

Transport and Works Act 1992

London Underground (Northern Line Extension) Order

Deposited plans and sections Planning direction and conservation area consent drawings

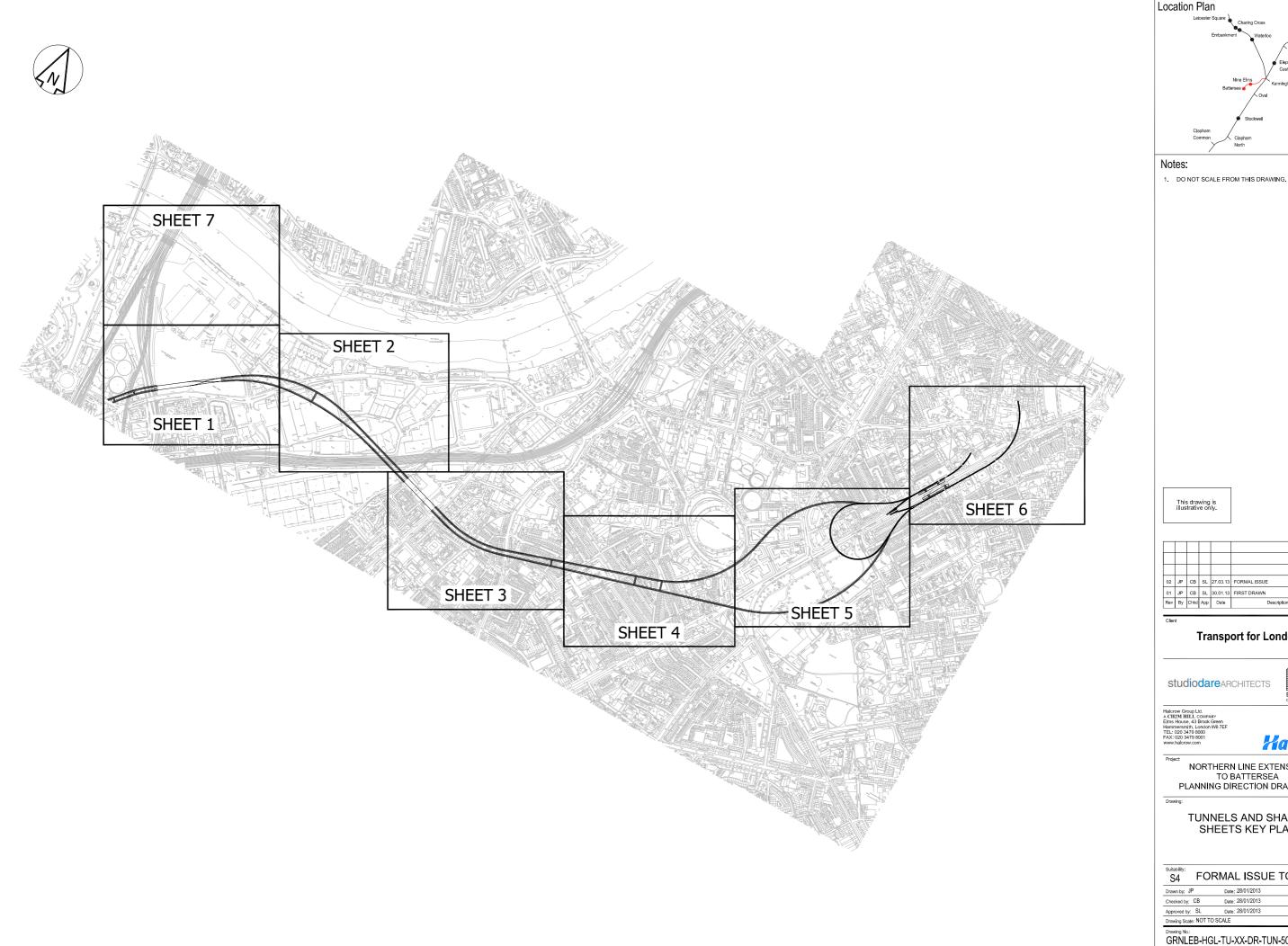
Reduced size versions

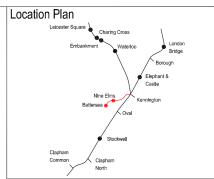


Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF WANDSWORTH, LAMBETH AND SOUTHWARK Location and Key Plan









02	JP	СВ	SL	27.03.13	FORMAL ISSUE
01	JP	СВ	SL	30.01.13	FIRST DRAWN
Rev	Ву	Chkd	App	Date	Description

Transport for London



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NORTHERN LINE EXTENSION TO BATTERSEA PLANNING DIRECTION DRAWINGS

TUNNELS AND SHAFTS SHEETS KEY PLAN

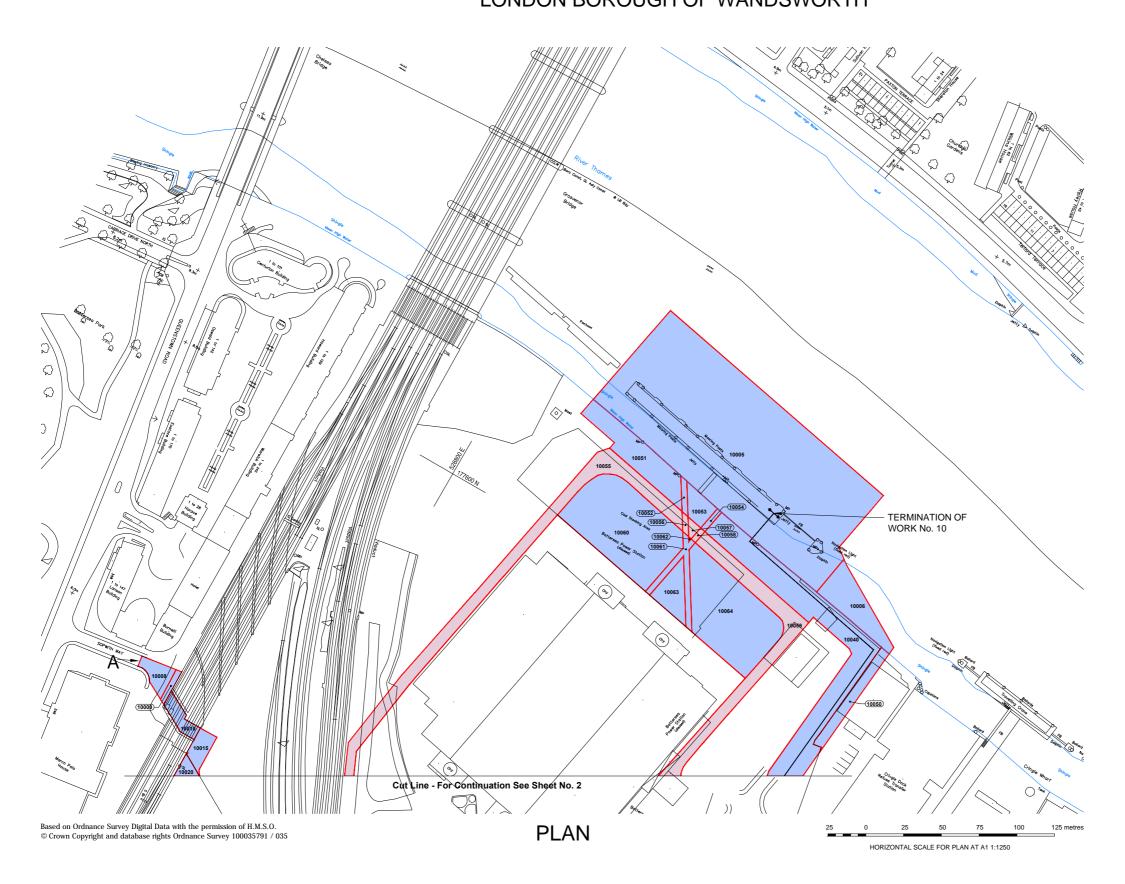
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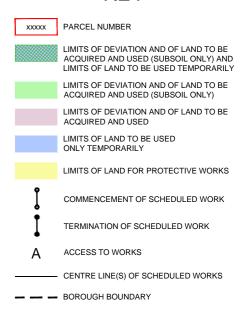
Date: 28/01/2013 Date: 28/01/2013



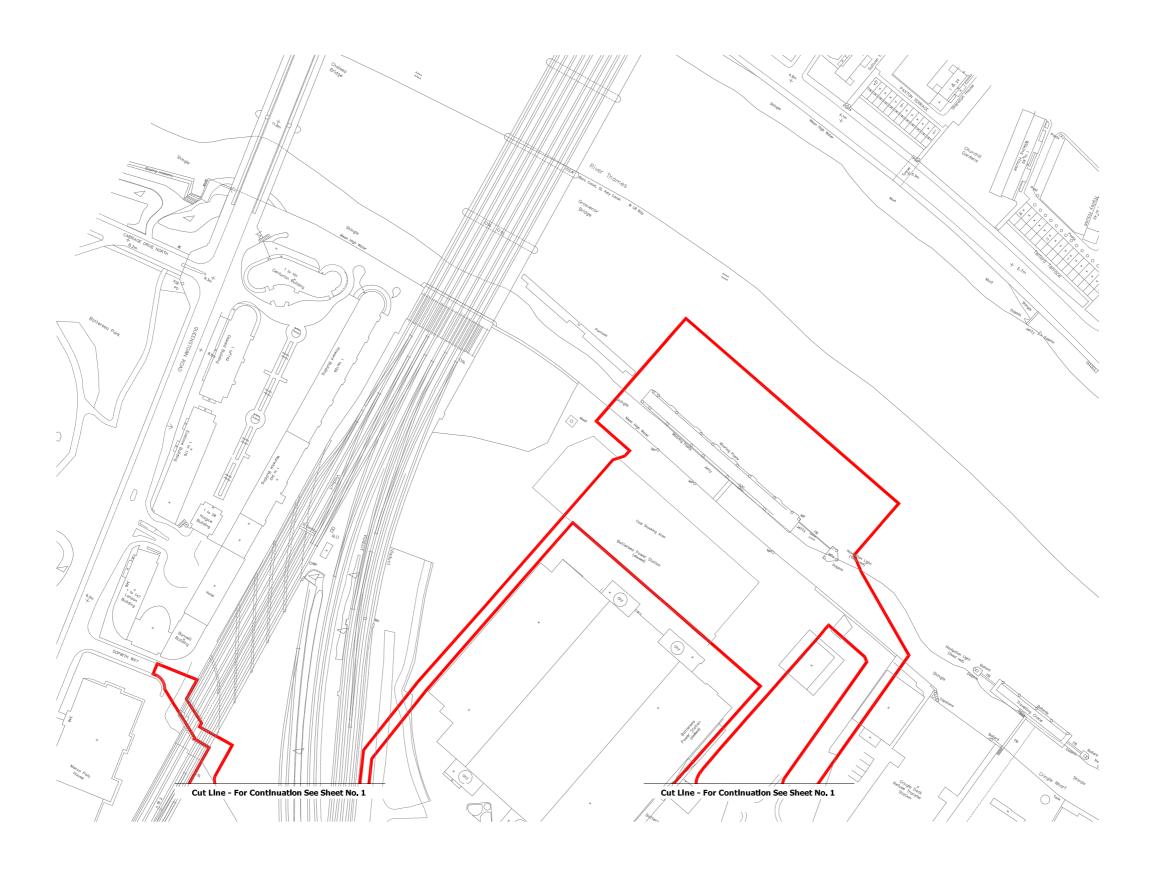
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGH OF WANDSWORTH

Work No. 10 (part) For Section of Work No. 10 see Sheet No. 19











1. DO NOT SCALE FROM THIS DRAWING.

Key:







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SCALE 1:2500 (A3)

03	JP	СВ	SL	27.03.13	FORMAL ISSUE.
					DRAWING TITLE CHANGED.
02	JP	СВ	SL	08.03.13	DEEMED PLANNING PERMISSION
					BOUNDARY ADDED.
					DEEP DATUM POINTS ADDED.
01	JP	СВ	SL	30.01.13	FIRST DRAWN
Rev	Ву	Chkd	App	Date	Description

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NORTHERN LINE EXTENSION TO BATTERSEA PLANNING DIRECTION DRAWINGS

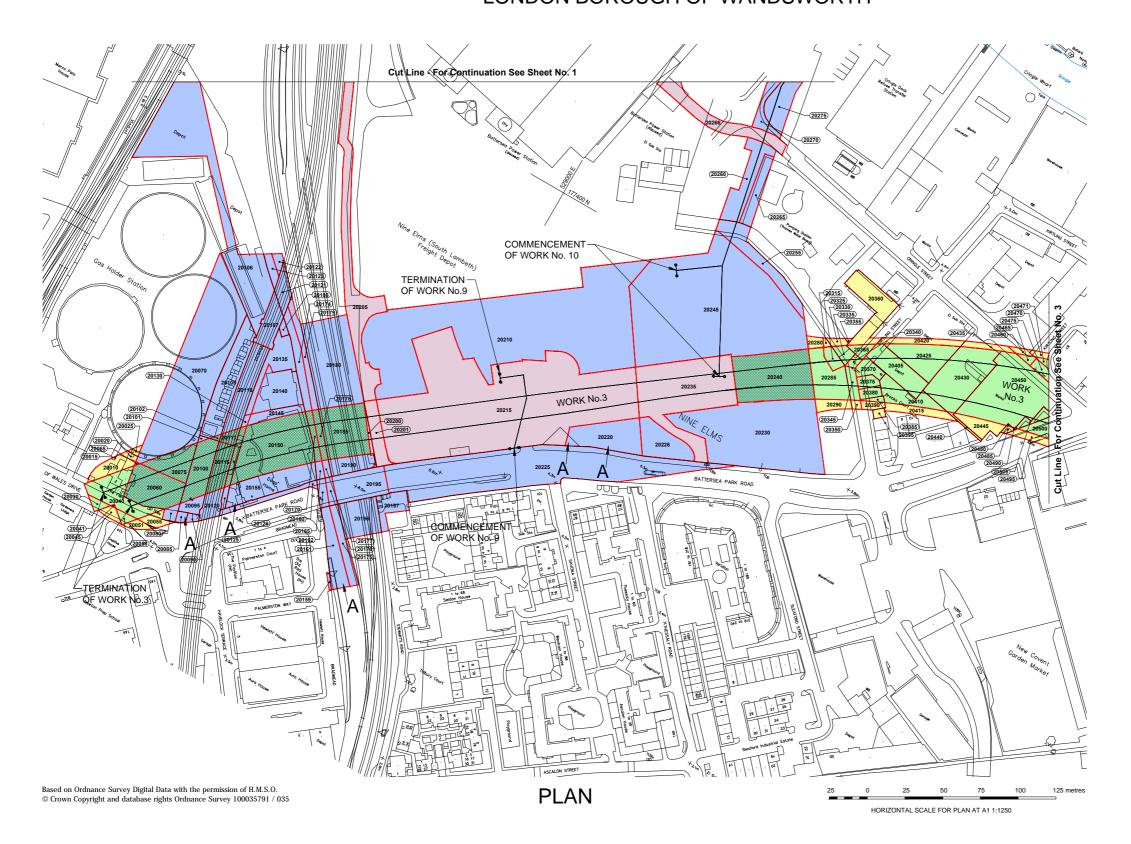
TUNNELS AND SHAFTS LOCATION PLAN SHEET 7 OF 7

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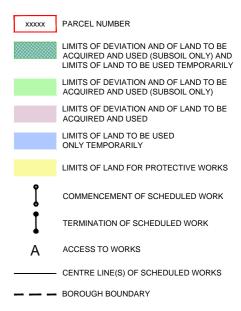
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Checked by: CB	Date: 28/01/2013	
Approved by: SL	Date: 28/01/2013	



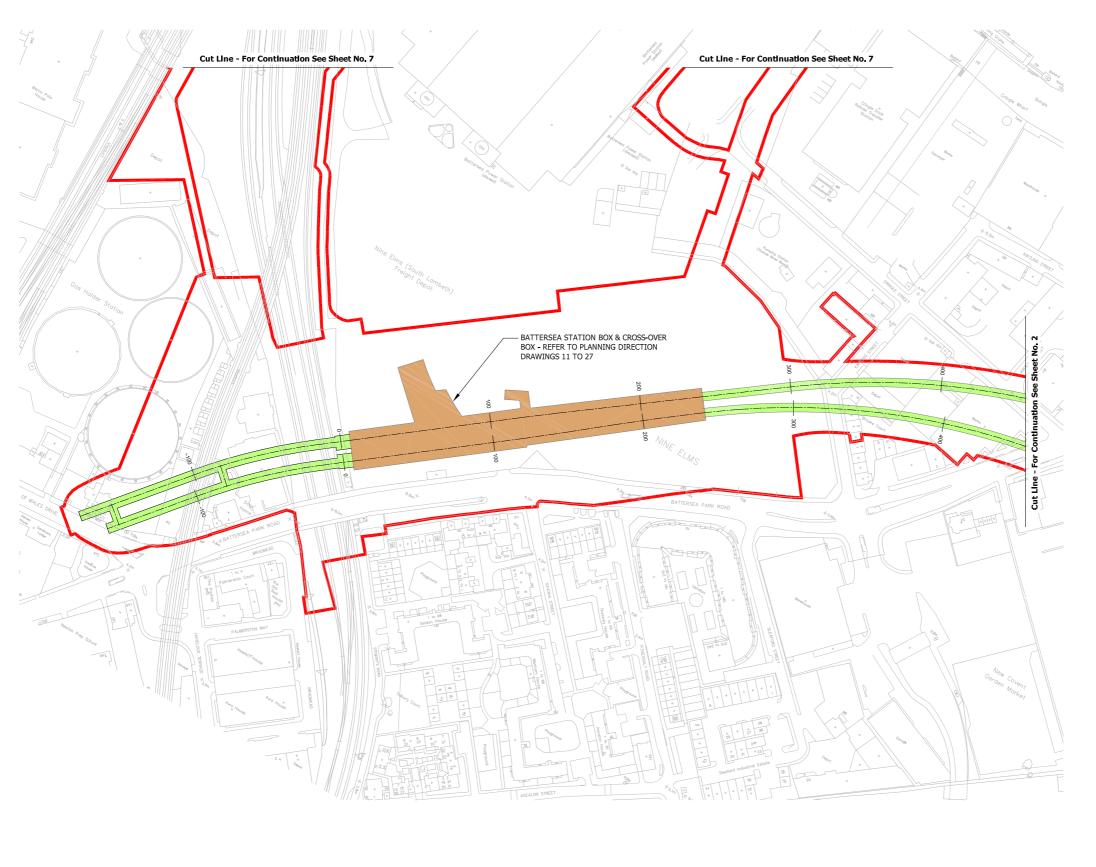
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGH OF WANDSWORTH



Work No. 3 (part), Work No. 9 and Work No. 10 (part) For Section of Work No. 3 see Sheet Nos. 8, 9 and 10 For Section of Work No. 9 see Sheet No. 18 For Section of Work No. 10 see Sheet No. 19









1. DO NOT SCALE FROM THIS DRAWING.

Key:



DEEMED PLANNING PERMISSION BOUNDARY

This drawing is illustrative only.

