

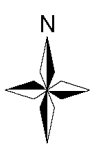
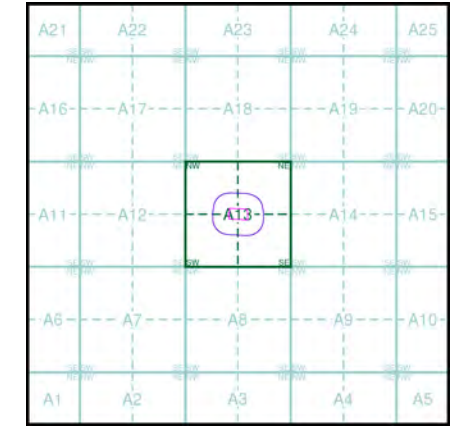
Ordnance Survey Plan
Published 1966 - 1968
Source map scale - 1:10,000

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)

SJ90SW	SJ90SE
1967	1966
1:10,560	1:10,560
SO99NW	SO99NE
1968	1968
1:10,560	1:10,560

Historical Map - Slice A



Order Details

Order Number: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search Buffer (m): 1000

Site Details

Proposed development, Satellite Ind. Park,
 WOLVERHAMPTON, WV11 3QG



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



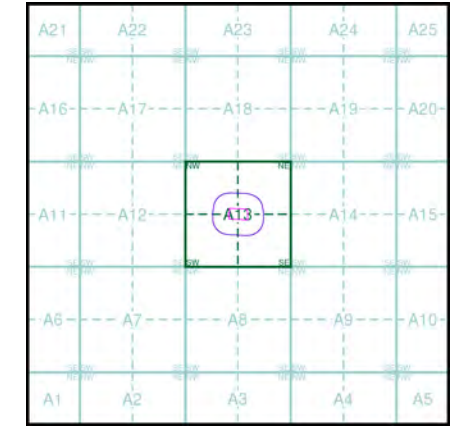
Ordnance Survey Plan
Published 1973 - 1974
Source map scale - 1:10,000

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)

SJ90SE	1973	1:10,000
SO99NW	1974	1:10,000
SO99NE	1974	1:10,000

Historical Map - Slice A



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Birmingham

Published 1977

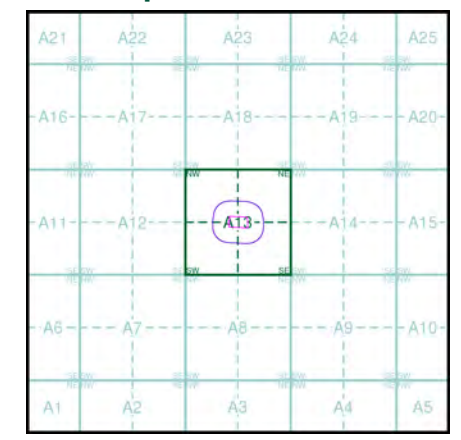
Source map scale - 1:25,000

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)

