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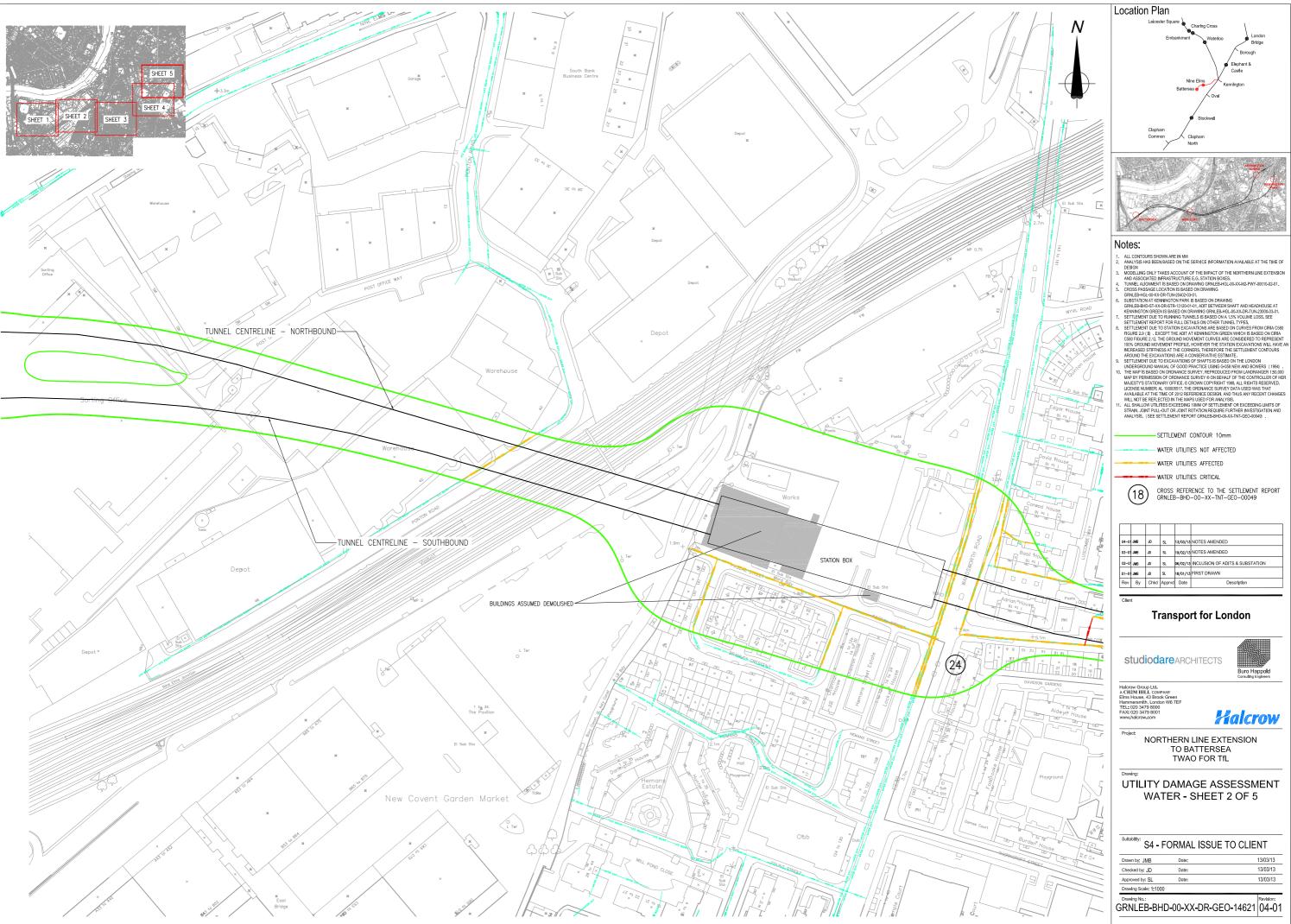
13/03/13

13/03/13

13/03/13

Drawling No.:

GRNLEB-BHD-00-XX-DR-GEO-14620 04-01







- SETTLEMENT CONTOUR 10mm

- WATER UTILITIES NOT AFFECTED -WATER UTILITIES AFFECTED

CROSS REFERENCE TO THE SETTLEMENT REPORT GRNLEB-BHD-00-XX-TNT-GE0-00049

04-01	JMB	JD	SL	13/03/13	NOTES AMENDED
03-01	JMB	JD	SL	19/02/13	NOTES AMENDED
02-0	JMB	JD	SL	06/02/13	INCLUSION OF ADITS & SUBSTATION
01-01	JMB	JD	SL	18/01/13	FIRST DRAWN
Rev	By	Chkd	Apprvd	Date	Description

