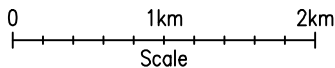
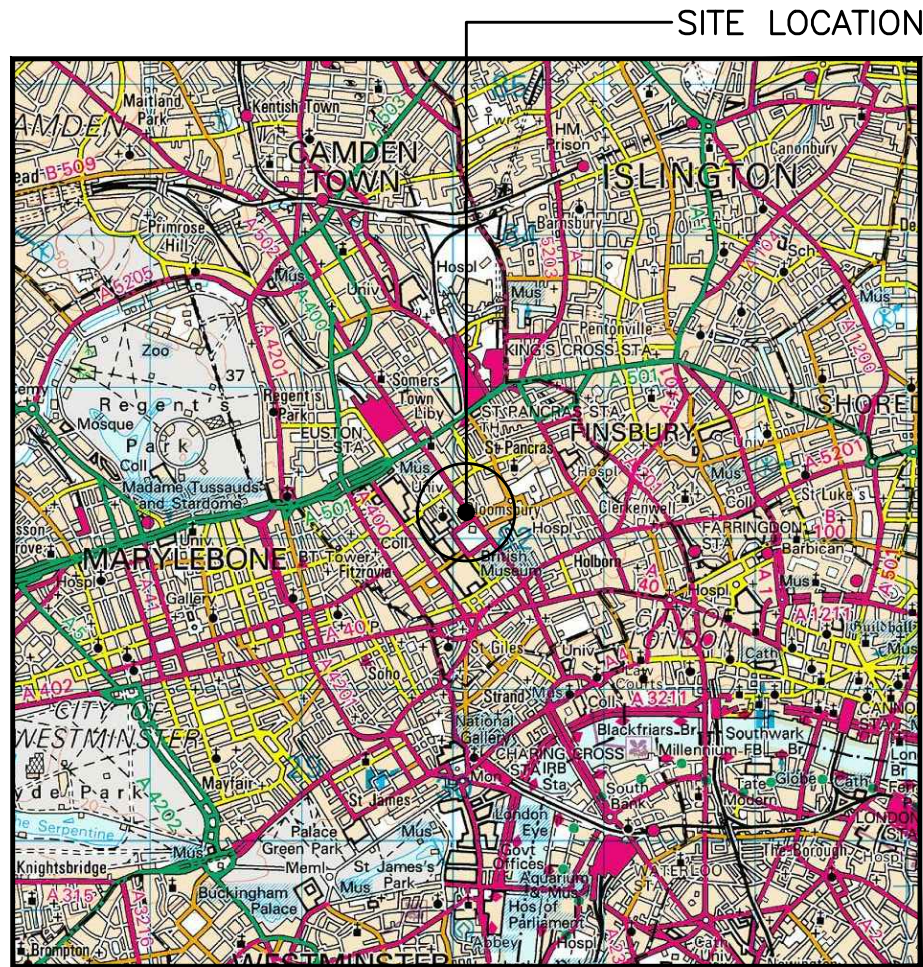


ROYAL NATIONAL HOTEL  
50 WOBURN PLACE  
BLOOMSBURY  
LONDON  
WC1H 0DG

00357

[illegible]



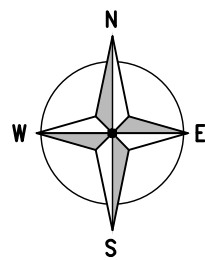


**SITE LOCATION**  
(Scale 1:50000)  
Ordnance Survey map extract  
based upon Landranger map series  
with the permission of the controller of  
Her Majesty's Stationery Office  
Licence No. 0100023487  
Crown copyright.



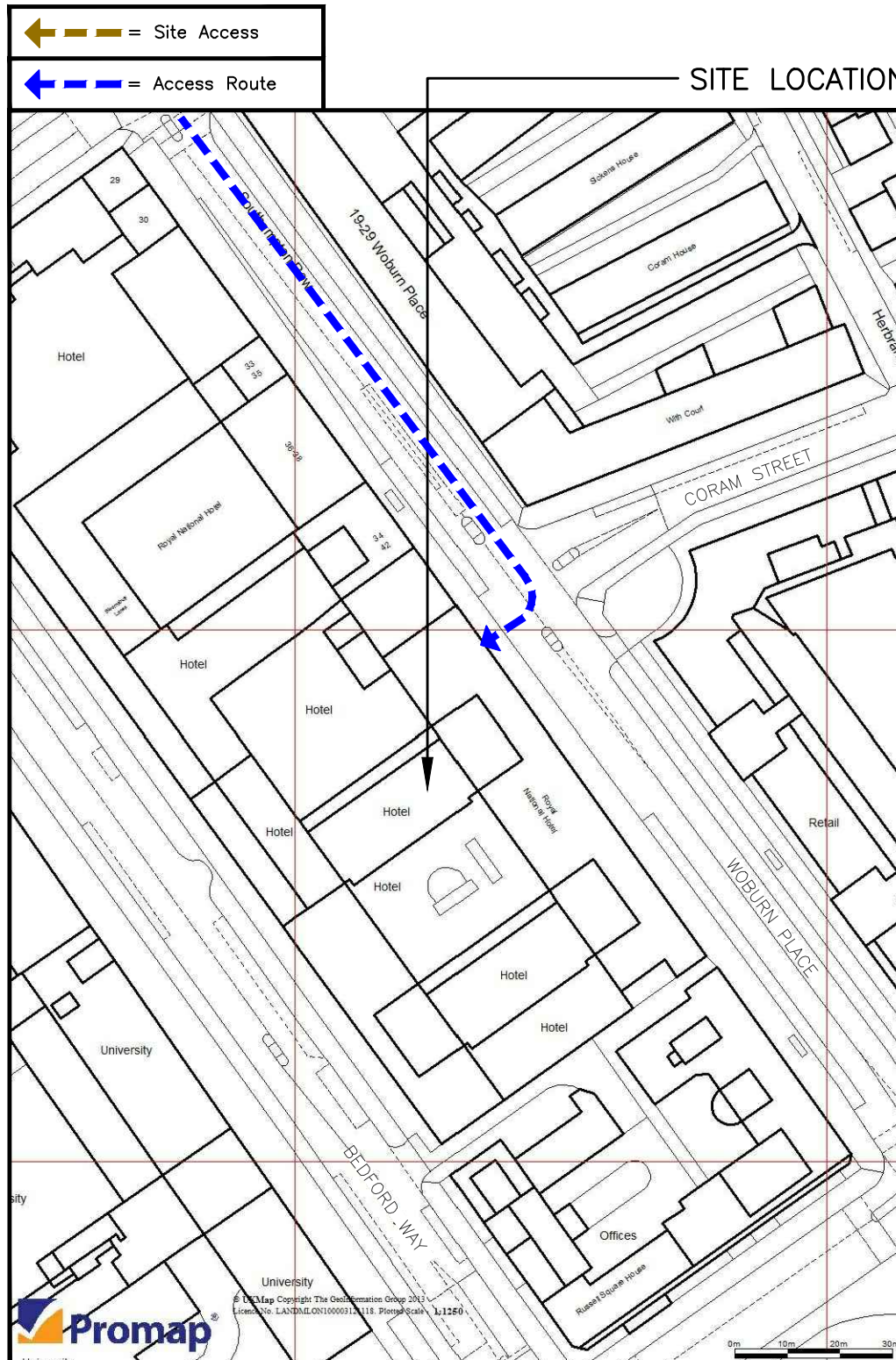
SITE PHOTOGRAPH

The drawings comply with TEF & Vodafone Standard ICNIRP guidelines.  
Designed in accordance with CTIL document: SDN0008



