



Task 125 - Silvertown Reference Design Scheme Proposals – Consultation Drawings

Transport for London

October 2014

ATKINS

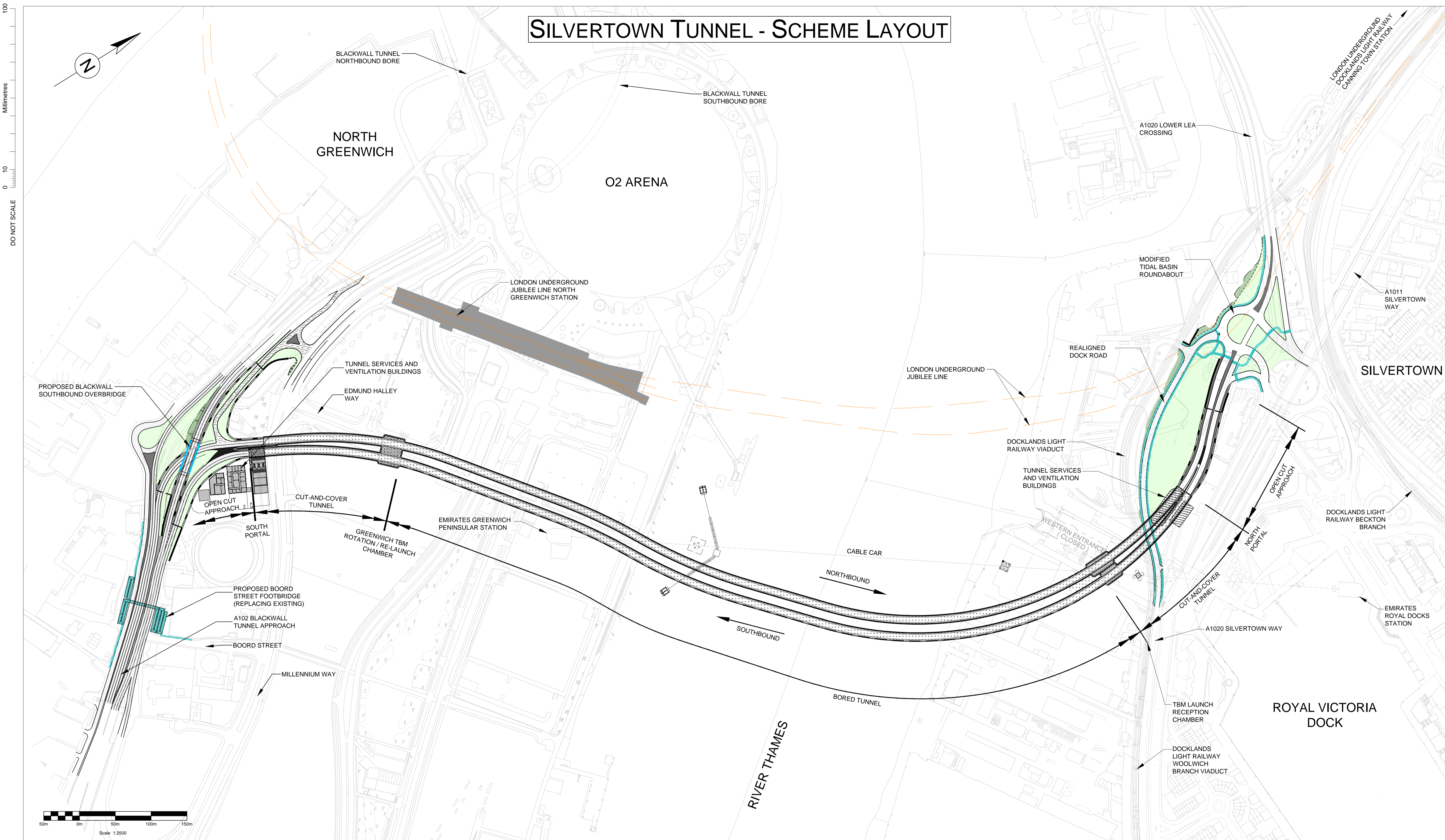


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Scheme Proposals – Consultation Drawings

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STWTN-ATK-STU-TUXX-DR-D-0001	Silvertown River Crossing - Tunnel Plan & Profile
STWTN-ATK-HGN-ANXX-DR-D-0009	Northern Tie-in Existing and Proposed Junction Arrangements
STWTN-ATK-HGN-ASXX-DR-D-0011	Southern Tie-in Existing and Proposed Junction Arrangements
STWTN-ATK-STU-TUXX-DR-C-0005	Silvertown River Crossing - Bored Tunnel Cross Section Through a Typical Cross Passage
STWTN-ATK-STU-TUXX-DR-C-0011	Silvertown River Crossing - Cut-and Cover Tunnel Cross Section

SILVERTOWN TUNNEL - SCHEME LAYOUT



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction	Not Applicable
Maintenance / Cleaning	Not Applicable
Use	Not Applicable
Decommissioning / Demolition	Not Applicable

KEY		KEY		KEY	
	RETAINING WALL		LANDSCAPING		LONDON UNDERGROUND JUBILEE LINE
	DIAPHRAGM WALL TO UNDERSIDE OF CARRIAGEWAY		EARTHWORK		BRIDGE STRUCTURE
	DIAPHRAGM WALL WITH VERTICAL UPSTAND		HARDENED VERGE		
	NON MOTORISED USER ROUTE		VEHICLE CROSSOVER		

P01	JC	JC	MK	10/07/14
First Issue				
P02	JC	JC	MK	10/07/14
First Issue With Minor Amendments				
P03	DB	MJC	YD	08/10/14
Issue for Public Consultation				
Rev	Drawn / Des	Checked	Approved	Date
Description				

