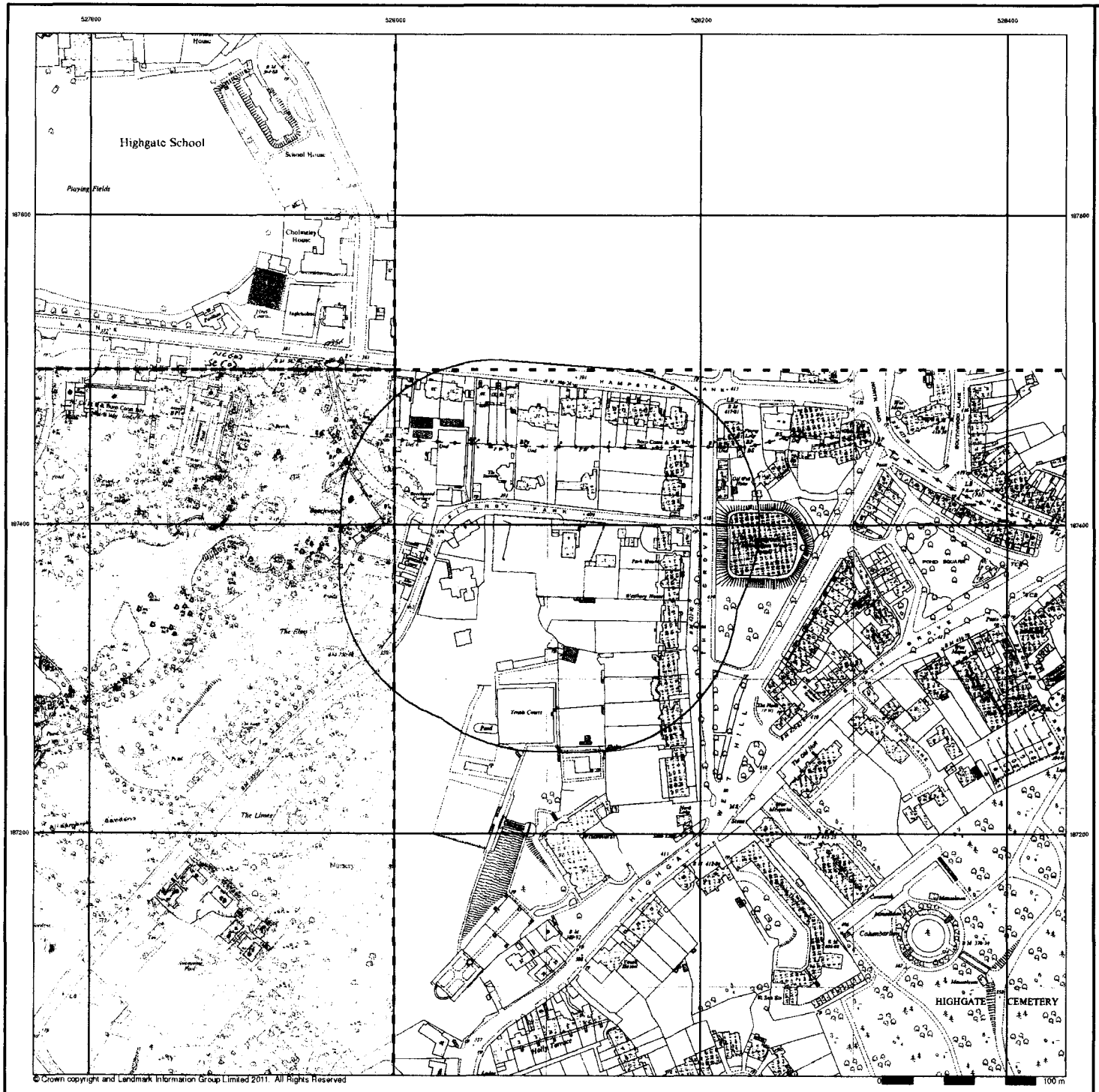

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[redacted]

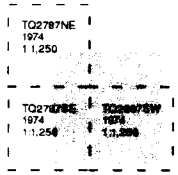
Supply of Unpublished Survey Information

Published 1974

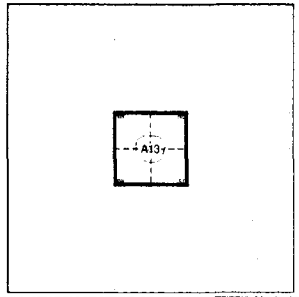
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey.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 These maps were unpublished, and they do not represent a single moment in time.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)



Historical Map - Segment A13



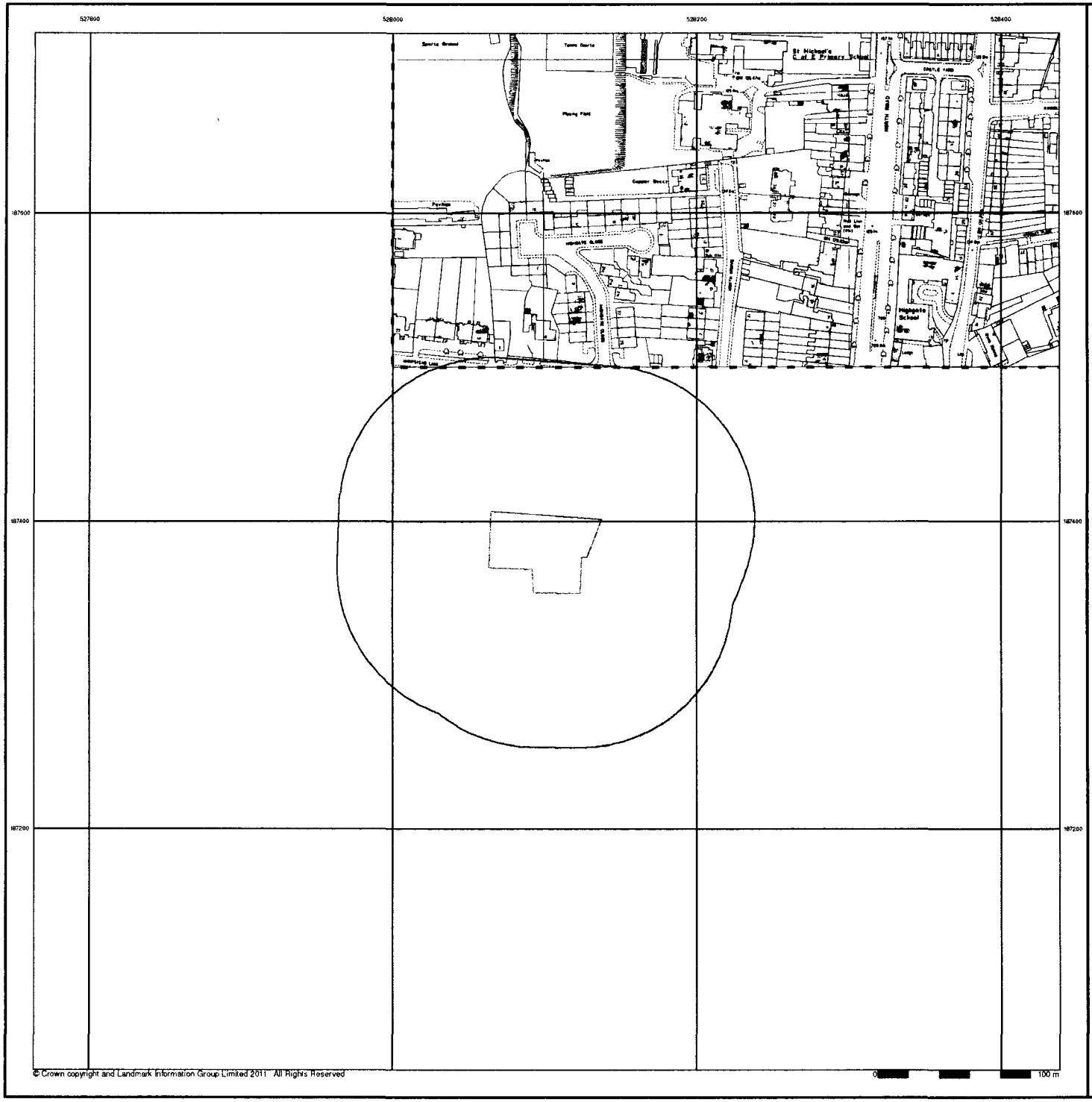
Order Details

Order Number:	36810138_1_1
Customer Ref:	1099
National Grid Reference:	528100, 187380
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	100

Site Details

6 Fitzroy Park, LONDON, N6 6HP

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



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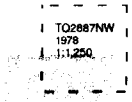
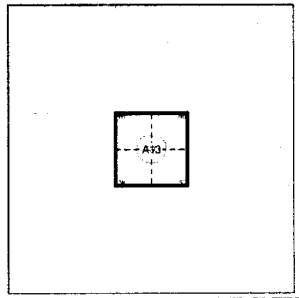
Ordnance Survey Plan
Published 1978
Source map scale - 1:1,250

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)



Historical Map - Segment A13



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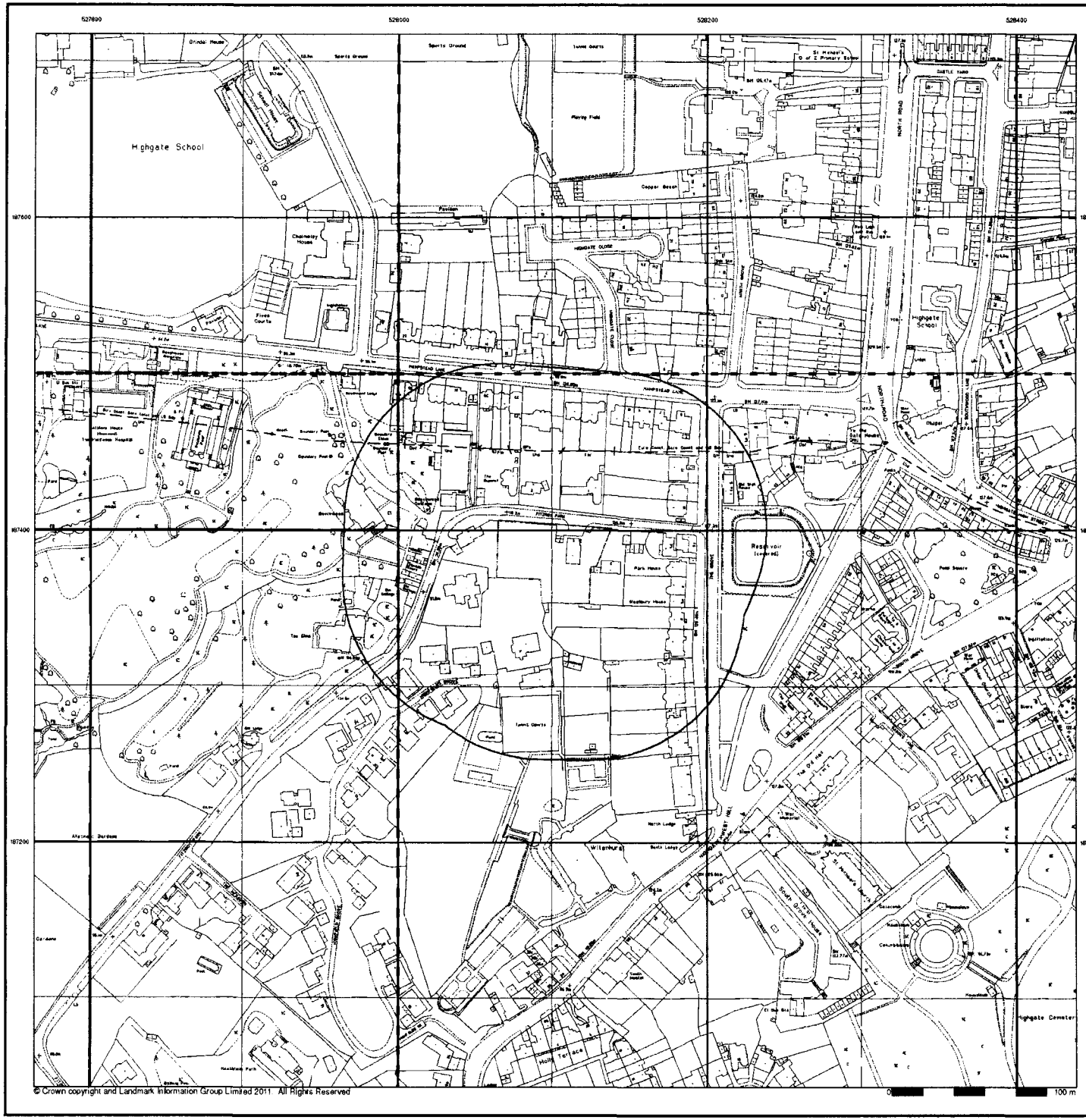

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Large-Scale National Grid Data

Published 1991

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)

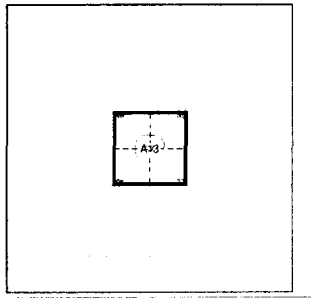
TQ2787NE 1991 1:1,250

TQ2887NW 1991 1:1,250

TQ2787SE 1991 1:1,250

TQ2887SW 1991 1:1,250

Historical Map - Segment A13



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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
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
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
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. 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
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pole
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
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
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

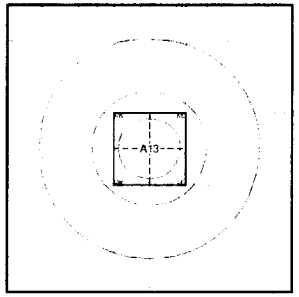
1:10,000 Raster Mapping

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)
BM 123.45 m 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
Middlesex	1:10,560	1873	3
Middlesex	1:10,560	1879	4
London	1:10,560	1896	5
Essex	1:10,560	1920	6
London	1:10,560	1920	7
Middlesex	1:10,560	1936	8
Middlesex	1:10,560	1938	9
Essex	1:10,560	1938	10
Historical Aerial Photography	1:10,560	1950	11
Ordnance Survey Plan	1:10,000	1951	12
Ordnance Survey Plan	1:10,000	1958	13
Ordnance Survey Plan	1:10,000	1968	14
Ordnance Survey Plan	1:10,000	1976	15
London	1:25,000	1985	16
Ordnance Survey Plan	1:10,000	1996	17
10K Raster Mapping	1:10,000	1999	18
10K Raster Mapping	1:10,000	2006	19
10K Raster Mapping	1:10,000	2011	20

Historical Map - Slice A



Order Details

Order Number: 36810138_1_1
Customer Ref: 1099
National Grid Reference: 528100, 187380
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

6 Fitzroy Park, LONDON, N6 6HP

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

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Fireproof Building
- Prominent Fireproof Building
- Non-fireproof Building
- Non-fireproof Building (non-dwelling)
- Factory, mill, and flour mill, with chimneys
- Factory, mill, and flour mill, without chimneys
- Power Station, drawn to scale
- Hydroelectric Power Station
- Radio Station, drawn to scale
- Telephone Station, drawn to scale
- Abandoned Open-pit Mine or Quarry
- Open-pit Salt Mine
- Pit
- Oil Deposit or Well
- Oil Seepage
- Tailings Pile
- Fuel Storage Tanks
- Natural Gas Tank
- Bench Mark
- Drill Hole
- Burial Mound
- Triangulation Point on Burial Mound
- Single-track Railroad
- Double-track Railroad and Station Building
- Coniferous Forest
- Deciduous Forest
- Mixed Forest
- Lawns
- Citrus Orchard
- Wet Ground
- Scattered Vegetation

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

180/12 160/8 — 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

- Government and Administrative Buildings
- Military and Industrial Buildings
- Military and Communication Areas
- Subway Entrance
- Partly Demolished Buildings
- Demolished Buildings
- Built-Up Area with Fireproof Buildings Predominant
- Built-Up Area with Non-Fireproof Buildings Predominant
- Individual Fireproof Building
- Prominent Industrial Building
- Individual Dwelling, Fireproof
- Ruins of an Individual Dwelling
- Factory or Mill Chimney
- Factory or Mill with Chimney
- Factory or Mill without Chimney
- Mine or Open Pit Mine
- Operating Shaft or Mine
- Non-Operating Shaft or Mine
- Salt Mine
- Tailings Pile
- Pit
- Stone Quarry
- Gas Pump or Service Station
- Fuel Storage or Natural Gas Tank
- Oil or Natural Gas Derrick
- Small Hydroelectric Power Station
- Power Station
- Transformer Station
- Cemetery
- Burial Mound (height in metres)
- Triangulation Point on Burial Mound
- Triangulation Point
- Bench Mark
- Bench Mark (monumented)
- Telegraph Office
- Telephone Station
- Radio Station
- Radio Tower
- Airfield or Seaplane Base
- Landing Strip
- Telegraph/Telephone Lines
- Main Highway
- Highway under Construction
- Improved Dirt Road (former truck road)
- Double-track Railroad with First Class Station
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment
- Direction and velocity of current
- Water Level Mark
- Well
- Water Reservoir or Rain Water Pit
- Spring
- Isobath with value
- Heavy (Index) Contour Line
- Contour Line and Value
- Half Contour Line
- Spot Elevation Value
- Coniferous
- Deciduous
- Mixed
- Scrub

Key to Numbers on Mapping

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:10,560	1873	3
Middlesex	1:10,560	1879	4
London	1:10,560	1896	5
Essex	1:10,560	1920	6
London	1:10,560	1920	7
Middlesex	1:10,560	1936	8
Middlesex	1:10,560	1938	9
Essex	1:10,560	1938	10
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Ordnance Survey Plan	1:10,000	1976	15
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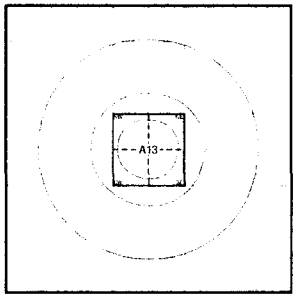
Ordnance Survey Plan	1:10,000	1996	17
10K Raster Mapping	1:10,000	1999	18
10K Raster Mapping	1:10,000	2006	19
10K Raster Mapping	1:10,000	2011	20

Russian Map - Slice A



Order Details

Order Number: 36810138_1_1
Customer Ref: 1099
National Grid Reference: 528100, 187380
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details