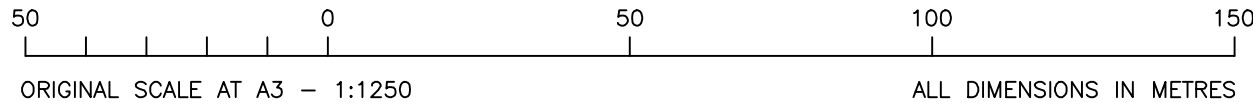
1822 00

1821 00



**DETAILED SITE LOCATION**  
(Scale 1:1250)

Based upon Ordnance Survey map extract  
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ORIGINAL SCALE AT A3 - 1:1250

ALL DIMENSIONS IN METRES

1. ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE  
2. DRAWING TO SCALE WHEN PRINTED AT A3

N.G.R. E: 530025 N: 182180

CONCESSION REQUIRED NO

**DIRECTIONS TO SITE:**  
LEAVE M1 AT END OF MOTORWAY (JUNCT 1).  
AT ROUNDABOUT TAKE THE 1ST EXIT, THEN  
MERGE ONTO THE A406. AT BRENT CROSS  
INTERCHANGE, BRANCH LEFT, THEN AT  
ROUNDABOUT TAKE THE 3RD EXIT. MERGE  
ONTO THE A41. CONTINUE ON A41 UNTIL YOU  
REACH MARYLEBONE ROAD/A501 THEN TURN  
LEFT AT TRAFFIC SIGNALS. TURN RIGHT ONTO  
THE A4200 WOBURN PLACE & SITE IS  
LOCATED ON THE RIGHT HAND SIDE OPPOSITE  
CORAM STREET.

A	Issued for Approval	SPD	DS	15.10.18
REV	MODIFICATION	BY	CH	DATE

**WHP Telecoms Ltd**  
St James Court  
Wilderspool Causeway  
Warrington WA4 6PS  
Tel: 01925 424100 Fax: 01925 424101  
e-mail: info@wilkinson-helsby.co.uk

**vodafone**  
CTIL

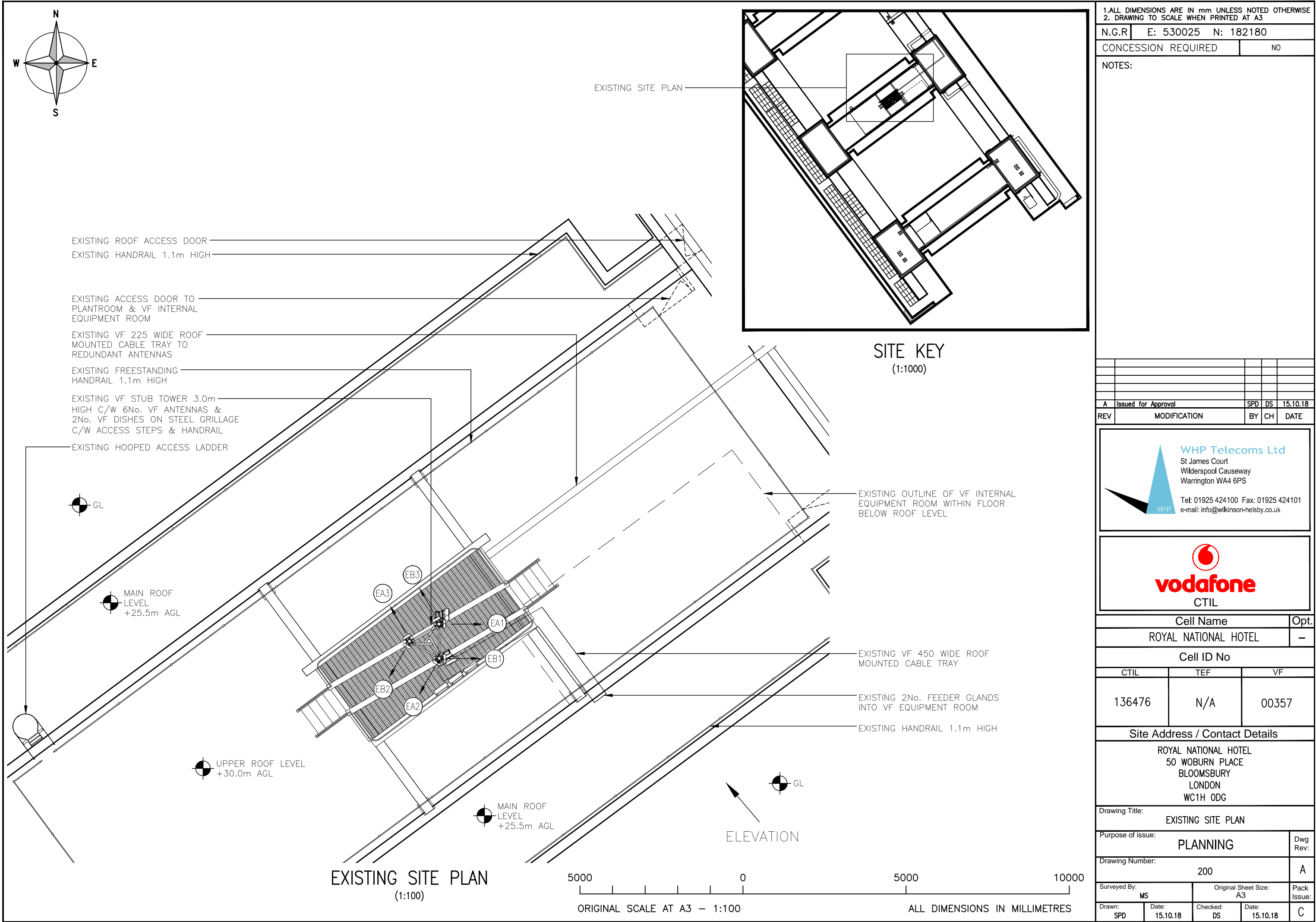
Cell Name		Opt.
ROYAL NATIONAL HOTEL		-
Cell ID No		
CTIL	TEF	VF
136476	N/A	00357

**Site Address / Contact Details**  
ROYAL NATIONAL HOTEL  
50 WOBURN PLACE  
BLOOMSBURY  
LONDON  
WC1H 0DG

Drawing Title: SITE LOCATION MAPS				
Purpose of issue: PLANNING				Dwg Rev:
Drawing Number: 100				A
Surveyed By: MS		Original Sheet Size: A3		Pack Issue:
Drawn: SPD	Date: 15.10.18	Checked: DS	Date: 15.10.18	C








