
GROUND INVESTIGATION & BASEMENT IMPACT ASSESSMENT REPORT

King's Cross Methodist Church
58 Birkenhead Street
London
WC1H 8WB

PART 03

Client: West London Mission

Engineer: Conisbee

J14336

November 2015



Ordnance Survey Plan

Published 1970 - 1979

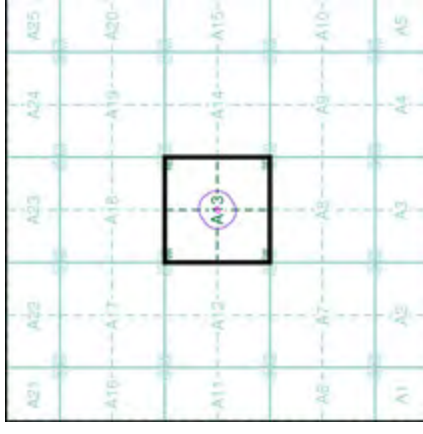
Source map scale - 1:1,250

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)

TC2983 SE 1978 1:1,250	TC3083 SE 1970 1:1,250
TC3082NW 1979 1:1,250	TC3082NE 1973 1:1,250

Historical Map - Segment A13

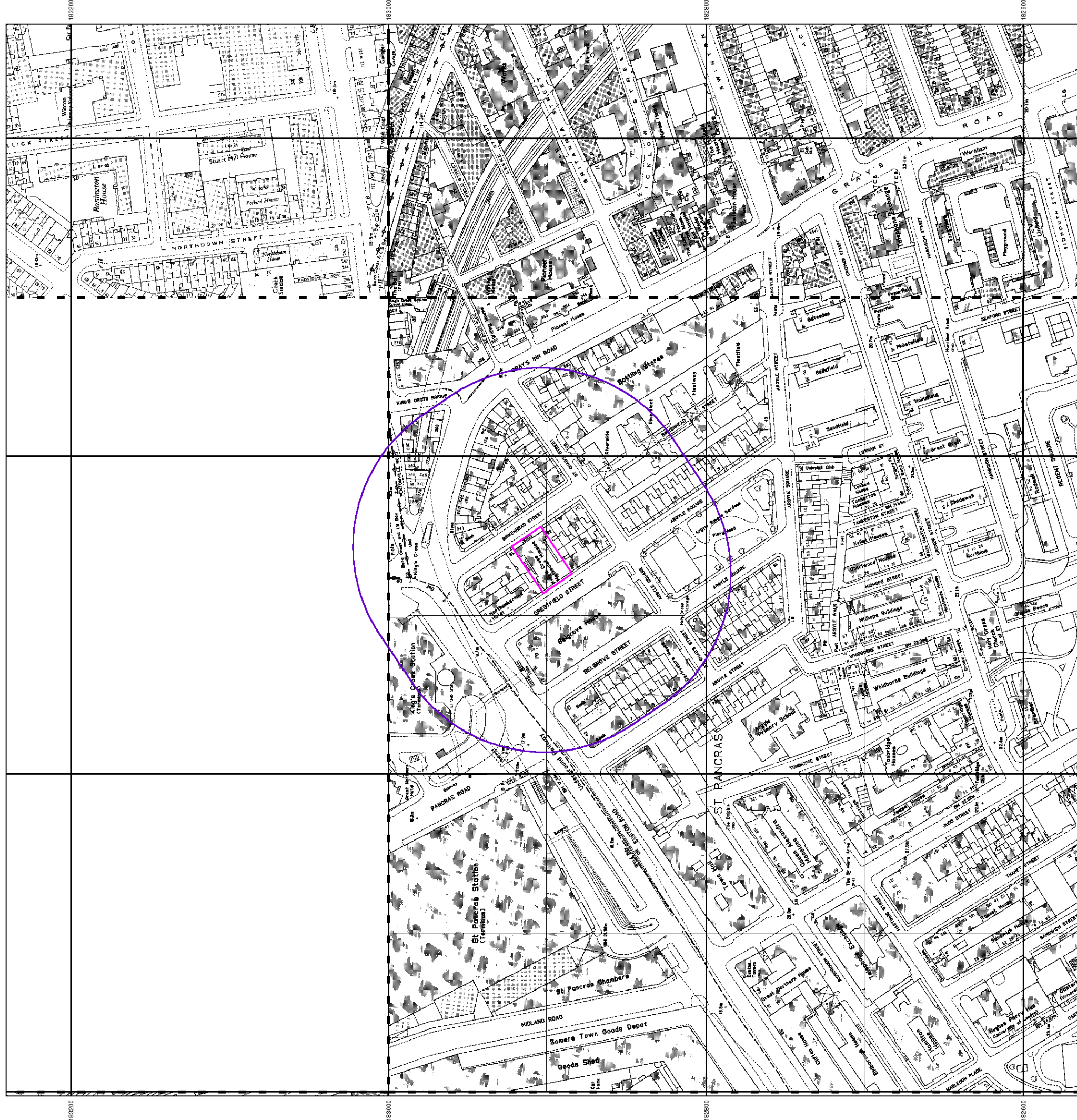


Order Details

Order Number: 61911674_1_1
 Customer Ref: J14336
 National Grid Reference: 530330, 182900
 Site: A
 Site Area (Ha): 0.08
 Search Buffer (m): 100

Site Details

Methodist Chaplaincy House, 58a Birkenhead Street,
 LONDON, WC1H 8BW



Supply of Unpublished Survey Information

Published 1973 - 1976

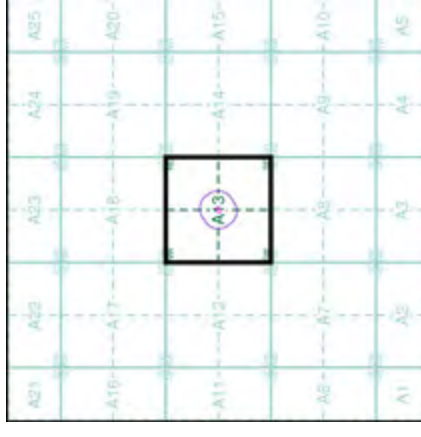
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey.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 These maps were unpublished, and they do not represent a single moment in time.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

TQ2988SE	1976	1:1,250	TQ3083SW	1974	1:1,250
TQ2982NE	1973	1:1,250	TQ3082NW	1974	1:1,250
			TQ3082NE	1976	1:1,250

Historical Map - Segment A13

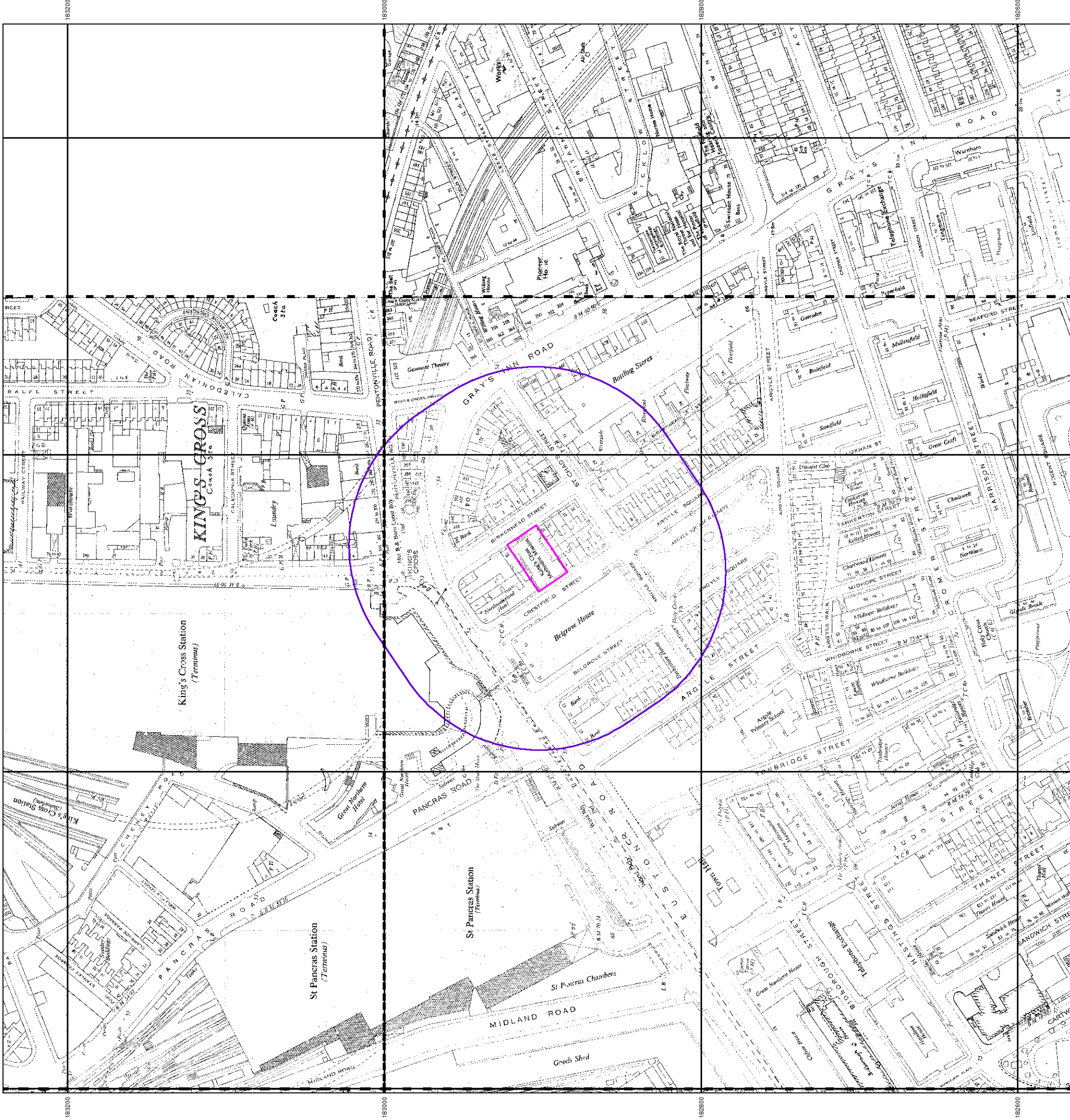


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Supply of Unpublished Survey Information Published 1976

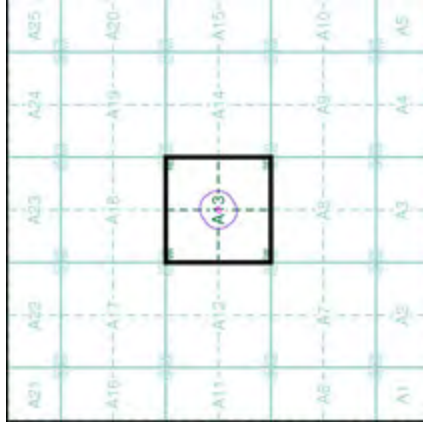
Source map scale - 1:1,250

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TC3088SW	1976	1:1,250
TC3082NW	1976	1:1,250