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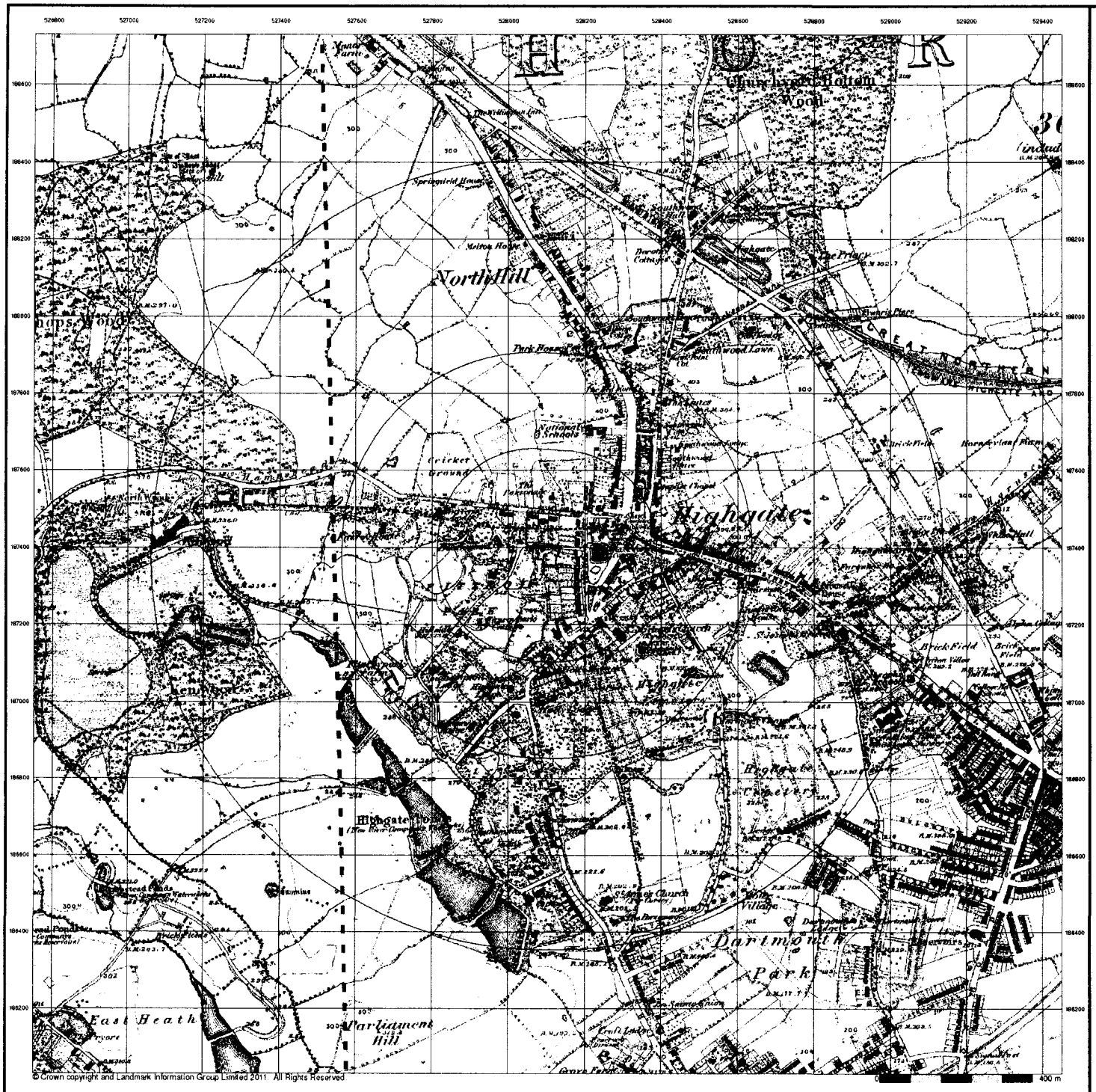

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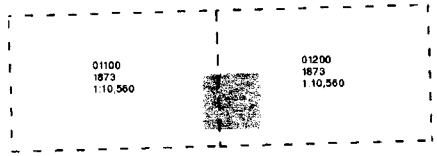
Middlesex

Published 1873

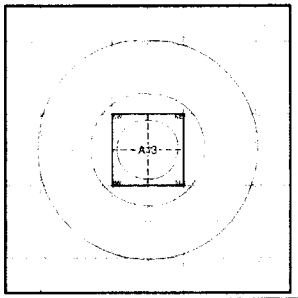
Source map scale - 1:10,560

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



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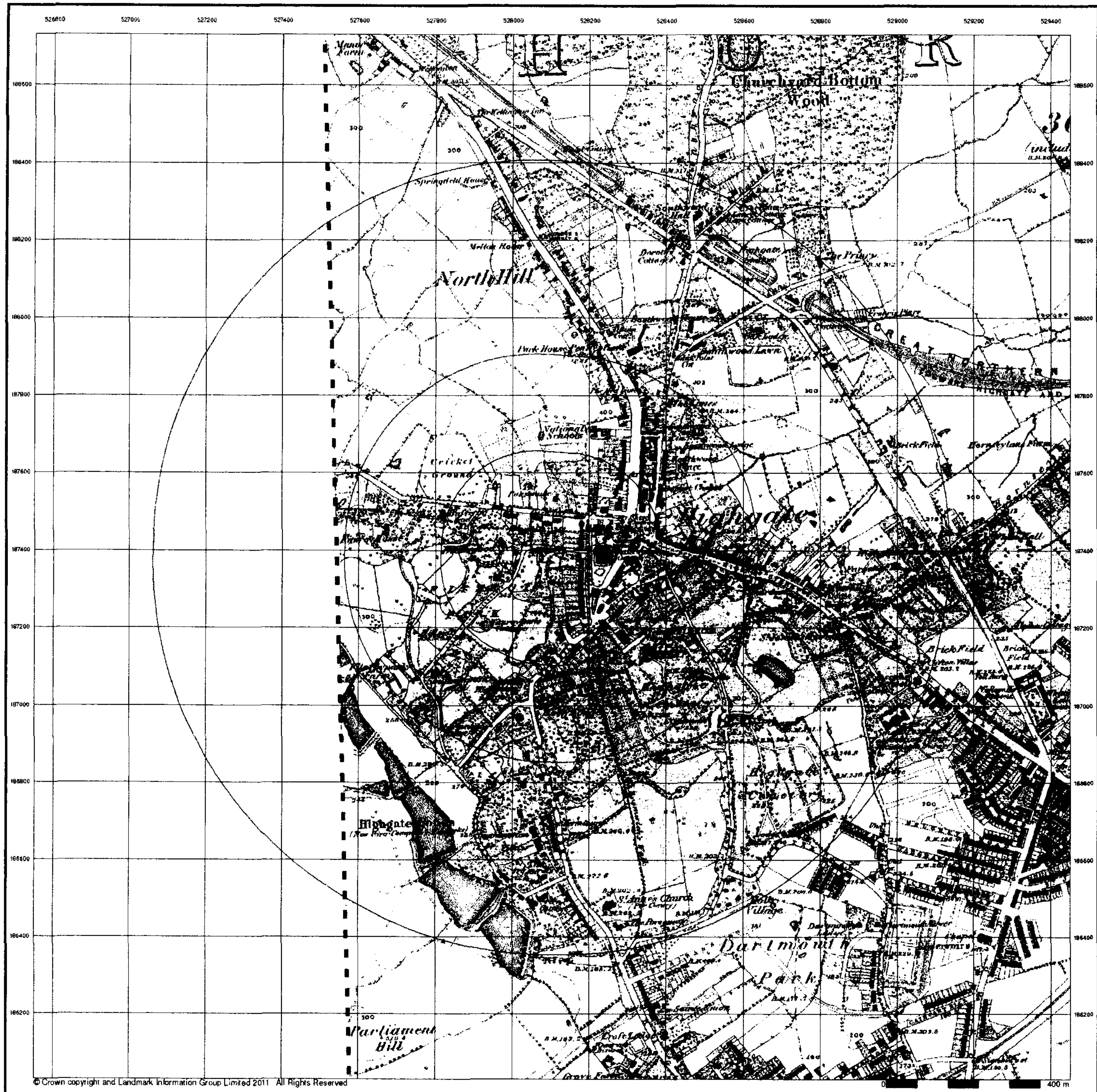

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Middlesex

Published 1879

Source map scale - 1:10,560

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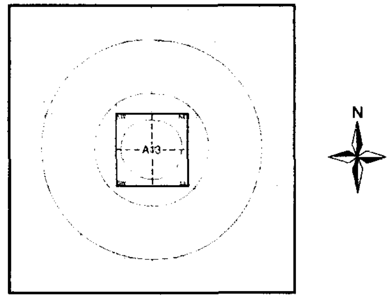
Map Name(s) and Date(s)

01200
1879
1:10,560

Historical Map - Slice A



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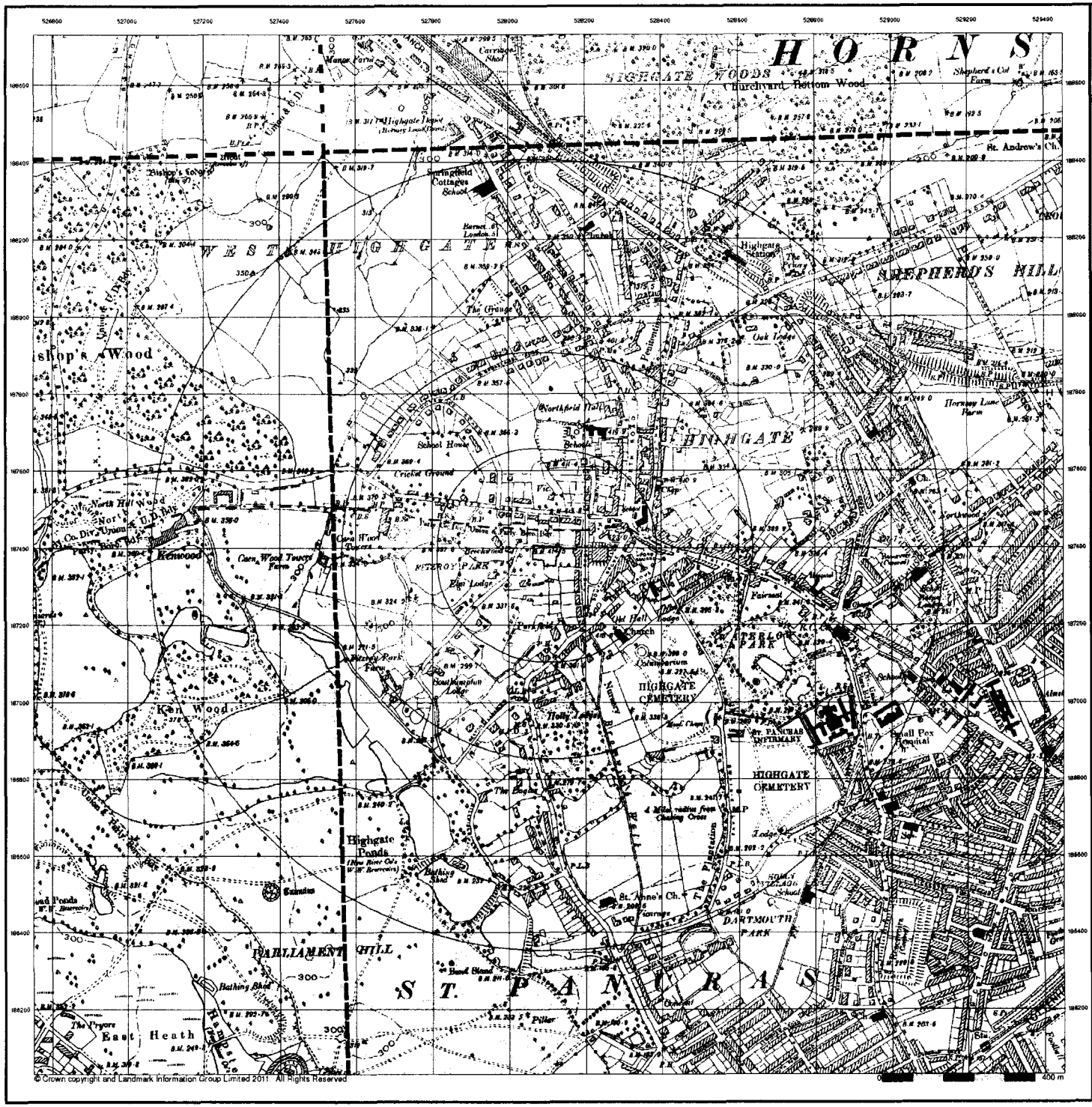

London

Published 1896

Source map scale - 1:10,560

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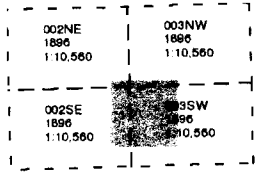
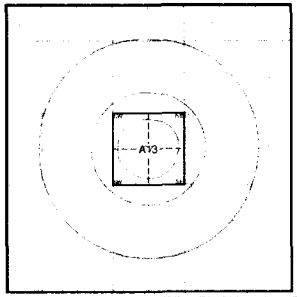
Map Name(s) and Date(s)



Historical Map - Slice A



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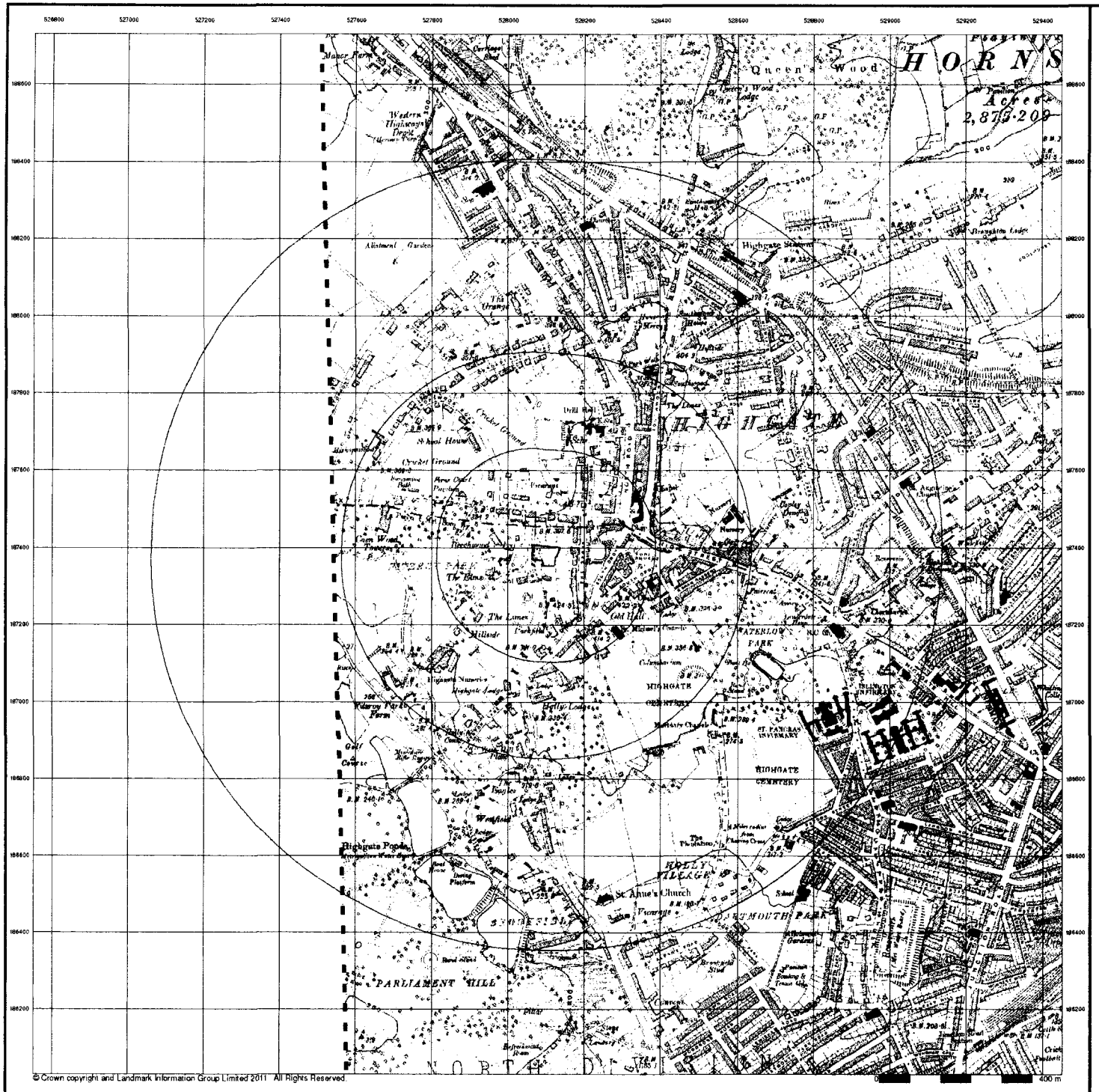

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Essex

Published 1920

Source map scale - 1:10,560

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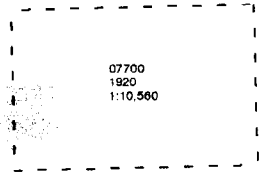
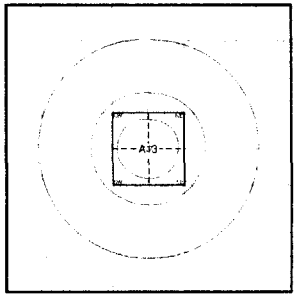
Map Name(s) and Date(s)



Historical Map - Slice A



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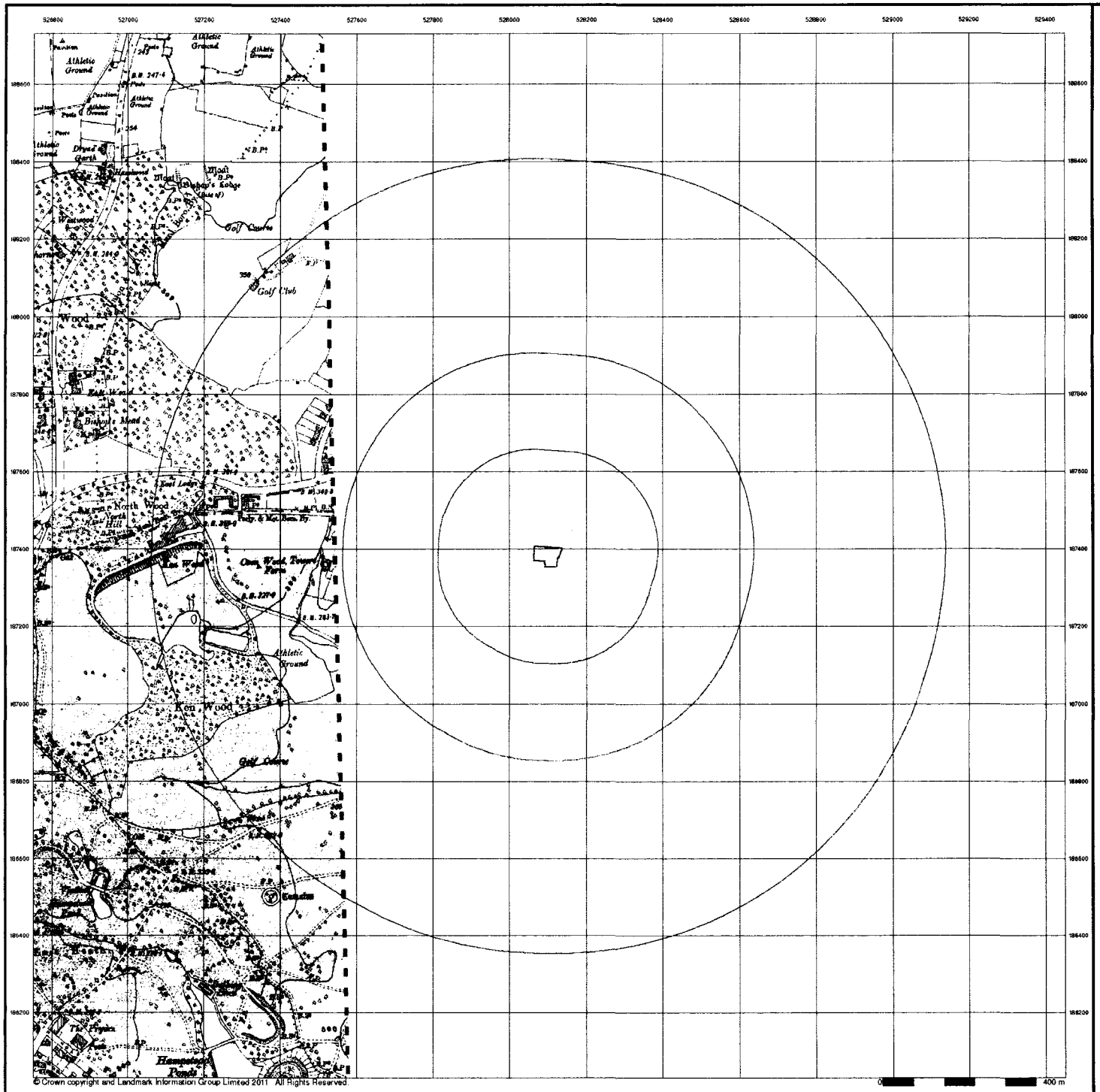
Site Details

