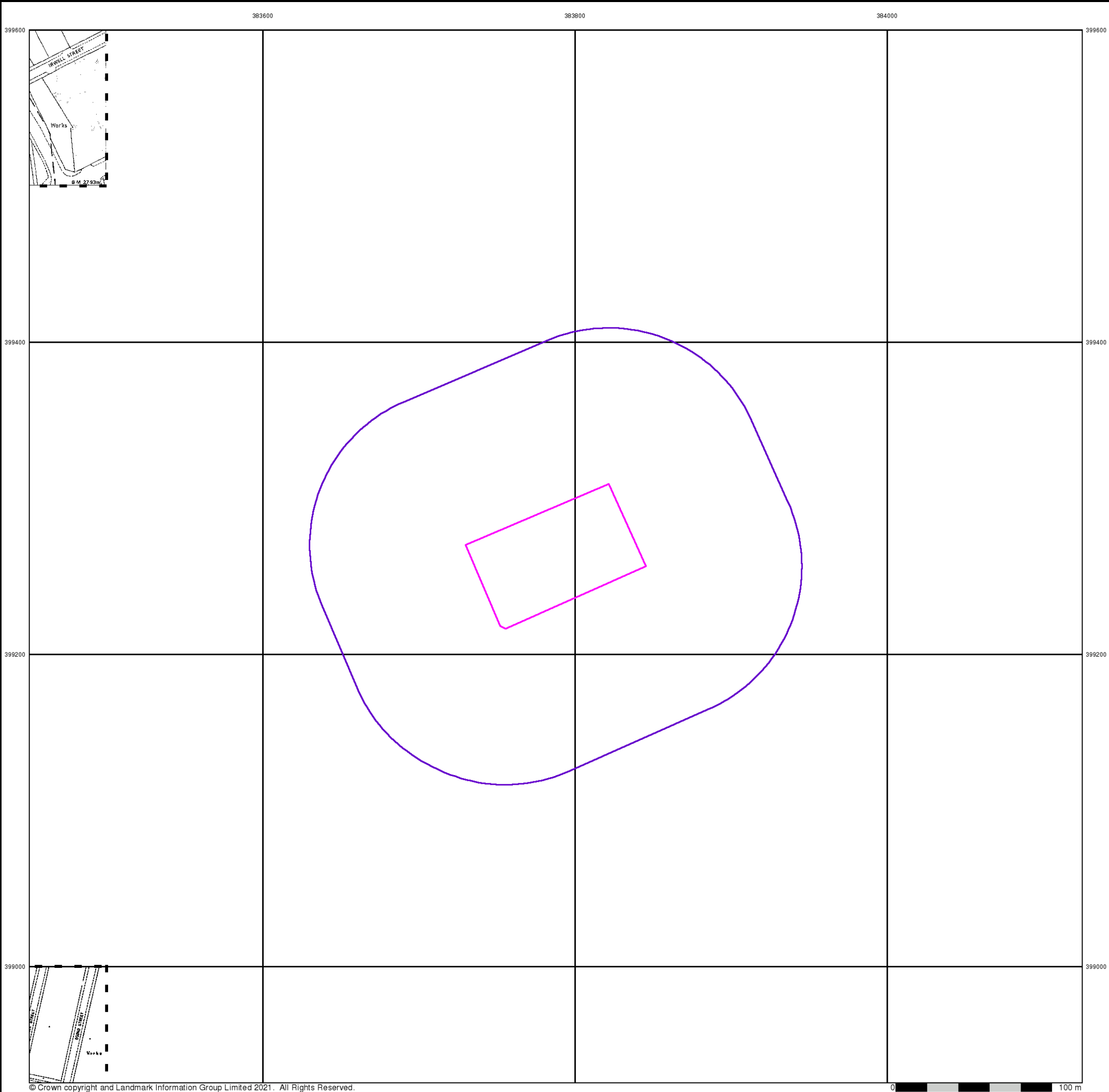
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Additional SIMs

Published 1986 - 1990

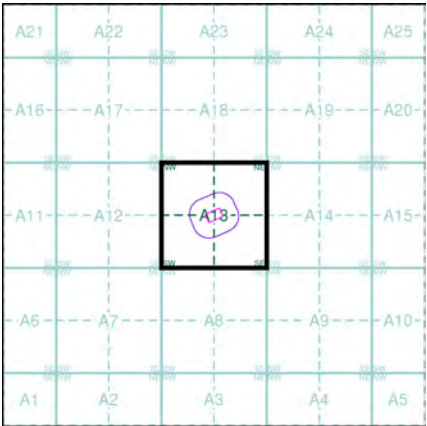
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

5J8399NW	1986	1:1,250
5J8398NW	1990	1:1,250

Historical Map - Segment A13



Order Details

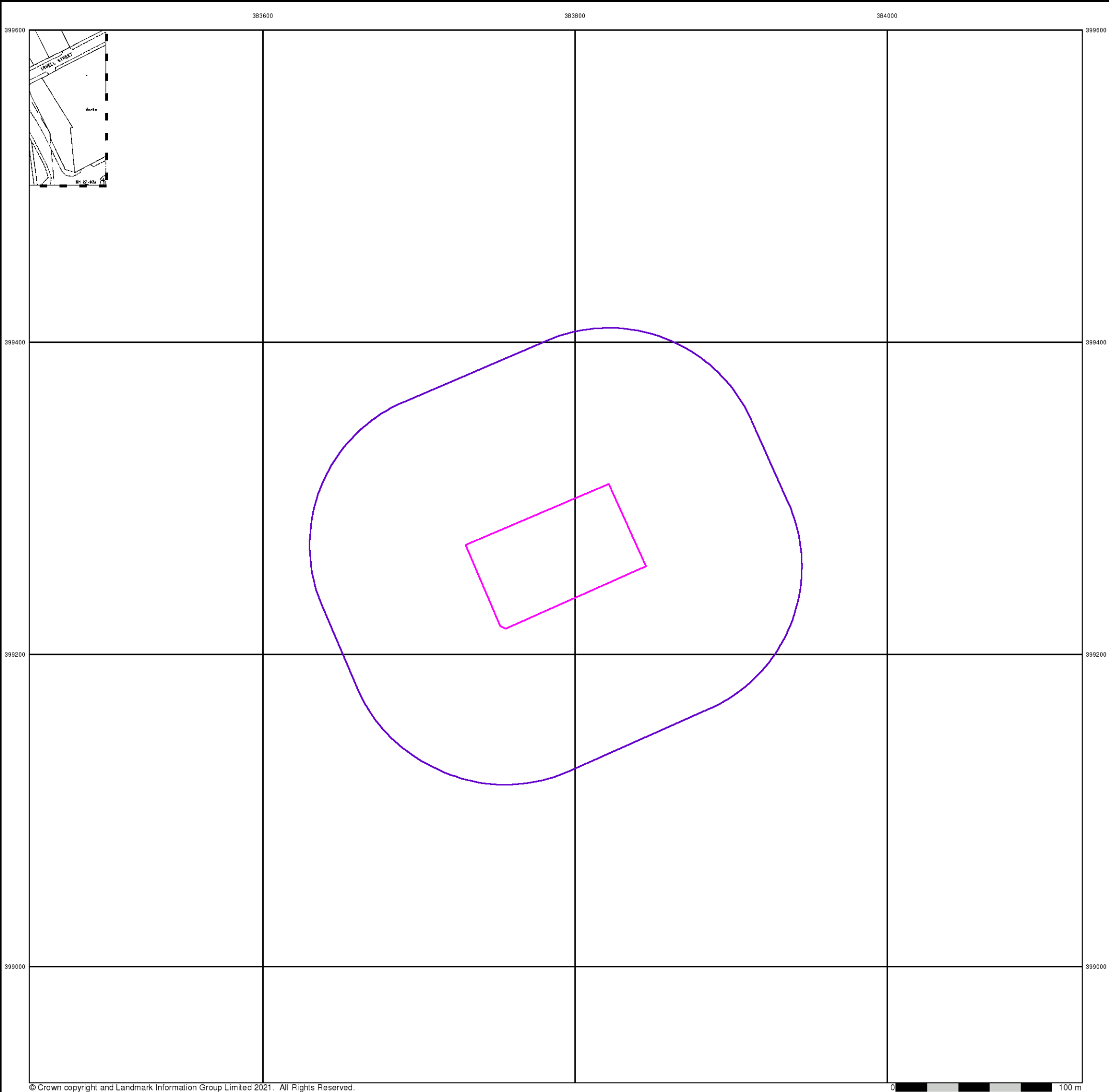
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

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Additional SIMs

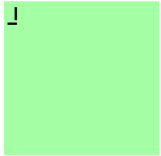
Published 1991

Source map scale - 1:1,250

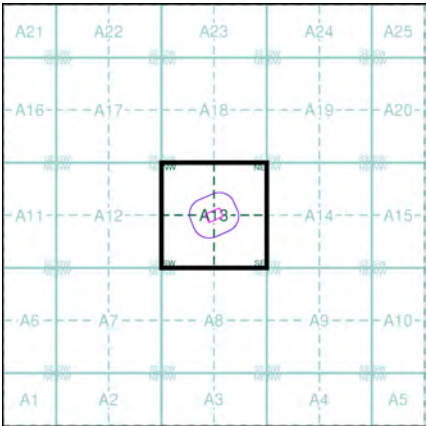
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SJ8399NW
1991
1:1,250



Historical Map - Segment A13



Order Details

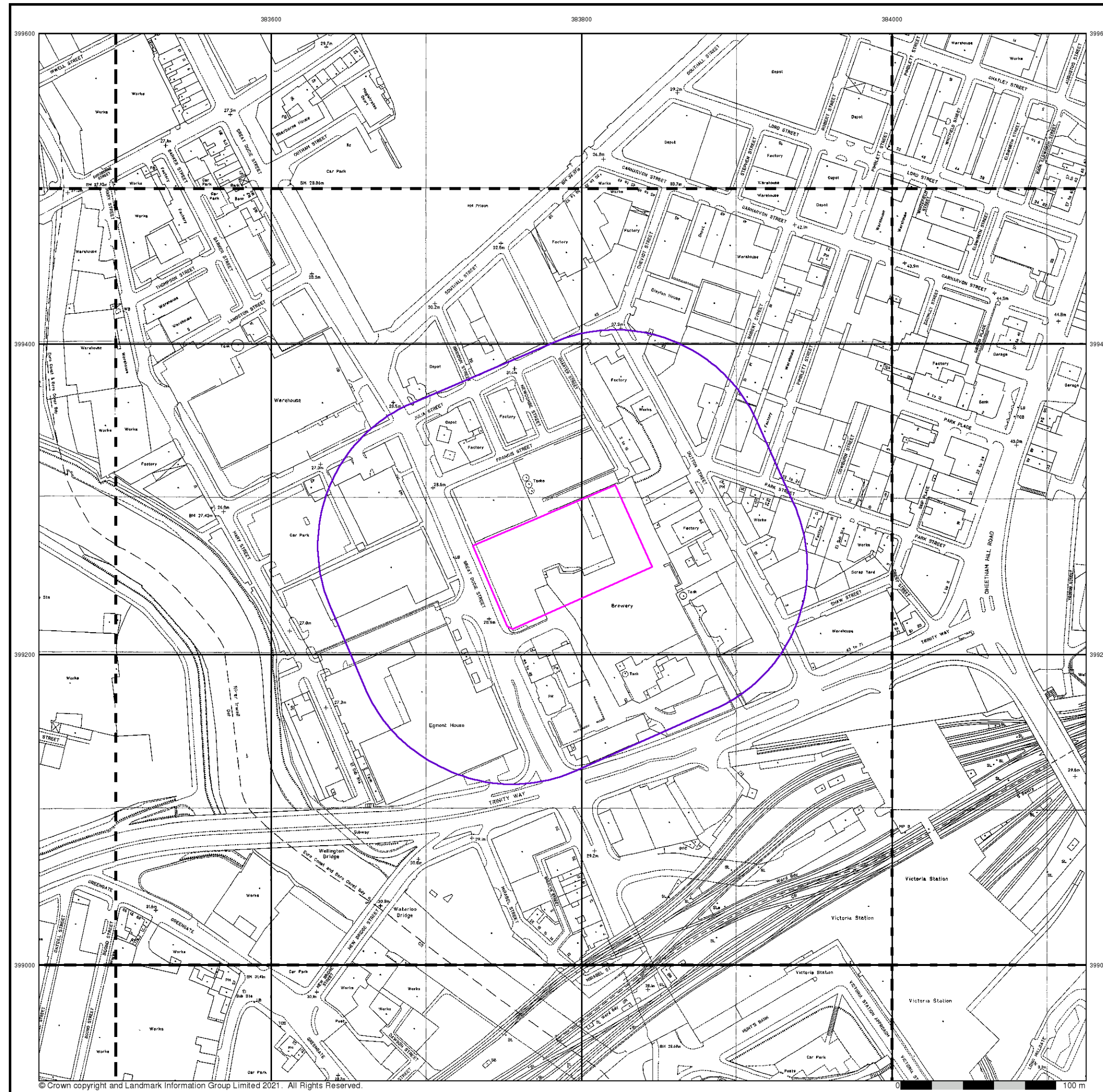
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
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Large-Scale National Grid Data

Published 1992

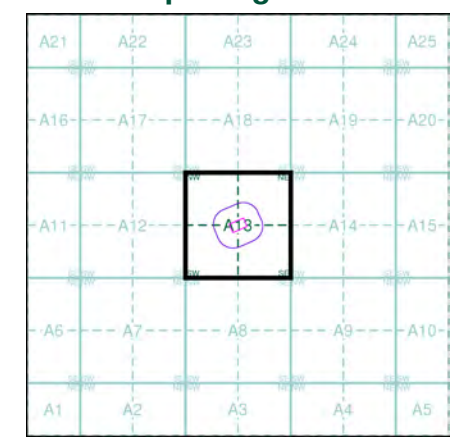
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ8399NW	SJ8399NE	SJ8499NW
1992	1992	1992
1:1,250	1:1,250	1:1,250
SJ8399SW	SJ8399SE	SJ8499SW
1992	1992	1992
1:1,250	1:1,250	1:1,250
SJ8398NW	SJ8398NE	SJ8498NW
1992	1992	1992
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

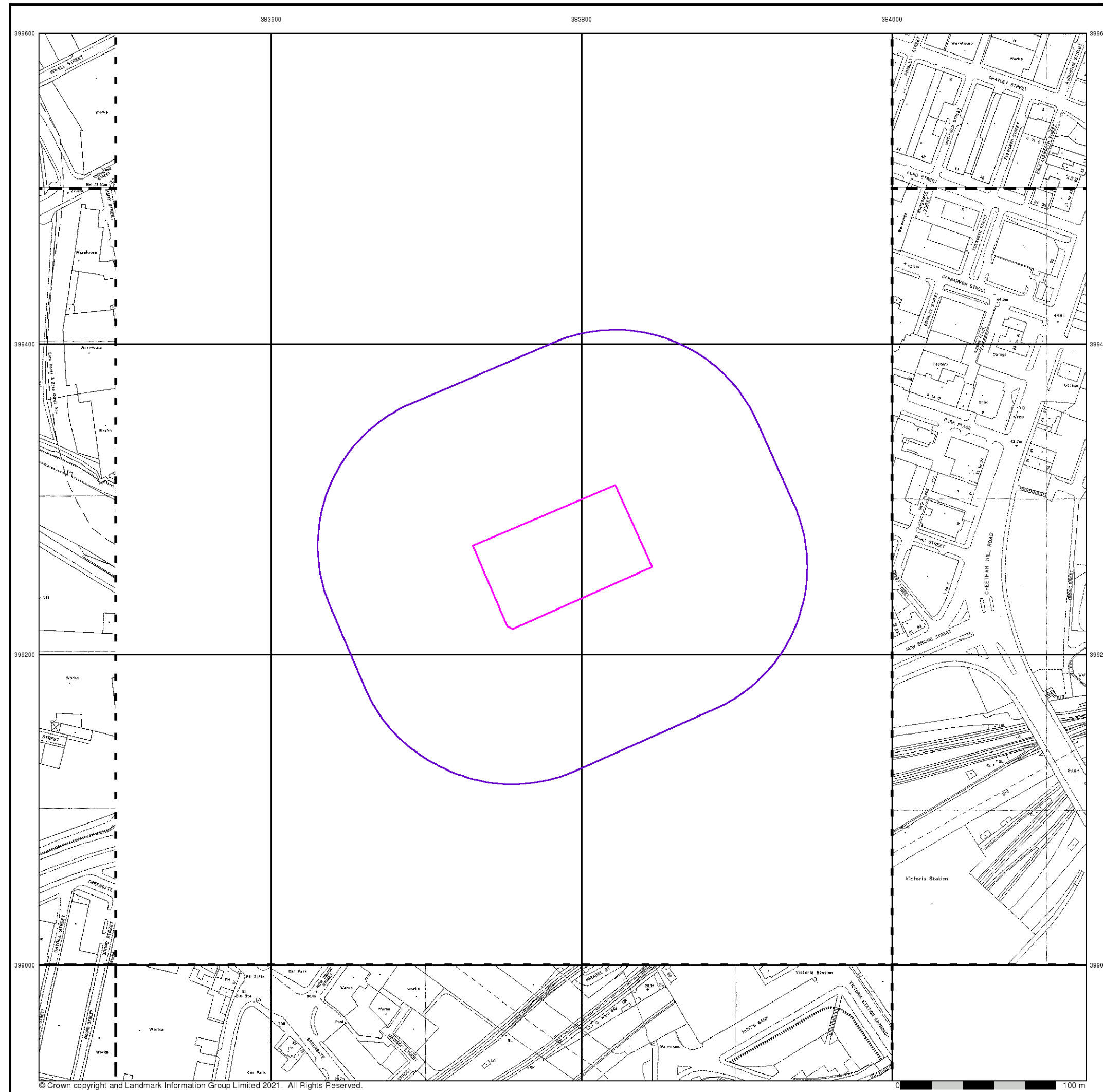
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
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Large-Scale National Grid Data

Published 1993 - 1995

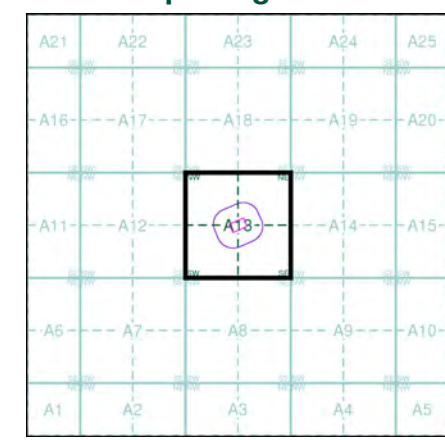
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ8399NW	SJ8499NW
1993	1993
1:1,250	1:1,250
SJ8399SW	SJ8499SW
1994	1995
1:1,250	1:1,250
SJ8398NW	SJ8398NE
1994	1994
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

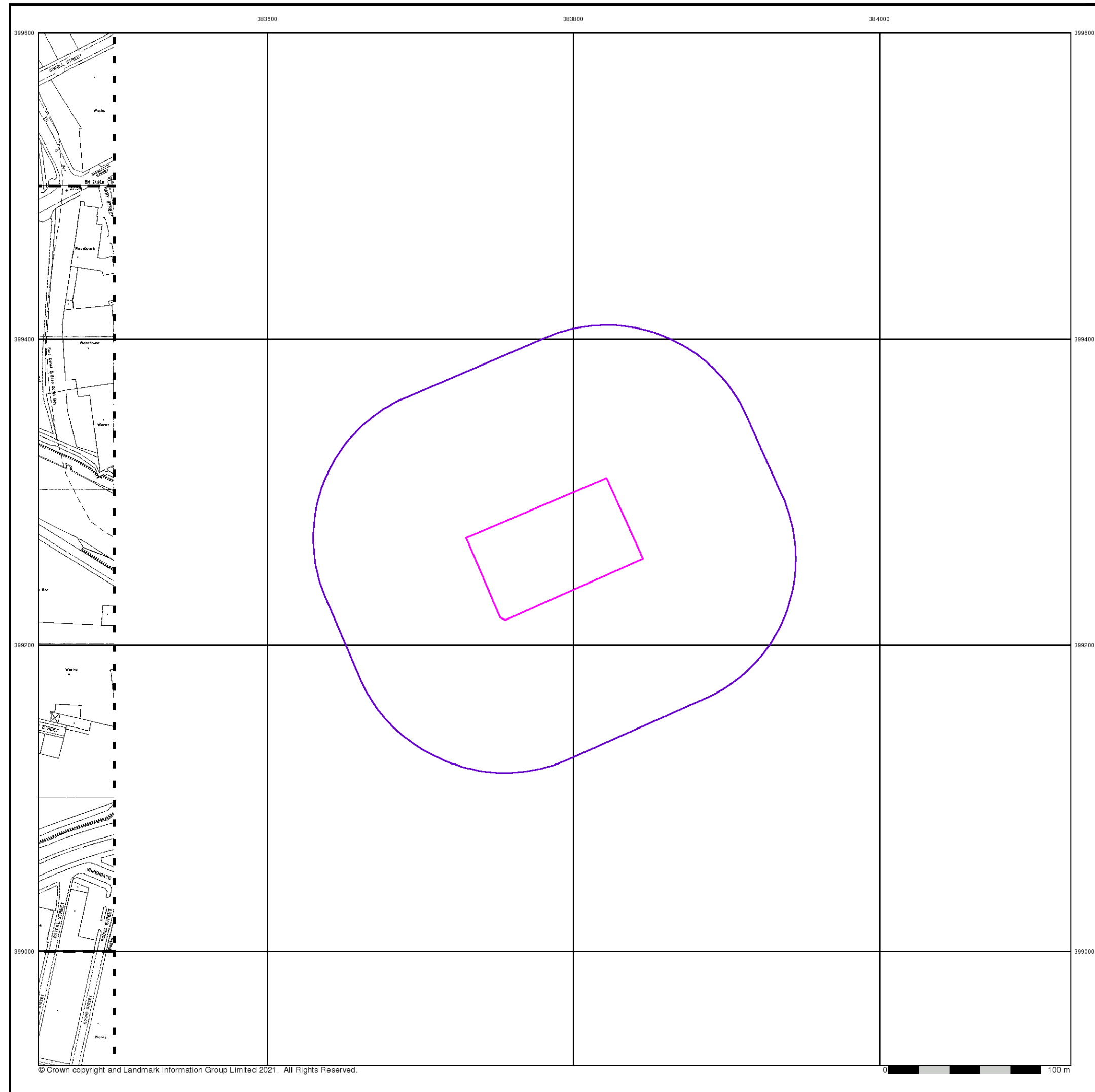
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
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Large-Scale National Grid Data