SCALE 1:1250 (A1) SCALE 1:2500 (A3)

03	JP	CB	SL	25.03.13	MINOR CHANGES. FORMAL ISSUE.
02	JP	СВ	SL	08.03.13	DEEMED PLANNING PERMISSION
					BOUNDARY ADDED.
					DEEP DATUM POINTS ADDED.
01	JP	СВ	SL	30.01.13	FIRST DRAWN
Rev	Ву	Chkd	App	Date	Description

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NORTHERN LINE EXTENSION TO BATTERSEA PLANNING DIRECTION DRAWINGS

TUNNELS AND SHAFTS LOCATION PLAN SHEET 1 OF 7

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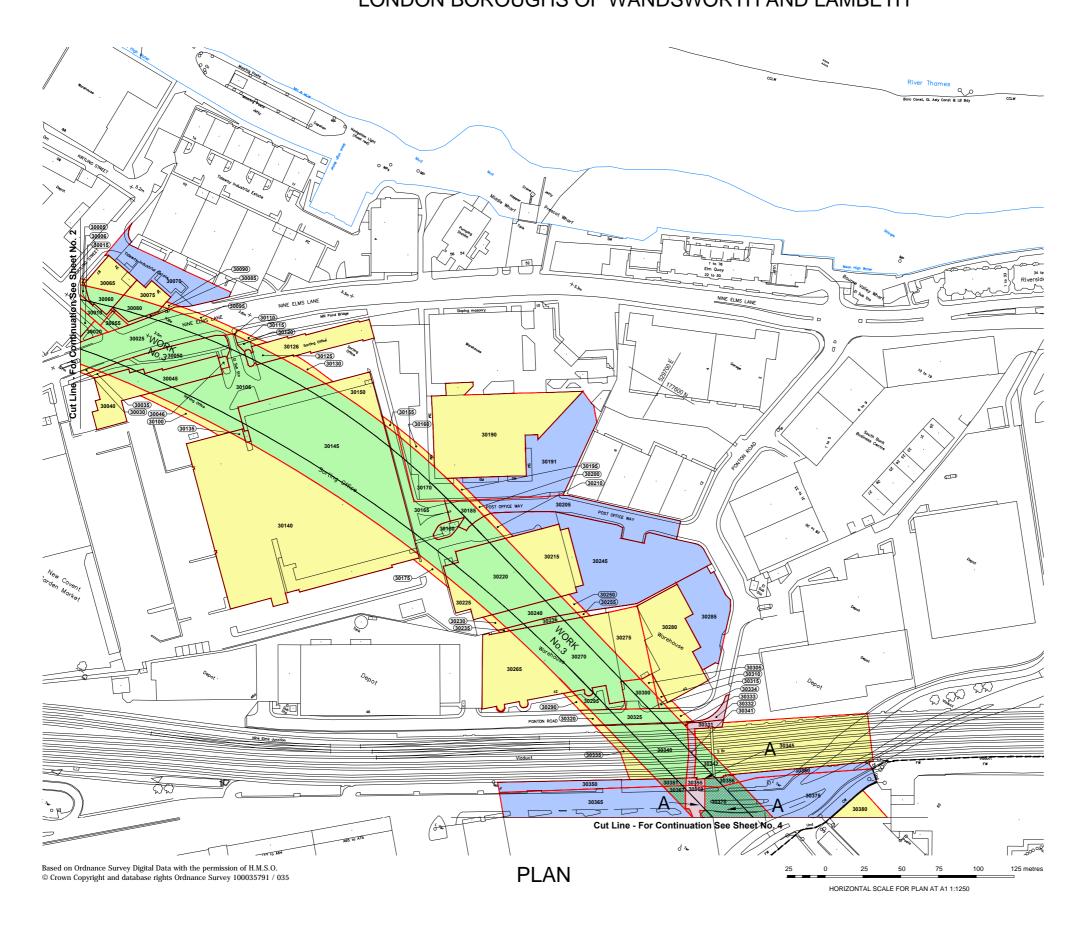
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Approved by: SL	Date: 28/01/2013	

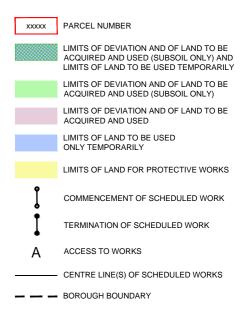
GRNLEB-HGL-TU-XX-DR-TUN-50201 PLANNING DIRECTION DRAWING NUMBER 02

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Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF WANDSWORTH AND LAMBETH

Work No. 3 (part) For Section of Work No. 3 see Sheet Nos. 8, 9 and 10











1. DO NOT SCALE FROM THIS DRAWING.

Key:





SCALE 1:1250 (A1) SCALE 1:2500 (A3)

03 JP CB SL 27.03.13 FORMALISSUE. DRAWING TITLE CHANGED. BOUNDARY ADDED. DEEP DATUM POINTS ADDED.

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NORTHERN LINE EXTENSION TO BATTERSEA PLANNING DIRECTION DRAWINGS

TUNNELS AND SHAFTS LOCATION PLAN SHEET 2 OF 7

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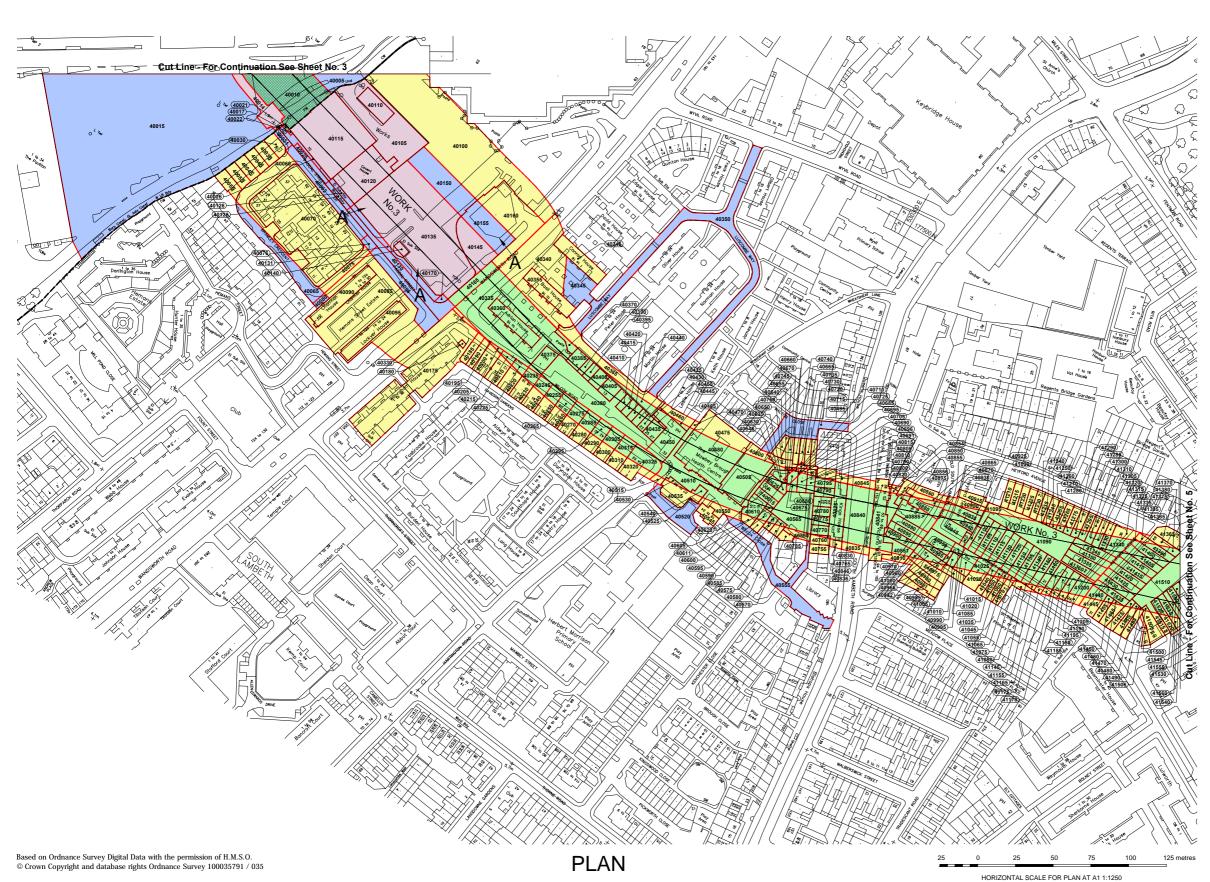
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Checked by: CB	Date: 28/01/2013	
Approved by: SL	Date: 28/01/2013	

| Drawing Scale:1:1250 @A1 | Drawing No. | Revision: | GRNLEB-HGL-TU-XX-DR-TUN-50202 | 03 |

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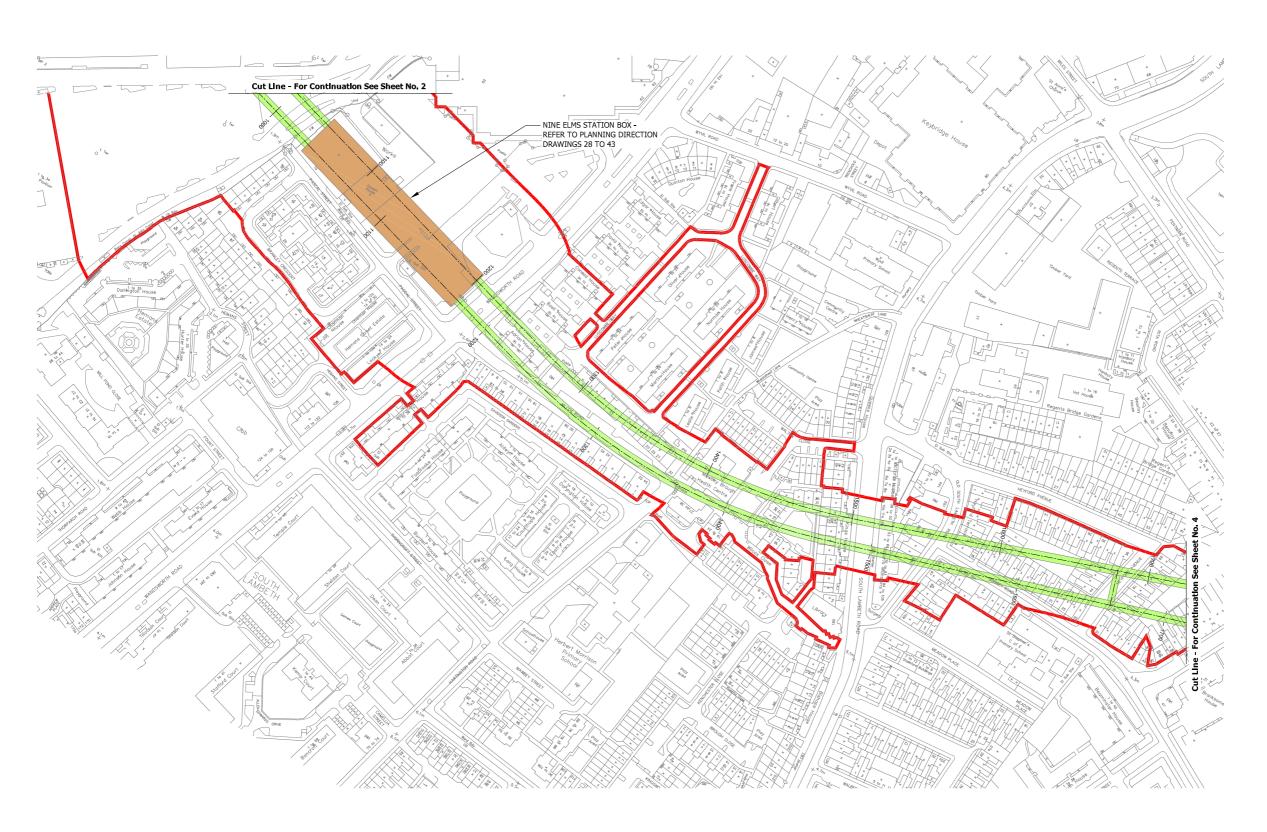
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF WANDSWORTH AND LAMBETH

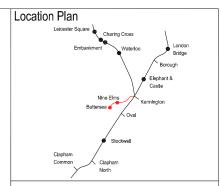
 $\label{eq:work No. 3 (part)} Work \mbox{ No. 3 (part)}$ For Section of Work No. 3 see Sheet Nos. 8, 9 and 10











1. DO NOT SCALE FROM THIS DRAWING.

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	This drawing is illustrative only

SCALE 1:1250 (A1) SCALE 1:2500 (A3)

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						BOUNDARY ADDED.
						DEEP DATUM POINTS ADDED.
	01	JP	СВ	SL	30.01.13	FIRST DRAWN
	Rev	Ву	Chkd	App	Date	Description

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NORTHERN LINE EXTENSION TO BATTERSEA PLANNING DIRECTION DRAWINGS

TUNNELS AND SHAFTS LOCATION PLAN SHEET 3 OF 7

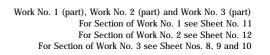
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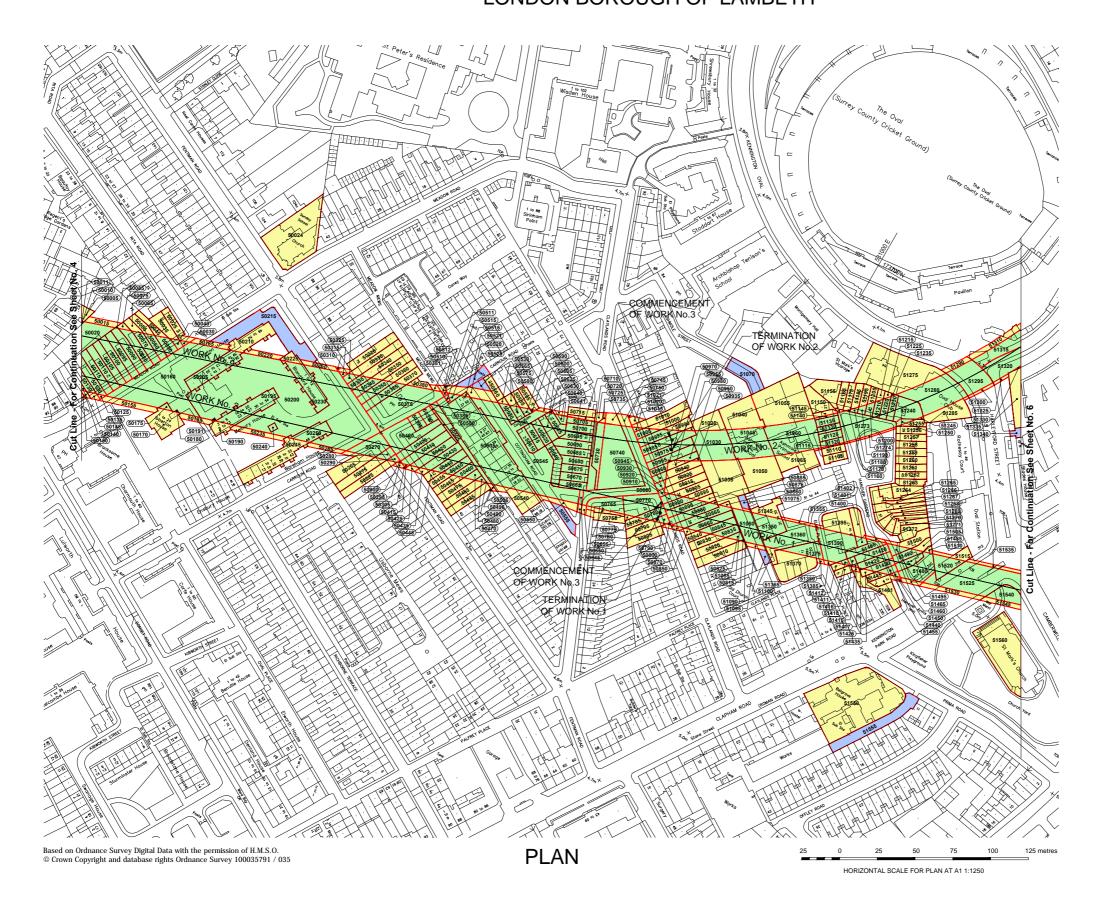
Drawn by: JP	Date: 28/01/2013
Checked by: CB	Date: 28/01/2013
Approved by: SL	Date: 28/01/2013

| Drawing Scale: 1:1250 @A1 | Drawing No.: | GRNLEB-HGL-TU-XX-DR-TUN-50203 | Revision: 03

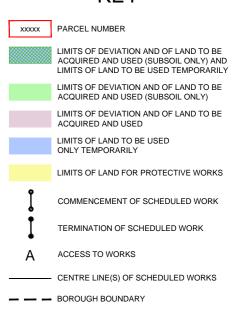


Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGH OF LAMBETH













1. DO NOT SCALE FROM THIS DRAWING.









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SCALE 1:1250 (A1) SCALE 1:2500 (A3)