6 Fitzroy Park, LONDON, N6 6HP



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[redacted]

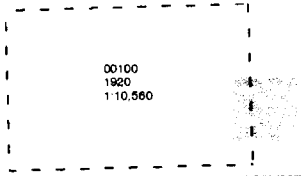
London

Published 1920

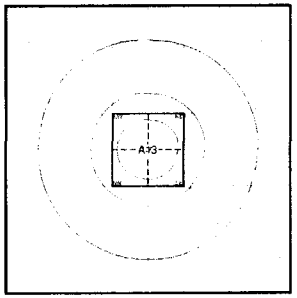
Source map scale - 1:10,560

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:	36810138_1_1
Customer Ref:	1099
National Grid Reference:	528100, 187380
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	1000

Site Details

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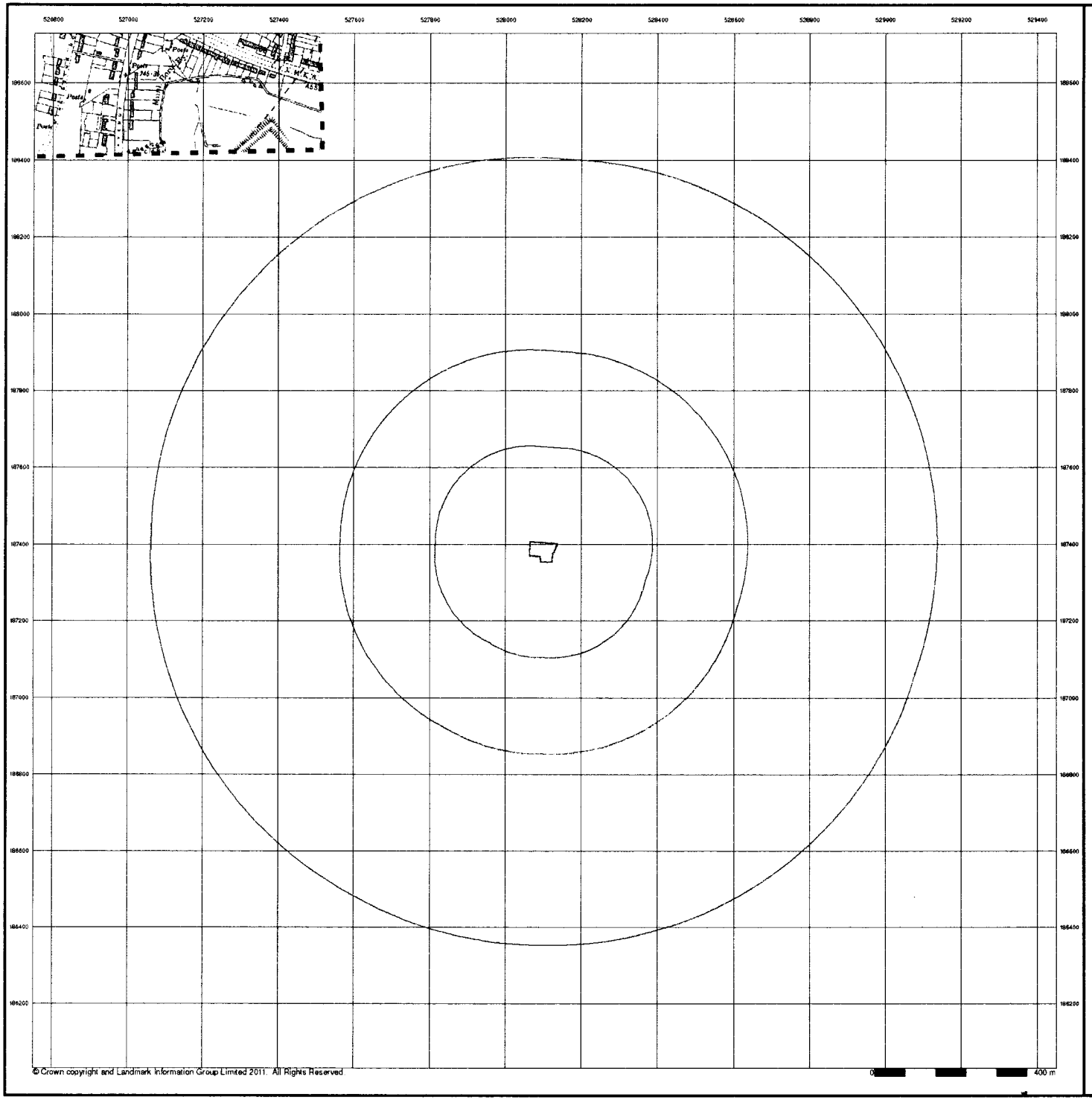

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Middlesex

Published 1936

Source map scale - 1:10,560

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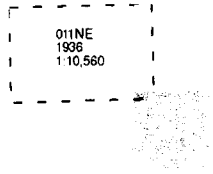
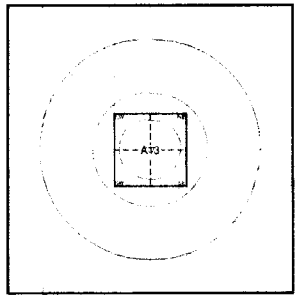


Historical Map - Slice A



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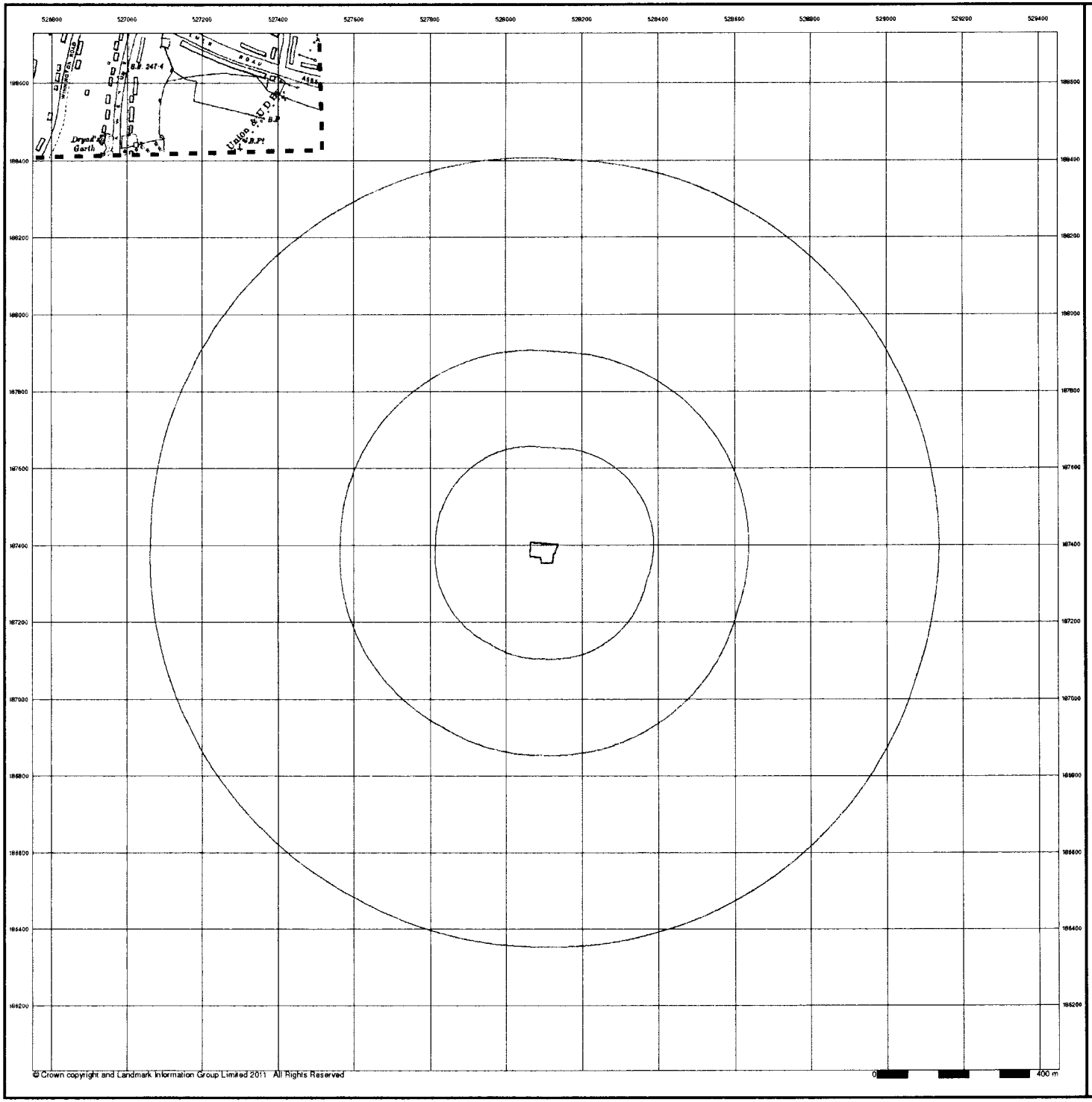

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Middlesex

Published 1938

Source map scale - 1:10,560

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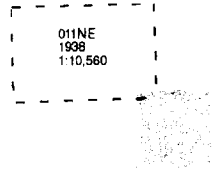
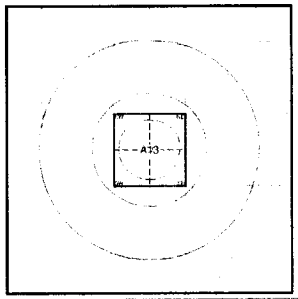


Historical Map - Slice A



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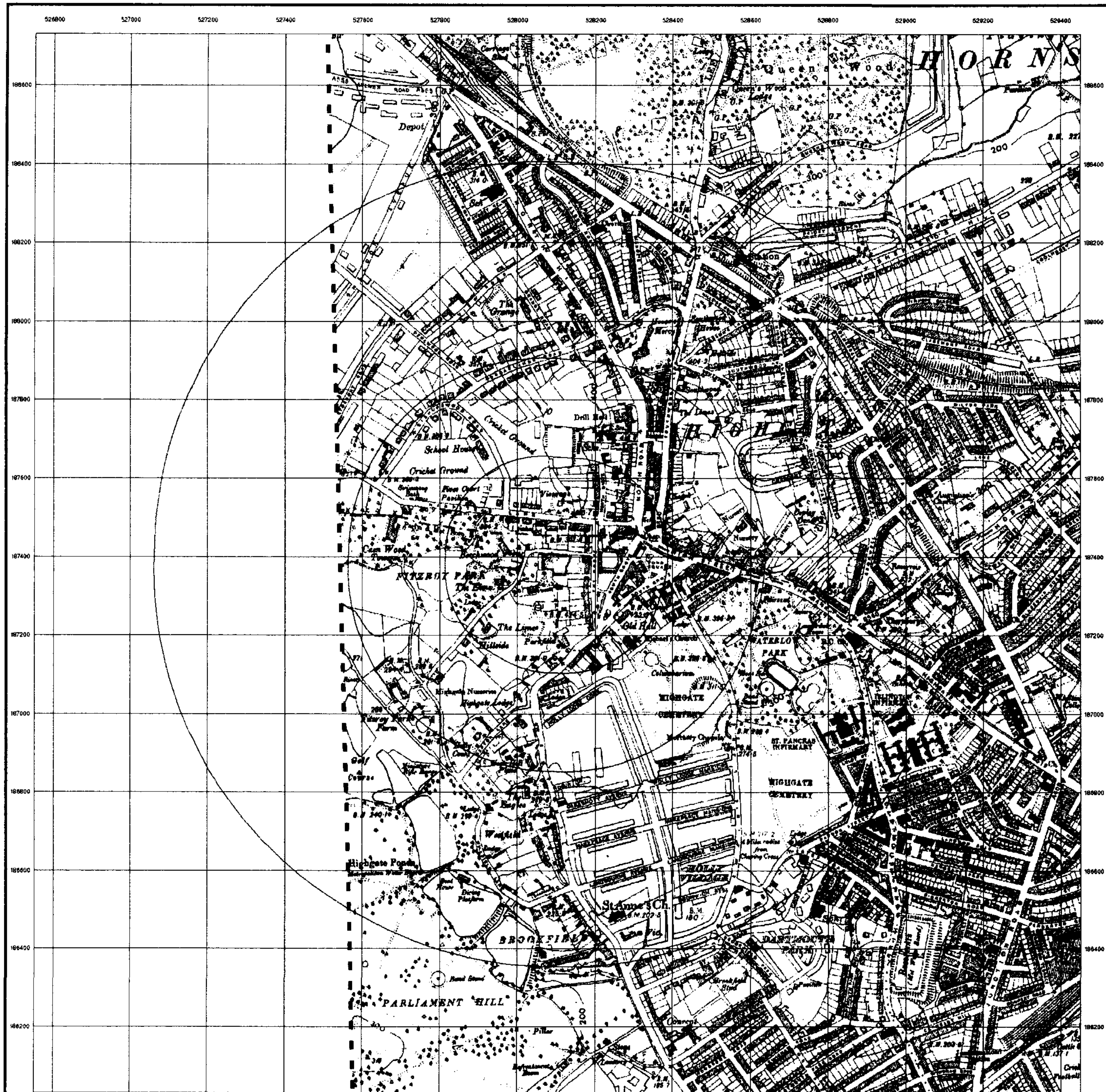

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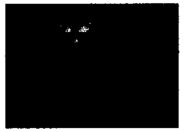

Essex

Published 1938

Source map scale - 1:10,560

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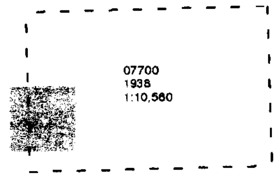
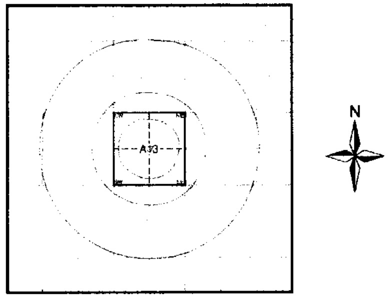


Historical Map - Slice A



Order Details

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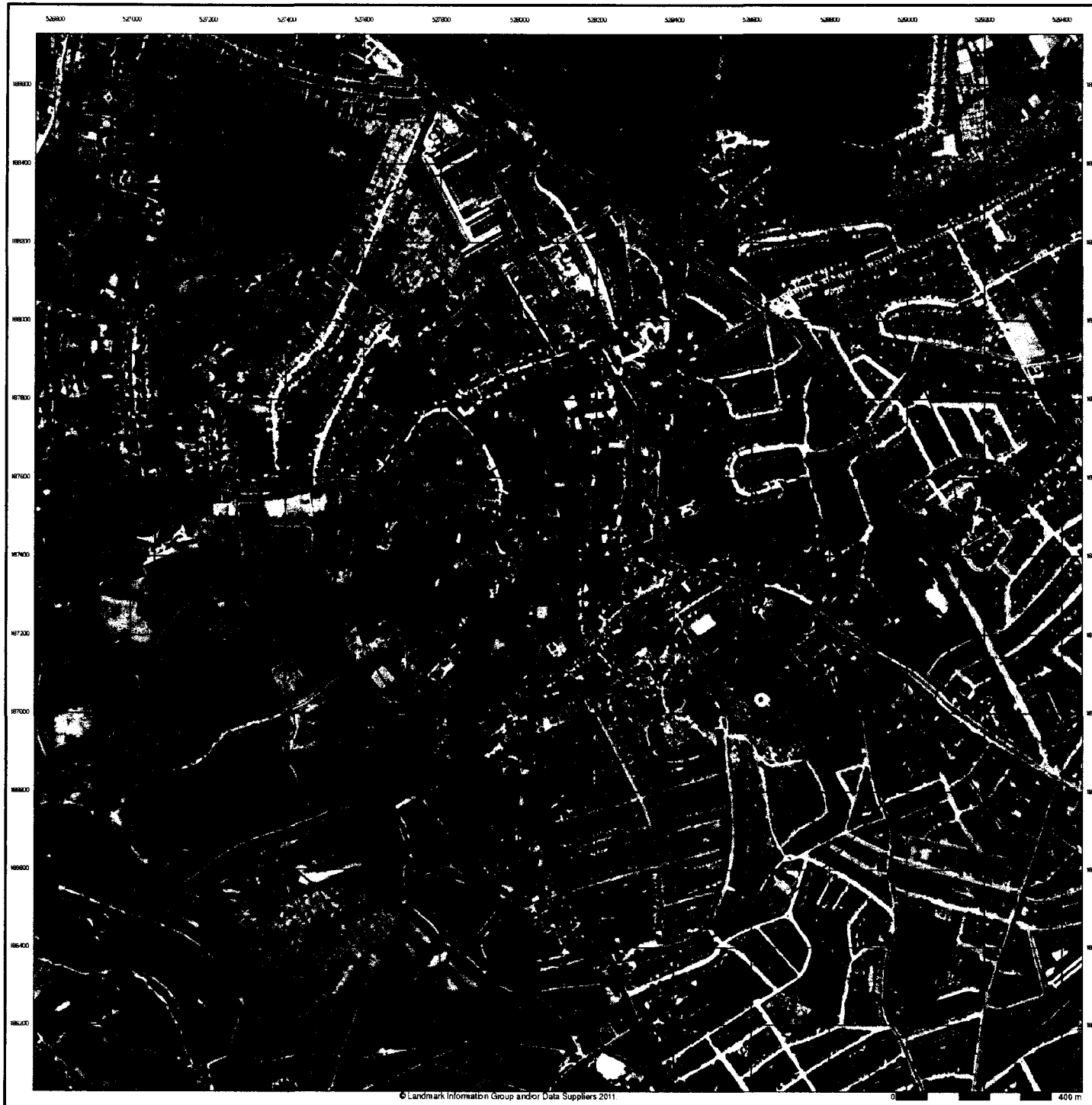