Published 1994 - 1995

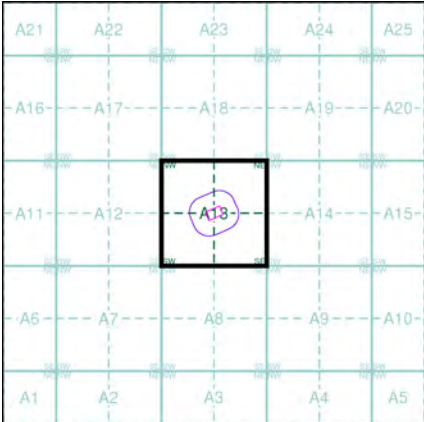
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

5J8399NW	1995	1:1,250
5J8399SW	1994	1:1,250
5J8398NW	1995	1:1,250

Historical Map - Segment A13



Order Details

Order Number:	286062703_1_1
Customer Ref:	15175
National Grid Reference:	383790, 399260
Slice:	A
Site Area (Ha):	0.59
Search Buffer (m):	100

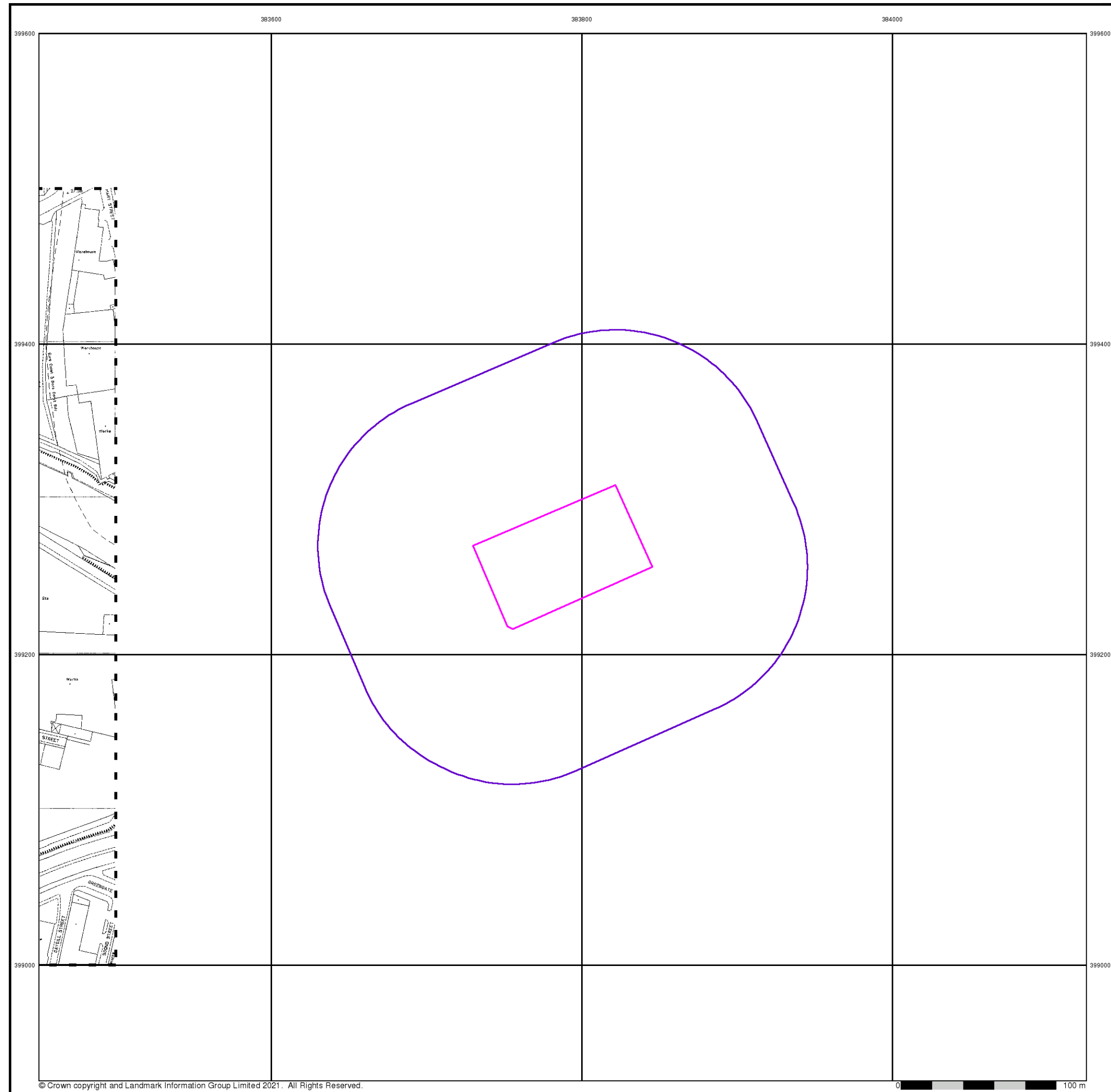
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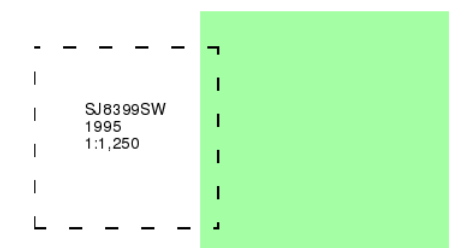
Large-Scale National Grid Data

Published 1995

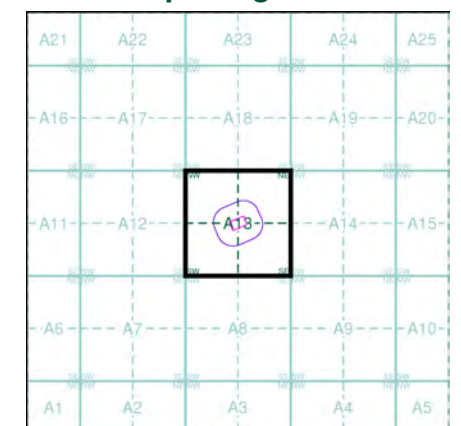
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
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Large-Scale National Grid Data

Published 1996

Source map scale - 1:1,250

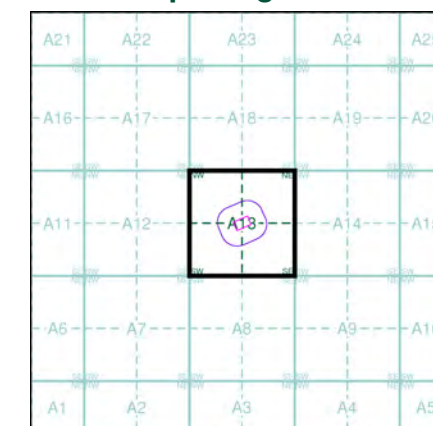
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

Map Name(s) and Date(s)

SJ8399NE
1996
1:1,250

SJ8399SE
1996
1:1,250

Historical Map - Segment A13



Order Details

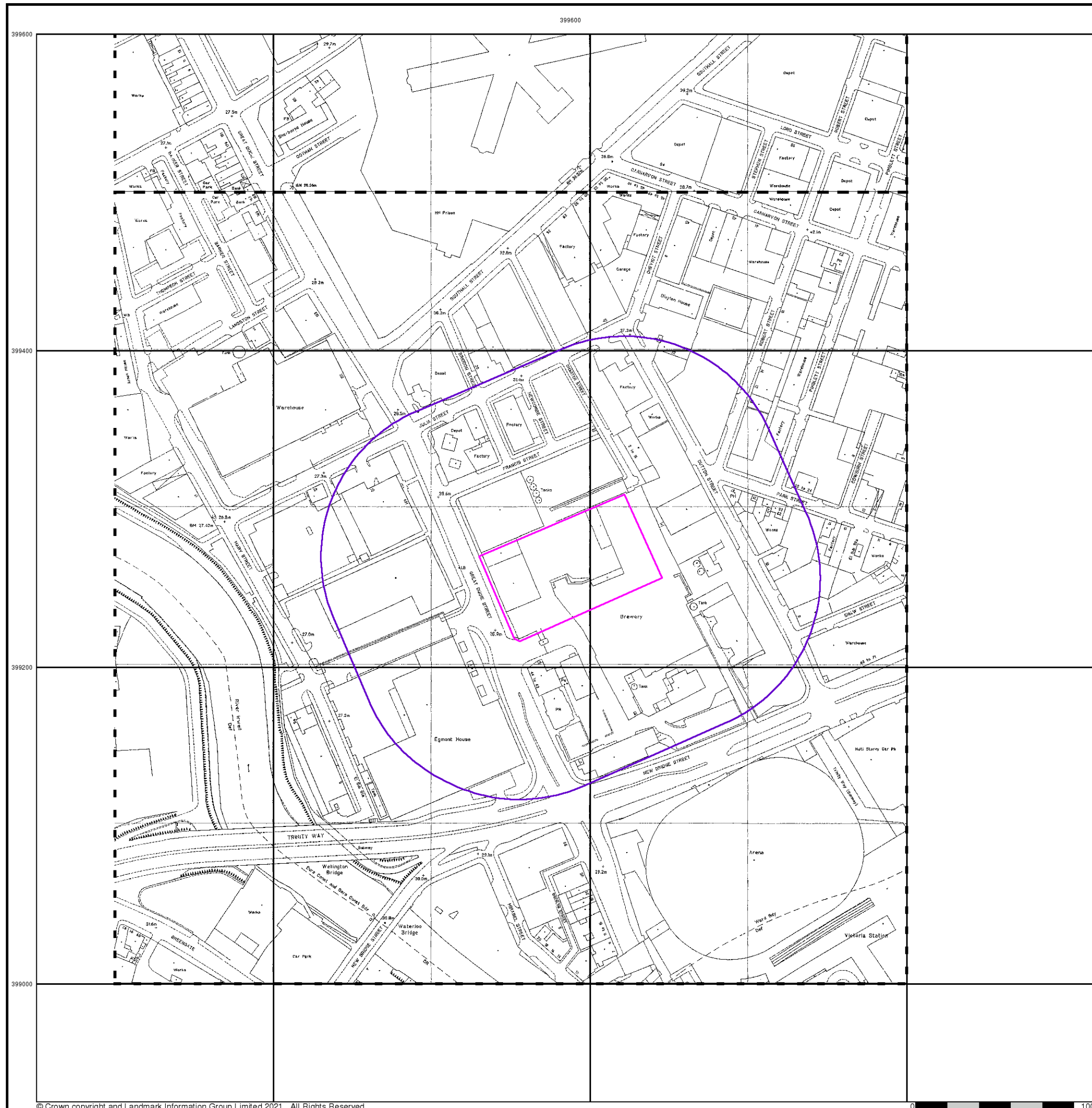
Order Number: 286062703_1_1
Customer Ref: 15175
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Site Area (Ha): 0.59
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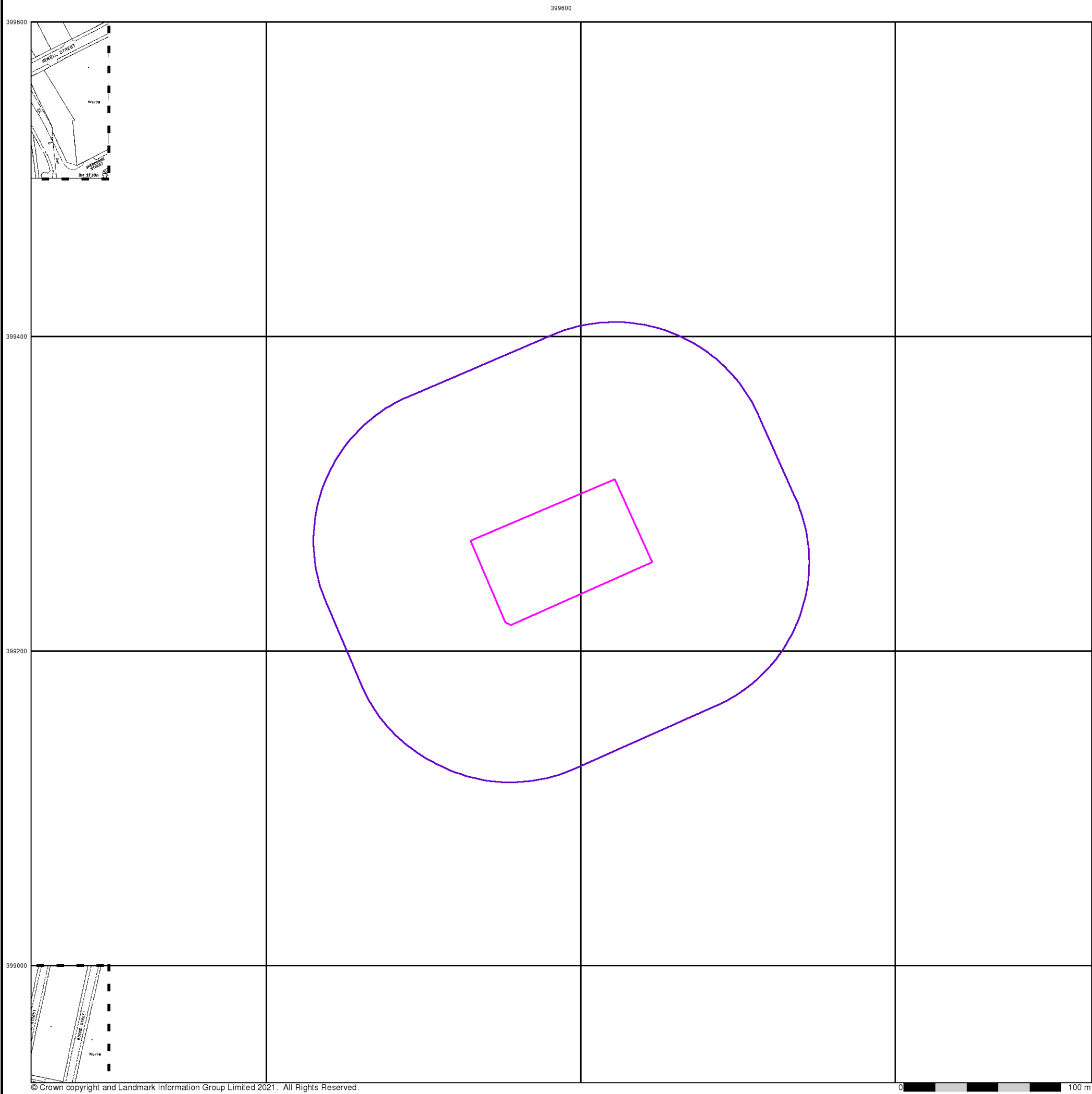
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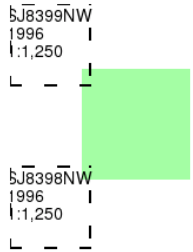
Large-Scale National Grid Data

Published 1996

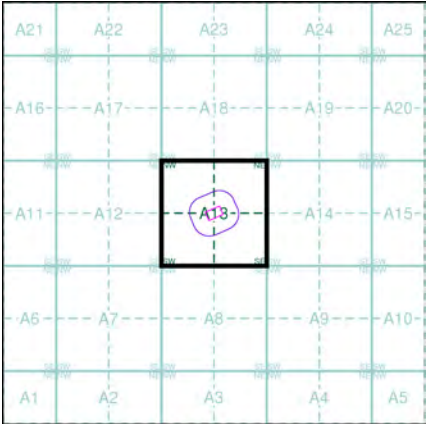
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

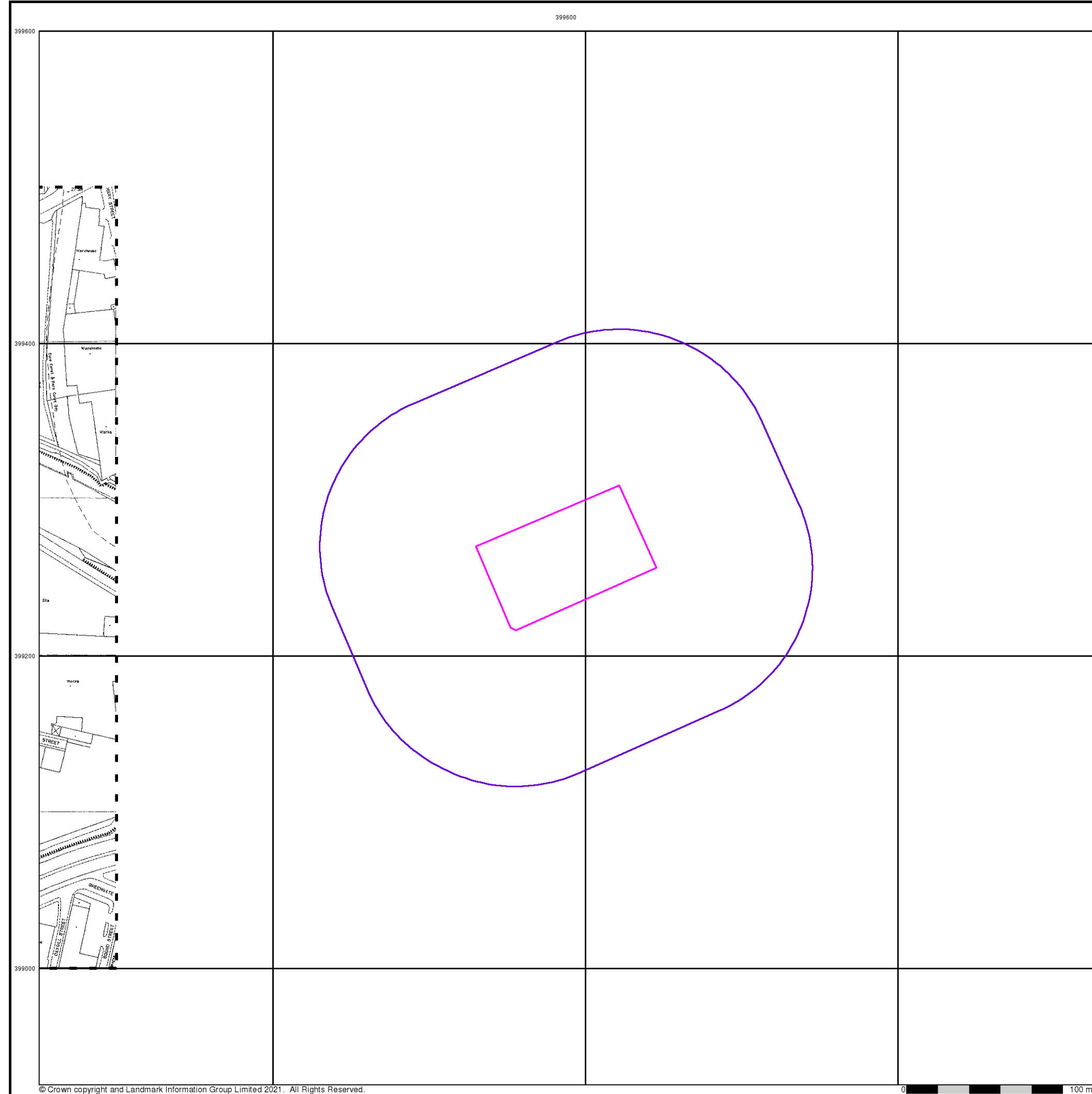
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
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0 100 m



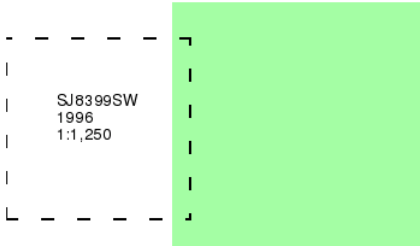
Large-Scale National Grid Data

Published 1996

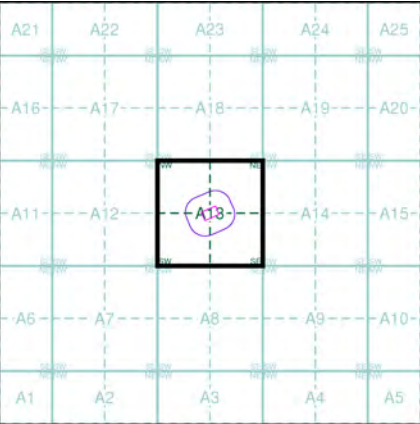
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Great Ducie Street, MANCHESTER