Work Status: **WORK IN PROGRESS**

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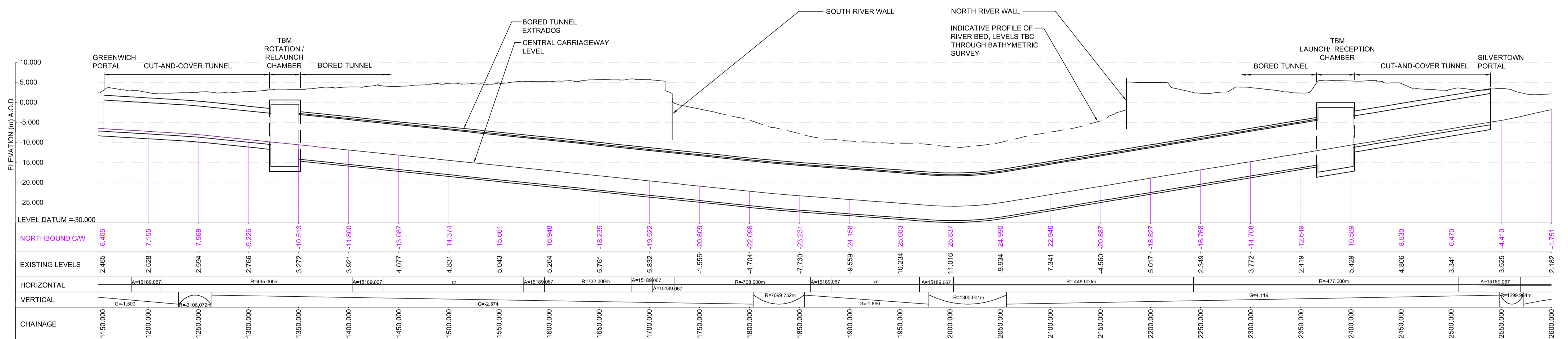
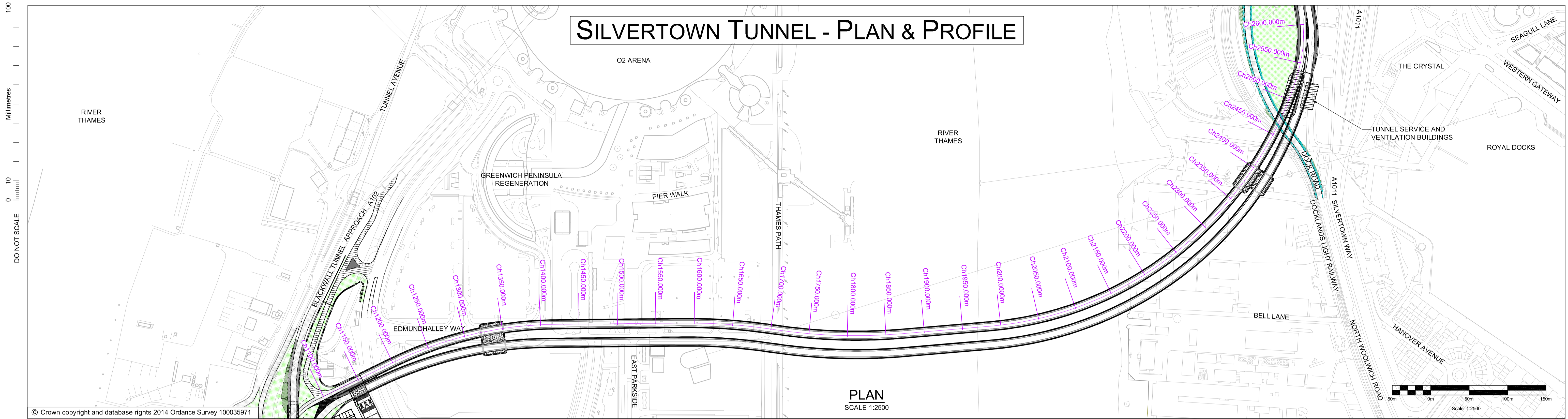
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Client: **Transport for London**

Project Title	SILVERTOWN TUNNEL REFERENCE DESIGN				
Drawing Title	SILVERTOWN RIVER CROSSING SCHEME LAYOUT				
Scale	1:2500	Designed / Drawn	Checked	Approved	Authorised
Original Size	A1	Date	Date	Date	Date
		08/10/14	08/10/14	08/10/14	---
Drawing Number	STWTN-ATK-GEN-XXXX-DR-Z-0001				Revision
					P03

Plotted: Oct 10, 2014 - 8:56am by: BRD7413

SILVERTOWN TUNNEL - PLAN & PROFILE



TUNNEL LAYOUT - LONGITUDINAL SECTION

HORIZONTAL SCALE 1:2000, VERTICAL SCALE 1:500

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).	
Construction	Not Applicable
Maintenance / Cleaning	Not Applicable
Use	Not Applicable
Decommissioning / Demolition	Not Applicable

- NOTES**
- THE EMERGENCY CROSS PASSAGES SPACING TO BE CONFIRMED AND HENCE NOT SHOWN ON THE SCHEME PLAN AND LONGITUDINAL SECTION
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:
 - STWTN-ATK-GEN-XXXX-DR-Z-0001
 - STWTN-ATK-STU-TUXX-DR-C-0005
 - STWTN-ATK-STU-TUXX-DR-C-0011

Rev	Drawn / Des	Checked	Approved	Date
P01	DB	MK	MK	08/10/14
P02	DB	MK	MK	15/10/14