Historical Aerial Photography
Published 1950
Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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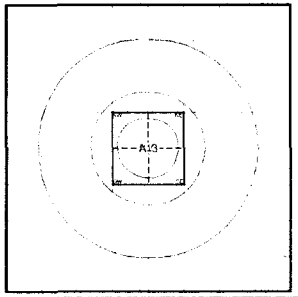
Map Name(s) and Date(s)

Historical Aerial Photography - Slice A



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Ordnance Survey Plan
Published 1951
Source map scale - 1:10,000

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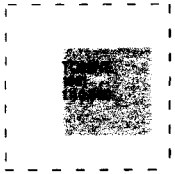
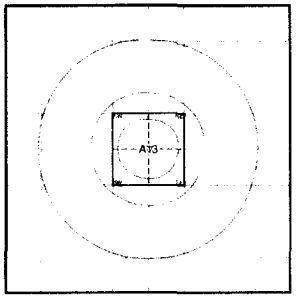
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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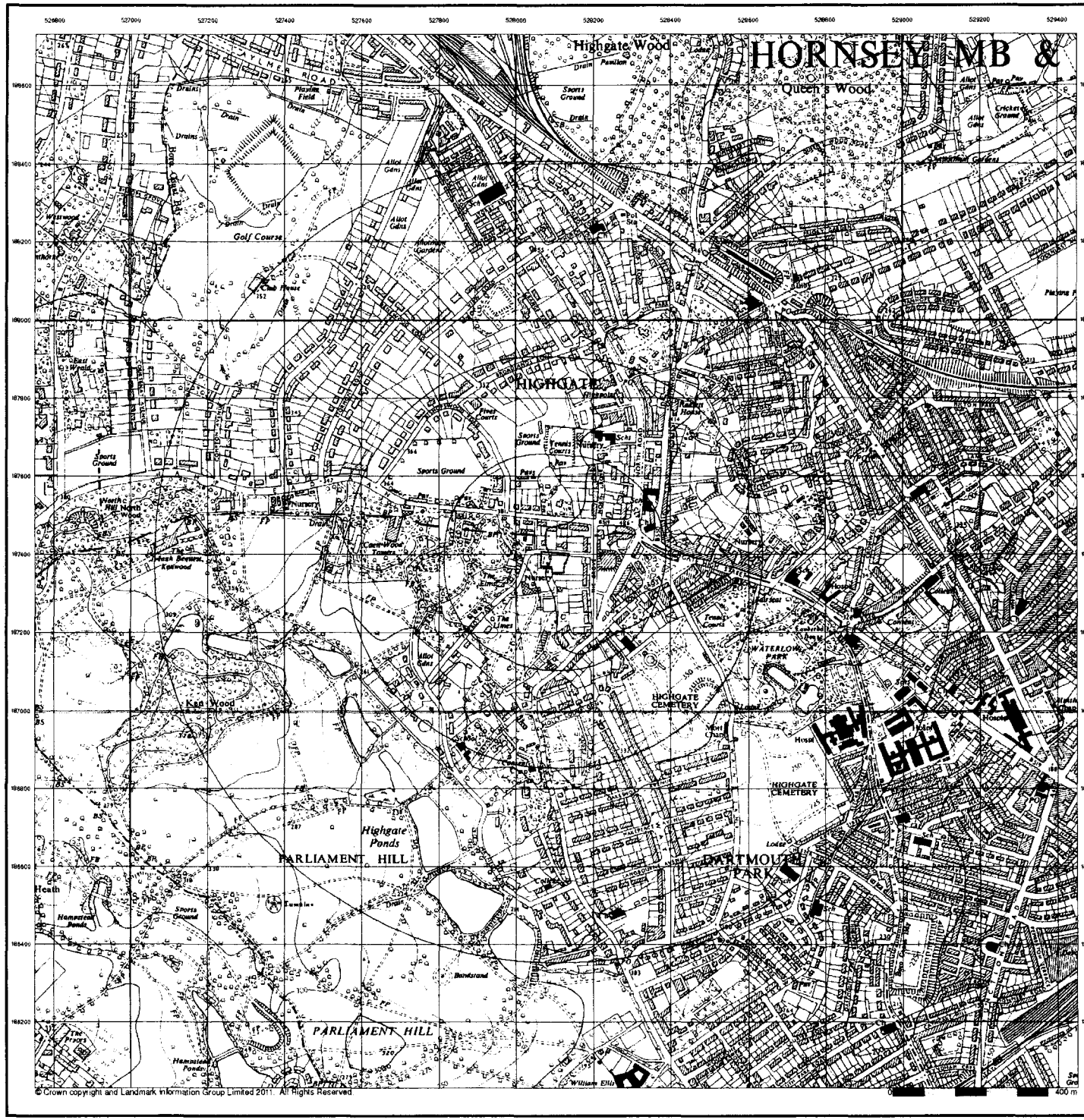

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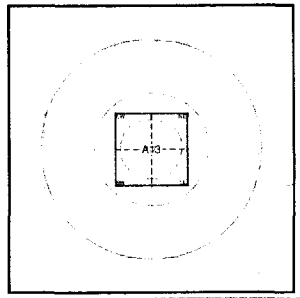
Ordnance Survey Plan
Published 1958
Source map scale - 1:10,000

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



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

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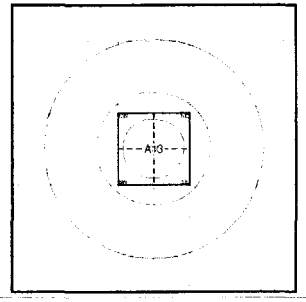
Map Name(s) and Date(s)

Historical Map - Slice A



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Ordnance Survey Plan
Published 1976
Source map scale - 1:10,000

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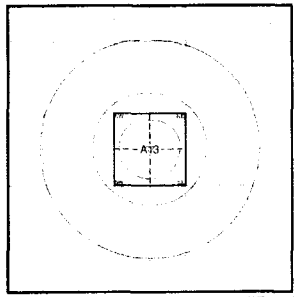
Map Name(s) and Date(s)

Historical Map - Slice A



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London

Published 1985

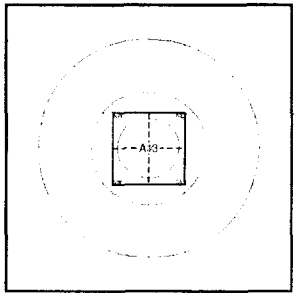
Source map scale - 1:25,000

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)

TQ28
1985
1:25,000

Russian Map - Slice A



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Ordnance Survey Plan
Published 1996
Source map scale - 1:10,000

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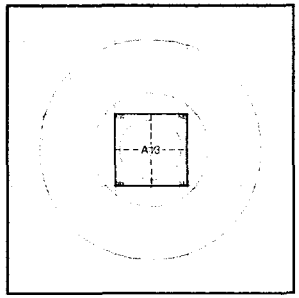
Map Name(s) and Date(s)

Historical Map - Slice A



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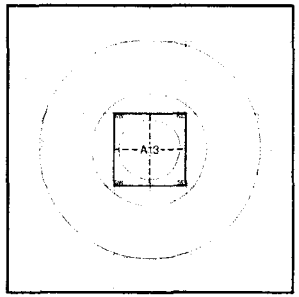
10k Raster Mapping
Published 1999
Source map scale - 1:10,000

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)

Historical Map - Slice A



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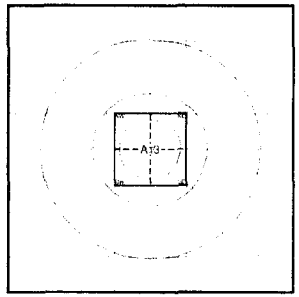
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

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)

Historical Map - Slice A



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10k Raster Mapping
Published 2011
Source map scale - 1:10,000

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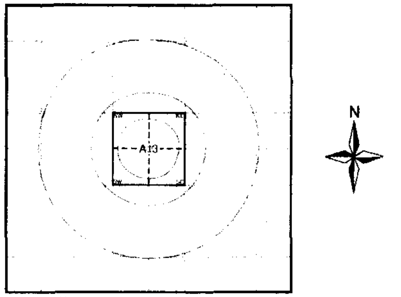
Map Name(s) and Date(s)

Historical Map - Slice A



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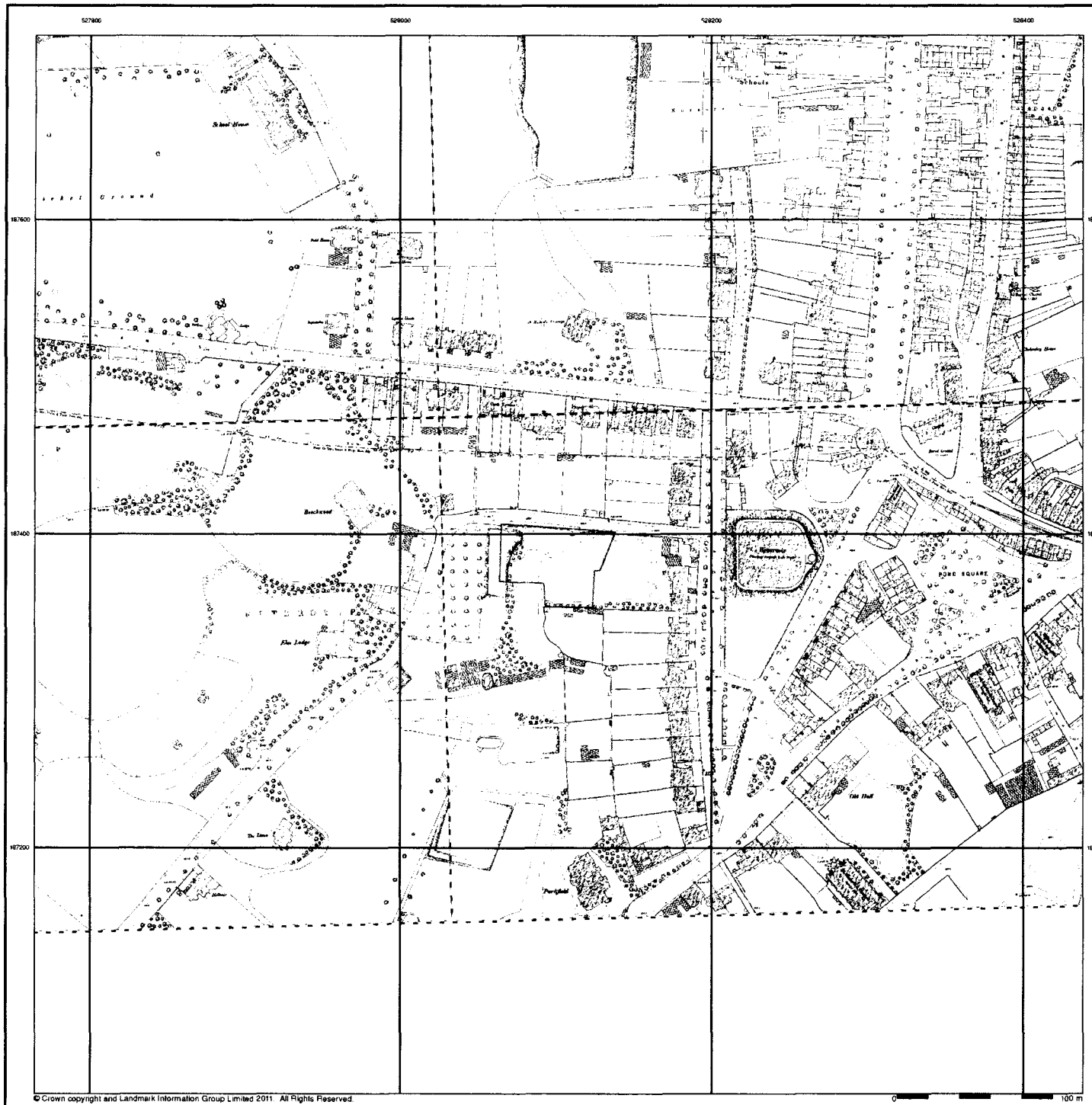
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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LUSTRE CONSULTING

Middlesex

Published 1895

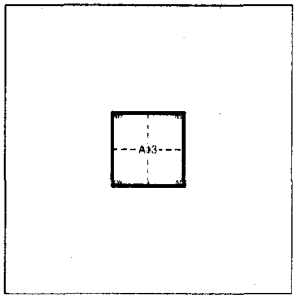
Source map scale - 1:528

The 1:528 scale Ordnance Survey mapping was adopted in 1850 as an alternative to the 1:1056 scale, that had been deemed to be inadequate for sanitary planning, which had come very much to the fore following the passing of the Public Health Act of 1948. Around 29 towns in England and Wales were surveyed at this scale, the bulk of which were undertaken between 1850 and 1855. These were predominantly towns that were outside the areas being surveyed at 1:10,560 or 1:2500 scale. As well as showing the details characteristic of the later 1:500 plans, they show features of sanitary interest such as privies, taps, cow houses, cess pits, brew and bake houses and cart sheds and stables.

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



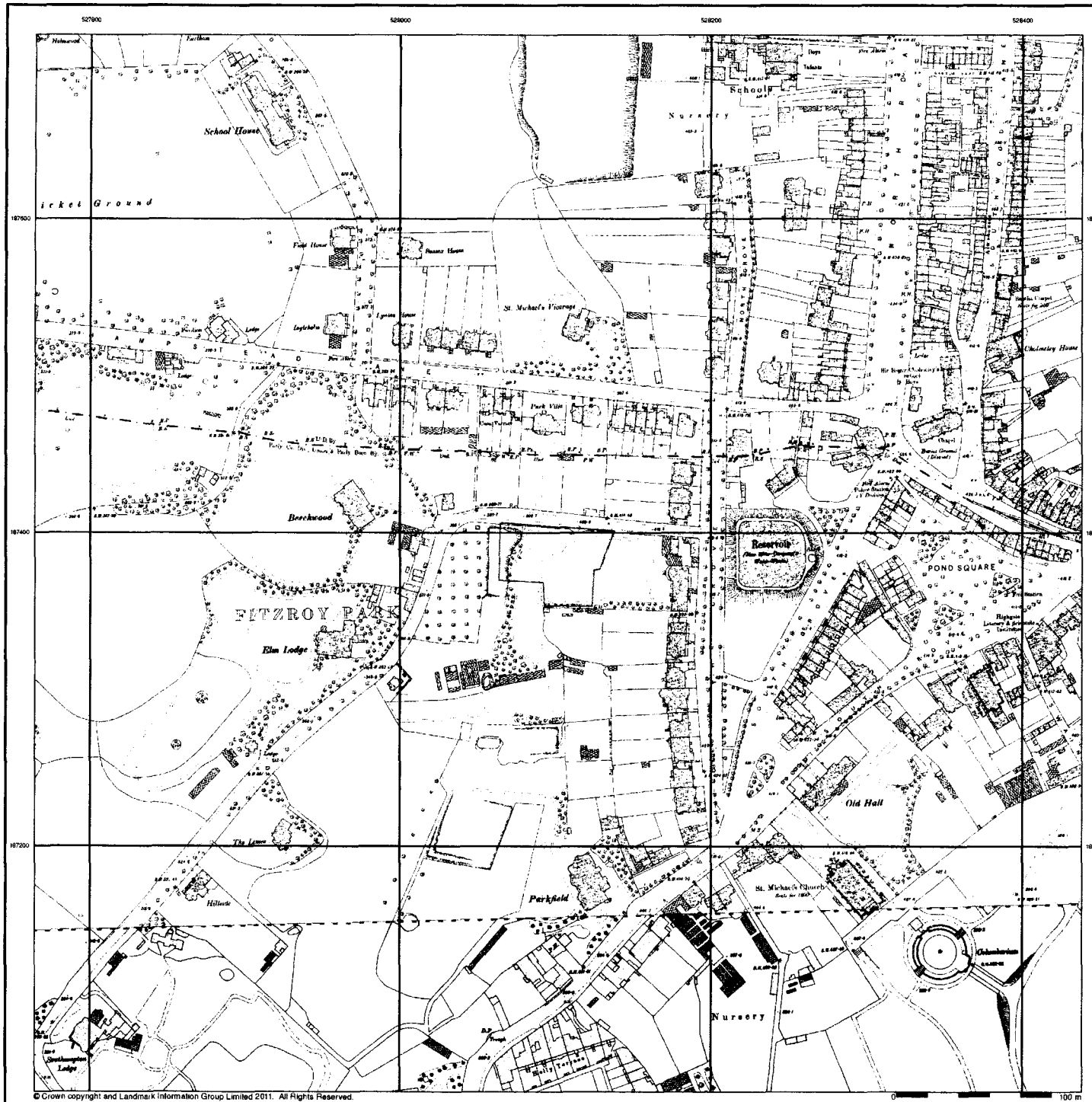
Order Details

Order Number:	36810138_1_1
Customer Ref:	1099
National Grid Reference:	528100, 187380
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	0

Site Details

6 Fitzroy Park, LONDON, N6 6HP

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



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LUSTRE CONSULTING

London

Published 1895

Source map scale - 1:1,056

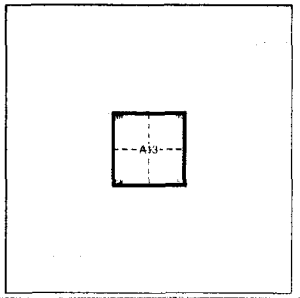
The 1:1056 scale of Ordnance Survey mapping was adopted from Ireland in 1848 and was used to survey towns with a population of over 4000, plus county towns of lesser population, in those counties mapped at the six-inch scale in 1841-55. The scale was the largest scale at which London was mapped by the 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)

003_00_071
1895
1:1,056

Historical Town Plan - Segment A13



Order Details

Order Number:	36810138_1_1
Customer Ref:	1099
National Grid Reference:	528100, 187380
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	0

Site Details

6 Fitzroy Park, LONDON, N6 6HP

Landmark
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LUSTRE CONSULTING

London

Published 1937

Source map scale - 1:1,056

The 1:1056 scale of Ordnance Survey mapping was adopted from Ireland in 1846 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.