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

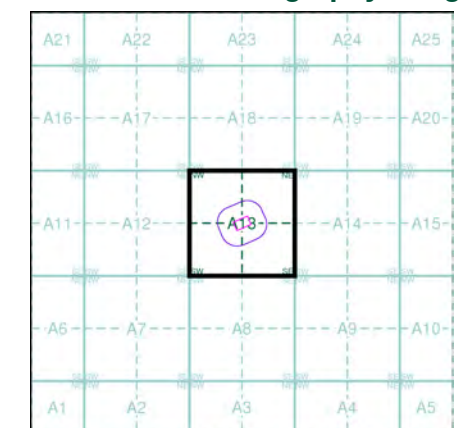


Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

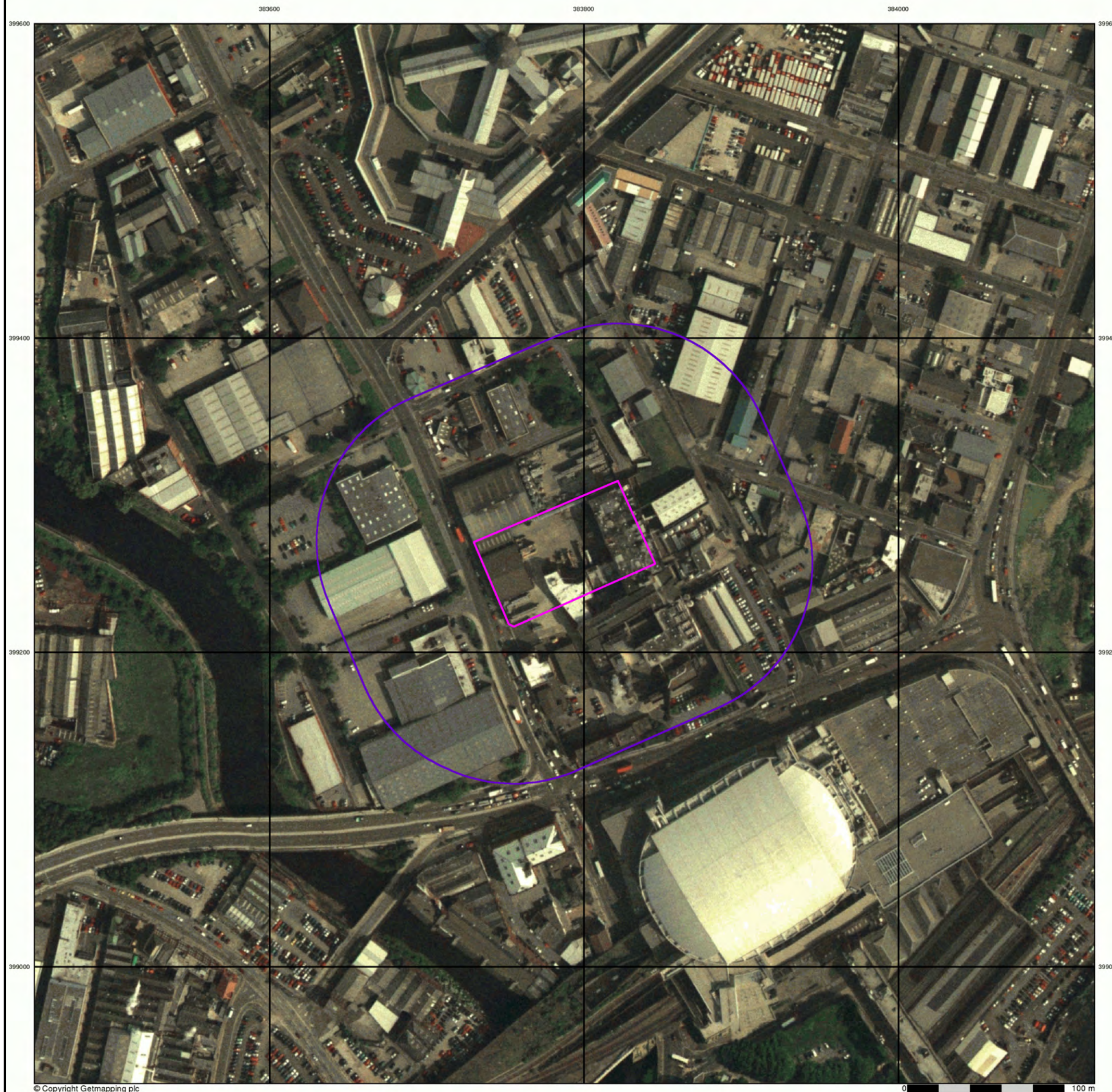
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Great Ducie Street, MANCHESTER

Landmark
INFORMATION GROUP

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

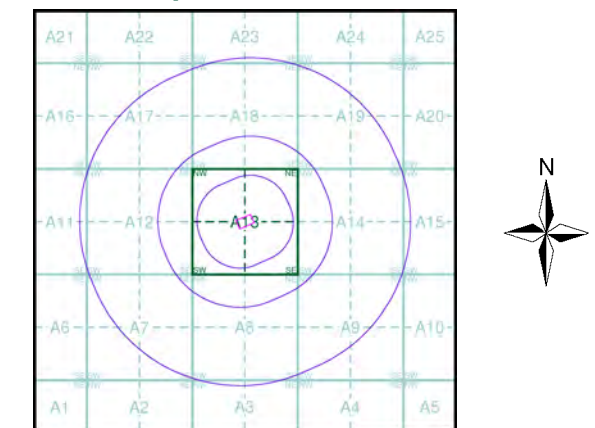
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894 - 1896	5
Lancashire And Furness	1:10,560	1909	6
Lancashire And Furness	1:10,560	1923	7
Lancashire And Furness	1:10,560	1931 - 1933	8
Lancashire And Furness	1:10,560	1938	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1966 - 1968	11
Ordnance Survey Plan	1:10,000	1972 - 1979	12
Manchester	1:25,000	1975	13
Ordnance Survey Plan	1:10,000	1980 - 1986	14
Ordnance Survey Plan	1:10,000	1985 - 1987	15
Ordnance Survey Plan	1:10,000	1989	16
Ordnance Survey Plan	1:10,000	1990 - 1994	17
10K Raster Mapping	1:10,000	1999	18
10K Raster Mapping	1:10,000	2006	19
VectorMap Local	1:10,000	2021	20

Historical Map - Slice A



Order Details

Order Number: 286062703_1_1
 Customer Ref: 15175
 National Grid Reference: 383790, 399260
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Great Ducie Street, MANCHESTER

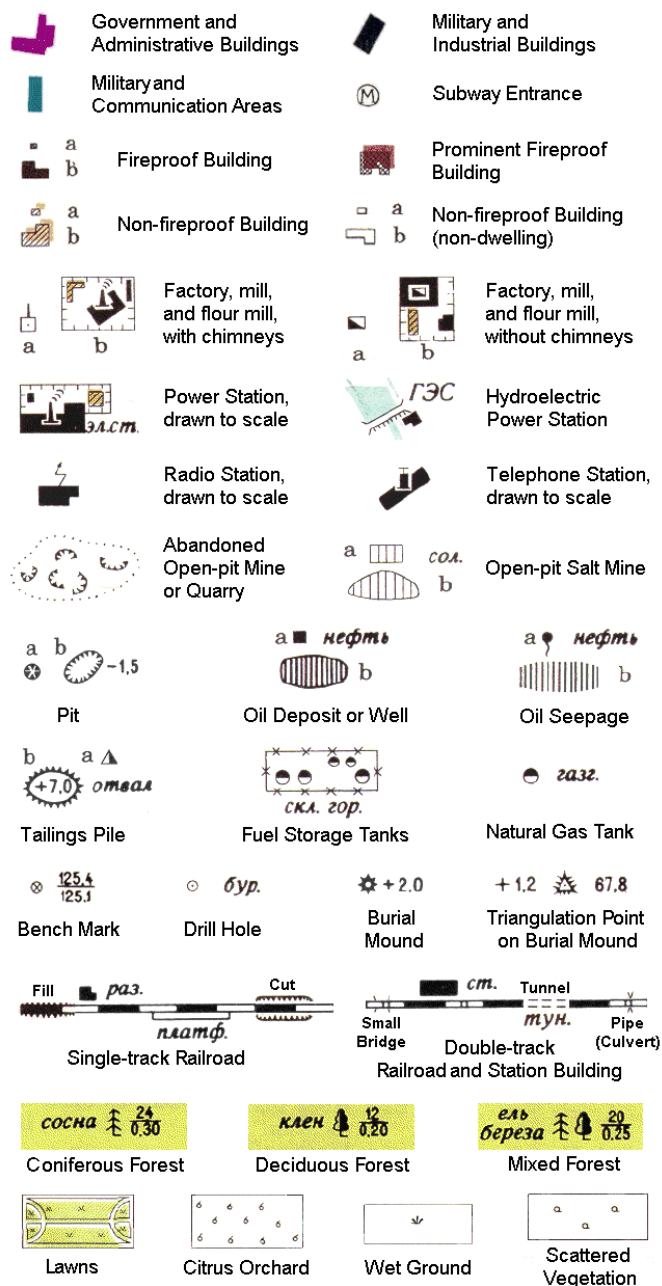


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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale



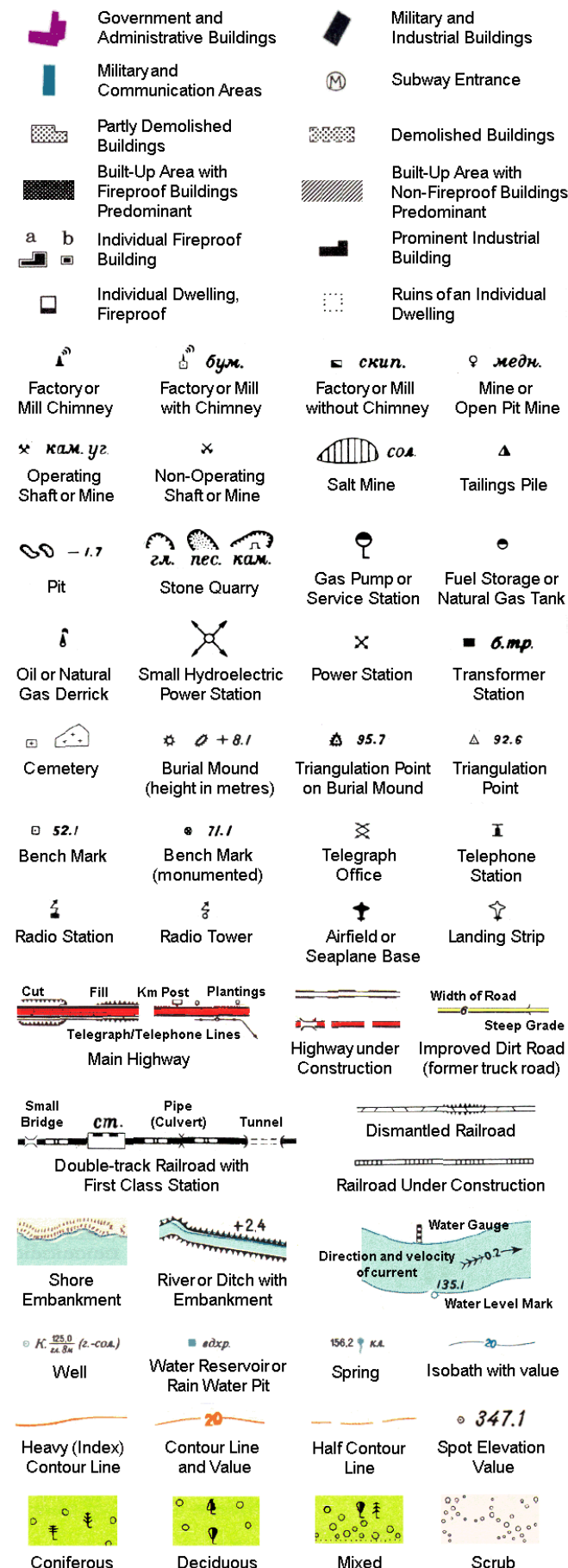
243.8 Values for prominent elevations
186.0 Numbers for spot elevations, depth soundings, contour lines, etc.
0.2 Velocity of the current, width of river bed, depth of river
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A) **З з (Z)** **П п (P)** **Ч ч (CH)**
Б б (B) **И и (I)** **Р р (R)** **Ш ш (SH)**
В в (V) **Й й (Y)** **С с (S)** **Щ щ (SHCH)**
Г г (G) **К к (K)** **Т т (T)** **Ъ (-)**
Д д (D) **Л л (L)** **У у (U)** **Ы (Y)**
Е е (E) **М м (M)** **Ф ф (F)** **Ь (')**
Ё ё (YO) **Н н (N)** **Х х (KH)** **Э э (E)**
Ж ж (ZH) **О о (O)** **Ц ц (TS)** **Ю ю (YU or IU)**
Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale



Key to Numbers on Mapping

SJ89_Manchester

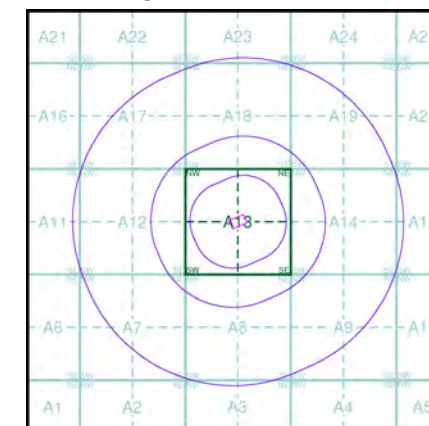
No.	Description
62	Factory (Gas)
63	Factory (Gas)
93	Factory (Metal Works)
157	Police Station/Headquarters
168	Post Office
211	Council/Government Buildings/Courts
216	Prison
248	Power Station (Electric)



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894 - 1896	5
Lancashire And Furness	1:10,560	1909	6
Lancashire And Furness	1:10,560	1923	7
Lancashire And Furness	1:10,560	1931 - 1933	8
Lancashire And Furness	1:10,560	1938	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1966 - 1968	11
Ordnance Survey Plan	1:10,000	1972 - 1979	12
Manchester	1:25,000	1975	13
Ordnance Survey Plan	1:10,000	1980 - 1986	14
Ordnance Survey Plan	1:10,000	1985 - 1987	15
Ordnance Survey Plan	1:10,000	1989	16
Ordnance Survey Plan	1:10,000	1990 - 1994	17
10K Raster Mapping	1:10,000	1999	18
10K Raster Mapping	1:10,000	2006	19
VectorMap Local	1:10,000	2021	20

Russian Map - Slice A



Order Details

Order Number: 286062703_1_1
 Customer Ref: 15175
 National Grid Reference: 383790, 399260
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Great Ducie Street, MANCHESTER



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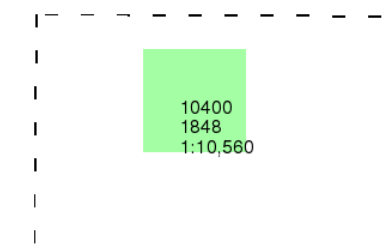
Lancashire And Furness

Published 1848

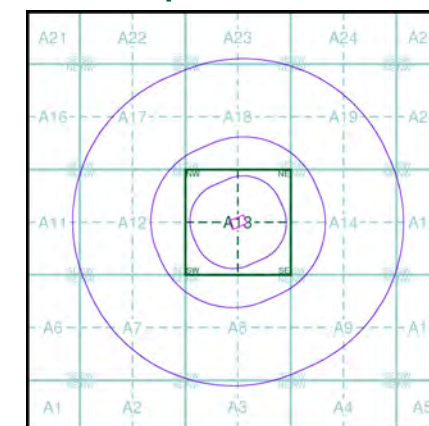
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

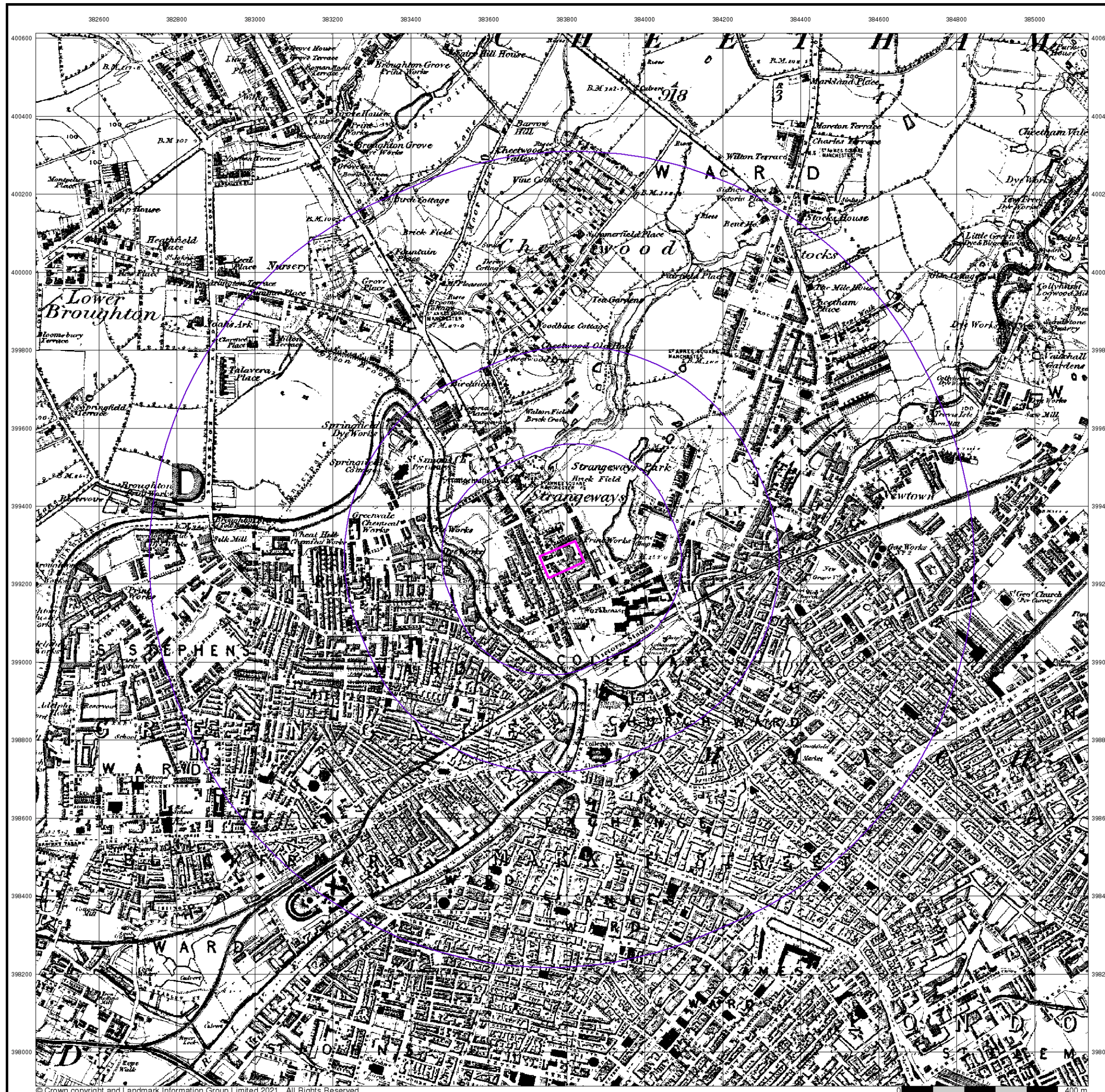
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

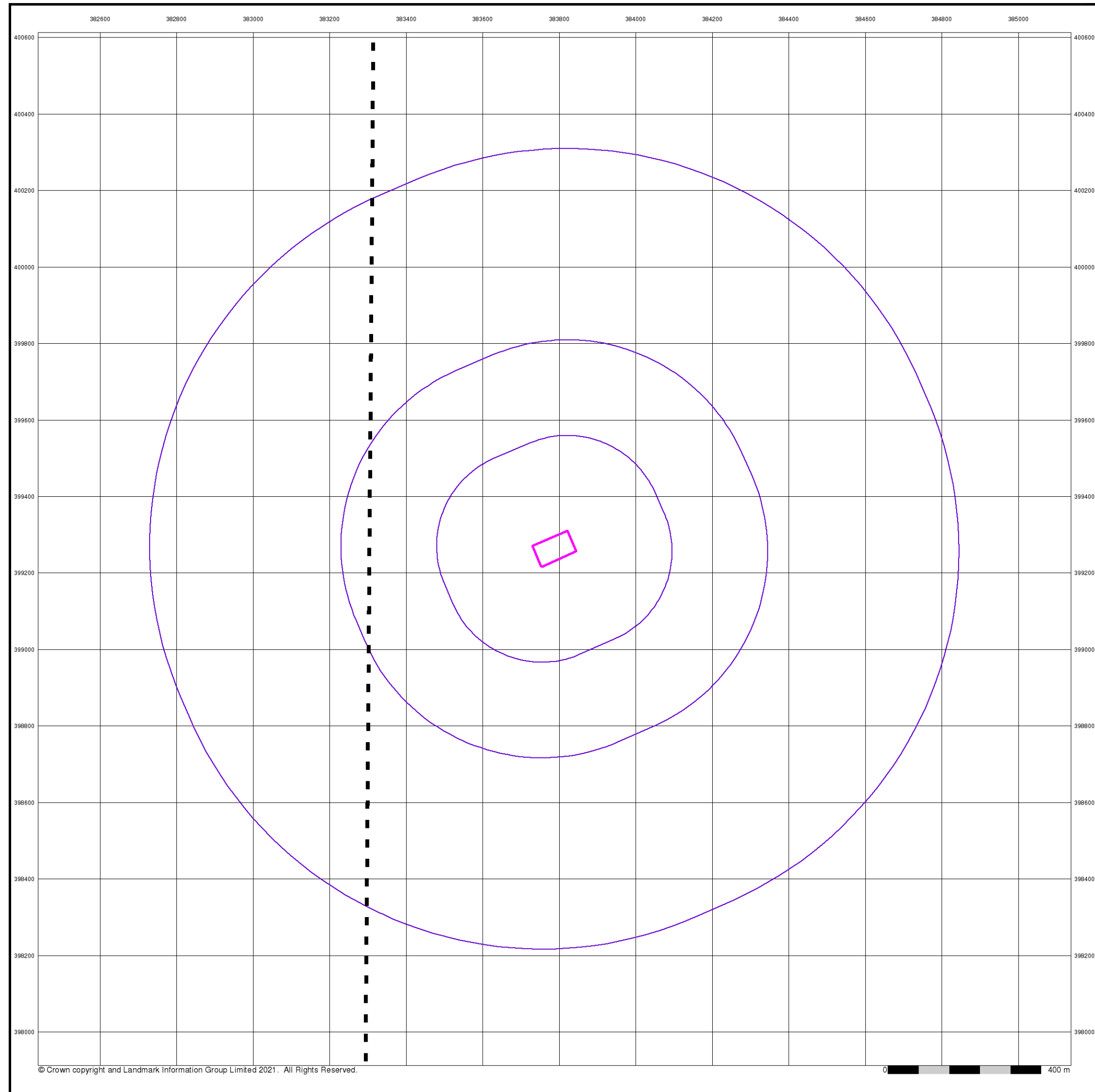
Site Details

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Cheshire

Published 1882

Source map scale - 1:10,560

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Map Name(s) and Date(s)