Drawing Status: **WORK IN PROGRESS**

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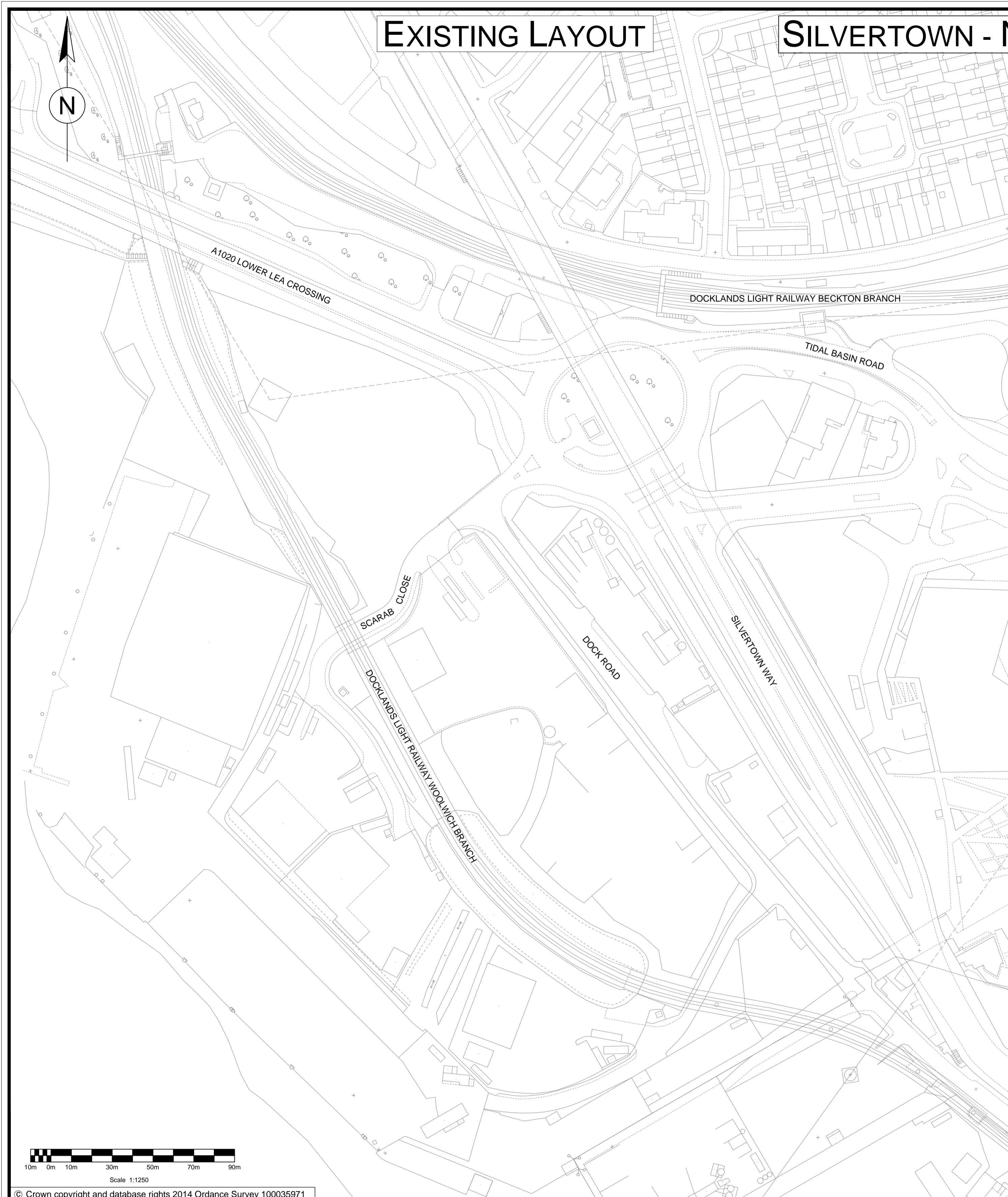
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Client: **Transport for London**

Project Title				
SILVERTOWN TUNNEL REFERENCE DESIGN				
Drawing Title				
SILVERTOWN RIVER CROSSING TUNNEL PLAN & PROFILE				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	DB	MK	MK	---
Original Size	Date	Date	Date	Date
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Drawing Number				Revision
STWTN-ATK-STU-TUXX-DR-D-0001				P02