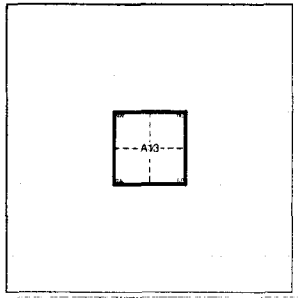
Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)

003_00_061
1937
1:1,056

003_00_071
1937
1:1,056

Historical Town Plan - Segment A13



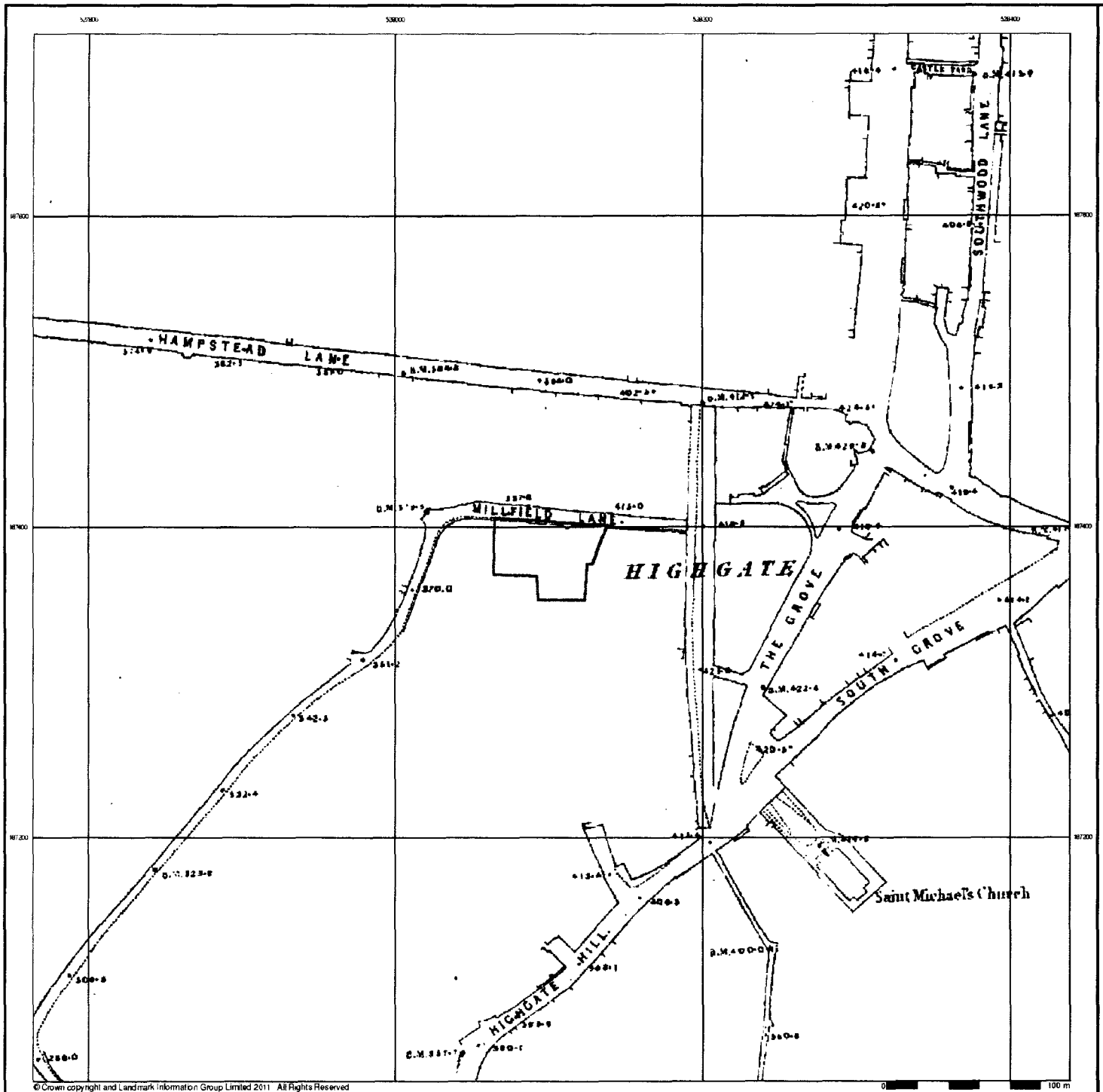
Order Details

Order Number:	36810138_1_1
Customer Ref:	1099
National Grid Reference:	528100, 187380
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	0

Site Details

6 Fitzroy Park, LONDON, N6 6HP

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



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London
Published 1850
Source map scale - 1:5,280

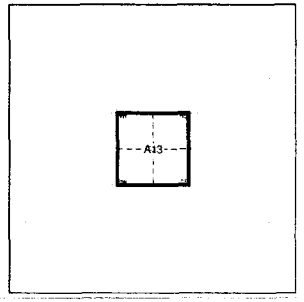
The historical town plans shown derive from Ordnance Survey mapping from the early to mid 1850s. The 1:2640 scale was introduced in the early 1850s, to survey districts covered by the Local Boards of Health and for a map of the Osborne Estate of Queen Victoria. The general style is similar to that of the early 1:2500s published shortly afterwards.
1:5280 scale was surveyed shortly afterwards in the mid 1850s as general purpose mapping with a standard of content similar to the more contemporary 1:10,560 mapping. The scale was also used for a reduction of the 1:1056 'skeleton survey' of London that was undertaken between 1848 and 1850.

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)

003_00_000_SW
1850
1:5280

Historical Town Plan - Segment A13



Order Details

Order Number:	36810138_1_1
Customer Ref:	1099
National Grid Reference:	528100, 187380
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	0

Site Details

6 Fitzroy Park, LONDON, N6 6HP

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

Appendix D

Asset Location Search

Thames Water Property Searches
12 Vastern Road
READING
RG1 8DB

Search address supplied
6
Fitzroy Park
London
N6 6HP

Your reference 0037 - Fitzroy Park, London
Our reference ALS/ALS Standard/2011_2129508

Search date 24 November 2011

You are now able to order your Asset Location Search requests online by visiting
www.thameswater-propertysearches.co.uk

Thames Water Utilities Ltd

Property Searches
PO Box 3189
Slough SL1 4WW

DX 151280 Slough 13

T 0118 925 1504
F 0118 923 6655/57
E searches@thameswater.co.uk
I www.thameswater-propertysearches.co.uk

Registered in England and Wales
No. 2366661, Registered office
Clearwater Court, Vastern Road
Reading RG1 8DB

Asset Location Search

Search address supplied: 6, Fitzroy Park, London, N6 6HP

Dear Sir / Madam

An Asset Location Search is recommended when undertaking a site development. It is essential to obtain information on the size and location of clean water and sewerage assets to safeguard against expensive damage and allow cost-effective service design.

This search provides maps showing the position, size of Thames Water assets close to the proposed development and also manhole cover and invert levels, where available.

Please note that none of the charges made for this report relate to the provision of Ordnance Survey mapping information. The replies contained in this letter are given following inspection of the public service records available to this company. No responsibility can be accepted for any error or omission in the replies.

You should be aware that the information contained on these plans is current only on the day that the plans are issued. The plans should only be used for the duration of the work that is being carried out at the present time. Under no circumstances should this data be copied or transmitted to parties other than those for whom the current work is being carried out.

Thames Water do update these service plans on a regular basis and failure to observe the above conditions could lead to damage arising to new or diverted services at a later date.

Contact Us

If you have any further queries regarding this enquiry please feel free to contact a member of the team on 0118 925 1504, or use the address below:

Thames Water Utilities Ltd
Property Searches
PO Box 3189
Slough
SL1 4WW

Tel: 0118 925 1504
Fax: 0118 923 6657

Email: searches@thameswater.co.uk
Web: www.thameswater-propertysearches.co.uk

Thames Water Utilities Ltd

Property Searches
PO Box 3189
Slough SL1 4WW

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E searches@thameswater.co.uk
I www.thameswater-propertysearches.co.uk

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Clearwater Court, Vastern Road
Reading RG1 8DB

Asset Location Search

Waste Water Services

Please provide a copy extract from the public sewer map.

Enclosed is a map showing the approximate lines of our sewers. Our plans do not show sewer connections from individual properties or any sewers not owned by Thames Water unless specifically annotated otherwise. Records such as "private" pipework are in some cases available from the Building Control Department of the relevant Local Authority.

Where the Local Authority does not hold such plans it might be advisable to consult the property deeds for the site or contact neighbouring landowners.

This report relates only to sewerage apparatus of Thames Water Utilities Ltd, it does not disclose details of cables and or communications equipment that may be running through or around such apparatus.

The sewer level information contained in this response represents all of the level data available in our existing records. Should you require any further Information, please refer to the relevant section within the 'Further Contacts' page found later in this document.

For your guidance:

- The Company is not generally responsible for rivers, watercourses, ponds, culverts or highway drains. If any of these are shown on the copy extract they are shown for information only.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an 'as constructed' record. It is recommended these details be checked with the developer.

Clean Water Services

Please provide a copy extract from the public water main map.

Enclosed is a map showing the approximate positions of our water mains and associated apparatus. Please note that records are not kept of the positions of individual domestic supplies.

For your information, there will be a pressure of at least 10m head at the outside stop valve. If you would like to know the static pressure, please contact our Customer Centre on 0845 920 0800. The Customer Centre can

Thames Water Utilities Ltd

Property Searches
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I www.thameswater-propertysearches.co.uk

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Reading RG1 8DB

Asset Location Search

also arrange for a full flow and pressure test to be carried out for a fee.

For your guidance:

- Assets other than vested water mains may be shown on the plan, for information only.
- If an extract of the public water main record is enclosed, this will show known public water mains in the vicinity of the property. It should be possible to estimate the likely length and route of any private water supply pipe connecting the property to the public water network.

Payment for this Search

A charge will be added to your suppliers account.

Thames Water Utilities Ltd

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Slough SL1 4WW

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I www.thameswater-propertysearches.co.uk

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Clearwater Court, Vastern Road
Reading RG1 8DB

Asset Location Search

Further contacts:

Waste Water queries

Should you require verification of the invert levels of public sewers, by site measurement, you will need to approach the relevant Thames Water Area Network Office for permission to lift the appropriate covers. This permission will usually involve you completing a TWOSA form. For further information please contact our Customer Centre on Tel: 0845 920 0800. Alternatively, a survey can be arranged, for a fee, through our Customer Centre on the above number.

If you have any questions regarding sewer connections, building over issues or any other questions regarding operational issues please direct them to our service desk. Which can be contacted by writing to:

Developer Services (Waste Water)
Thames Water
Clear Water Court
Vastern Road
Reading
RG1 8DB

Tel: 0845 850 2777
Fax: 0118 923 6613
Email: developer.services@thameswater.co.uk

Should you require any further information regarding budget estimates, diversions or stopping up notices then please contact:

DevCon Team
Asset Investment
Thames Water
Maple Lodge STW
Denham Way
Rickmansworth
Hertfordshire
WD3 9SQ

Tel: 01923 898 072
Fax: 01923 898 106
Email: devcon.team@thameswater.co.uk

Thames Water Utilities Ltd

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I www.thameswater-propertysearches.co.uk

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No. 2366661, Registered office
Clearwater Court, Vastern Road
Reading RG1 8DB

Asset Location Search

Clean Water queries

Should you require any advice concerning clean water operational issues or clean water connections, please contact our Kew Service Desk by writing to:

Clean Water Design
Thames Water Utilities
1 Kew Bridge Road
Brentford
Middlesex
TW8 0EF

Tel: 0845 850 2777
Fax: 0208 213 8833
Email: developer.services@thameswater.co.uk

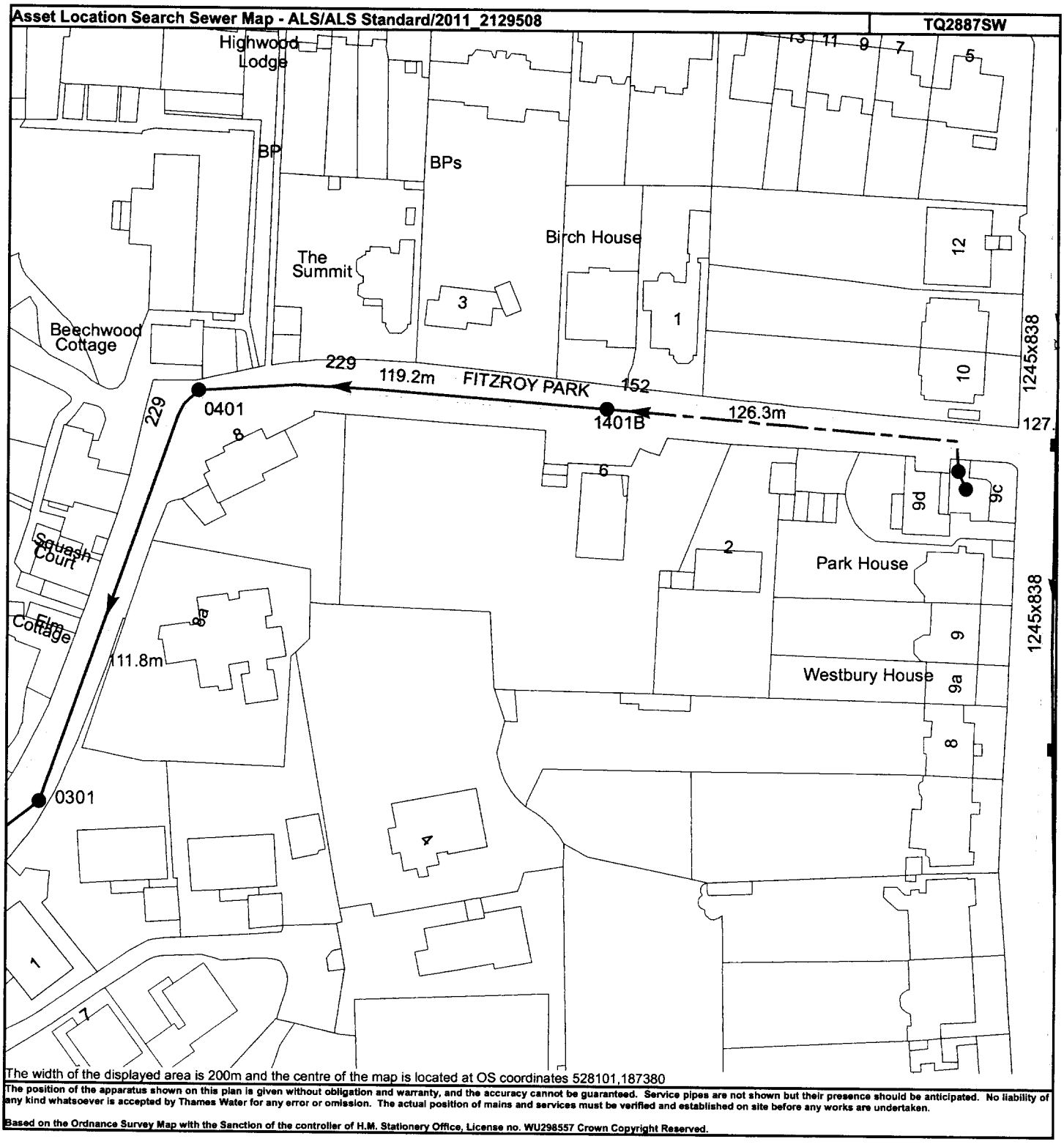
Thames Water Utilities Ltd

Property Searches
PO Box 3189
Slough SL1 4WW

DX 151280 Slough 13

T 0118 925 1504
F 0118 923 6655/57
E searches@thameswater.co.uk
I www.thameswater-propertysearches.co.uk

Registered in England and Wales
No. 2366661, Registered office
Clearwater Court, Vastern Road
Reading RG1 8DB


Asset Location Search Sewer Map - ALS/ALS Standard/2011_2129508
TQ2887SW
Highwood Lodge
BP
BPs
Birch House
The Summit
Beechwood Cottage
229
119.2m
FITZROY PARK
152
126.3m
1401B
0401
229
0301
111.8m
Squash Court
Fire Cottage
Park House
Westbury House
1245x838
1245x838
127
The width of the displayed area is 200m and the centre of the map is located at OS coordinates 528101,187380
The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.
Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. WU298557 Crown Copyright Reserved.

NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
0401	115.91	113.43
0301	n/a	n/a
1401B	124.05	120.49
1302	n/a	n/a
-	-	-
1301	n/a	n/a

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

ALS Sewer Map Key

Public Sewer Types (Operated & Maintained by Thames Water)

Foul: A sewer designed to convey waste water from domestic and industrial sources to a treatment works.

Surface Water: A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.

Combined: A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.

- Trunk Surface Water
- Trunk Foul
- Storm Relief
- Trunk Combined
- Vent Pipe
- Bio-solids (Sludge)
- Proposed Thames Surface Water Sewer
- Proposed Thames Water Foul Sewer
- Gallery
- Foul Rising Main
- Surface Water Rising Main
- Combined Rising Main
- Sludge Rising Main
- Proposed Thames Water Rising Main
- Vacuum

Sewer Fittings

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

- Air Valve
- Dam Chase
- Fitting
- Meter
- Vent Column

Operational Controls

A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.

- Control Valve
- Drop Pipe
- Ancillary
- Weir

End Items

End symbols appear at the start or end of a sewer pipe. Examples: an Undefined End at the start of a sewer indicates that Thames Water has no knowledge of the position of the sewer upstream of that symbol, Outfall on a surface water sewer indicates that the pipe discharges into a stream or river.

- Outfall
- Undefined End
- Inlet

Other Symbols

Symbols used on maps which do not fall under other general categories

- Public/Private Pumping Station
- Change of characteristic indicator (C.O.C.I.)
- Invert Level
- Summit

Areas

Lines denoting areas of underground surveys, etc.