SJ90	1977	1:25,000
SO99	1977	1:25,000

Russian Map - Slice A



Order Details

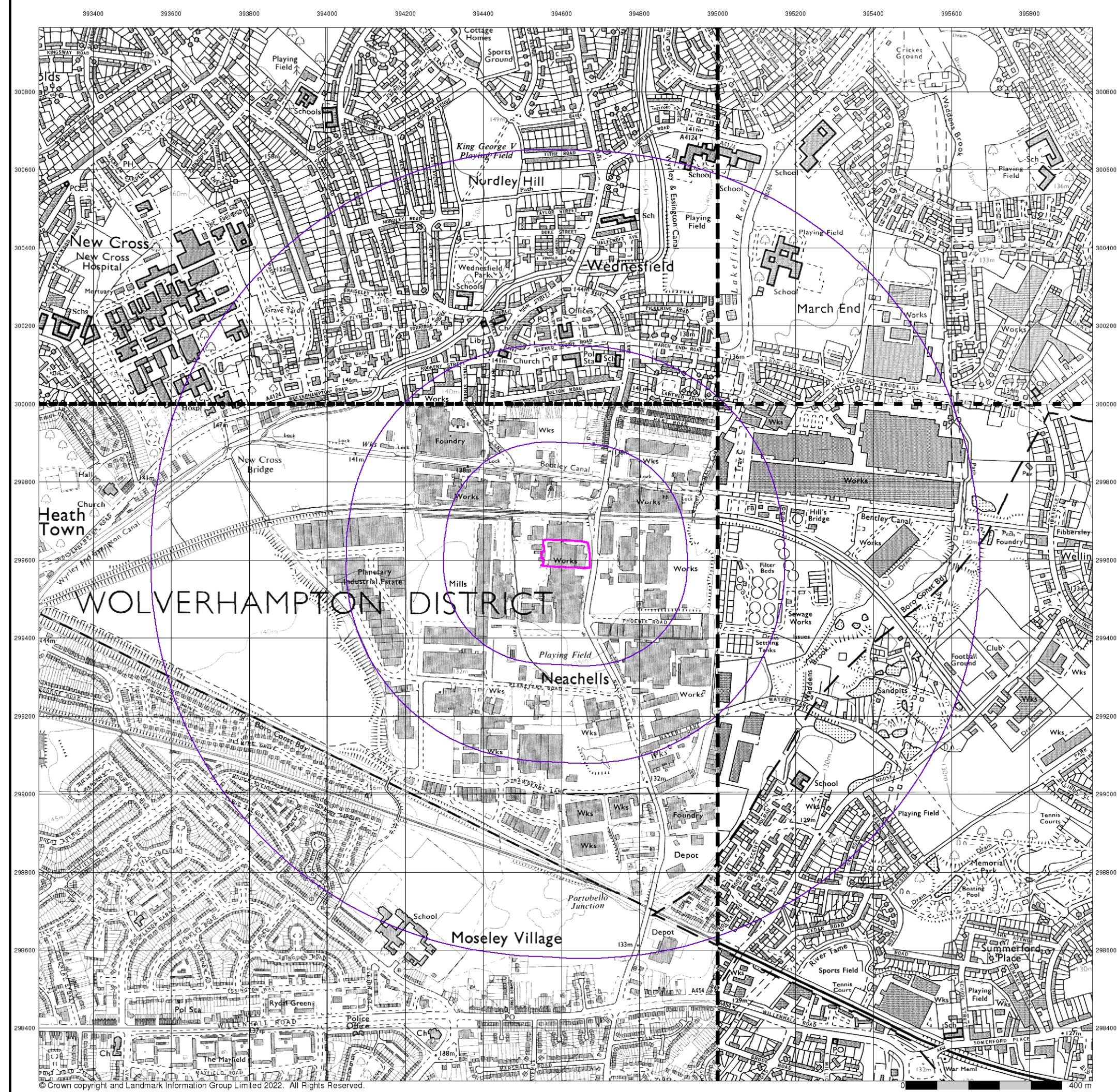
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 Customer Ref: 22-003
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Site Details

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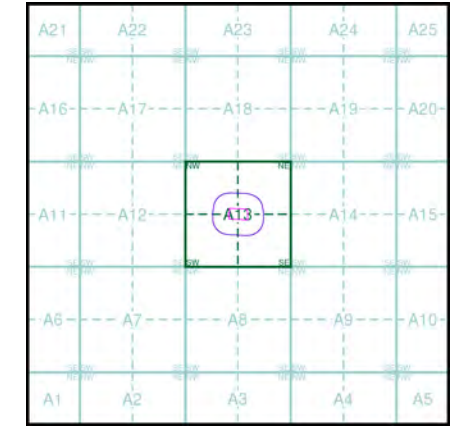
Ordnance Survey Plan
Published 1980 - 1986
Source map scale - 1:10,000

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)