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						DRAWING TITLE CHANGED.
	02	JP	СВ	SL	08.03.13	DEEMED PLANNING PERMISSION
						BOUNDARY ADDED.
						DEEP DATUM POINTS ADDED.
	01	JP	СВ	SL	30.01.13	FIRST DRAWN
	Rev	Ву	Chkd	App	Date	Description

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NORTHERN LINE EXTENSION TO BATTERSEA PLANNING DIRECTION DRAWINGS

TUNNELS AND SHAFTS LOCATION PLAN SHEET 4 OF 7

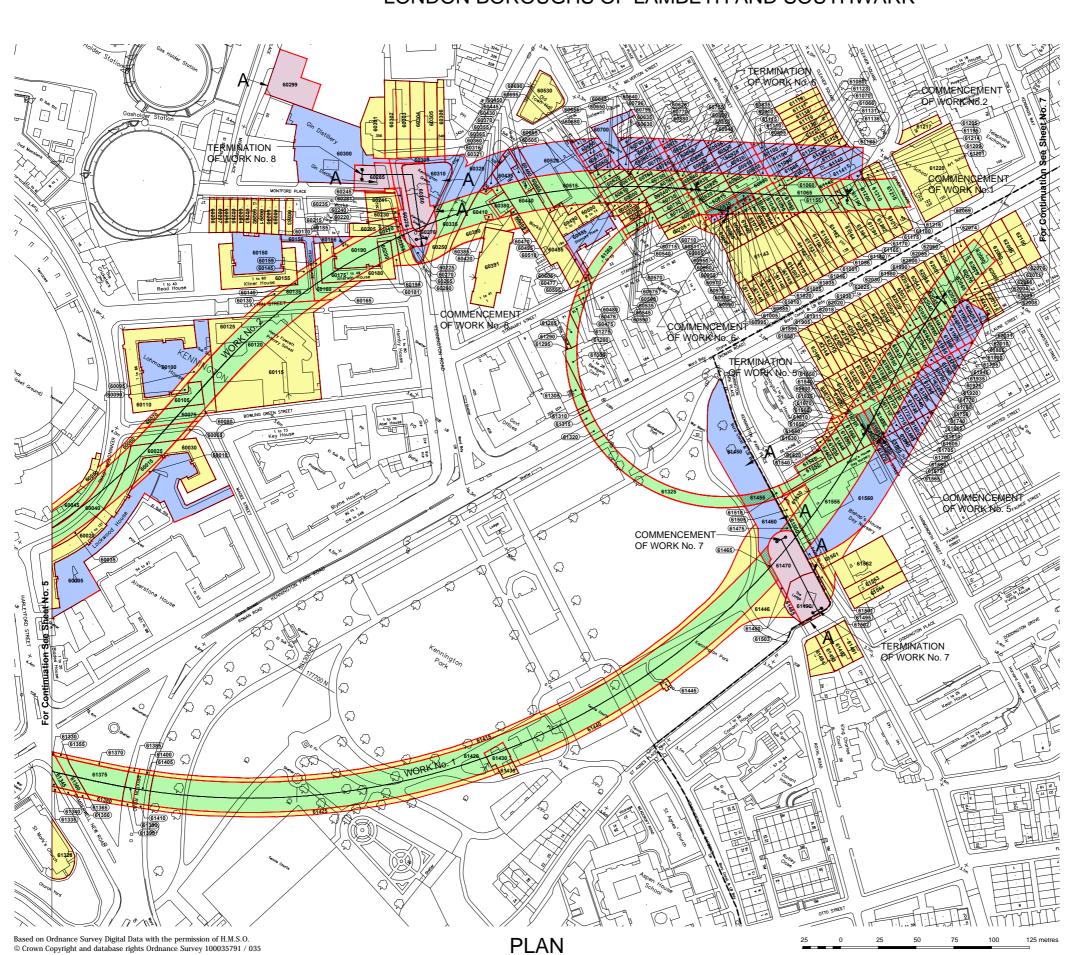
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Drawn by: JP	Date: 28/01/2013
Checked by: CB	Date: 28/01/2013
Approved by: SL	Date: 28/01/2013



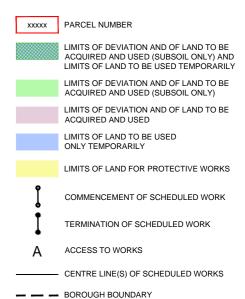
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF LAMBETH AND SOUTHWARK

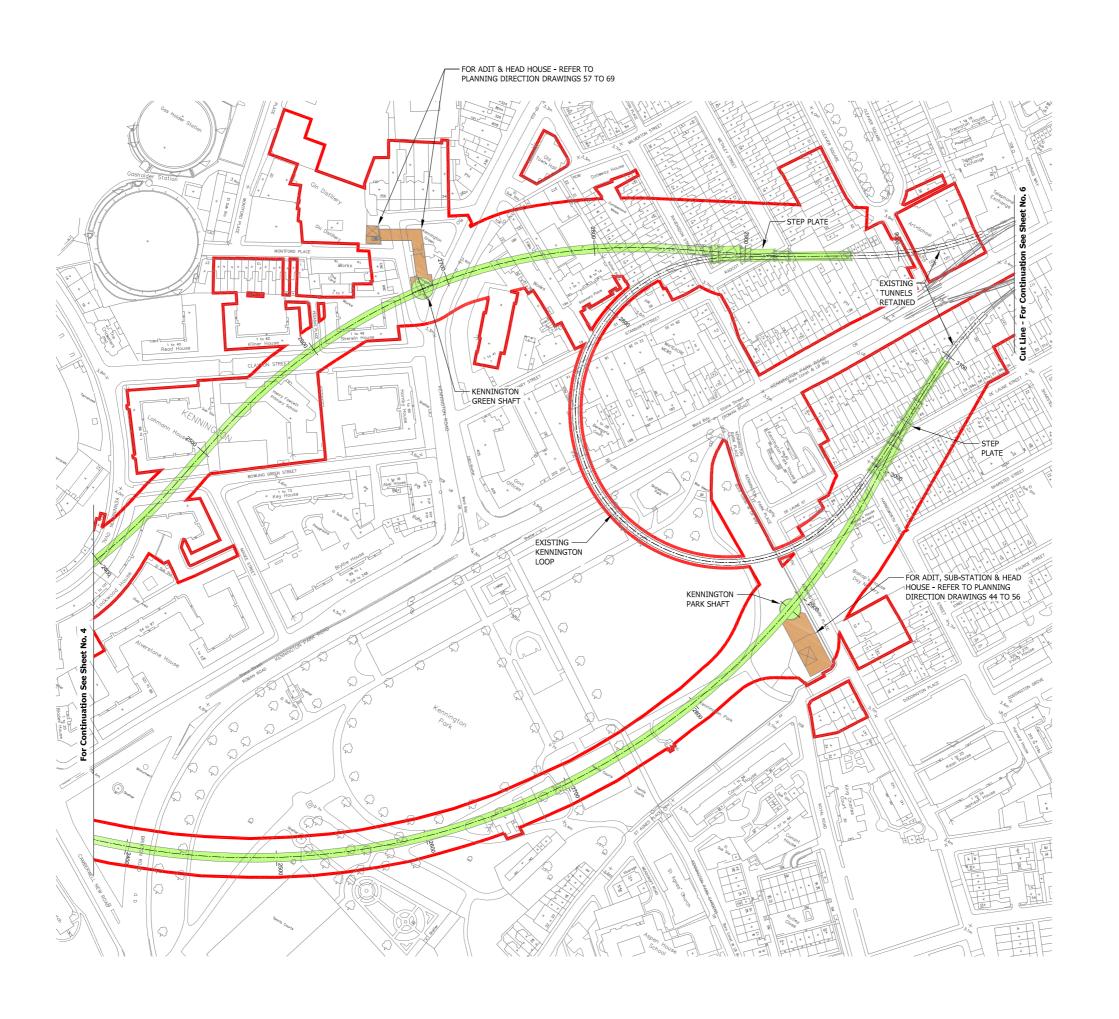
HORIZONTAL SCALE FOR PLAN AT A1 1:1250



Sheet No. 6

Work No. 1 (part), Work No. 2 (part), Work No. 5, Work No. 6, Work No. 7 and Work No. 8 For Section of Work No. 1 see Sheet No. 11 For Section of Work No. 2 see Sheet No. 12 For Section of Work No. 5 see Sheet No. 17 For Section of Work No. 6 see Sheet No. 16 For Section of Work No. 7 see Sheet No. 16







1. DO NOT SCALE FROM THIS DRAWING.

Key:







SCALE 1:1250 (A1) SCALE 1:2500 (A3)

_			_	_	
04	JP	СВ	SL	10.04.13	MINOR CHANGES.
03	JP	СВ	SL	27.03.13	MINOR CHANGES. FORMAL ISSUE.
02	JP	СВ	SL	08.03.13	DEEMED PLANNING PERMISSION
					BOUNDARY ADDED.
					DEEP DATUM POINTS ADDED.
01	JP	СВ	SL	30.01.13	FIRST DRAWN
Rev	Ву	Chkd	App	Date	Description

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NORTHERN LINE EXTENSION
TO BATTERSEA
PLANNING DIRECTION DRAWINGS

TUNNELS AND SHAFTS LOCATION PLAN SHEET 5 OF 7

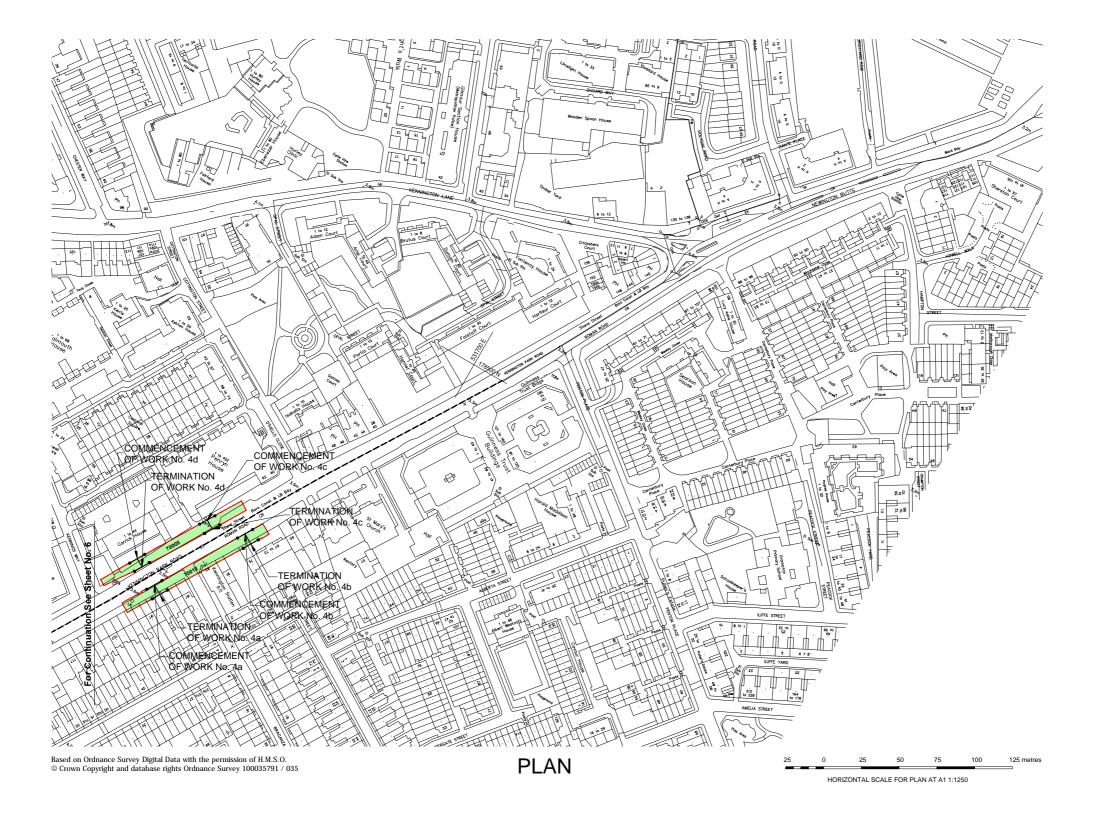
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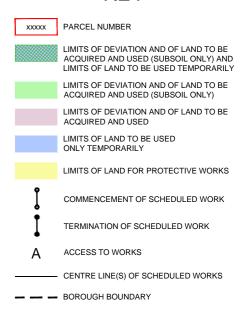
Drawn by: JP	Date: 28/01/2013
Checked by: CB	Date: 28/01/2013
Approved by: SL	Date: 28/01/2013

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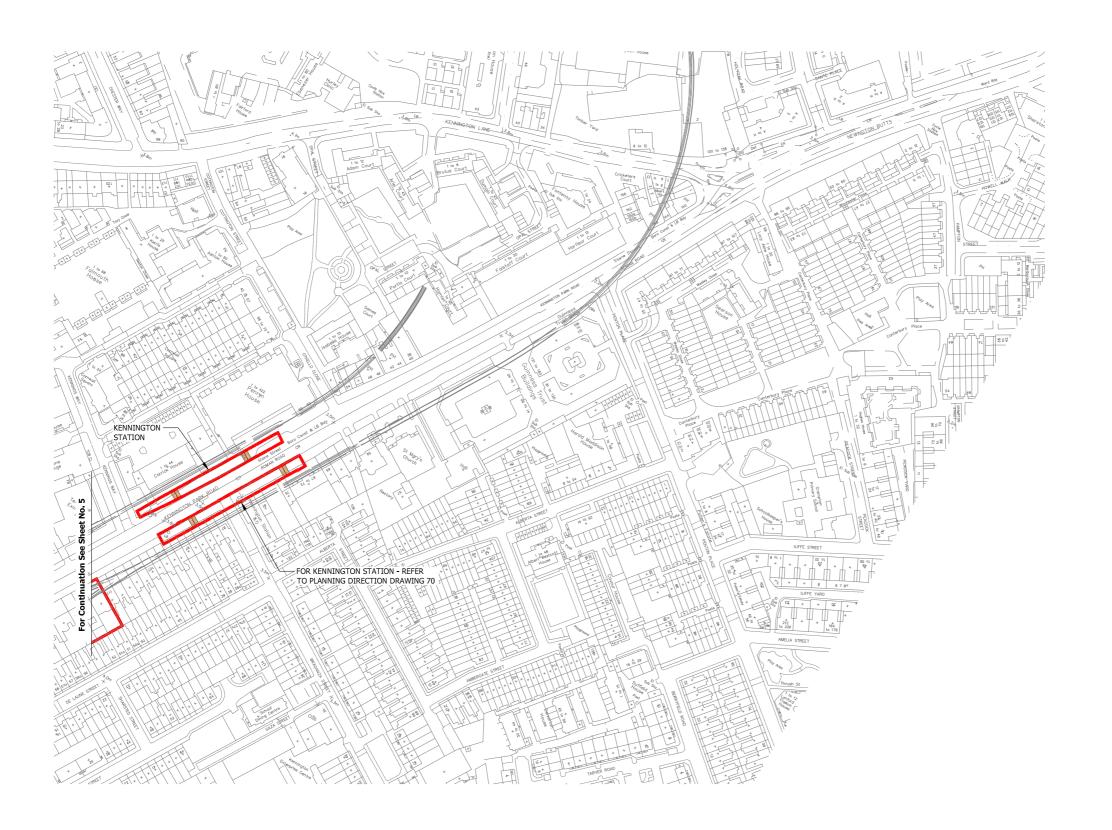
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF LAMBETH AND SOUTHWARK

Work No. 4a, Work No. 4b, Work No. 4c and Work No. 4d For Sections of Work Nos. 4a, 4b, 4c and 4d see Sheet No. 18











1. DO NOT SCALE FROM THIS DRAWING.

Key:



This drawing is illustrative only.