Historical Map - Segment A13

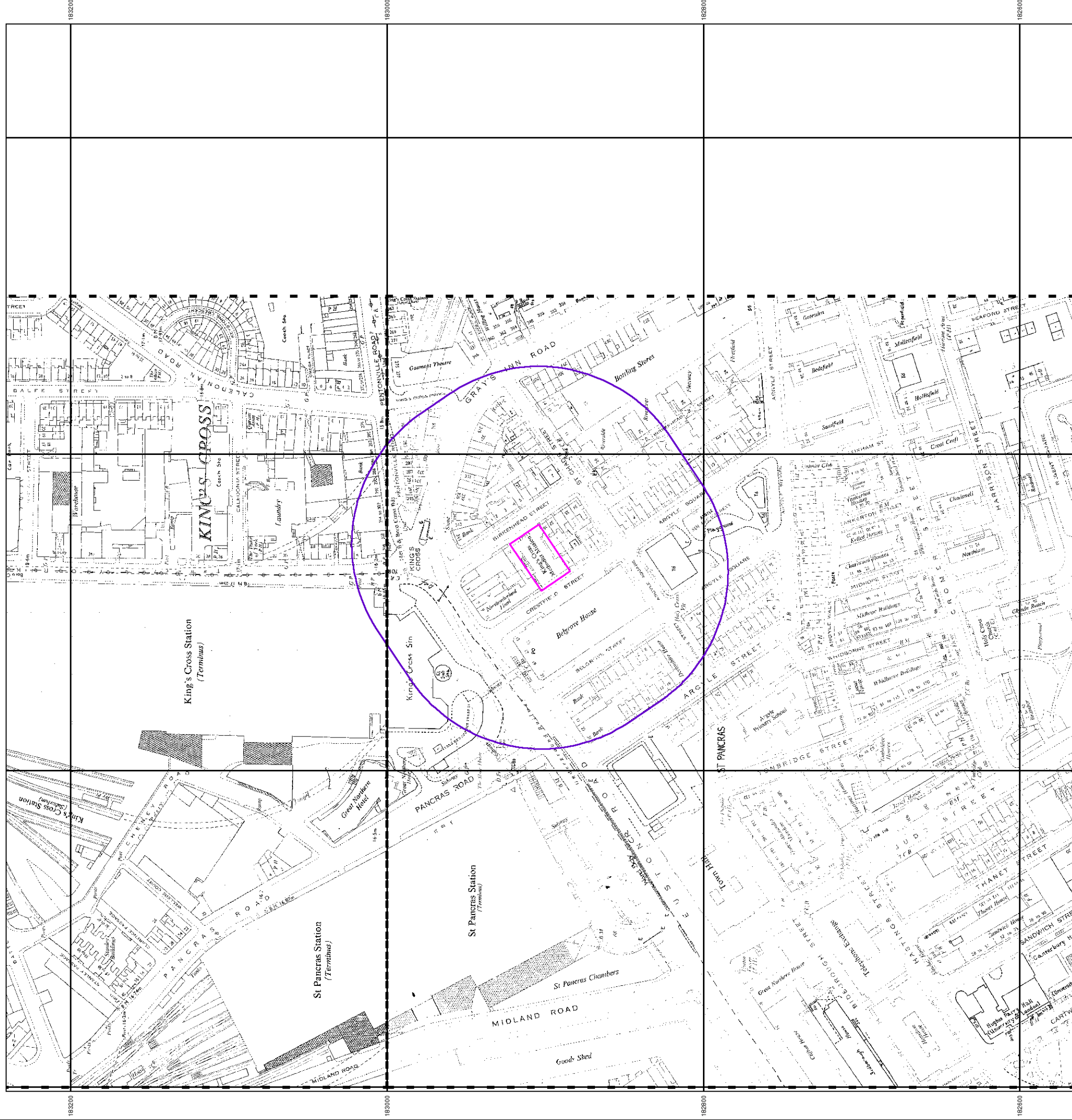


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Large-Scale National Grid Data Published 1991

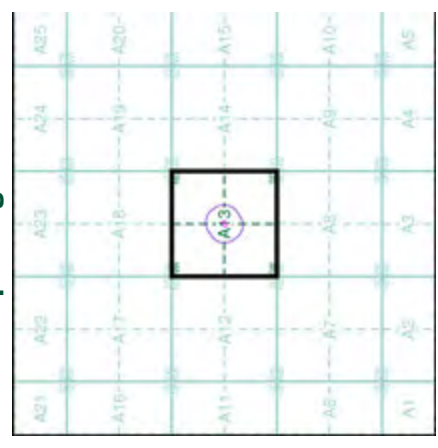
Source map scale - 1:1,250

'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 forerunners 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)

TQ2983SE 1991 1:1,250	TQ3083SW 1991 1:1,250	TQ3083SE 1991 1:1,250
TQ2982NE 1991 1:1,250	TQ3082NW 1991 1:1,250	TQ3082NE 1991 1:1,250

Historical Map - Segment A13

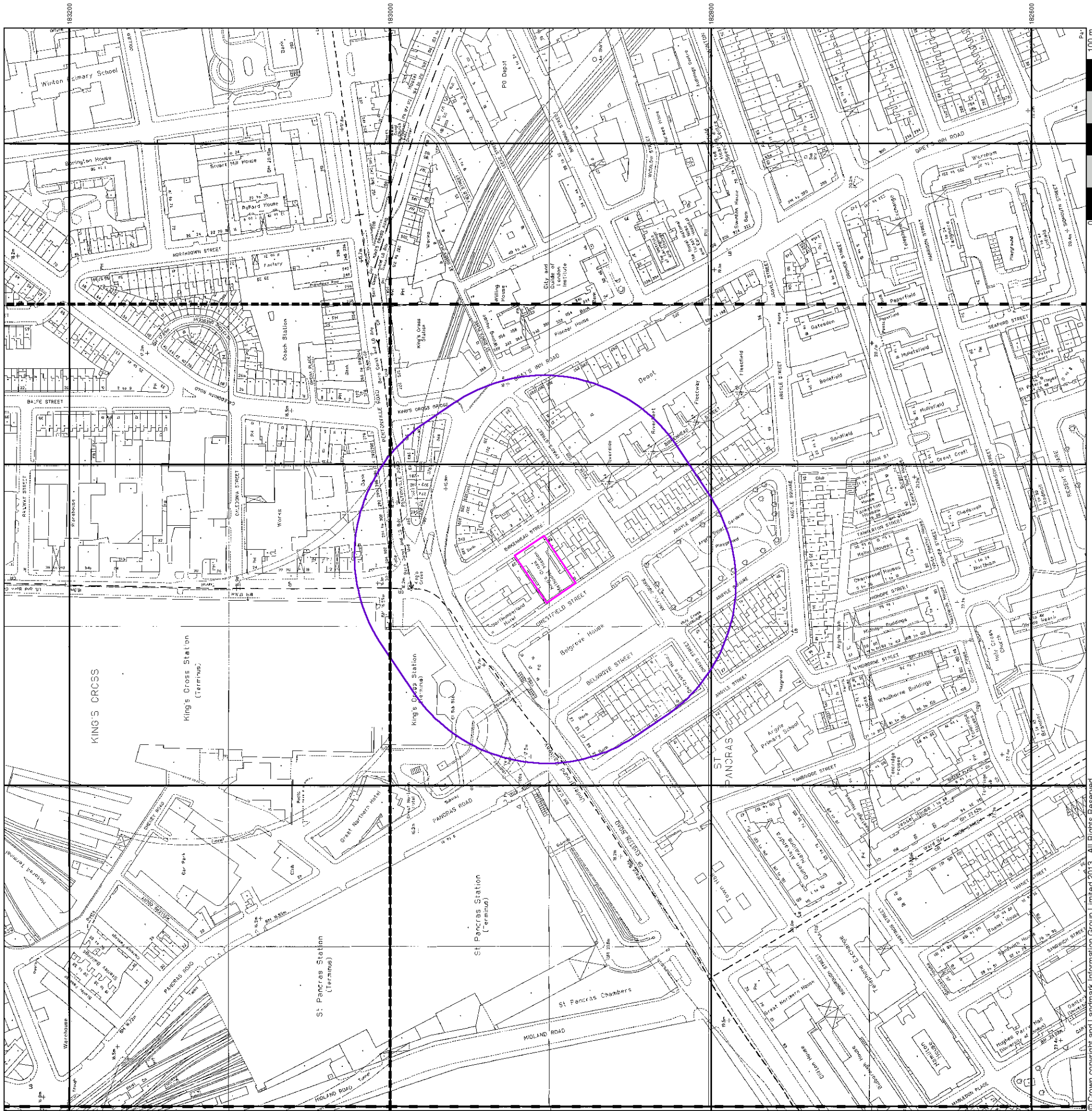


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Large-Scale National Grid Data

Published 1991 - 1994

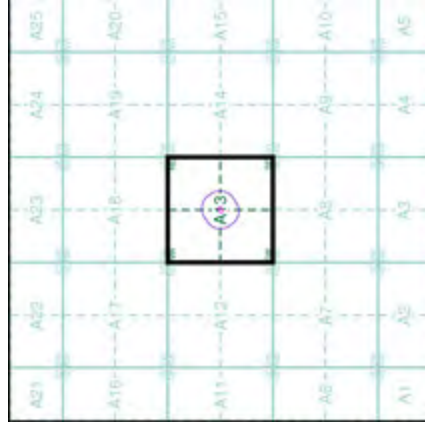
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TQ2983SE 1993 1:1,250	TQ3083SW 1994 1:1,250	TQ3083SE 1991 1:1,250
TQ2982NE 1992 1:1,250	TQ3082NW 1992 1:1,250	TQ3082NE 1992 1:1,250