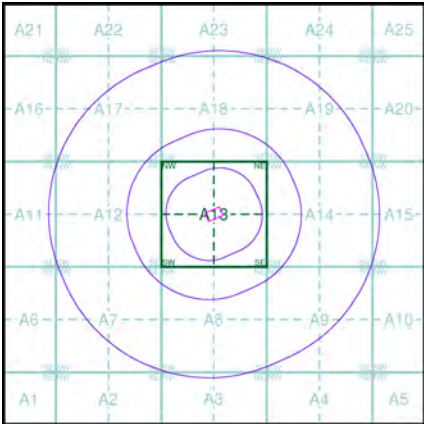


003A00

1882

1:10,560

Historical Map - Slice A



Order Details

Order Number:	286062703_1_1
Customer Ref:	15175
National Grid Reference:	383790, 399260
Slice:	A
Site Area (Ha):	0.59
Search Buffer (m):	1000

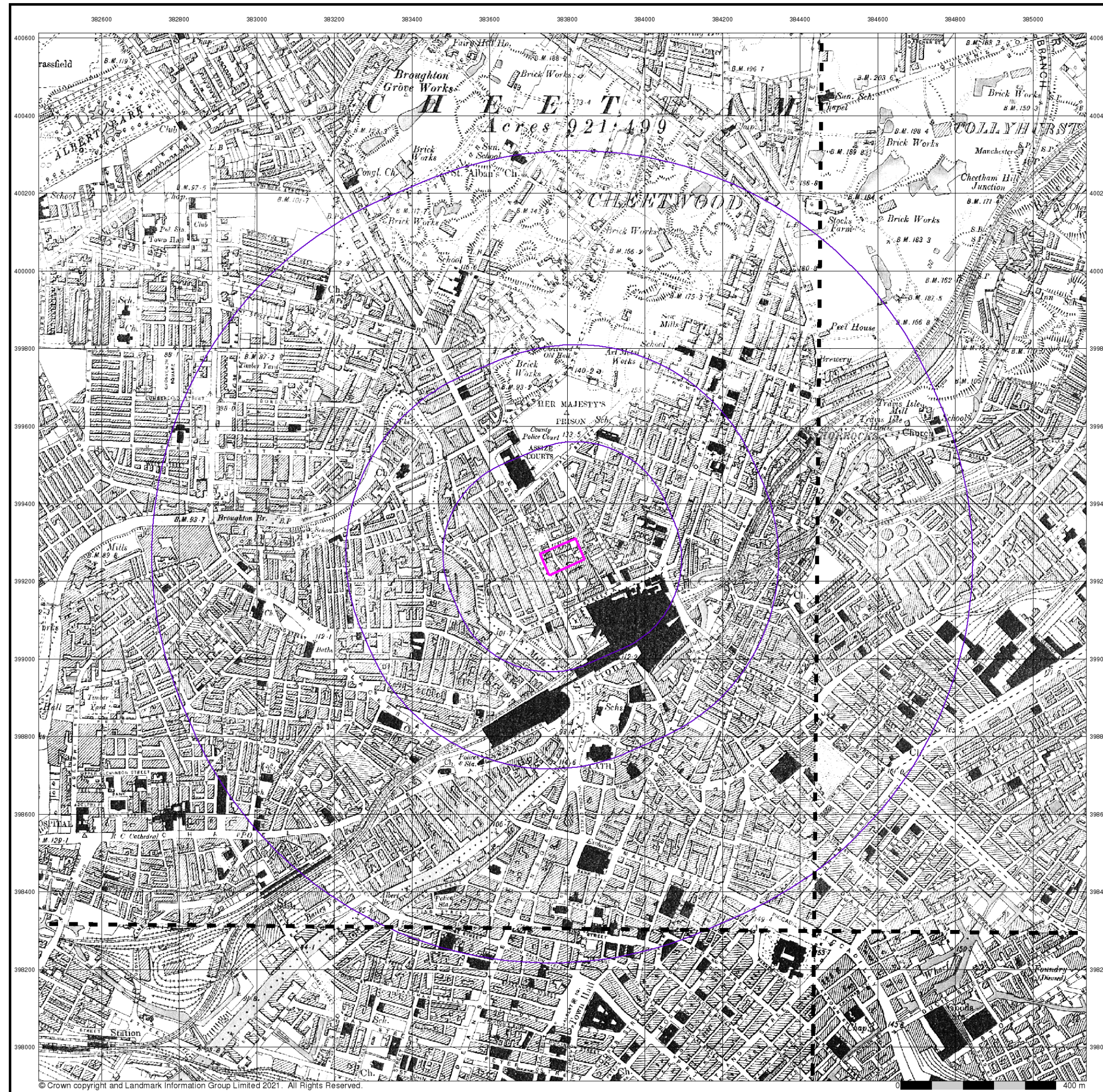
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A Landmark Information Group Service v50.0 08-Oct-2021 Page 4 of 20



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Lancashire And Furness

Published 1894 - 1896

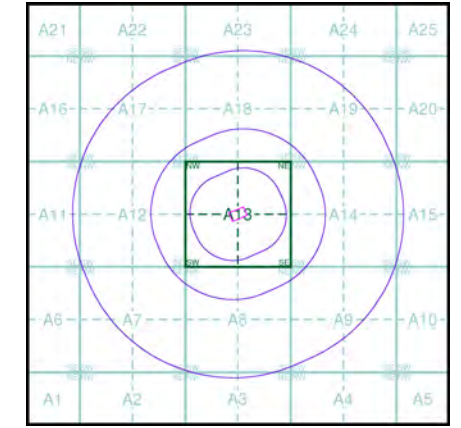
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

104NW 1894 1:10,560	104NE 1894 1:10,560
104SW 1896 1:10,560	104SE 1894 1:10,560

Historical Map - Slice A



Order Details

Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
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Lancashire And Furness

Published 1909

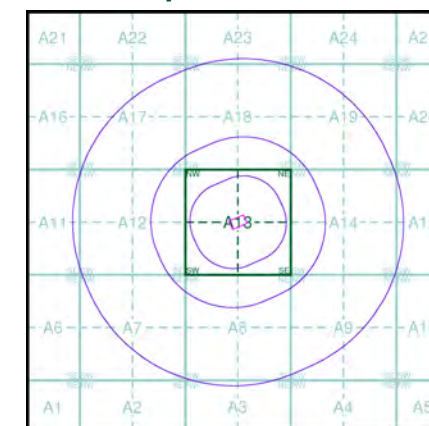
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

104NW 1909 1:10,560	104NE 1909 1:10,560
104SW 1909 1:10,560	104SE 1909 1:10,560

Historical Map - Slice A



Order Details

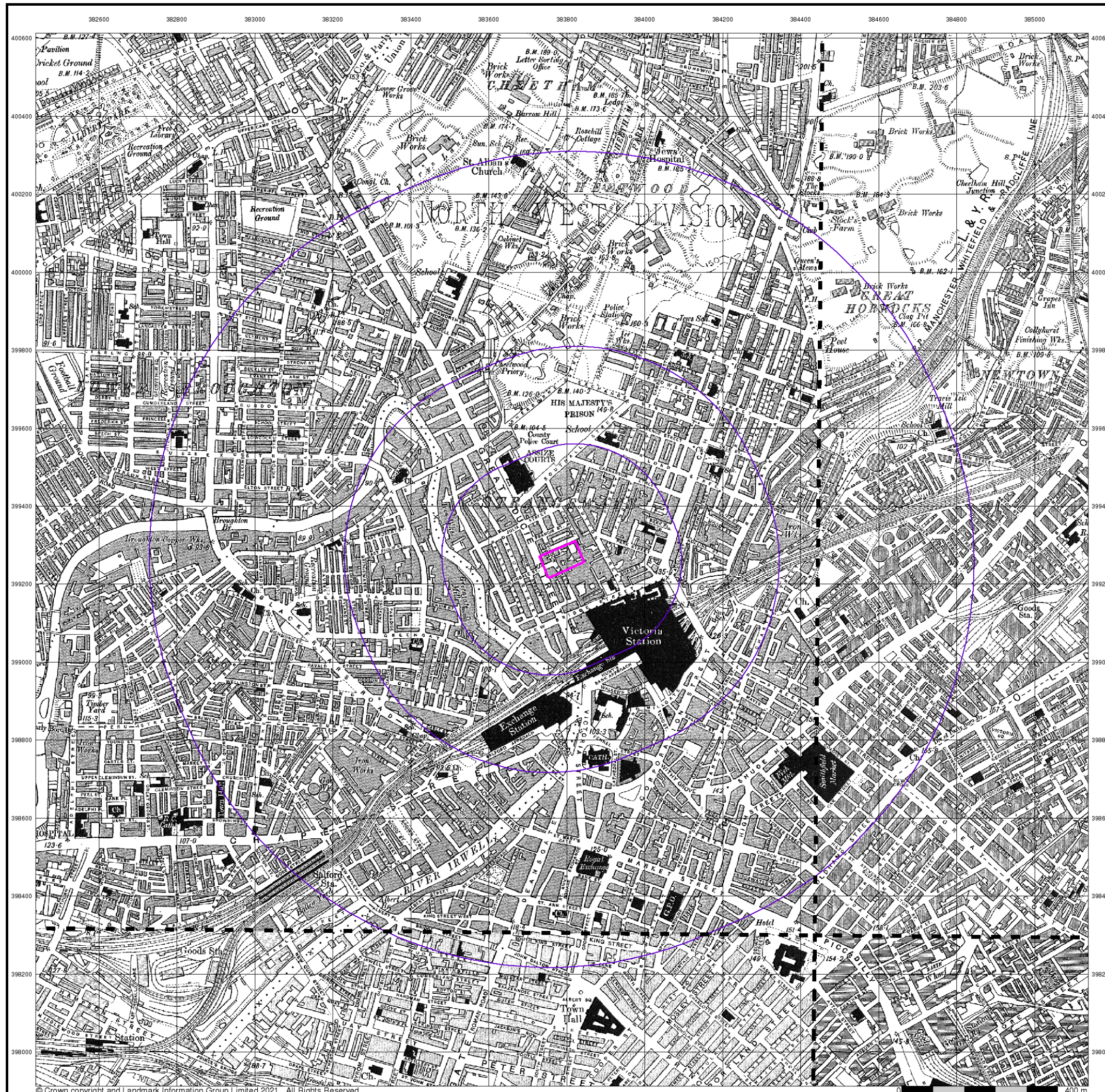
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Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

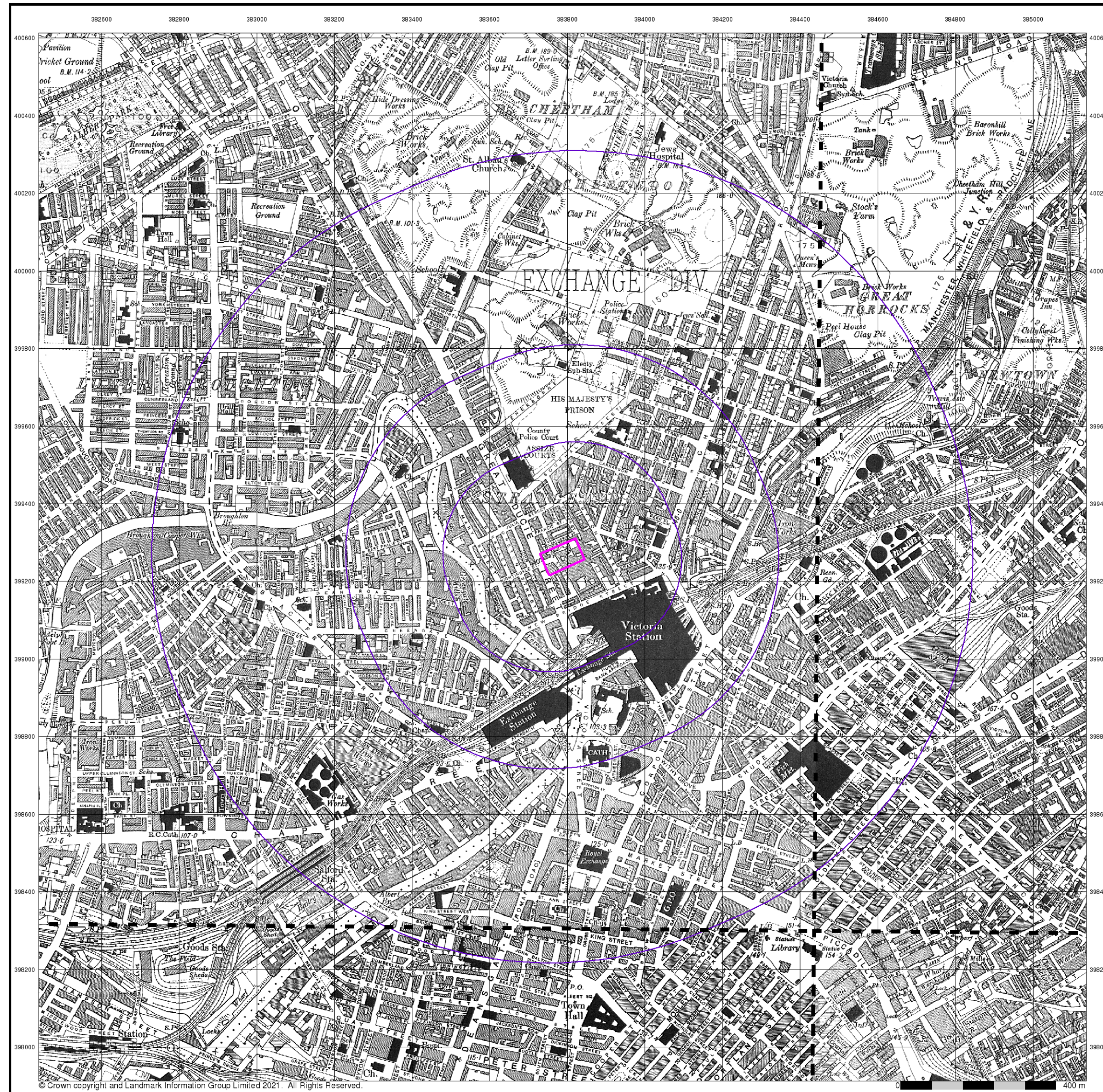
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Lancashire And Furness

Published 1923

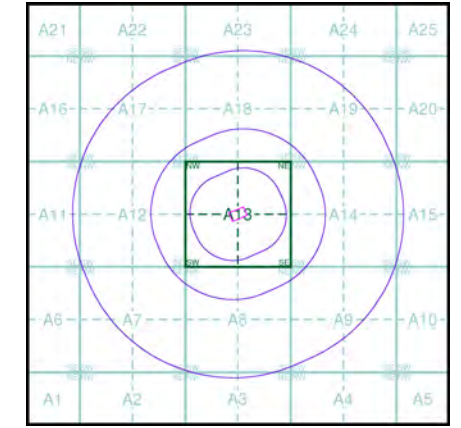
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

104NW 1923 1:10,560	104NE 1923 1:10,560
104SW 1923 1:10,560	104SE 1923 1:10,560

Historical Map - Slice A



Order Details

Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
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Lancashire And Furness

Published 1931 - 1933

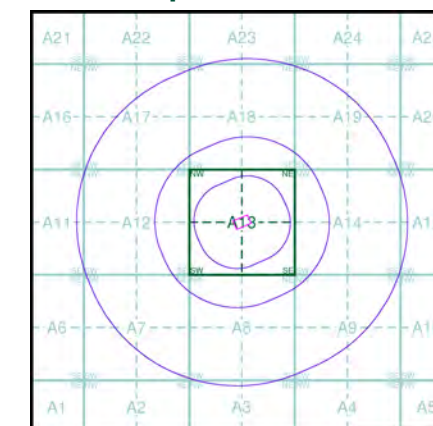
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

104NW 1931 1:10,560	104NE 1932 1:10,560
104SW 1932 1:10,560	104SE 1933 1:10,560

Historical Map - Slice A



Order Details

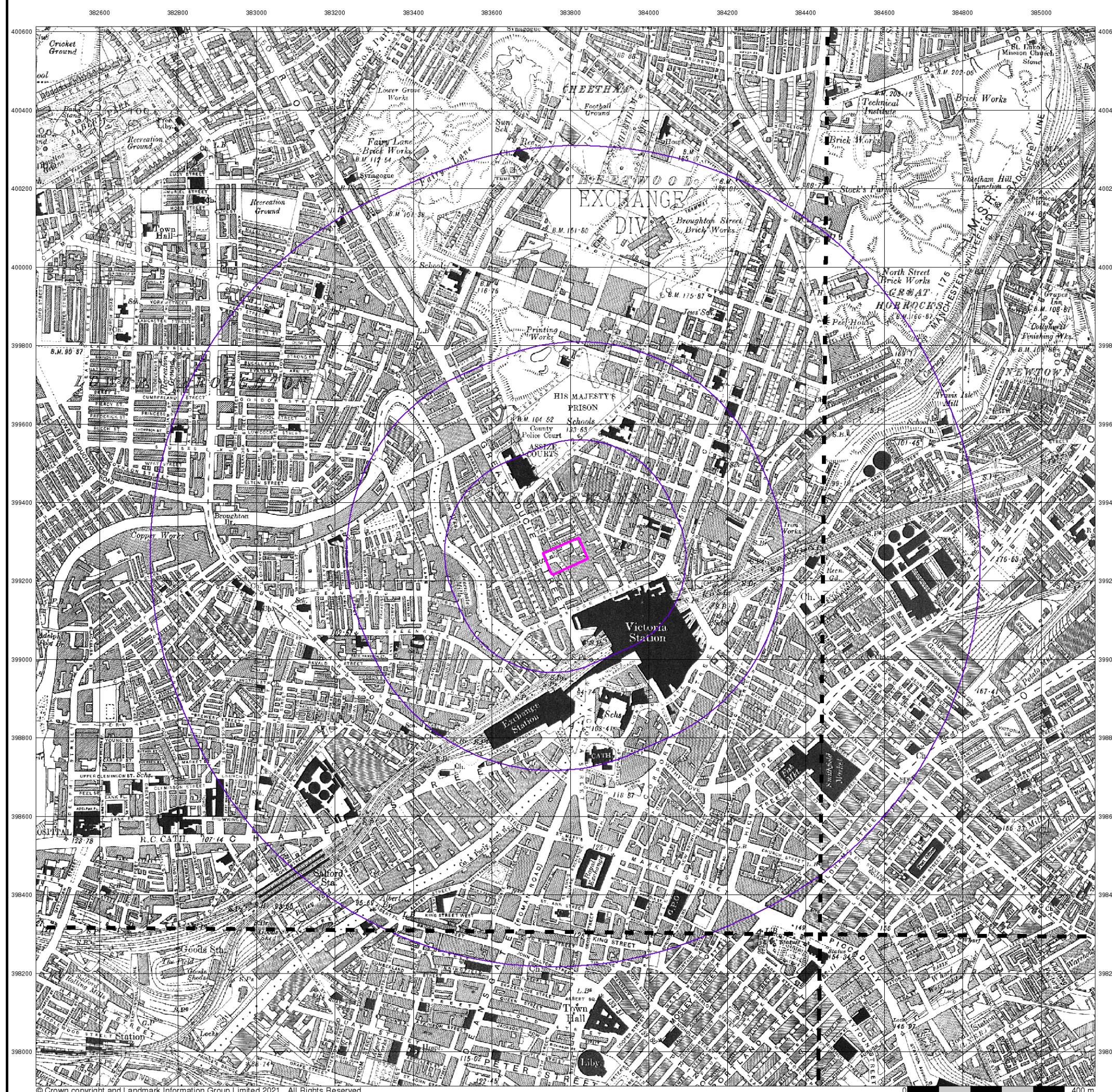
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

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Lancashire And Furness

Published 1938

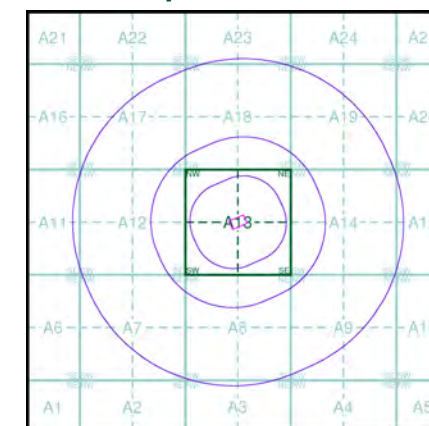
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