1.ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE  
2. DRAWING TO SCALE WHEN PRINTED AT A3

N.G.R	E: 530025	N: 182180
CONCESSION REQUIRED		NO

NOTES:


A	Issued for Approval	SPD	DS	15.10.18
REV	MODIFICATION	BY	CH	DATE



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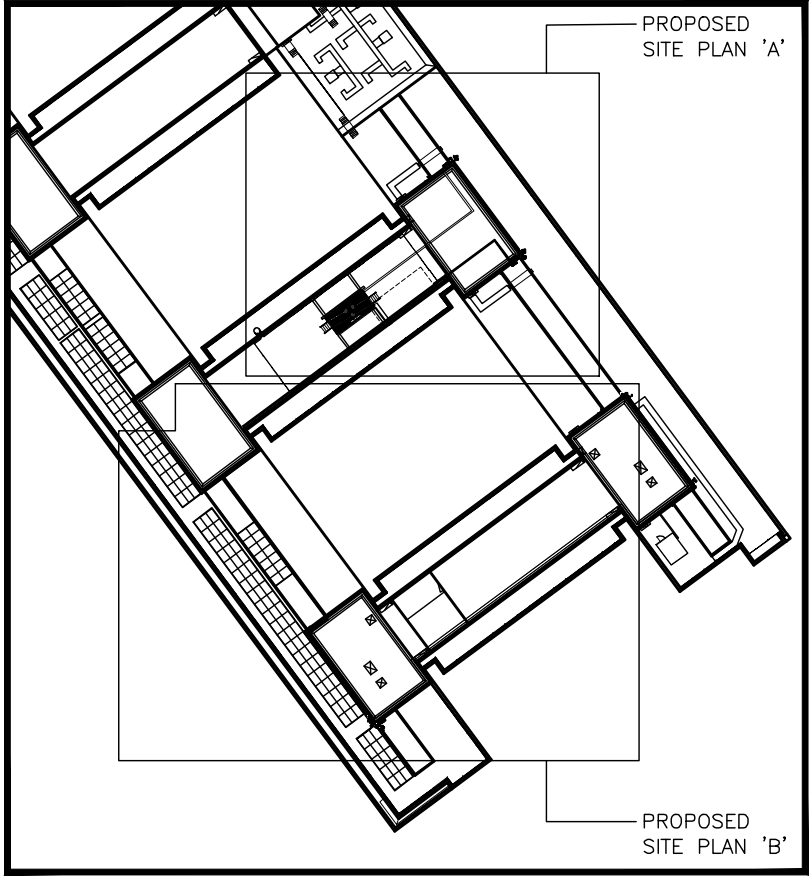
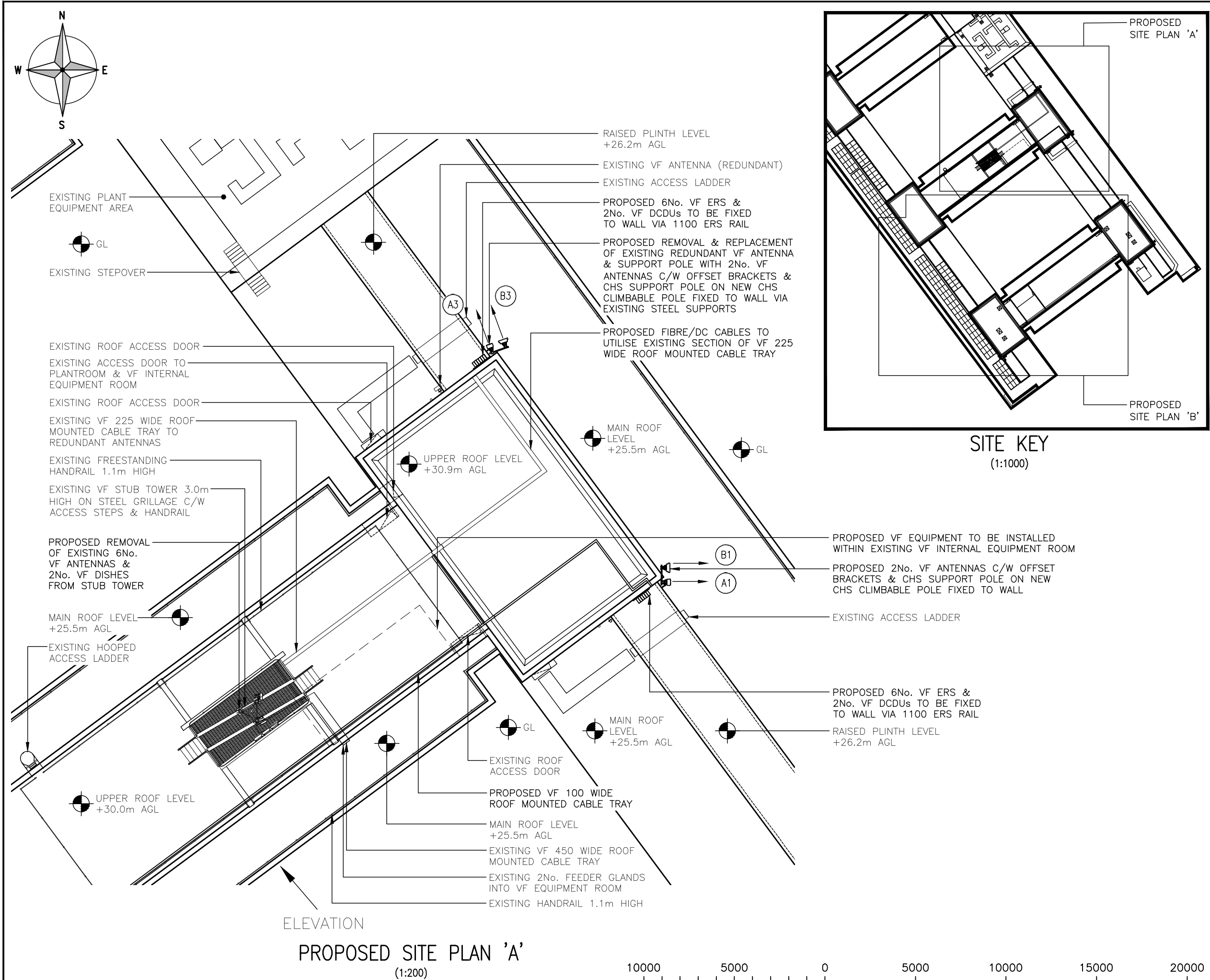


vodafone

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Cell Name		Opt.
ROYAL NATIONAL HOTEL		-
Cell ID No		
CTIL	TEF	VF
136476	N/A	00357
Site Address / Contact Details		
ROYAL NATIONAL HOTEL 50 WOBURN PLACE BLOOMSBURY LONDON WC1H 0DG		
Drawing Title: EXISTING SITE PLAN		
Purpose of issue: PLANNING		Dwg Rev:
Drawing Number: 200		A
Surveyed By: MS	Original Sheet Size: A3	Pack Issue:
Drawn: SPD	Date: 15.10.18	Checked: DS
	Date: 15.10.18	C