Historical Map - Segment A13

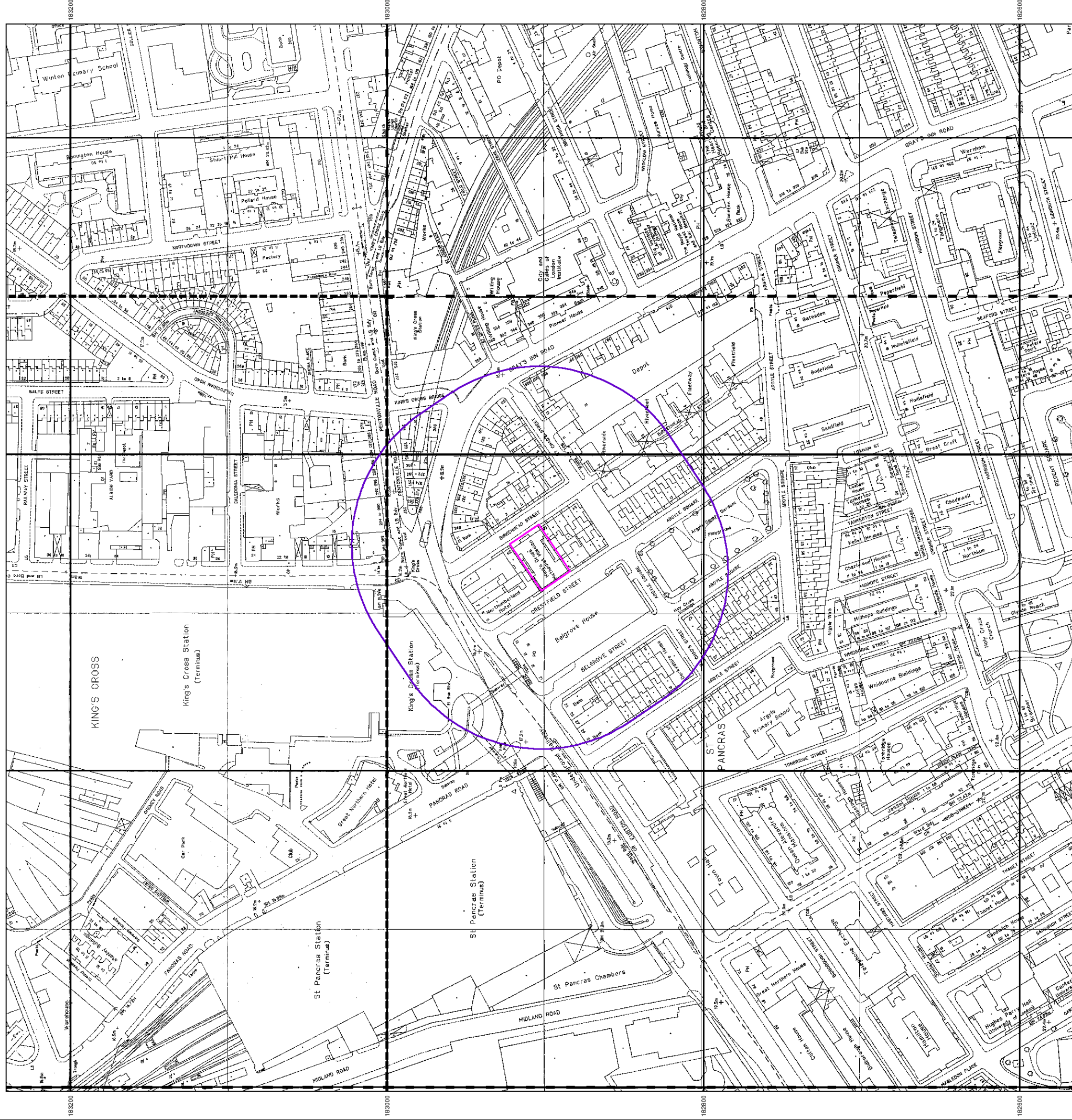


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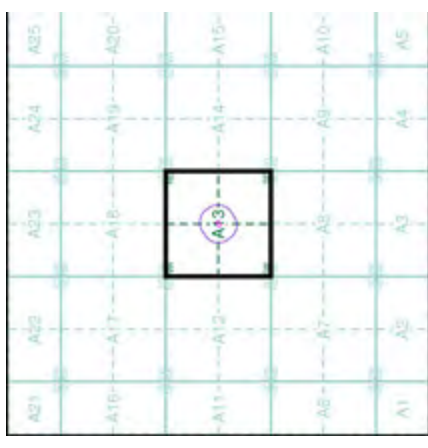


'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the forerunners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

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TCQ3083SE	1991	1:1,250
TCQ3082NW	1993	1:1,250
TCQ3082NE	1993	1:1,250

Historical Map - Segment A13

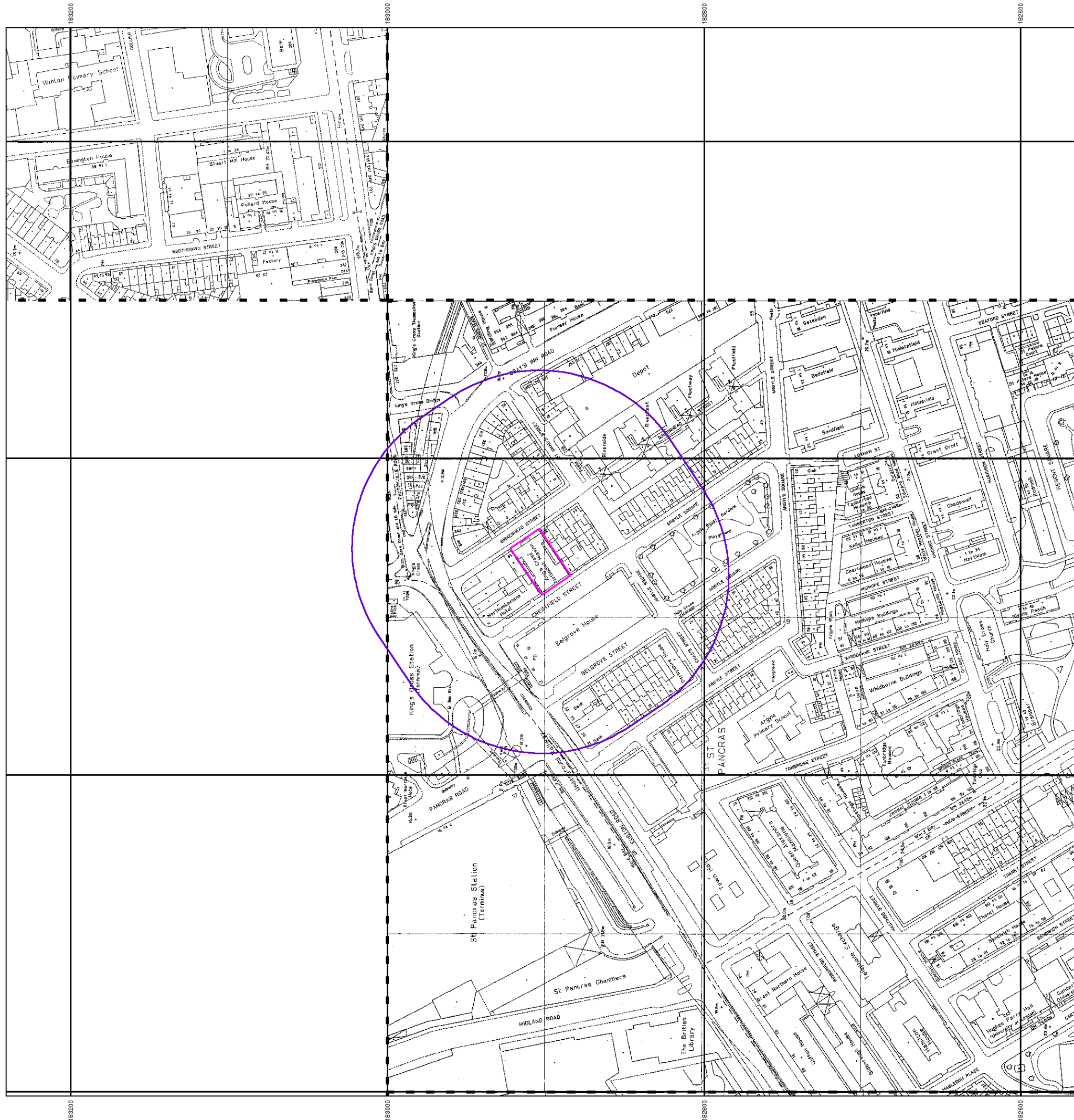


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Site Plan

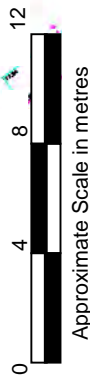
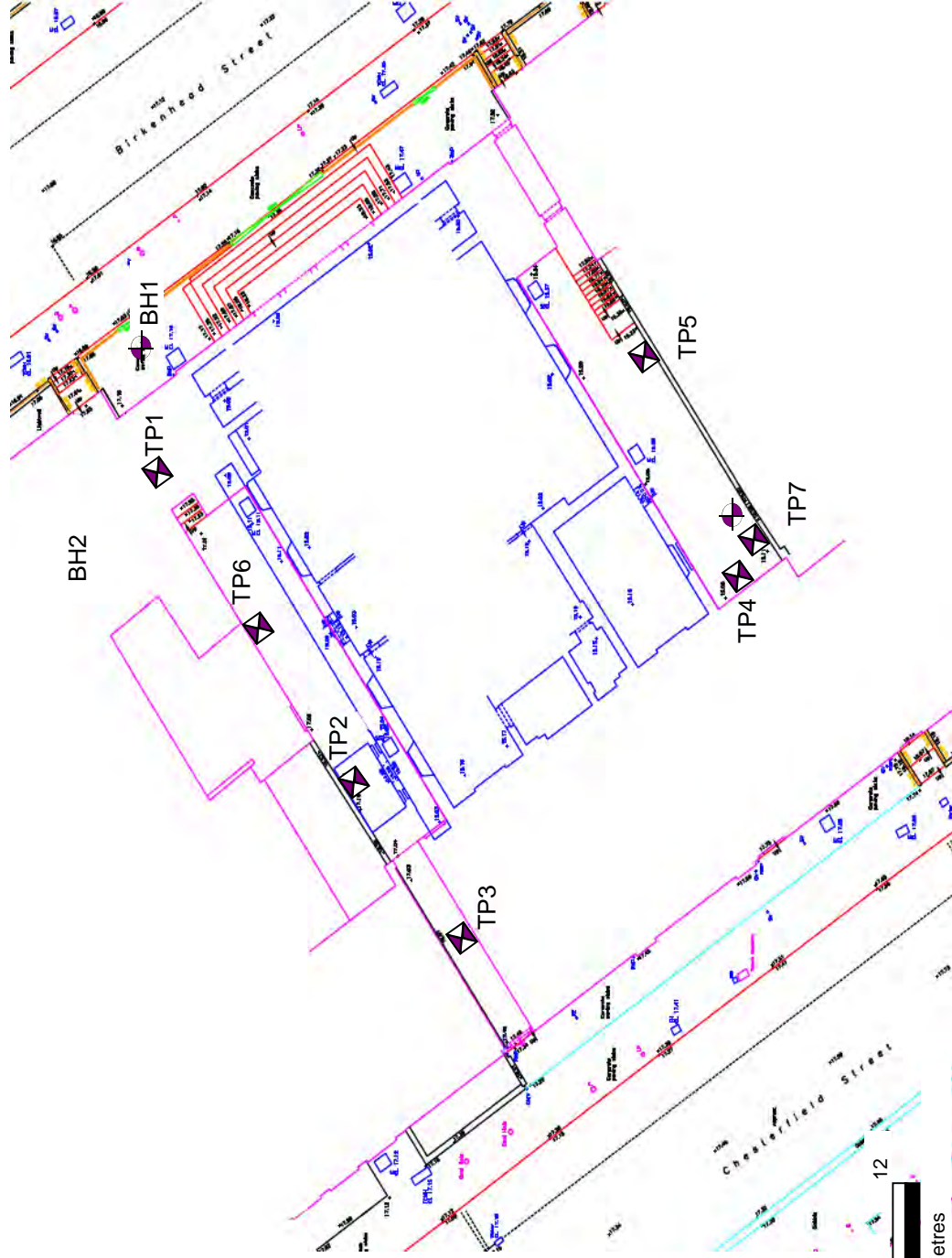
Site King's Cross Methodist Church, 58 Birkenhead Street, London WC1H 8BW