104NW 1938 1:10,560	104NE 1938 1:10,560
104SW 1938 1:10,560	104SE 1938 1:10,560

Historical Map - Slice A



Order Details

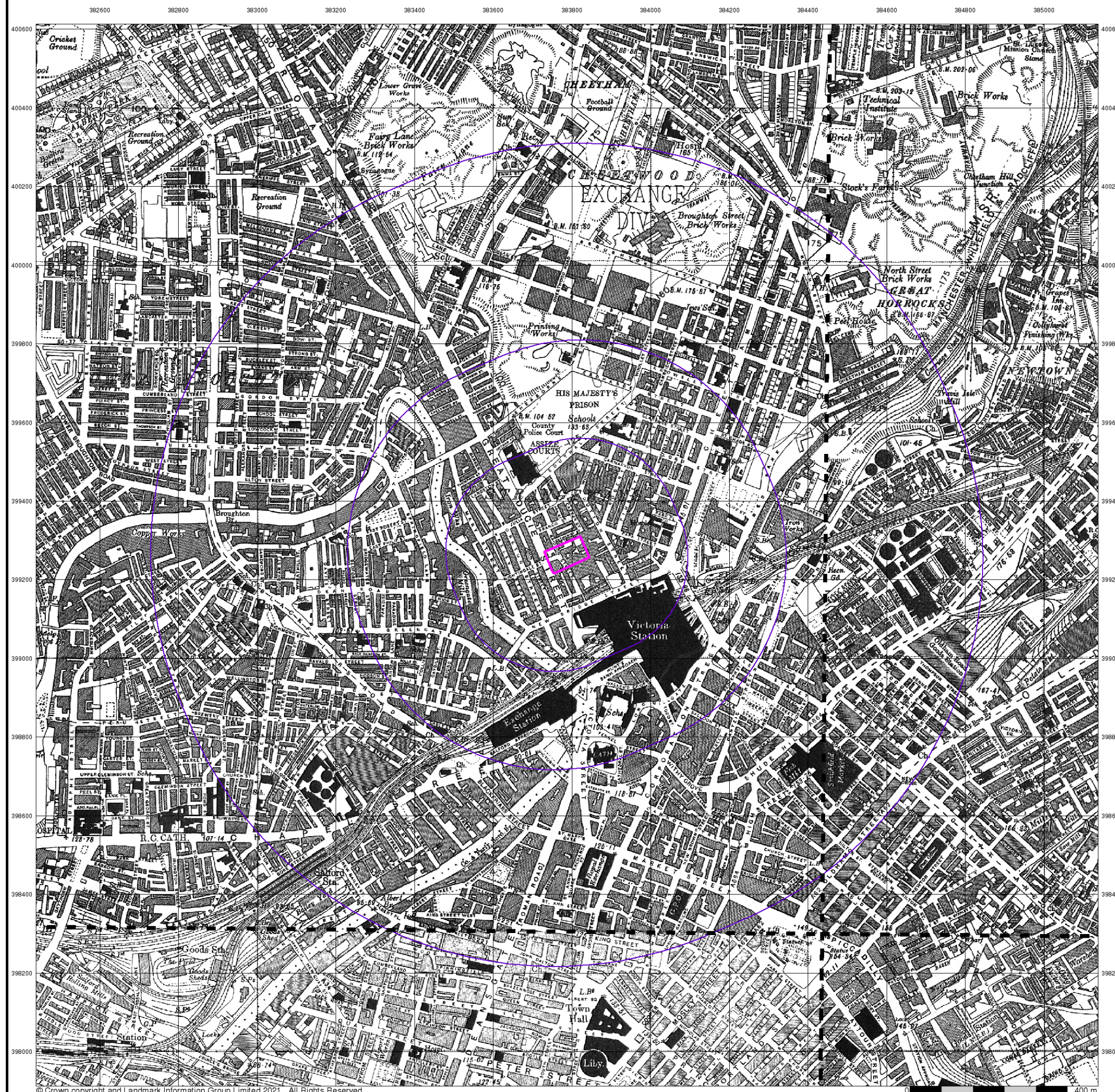
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1956

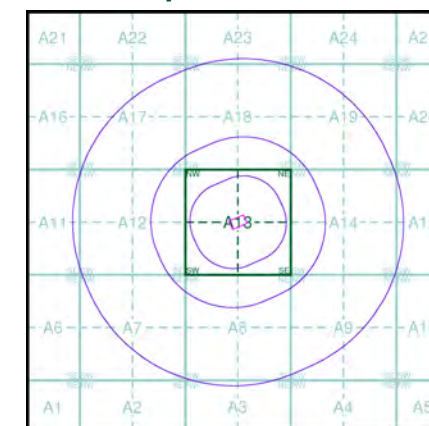
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD80SW	SD80SE
1956	1956
1:10,560	1:10,560
SJ89NW	SJ89NE
1956	1956
1:10,560	1:10,560

Historical Map - Slice A



Order Details

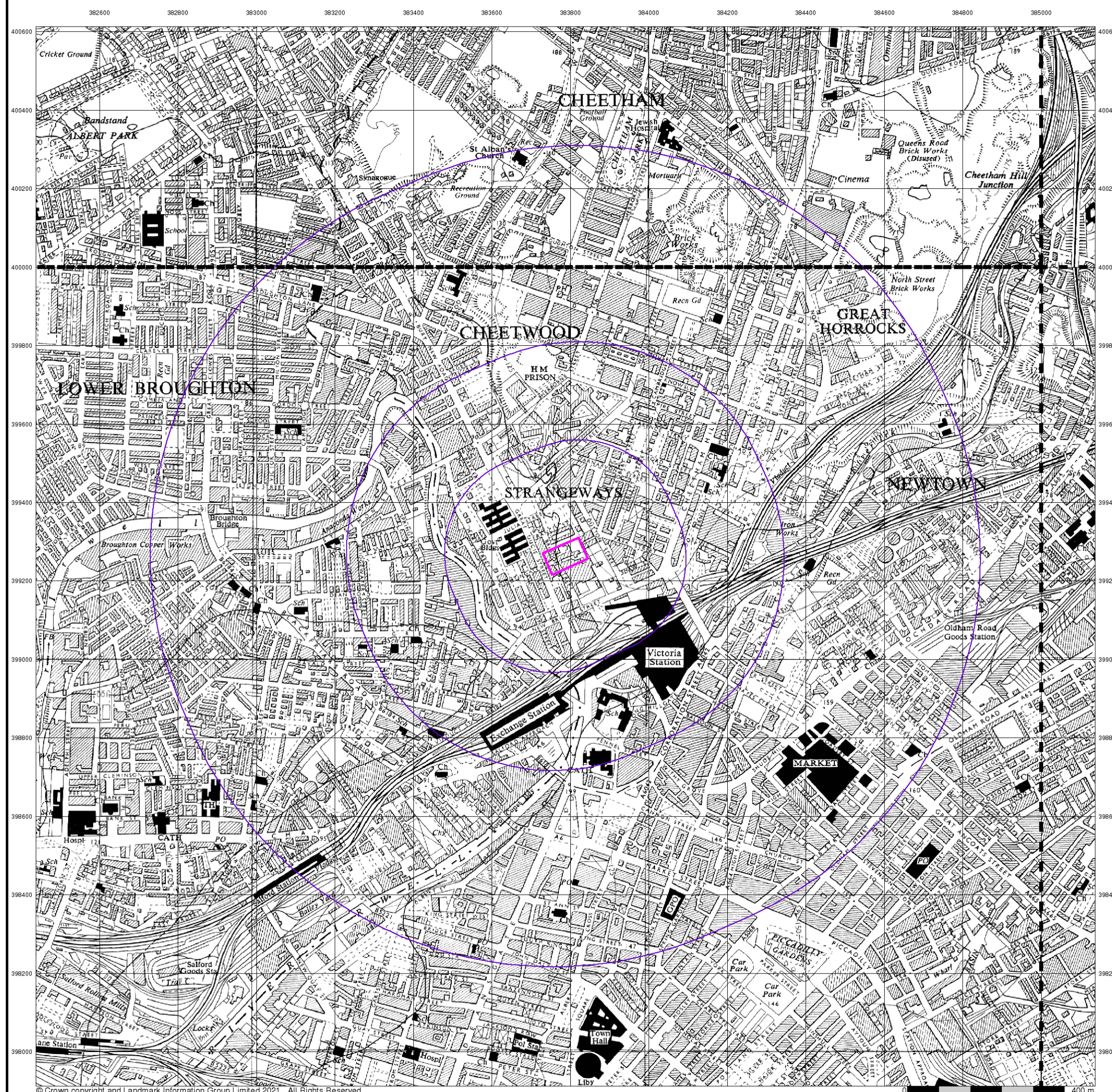
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1966 - 1968

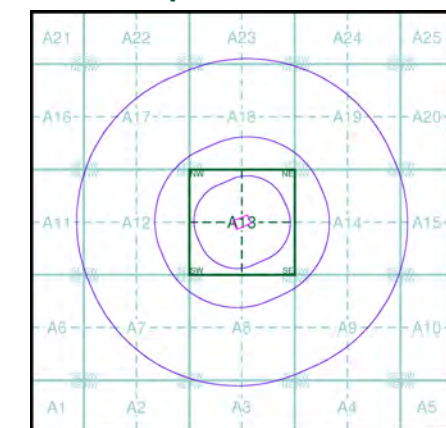
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD80SW	SD80SE
1968	1966
1:10,560	1:10,560
	SJ89NE
	1968
	1:10,560

Historical Map - Slice A



Order Details

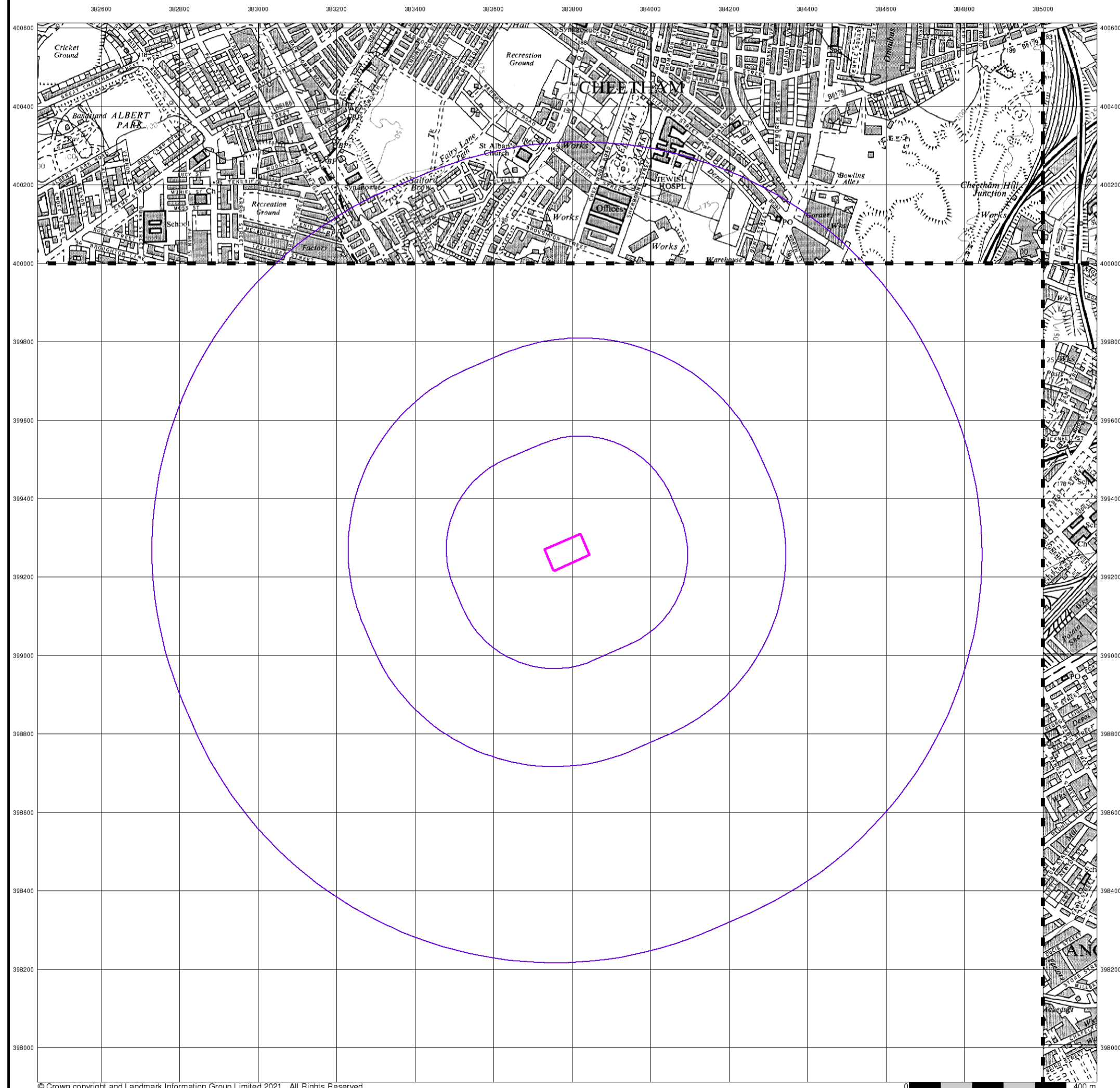
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

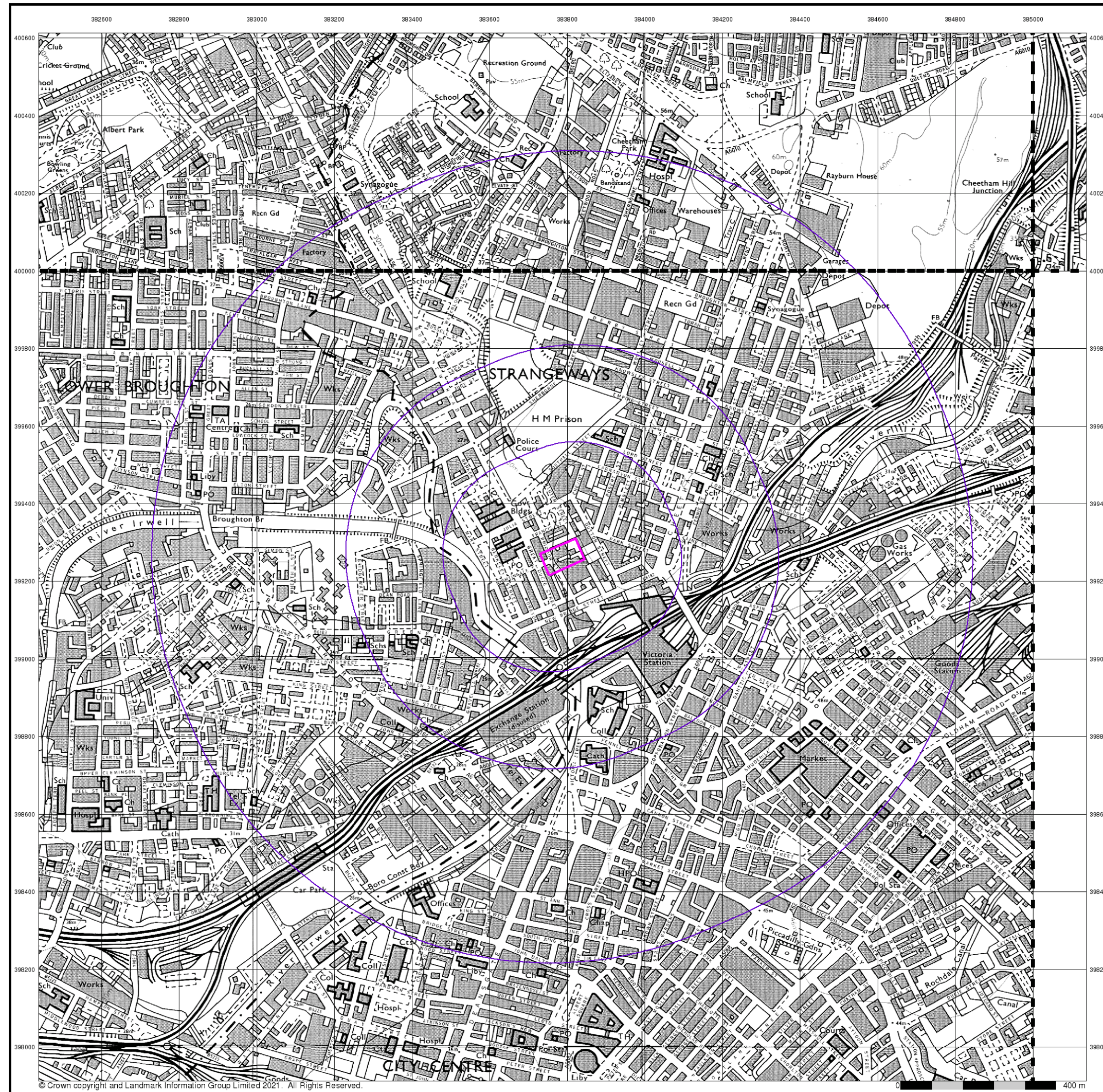
Site Details

Great Ducie Street, MANCHESTER



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Ordnance Survey Plan

Published 1972 - 1979

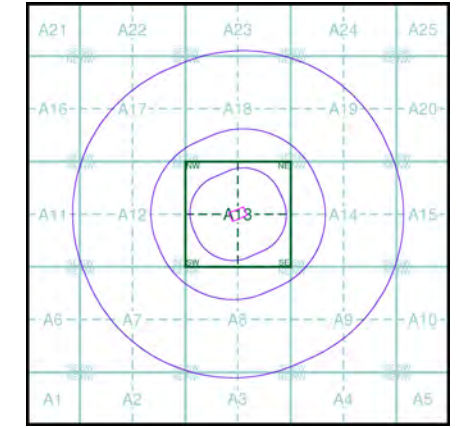
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD80SW	SD80SE
1979	1978
1:10,000	1:10,000
SJ89NW	
1972	
1:10,000	

Historical Map - Slice A



Order Details

Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

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Manchester

Published 1975

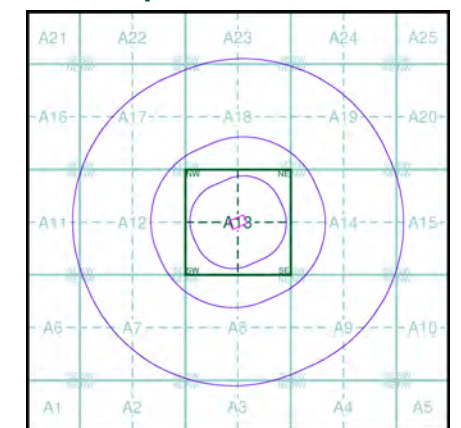
Source map scale - 1:25,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

SD80	1975	1:25,000
SJ89	1975	1:25,000

Russian Map - Slice A



Order Details

Order Number:	286062703_1_1
Customer Ref:	15175
National Grid Reference:	383790, 399260
Slice:	A
Site Area (Ha):	0.59
Search Buffer (m):	1000

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Ordnance Survey Plan

Published 1980 - 1986

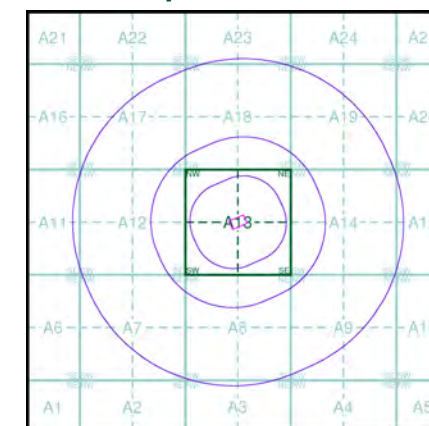
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD80SW	SD80SE
1986	1982
1:10,000	1:10,000
SJ89NW	SJ89NE
1980	1981
1:10,000	1:10,000

Historical Map - Slice A



Order Details

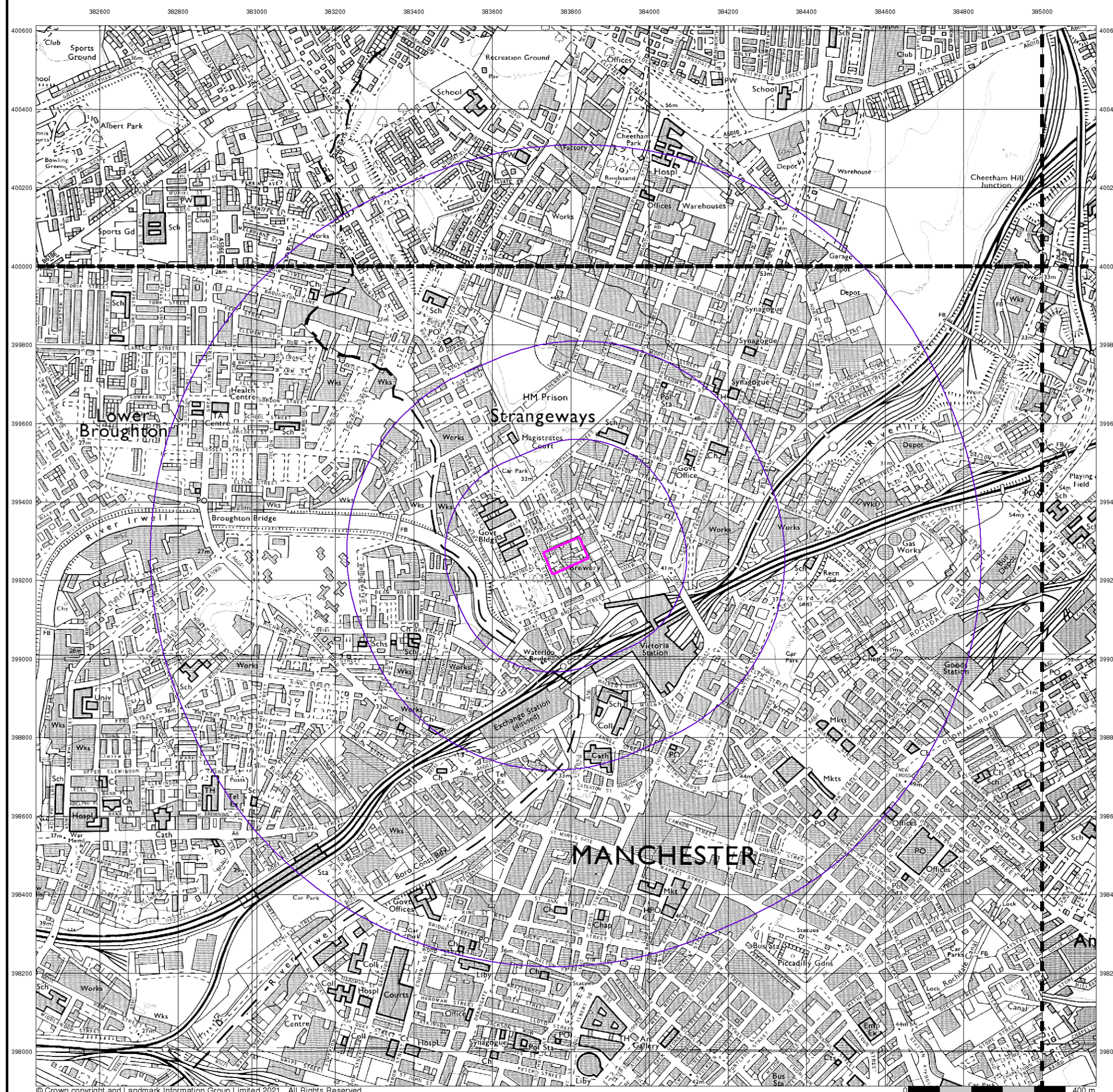
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