Transport for London

studiodare ARCHITECTS



Halcrow Group Ltd.
A CH2M HILL COMPANY
Elms House, 43 Brook Gre
Hammersmith, London W6
TEL. 202 3479 8000
FAX: 020 3479 8001
www.halcrow.com

Halcrow

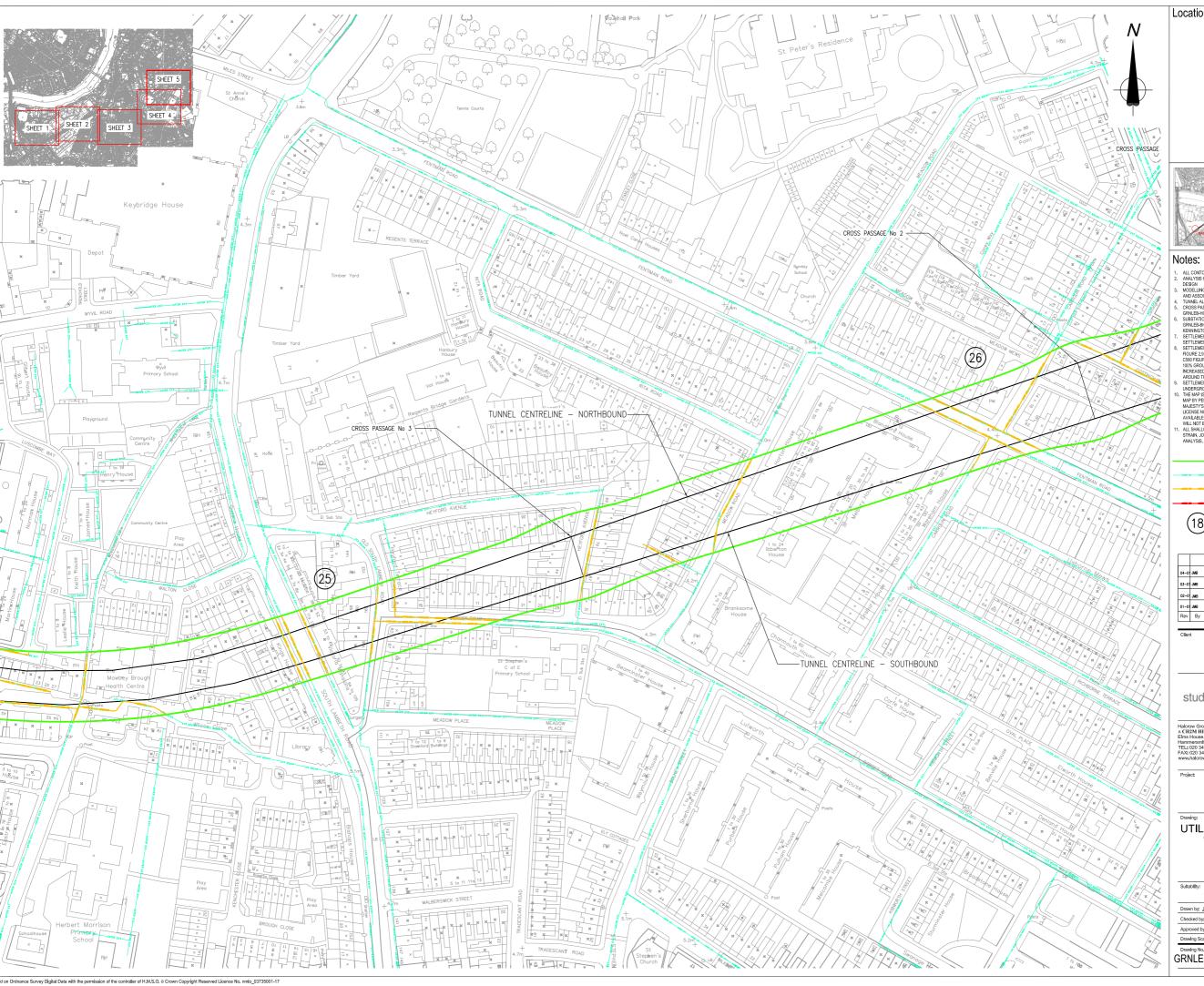
NORTHERN LINE EXTENSION TO BATTERSEA TWAO FOR TfL