Client West London Mission

Engineer Conisbee

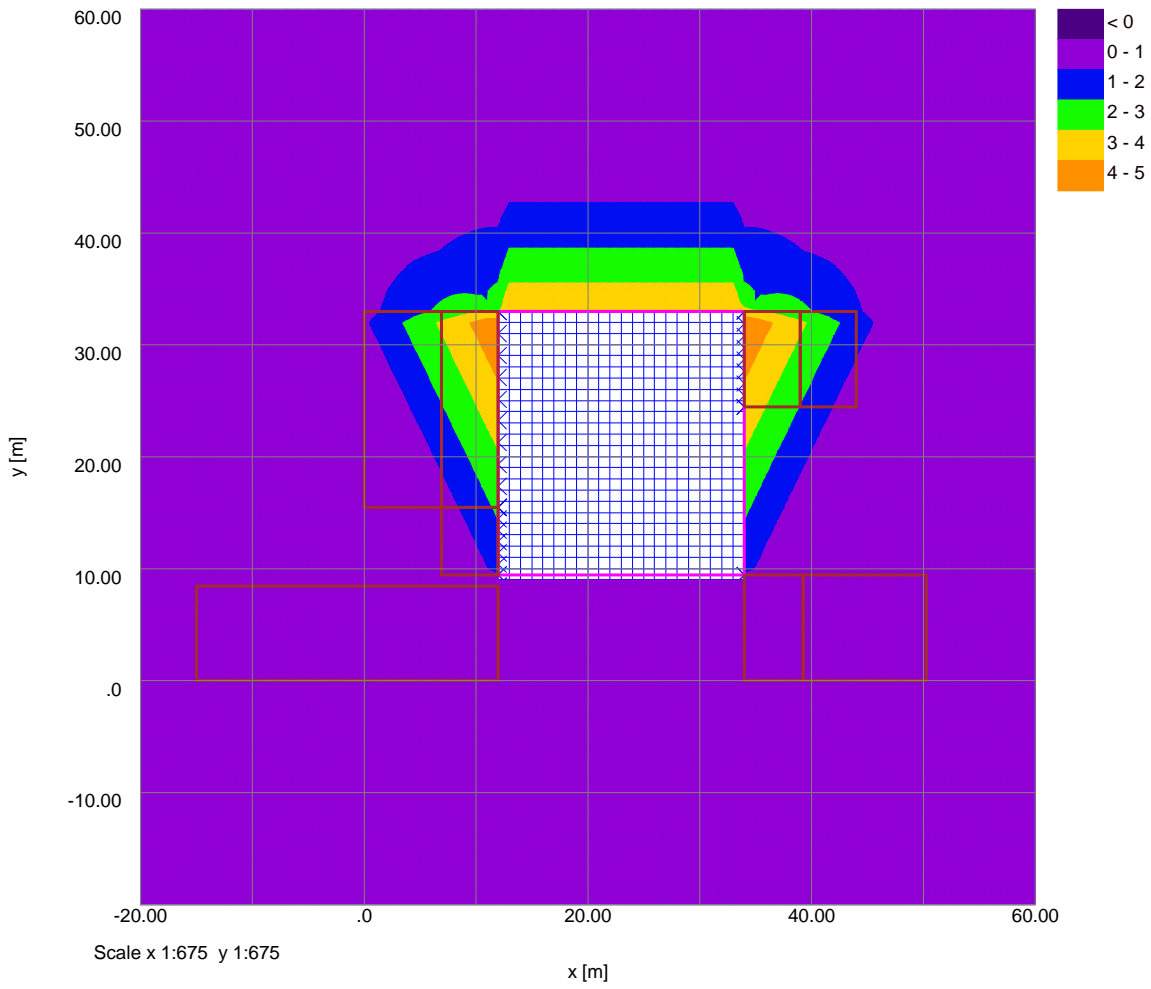
Job Number
J14336

Sheet
1 / 1

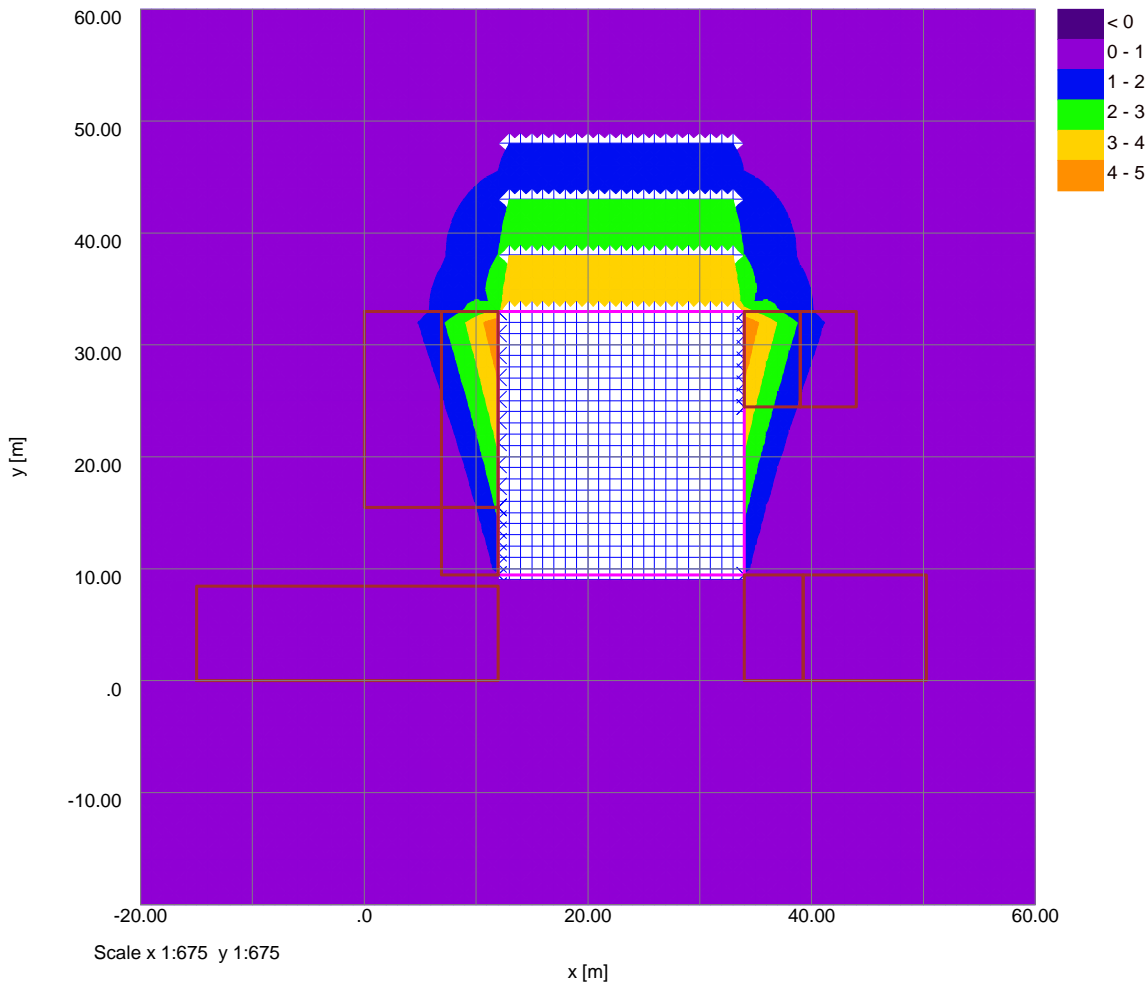


Job No.	Sheet No.	Rev.
Drg. Ref.		
Made by	Date	Checked
JD	19-Oct-2015	

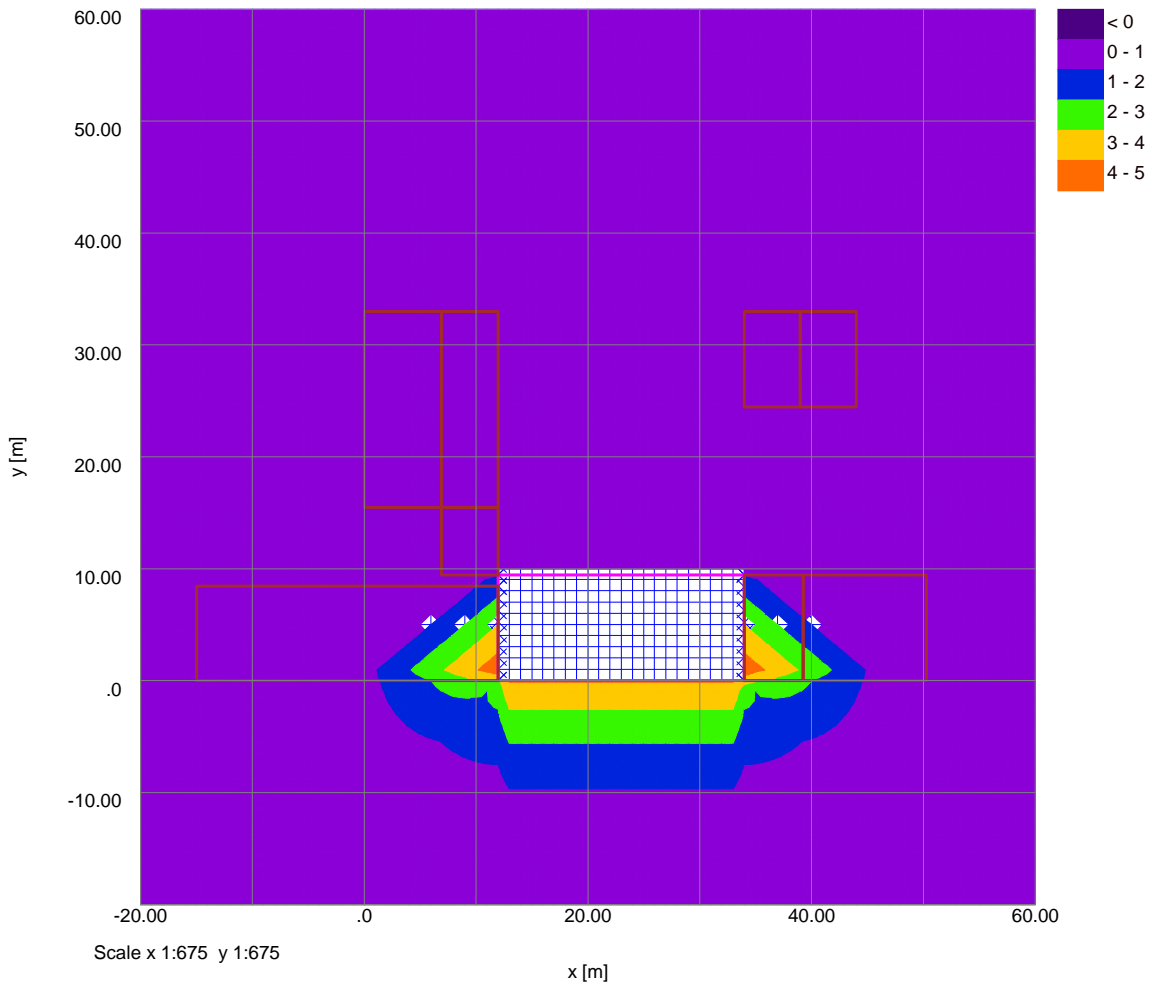
Horizontal Displacement Contours: Grid 1 (level 17.000m) Interval 1mm



Vertical Settlement Contours: Grid 1 (level 17.000m) (Interval 1mm)