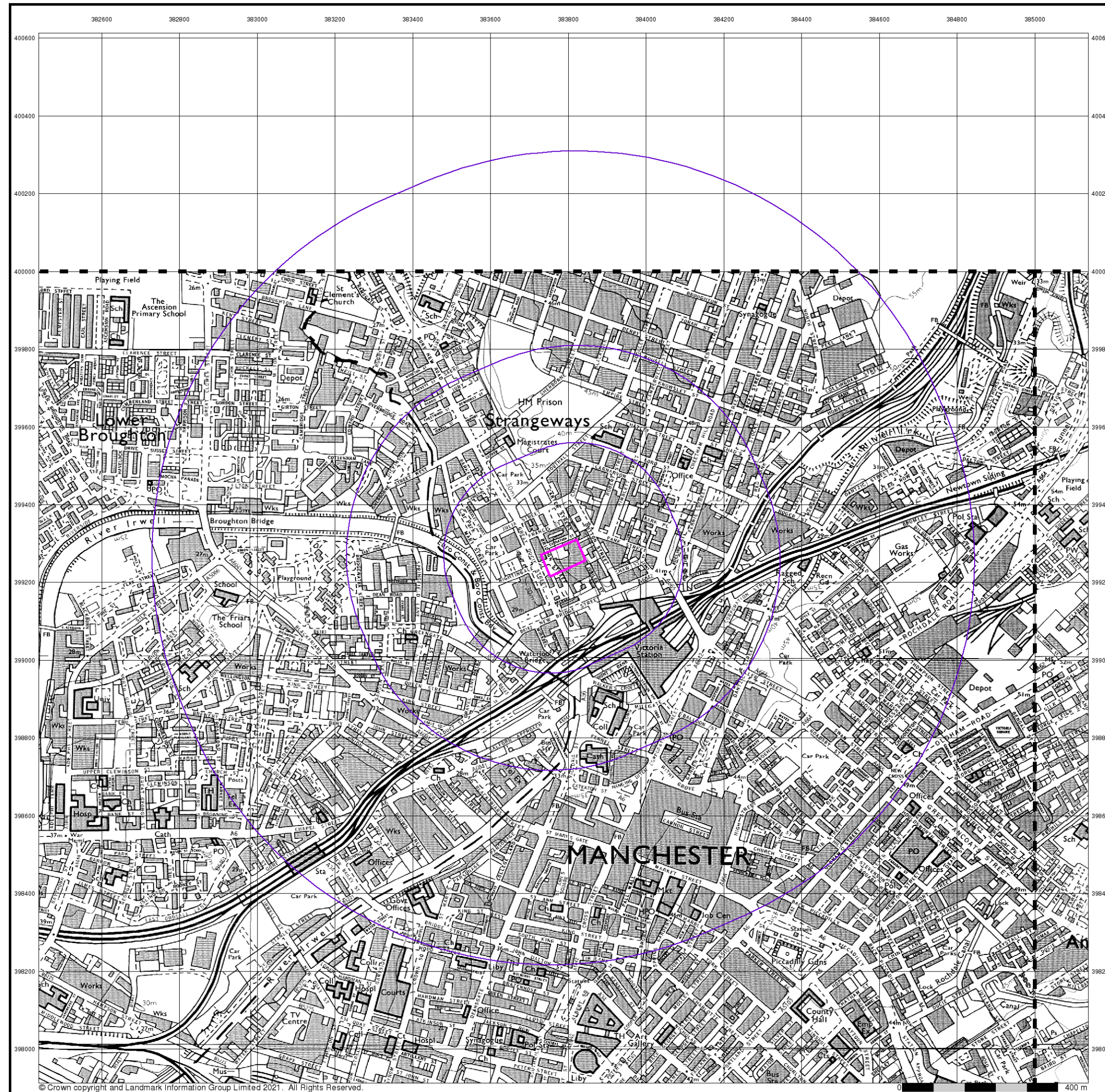
Site Details

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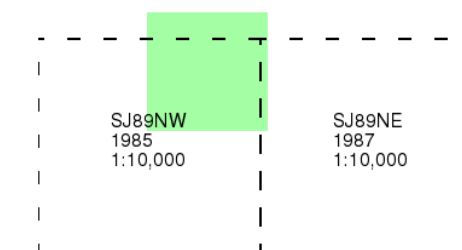
Ordnance Survey Plan

Published 1985 - 1987

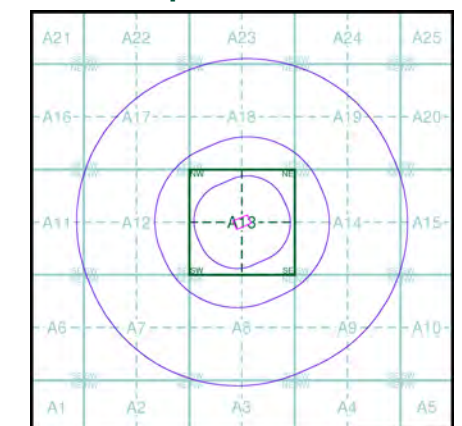
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

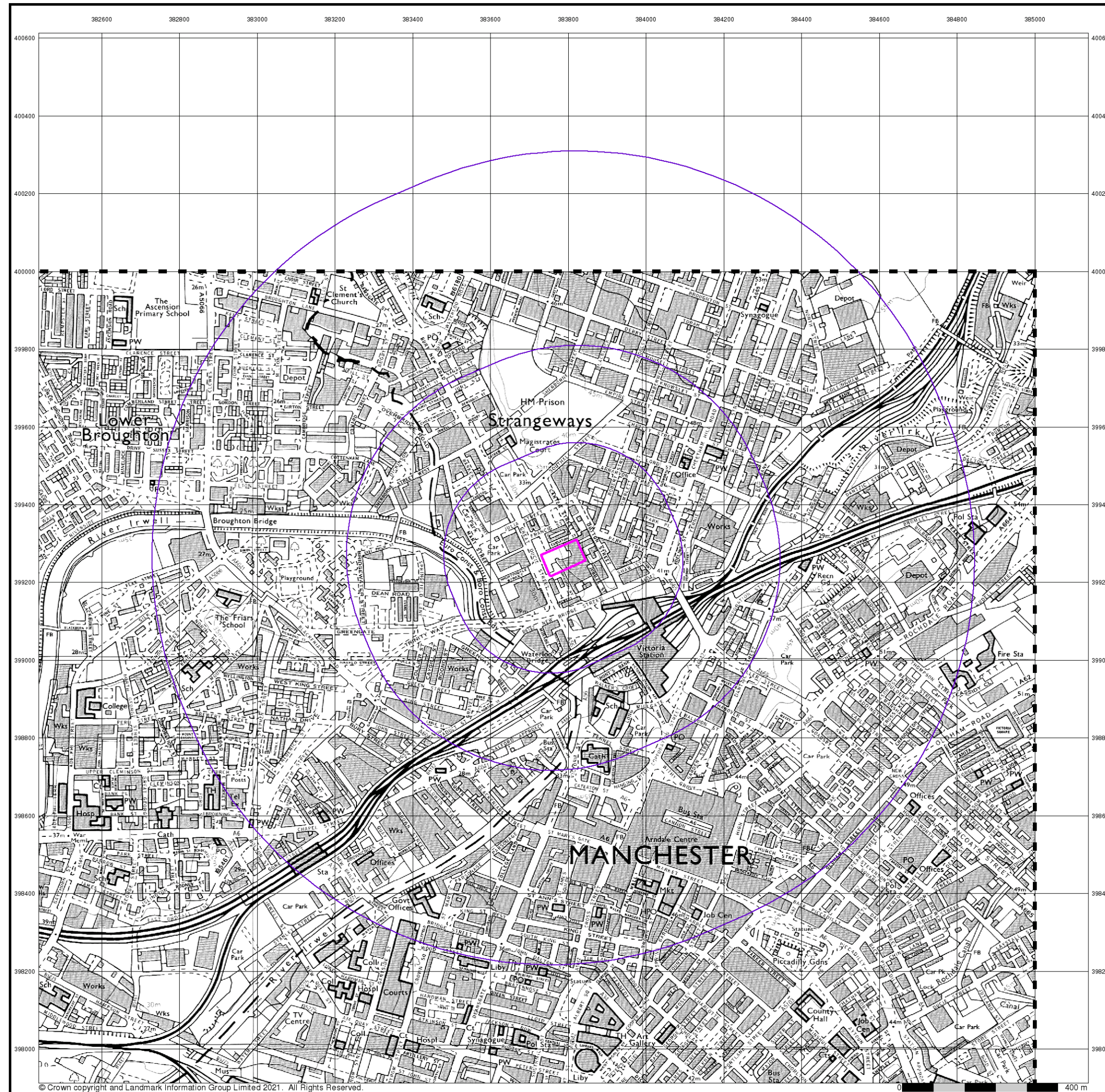
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

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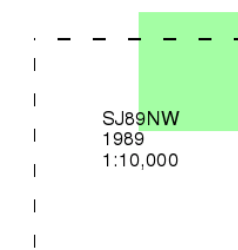
Ordnance Survey Plan

Published 1989

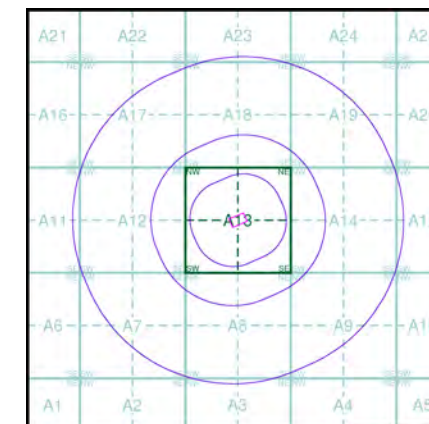
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

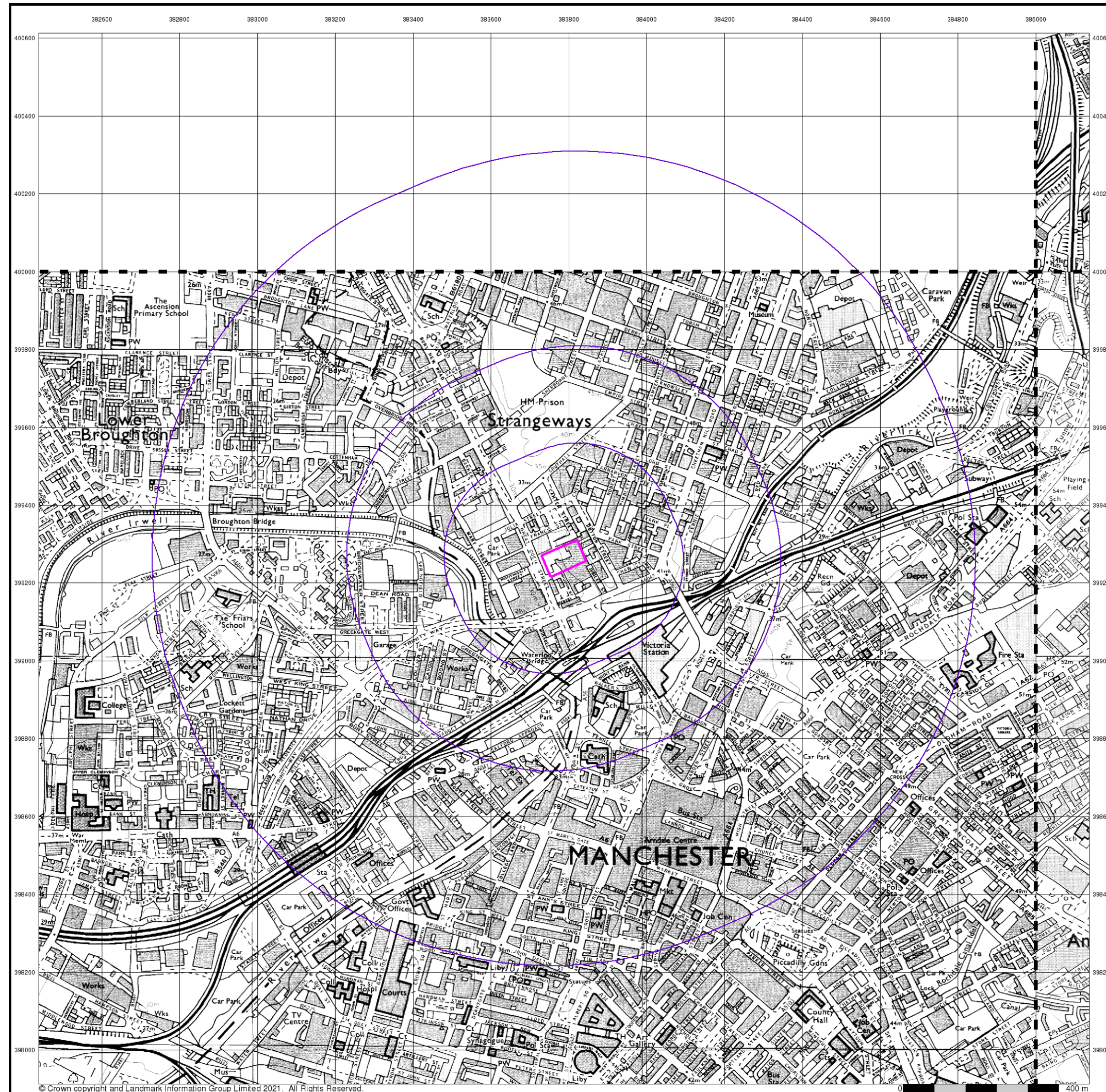
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1990 - 1994

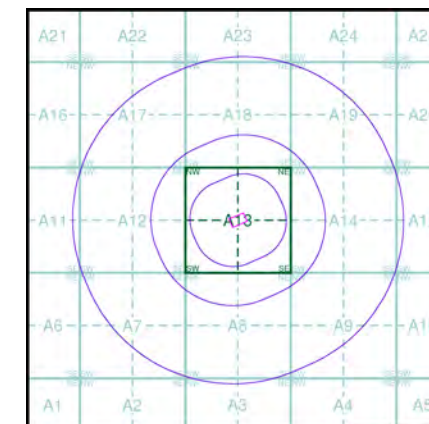
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SD80SE	1990	1:10,000
SJ89NW	1994	1:10,000
SJ89NE	1993	1:10,000

Historical Map - Slice A



Order Details

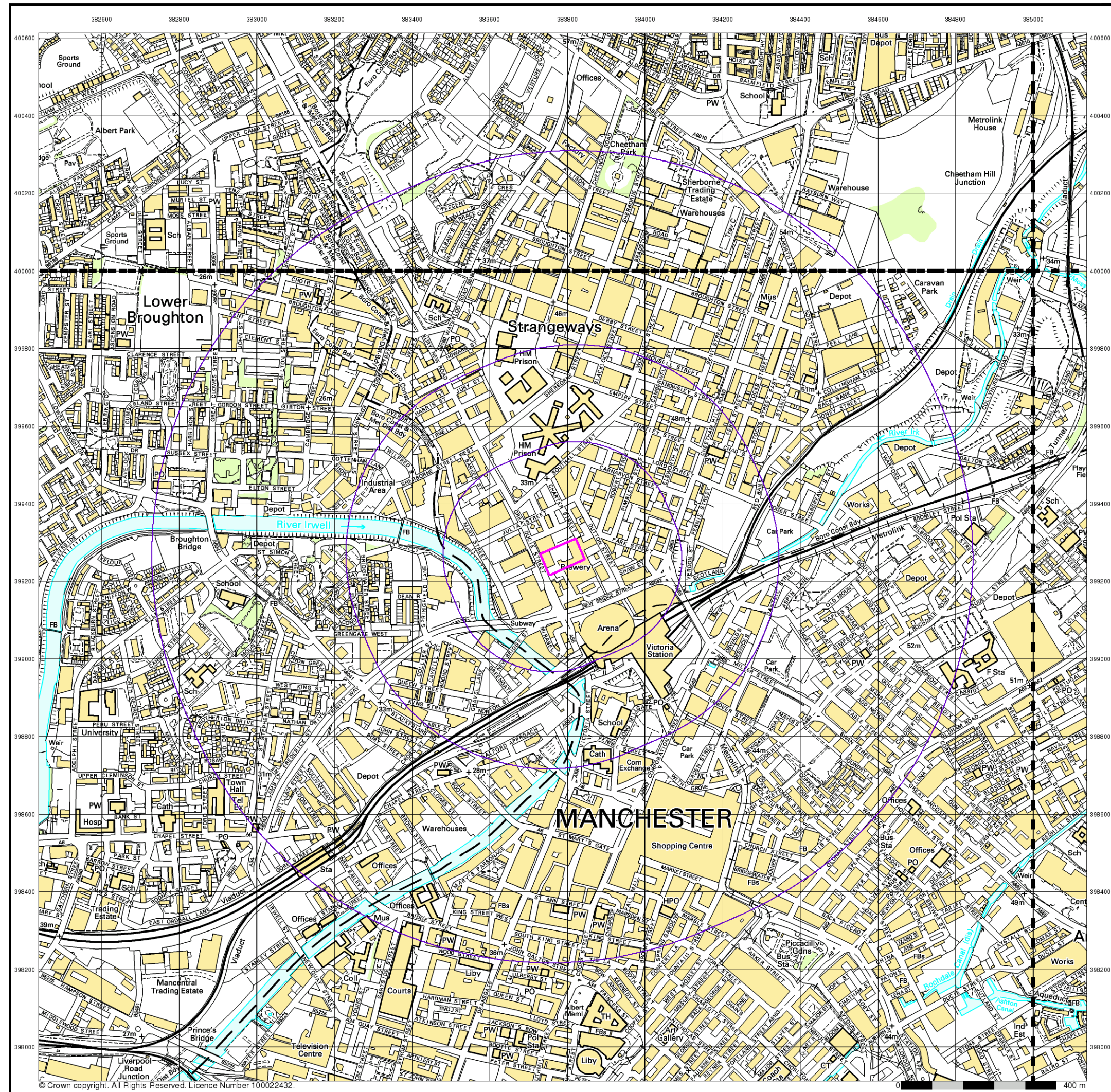
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

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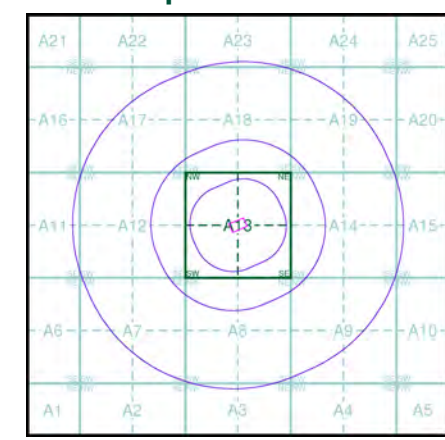
10k Raster Mapping
Published 1999
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