SJ90SW	SJ90SE
1983	1982
1:10,000	1:10,000
SO99NW	SO99NE
1986	1980
1:10,000	1:10,000

Historical Map - Slice A



Order Details

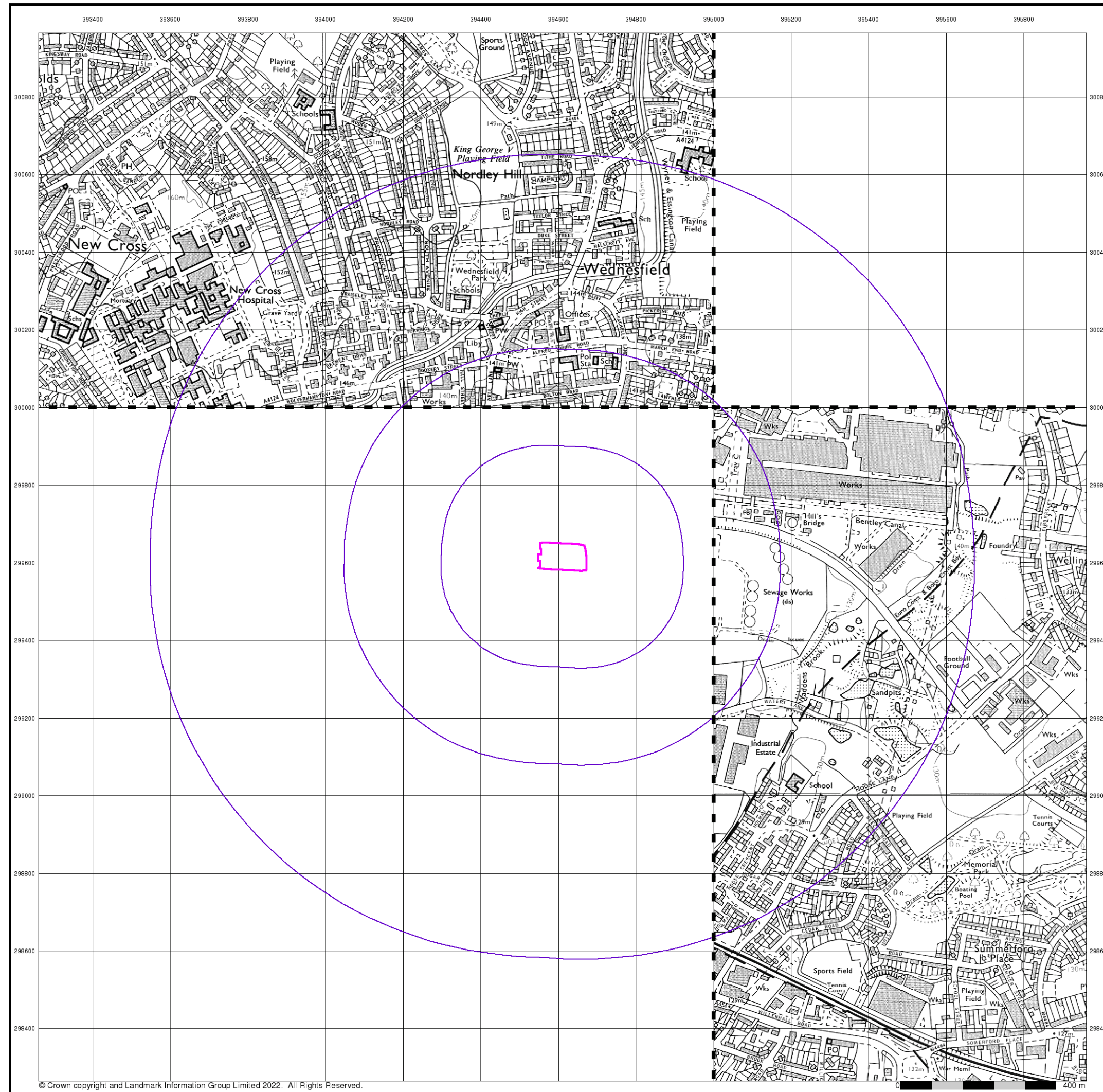
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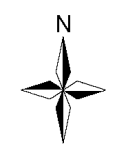
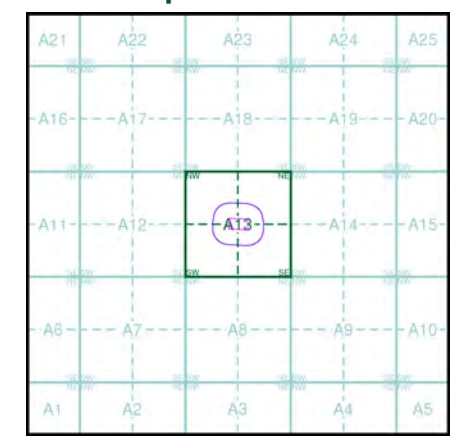
Ordnance Survey Plan
Published 1989
Source map scale - 1:10,000

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)