UTILITY DAMAGE ASSESSMENT WATER - SHEET 2 OF 5

S4 - FORMAL ISSUE TO CLIENT

Drawn by: JMB	Date:	13/03/13
Checked by: JD	Date:	13/03/13
Approved by: SL	Date:	13/03/13

Drawling No.: Revision: 04-01







- ALL CONTOURS SHOWN ARE IN MM
 ANALYSIS HAS BEEN BASED ON THE SERVICE INFORMATION AVAILABLE AT THE TIME OF
 DESIGN
 MODELLING ONLY TAKES ACCOUNT OF THE INPACT OF THE NORTHERN LINE EXTENSION
 AND ASSOCIATED INFERSTRICTURE C. S. TATION BOSS.
 TUNNEL ALIGNMENT IS BASED ON DRAWING GRULEB-HGL-00-XC-M2-PWY-000 10-02-01.
 GROLE PASSAGE LOCATION IS BASED ON DRAWING
 GRIDE PROSAGE ACCOUNT IN SEASON OF THE PROPERTY.

- CROSS PASSAGE LOCATION IS BASED ON DRAWING
 GRINLEH-IGL-JOX-OVER-TUR-2002-359.1,

 SUBSTATION AT KENNINGTON PARK IS BASED ON DRAWING
 GRINLEB-HIGL-JOX-OVER-TUR-2002-359.1,

 SUBSTATION AT KENNINGTON PARK IS BASED ON DRAWING
 GRINLEB-HIGL-JOX-OVER-THE TUR-2002-391.

 SETTLEMENT RUDE TO RUNNING THOMBES IS BASED ON A 15% VOLUME LOSS. SEE
 SETTLEMENT REPORT FOR FULL DETAILS ON OTHER TUNNEL TYPES.

 SETTLEMENT DUE TO RETAIN DE VOURSE IS BASED ON A 15% VOLUME LOSS. SEE
 SETTLEMENT DUE TO FORTHOL BOOK THOMBES IS BASED ON GRIN.

 CS08 FIGURE 2 12, THE GROUND MOVEMENT OURVES ARE CONSIDERED TO REPRESENT
 TOOK GROUND MOVEMENT FROME. HOWEVER THE STATION EXCAVATIONS WILL HAVE AN
 INCREASED SITFFHESS AT THE CORNERS, THEREFORE THE SETTLEMENT CONTOURS
 AROUND THE EXCAVATION SARE CONSERVATIVE SETS STATION EXCAVATIONS WILL HAVE AN
 INDERGROUND MANUAL, OF GOOD PRACTICE USING G-69S NEW AND BOWERS (1994).

 THE MAR IS BASED ON ORDINANCE SURVEY OR BASED ON THE LONDON
 UNDERGROUND MANUAL OF GOOD PRACTICE USING G-69S NEW AND BOWERS (1994).

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 AVAILABLE AT THE TIME OF 2012 REFERENCE DESIGN AND THUS ANY RECENT CHANGES

 WILL NOT BE REFLECTED IN THE MAPS USED FOR ANALYSIS.

 CENTER OF THE COPY OF THE CORNAINES SURVEY OR AND LISTS.

 ALL SHALLOW UTLINES EXCEEDING 10M FOR SET TELEMENT RESERVED.

 LICENSE NUMBER ALL 100005 T, THE CORNAINES SURVEY OR AT USED THE MALESTICATION AND

 ANALYSIS. (SEE SETTLEMENT REPORT OR RELEASED OUTDATED.