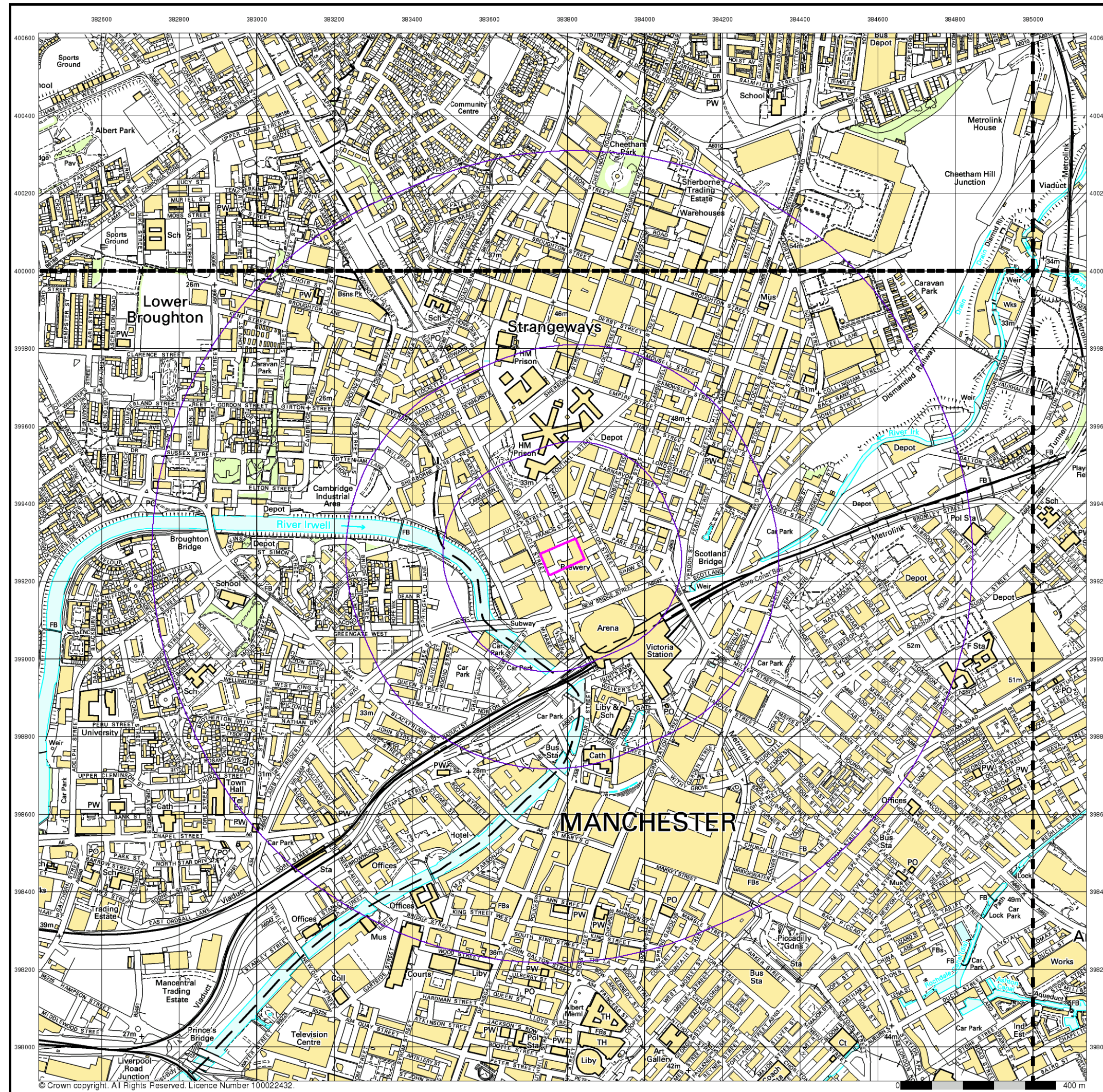
SD80SW	SD80SE
1999	1999
1:10,000	1:10,000
SJ89NW	SJ89NE
1999	1999
1:10,000	1:10,000

Historical Map - Slice A



Order Details
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details
Great Ducie Street, MANCHESTER



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10k Raster Mapping

Published 2006

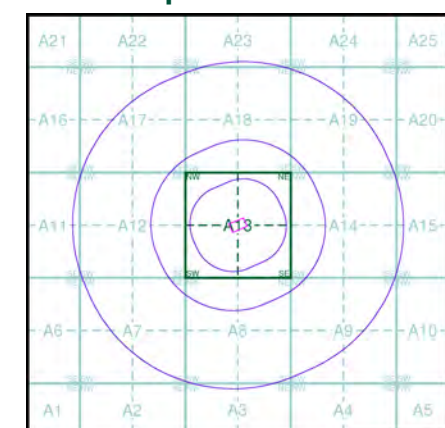
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SD80SW	SD80SE
2006	2006
1:10,000	1:10,000
SJ89NW	SJ89NE
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

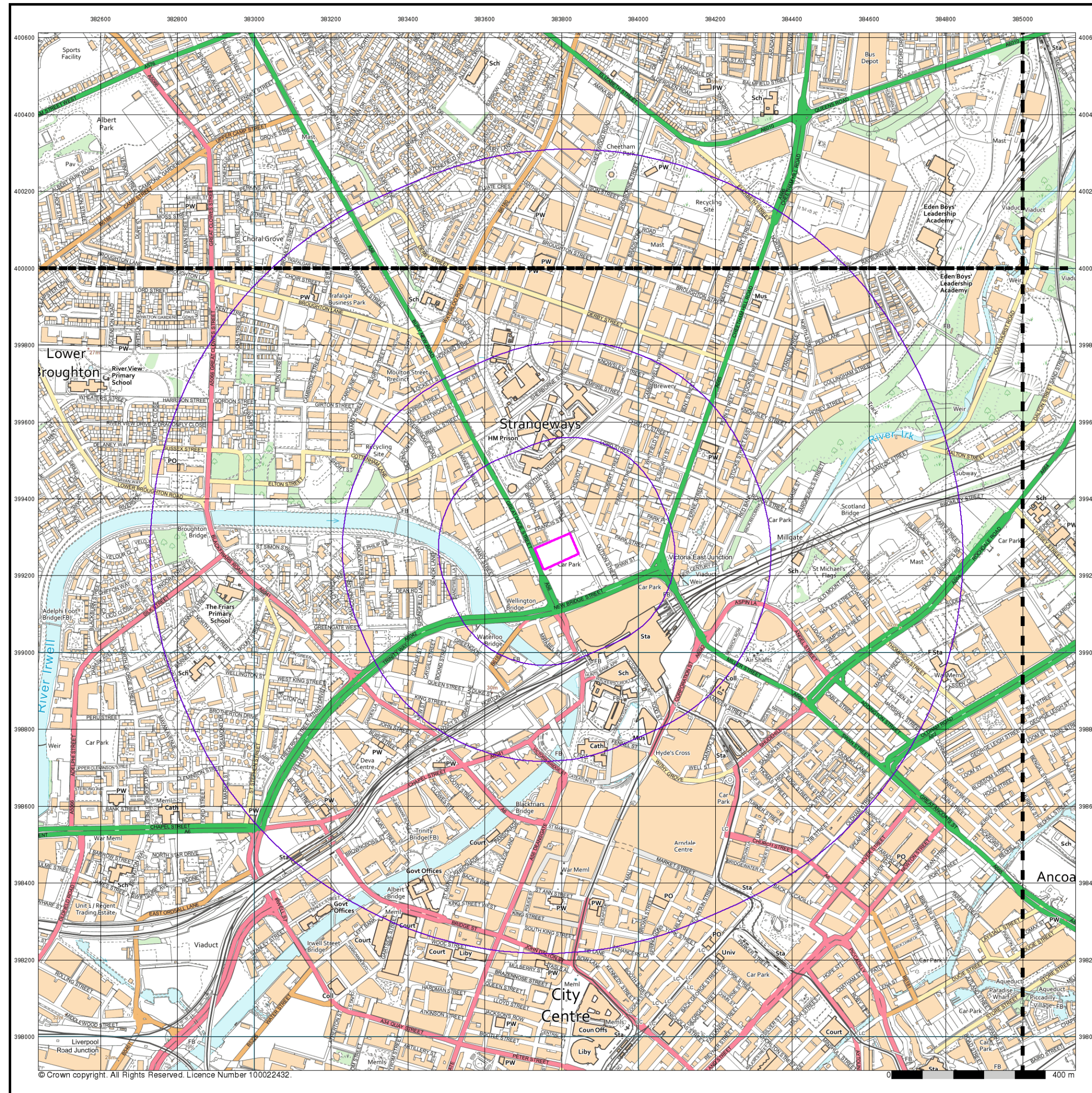
Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

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VectorMap Local

Published 2021

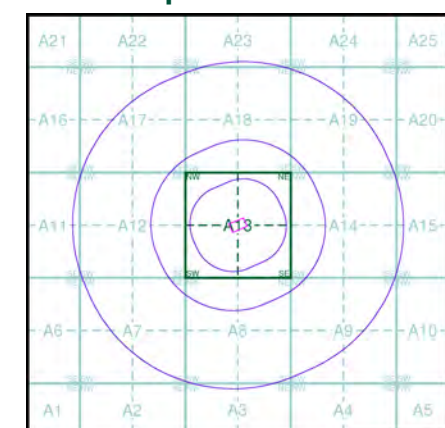
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SD80SW	SD80SE
2021	2021
Variable	Variable
SJ89NW	SJ89NE
2021	2021
Variable	Variable

Historical Map - Slice A



Order Details

Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

Great Ducie Street, MANCHESTER



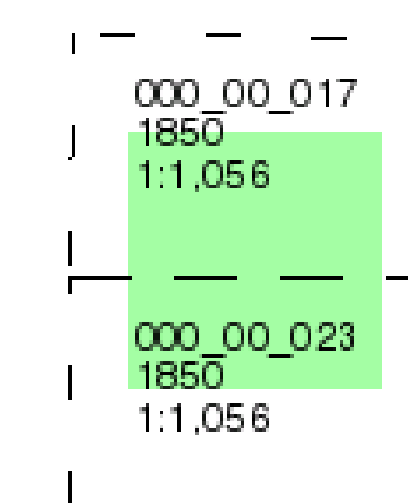
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



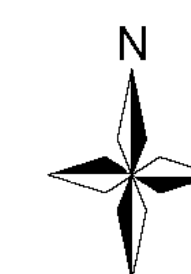
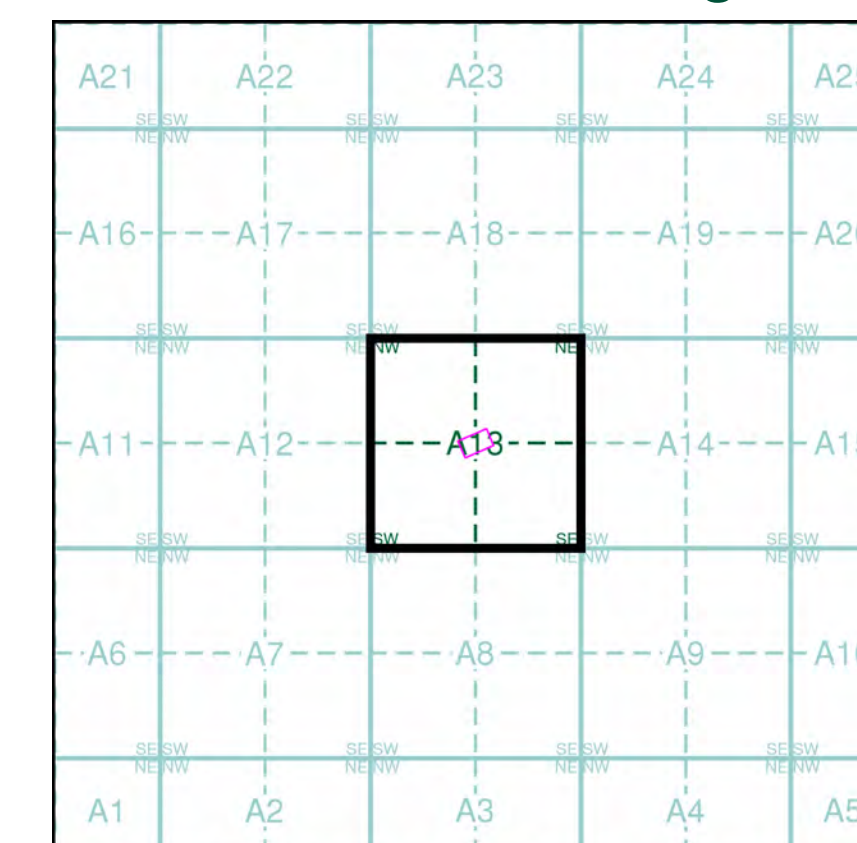
The 1:1056 scale of Ordnance Survey mapping was adopted from Ireland in 1848 and was used to survey towns with a population of over 4000, plus county towns of lesser population, in those counties mapped at the six-inch scale in 1841-55. The scale was the largest scale at which London was mapped by the Ordnance Survey and a 'skeleton' survey of the capital, showing little more than streets, street names, frontages and altitudes, was undertaken between 1848 and 1850. The majority of the 1:1056 surveys were later replaced by 1:500 surveys; although almost all the remainder were revised at this scale, sometimes more than once before 1895. The type of detail shown on the 1:1056 scale is broadly similar to that on 1:500; the apparent omission of minor details such as sewer access points and street lights may be as much a reflection of the generally earlier date of these plans, as of the specification of the map.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)



Historical Town Plan - Segment A13



Order Details

Order Number:	286062703_1_1
Customer Ref:	15175
National Grid Reference:	383790, 399260
Slice:	A
Site Area (Ha):	0.59
Search Buffer (m):	0

Site Details

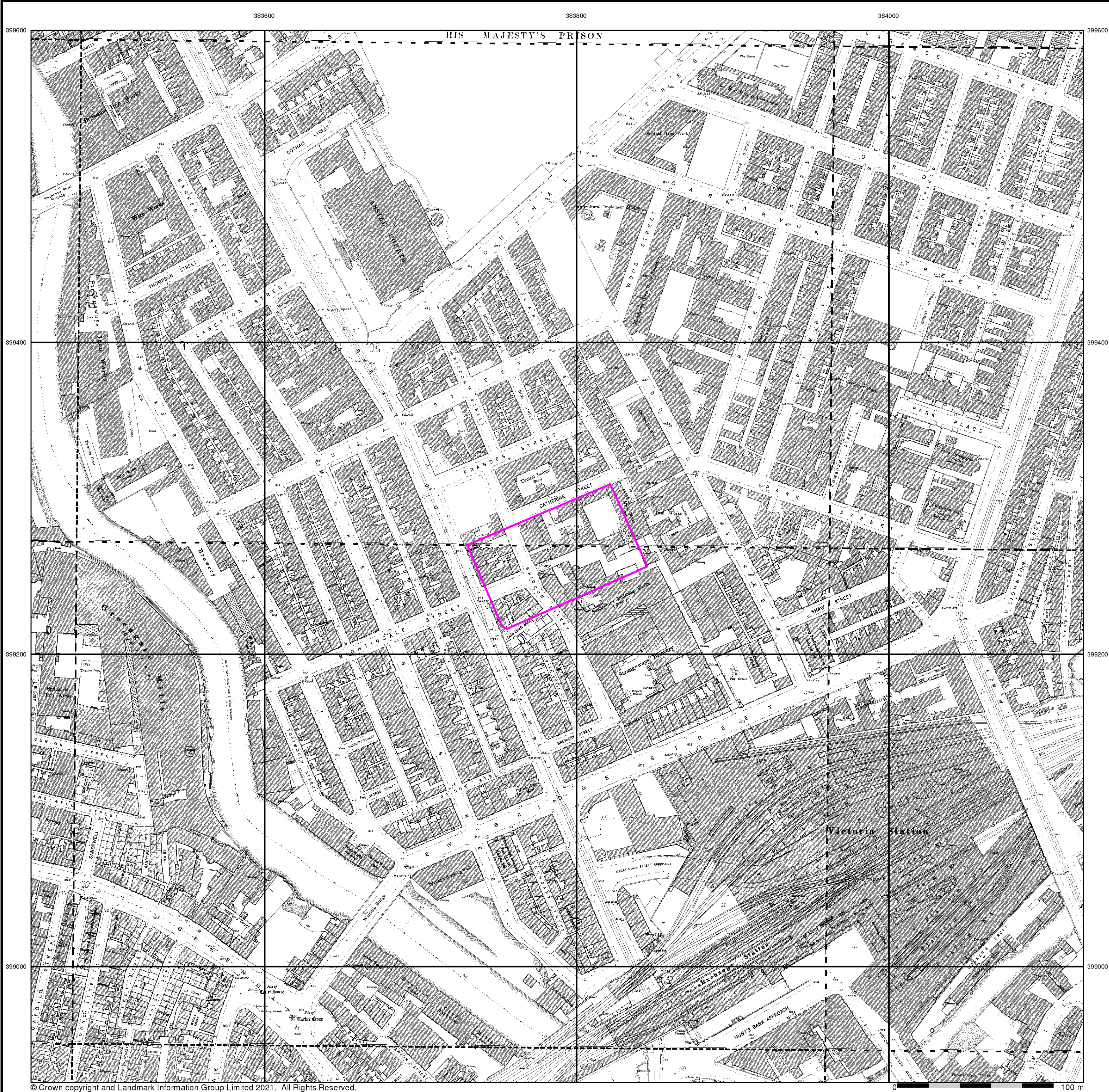
Great Ducie Street, MANCHESTER

This is a detailed historical map of Manchester, England, showing the city's layout in 1847. The map is divided into a grid of squares, each labeled with a letter and a number. The River Manchester flows through the center, and the River Irk flows along the bottom. The city is built on a hillside, with the highest point labeled 'Brick Field'. The map shows numerous streets, including 'Lancaster Street', 'Green Gate Street', 'Victoria Street', and 'Market Street'. It also depicts various industrial and commercial buildings, such as 'Green Gate Mills', 'Manchester Union Workhouse', and 'Victoria Station'. A pink rectangle highlights a specific area in the center of the city, near the River Manchester. The map is a black and white reproduction of an original color map.

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Lancashire And Furness

Published 1890 - 1891

Source map scale - 1:500

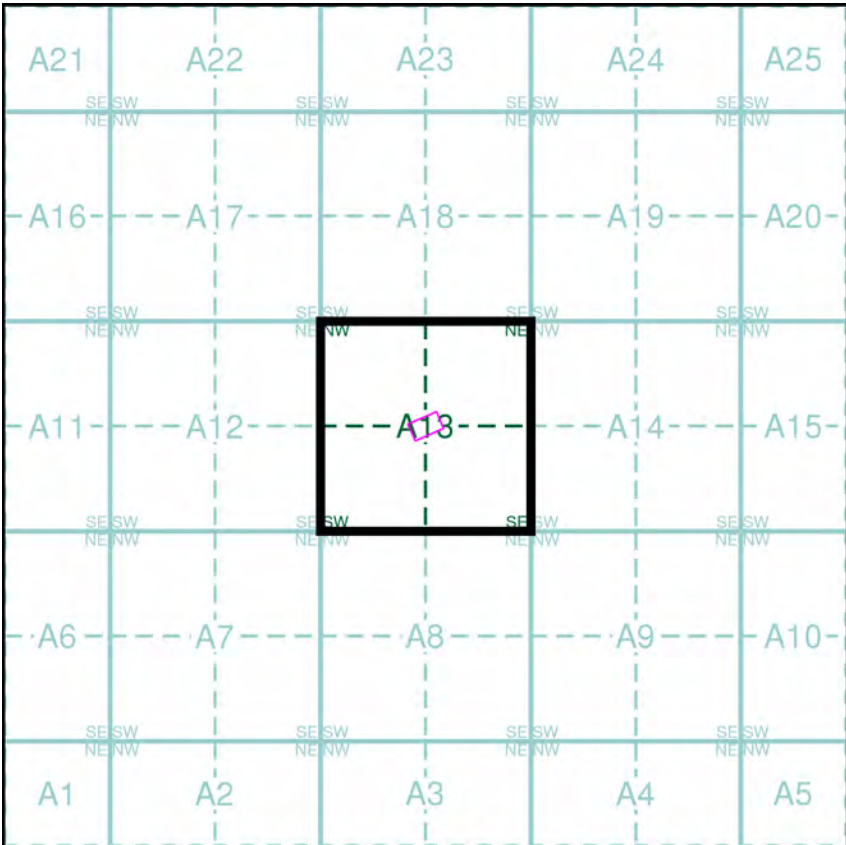
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to complement the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)

104_06_00104_06_00104_06_001	1891	1890	1891
1:500	1:500	1:500	
04_08_0004_08_0004_08_010	1891	1891	1891
1:500	1:500	1:500	
04_08_0104_08_0104_08_010	1891	1891	1891
1:500	1:500	1:500	
04_08_0104_08_0104_08_020	1891	1891	1891
1:500	1:500	1:500	

Historical Town Plan - Segment A13



Order Details

Order Number: 286062703_1_1
Customer Ref: 15175
National Grid Reference: 383790, 399260
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 0

Site Details

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CHAS. E. GOAD, LTD.
CIVIL ENGINEERS

EXPLANATION OF SIGNS USED ON INSURANCE PLANS OF TOWNS & CITIES

56 CROUCH HILL
LONDON N.A.

ABBREVIATIONS

ASB.	ASBESTOS
CORR.	CORRUGATED IRON
D.I.D.	DOUBLE IRON DOORS
DRA.	DRAPERY
D.	DWELLING
ELECT.	ELECTRICIAN
(E.M.)	ELECTRIC MOTORS
(ENG.)	STEAM ENGINE
FURNE.	FURNITURE
GAR.	GARAGE
(G.E.)	GAS ENGINE
H.W.	HARDWARE
I.COLS.	IRON COLUMNS OR STEEL STANCHIONS
JWLY.	JEWELLERY
M.CL.	METAL CLAD
M.W.	MANCHESTER WAREHOUSE
m.l.	MATCH (OR WOOD) LINED
OIL	OIL & COLOR
(O.E.)	OIL ENGINE
P.H.	PUBLIC HOUSE
S.	SHOP
S.I.D.	SINGLE IRON DOORS
S.I.S.	SINGLE IRON SHUTTERS
TAL.	TAILORS
TENS.	TENEMENTS
W.G.	WIRED GLASS
W.N.	WIRE NETTING OVER GLASS.