**SITE KEY**  
(1:1000)

1.ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE  
2. DRAWING TO SCALE WHEN PRINTED AT A3

N.G.R	E: 530025	N: 182180
CONCESSION REQUIRED		NO

NOTES:

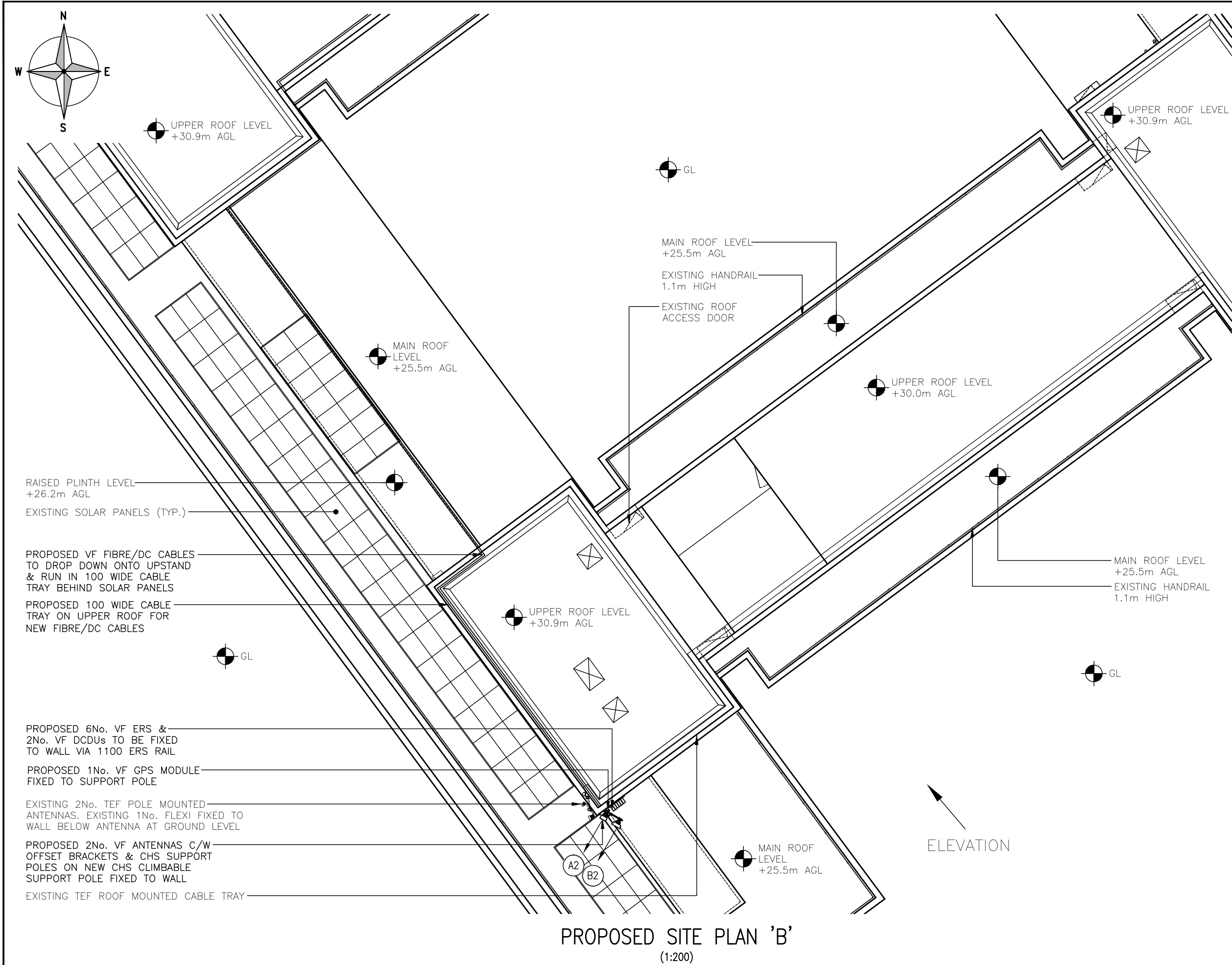
REV	MODIFICATION	BY	CH	DATE
B	Config Change	SPD	DS	08.11.18
A	Issued for Approval	SPD	DS	15.10.18

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**vodafone**  
CTIL

Cell Name		Opt.
ROYAL NATIONAL HOTEL		-
Cell ID No		
CTIL	TEF	VF
136476	N/A	00357
Site Address / Contact Details		
ROYAL NATIONAL HOTEL 50 WOBURN PLACE BLOOMSBURY LONDON WC1H 0DG		
Drawing Title: PROPOSED SITE PLAN 'A'		
Purpose of issue: PLANNING		Dwg Rev:
Drawing Number: 201		B
Surveyed By: MS	Original Sheet Size: A3	Pack Issue:
Drawn: SPD	Date: 15.10.18	Checked: DS
	Date: 15.10.18	C

The drawings comply with TEF & Vodafone Standard ICNIRP guidelines.  
Designed in accordance with CTIL document: SDN0008



The drawings comply with TEF & Vodafone Standard ICNIRP guidelines.  
Designed in accordance with CTIL document: SDN0008

1.ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE  
2. DRAWING TO SCALE WHEN PRINTED AT A3

N.G.R

E: 530025


N: 182180

CONCESSION REQUIRED

NO

NOTES:


B	Config Change	SPD	DS	08.11.18
A	Issued for Approval	SPD	DS	15.10.18
REV	MODIFICATION	BY	CH	DATE



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Cell Name

Opt.

ROYAL NATIONAL HOTEL

-

Cell ID No

CTIL

TEF

VF

136476

N/A

00357

Site Address / Contact Details

ROYAL NATIONAL HOTEL  
50 WOBURN PLACE  
BLOOMSBURY  
LONDON  
WC1H 0DG

Drawing Title:

PROPOSED SITE PLAN 'B'

Purpose of issue:

PLANNING

Dwg Rev:

Drawing Number:

202

B

Surveyed By:

MS

Original Sheet Size:

A3

Pack Issue:

Drawn:

SPD

Date:

15.10.18

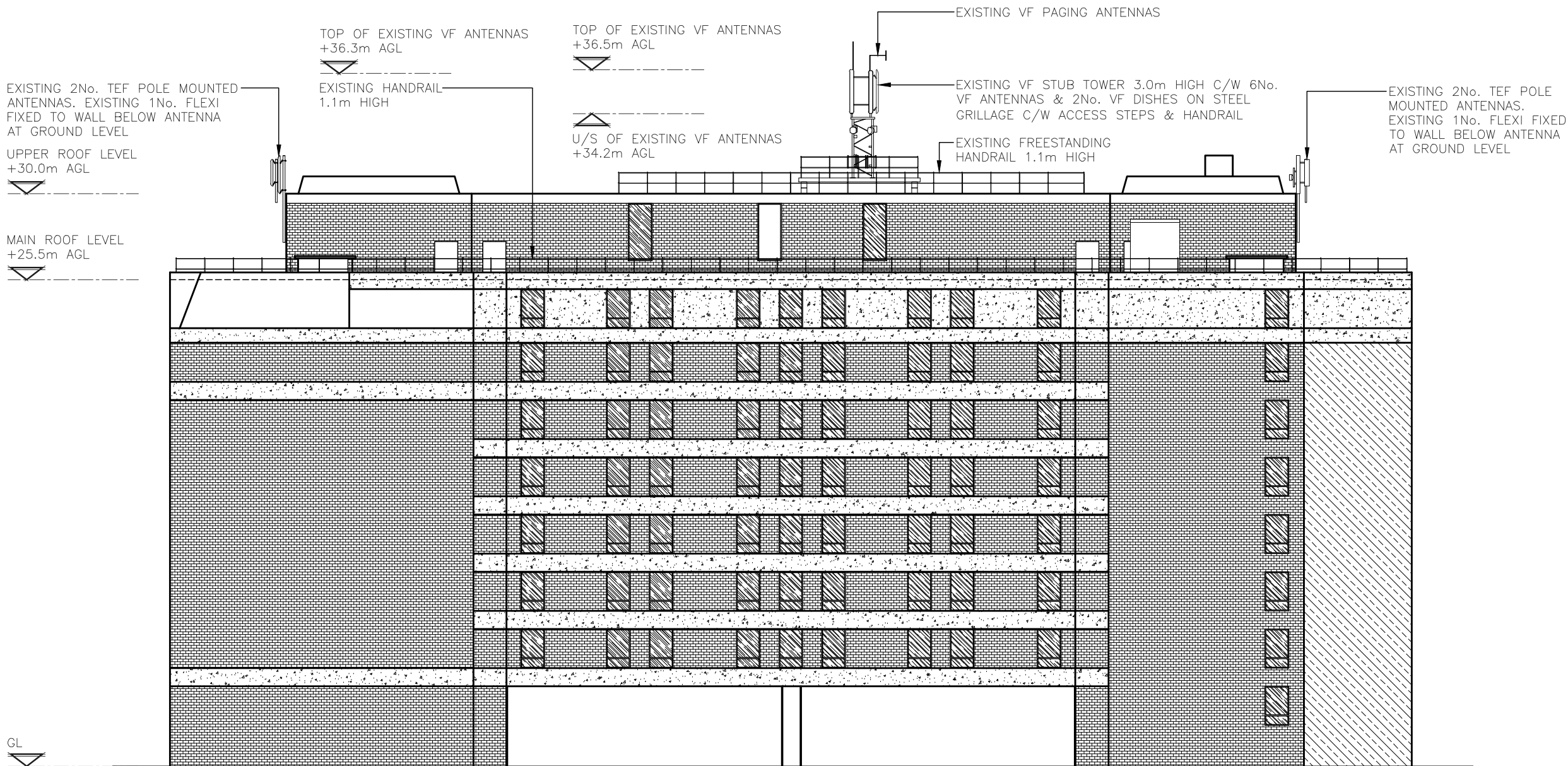
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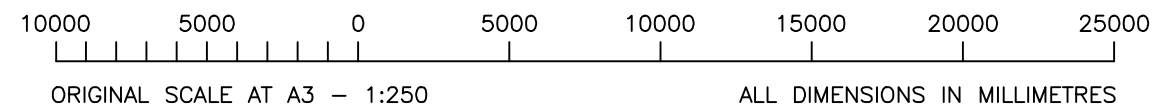
Date:

15.10.18

C



EXISTING SOUTHEAST ELEVATION  
(1:250)




1.ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE  
2. DRAWING TO SCALE WHEN PRINTED AT A3


N.G.R	E: 530025	N: 182180
CONCESSION REQUIRED		NO

NOTES:

A	Issued for Approval	SPD	DS	15.10.18
REV	MODIFICATION	BY	CH	DATE



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**vodafone**  
CTIL

Cell Name		Opt.
ROYAL NATIONAL HOTEL		-
Cell ID No		
CTIL	TEF	VF
136476	N/A	00357
Site Address / Contact Details		
ROYAL NATIONAL HOTEL 50 WOBURN PLACE BLOOMSBURY LONDON WC1H ODG		
Drawing Title: EXISTING SOUTHEAST ELEVATION		
Purpose of issue: PLANNING		Dwg Rev:
Drawing Number: 300		A
Surveyed By: MS	Original Sheet Size: A3	Pack Issue:
Drawn: SPD	Date: 15.10.18	Checked: DS
Date: 15.10.18	Date: 15.10.18	C

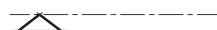


PROPOSED REMOVAL  
OF EXISTING 6No.  
VF ANTENNAS &  
2No. VF DISHES  
FROM STUB TOWER

PROPOSED 1No. VF GPS MODULE  
FIXED TO CHS SUPPORT POLE

PROPOSED 2No. VF ANTENNAS C/W  
OFFSET BRACKETS & CHS SUPPORT  
POLES ON NEW CHS CLIMBABLE  
SUPPORT POLE FIXED TO WALL

TOP OF PROPOSED VF ANTENNAS  
+33.9m AGL



U/S OF PROPOSED VF ANTENNAS  
+32.1m AGL

MAIN ROOF LEVEL  
+25.5m AGL



EXISTING 2No. TEF POLE MOUNTED  
ANTENNAS. EXISTING 1No. FLEXI  
FIXED TO WALL BELOW ANTENNA  
AT GROUND LEVEL

PROPOSED 6No. VF ERS &  
2No. VF DCDUs TO BE FIXED  
TO WALL VIA 1100 ERS RAIL

GL

EXISTING HANDRAIL 1.1m HIGH  
U/S OF PROPOSED VF ANTENNAS  
+32.0m AGL



EXISTING VF PAGING ANTENNAS

EXISTING VF STUB TOWER 3.0m HIGH ON STEEL  
GRILLAGE C/W ACCESS STEPS & HANDRAIL.

EXISTING FREESTANDING  
HANDRAIL 1.1m HIGH

PROPOSED 2No. VF  
ANTENNAS C/W OFFSET  
BRACKETS & CHS  
SUPPORT POLE ON NEW  
CHS CLIMBABLE POLE  
FIXED TO WALL VIA  
EXISTING STEEL SUPPORTS  
(BEHIND)

PROPOSED 2No. VF  
ANTENNAS C/W OFFSET  
BRACKETS & CHS  
SUPPORT POLE ON NEW  
CHS CLIMBABLE POLE  
FIXED TO WALL

UPPER ROOF LEVEL  
+30.0m AGL



EXISTING 2No. TEF POLE MOUNTED  
ANTENNAS.  
EXISTING 1No. FLEXI FIXED  
TO WALL BELOW ANTENNA  
AT GROUND LEVEL

PROPOSED 6No. VF ERS  
& 2No. VF DCDUs TO  
BE FIXED TO WALL VIA  
1100 ERS RAIL

PROPOSED SOUTHEAST ELEVATION  
(1:250)