SJ90SW	1989	1:10,000
SO99NE	1989	1:10,000

Historical Map - Slice A



Order Details

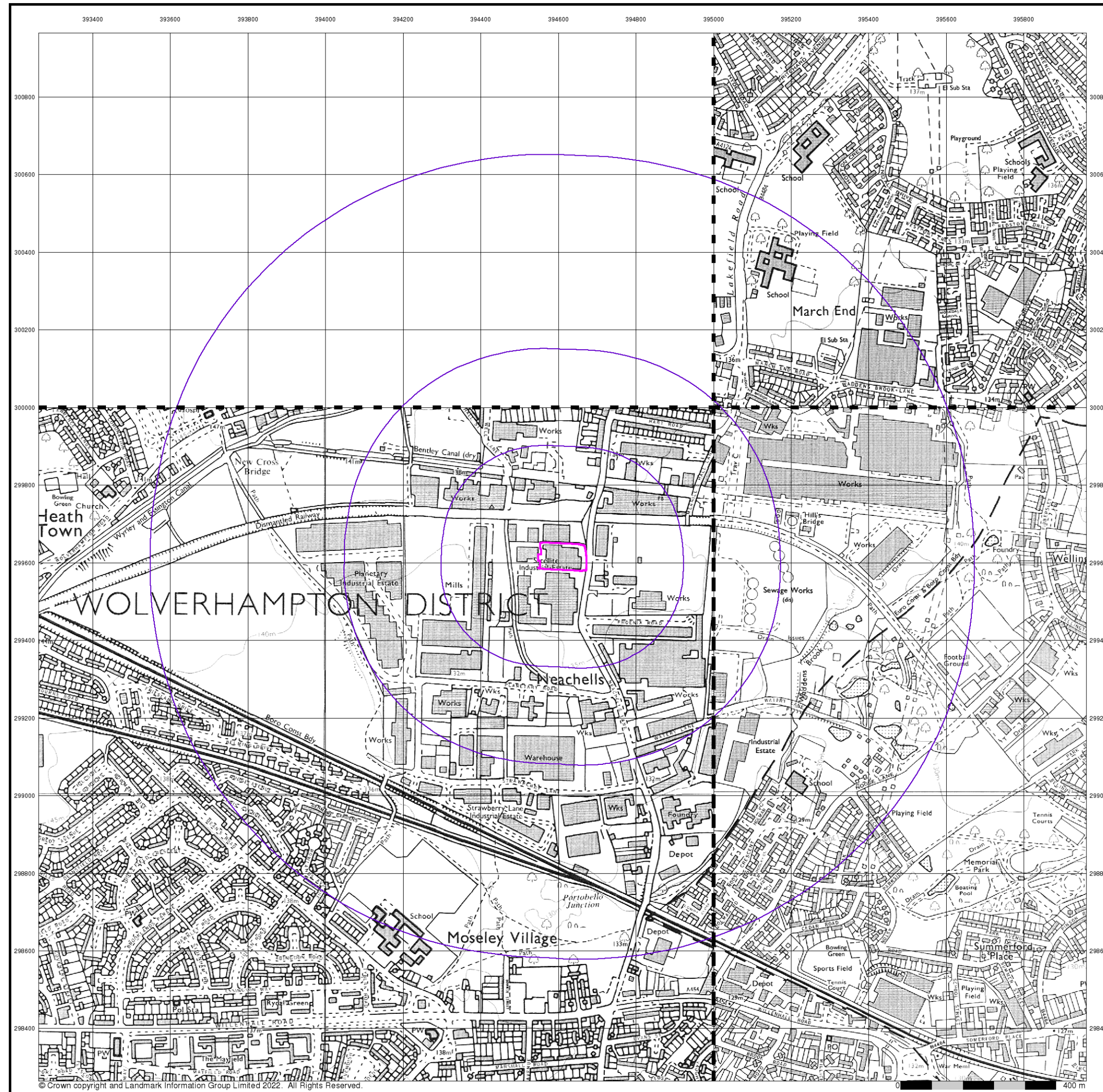
Order Number: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
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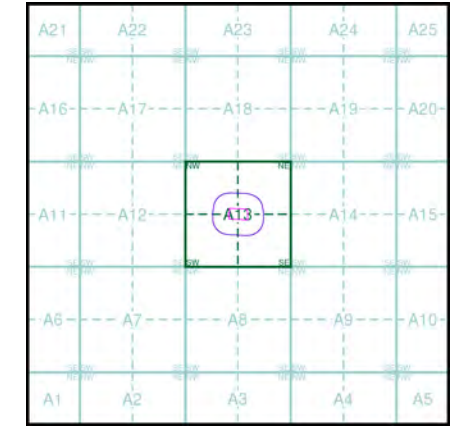
Ordnance Survey Plan
Published 1991 - 1993
Source map scale - 1:10,000

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)

	SJ90SE	
	1991	
	1:10,000	
SO99NW	SO99NE	
1993	1993	
1:10,000	1:10,000	

Historical Map - Slice A



Order Details

Order Number: 294968434_1_1
 Customer Ref: 22-003
 National Grid Reference: 394610, 299610
 Slice: A
 Site Area (Ha): 0.81
 Search Buffer (m): 1000

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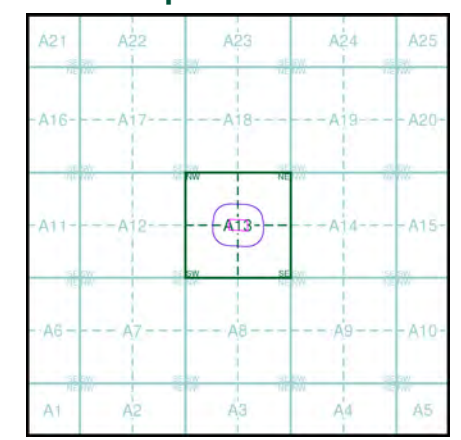
10k Raster Mapping
Published 1999
Source map scale - 1:10,000

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)