- Agreement
- Operational Site
- Chamber
- Tunnel
- Conduit Bridge

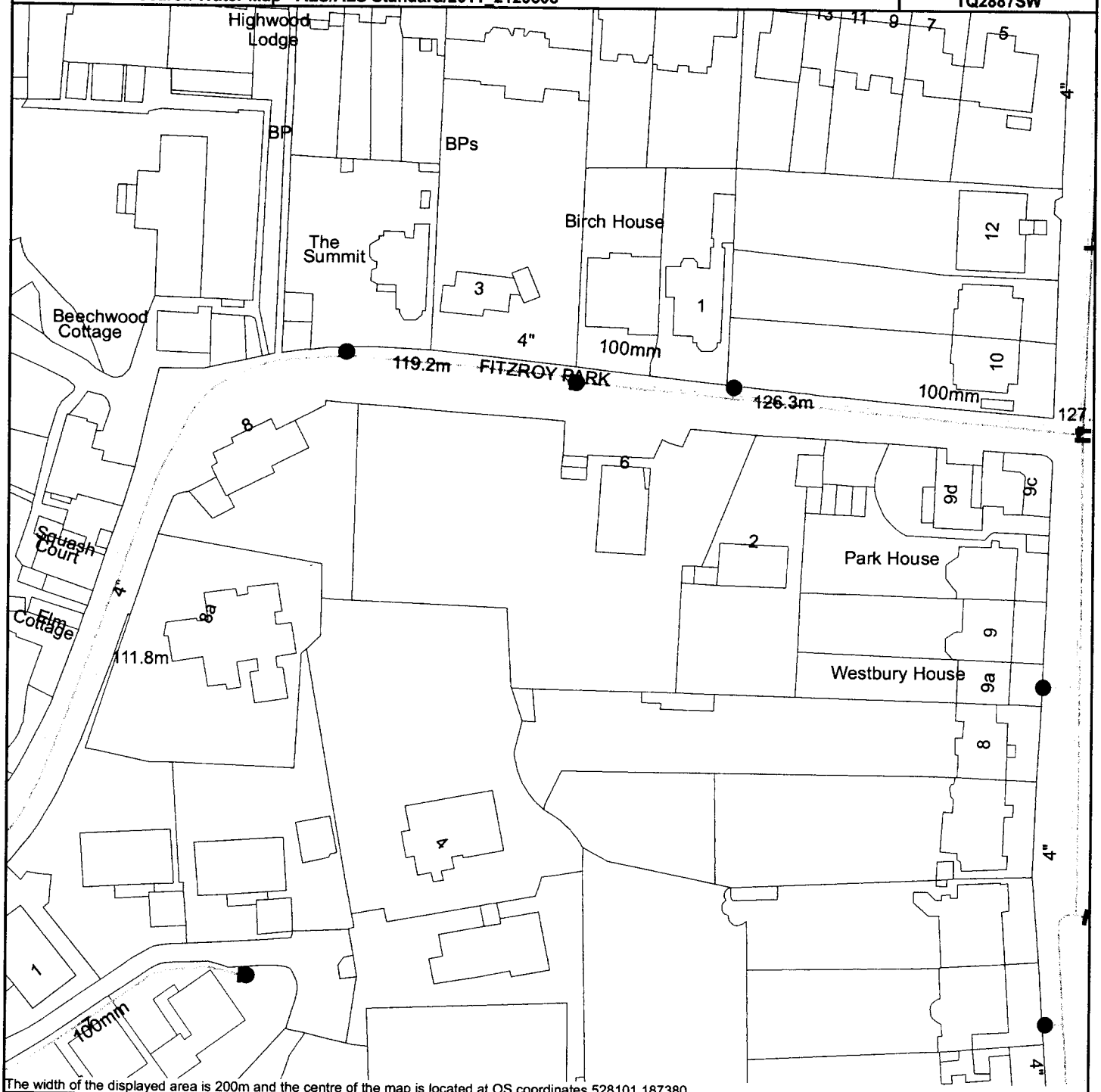
Other Sewer Types (Not Operated or Maintained by Thames Water)

- Foul Sewer
- Surface Water Sewer
- Combined Sewer
- Gulley
- Culverted Watercourse
- Proposed
- Abandoned Sewer

Notes:

1) All levels associated with the plans are to Ordnance Datum Newlyn.
2) All measurements on the plans are metric.
3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.
4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.
5) 'na' or '0' on a manhole level indicates that data is unavailable.
6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in milimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Searches on 0118 925 1504.

Asset Location Search Water Map - ALS/ALS Standard/2011_2129508 | **TQ2887SW**



The width of the displayed area is 200m and the centre of the map is located at OS coordinates 528101,187380

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

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ALS Water Map Key

Water Pipes (Operated & Maintained by Thames Water)

4" **Distribution Main:** The most common pipe shown on water maps. With few exceptions, domestic connections are only made to distribution mains.

16" **Trunk Main:** A main carrying water from a source of supply to a treatment plant or reservoir, or from one treatment plant or reservoir to another. Also a main transferring water in bulk to smaller water mains used for supplying individual customers.

3" SUPPLY **Supply Main:** A supply main indicates that the water main is used as a supply for a single property or group of properties.

3" FIRE **Fire Main:** Where a pipe is used as a fire supply, the word FIRE will be displayed along the pipe.

3" METERED **Metered Pipe:** A metered main indicates that the pipe in question supplies water for a single property or group of properties and that quantity of water passing through the pipe is metered even though there may be no meter symbol shown.

Transmission Tunnel: A very large diameter water pipe. Most tunnels are buried very deep underground. These pipes are not expected to affect the structural integrity of buildings shown on the map provided.

Proposed Main: A main that is still in the planning stages or in the process of being laid. More details of the proposed main and its reference number are generally included near the main.

PIPE DIAMETER	DEPTH BELOW GROUND
Up to 300mm (12")	900mm (3')
300mm - 600mm (12" - 24")	1100mm (3' 8")
600mm and bigger (24" plus)	1200mm (4')

Valves

- General Purpose Valve
- Air Valve
- Pressure Control Valve
- Customer Valve

Hydrants

- Single Hydrant

Meters

- Meter

End Items

Symbol indicating what happens at the end of a water main.

- Blank Flange
- Capped End
- Emptying Pit
- Undefined End
- Manifold
- Customer Supply
- Fire Supply

Operational Sites

- Booster Station
- Other
- Other (Proposed)
- Pumping Station
- Service Reservoir
- Shaft Inspection
- Treatment Works
- Unknown
- Water Tower

Other Symbols

- Data Logger

Other Water Pipes (Not Operated or Maintained by Thames Water)

Other Water Company Main: Occasionally other water company water pipes may overlap the border of our clean water coverage area. These mains are denoted in purple and in most cases have the owner of the pipe displayed along them.

Private Main: Indiates that the water main in question is not owned by Thames Water. These mains normally have text associated with them indicating the diameter and owner of the pipe.

Sewer Flooding
History Enquiry

Thames Water Property Searches
12
Vastern Road
Reading
RG1 8DB

Search address supplied 6
Fitzroy Park
London
N6 6HP

Your reference 0037 - Fitzroy Park, London

Our reference SFH_SFH_Standard_2011_2129510

Search date **24 November 2011**

Thames Water Utilities Ltd

Property Searches
PO Box 3189
Slough SL1 4WW

DX 151280 Slough 13

T 0118 925 1504
F 0118 923 6655/57
E searches@thameswater.co.uk
I www.thameswater-propertysearches.co.uk

Registered in England and Wales
No. 2366661, Registered office
Clearwater Court, Vastern Road
Reading RG1 8DB

Sewer Flooding
History Enquiry

Search address supplied: 6, Fitzroy Park, London, N6 6HP

This search is recommended to check for any sewer flooding in a specific address or area

TWUL, trading as Property Searches, are responsible in respect of the following: -

(i) any negligent or incorrect entry in the records searched;

(ii) any negligent or incorrect interpretation of the records searched;

(iii) and any negligent or incorrect recording of that interpretation in the search report

(iv) compensation payments

Thames Water Utilities Ltd

Property Searches
PO Box 3189
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No. 2366661, Registered office
Clearwater Court, Vastern Road
Reading RG1 8DB

Sewer Flooding
History Enquiry

History of Sewer Flooding

Is the requested address or area at risk of flooding due to overloaded public sewers?

The flooding records held by Thames Water indicate that there have been no incidents of flooding in the requested area as a result of surcharging public sewers.

Although Thames Water does not have records of public sewer flooding within the vicinity, please be aware that property owners are not legally obliged to report this flooding to Thames Water. In addition flooding from private sewers, watercourses and highways drains are not the responsibility of Thames Water, and such incidents may not be noted in our records. We therefore strongly advise you to contact the current owners and occupiers of the premises and inquire about sewer flooding.

For your guidance:

- A sewer is "overloaded" when the flow from a storm is unable to pass through it due to a permanent problem (e.g. flat gradient, small diameter). Flooding as a result of temporary problems such as blockages, siltation, collapses and equipment or operational failures are excluded.
- "Internal flooding" from public sewers is defined as flooding, which enters a building or passes below a suspended floor. For reporting purposes, buildings are restricted to those normally occupied and used for residential, public, commercial, business or industrial purposes.
- "At Risk" properties are those that the water company is required to include in the Regulatory Register that is presented annually to the Director General of Water Services. These are defined as properties that have suffered, or are likely to suffer, internal flooding from public foul, combined or surface water sewers due to overloading of the sewerage system more frequently than the relevant reference period (either once or twice in ten years) as determined by the Company's reporting procedure.
- Flooding as a result of storm events proven to be exceptional and beyond the reference period of one in ten years are not included on the At Risk Register.
- Properties may be at risk of flooding but not included on the Register where flooding incidents have not been reported to the Company.
- Public Sewers are defined as those for which the Company holds statutory responsibility under the Water Industry Act 1991.
- It should be noted that flooding can occur from private sewers and drains which are not the responsibility of the Company. This report excludes flooding from private sewers and drains and the Company makes no comment upon this matter.
- For further information please contact Thames Water on Tel: 0845 9200 800 or website www.thameswater.co.uk

Thames Water Utilities Ltd

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No. 2366661, Registered office
Clearwater Court, Vastern Road
Reading RG1 8DB

Appendix E

Enter a postcode or place name: N6 6HP Go

Other topics for this area... Risk of Flooding from Rivers and Sea

Risk of Flooding from Rivers and Sea

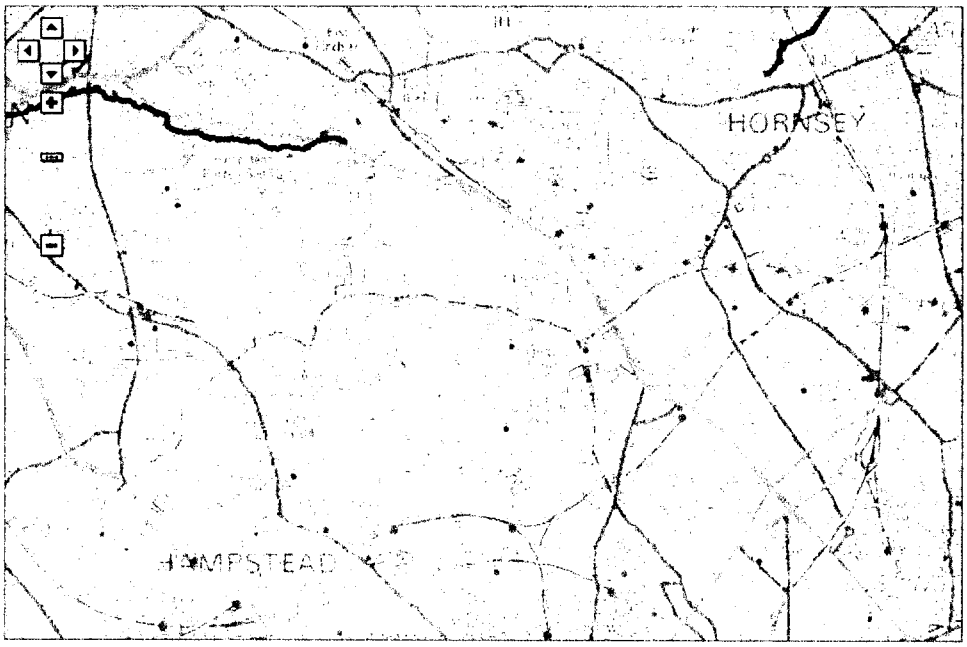
Map legend

Click on the map to see what is the Risk of Flooding at a particular location.

- Flood Maps
  - Flooding from rivers or sea without defences
  - Extent of extreme flood
  - Flood defences
  - Areas benefiting from flood defences
  - Main rivers

Map of N6 6HP at scale 1:40,000

Text only version



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Flood Map – Information Warnings

Manchester Ship Canal

Flood Mapping of the Manchester Ship Canal in Trafford, Salford and Warrington may be subject to revision as a result of representations. For further information please contact the Environment Agency on 03708 506 506.
Users of the Flood Zone Map should be aware that we have received a Judicial review challenge to the mapping of the Manchester Ship Canal at Trafford, Salford and Warrington on the ground that the preparation of the map is flawed In respect of our consideration of the role of the sluice gates in preventing flooding.
We are defending the challenge and believe and are advised that it is ill-founded. Nevertheless, pending determination of the challenge, users of the map need to consider whether the existence of the Challenge, and the basis of it, affects the weight they judge may be given to the zoning of the Manchester Ship Canal within the Flood Map.

More about flooding:

Understanding the flood map

A more detailed explanation to help you understand the flood map shown above.

Current flood warnings

We provide flood warnings online 24 hours a day. Find out the current flood warning status in your local area.

Flood map - your questions answered

Answers to commonly asked questions about the flood map.

creating a better place

Enter a postcode or place name: Go

Other topics for this area... Risk of Flooding from Reservoirs

Risk of Flooding from Reservoirs

Map legend

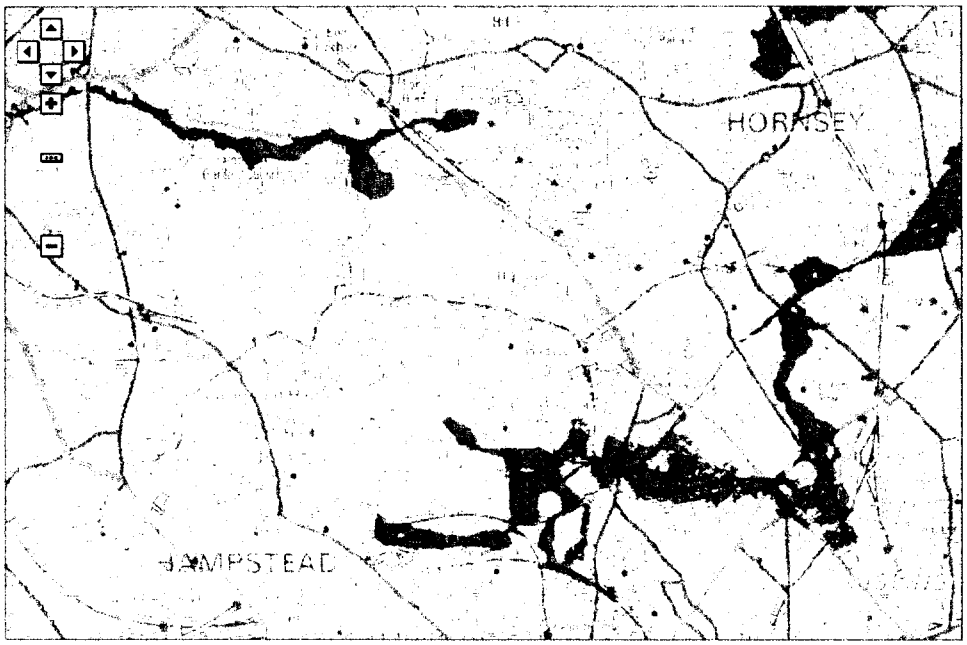
Click within the extent of flooding to see which reservoirs affect this area

Risk of Flooding from Reservoirs

Maximum extent of flooding

Map of X: 528,113; Y: 187,384 at scale 1:40,000

Text only version



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Find out more:

This map shows the largest area that might be flooded if a reservoir were to fail and release the water it holds. Since this is a prediction of a worst case scenario, it's unlikely that any actual flood would be this large.

Remember - reservoir flooding is extremely unlikely. There has been no loss of life in the UK from reservoir flooding since 1925. Since then reservoir safety legislation has been introduced to make sure reservoirs are well maintained.

Please note that only flood maps for large reservoirs are displayed. Flood maps are not displayed for smaller reservoirs or for reservoirs commissioned after reservoir mapping began in spring 2009. The reservoir flood maps also don't give any information about how likely any area is to be flooded.

If your property is within the green highlighted area, then you could be affected by reservoir flooding. To find out more about the reservoirs that could cause this flooding, click on the map within the green highlighted area. You will find the name and ownership details of the reservoirs that could cause flooding in your area.

If you want to find out about local emergency plans you should contact the local authority responsible for that emergency plan but be aware that these reservoir flood plans may take some time to develop. You can find out which local authority to contact by clicking on the map.

Reservoir flooding

Guidance for people living near reservoirs

Your questions answered

Who to contact

creating a better place

Appendix F

	Project No: 0037	Sheet: 1 of 4
POTAMOS CONSULTING	Project Title: 6 Fitzroy Park, Highgate, London	
	Engineer: LH	Date: 01/12/2011

Modified Rational (Wallingford) Method

1) Determine the 5 year 60 minute rainfall depth (m5-60) for the site location from Figure A.1 of the Rational Method

m5-60 = 21mm

Determine the ratio (r) of the 5 year 60 minute rainfall depth (m5-60) to the 5 year 2 day rainfall depth for the site location from Figure A.2 of the Rational Method

r = 0.4

2) Determine the rainfall depths in the 5 year return period event for all required storm durations (m5-D) from m5-D = Z1 (m5-60). Z1 is obtained from Figures A3.a and A3.b of the Rational Method

m5-5	Z1 = 0.36	m5-5 = 21 x 0.36 = 7.56mm
m5-15	Z1 = 0.64	m5-15 = 21 x 0.64 = 13.44mm
m5-30	Z1 = 0.79	m5-30 = 21 x 0.79 = 16.59mm
m5-60	Z1 = 1.00	m5-60 = 21 x 1.00 = 21.00mm

The calculation of peak runoff for storm durations up to 6 hours (m5-360) is desirable, however insufficient Z2 data (see below) is provided within the Rational Method to permit this and the use of FEH data is ill-advised for site specific assessments

3) Convert the 5 year rainfall depths to rainfall depths for all required return period events (mT-D) from MT-D = Z2 (m5-D). Z2 is obtained from Tables A1 and A2 of the Rational Method

m1-5	Z2 = 0.61	m1-5 = 7.56 x 0.61 = 4.61mm
m1-15	Z2 = 0.62	m1-15 = 13.44 x 0.62 = 8.33mm
m1-30	Z2 = 0.63	m1-30 = 16.59 x 0.63 = 10.45mm
m1-60	Z2 = 0.64	m1-60 = 21.00 x 0.64 = 13.44mm
m5-5	Z2 = 1.03	m5-5 = 7.56 x 1.03 = 7.79mm
m5-15	Z2 = 1.03	m5-15 = 13.44 x 1.03 = 13.84mm
m5-30	Z2 = 1.03	m5-30 = 16.59 x 1.03 = 17.09mm
m5-60	Z2 = 1.03	m5-60 = 21.00 x 1.03 = 21.63mm
m30-5	Z2 = 1.46	m30-5 = 7.56 x 1.46 = 11.04mm
m30-15	Z2 = 1.52	m30-15 = 13.44 x 1.52 = 20.43mm
m30-30	Z2 = 1.53	m30-30 = 16.59 x 1.53 = 25.38mm
m30-60	Z2 = 1.55	m30-60 = 21.00 x 1.55 = 32.55mm

m100-5	Z2 = 1.85	m100-5 = 7.56 x 1.85 = 13.99mm
m100-15	Z2 = 1.97	m100-15 = 13.44 x 1.97 = 26.48mm
m100-30	Z2 = 2.00	m100-30 = 16.59 x 2.00 = 33.18mm
m100-60	Z2 = 2.03	m100-60 = 21.00 x 2.03 = 42.63mm

4) Convert the rainfall depths into point intensities using the equation:

$$\frac{i = mT-D}{D}$$

where:

i = point intensity
T = return period
D = storm duration

m1-5 = 4.61/(5/60) = 55.32mm/hr
m1-15 = 8.33/(15/60) = 33.32mm/hr
m1-30 = 10.45/(30/60) = 20.90mm/hr
m1-60 = 13.44/(60/60) = 13.44mm/hr

m5-5 = 7.79/(5/60) = 93.48mm/hr
m5-15 = 13.84/(15/60) = 55.36mm/hr
m5-30 = 17.09/(30/60) = 34.18mm/hr
m5-60 = 21.63/(60/60) = 21.63mm/hr

m30-5 = 11.04/(5/60) = 132.48mm/hr
m30-15 = 20.43/(15/60) = 81.72mm/hr
m30-30 = 25.38/(30/60) = 50.76mm/hr
m30-60 = 32.55/(60/60) = 32.55mm/hr

m100-5 = 13.99/(5/60) = 167.88mm/hr
m100-15 = 26.48/(15/60) = 105.92mm/hr
m100-30 = 33.18/(30/60) = 66.36mm/hr
m100-60 = 42.63/(60/60) = 42.63mm/hr

5) Apply an aerial reduction factor (if required) to the rainfall using Figure A.4 of the Rational Method based on the site area of 2,800m^2 (0.002km2 0.28ha). Aerial reduction factors are only required for sites over 1km^2 in area and hence will not be applied to the rainfall intensities calculated above.