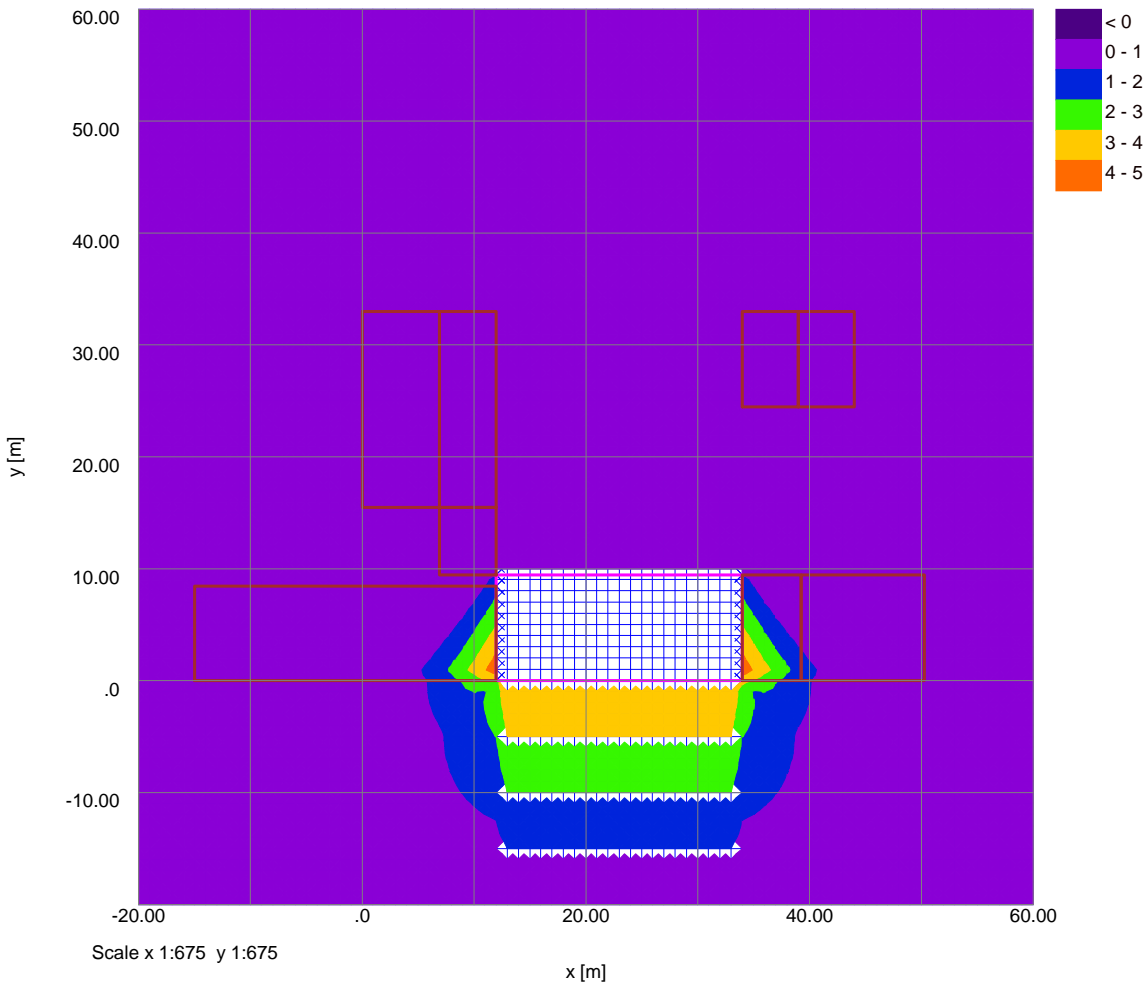


Horizontal Displacement Contours: Grid 1 (level 17.000m) Interval 1mm

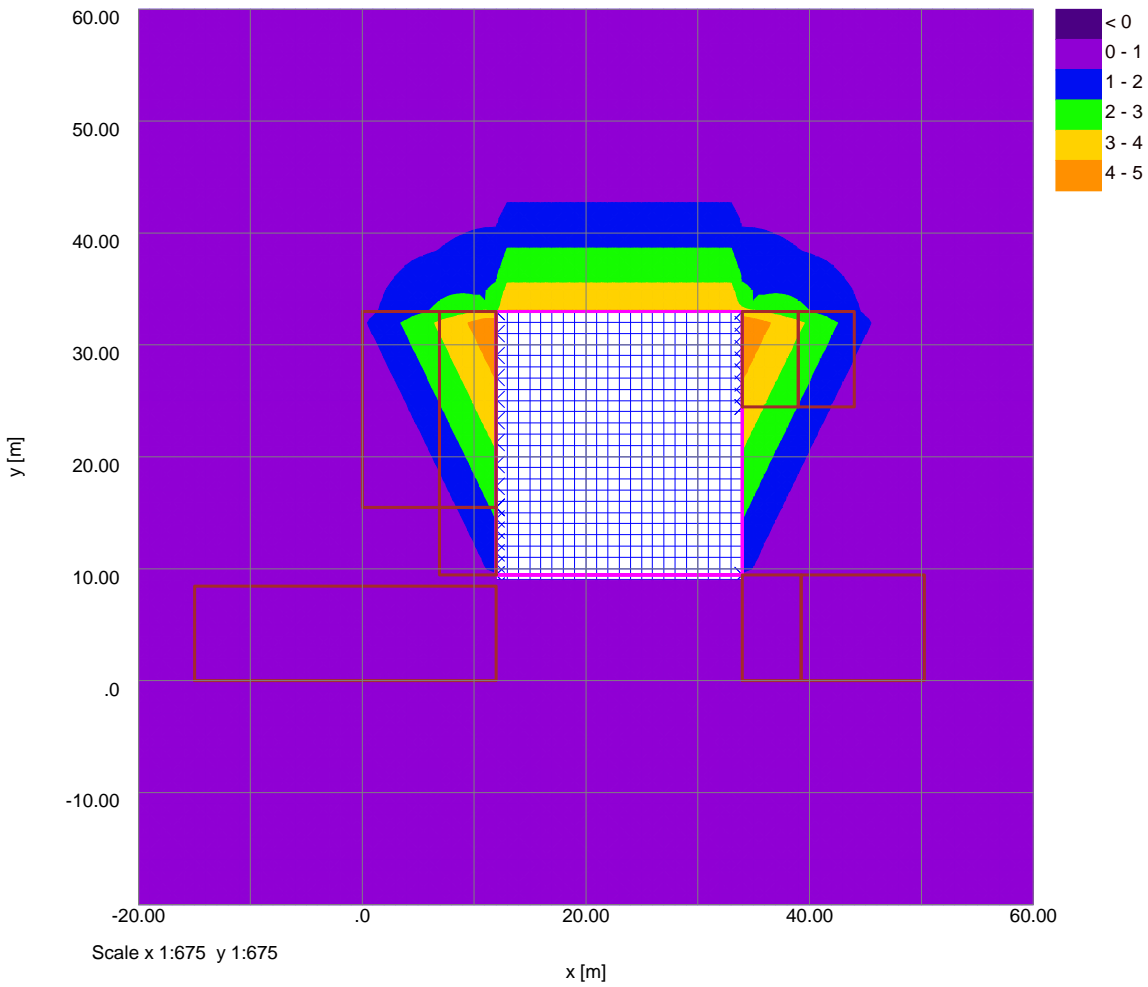


Kings Cross Methodist Church
Underpin and Contig wall installation

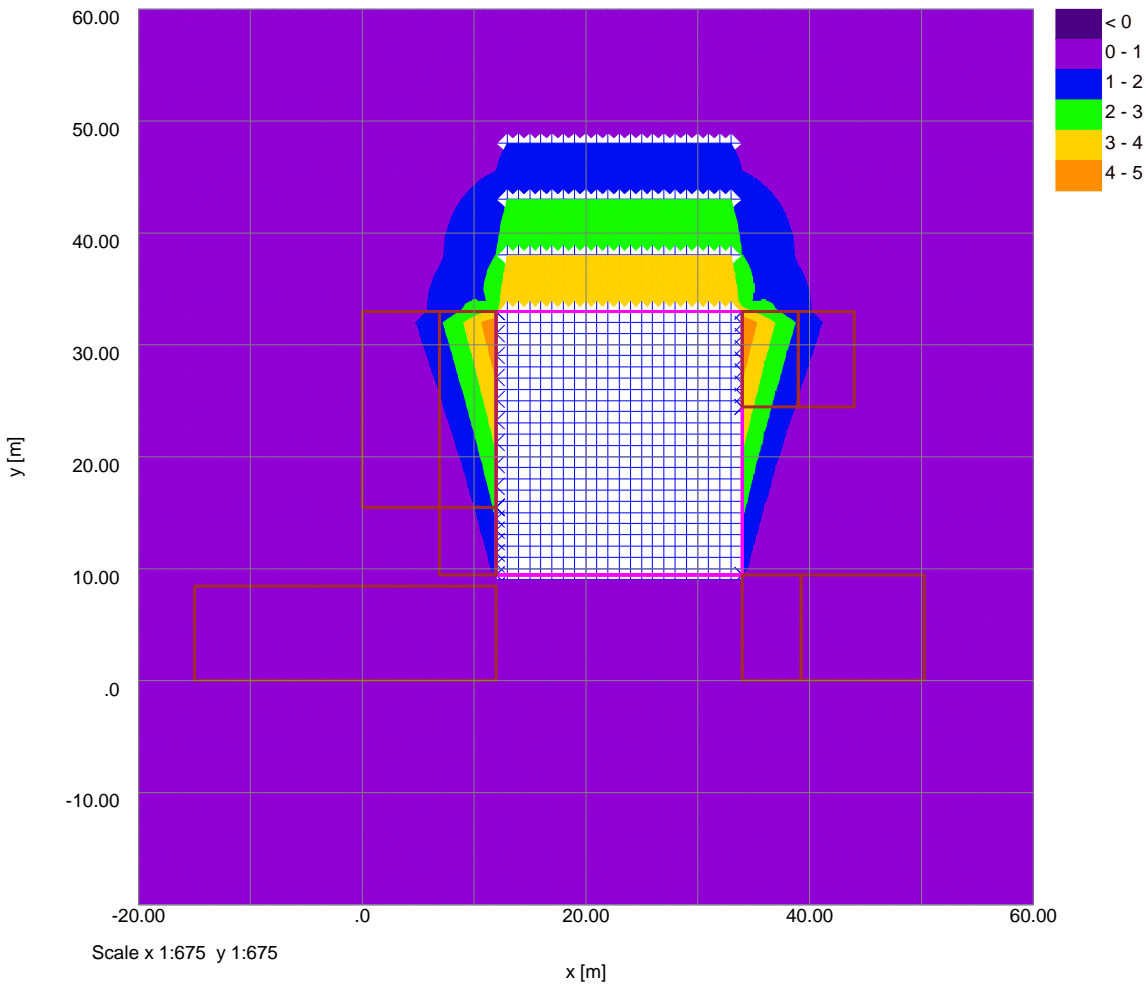
Vertical Settlement Contours: Grid 1 (level 17.000m) (Interval 1mm)



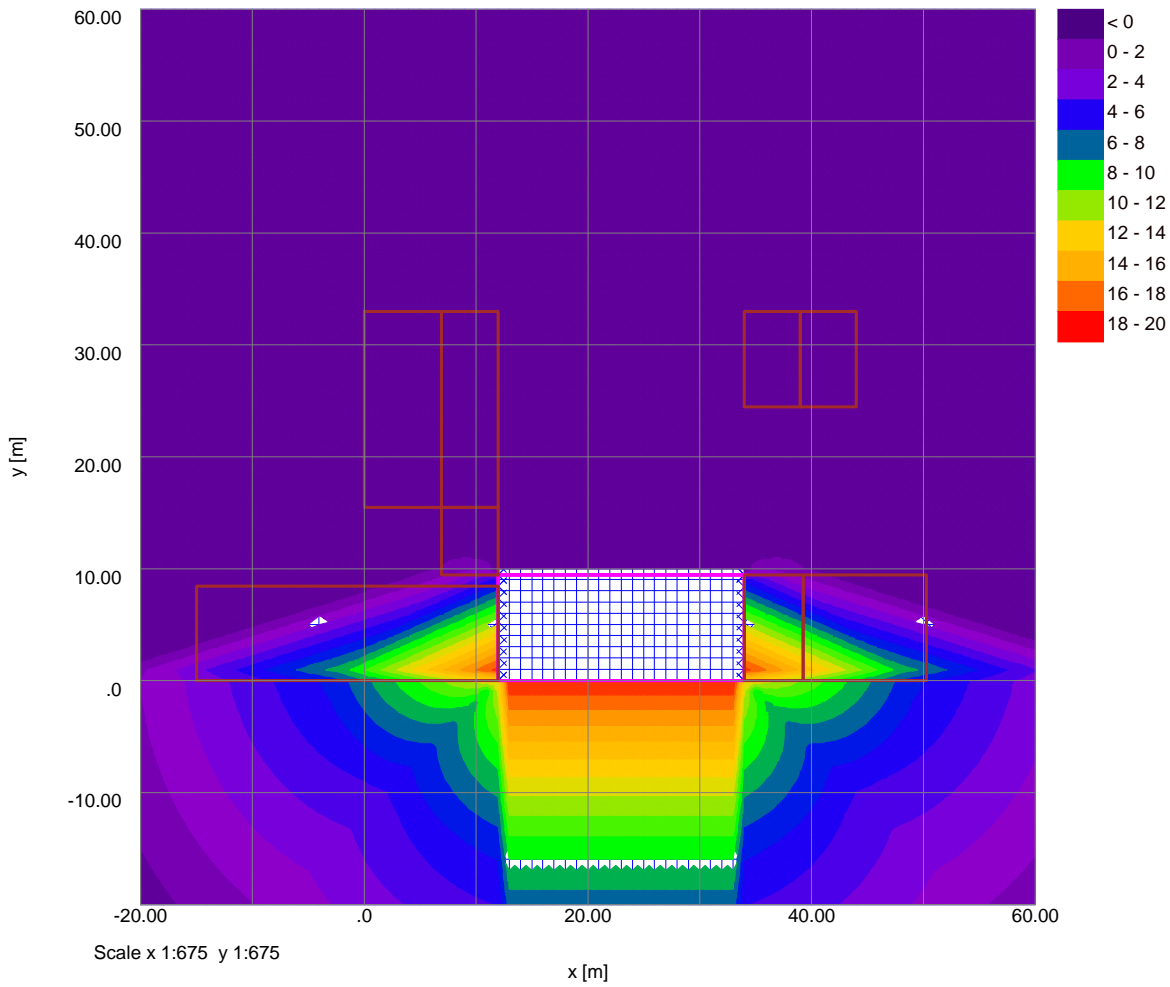
Horizontal Displacement Contours: Grid 1 (level 17.000m) Interval 1mm