0 10 20 30 40 50 60 70 80 90 1 SCALE 1:1250 (A1) SCALE 1:2500 (A3)

| 03 JP C8 SL 27.03.13 MINOR CHANGES. FORMAL ISSUE. | 02 JP C8 SL 08.03.13 DEEMED PLANNING PERMISSION | BOUNDARY ADDED. | DEEP DATUM POINTS ADDED. | 01 JP C8 SL 30.01.1 FIRST DRAWN

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NORTHERN LINE EXTENSION TO BATTERSEA PLANNING DIRECTION DRAWINGS

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TUNNELS AND SHAFTS LOCATION PLAN SHEET 6 OF 7

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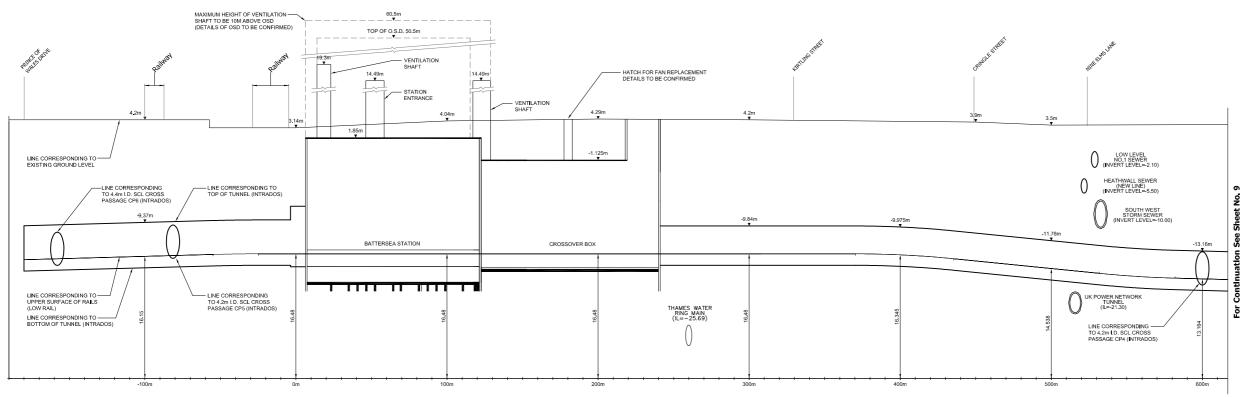
 Checked by:
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 Date:
 28/01/2013

 Approved by:
 SL
 Date:
 28/01/2013

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GRNLEB-HGL-TU-XX-DR-TUN-50206 03

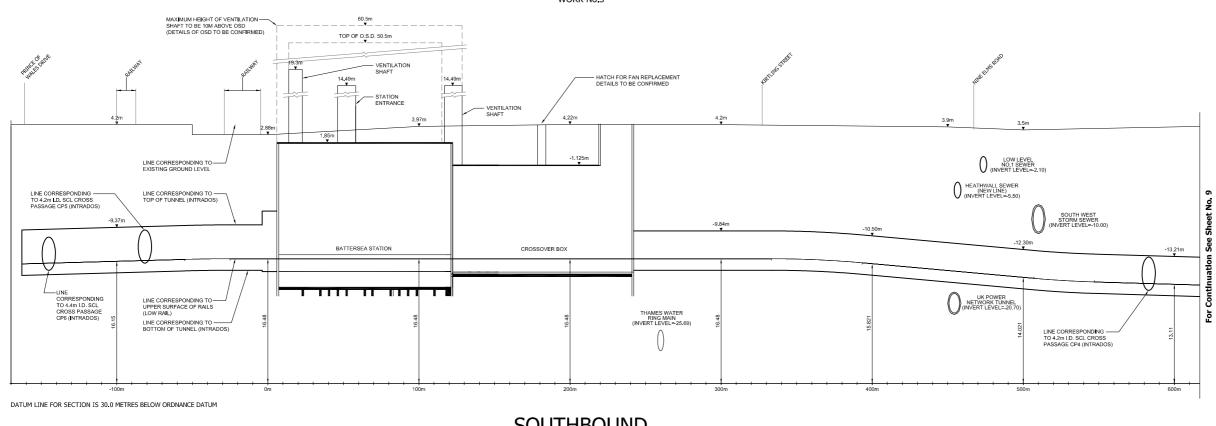
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGH OF WANDSWORTH



DATUM LINE FOR SECTION IS 30.0 METRES BELOW ORDNANCE DATUM

NORTHBOUND

WORK No.3



SOUTHBOUND

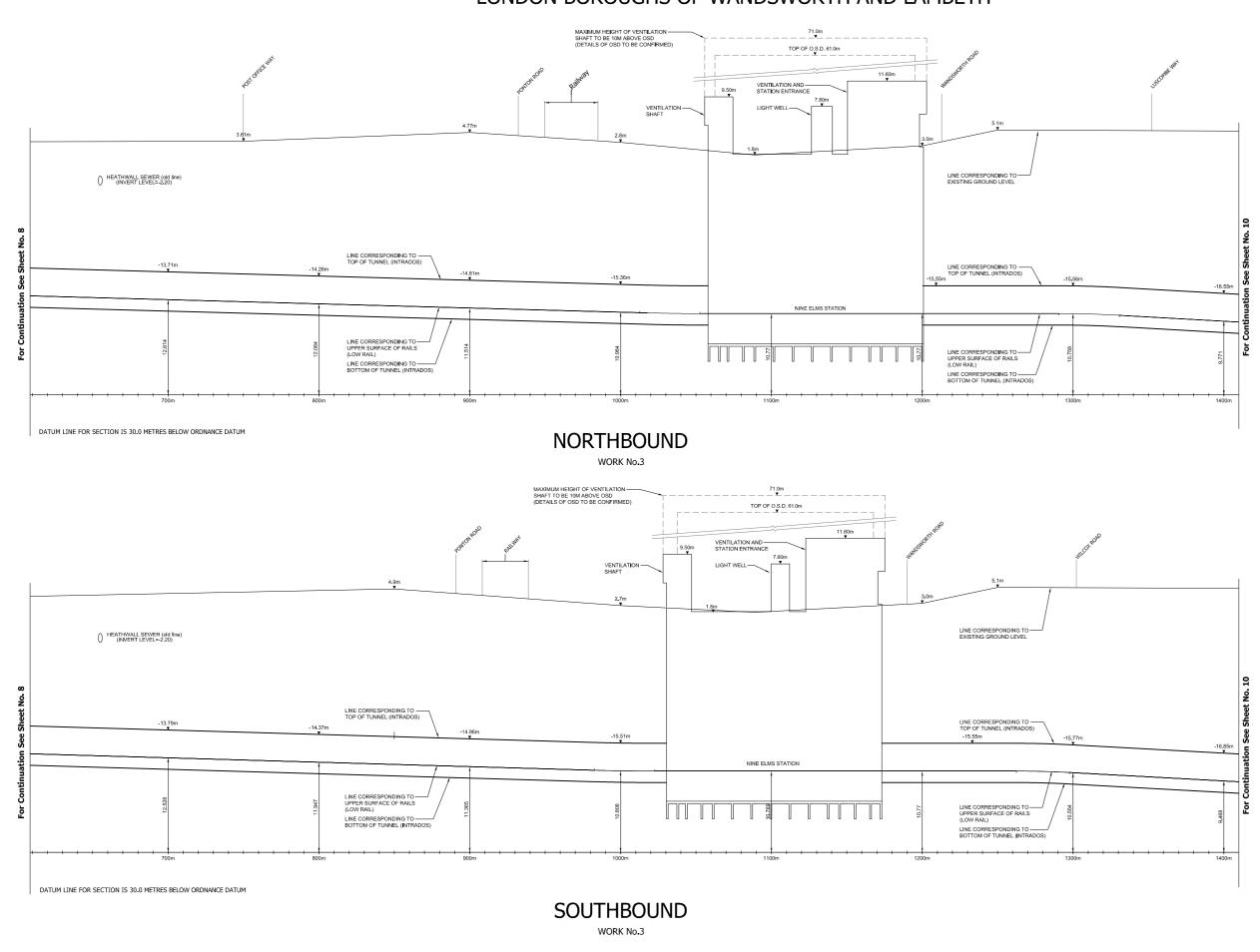
WORK No.3



LONGITUDINAL **SECTIONS**



Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF WANDSWORTH AND LAMBETH

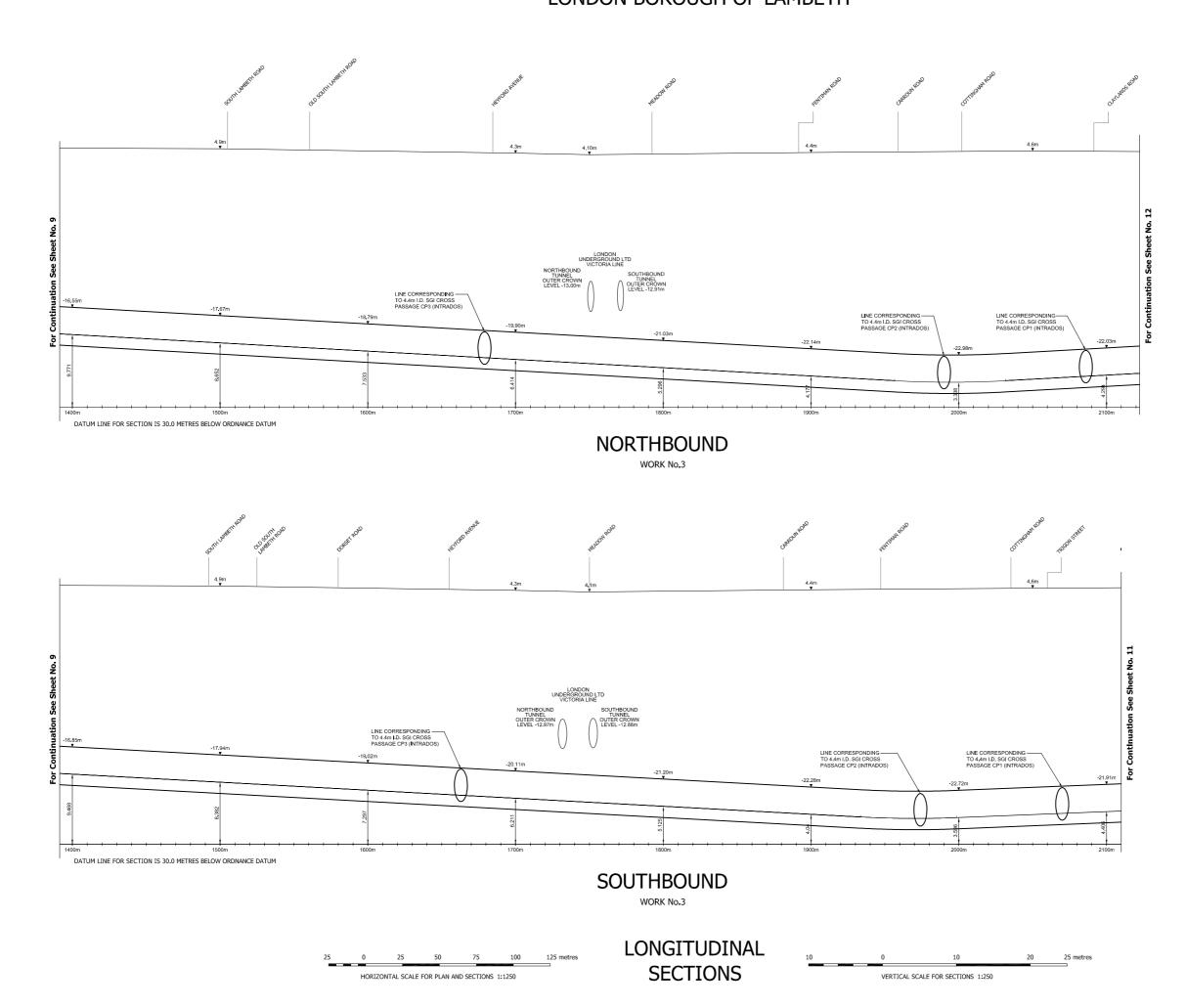


HORIZONTAL SCALE FOR PLAN AND SECTIONS 1:1250

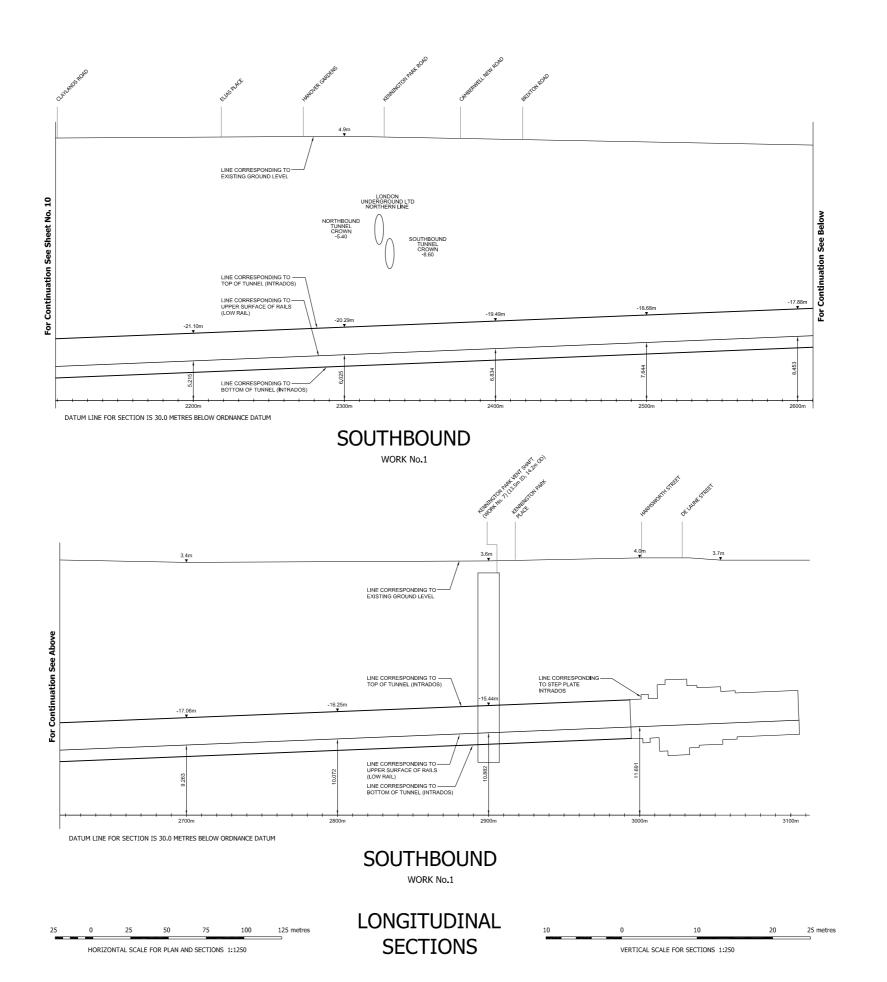
LONGITUDINAL SECTIONS

VERTICAL SCALE FOR SECTIONS 1:250

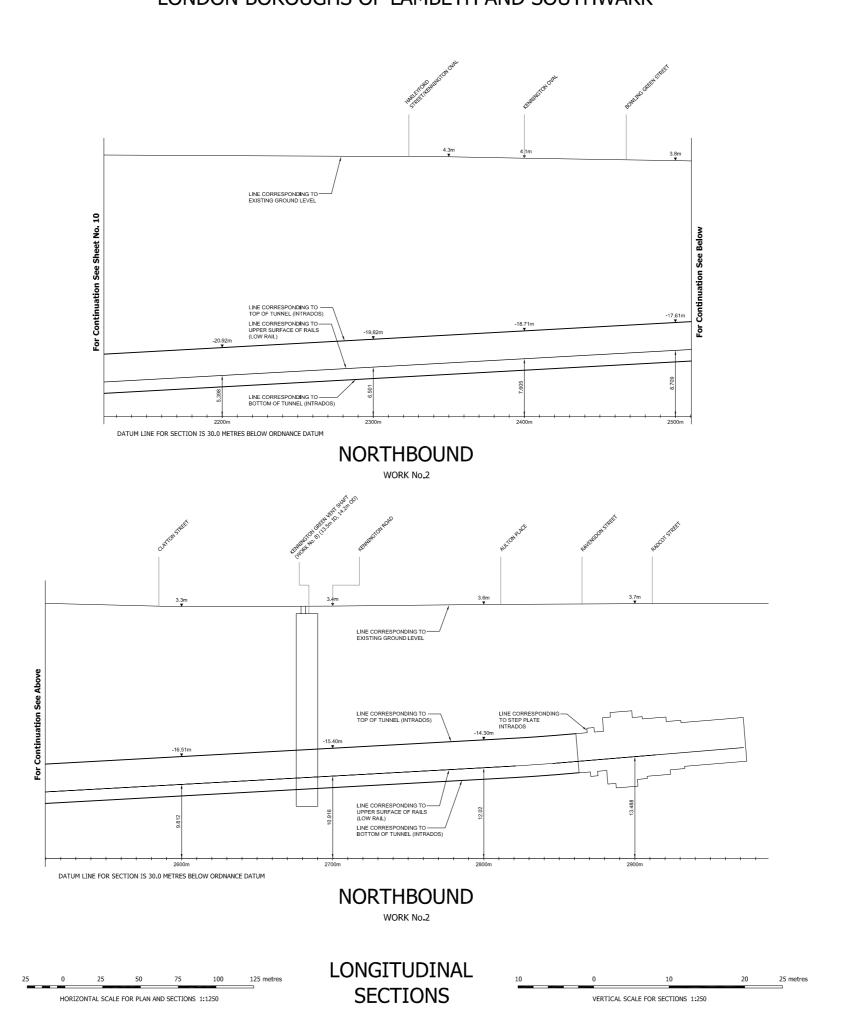
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGH OF LAMBETH



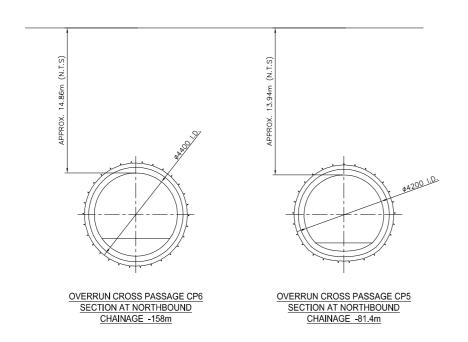
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF LAMBETH AND SOUTHWARK

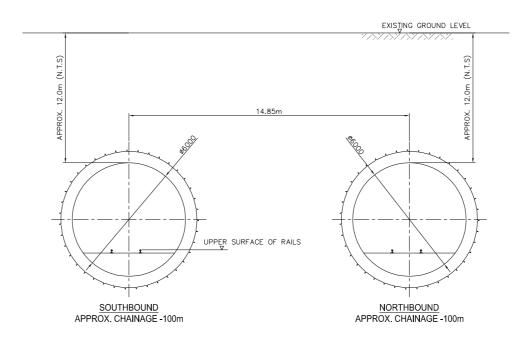


Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF LAMBETH AND SOUTHWARK

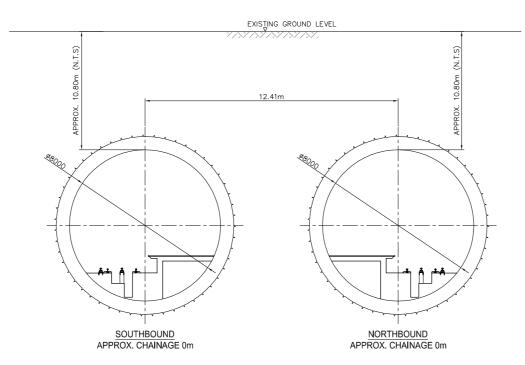


Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGH OF WANDSWORTH





TYPICAL OVERRUN RUNNING TUNNEL SECTIONS

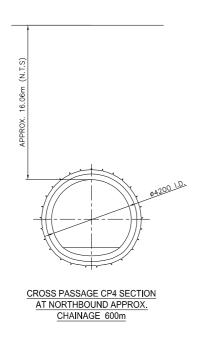


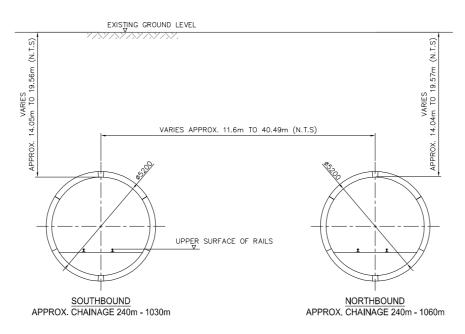
TYPICAL PLATFORM TUNNEL SECTIONS

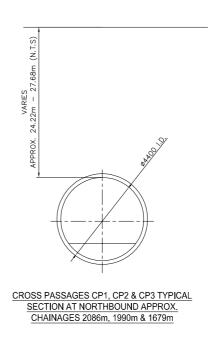
CROSS SECTIONS



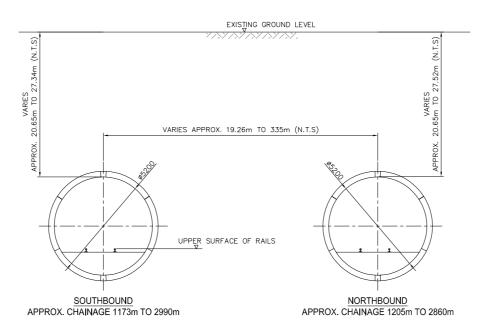
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF WANDSWORTH, LAMBETH AND SOUTHWARK