6) Adjust the peak rainfall intensities for the anticipated effects of climate change. This is done in line with the recommendations given in Appendix B of Planning Policy Statement 25 (PPS25) (Communities and Local Government 2006, updated 2010) which suggests an increase in peak rainfall intensity of 30% between 2085 and 2115, appropriate to the 100 year design lifetime of the development

	Project No: 0037	Sheet: 3 of 4
DYNAMIC CONSULTING	Project Title: 6 Fitzroy Park, Highgate, London	
	Engineer: LH	Date: 01/12/2011

m1-5 = 55.32 x 1.3 = 71.92mm/hr
m1-15 = 33.32 x 1.3 = 43.32mm/hr
m1-30 = 20.90 x 1.3 = 22.17mm/hr
m1-60 = 13.44 x 1.3 = 17.47mm/hr

m5-5 = 93.48 x 1.3 = 121.52mm/hr
m5-15 = 55.36 x 1.3 = 71.97mm/hr
m5-30 = 34.18 x 1.3 = 44.43mm/hr
m5-60 = 21.63 x 1.3 = 28.12mm/hr

m30-5 = 132.48 x 1.3 = 172.22mm/hr
m30-15 = 81.72 x 1.3 = 106.24mm/hr
m30-30 = 50.76 x 1.3 = 65.99mm/hr
m30-60 = 32.55 x 1.3 = 42.32mm/hr

m100-5 = 167.88 x 1.3 = 218.24mm/hr
m100-15 = 105.92 x 1.3 = 137.70mm/hr
m100-30 = 66.36 x 1.3 = 86.27mm/hr
m100-60 = 42.63 x 1.3 = 55.42mm/hr

7) Calculate the existing peak runoff rates using the equation:

$Q = 2.78\ CiA$

where:
Q = peak discharge (l/s)
$C_v = 0.7$ (moderately permeable soils)
C = dimensionless coefficient where $C = C_v \times C_R$
i = rainfall intensity (mm/hr)
$C_R = 1.30$ (recommended value)
A = contributing catchment area (ha)

The contributing catchment area comprises approximately $636m^2$ (0.0636ha) of existing impermeable roof and hardstanding areas.

m1-5 = 2.78 x 0.7 x 1.3 x 71.92 x 0.0636 = 11.57 l/s
m1-15 = 2.78 x 0.7 x 1.3 x 43.32 x 0.0636 = 6.97 l/s
m1-30 = 2.78 x 0.7 x 1.3 x 22.17 x 0.0636 = 3.57 l/s
m1-60 = 2.78 x 0.7 x 1.3 x 17.47 x 0.0636 = 2.81 l/s

m5-5 = 2.78 x 0.7 x 1.3 x 121.52 x 0.0636 = 19.55 l/s
m5-15 = 2.78 x 0.7 x 1.3 x 71.97 x 0.0636 = 11.58 l/s
m5-30 = 2.78 x 0.7 x 1.3 x 44.43 x 0.0636 = 7.15 l/s
m5-60 = 2.78 x 0.7 x 1.3 x 28.12 x 0.0636 = 4.52 l/s

	Project No: 0034	Sheet: 4 of 4
POTAMOS CONSULTING	Project Title: 6 Fitzroy Park, Highgate, London	
	Engineer: LH	Date: 01/12/2011

m30-5 = 2.78 x 0.7 x 1.3 x 172.22 x 0.0636 = 27.71 l/s
m30-15 = 2.78 x 0.7 x 1.3 x 106.24 x 0.0636 = 17.09 l/s
m30-30 = 2.78 x 0.7 x 1.3 x 65.99 x 0.0636 = 10.62 l/s
m30-60 = 2.78 x 0.7 x 1.3 x 42.32 x 0.0636 = 6.81 l/s

m100-5 = 2.78 x 0.7 x 1.3 x 218.24 x 0.0636 = 35.11 l/s
m100-15 = 2.78 x 0.7 x 1.3 x 137.70 x 0.0636 = 22.16 l/s
m100-30 = 2.78 x 0.7 x 1.3 x 86.27 x 0.0636 = 13.88 l/s
m100-60 = 2.78 x 0.7 x 1.3 x 55.42 x 0.0636 = 8.92 l/s

8) Calculate the post-development peak runoff rates using the equation:

$Q = 2.78\ CiA$

where:
Q = peak discharge (l/s)
C_v = 0.7 (moderately permeable soils)
C = dimensionless coefficient where $C = C_v \times C_R$
i = rainfall intensity (mm/hr)
C_R = 1.30 (recommended value)
A = contributing catchment area (ha)

The contributing catchment area comprises approximately 636m^2 (0.0636ha) of existing impermeable areas and 39m^2 (0.0039ha) of proposed new impermeable area. This gives a total post-development contributing area of 675m^2 (0.0675ha).

m1-5 = 2.78 x 0.7 x 1.3 x 71.92 x 0.0675 = 12.28 l/s
m1-15 = 2.78 x 0.7 x 1.3 x 43.32 x 0.0675 = 7.40 l/s
m1-30 = 2.78 x 0.7 x 1.3 x 22.17 x 0.0675 = 3.79 l/s
m1-60 = 2.78 x 0.7 x 1.3 x 17.47 x 0.0675 = 2.98 l/s

m5-5 = 2.78 x 0.7 x 1.3 x 121.52 x 0.0675 = 20.75 l/s
m5-15 = 2.78 x 0.7 x 1.3 x 71.97 x 0.0675 = 12.29 l/s
m5-30 = 2.78 x 0.7 x 1.3 x 44.43 x 0.0675 = 7.59 l/s
m5-60 = 2.78 x 0.7 x 1.3 x 28.12 x 0.0675 = 4.80 l/s

m30-5 = 2.78 x 0.7 x 1.3 x 172.22 x 0.0675 = 29.41 l/s
m30-15 = 2.78 x 0.7 x 1.3 x 106.24 x 0.0675 = 18.14 l/s
m30-30 = 2.78 x 0.7 x 1.3 x 65.99 x 0.0675 = 11.27 l/s
m30-60 = 2.78 x 0.7 x 1.3 x 42.32 x 0.0675 = 7.23 l/s

m100-5 = 2.78 x 0.7 x 1.3 x 218.24 x 0.0675 = 37.27 l/s
m100-15 = 2.78 x 0.7 x 1.3 x 137.70 x 0.0675 = 23.51 l/s
m100-30 = 2.78 x 0.7 x 1.3 x 86.27 x 0.0675 = 14.73 l/s
m100-60 = 2.78 x 0.7 x 1.3 x 55.42 x 0.0675 = 9.46 l/s

IoH 124 Calculation of Greenfield Runoff

Project: 6 Fitzroy Park, Highgate, London, N6 6HP
Date: 02/12/2011

SAAR: 682mm — Taken from FEH CD-ROM Version 3 and checked against Wallingford Procedure Volume 3 Map: Average Annual Rainfall (1941-1970) mm

Site area: 50ha / 0.5km^2 — Always assumed to be 50ha with runoff rates adjusted pro-rata later for actual site area

Soil Type SPR value: 0.3 — Wallingford soil grading taken from Wallingford Procedure Volume 3 Map: Winter rain acceptance potential and converted to SPR value using the Flood Studies Report conversion table, also checked against FEH CD-ROM Version 3 SPRHOST value

Wallingford soil grading	SPR value from FSR
1	0.10
2	0.30
3	0.37
4	0.47
5	0.53

$QBAR = 0.00108 \times (AREA)^{0.89} \times (SAAR)^{1.17} \times (SOIL)^{2.17}$
$QBAR = 0.00108 \times 0.5^{0.89} \times 682^{1.17} \times 0.3^{2.17}$
QBAR (50ha) = 0.088m^3/s

Runoff as calculated from the Regional Growth Curve Factor for FSR Hydrological Region 6/7:

Region 6/7	Growth Factor
1	0.85
2	0.88
5	1.28
10	1.62
25	2.14
30	2.24
50	2.62
100	3.19

Q1 50ha = 0.075 m^3/s = 75.129 l/s = 1.503 l/s/ha
Q5 50ha = 0.113 m^3/s = 113.135 l/s = 2.263 l/s/ha
Q25 50ha = 0.189 m^3/s = 189.148 l/s = 3.783 l/s/ha
Q30 50ha = 0.198 m^3/s = 197.987 l/s = 3.960 l/s/ha
Q100 50ha = 0.282 m^3/s = 281.954 l/s = 5.639 l/s/ha

Runoff as factored for site

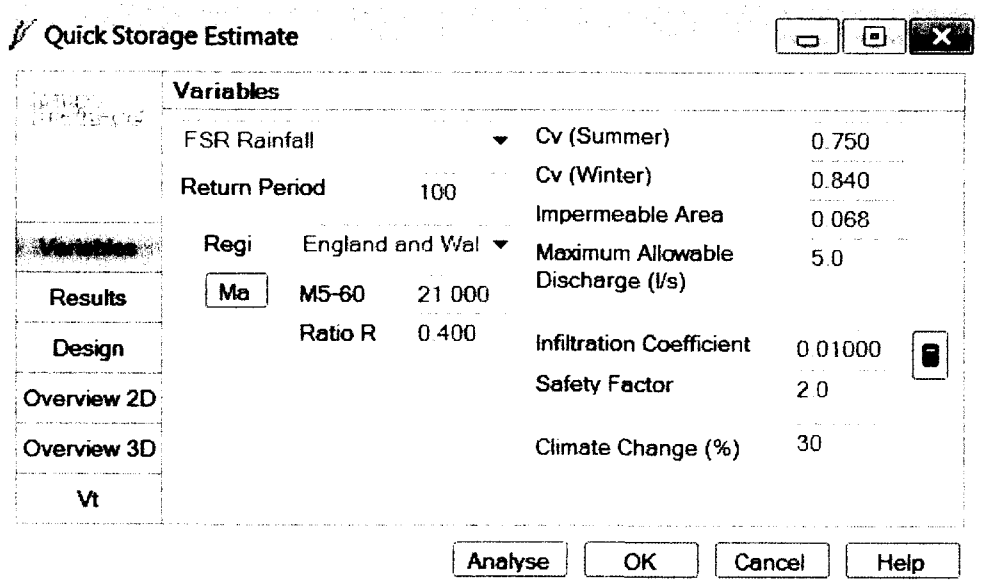
Actual site area: 0.28ha / 2,800m^2

QBAR Site = 0.0004 m3/s = 0.4 l/s = 1.578 l/s/ha
Q1 Site = 0.0004 m^3/s = 0.4 l/s = 1.503 l/s/ha
Q5 Site = 0.0006 m^3/s = 0.6 l/s =2.263 l/s/ha
Q25 Site = 0.0011 m^3/s = 1.1 l/s = 3.783 l/s/ha
Q30 Site = 0.0011 m^3/s = 1.1 l/s = 3.960 l/s/ha
Q100 Site = 0.0016 m^3/s = 1.6 l/s = 5.639 l/s/ha

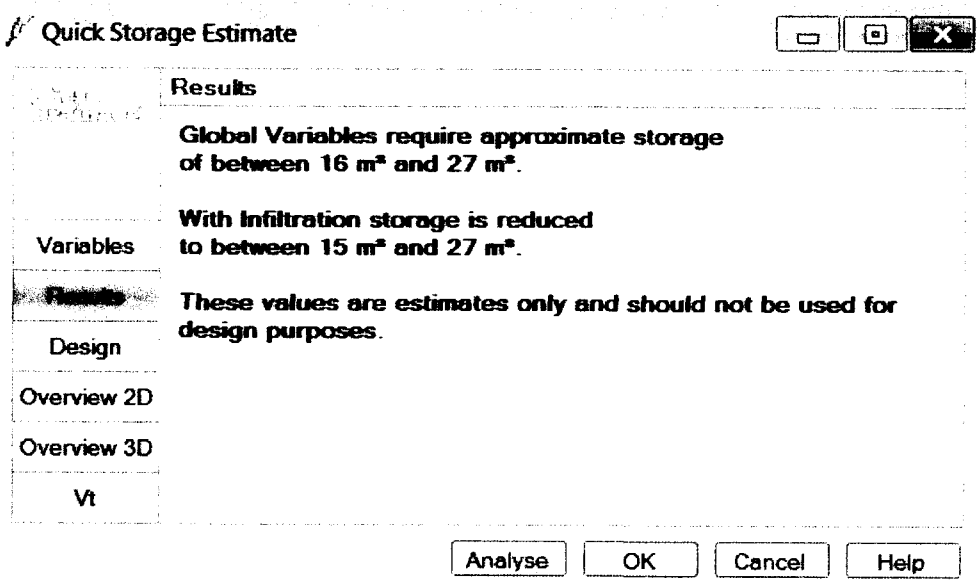
Note: For Greenfield sites, the critical duration is generally not relevent and the prediction of the peak rate of runoff using IoH124 does not require consideration of storm duration

Note: PPS 25 does not provide guidance on applying climate change to Greenfield runoff, only to peak rainfall intensities and river flows

MicroDrainage outputs



Enter Climate Change between -100 and 600

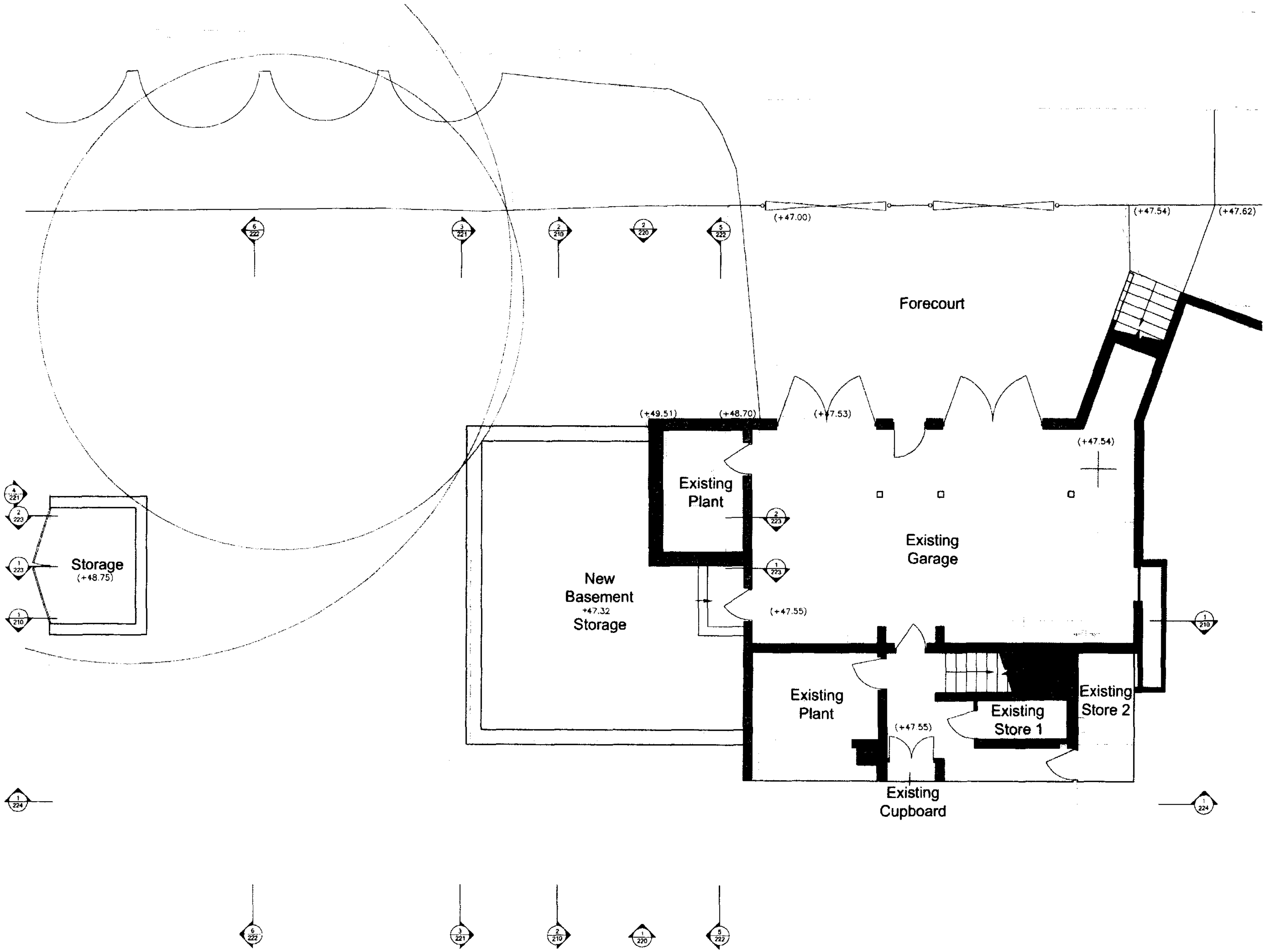


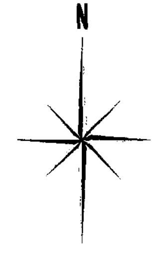
Enter Climate Change between -100 and 600

Appendix G

Note

Use figured dimensions only. All dimensions are to be checked on site and any discrepancies, errors or omissions are to be reported to the architect prior to commencement of works.