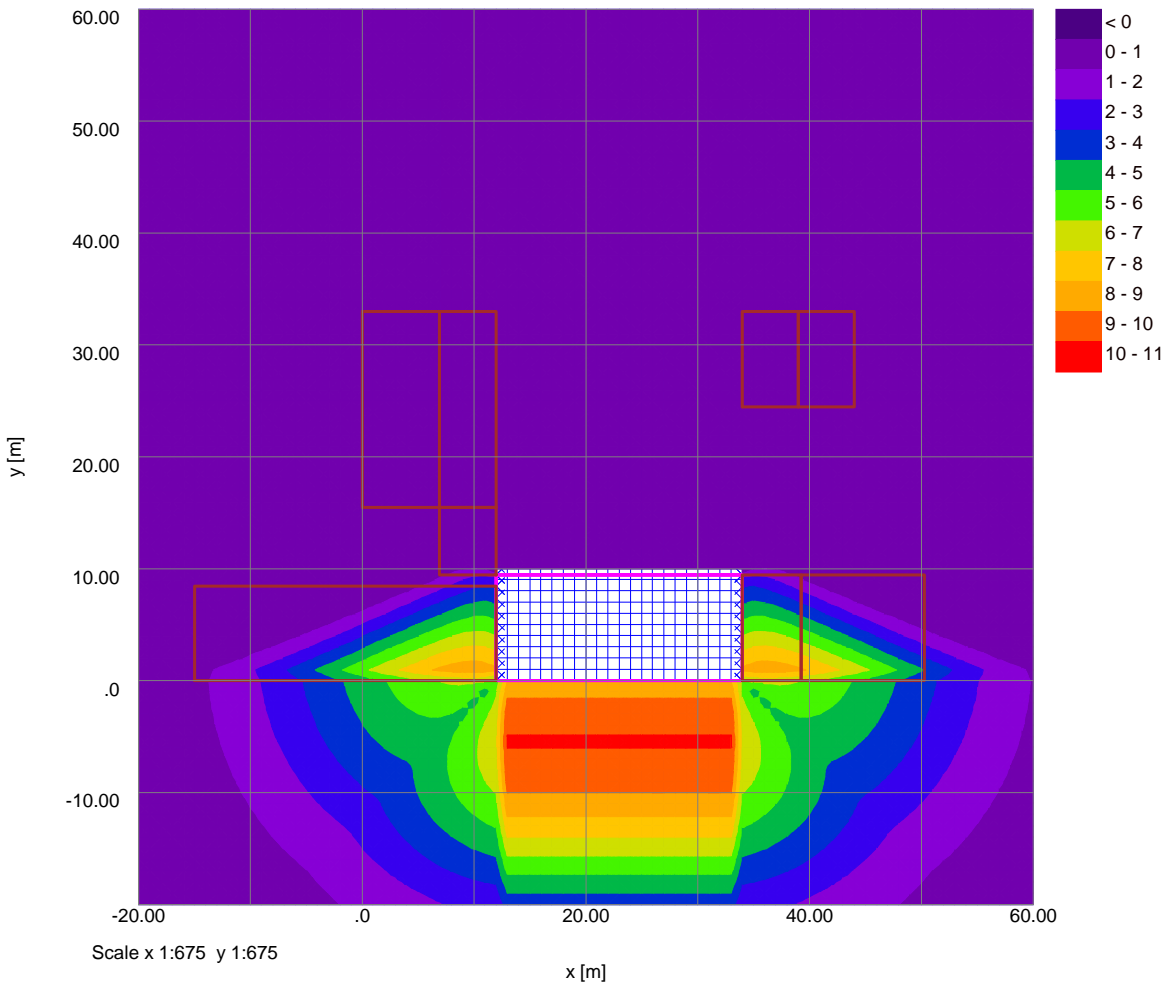
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Horizontal Displacement Contours: Grid 1 (level 17.000m) Interval 1mm

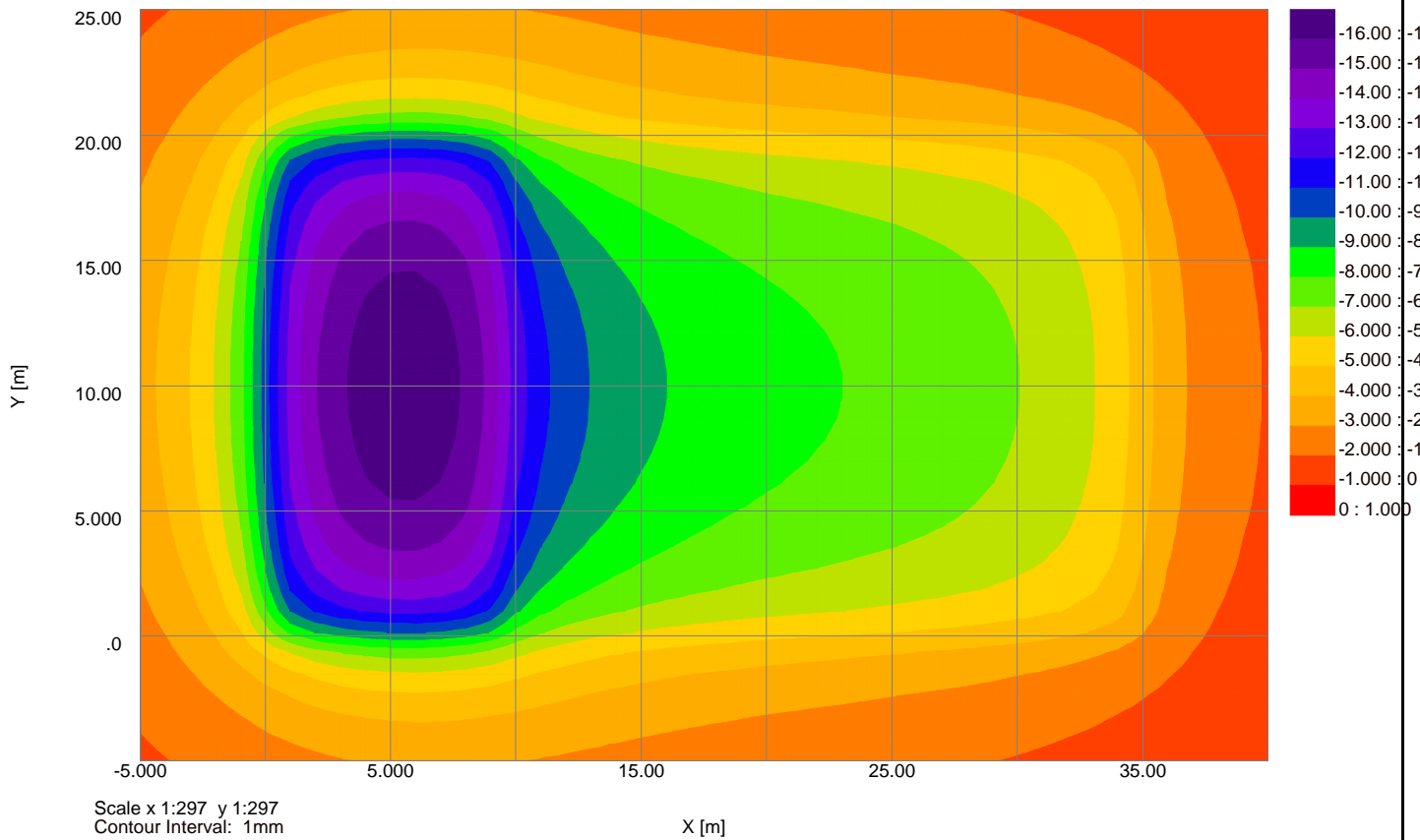


Vertical Settlement Contours: Grid 1 (level 17.000m) (Interval 1mm)



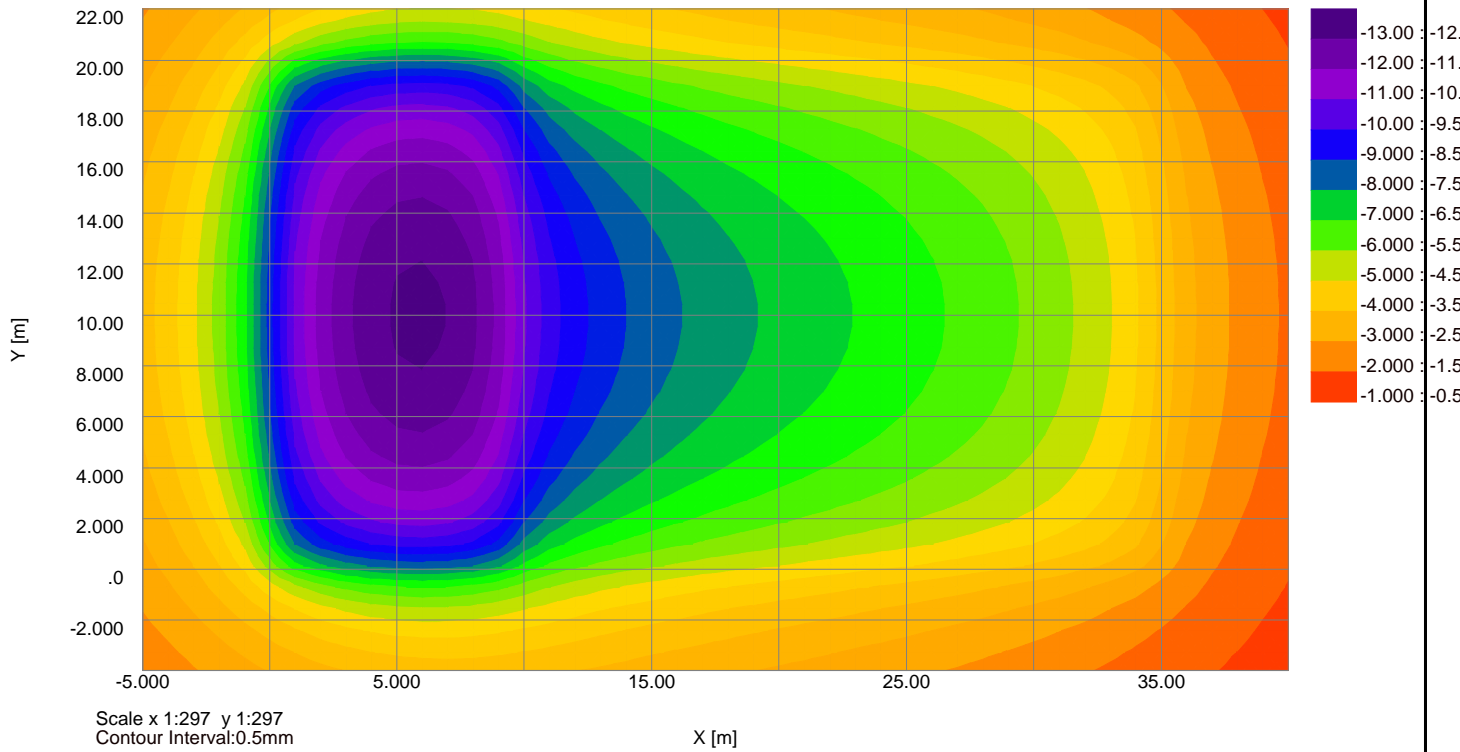
Job No.	Sheet No.	Rev.
J14336		
Drg. Ref.		
Made by JD	Date	Checked