10000 5000 0 5000 10000 15000 20000 25000

ORIGINAL SCALE AT A3 - 1:250

ALL DIMENSIONS IN MILLIMETRES

The drawings comply with TEF & Vodafone Standard ICNIRP guidelines.  
Designed in accordance with CTIL document: SDN0008

1.ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE  
2. DRAWING TO SCALE WHEN PRINTED AT A3

N.G.R | E: 530025 N: 182180

CONCESSION REQUIRED

NO

NOTES:

B	Config Change	SPD	DS	08.11.18
A	Issued for Approval	SPD	DS	15.10.18
REV	MODIFICATION	BY	CH	DATE



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**vodafone**  
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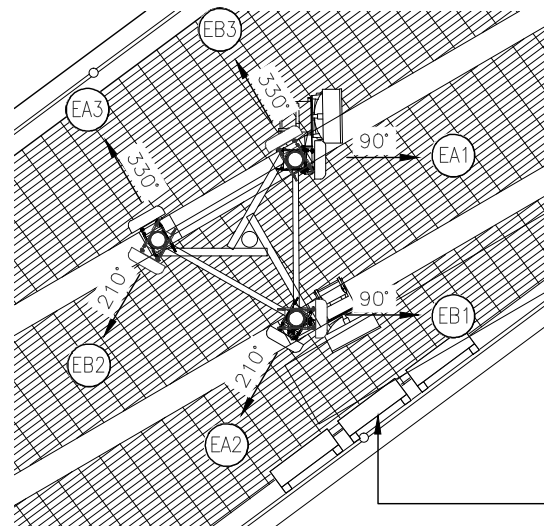
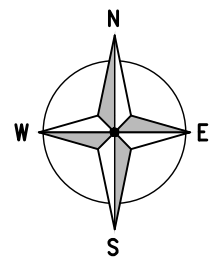
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Cell ID No		
CTIL	TEF	VF
136476	N/A	00357

Site Address / Contact Details		
ROYAL NATIONAL HOTEL 50 WOBURN PLACE BLOOMSBURY LONDON WC1H 0DG		

Drawing Title: PROPOSED SOUTHEAST ELEVATION		
Purpose of issue: PLANNING		Dwg Rev:
Drawing Number: 301		B
Surveyed By: MS	Original Sheet Size: A3	Pack Issue:
Drawn: SPD	Date: 15.10.18	Checked: DS
Date: 15.10.18		C

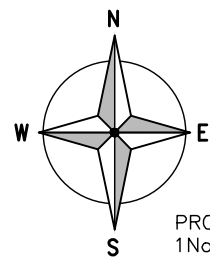




EXISTING 3No. VF RRU'S  
(L21) FIXED TO HANDRAIL  
VIA UNISTRUT

### EXISTING VF ANTENNA PLAN

(1:50)



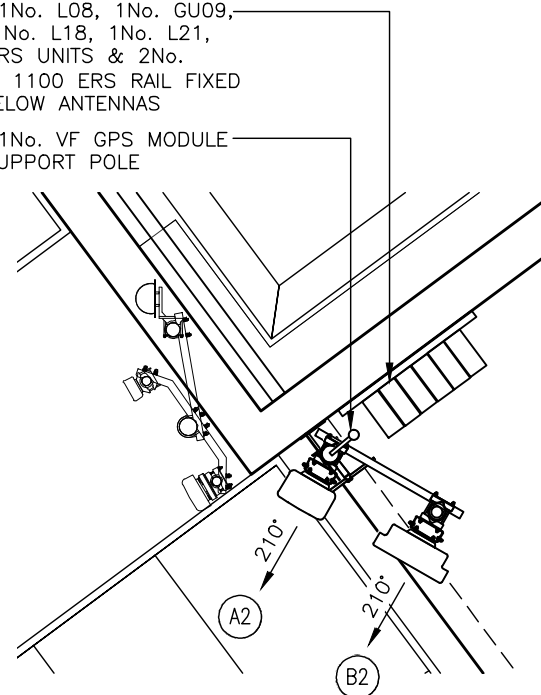
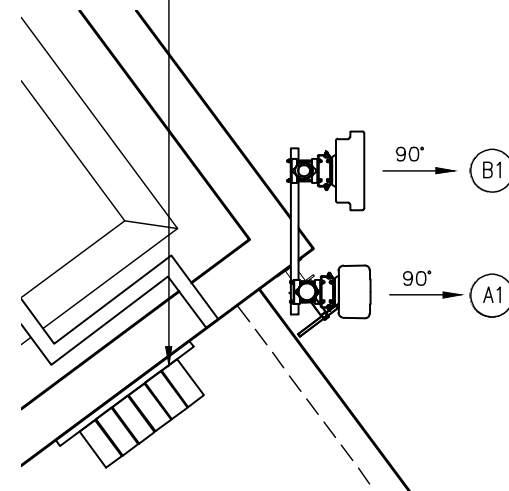
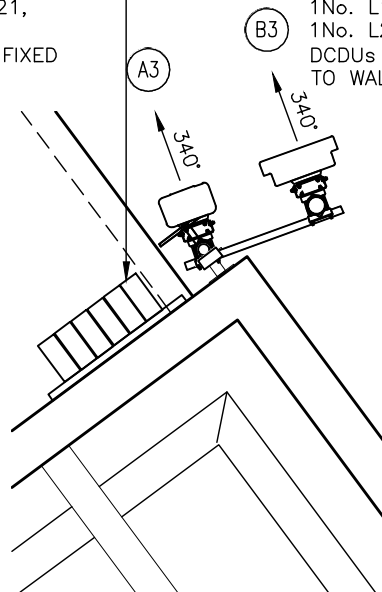
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1No. L14, 1No. L18, 1No. L21,  
1No. L26 ERS UNITS & 2No.  
DCDUs C/W 1100 ERS RAIL FIXED  
TO WALL BELOW ANTENNAS

PROPOSED 1No. L08, 1No. GU09,  
1No. L14, 1No. L18, 1No. L21,  
1No. L26 ERS UNITS & 2No.  
DCDUs C/W 1100 ERS RAIL FIXED  
TO WALL BELOW ANTENNAS

PROPOSED 1No. L08, 1No. GU09,  
1No. L14, 1No. L18, 1No. L21,  
1No. L26 ERS UNITS & 2No.  
DCDUs C/W 1100 ERS RAIL FIXED  
TO WALL BELOW ANTENNAS

PROPOSED 1No. VF GPS MODULE  
FIXED TO SUPPORT POLE

NOTE:  
PROPOSED REMOVAL  
OF EXISTING 6No.  
VF ANTENNAS &  
2No. VF DISHES  
FROM STUB TOWER



NOTE:  
EXISTING FEEDERS TO STUB MAST TO BE  
DISCONNECTED & CAPPED AT STUB MAST

EXISTING REDUNDANT FEEDERS WITHIN  
225 WIDE CABLE TRAY TO REDUNDANT  
VF ANTENNAS TO BE REMOVED

PROPOSED DC/FIBRE TO UTILISE SPARE  
WAYS WITHIN EXISTING GLANDS

### PROPOSED VF ANTENNA PLAN

(1:50)