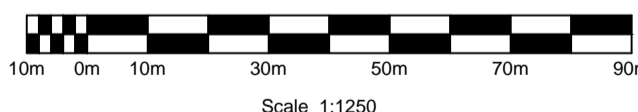
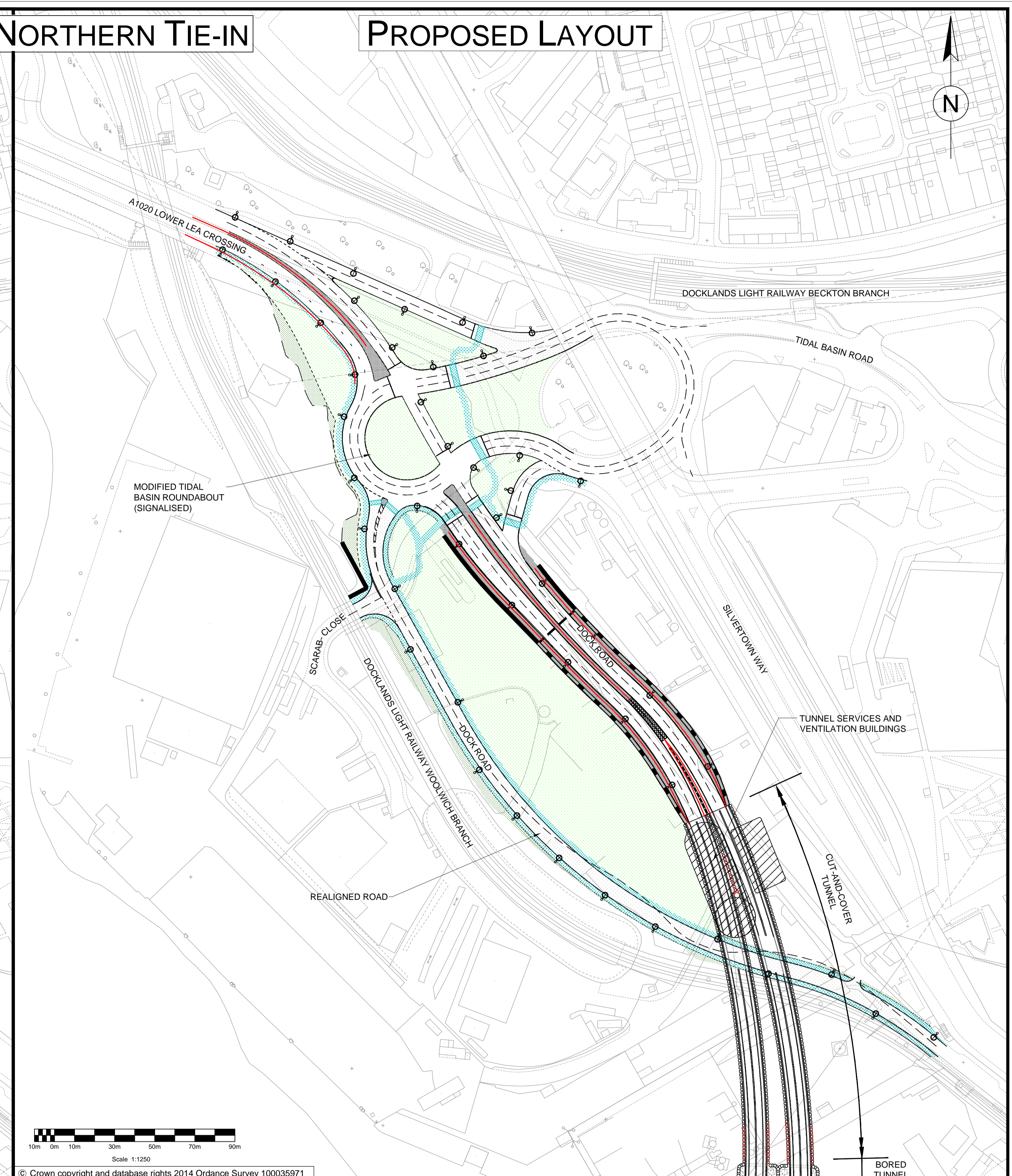
Printed: Oct 16, 2014 - 8:55am by: TAYL3430

100
Millimetres
0 10
DO NOT SCALE



SILVERTOWN - NORTHERN TIE-IN

PROPOSED LAYOUT



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).	
Construction	Not Applicable
Maintenance / Cleaning	Not Applicable
Use	Not Applicable
Decommissioning / Demolition	Not Applicable

KEY	
	RETAINING WALL
	EXTENT OF CONCRETE GROUND SLAB
	SECANT PILE RETAINING WALL
	ROADS RESTRAINT SYSTEM
	10m LIGHTING COLUMN
	ANTI-RECIRCULATION WALL
	LANDSCAPING
	EARTHWORK
	HARDENED VERGE
	VEHICLE CROSSOVER
	NON MOTORISED USER ROUTE

P01	DB	MJC	YD	08/10/14
Issue for Public Consultation				
Rev	Drawn / Des	Checked	Approved	Date
Description				

Project Status: **WORK IN PROGRESS**

ATKINS

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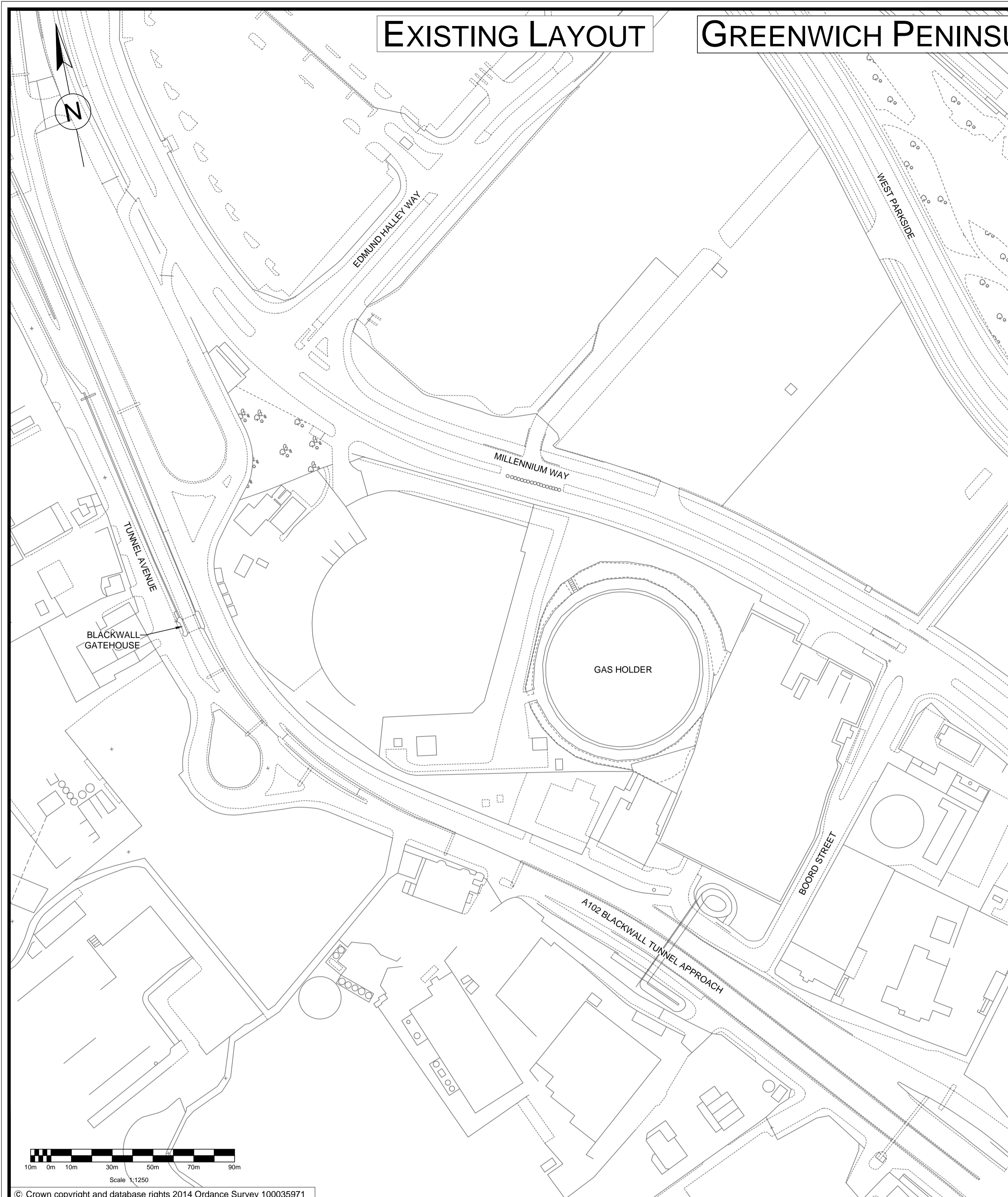
Client: **Transport for London**