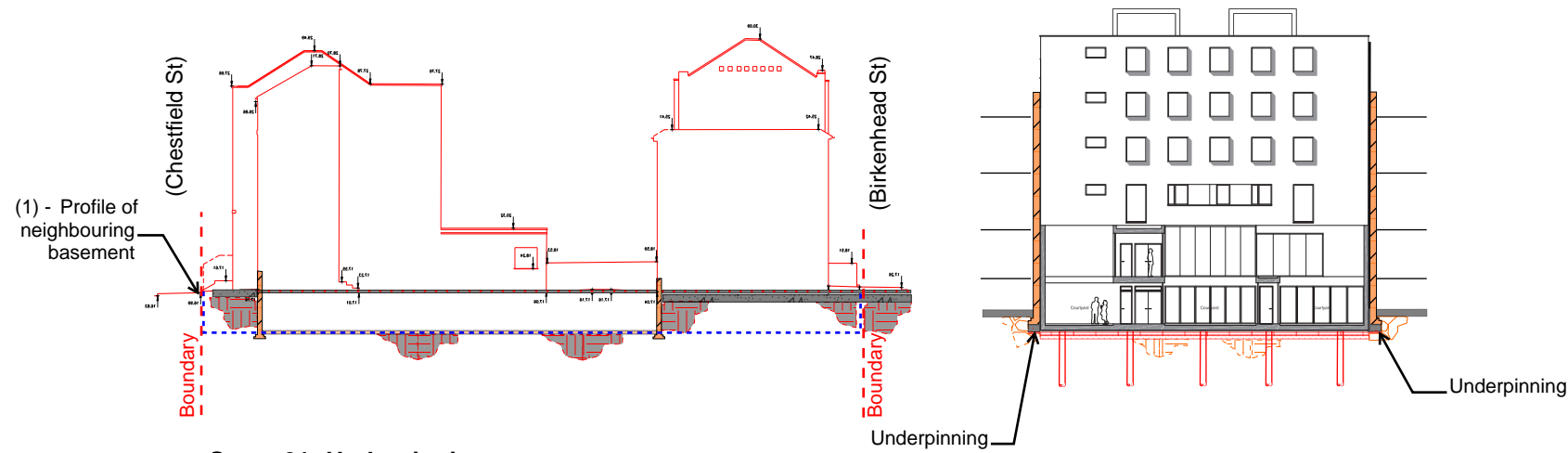
Settlement Contours : Grid 1 at 13.5000m



Job No.	Sheet No.	Rev.
J14336		
Drg. Ref.		
Made by	Date	Checked
JD		

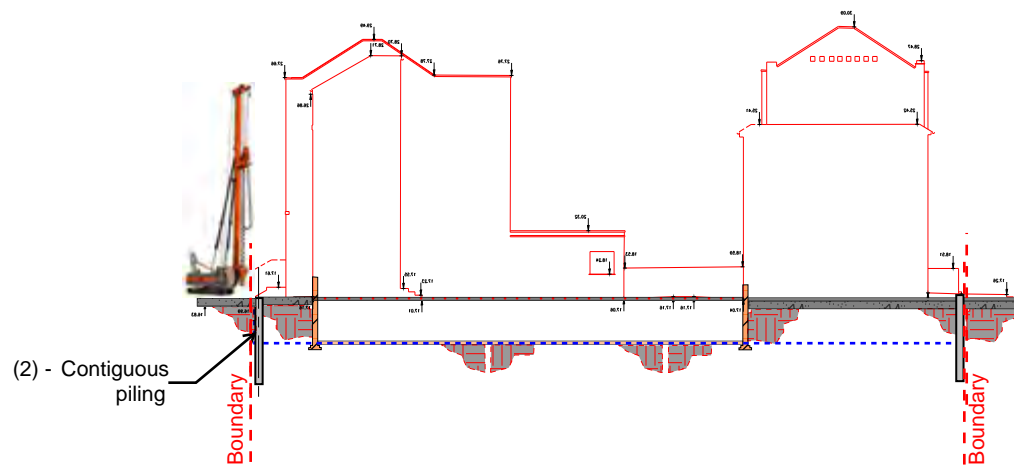
Settlement Contours : Grid 1 at 13.5000m





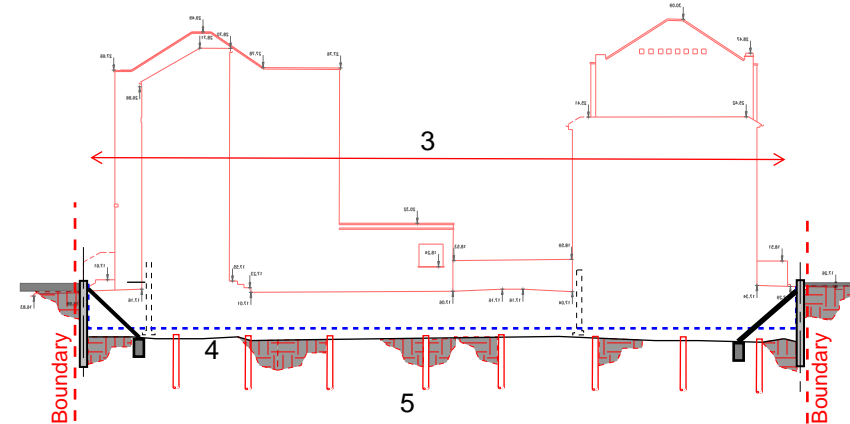
Stage 01: Underpinning

1. Underpin basement neighbouring party wall by max. 900mm wide underpins in a "hit and miss" construction sequence to ensure wall stability is maintained at all time.



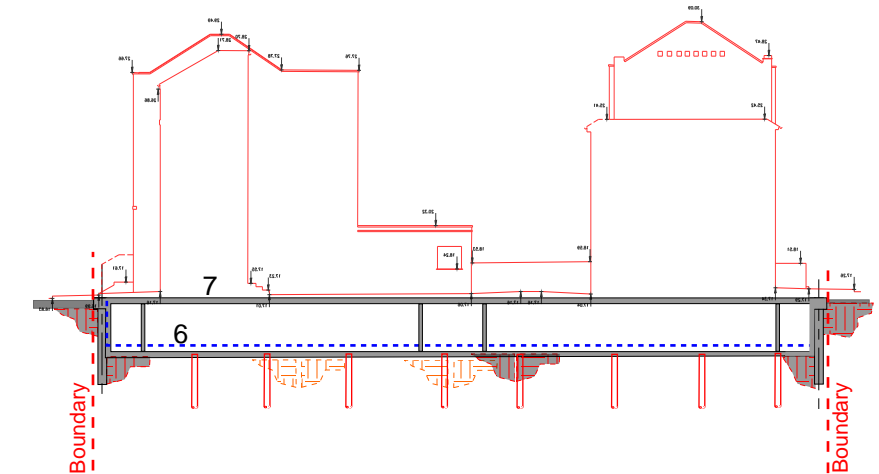
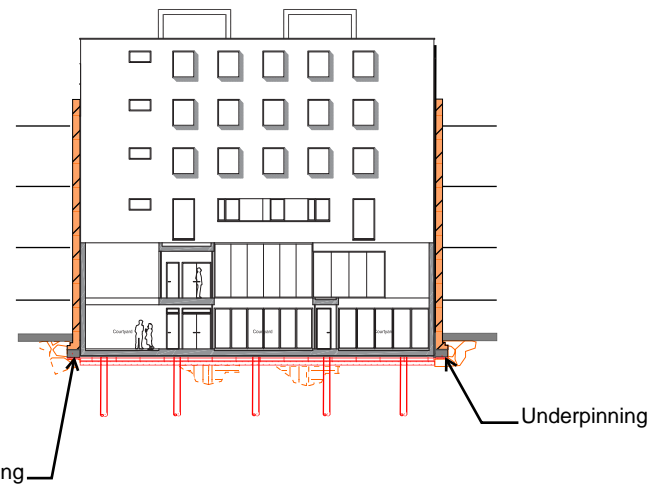
Stage 02: Contiguous piling

2. Installation of contiguous bored piled wall to form the basement retaining walls parallel to both Birkenhead and Chestfield Streets. This will minimize any disruption to the adjacent pathway.



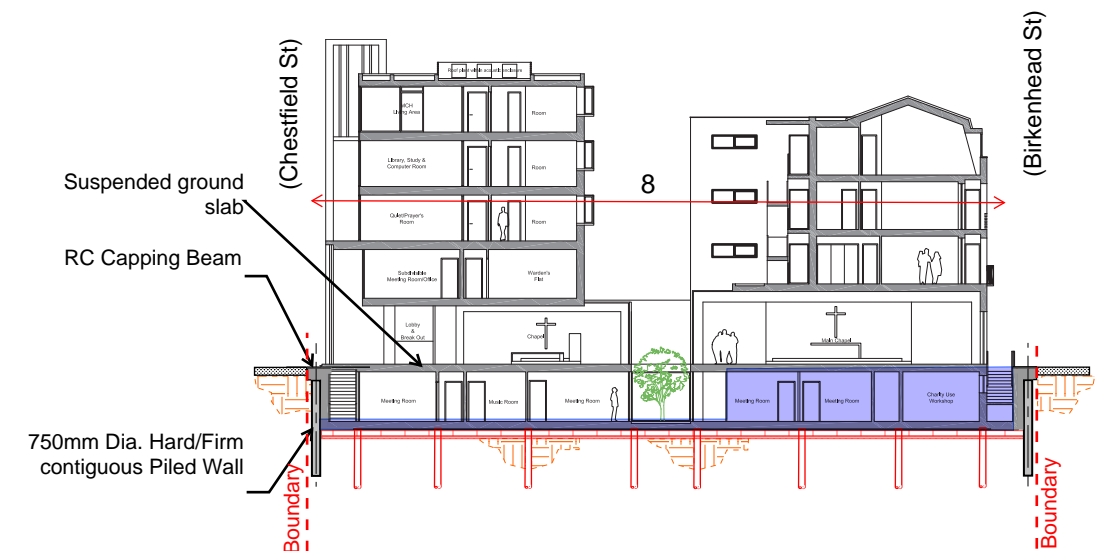
Stage 03: Demolition

3. Demolition of existing building. Provide temporary propping strategy to support existing neighbouring party walls to ensure lateral stability is maintained during construction.
 4. Excavate below basement floor level to accommodate space for heave protection board and RC slab
 5. Install ground bearing piles.