COLORS

	BRICK, STONE, OR CONCRETE
	WOOD
	AREAS CLEARED DUE TO ENEMY ACTION
	SKYLIGHTS ON 1 & 2 STORY BUILDINGS
	SKYLIGHTS ON HIGHER BUILDINGS
	METAL BUILDINGS.
	TIMBER PILED OR STACKED

WALLS

	PARTY WALL 2 STORIES OR OVER, A PROBABLE FIRE CUT OFF
	ENTIRE WALL, BUT DOUBTFUL AS FIRE CUT OFF
	DEFECTIVE WALL - IMPERFECT
	WALL ABOVE, IRON COLS. UNDER
	WALL SOME FLOORS ONLY (OR WOOD OR PLASTER PARTITION)
	ABOVE ROOF 6 TO 1'-6"
	— D9 — 1'-6" TO 2'-6"
	MATCH OR WOOD LINED
	WOOD CLAD WITH CORRUGATED IRON

OPENINGS

	PASSAGE UNDER
	ON ALL FLOORS
	SOME FLOORS ONLY
	ALL FLOORS (PROTECTED)
	ALL FLOORS (SOME PROTECTED)
	SOME FLOORS ONLY (PROTECTED)
	ALL FLOORS (SOME PROTECTED)
	ALL FLOORS (PROTECTED)
	SOME FLOORS ONLY (PROTECTED)
	WOOD LOADING DOOR
	IRON LOADING DOOR

WINDOWS

	ON ALL OR MOST FLOORS
	MORE THAN USUAL
	OVERLOOKING
	NEARLY ALL GLASS
	OPENINGS THRO' & WINDOWS OVER
	ON SOME FLOORS ONLY
	PROTECTED BY WIRED GLASS
	PROTECTED BY SINGLE IRON SHUTTERS
	PROTECTED BY DOUBLE IRON SHUTTERS.
	WINDOWS IN FRONT & REAR OF BUILDINGS UNDERSTOOD
	UNLESS OTHERWISE SHOWN

FLOORS

1, 2, 3, 3½, 3¾ ON BUILDINGS ARE NUMBER OF STORIES ABOVE GROUND
(3½ = 3 FLOORS & ATTIC)
2 & 2B MEANS 2 STORIES & 2 BASEMENTS EAST & SUB-BASEMENT.

SKYLIGHTS

A	LESS THAN 50 SQUARE FEET (SAY 10'x5', OR 7'x7')
A	OPENINGS THROUGH 2 FLOORS UNDER (EACH STROKE DENOTES AN OPENING.)
	WITH WELL HOLE THROUGH 3 FLOORS.
	LANTERN LIGHT, SIDES ONLY GLASS.
	OR VENT OR RAISED VENTILATOR

HOISTS & LIFTS

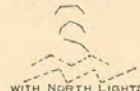
	OPEN
	OPEN TO STREET
	OPEN (WOOD PLASTER)
	ENCLOSED BRICK OR FIRE RESISTING WIRED GLASS DOORS
	ENCLOSED WOOD OR PLASTER

IRON DOORS SHOWN AS EXPLAINED UNDER "OPENINGS"

ROOFS

ASB	ASBESTOS
C	CONCRETE
CORR.	CORRUGATED IRON
T	METAL
P	PATENT (FELT &c)
O	SLATE
T	TILE

PROFILES



SUNDRIES

	STEAM BOILERS
	BOILER SET IN BRICK
	FACTORY CHIMNEYS
	STEAM ENGINE
	OVERHANGING WOOD CORNICE
	FIRE ALARM BOX
	— D9 — ON KEY PLAN
	HYDRANT
	HYDRAULIC HYDRANT
	PRIVATE HYDRANT OR STAND PIPE
	DOUBLE HYDRANT
	SALT WATER HYDRANT
	SPRINKLER OR AUTO ALARM BELL

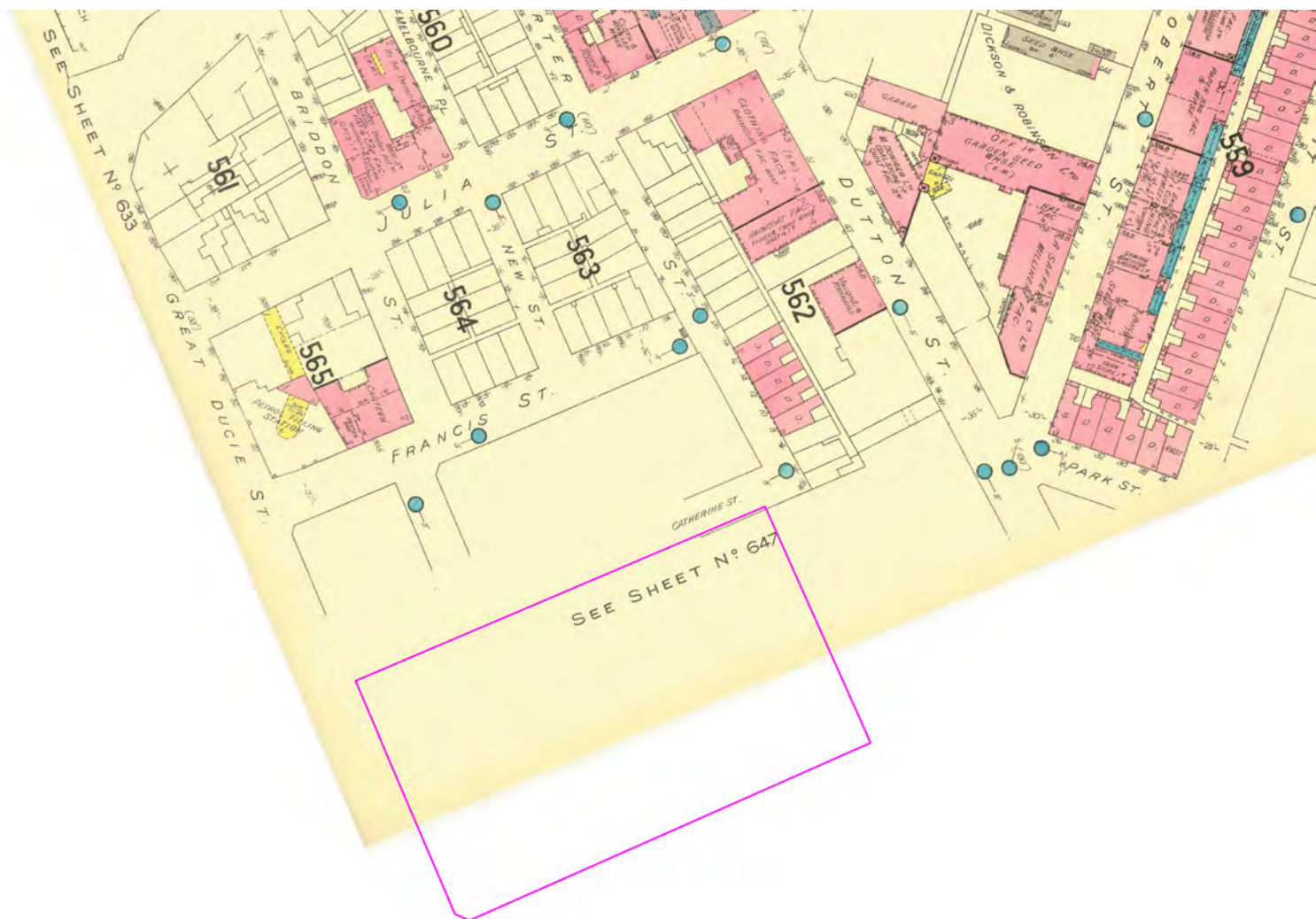
REFERENCE NUMBERS

	NUMBERS PARALLEL WITH STREET ARE EXISTING STREET N ^{OS}
	WHERE TWO SETS OF STREET N ^{OS} IN SAME BLOCK COINCIDE, ADDITIONAL ARBITRARY N ^{OS} ARE GIVEN TO ONE SET (500 & UPWARDS)
	WHERE BUILDINGS TO WHICH THEY APPLIED ARE DEMOLISHED, STREET & ARBITRARY N ^{OS} ARE SHOWN & CROSSED THROUGH ON REVISION
	ARE STREET WIDTHS.
	ARE HEIGHTS OF GROUND ABOVE ORDNANCE DATUM
	HEIGHT IN FEET OF ADJOINING BUILDINGS WHERE STORIES DIFFER IN HEIGHT
	SIZES OF WATER MAINS SUPPLYING HYDRANTS









MEDIA INFORMATION

COLLECTION NAME:

Maps Collection

Record ▼

Image Number:

1772 Tinker

Reference Number:

GB127.Local Studies Street Map
Collection/1772 Tinker

Parent Work Title:

A Plan of Manchester and Salford in the
County Palatine of Lancaster

Creator:

Fothergill, J.

Creator Role:

Engraver

Creator:

Tinker, T.

Creator Role:

Publisher

Date Created:

1772

Description:

Plan of Manchester and Salford.
Illustrations: Christ's Church, The
Exchange and St Ann's Church. On the
left hand side there is a reference key to
the map.

Language Code:

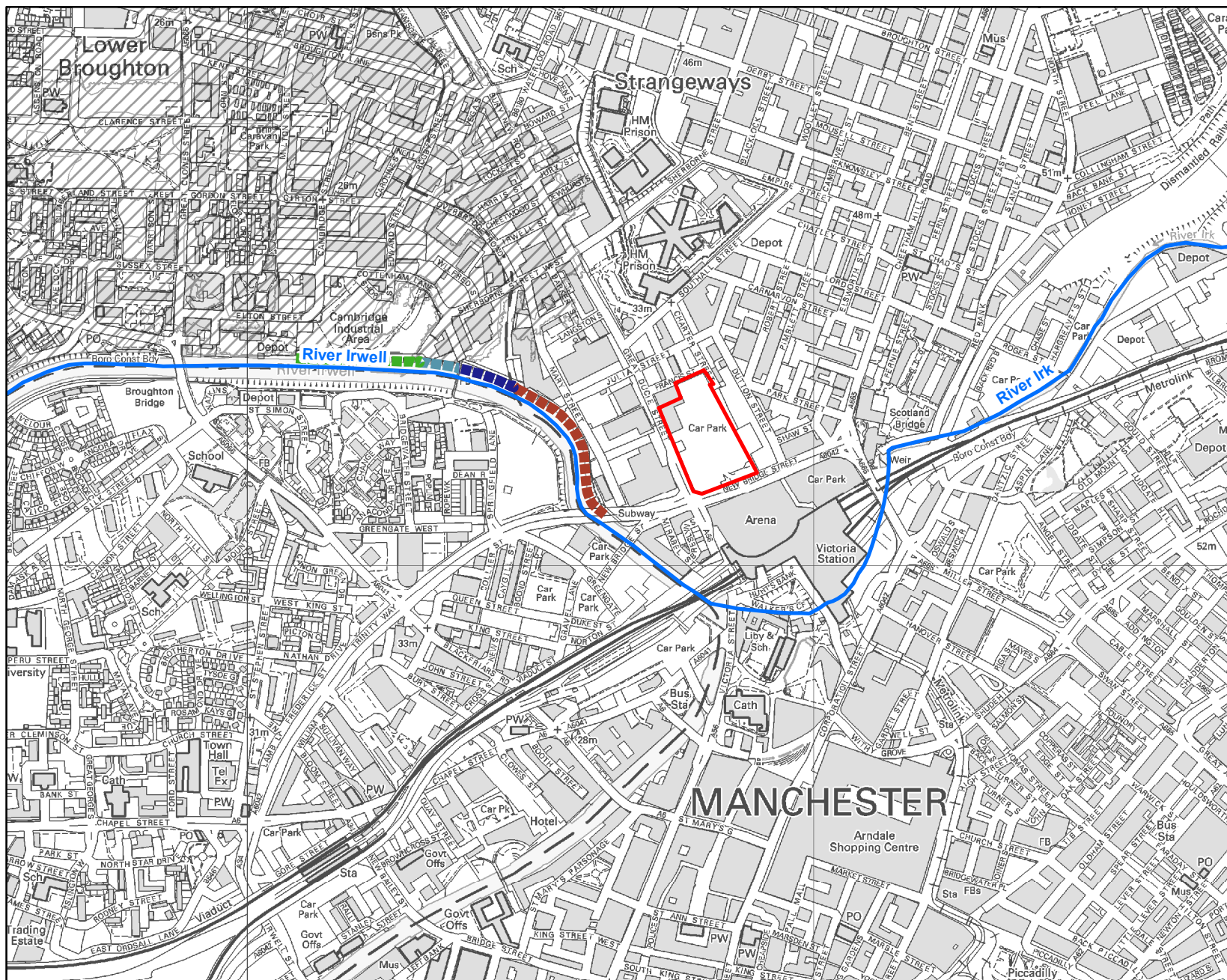
eng-GB



1772 MAP

APPENDIX D

Flood Defence Map centred on Great Ducie St, Cheetham Hill, Manchester M3 1PT. Created on 13/07/2021 [GMMC224504AB]



1:10,001



Legend

Site Location

Main River

Defences

ASSET_ID

88831

88893

181081

452758

				Defended														Undefended													
Map Reference	Model Node Reference	Easting	Northing	Data	20 % AEP (1 in 5 year)	10 % AEP (1 in 10 year)	4 % AEP (1 in 25 year)	2 % AEP (1 in 50 year)	1.33 % AEP (1 in 75 year)	1 % AEP (1 in 100 year)	1 % AEP (1 in 100 year) + 30% increase in flows	1 % AEP (1 in 100 year) + 35% increase in flows	1 % AEP (1 in 100 year) + 70% increase in flows	0.5 % AEP (1 in 200 year)	0.1 % AEP (1 in 1000 year)	20 % AEP (1 in 5 year)	10 % AEP (1 in 10 year)	4 % AEP (1 in 25 year)	2 % AEP (1 in 50 year)	1.33 % AEP (1 in 75 year)	1 % AEP (1 in 100 year)	1 % AEP (1 in 100 year) + 30% increase in flows	1 % AEP (1 in 100 year) + 35% increase in flows	1 % AEP (1 in 100 year) + 70% increase in flows	0.5 % AEP (1 in 200 year)	0.1 % AEP (1 in 1000 year)					
1	es013_0208_IRW13692	383422	399255	Modelled Water Level (m aodN)	25.54	25.92	26.26	26.48	26.61	26.68	27.52	27.69	29.53	26.98	30.24	25.32	25.64	26.18	26.48	26.61	26.83	28.18	28.44	29.95	27.35	30.60					
				Modelled Flow (cumecs)	318.42	356.75	387.29	406.85	417.61	425.33	516.71	518.61	509.23	472.52	474.40	294.54	333.01	388.01	416.70	433.33	457.32	508.89	506.19	480.96	498.71	466.21					
2	es013_0208_IRW13665	383485	399266	Modelled Water Level (m aodN)	25.52	25.90	26.24	26.47	26.59	26.66	27.50	27.66	29.52	26.96	30.24	25.30	25.62	26.15	26.46	26.59	26.80	28.16	28.42	29.95	27.32	30.59					
				Modelled Flow (cumecs)	318.43	356.77	387.32	406.88	417.65	425.36	526.40	532.84	523.37	472.53	494.47	294.55	333.02	388.03	416.72	434.26	460.26	525.61	522.09	502.07	507.94	489.16					
3	es013_0208_IRW13571	383575	399205	Modelled Water Level (m aodN)	25.39	25.77	26.11	26.34	26.47	26.55	27.36	27.53	29.45	26.83	30.19	25.17	25.48	26.02	26.33	26.46	26.67	28.02	28.30	29.89	27.18	30.55					
				Modelled Flow (cumecs)	318.47	356.83	387.40	406.98	417.76	425.47	528.87	539.41	541.44	472.59	519.73	294.60	333.04	388.06	416.74	434.28	460.28	548.53	545.82	530.36	509.27	517.98					
4	es013_0208_IRW13363	383608	399068	Modelled Water Level (m aodN)	25.27	25.66	26.02	26.25	26.38	26.46	27.26	27.42	29.27	26.74	30.07	25.05	25.37	25.91	26.23	26.37	26.57	27.90	28.16	29.76	27.09	30.46					
				Modelled Flow (cumecs)	318.61	357.00	387.63	407.25	418.05	425.74	533.13	547.56	634.40	472.74	622.17	294.75	333.13	388.16	416.86	434.36	460.29	583.44	592.73	606.14	511.82	595.14					
5	es013_0208_IRW1_3304	383749	398955	Modelled Water Level (m aodN)	25.21	25.59	25.94	26.17	26.30	26.37	27.13	27.28	28.75	26.63	29.45	25.00	25.30	25.83	26.14	26.28	26.46	27.71	27.92	29.14	26.96	29.84					
				Modelled Flow (cumecs)	318.65	357.04	387.68	407.31	418.12	425.81	533.15	547.37	678.74	472.77	674.11	294.78	333.15	388.19	416.90	434.38	460.37	587.64	606.72	685.05	511.67	672.80					

Model data taken from Lower Inwell 2017 Study

AEP - Annual Exceedence Probability

m aodN - metres above ordnance datum Newlyn

cumecs - cubic metres per second

Notes:

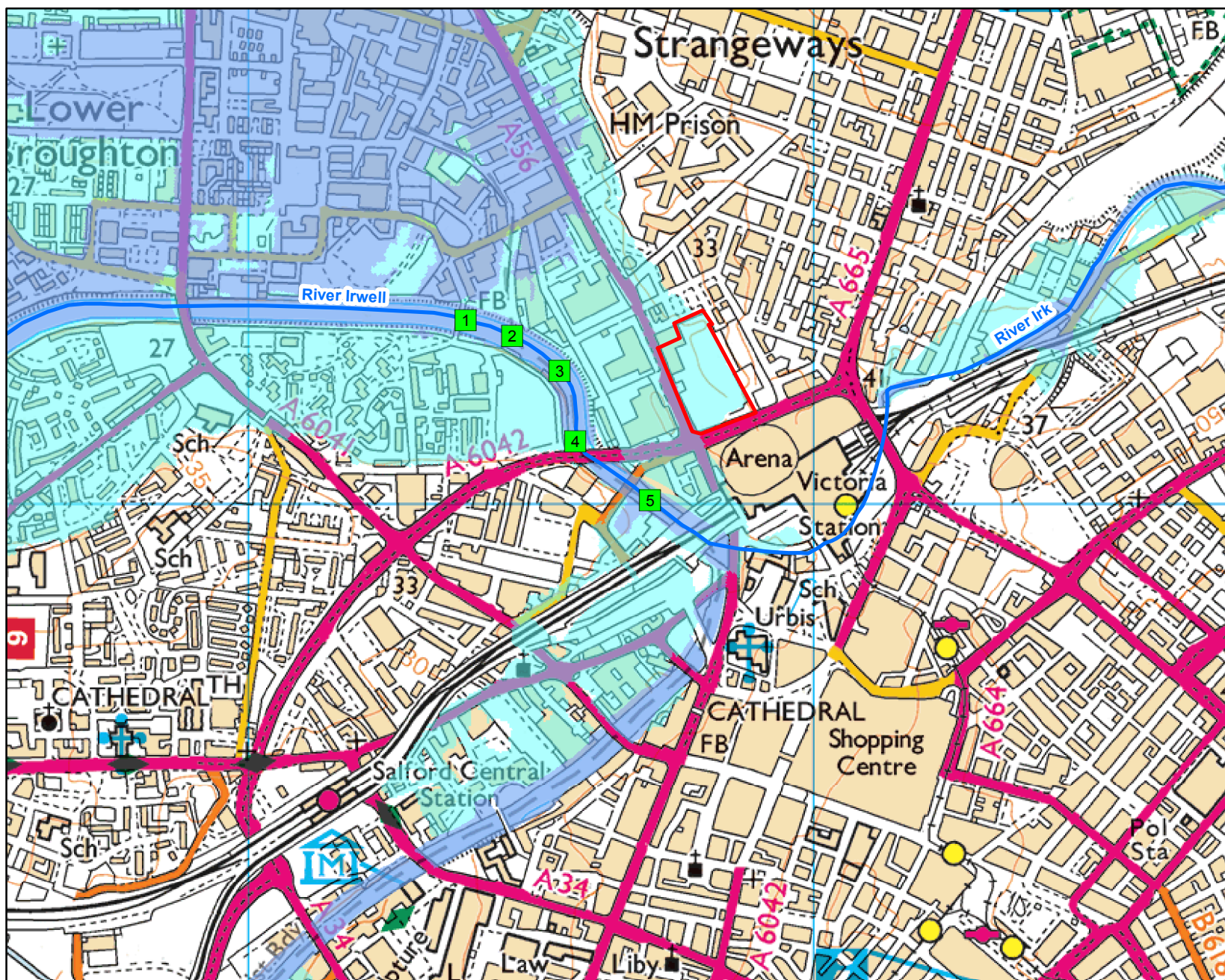
*Climate Change Scenario - 30%, 35% and 70% increases in flow calculated for the 2080's (2070 - 2115). Please see <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances> for more information regarding the new climate change guidance. The location of the site and the type (vulnerability) of development determine the climate change allowances to consider in any flood risk assessment.

Flood Defences

Start Date	Asset Type	Asset ID	Standard of Protection	†Overall Condition Grade	Upstream Actual Crest Level (m aod)	Downstream Actual Crest Level (m aod)
14/12/2018	high Ground	88831	75	3	27.66	27.44
14/12/2018	high Ground	88893	75	2	27.44	27.20
14/12/2018	Wall	181081	75	3	27.10	27.07
14/12/2018	Embankment	452758	75	3	27.10	27.10

† Overall condition of the asset based on the (weighted) condition of each element of the latest inspection of the asset. See the attached document 'Visual Condition Grading of FCRM Assets' for interpretation of score given.

Detailed Flood Map centred on Great Ducie St, Cheetham Hill, Manchester M3 1PT.
Created on 13/07/2021 [GMMC224504AB]



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Legend

-  Site Location
-  Model Measurements
-  Main River
-  Flood Zone 3
-  Flood Zone 2

APPENDIX E