SJ90SW	SJ90SE
1999	1999
1:10,000	1:10,000
SO99NW	SO99NE
1999	1999
1:10,000	1:10,000

Historical Map - Slice A



Order Details

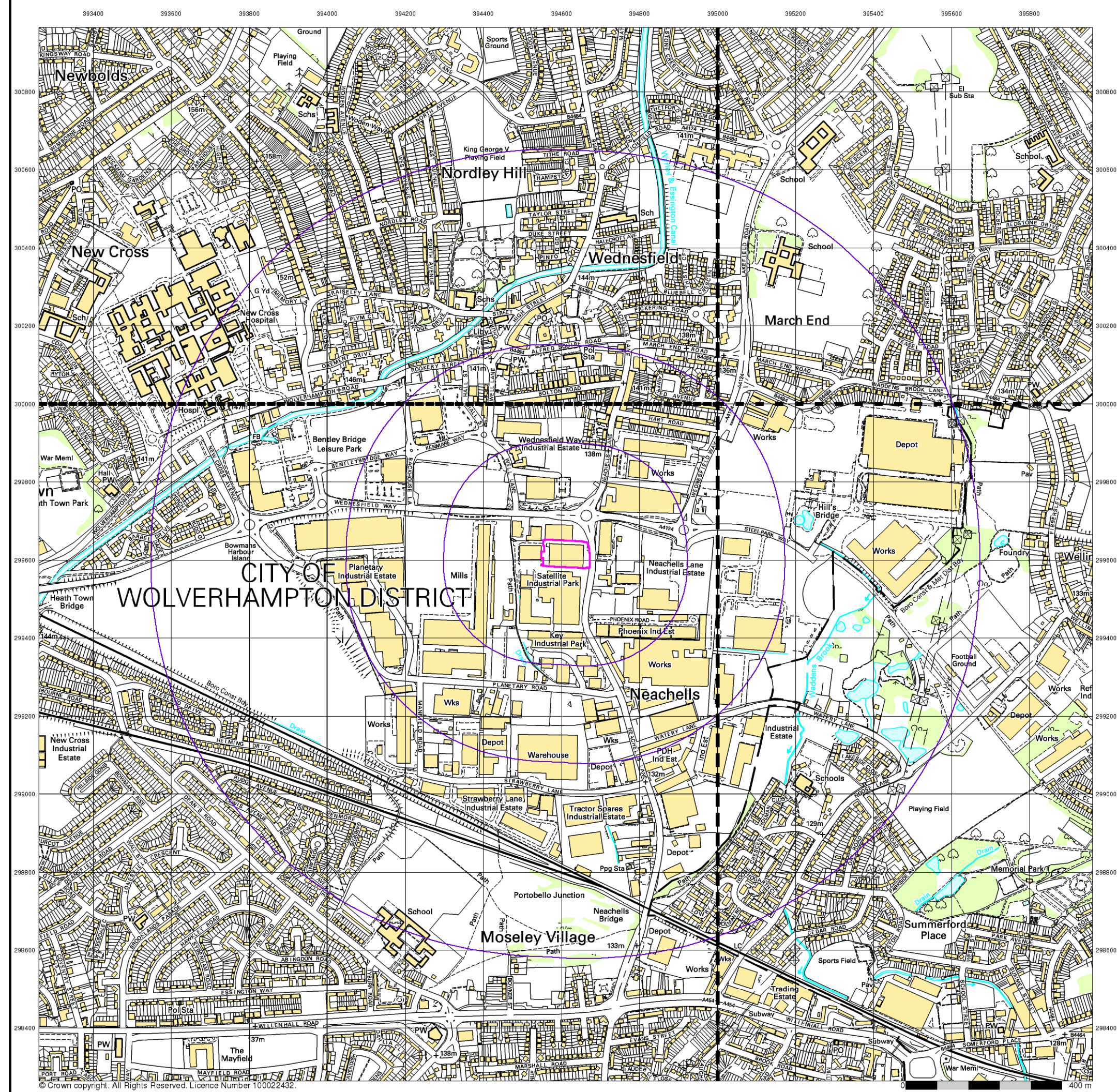
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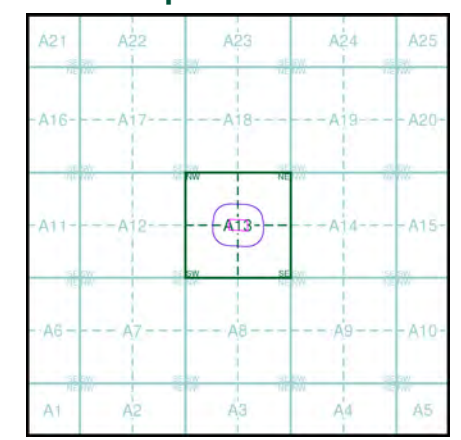
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

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)

SJ90SW	SJ90SE
2006	2006
1:10,000	1:10,000
SO99NW	SO99NE
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