Stage 04: Basement slab construction

6. Construction of basement suspended slab
 7. Construction of RC columns and ground floor flat slab.



Stage 05: Construction of steel frame (upper floor)

8. Construction of the upper floors and roof in lightweight steel frame structure.

NOT FOR CONSTRUCTION

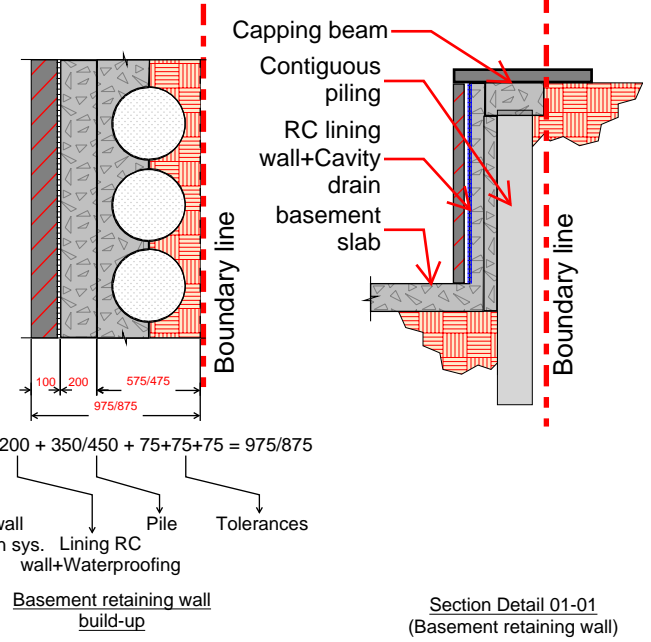
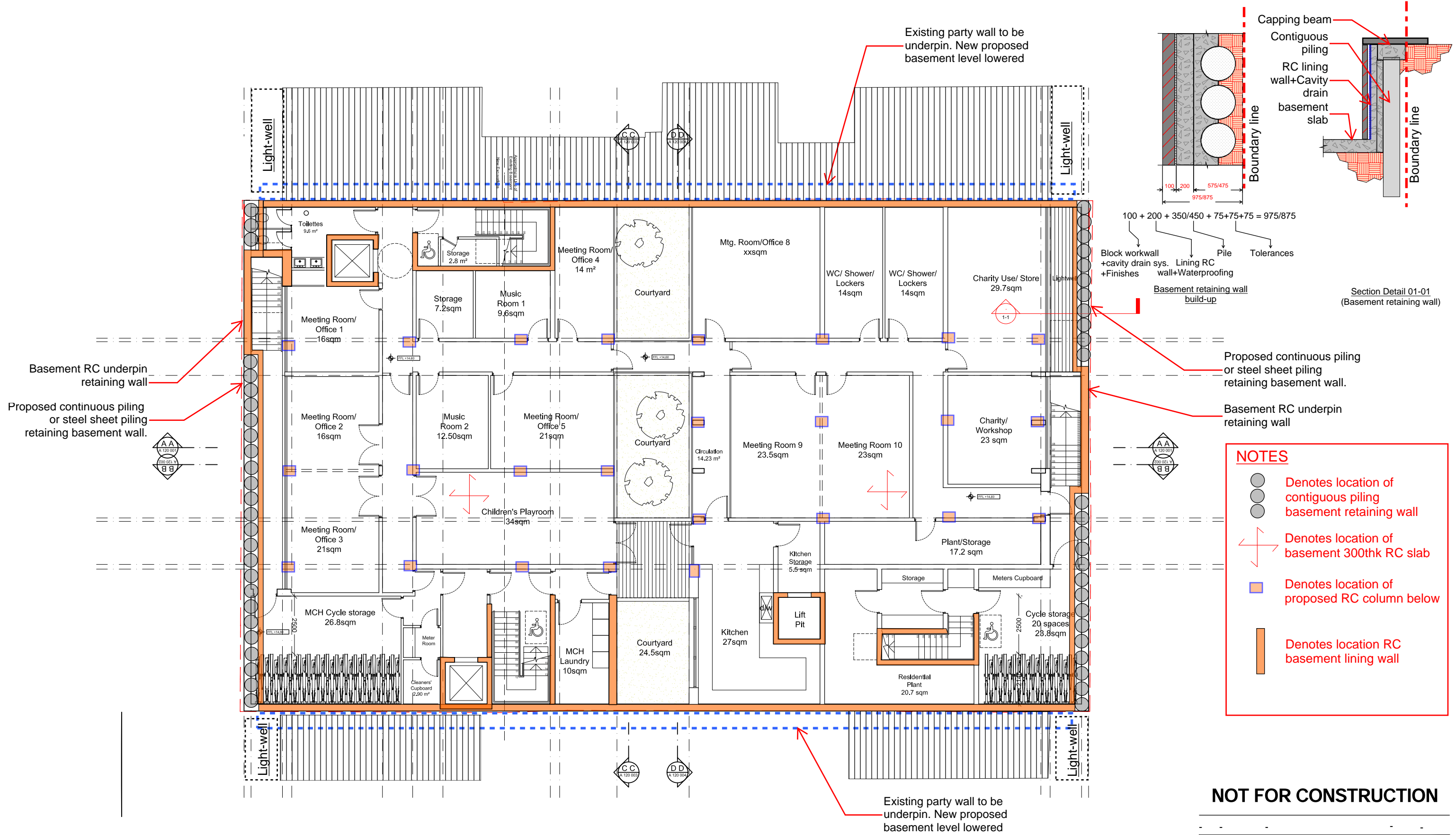
P1	22.09.15	BIA REPORT	FA	DR
Rev	Date	Description	Drawn	Check
Drawing Status		Project No		
PRELIMINARY		140106		
Date	Drawn	Drawing No		
NOV 2014	FA	SSK100		
Scale	Engineer	Revision		
NTS	DR	P2		

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Project
 King's Cross Methodist Church, 58
 Birkenhead Street, London WC1 H8BB
 Title
 Basement Construction Sequence

This drawing must be read in conjunction with the specification and all other relevant drawings. Do not scale from this drawing.



Basement RC underpin retaining wall

Proposed continuous piling or steel sheet piling retaining basement wall.

Proposed continuous piling or steel sheet piling retaining basement wall.

Basement RC underpin retaining wall

- NOTES**
- Denotes location of contiguous piling basement retaining wall
 - Denotes location of basement 300thk RC slab
 - Denotes location of proposed RC column below
 - Denotes location RC basement lining wall

NOTES

- Proposed structural scheme for planing advice purposes.
- RC column locations are only indicative further coordination will be required for final positions.
- Neighbouring buildings assumed to have basement level.
- Ground bearing piles omitted for clarity

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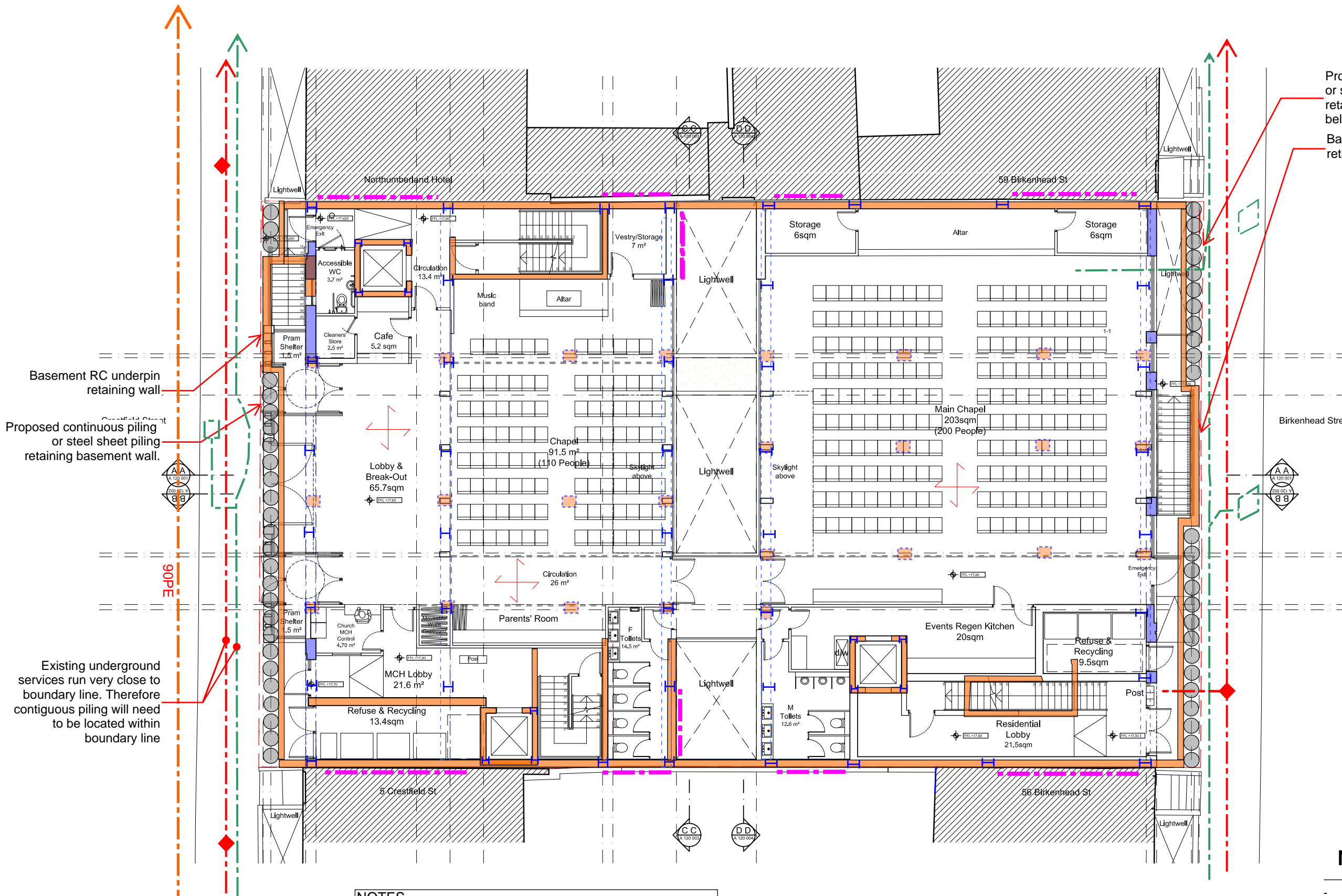
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Project
 King's Cross Methodist Church, 58
 Birkenhead Street, London WC1 H8BB

Title
 Proposed Basement Floor Plan
Structural Scheme

NOT FOR CONSTRUCTION

Rev	Date	Description	Drawn	Check
Drawing Status			Project No	
PRELIMINARY			140106	
Date	Drawn	Drawing No		
Nov 2014	FA	SSK100		
Scale	Engineer	Revision		
NTS	DR	-		



- NOTES**
- Denotes location of proposed steel beams
 - Denotes location of proposed RC 250thk flat slab.
 - Denotes proposed location of below RC column(tbc)
 - H Denotes location of steel column
 - Denotes location of vertical cross bracing
 - Denotes location of underground BT line
 - Denotes location of underground UK Power network line
 - Denotes location of underground National Grid Gas pipe
 - Denotes location of proposed down stand RC beams
 - Denotes location of cavity brick work wall

Basement RC underpin retaining wall

Proposed continuous piling or steel sheet piling retaining basement wall.

Existing underground services run very close to boundary line. Therefore contiguous piling will need to be located within boundary line

Proposed continuous piling or steel sheet piling retaining basement wall below.

Basement RC underpin retaining wall below

- NOTES**
- Proposed structural scheme for planing advice purposes.
 - RC and steel column locations and dimensions are only indicative further coordination will be required for final positions.
 - Neighbouring buildings assumed to have basement level.
 - Underground services information obtained from Environmental search archive information (location shown is approximate).

NOT FOR CONSTRUCTION

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Project
 King's Cross Methodist Church, 58
 Birkenhead Street, London W1U 2QJ

Title
 Proposed Ground Floor Plan
Structural Scheme

Rev	Date	Description	Drawn	Check
Drawing Status			Project No	
PRELIMINARY			104106	
Date	Drawn	Drawing No		
Nov 2014	FA	SSK101		
Scale	Engineer	Revision		
NTS	DR	P1		

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