ORIGINAL SCALE AT A3 - 1:50

ALL DIMENSIONS IN MILLIMETRES

1.ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE  
2. DRAWING TO SCALE WHEN PRINTED AT A3

N.G.R | E: 530025 N: 182180

CONCESSION REQUIRED | NO

NOTES:

REV	MODIFICATION	BY	CH	DATE
B	Config Change	SPD	DS	08.11.18
A	Issued for Approval	SPD	DS	15.10.18



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**vodafone**  
CTIL

Cell Name	Opt.
ROYAL NATIONAL HOTEL	-

Cell ID No		
CTIL	TEF	VF
136476	N/A	00357

Site Address / Contact Details		
ROYAL NATIONAL HOTEL 50 WOBURN PLACE BLOOMSBURY LONDON WC1H ODG		

Drawing Title: ANTENNA PLANS			
Purpose of issue: PLANNING			Dwg Rev: B
Drawing Number: 400			Pack Issue: C
Surveyed By: MS	Original Sheet Size: A3		
Drawn: SPD	Date: 15.10.18	Checked: DS	Date: 15.10.18

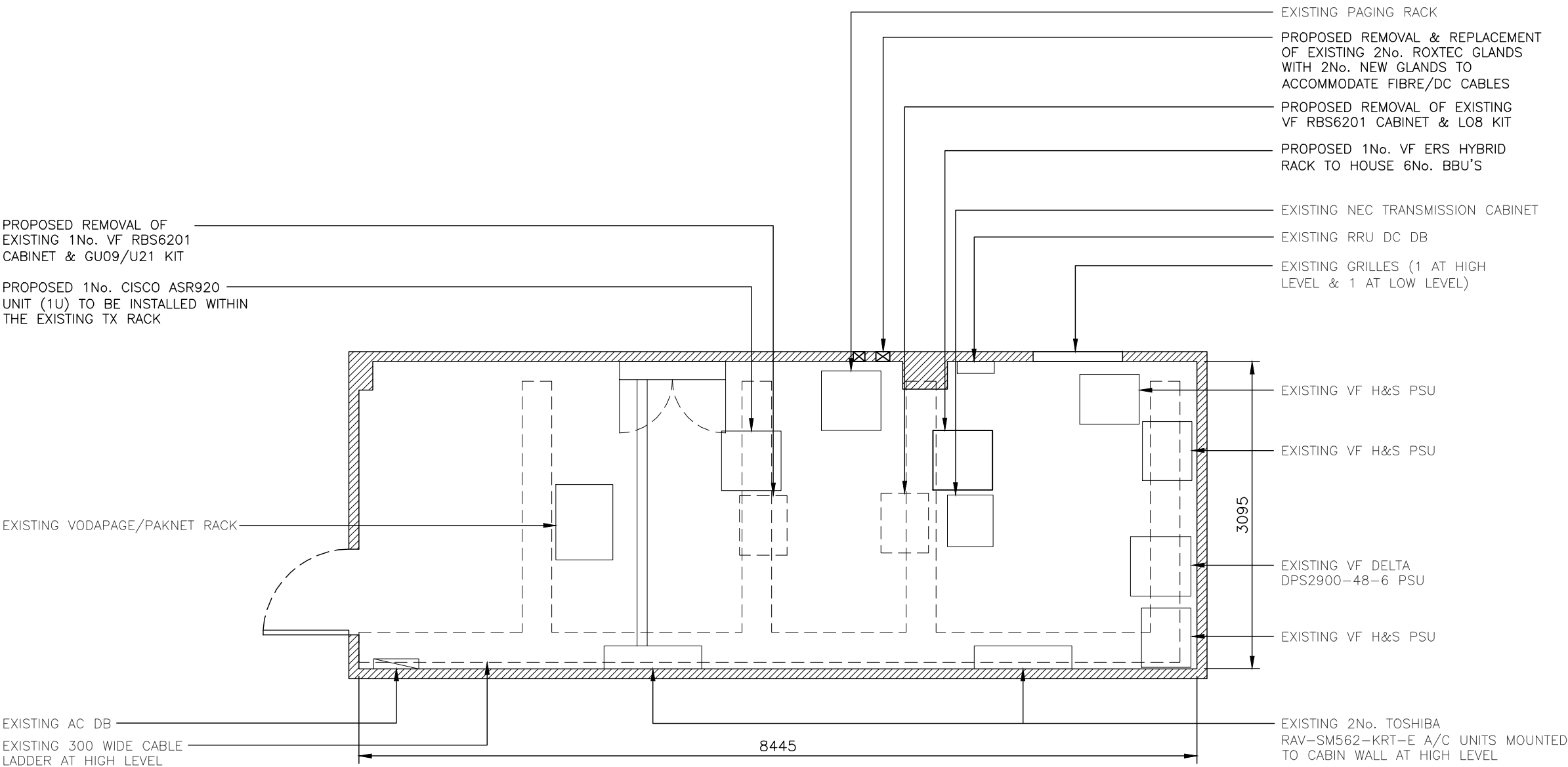
FOR SITE DESIGN DEPENDENCIES REFER TO DRAWING 503

1.ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE  
2. DRAWING TO SCALE WHEN PRINTED AT A3

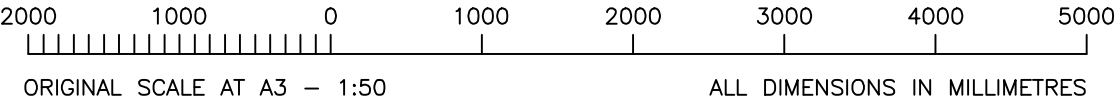
N.G.R | E: 530025 N: 182180

CONCESSION REQUIRED | NO

NOTES:



EQUIPMENT ROOM LAYOUT  
(1:50)




The drawings comply with TEF & Vodafone Standard ICNIRP guidelines.  
Designed in accordance with CTIL document: SDN0008

B	Config Change	SPD	DS	08.11.18
A	Issued for Approval	SPD	DS	15.10.18

REV	MODIFICATION	BY	CH	DATE
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**vodafone**  
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ROYAL NATIONAL HOTEL	-

Cell ID No		
CTIL	TEF	VF
136476	N/A	00357

Site Address / Contact Details		
ROYAL NATIONAL HOTEL 50 WOBURN PLACE BLOOMSBURY LONDON WC1H 0DG		

Drawing Title:	EQUIPMENT ROOM LAYOUT
----------------	-----------------------

Purpose of issue:	PLANNING	Dwg Rev:
Drawing Number:	401	B

Drawing Number:				401	B			
Surveyed By:		MS		Original Sheet Size:	A3	Pack Issue:		
Drawn:	SPD	Date:	15.10.18	Checked:	DS	Date:	15.10.18	C