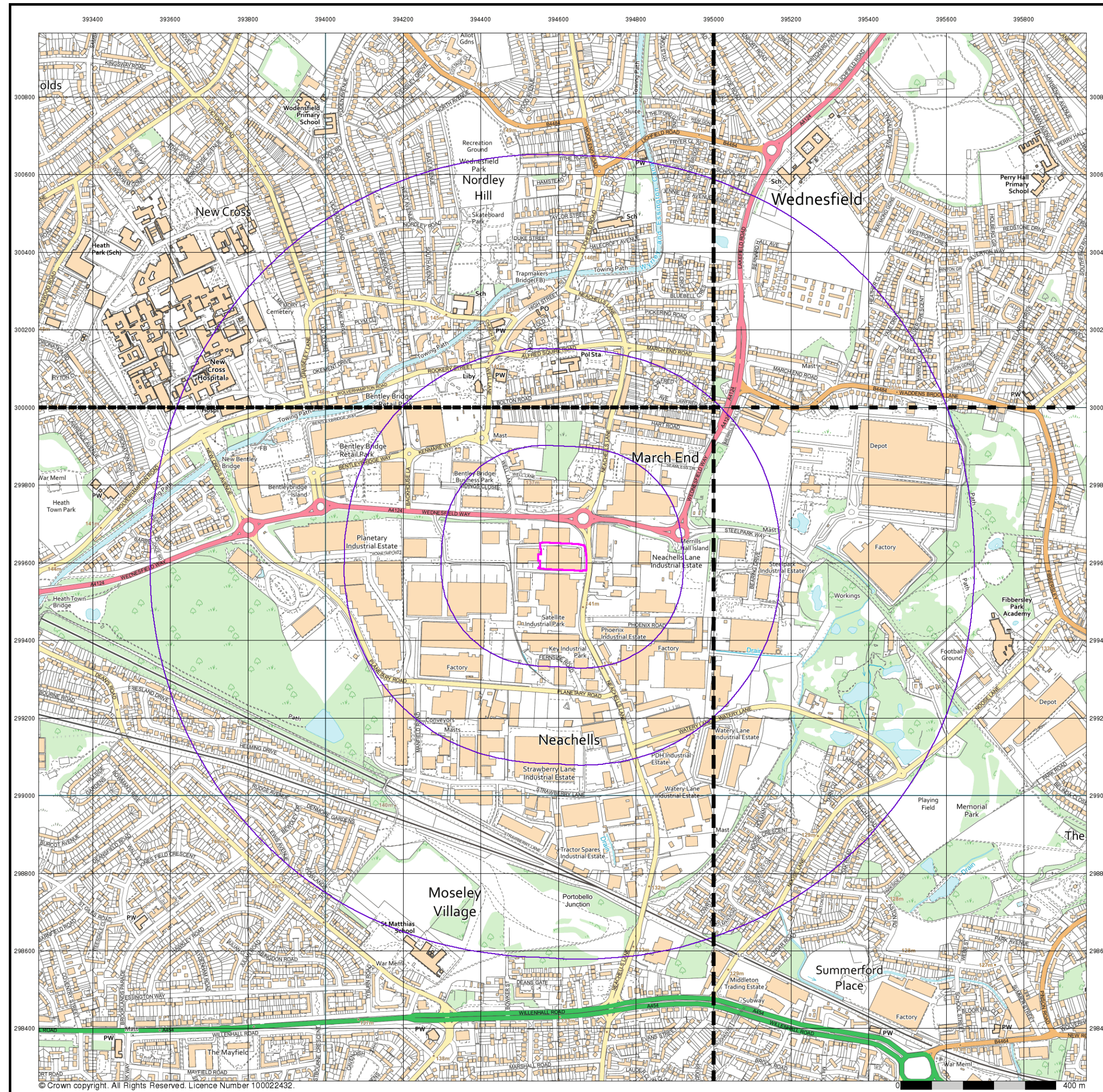
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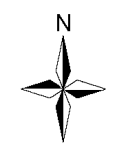
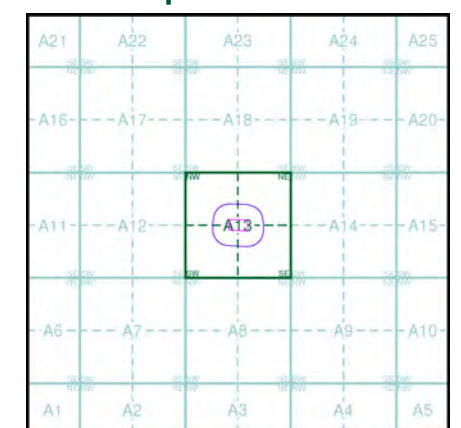
VectorMap Local
Published 2021
Source map scale - 1:10,000

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)

SJ90SW 2021 Variable	SJ90SE 2021 Variable
SO99NW 2021 Variable	SO99NE 2021 Variable

Historical Map - Slice A



Order Details

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 Slice: A
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Site Details