TYPICAL RUNNING TUNNEL SECTIONS

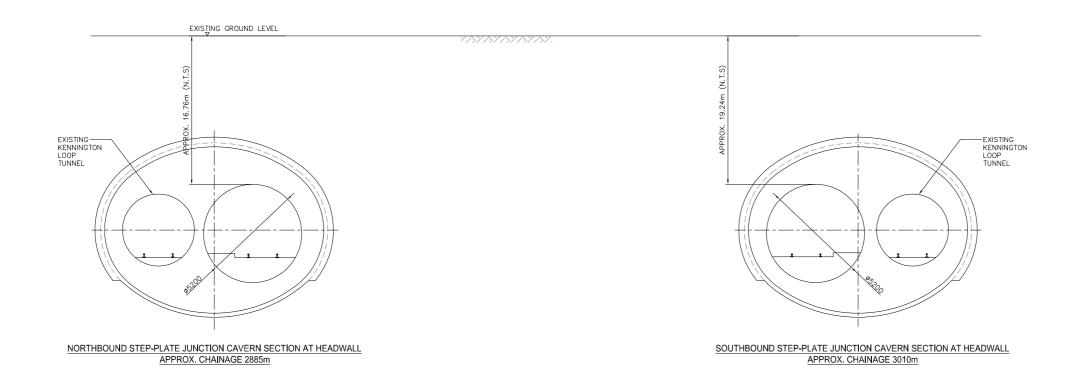


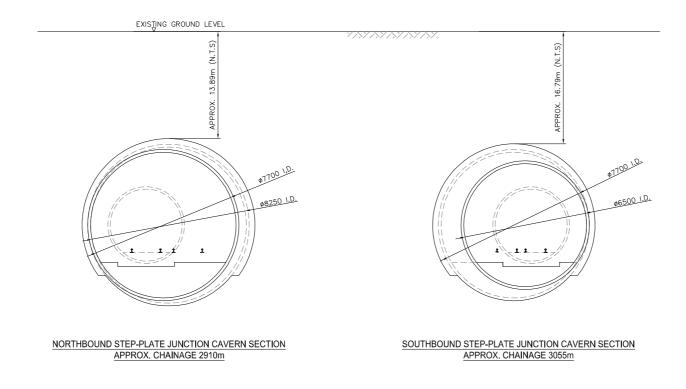
TYPICAL RUNNING TUNNEL SECTIONS

CROSS SECTIONS



Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF LAMBETH AND SOUTHWARK

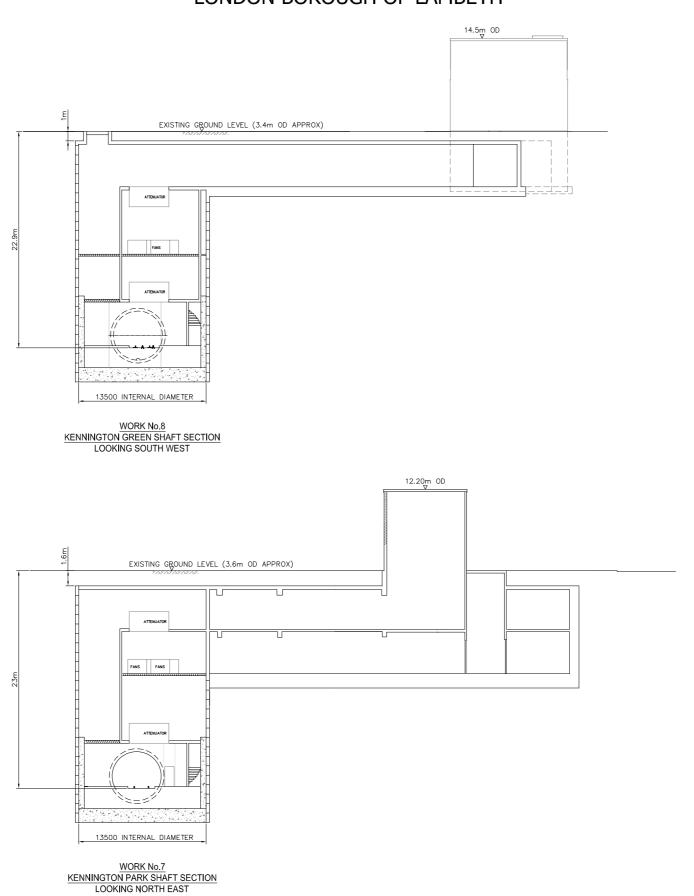




CROSS SECTIONS



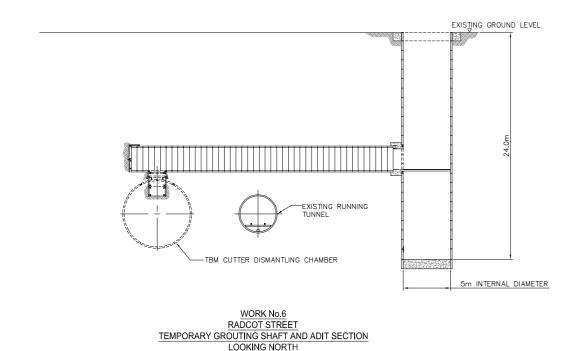
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGH OF LAMBETH

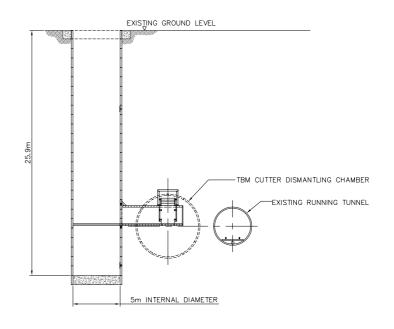


LONGITUDINAL SECTIONS AND CROSS SECTIONS



Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF LAMBETH AND SOUTHWARK





WORK No.5 HARMSWORTH STREET TEMPORARY GROUTING SHAFT AND ADIT SECTION LOOKING SOUTH WEST

LONGITUDINAL SECTIONS AND CROSS SECTIONS

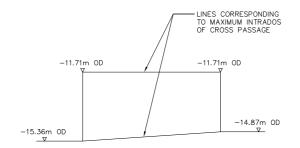
Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGHS OF WANDSWORTH AND SOUTHWARK



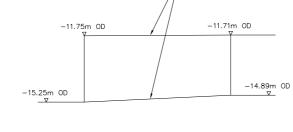
WORK No.9

BATTERSEA STATION TEMPORARY ROAD

LOOKING WEST

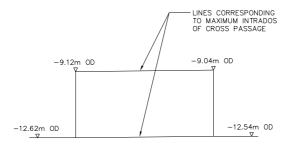


WORK No.4a KENNINGTON STATION CROSS PASSAGE LOOKING NORTH EAST

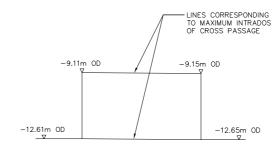


- LINES CORRESPONDING TO MAXIMUM INTRADOS OF CROSS PASSAGE

WORK No.4b KENNINGTON STATION CROSS PASSAGE LOOKING NORTH EAST



WORK No.4c KENNINGTON STATION CROSS PASSAGE LOOKING NORTH EAST

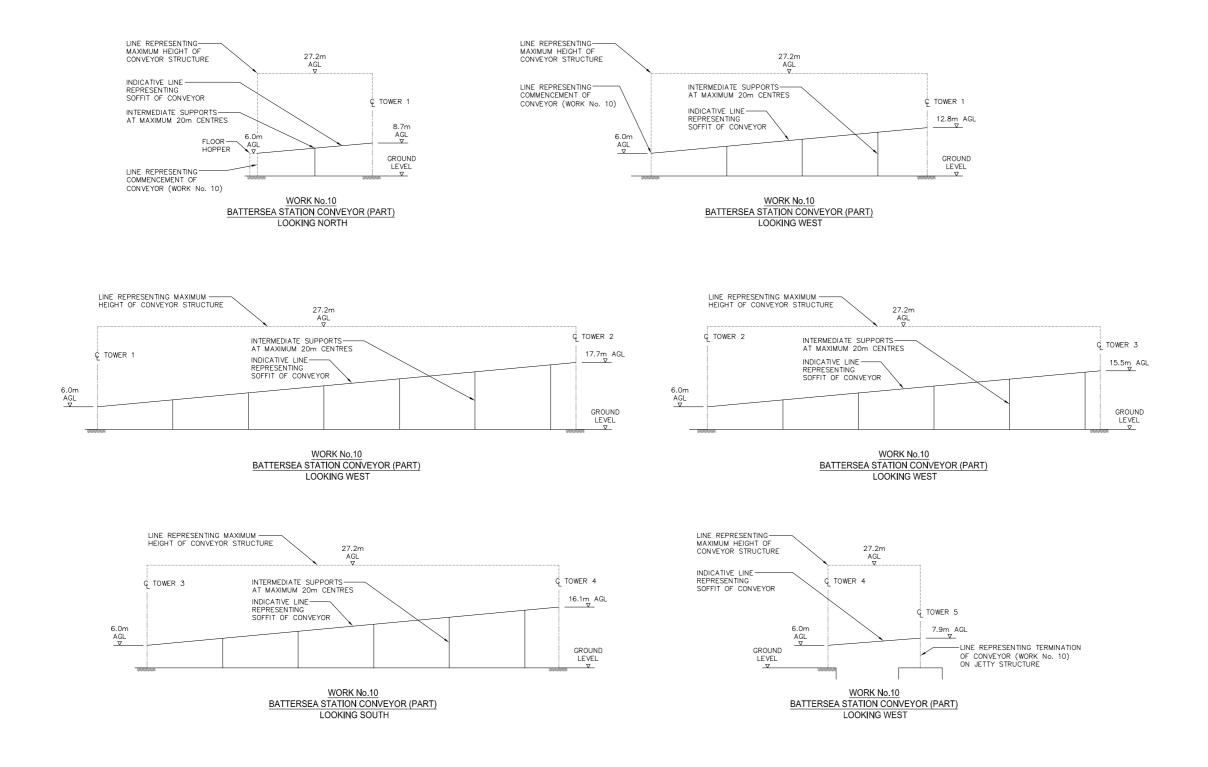


WORK No.4d KENNINGTON STATION CROSS PASSAGE LOOKING NORTH EAST

LONGITUDINAL SECTIONS



Transport and Works Act 1992 London Underground (Northern Line Extension) Order LONDON BOROUGH OF WANDSWORTH



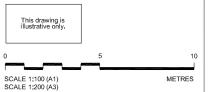
LONGITUDINAL SECTIONS



TYPICAL RUNNING TUNNEL SECTIONS



- 1. DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE.
- OVERRUN TUNNELS, PLATFORM TUNNELS AND CROSS PASSAGE SECTION CAN BE ADDED IF REQUIRED.
- 4. N.T.S. DENOTES NOT TO SCALE.



02	JP	СВ	SL	27.03.13	MINOR CHANGES, FORMALISSUE.
01	JP	СВ	SL	08.03.13	FIRST DRAWN.
Rev	Ву	Chkd	Арр	Date	Description

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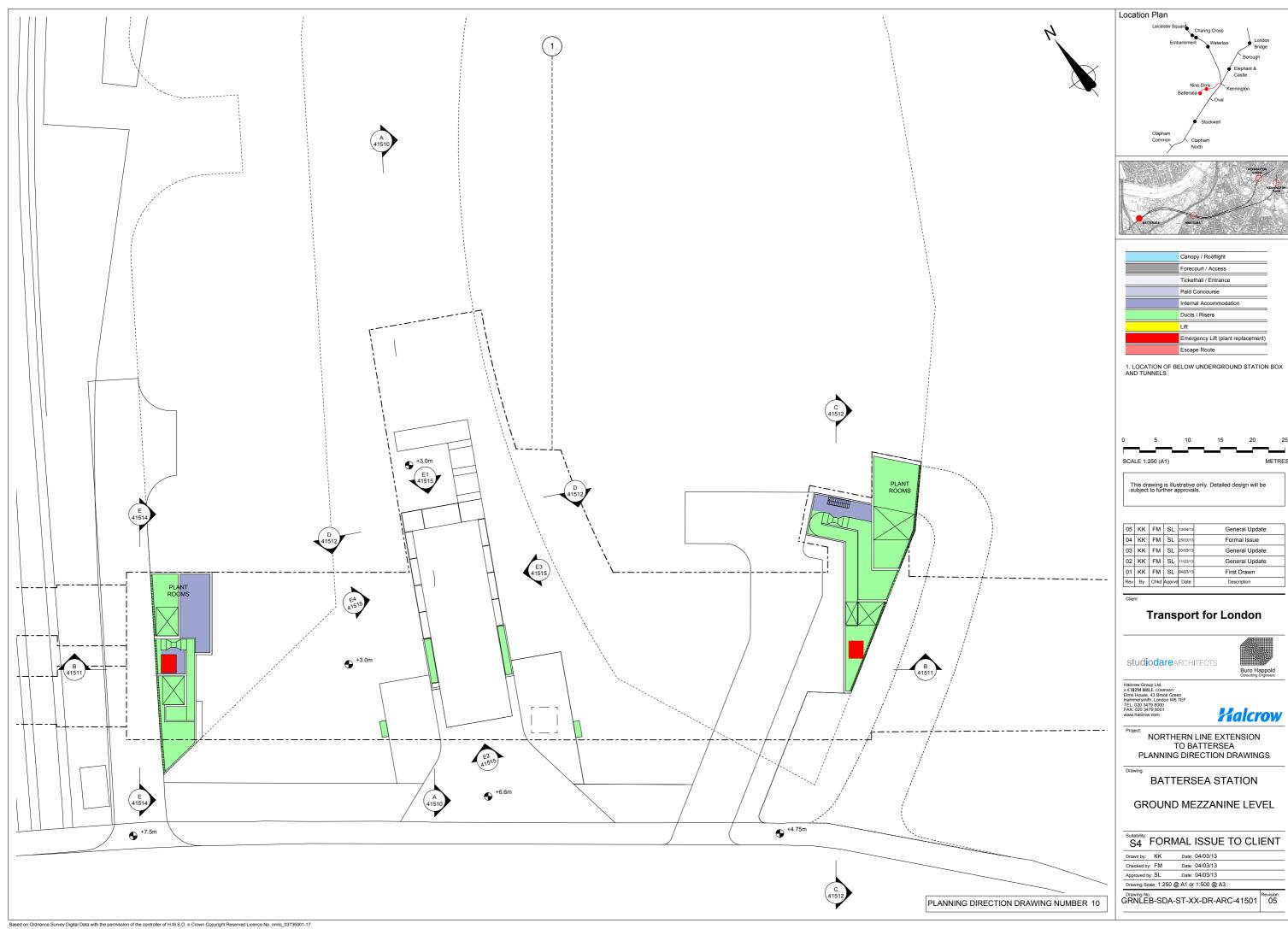
Halcrow Group Ltd.
A CH2M HILL COMPAN;
Elms House, 43 Brook Gi
Hammersmith, London W
TEL: 020 3479 8000
FAX: 020 3479 8001