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Project Title: SILVERTOWN TUNNEL REFERENCE DESIGN				
Drawing Title: SILVERTOWN NORTHERN TIE-IN EXISTING AND PROPOSED JUNCTION ARRANGEMENTS				
Scale: 1:1250	Designed / Drawn: DB	Checked: MJC	Approved: YD	Authorised: ---
Original Size: A1	Date: 08/10/14	Date: 08/10/14	Date: 08/10/14	Date: ---
Drawing Number: STWTN-ATK-HGN-ANXX-DR-D-0009				Revision: P01

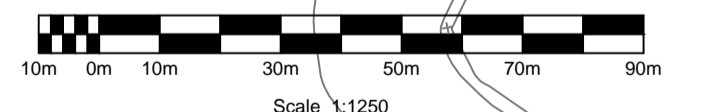
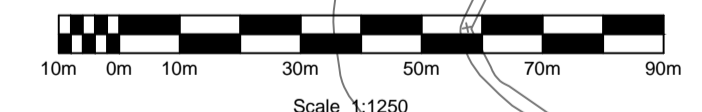
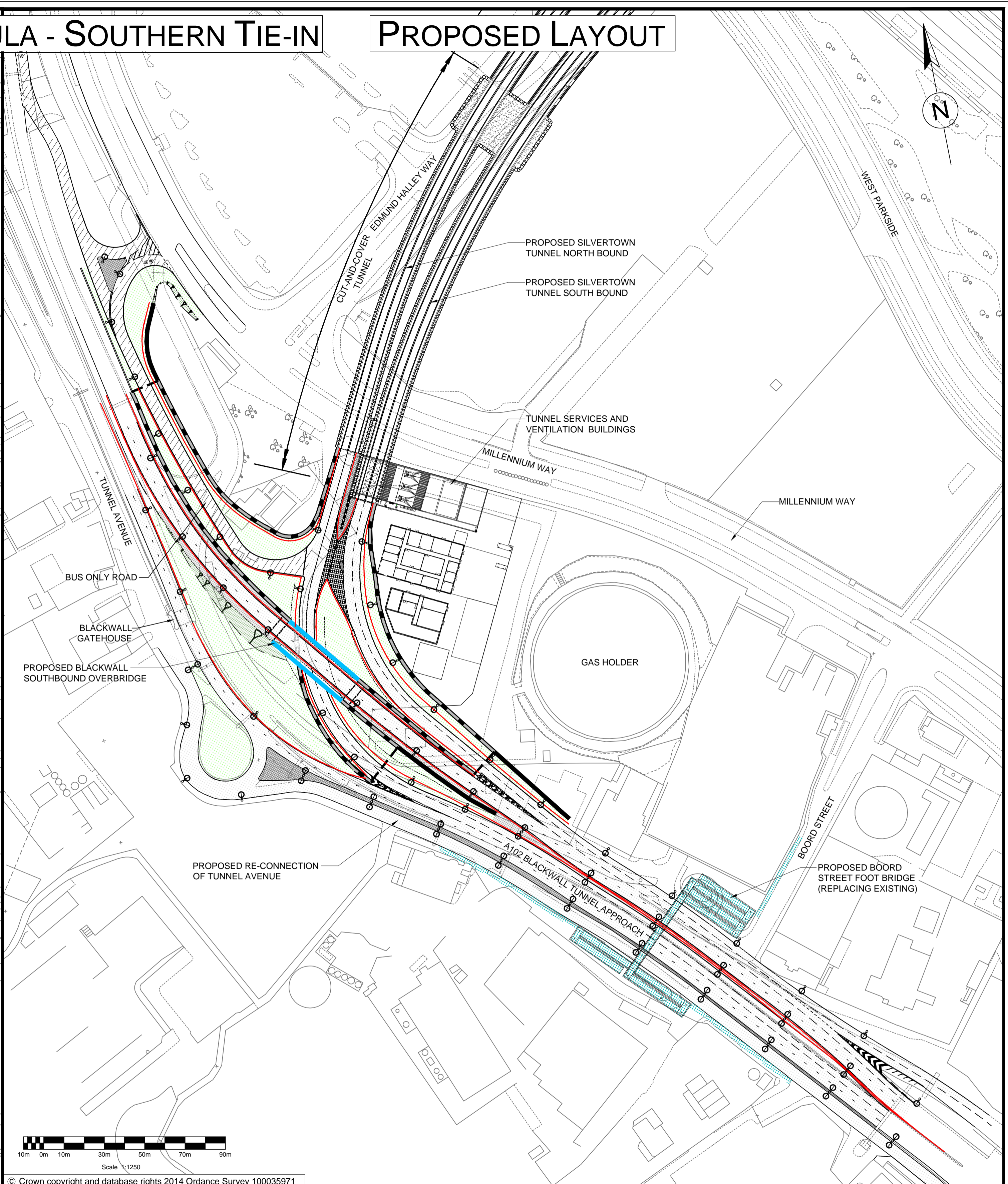
Printed: Oct 08, 2014 - 4:17pm by: BRD7413