Proposed development, Satellite Ind. Park,
 WOLVERHAMPTON, WV11 3QG



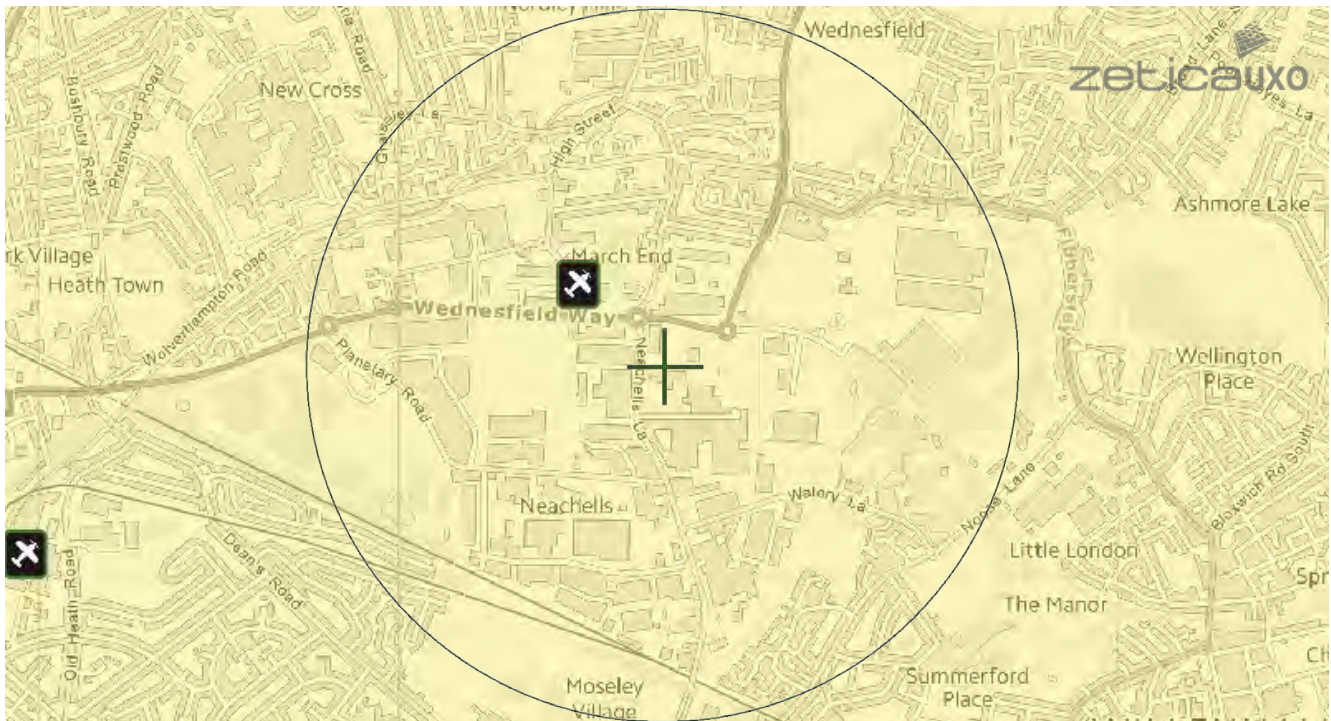
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 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Location: WV11 3QG,
Map Centre: 394746,299581



LEGEND

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

- military
- industry
- UXO find
- transport
- dock
- Luftwaffe targets
- utilities
- Bombing decoy
- other

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

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

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

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

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

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

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

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

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

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

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

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

If I have any questions, who do I contact?

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

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

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

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

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

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

APPENDIX IV

Conceptual Site Model (CSM)



ARC ENVIRONMENTAL LTD
 Solum House
 Unit 1 Elliott Court
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 Durham, DH7 8PN
 Tel: (0191) 378 6380
 Fax: (0191) 378 0494
 e-mail: admin@arc-environmental.com
 web: www.arc-environmental.com