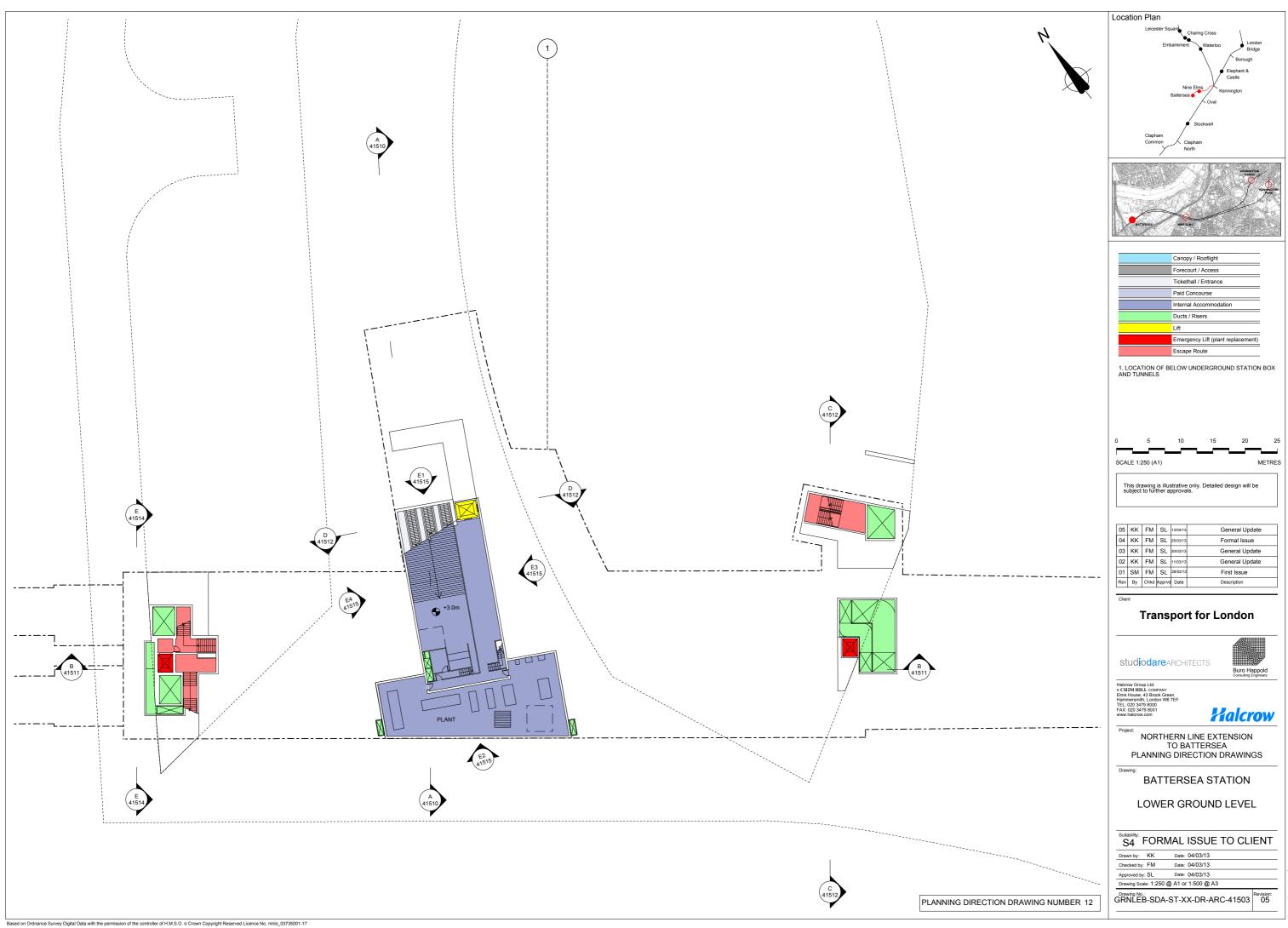
Halcrow

NORTHERN LINE EXTENSION
TO BATTERSEA
PLANNING DIRECTION DRAWINGS

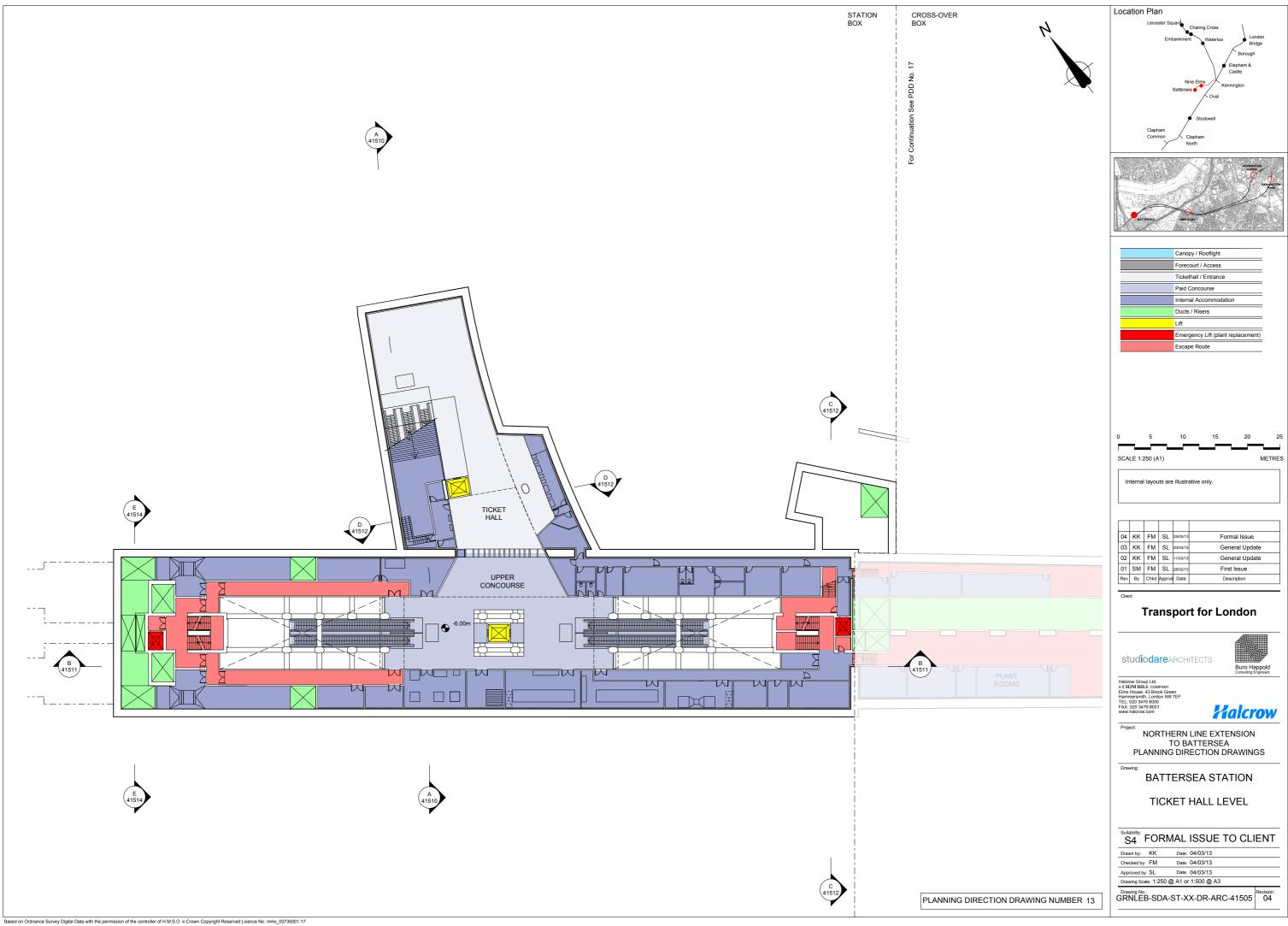
Drawing:

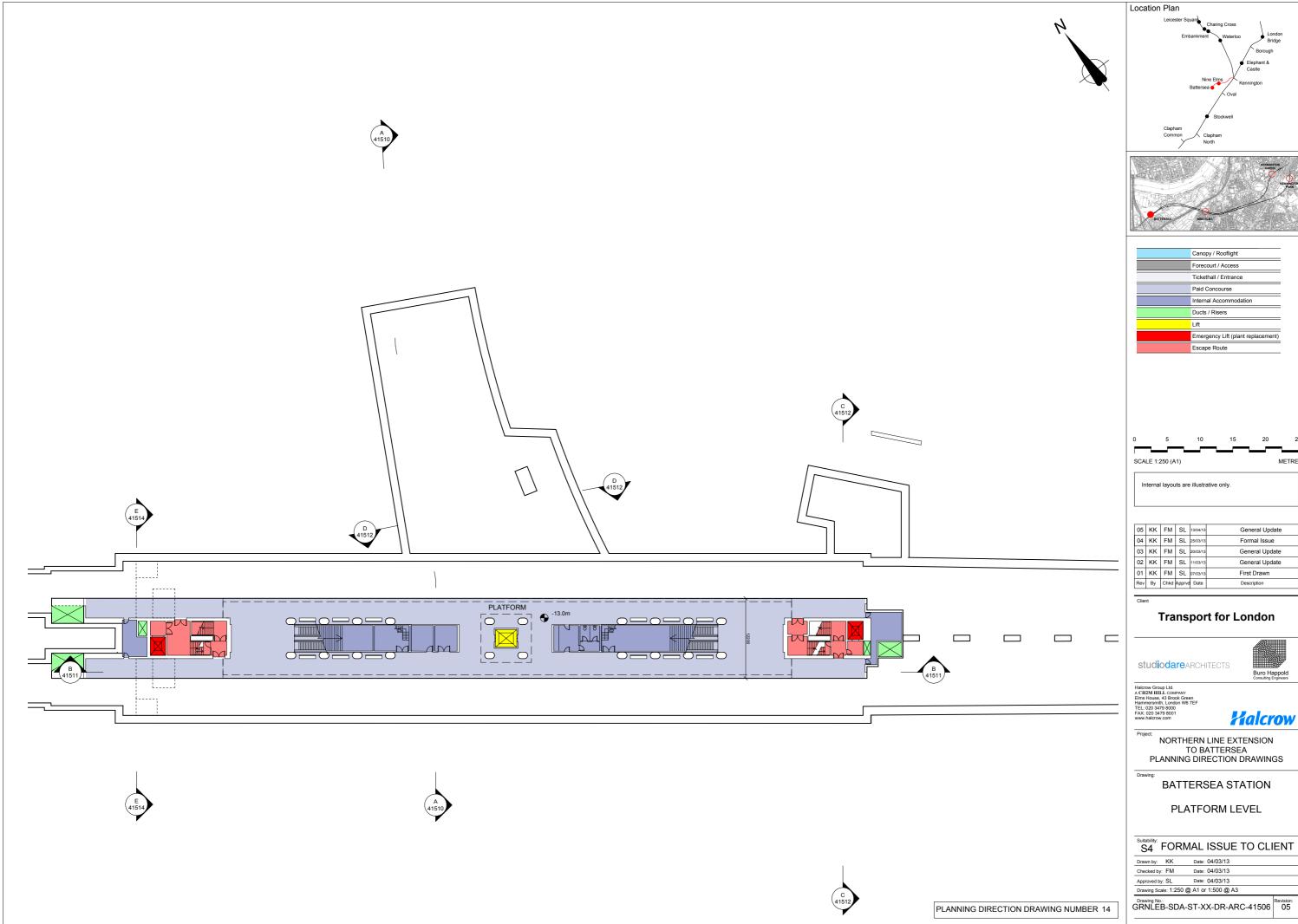
TUNNEL TYPICAL CROSS SECTIONS







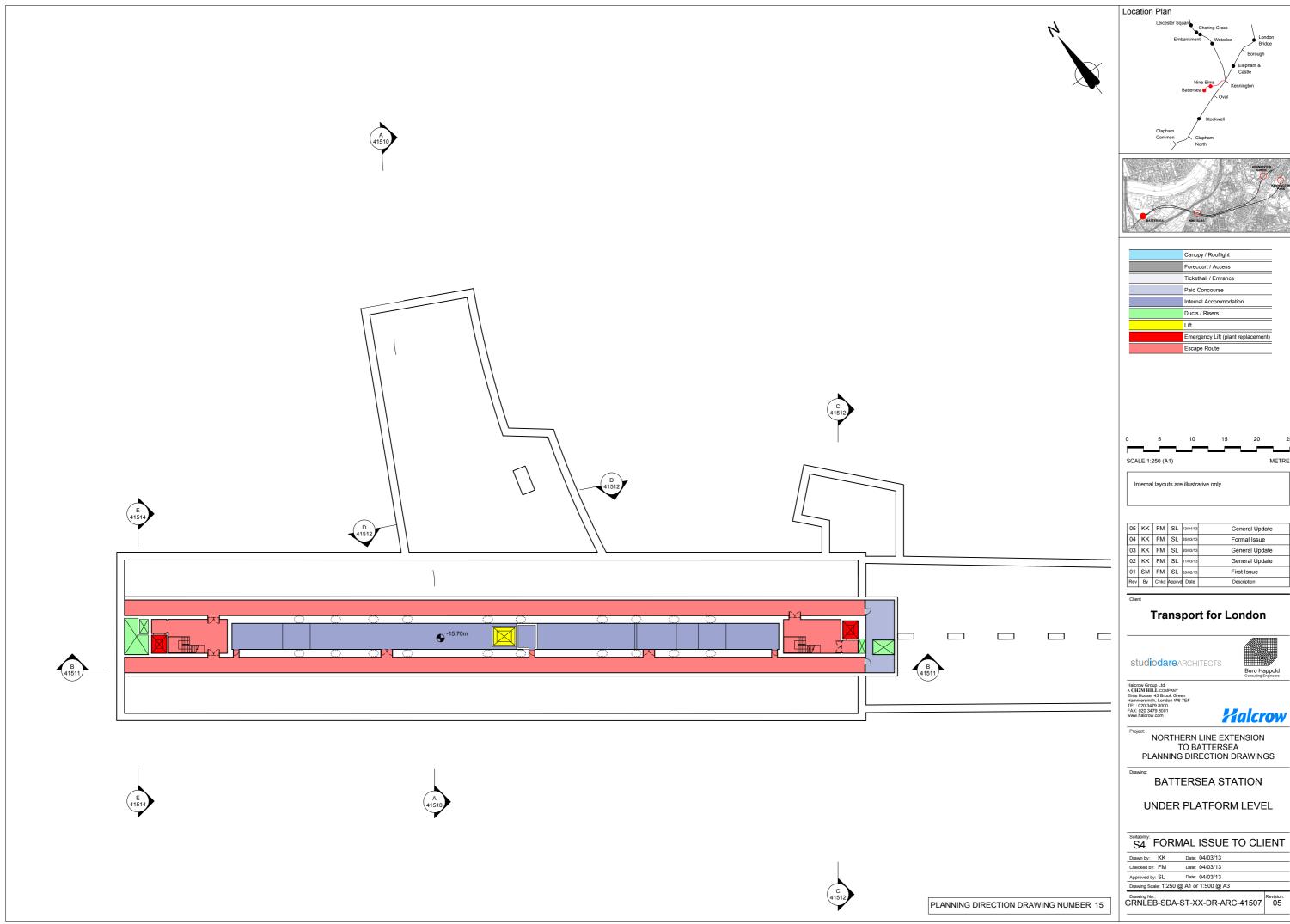






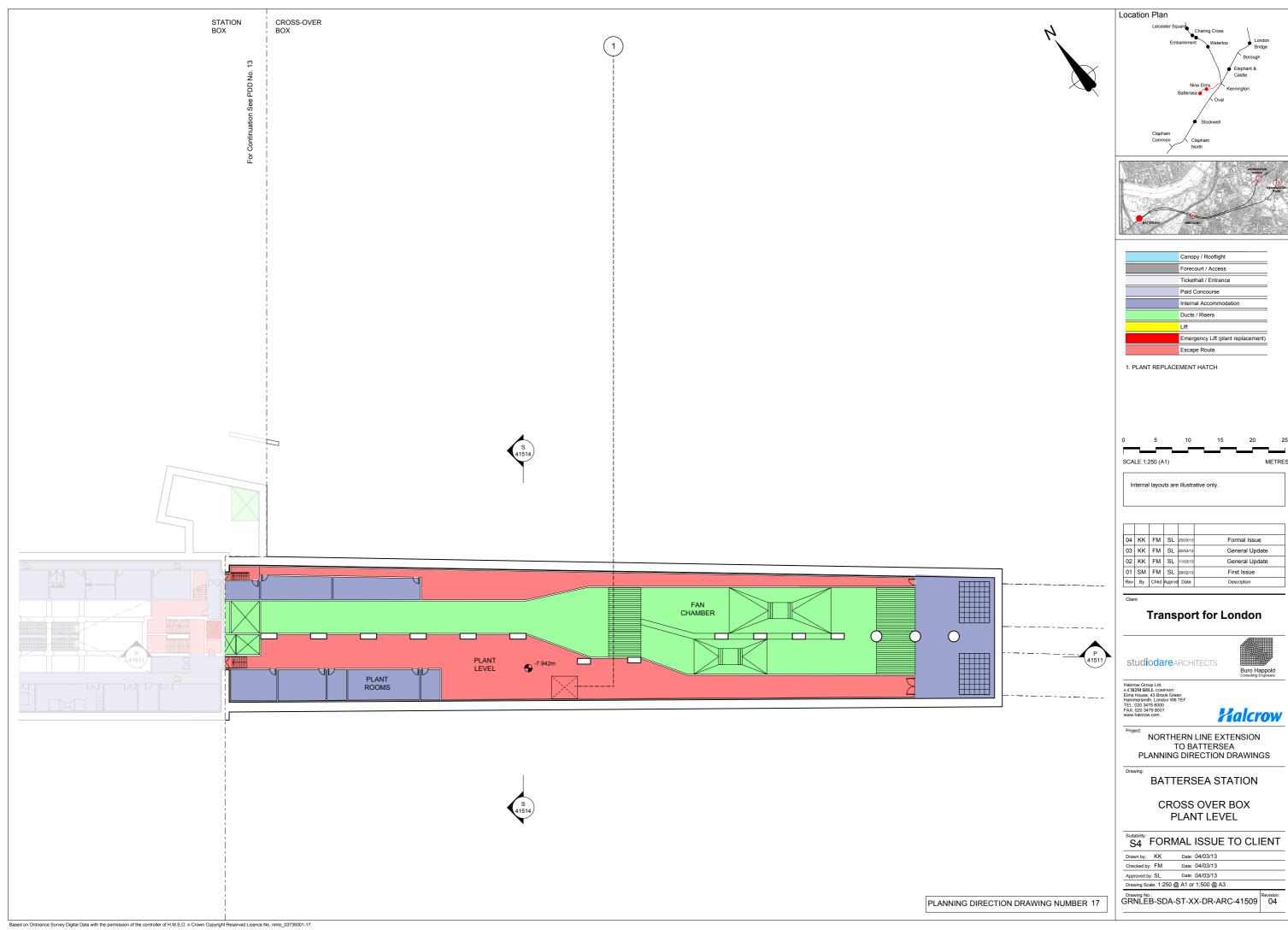
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03	KK	FM	SL	20/03/13	General Update
02	KK	FM	SL	11/03/13	General Update
01	KK	FM	SL	07/03/13	First Drawn
Rev	Ву	Chkd	Apprvd	Date	Description
	04 03 02 01	04 KK 03 KK 02 KK 01 KK	04 KK FM 03 KK FM 02 KK FM 01 KK FM	04 KK FM SL 03 KK FM SL 02 KK FM SL 01 KK FM SL	04 KK FM SL 25/03/13 03 KK FM SL 20/03/13 02 KK FM SL 11/03/13 01 KK FM SL 07/03/13