KEY:

Existing Wall

New Wall

Root Protection Area

(+4.890) Existing Level

+4.890 Proposed Level

Subject to detailed dimensional survey -Please note these drawings are based on existing drawings prepared by others. BB Partnership cannot be held responsible for any discrepancies and/or inaccuracy that may arise

ALL DIMENSIONS APPROXIMATE

SCHEME DESIGN SUBJECT TO STRUCTURAL ENGINEER /SERVICES ENGINEER, & PLANNERS COMMENT

PRELIMINARY
FOR COMMENT / DISCUSSION

BB PARTNERSHIP LTD
CHARTERED ARCHITECTS

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e-mail . architect@bbpartnership.co.uk

client	Mr. & Mrs. Message
project	6 Fitzroy Park Highgate N6 6HP
drawing	Basment Plan Proposed

date	scale	drawn by
Apr'12	1:100 @ A3	NM

drg.no.	rev.
ESW_301	

do not scale . check all dimensions on site ©

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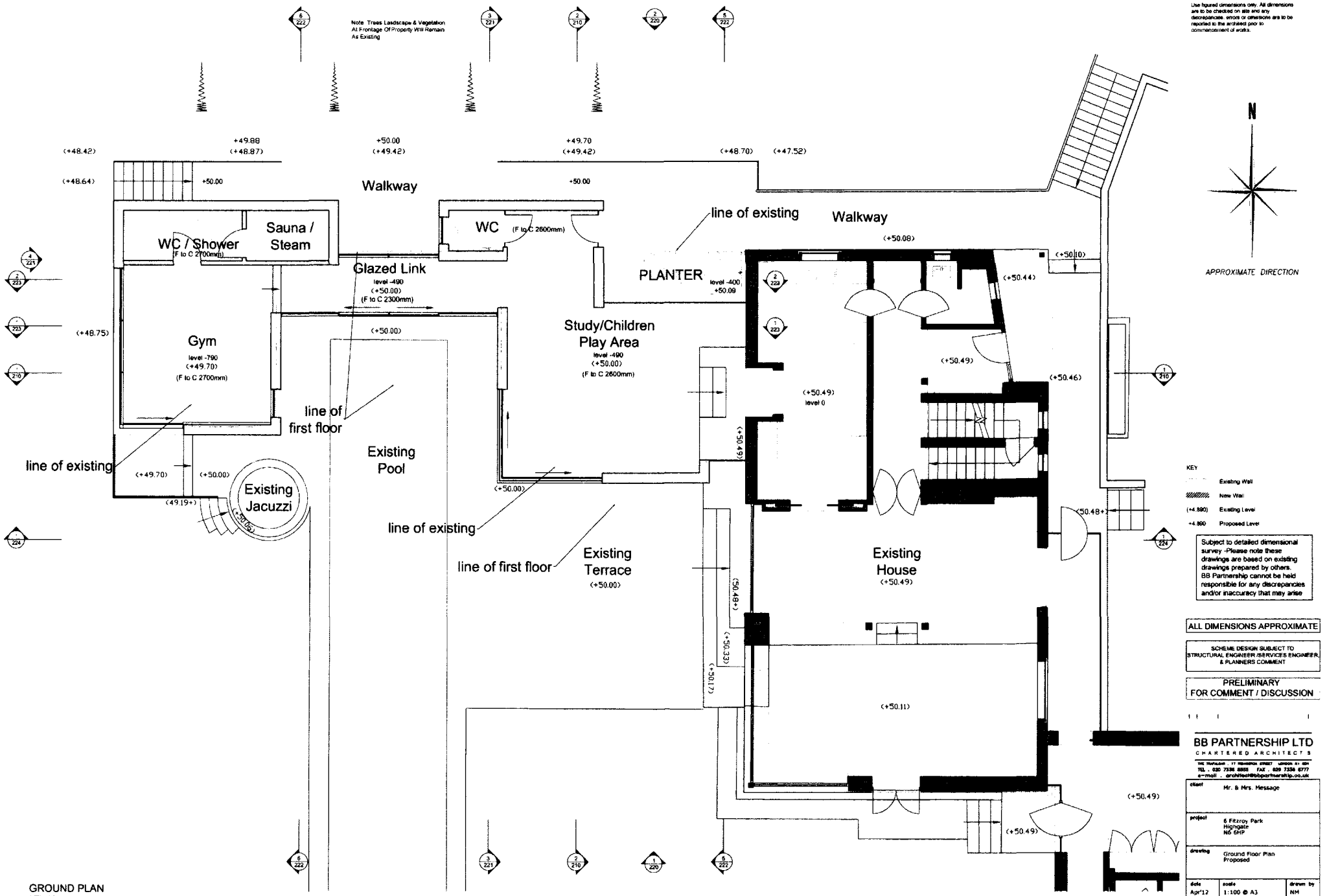
BASEMENT PLAN

SCALE

0 1 2 3 4 5 6 7 8 9 10 METRES



Note

Use figured dimensions only. All dimensions are to be checked on site and any discrepancies, errors or omissions are to be reported to the architect prior to commencement of works.

KEY

Existing Wall

New Wall

(+4.890) Existing Level

+4.890 Proposed Level

Subject to detailed dimensional survey -Please note these drawings are based on existing drawings prepared by others. BB Partnership cannot be held responsible for any discrepancies and/or inaccuracy that may arise

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SCHEME DESIGN SUBJECT TO STRUCTURAL ENGINEER /SERVICES ENGINEER & PLANNERS COMMENT

PRELIMINARY FOR COMMENT / DISCUSSION

GROUND PLAN

SCALE

0 1 2 3 4 5 6 7 8 9 10 METRES

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CHARTERED ARCHITECTS
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e-mail . architect@bbpartnership.co.uk

client: Mr. & Mrs. Message

project: 6 Fitzroy Park Highgate N6 6HP

drawing: Ground Floor Plan Proposed

date: Apr'12 | scale: 1:100 @ A3 | drawn by: NM

dwg.no.: ESW_302 | rev.

. check all dimensions on site

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Note

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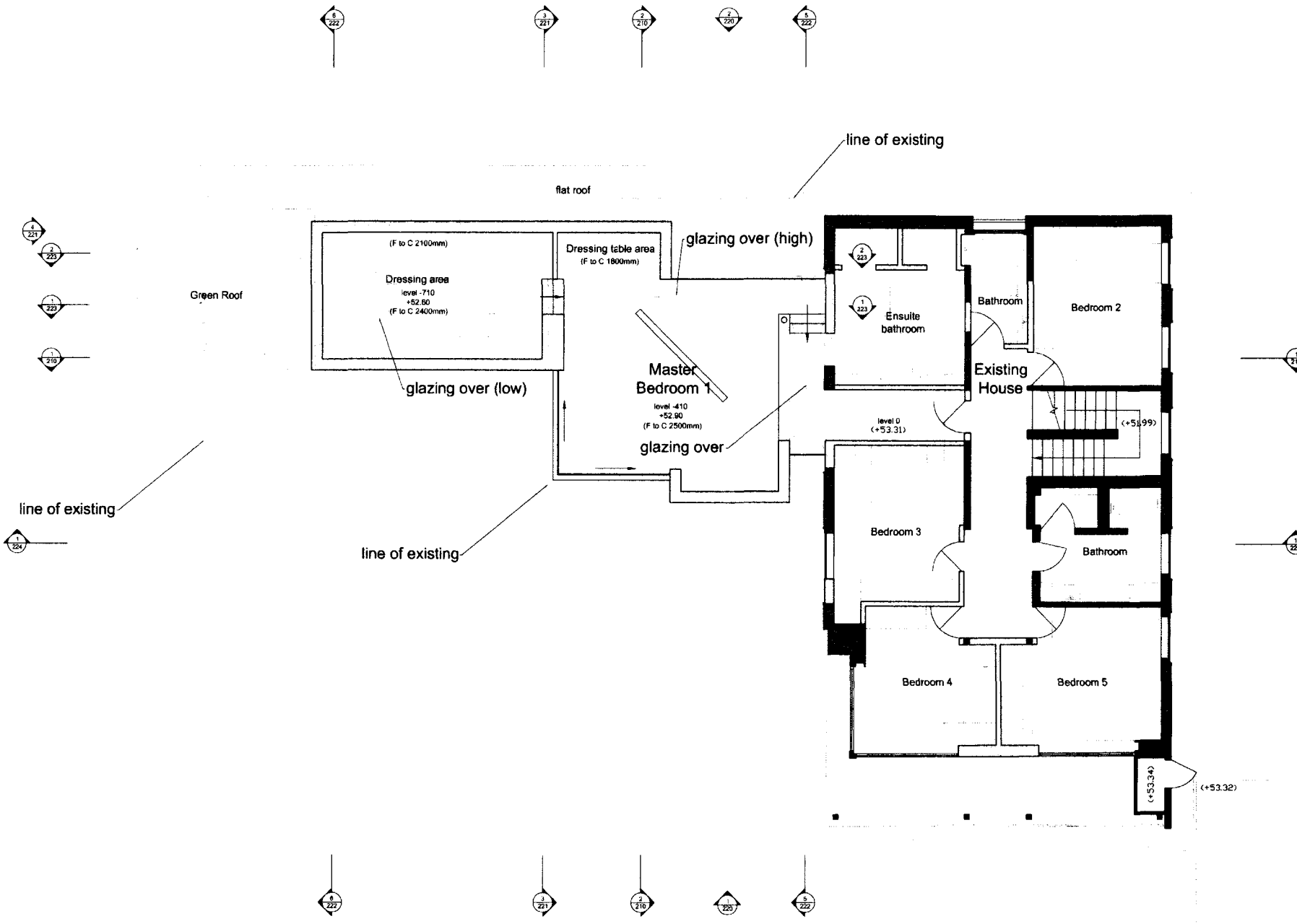

N

APPROXIMATE DIRECTION

KEY:

Existing Wall

New Wall

(+4.890) Existing Level

+4.890 Proposed Level

Subject to detailed dimensional survey -Please note these drawings are based on existing drawings prepared by others. BB Partnership cannot be held responsible for any discrepancies and/or inaccuracy that may arise

ALL DIMENSIONS APPROXIMATE

SCHEME DESIGN SUBJECT TO STRUCTURAL ENGINEER/SERVICES ENGINEER & PLANNERS COMMENT

PRELIMINARY FOR COMMENT / DISCUSSION

FIRST FLOOR PLAN

SCALE

0 1 2 3 4 5 6 7 8 9 10 METRES

BB PARTNERSHIP LTD

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THE TOWPATH 17 EDMONTON STREET LONDON N1 4BH

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client	Mr. & Mrs. Message
project	6 Fitzroy Park Highgate N6 6HP
drawing	First Floor Plan Proposed
date	Apr'12
scale	1:100 @ A3
drawn by	NM
drg.no.	ESW_303
rev.	

do not scale . check all dimensions on site

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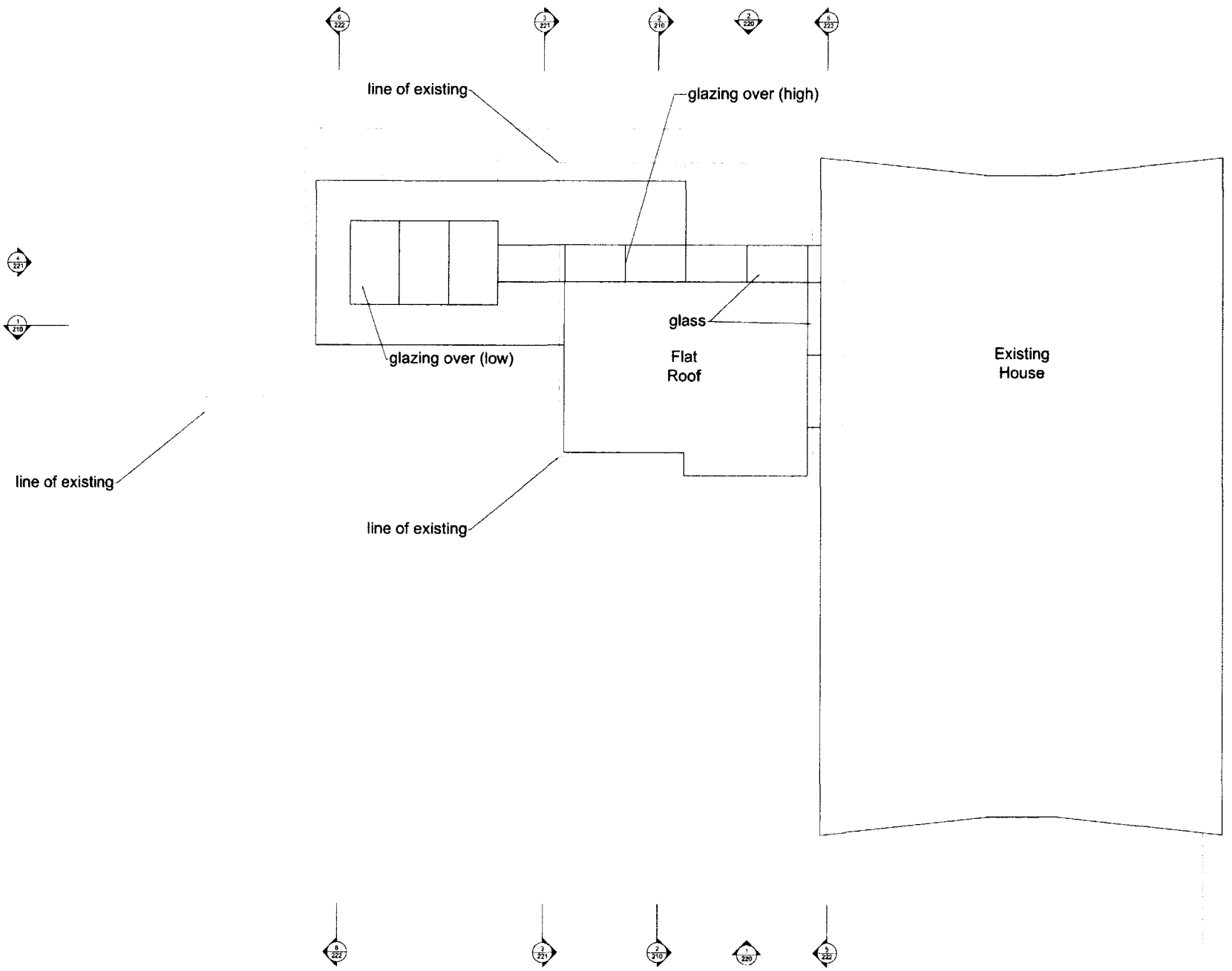

ROOF PLAN

SCALE

0 1 2 3 4 5 6 7 8

Note

Use figured dimensions only. All dimensions are to be checked on site and any discrepancies, errors or omissions are to be reported to the architect prior to commencement of works

N

APPROXIMATE DIRECTION

KEY:

Existing Wall

New Wall

(+4.890) Existing Level

+4.900 Proposed Level

Subject to detailed dimensional survey -Please note these drawings are based on existing drawings prepared by others. BB Partnership cannot be held responsible for any discrepancies and/or inaccuracy that may arise

ALL DIMENSIONS APPROXIMATE

SCHEME DESIGN SUBJECT TO STRUCTURAL ENGINEER /SERVICES ENGINEER & PLANNERS COMMENT

PRELIMINARY
FOR COMMENT / DISCUSSION

BB PARTNERSHIP LTD
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client	Mr. & Mrs. Message
project	6 Fitzroy Park Highgate N6 6HP
drawing	Roof Plan Proposed
date	Apr'12
scale	1 100 @ A3
drawn by	NM
drg.no.	ESW_304
rev.	

do not scale . check all dimensions on site

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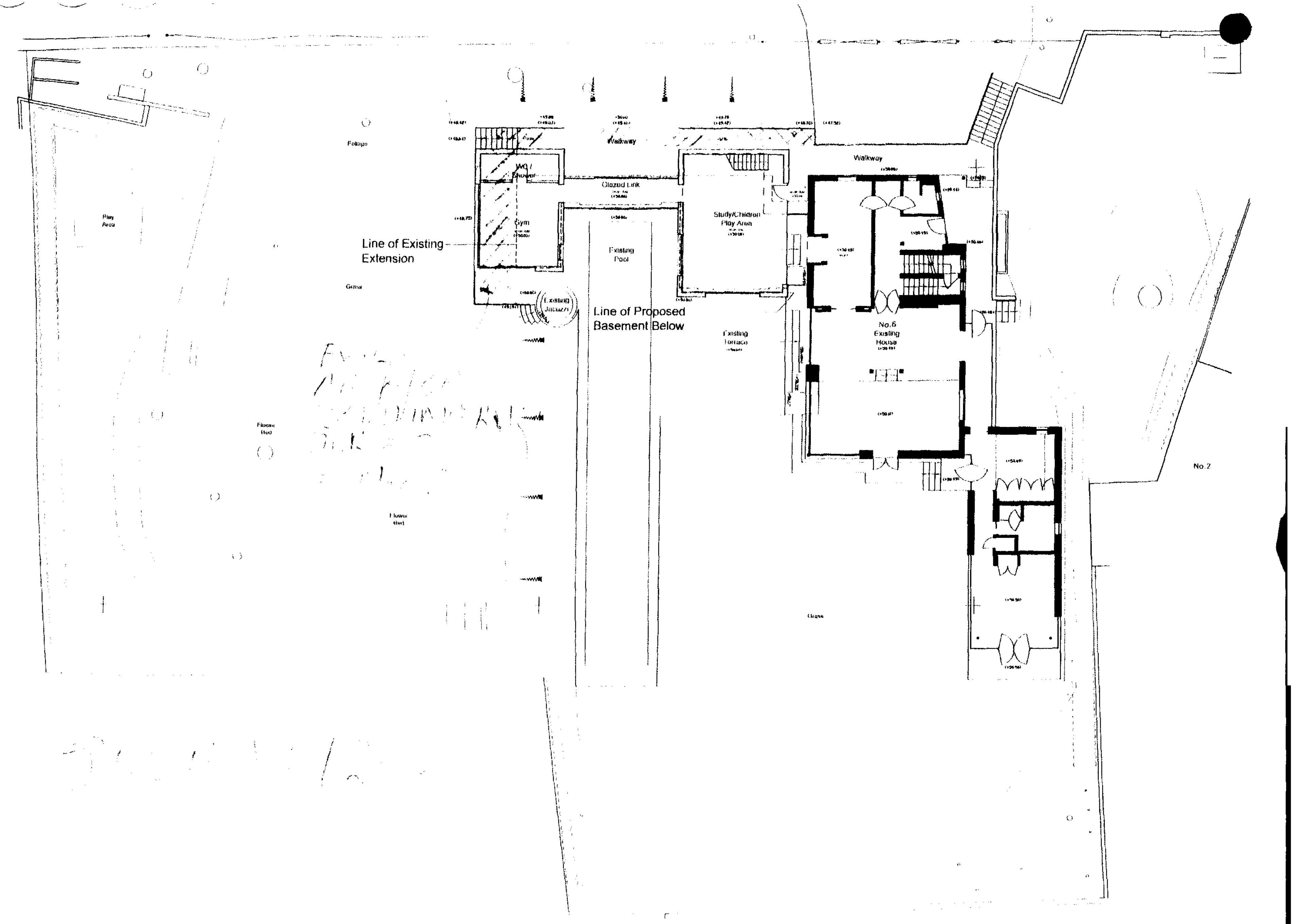

Walkway
Walkway
WC / Shower
Glazed Link
Gym
Study/Children Play Area
Line of Existing Extension
Existing Pool
Play Area
Foliage
Grass
Existing Jacuzzi
Line of Proposed Basement Below
Existing Terrace
No.6 Existing House
Flower Bed
Flower Bed
Grass
No.2