100
Millimetres
0 10
DO NOT SCALE



GREENWICH PENINSULA - SOUTHERN TIE-IN

PROPOSED LAYOUT



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).
Construction Not Applicable
Maintenance / Cleaning Not Applicable
Use Not Applicable
Decommissioning / Demolition Not Applicable

KEY

	RETAINING WALL		LANDSCAPING		VEHICLE CROSSOVER
	EXTENT OF CONCRETE GROUND SLAB		EARTHWORK		HARDENED VERGE
	SECANT PILE RETAINING WALL		ROADS RESTRAINT SYSTEM		BUS LANE
	NON MOTORISED USER ROUTE		BRIDGE STRUCTURE		10m LIGHTING COLUMN
	10m LIGHTING COLUMN		ANTI-RECIRCULATION WALL		

P01	DB	MJC	YD	08/10/14
Issue for Public Consultation				
Rev	Drawn / Des	Checked	Approved	Date
Description				

Drawing Status: **WORK IN PROGRESS**

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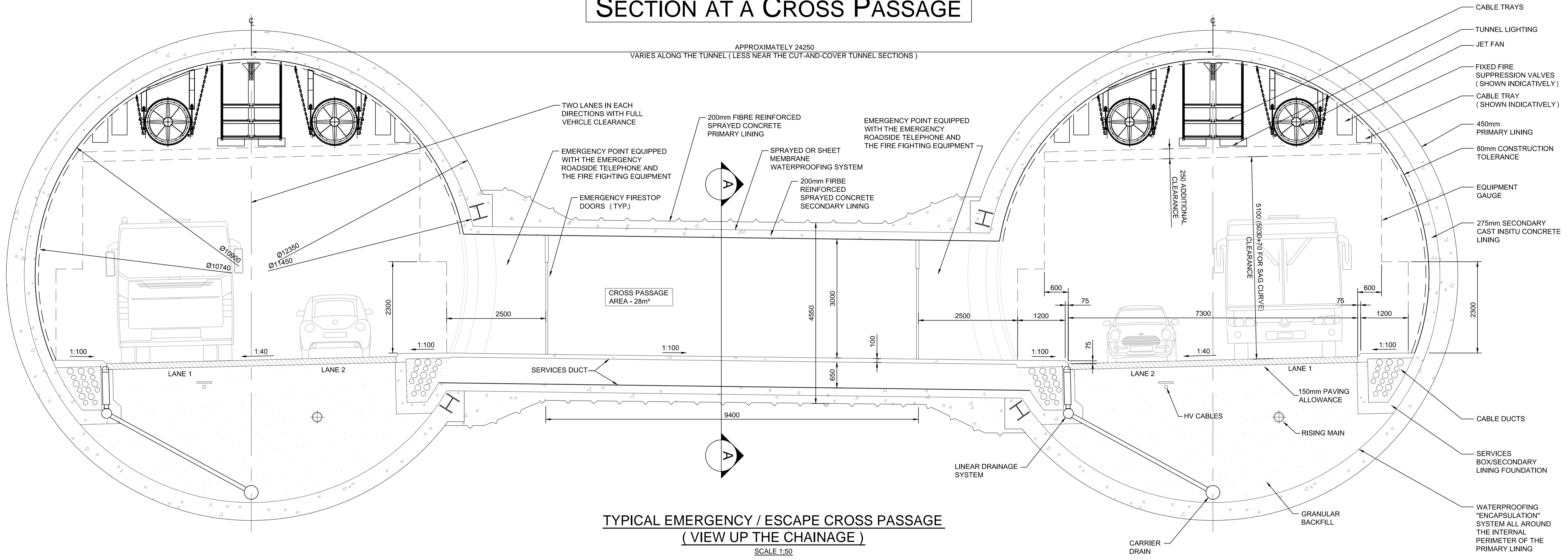
Client: **Transport for London**

Project Title		SILVERTOWN TUNNEL REFERENCE DESIGN			
Drawing Title		GREENWICH PENINSULA SOUTHERN TIE-IN EXISTING AND PROPOSED JUNCTION ARRANGEMENTS			
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Original Size	Date	Date	Date	Date	
A1	08/10/14	08/10/14	08/10/14	---	
Drawing Number					Revision
STWTN-ATK-HGN-ASXX-DR-D-0011					P01