S4 F	-ORIVI	AL	ISSUE	TO CLIENT
Drawn by:	KK	Date:	04/03/13	
Checked by:	FM	Date:	04/03/13	
Approved by:	SL	Date:	04/03/13	
Danislan Carl	1-250 @	A1 a	1.E00 @ A2	

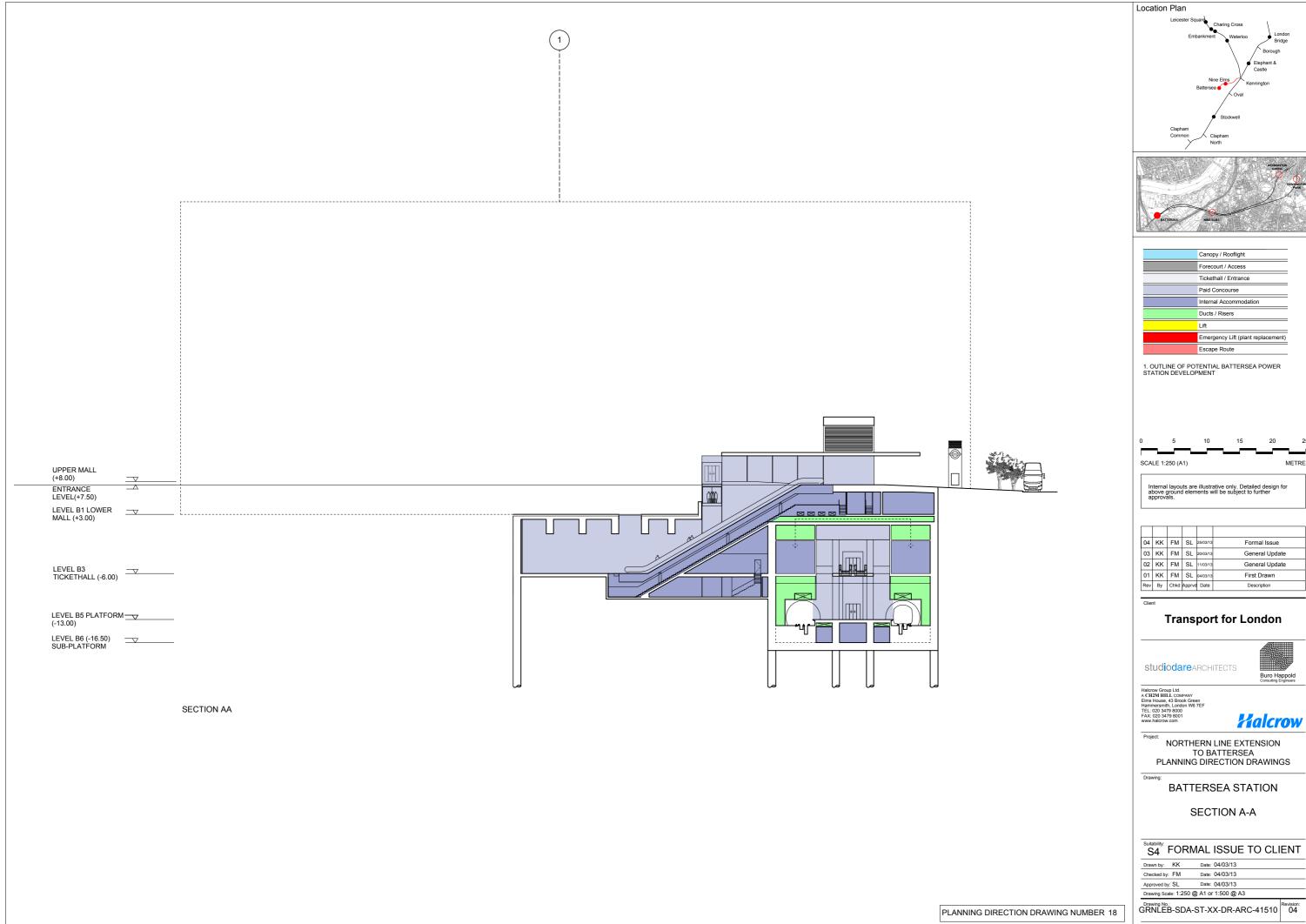


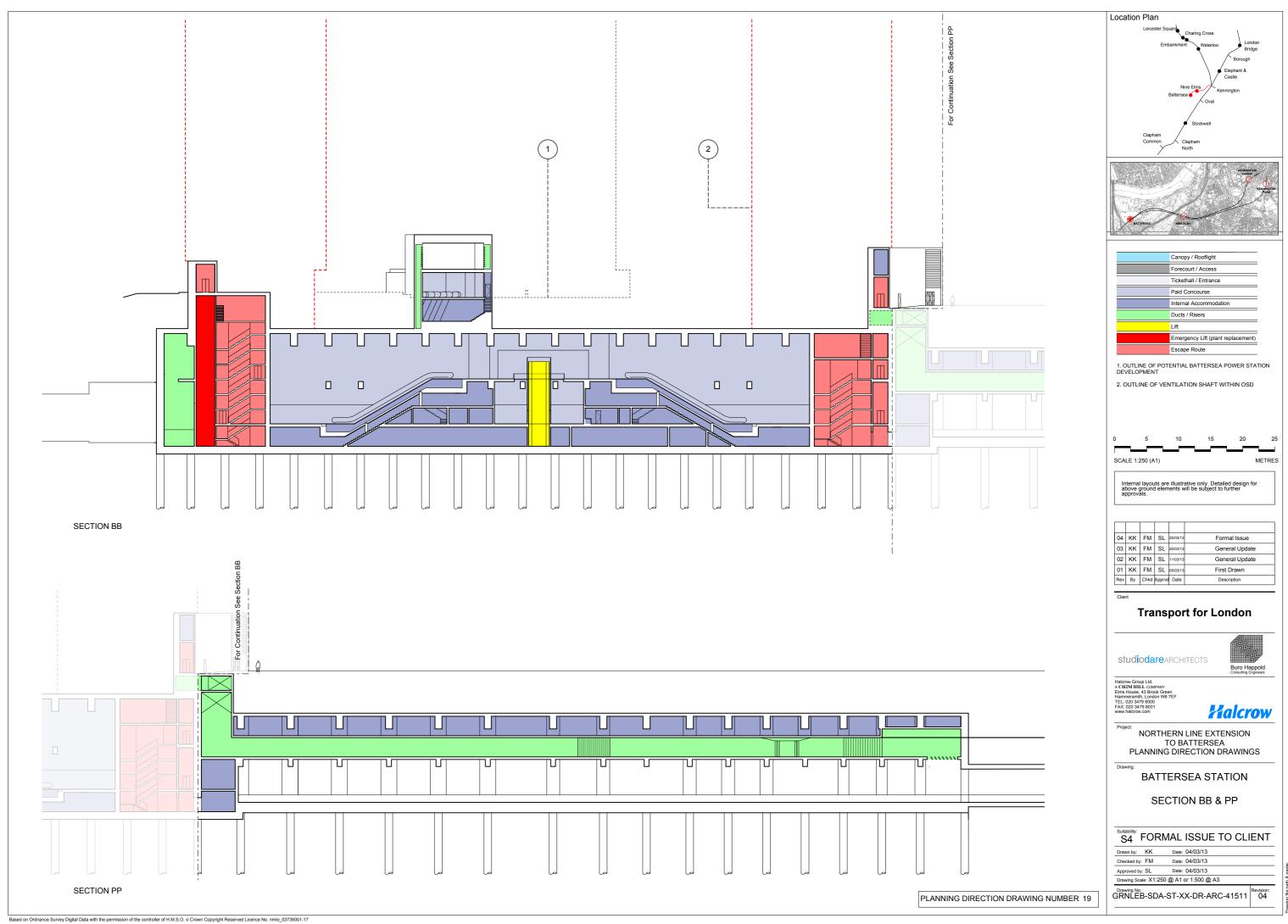
Drawing file path & name-



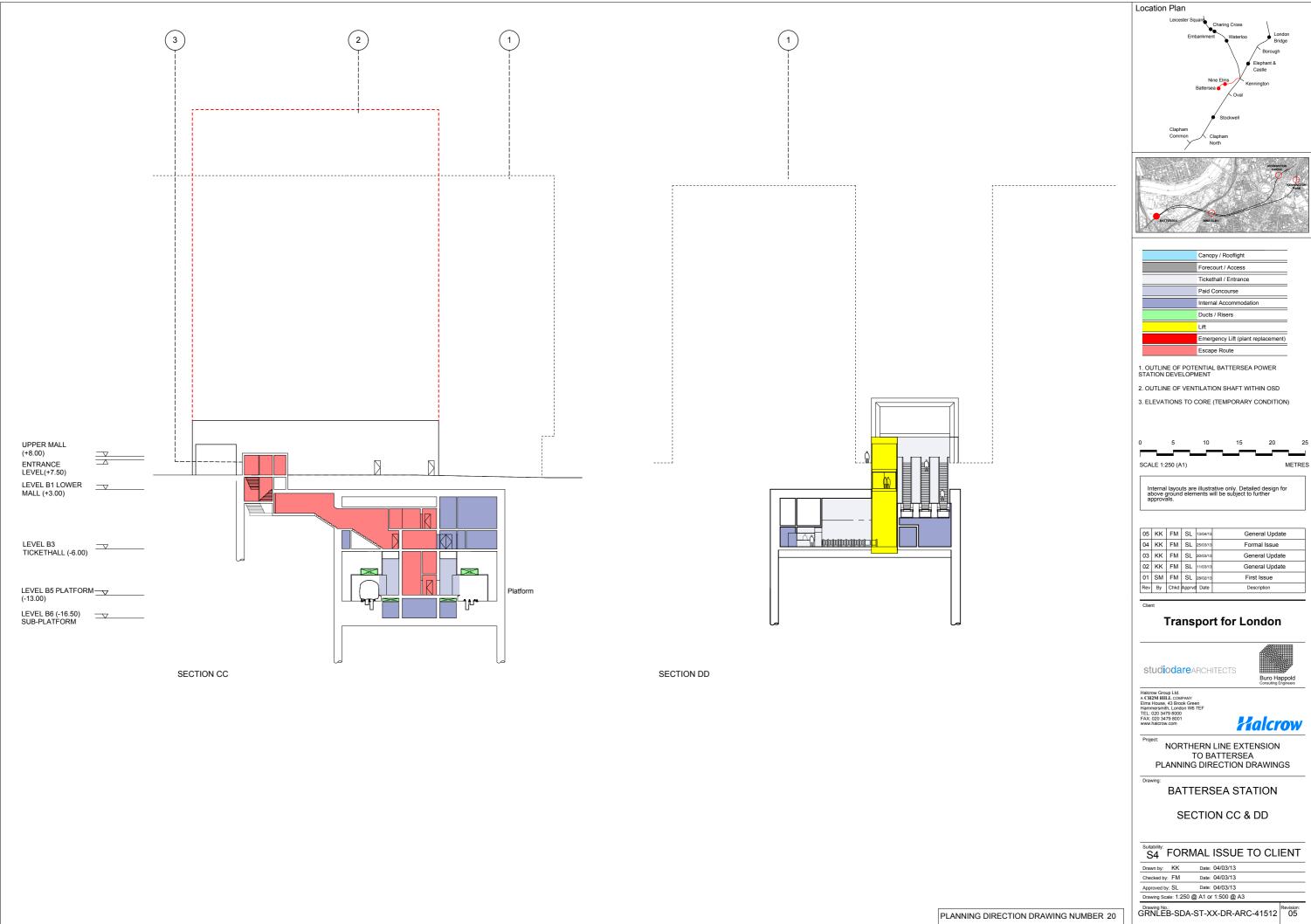


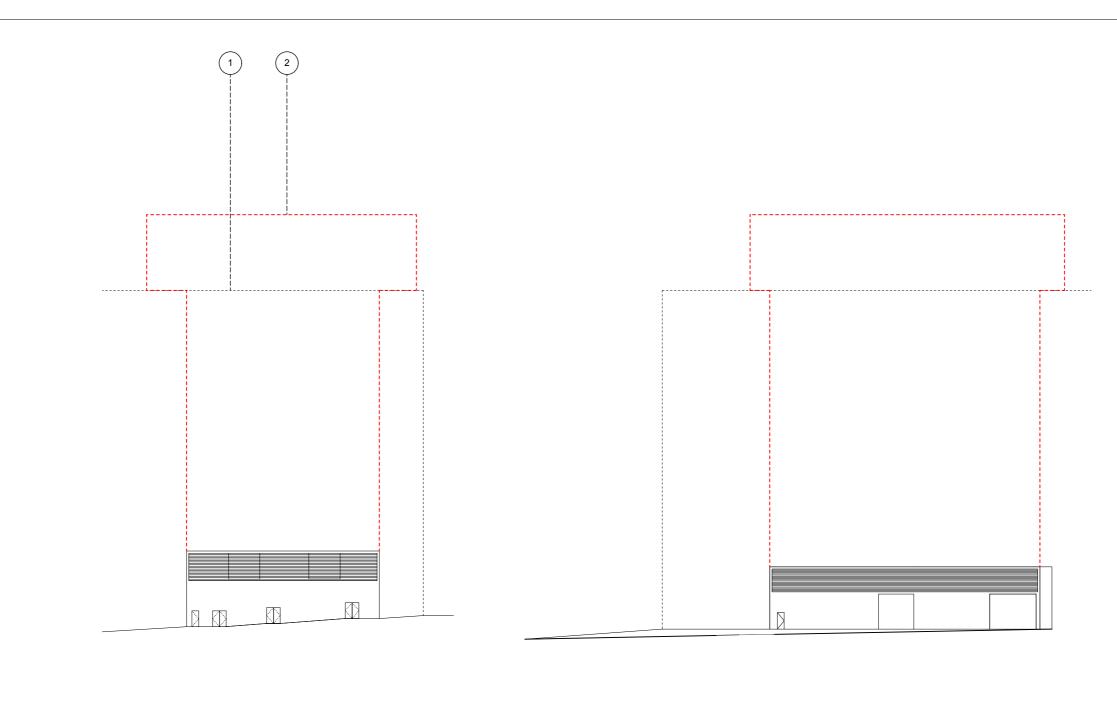
Drawing file path & name-User and Plot Date



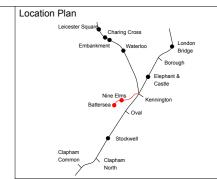


Drawing file path & name-User and Plot Date :

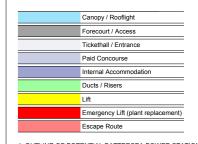




E6 ELEVATION TO EAST CORE







1. OUTLINE OF POTENTIAL BATTERSEA POWER STATION DEVELOPMENT

2. OUTLINE OF VENTILATION SHAFT WITHIN OSD



04	KK	FM	SL	25/03/13	Formal Issue
03	KK	FM	SL	20/03/13	General Update
02	KK	FM	SL	11/03/13	General Update
01	SM	FM	SL	28/02/13	First Issue
Rev	Ву	Chkd	Apprvd	Date	Description

Transport for London

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NORTHERN LINE EXTENSION
TO BATTERSEA
PLANNING DIRECTION DRAWINGS

BATTERSEA STATION

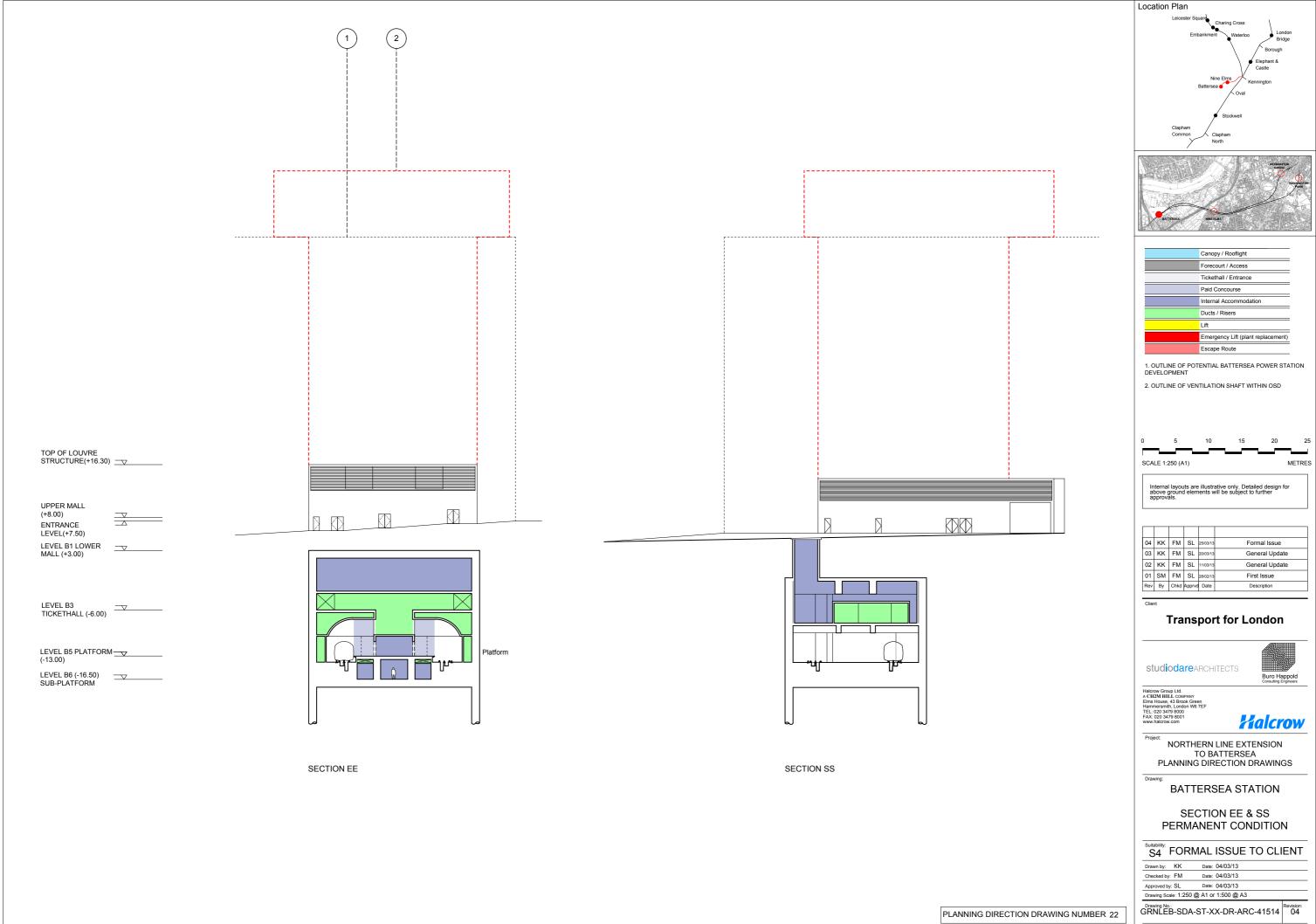
ELEVATIONS TO CORES TEMPORARY CONDITION

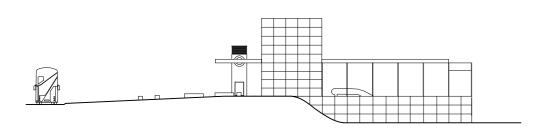
S4 FORMAL ISSUE TO CLIENT

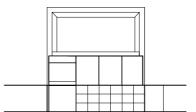
Drawn by: KK Date: 04/03/13 Checked by: FM Date: 04/03/13 Approved by: SL Date: 04/03/13
Drawing Scale: 1:250 @ A1 or 1:500 @ A3