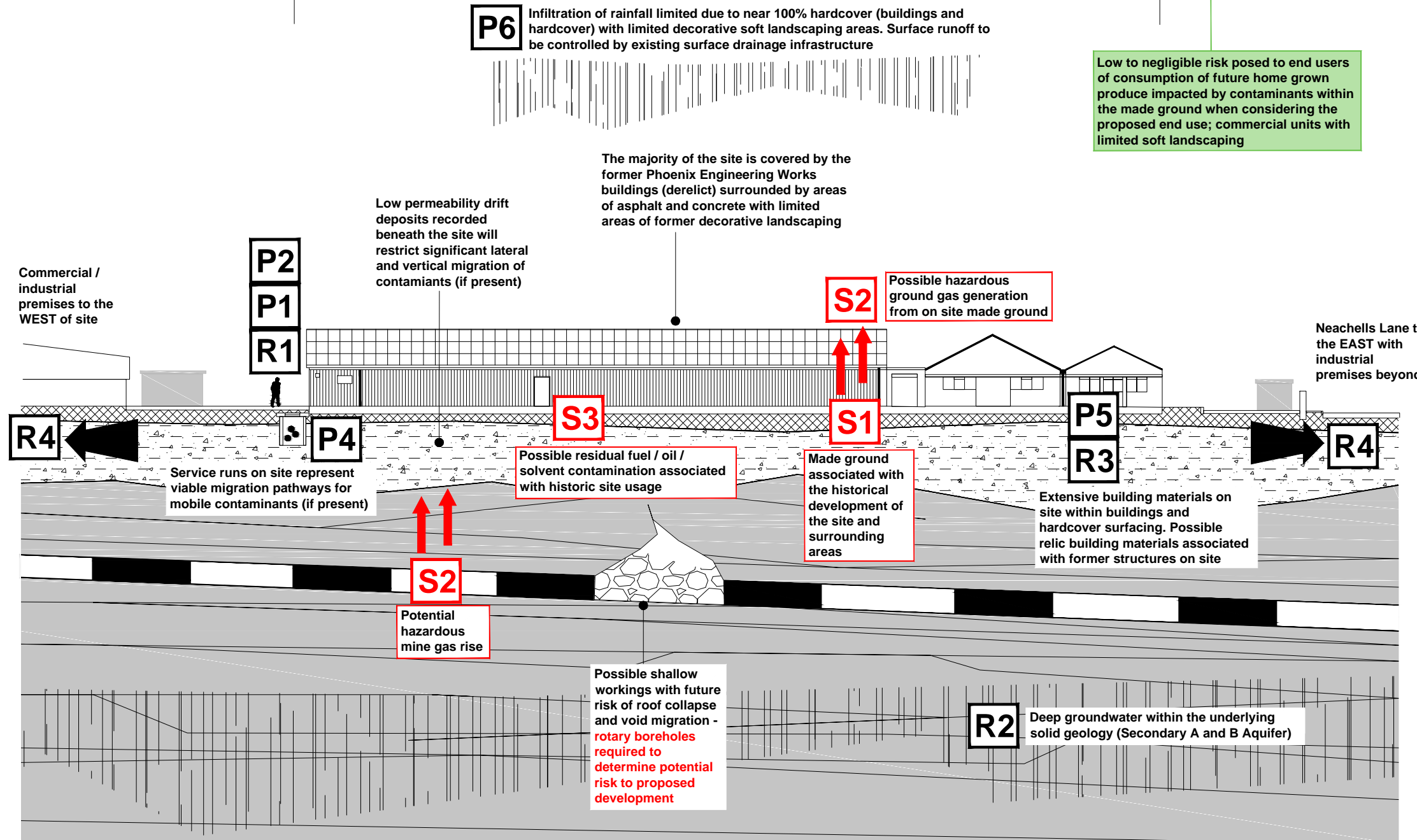
The contractor shall check all dimensions on site before commencement of any works. No dimensions to be scaled off this drawing.
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CRITICAL POLLUTANT LINKAGES

SOURCE	PATHWAY	RECEPTOR
S 1. Made ground associated with the historical development of the site and surrounding areas 2. Possible on-site / off-site sources of hazardous ground gases (made ground, nearby historical infilled land and mine gas associated with possible shallow coal workings) 3. Possible localised contamination associated with the former Phoenix Engineering Works (fuels, oils, asbestos & solvents)	P 1. Ingestion & Dermal Contact 2. Air - Inhalation of vapours (indoor & outdoors) and contact with dust 3. Plant uptake and attached soils 4. Migration through existing services 5. Direct contact with building materials 6. Surface run off & Infiltration	R 1. Human health - Future end users 2. Controlled Waters: Groundwater within the underlying solid geology (Identified as a Secondary A - Aquifer & Secondary B - Aquifer) and within the superficial geology (Secondary Undifferentiated) 3. Building materials & protection of water pipes* 4. Adjacent sites 5. Flora and fauna*

Indicative section through site using a WEST to EAST orientation

Low to negligible risk posed to end users of consumption of future home grown produce impacted by contaminants within the made ground when considering the proposed end use; commercial units with limited soft landscaping



STRATA DETAILS

MADE GROUND:
 In accordance with the published BGS maps, made ground is recorded on the site. From historical mapping relating to land uses within proximity of the site (sand pits, coal shafts, refuse tips, sludge beds and dismantled railway line, station and infilled Neachell Canal) and on-site Phoenix Engineering works, substantial made ground is therefore anticipated to be present below the proposed development area, comprising disturbed natural strata with anthropogenic debris (i.e., Brick, Concrete, etc)

DRIFT DEPOSITS:
 Published BGS maps indicate the majority of the site is underlain by Glacial Till, comprising of sandy, gravelly clays, with varying size and shaped boulders. A small area of the site, towards the south-eastern portion is recorded within an area of solid outcrop (An area where drift deposits are thin or absent), however some residual soils may be present

SOLID GEOLOGY:
 In accordance with the published BGS maps and Envirocheck report, the solid geology underlying the site comprises two types of deposits. The west of the site is underlain by the Pennine Lower Coal Measures Formation, comprising of interbedded grey mudstone, siltstone, and sandstone, sedimentary rocks formed during the Carboniferous Period. The southeast of the site an unnamed igneous intrusion (Westphalian - Microgabbro) is recorded, this igneous rock was formed during the Carboniferous Period, in an environment previously dominated by intrusions of silica-poor magma

rev. date amendments drawn chkd

Client: **ADEPT CSCE**

Project Title:
 Proposed Warehouse Development
 Satellite Industrial Park, Neachells Lane
 Wolverhampton, WV11 3QG

Drawing Title:
 Conceptual Site Model

Scale at A3: NTS @ A3 | Date: 05.07.22 | Drawn by: P.D | Approved by: N.L

Job Ref: 22-003 | Drg no: - | Rev: -