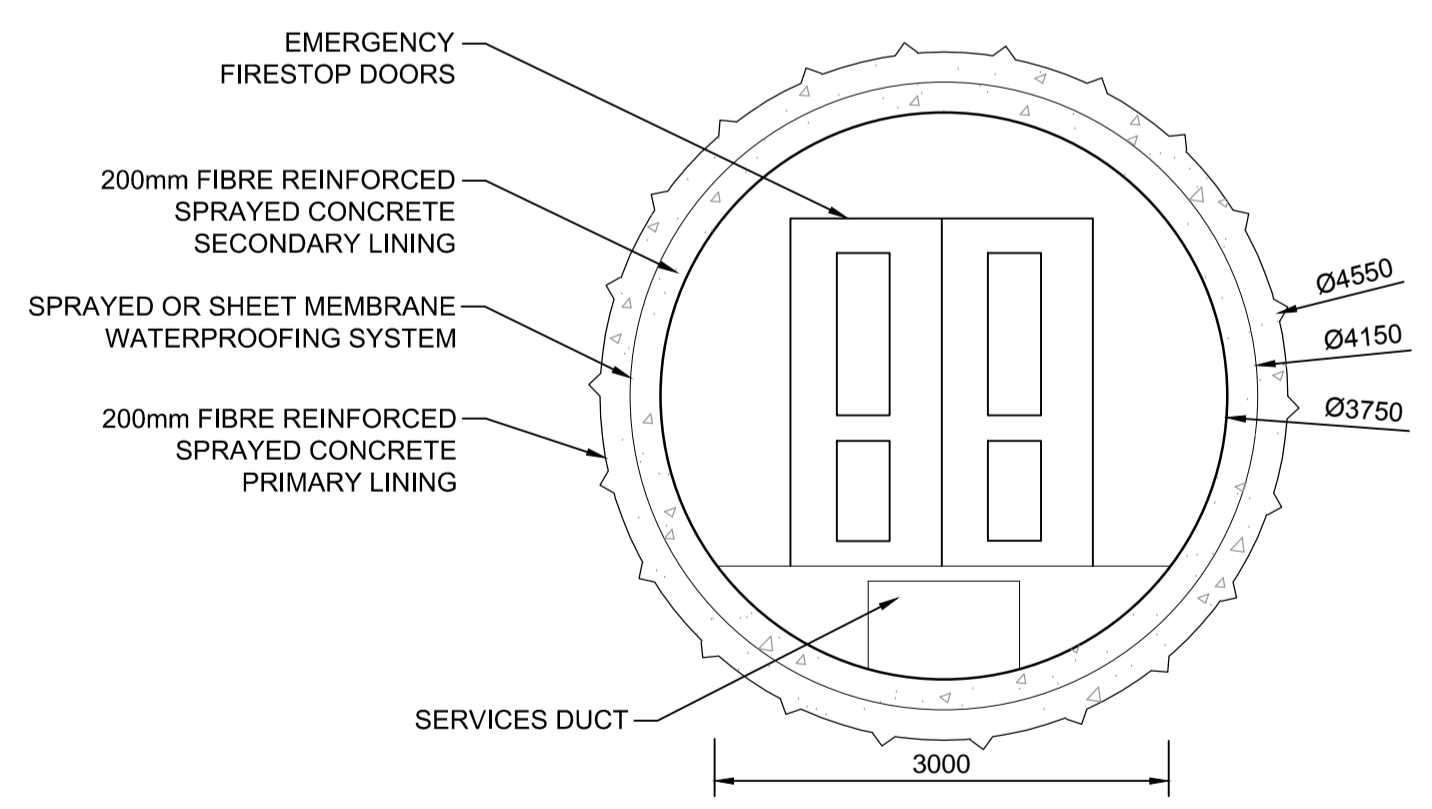
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BORED TUNNEL TYPICAL CROSS SECTION AT A CROSS PASSAGE

100
Millimetres
0 10
DO NOT SCALE



TYPICAL EMERGENCY / ESCAPE CROSS PASSAGE
(VIEW UP THE CHAINAGE)
SCALE 1:50



CROSS PASSAGE SECTION A-A
SCALE 1:50

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction	HAZ 012. Tunneling shallow under the River Thames bed, (applicable to some cross passages only) HAZ 015. Tunneling in land possibly contaminated by former gasworks. Contaminants could be coal tars and its derivatives, spent oxide, foul lime, benzene, sulphur, cyanide and the solid fuel residues such as coke, clinker and ash. HAZ 016. Hand mining in possibly contaminated land. HAZ 017. Risk of encountering historical man made obstructions buried deep below the ground level while tunnelling.
Maintenance / Cleaning	Not Applicable
Use	Not Applicable
Decommissioning / Demolition	Not Applicable

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES.
- CLEARANCES AND TOLERANCES IN ACCORDANCE WITH ATKINS REPORT No. STWTN-ATK-STU-TUXX-RP-C-0002 " TUNNEL SPACE PROOFING "
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:
 - STWTN-ATK-STU-TUXX-DR-D-0001
 - STWTN-ATK-GEN-XXXX-DR-Z-0001

P01	AP	MK	MK	08/10/14
Issue for Public Consultation				
Rev	Drawn / Des	Checked	Approved	Date
Description				