Drawing No.:
GRNLEB-SDA-ST-XX-DR-ARC-41513
Revision: 04

E5 ELEVATION TO WEST CORE

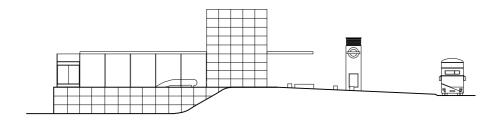






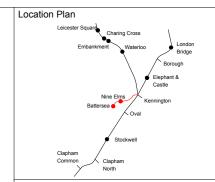
E3 EAST ELEVATION

E1 SOUTH ELEVATION



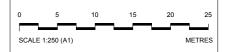
E4 WEST ELEVATION

E2 NORTH ELEVATION





Canopy / Rooflight
Forecourt / Access
Tickethall / Entrance
Paid Concourse
Internal Accommodation
Ducts / Risers
Lift
Emergency Lift (plant replacement)
Escape Route



This drawing is illustrative only. Detailed design will be subject to further approvals.

04	KK	FM	SL	25/03/13	Formal Issue
03	KK	FM	SL	20/03/13	General Update
02	KK	FM	SL	11/03/13	General Update
01	SM	FM	SL	28/02/13	First Drawn
Rev	Ву	Chkd	Apprvd	Date	Description

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Halcrow

NORTHERN LINE EXTENSION
TO BATTERSEA
PLANNING DIRECTION DRAWINGS

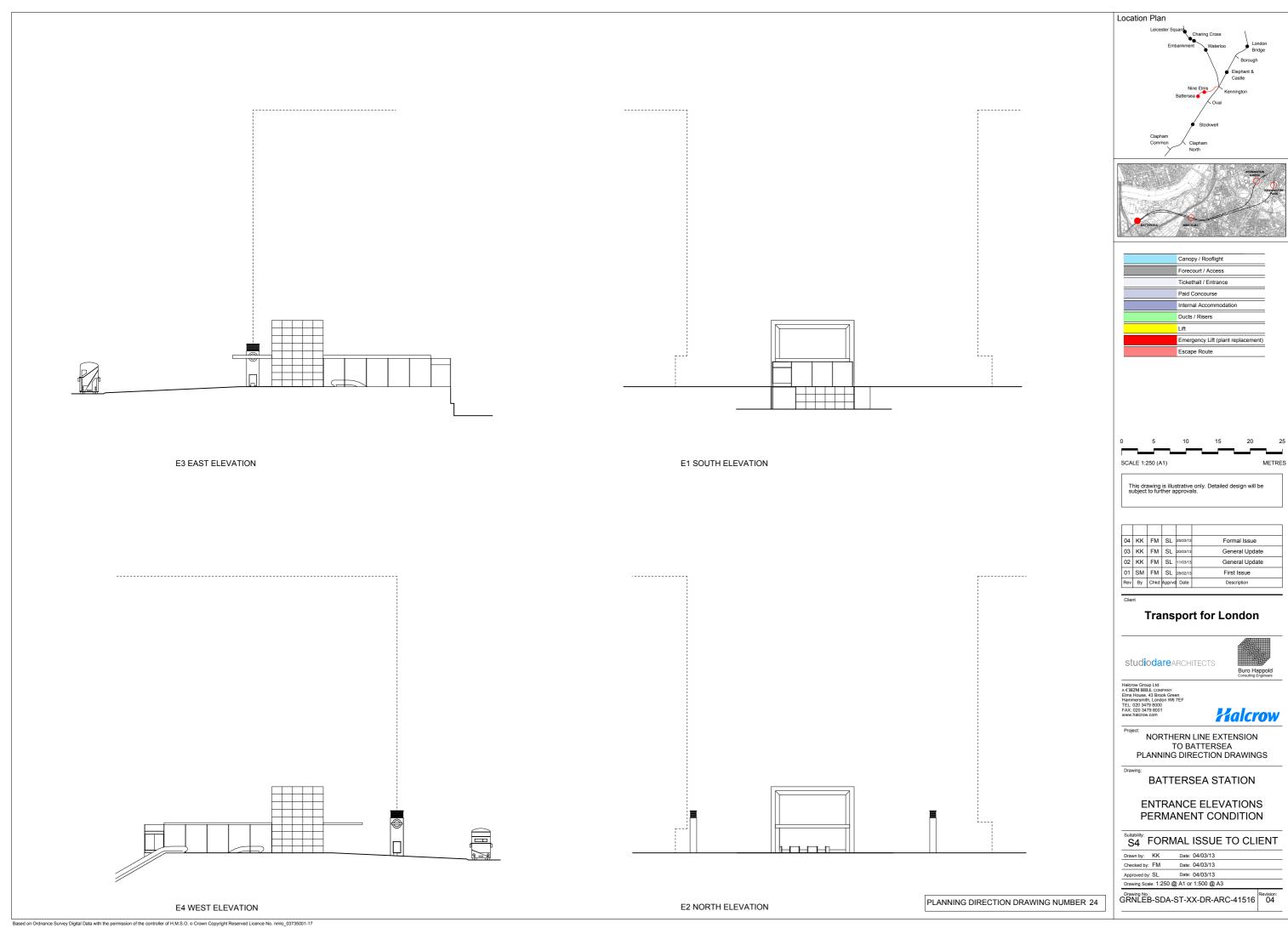
BATTERSEA STATION

ENTRANCE ELEVATIONS TEMPORARY CONDITION

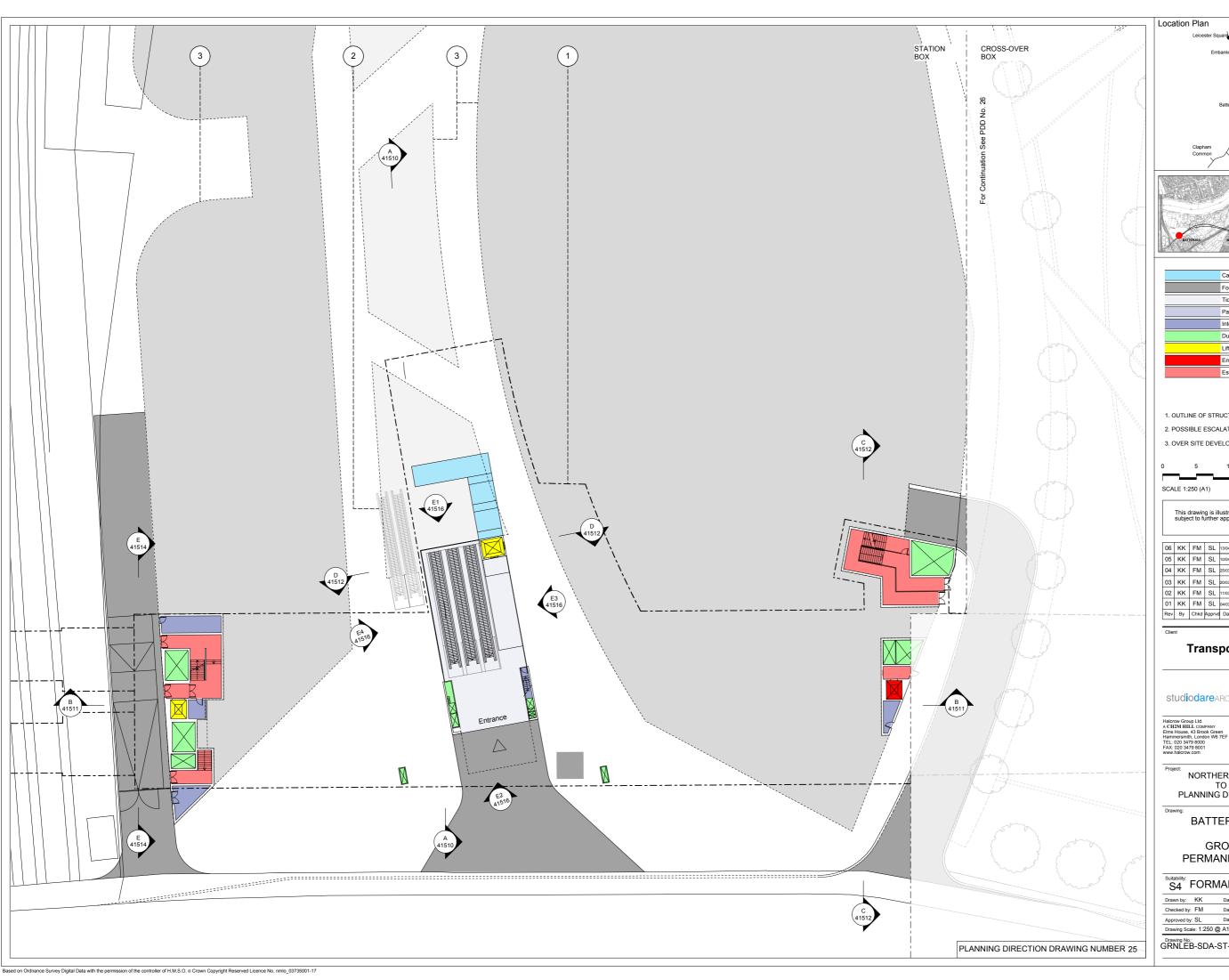
S4 FORMAL ISSUE TO CLIENT

Drawn by: KK Date: 04/03/13 Checked by: FM Date: 04/03/13 Approved by: SL Date: 04/03/13
Drawing Scale: 1:250 @ A1 or 1:500 @ A3

Drawing No.:
GRNLEB-SDA-ST-XX-DR-ARC-41515
Revision:
04



Drawing file path & name-User and Plot Date :

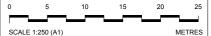








- 1. OUTLINE OF STRUCTURE BELOW
- 2. POSSIBLE ESCALATOR AS PART OF OSD
- 3. OVER SITE DEVELOPMENT MASTERPLAN



This drawing is illustrative only. Detailed design will be subject to further approvals

1		06	KK	FM	SL	13/04/13	General Updates
1		05	KK	FM	SL	10/04/13	General Updates
		04	KK	FM	SL	25/03/13	Formal Issue
		03	KK	FM	SL	20/03/13	General Update
		02	KK	FM	SL	11/03/13	General Update
		01	KK	FM	SL	04/03/13	First Drawn
		Rev	Bv	Chkd	Apprvd	Date	Description

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NORTHERN LINE EXTENSION TO BATTERSEA PLANNING DIRECTION DRAWINGS

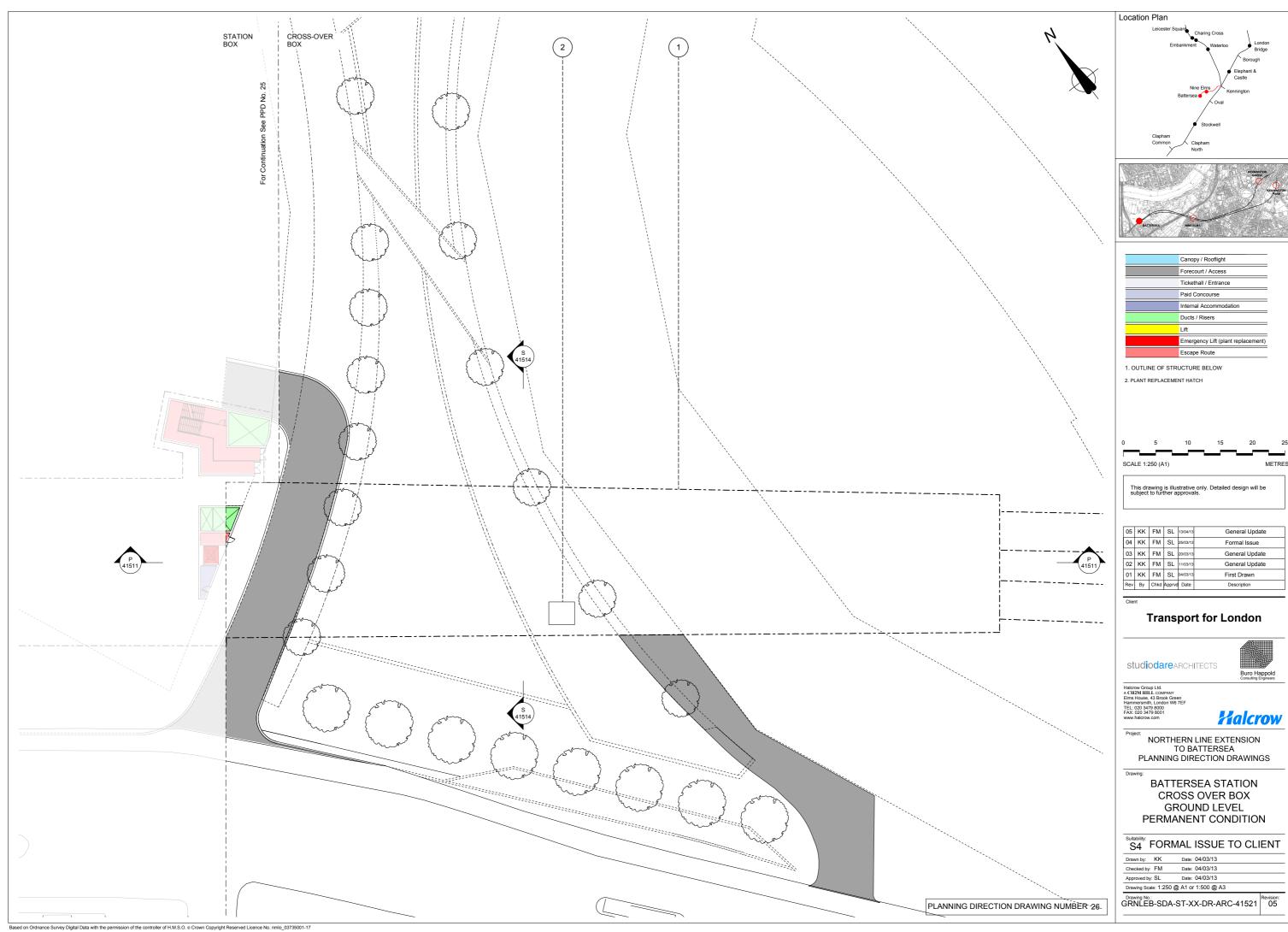
BATTERSEA STATION

GROUND LEVEL PERMANENT CONDITION

Suitability:			_	
S4	FORMAL	ISSUE	TO	CLIEN.

Orawn by: K	K Date	10/04/13	
Checked by: F	M Date	10/04/13	
Approved by: S	SL Date	10/04/13	

Drawing No.:
GRNLEB-SDA-ST-XX-DR-ARC-41520 Revision: 06



Drawing file path & name-User and Plot Date





This drawing is illustrative only. Detailed design for above ground elements will be subject to further approvals



		11	ΥT	кw	НА	27/03/13	Formal issue to client
		10	ΥT	кw	НА	25/03/13	Formal issue
l		09	ΥT	кw	НА	21/03/13	Minor amendments
		08	ΥT	кw	НА	18/03/13	Minor amendments
		07	ΥT	кw	НА	14/03/13	Minor amendments
		06	ΥT	кw	НА	13/03/13	
		05	ΥT	кw	НА	11/03/13	Planning direction drawing number amended, mlnor changes
		04	ΥT	кw	НА	07/03/13	Planning direction drawing number added
		03	ΥT	KW	НА	04/03/13	Engineering changes and minor amendments
		02	ΥT	KW	НА	27/02/13	Draft
l		01	ΥT	KW	НА	21/02/13	Draft
l		00	ΥT	KW	НА	19/02/13	Draft
		Rev	Ву	Chkd	Арр	Date	Description

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JOHN MGASLAN + PARTNERS

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Halcrow

NORTHERN LINE EXTENSION TO BATTERSEA
PLANNING DIRECTION DRAWINGS

BATTERSEA STATION PROPOSED

LANDSCAPE MASTERPLAN

Sultability: S4	FOR	RMAL I	SSUE TO CLIENT
Drawn by:	LB	Date:	18/02/13
	DD		40/00/40

Date: 19/02/13 Approved by: HA Drawing Scale: 1:250@A1, 1:500@A3 Revision:

1453-BA-G710-P-00