- SETTLEMENT CONTOUR 10mm

- WATER UTILITIES NOT AFFECTED - WATER UTILITIES AFFECTED

- WATER UTILITIES CRITICAL

CROSS REFERENCE TO THE SETTLEMENT REPORT GRNLEB-BHD-00-XX-TNT-GEO-00049

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NORTHERN LINE EXTENSION TO BATTERSEA TWAO FOR TfL

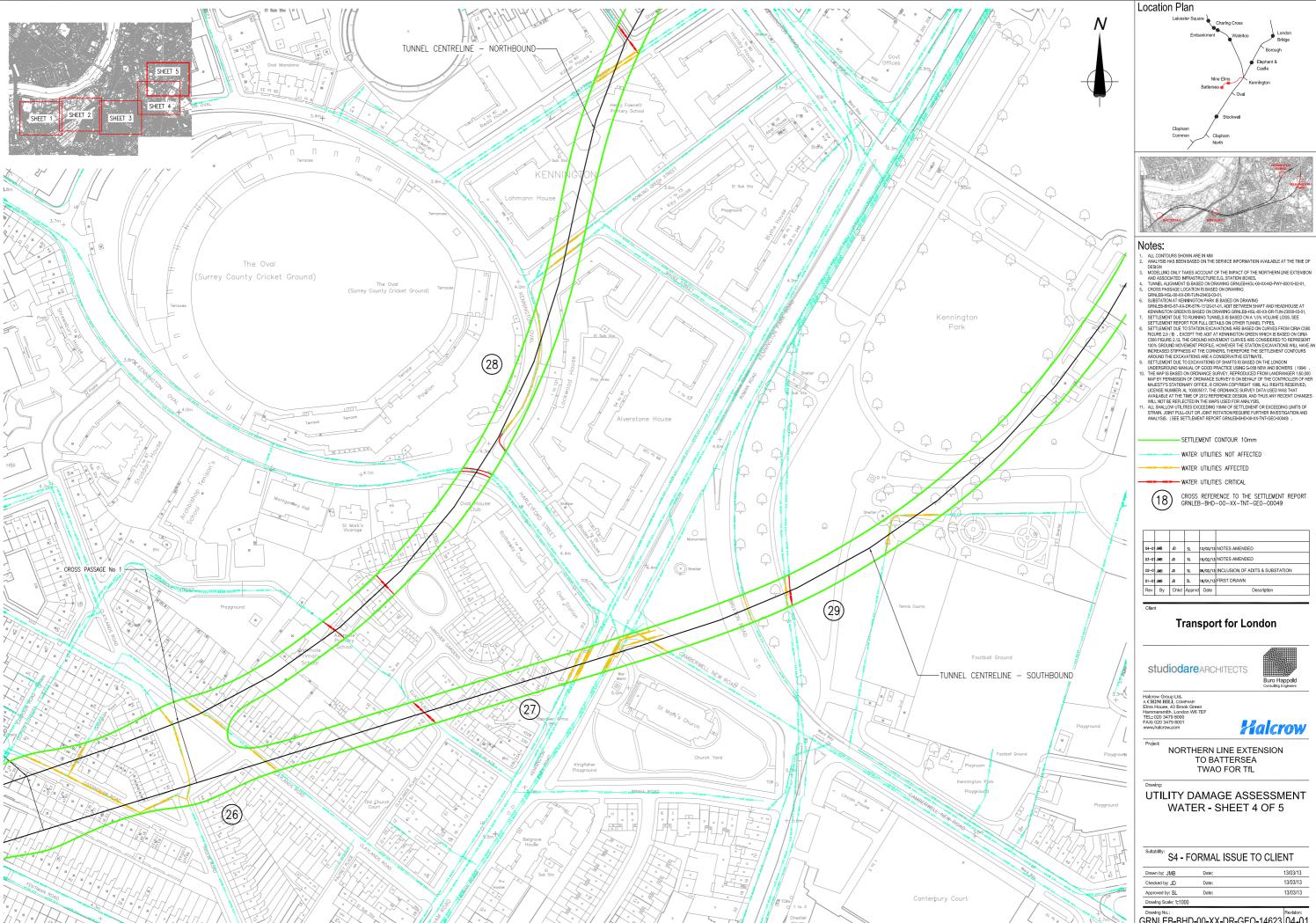
UTILITY DAMAGE ASSESSMENT WATER - SHEET 3 OF 5

S4 - FORMAL ISSUE TO CLIENT

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Drawling No.:

GRNLEB-BHD-00-XX-DR-GEO-14622 04-01



- WATER UTILITIES NOT AFFECTED

04-01	JMB	JD	SL	13/03/13	NOTES AMENDED
03-01	JMB	JD	SL	19/02/13	NOTES AMENDED
02-0	JMB	JD	SL	06/02/13	INCLUSION OF ADITS & SUBSTATION
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WATER - SHEET 4 OF 5

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Drawing No.:

GRNLEB-BHD-00-XX-DR-GEO-14623

Revision:
04-01



Drawing file path & name -User and Plot Date Imbarre : 14:3:2013 - 5:3 pm