Work Status: **WORK IN PROGRESS**
Sutability: **S0**

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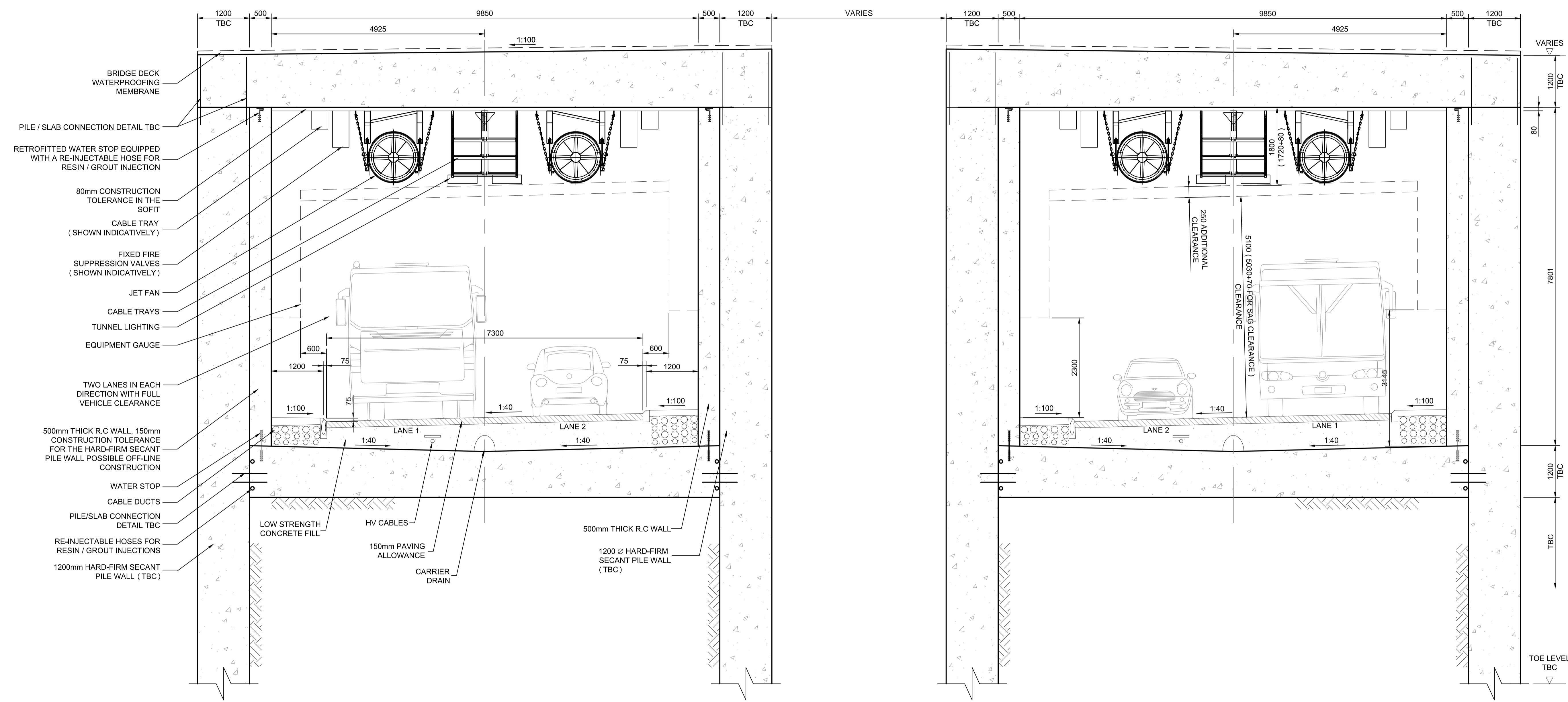
Client: **Transport for London**

Project Title: SILVERTOWN TUNNEL REFERENCE DESIGN				
Drawing Title: SILVERTOWN RIVER CROSSING BORED TUNNEL CROSS SECTION THROUGH A TYPICAL CROSS PASSAGE				
Scale: 1:50	Designed / Drawn: AP	Checked: MK	Approved: MK	Authorised: ---
Original Size: A1	Date: 08/10/14	Date: 08/10/14	Date: 08/10/14	Date: ---
Drawing Number: STWTN-ATK-STU-TUXX-DR-C-0005				Revision: P01

Plotted: Oct 08, 2014 - 4:20pm by: BRD7413

CUT-AND-COVER TUNNEL CROSS SECTION

100
Millimetres
0 10
DO NOT SCALE



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction	HAZ 011 – Tunnelling in possibly contaminated by former gasworks land. Contaminants could be coal tars, it's derivatives, spent oxide, foul lime, benzene, sulphur, cyanide and the solid fuel residues such as coke, clinker and ash. HAZ 013 – Tunnelling in an area previously occupied by the gas production facilities i.e. Rotors, possibility of encountering left in situ deep buried foundations HAZ 014 – Tunnelling in possibly contaminated by benzene and tar ground water HAZ 015 – High risk of encountering unexploded ordnance during the civil works
Maintenance / Cleaning	Not Applicable
Use	Not Applicable
Decommissioning / Demolition	Not Applicable

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES.
 - CLEARANCES AND TOLERANCES IN ACCORDANCE WITH ATKINS REPORT No. STWTN-ATK-STU-TUXX-RP-C-0002 " TUNNEL SPACE PROOFING "
 - CUT-AND-COVER TUNNEL ENGINEERING COVERED IN ATKINS REPORT No. STWTN-ATK-STU-TUXX-RP-0008 "CUT-AND-COVER TUNNEL STRUCTURES REPORT".
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:
 - STWTN-ATK-STU-TUXX-DR-C-0001
 - STWTN-ATK-STU-XXXX-DR-Z-0001

P01	AP	MK	MK	08/10/14
Issue for Public Consultation				
Rev	Drawn / Des	Checked	Approved	Date
Description				

Work Status: **WORK IN PROGRESS**
Sustainability: **S0**

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Scale	Designed / Drawn	Checked	Approved	Authorised
1:50	AP	MK	MK	---
Original Size	Date	Date	Date	Date
A1	08/10/14	08/10/14	08/10/14	---

Project Title: **SILVERTOWN TUNNEL REFERENCE DESIGN**

Drawing Title: **SILVERTOWN RIVER CROSSING CUT-AND-COVER TUNNEL CROSS SECTION**

Drawing Number: **STWTN-ATK-STU-TUXX-DR-C-0011**

Revision: **P01**

Printed: Oct 08, 2014 - 4:24pm by: BRD7413