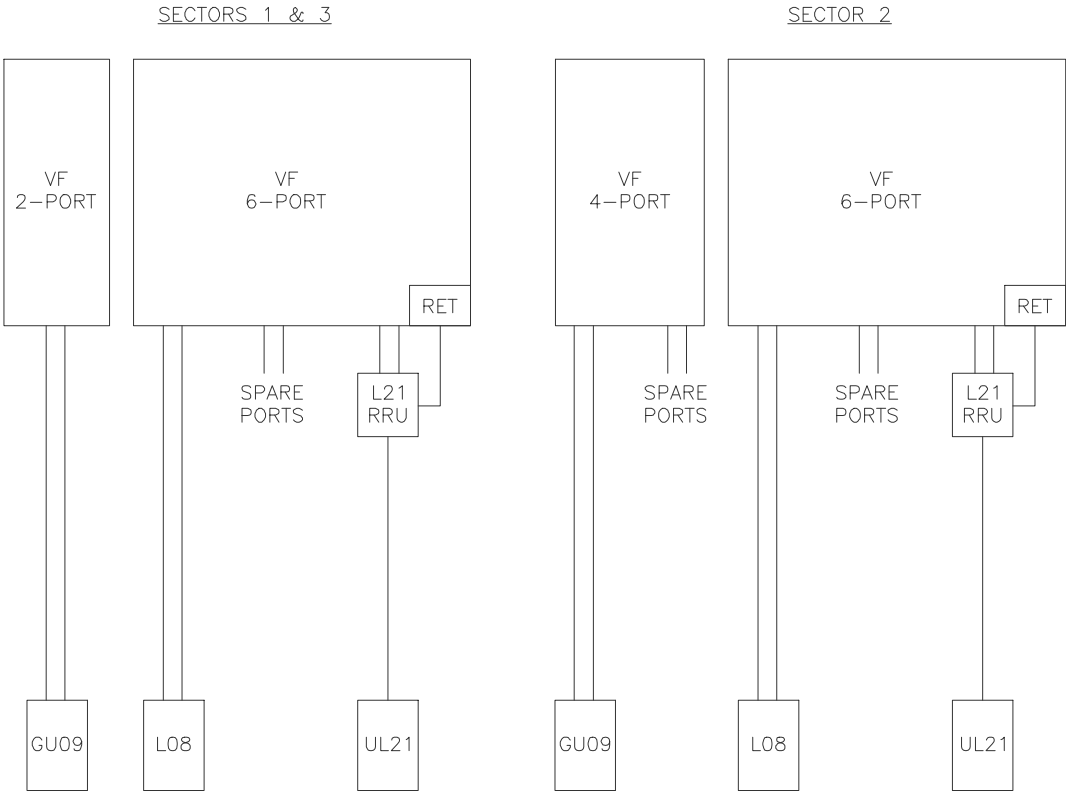




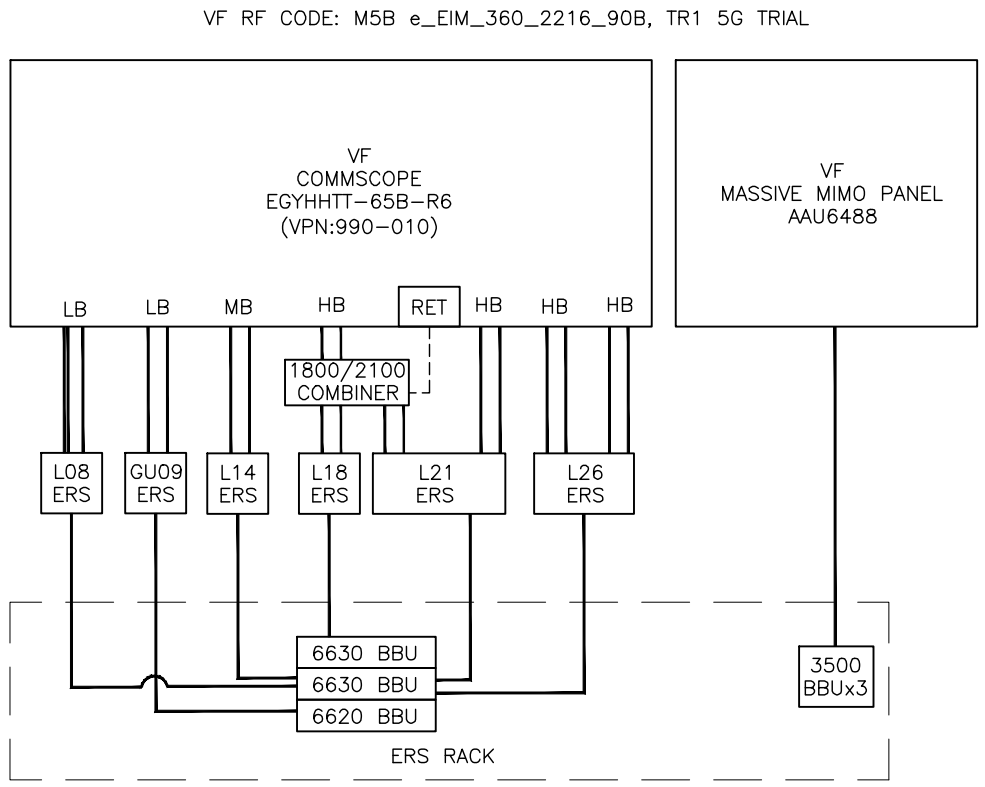
VF RF CODE: M5B e_EIM_360_2216_90B, TR1 5G TRIAL															1.ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE 2. DRAWING TO SCALE WHEN PRINTED AT A3																		
PROPOSED ANTENNA SCHEDULE																																	
PROPOSED & EXISTING ANTENNAS	OPERATOR	FUNCTION	FEEDER/DC/FIBRE							MHA's/RRU's/BIAS T's/JUMPERS/COMBINERS								ANTENNAS															
			LENGTH(m) & DIAMETER (SEE GUIDANCE NOTES BELOW)				TYPE (COAX OR DC/FIBRE)	FEEDERS QTY		DC/FIBRE QTY	DC/FIBRE LENGTH	MHA NOKIA QTY	MHA ERICSSON QTY	ERS/RRU QTY	BIAS T QTY	RRU TO ANTENNA JUMPER LENGTH (TO BE WITHIN MAX LENGTH ALLOWED AS PER CTIL DESIGN SPEC)	MHA TO ANTENNA JUMPER LENGTH (m) - RTOPS & GFIELDS)	COMBINERS (HIGH LEVEL)	COMBINERS (LOW LEVEL IN CABINET, CABIN ETC)	ANT. REF.	ANTENNA MANUFACTURERS PART No.	BRG*	HEIGHT TO TOP (m)	HEIGHT TO U/S (m)	HEIGHT TO C/L (m)	LOCATION (POLE MOUNTED, HEADFRAME, WITHIN SHROUD ETC)	STATUS	COMMENTS					
			MF1	MF(J1)	MF(J2)	TOTAL		EX'TNG	PROP																								
SECTOR 1	EX. CONFIG	VF	1GU9	7/8=16m	-	-	16m	COAX	-	-	-	-	-	-	-	-	-	-	-	EA1	305-016	90°	36.5	34.2	35.3	POLEMOUNT	REMOVE	-					
		VF	1L08	7/8=16m	-	-	16m	COAX	-	-	-	-	-	-	-	-	-	-	-	EB1a	COMMSCOPE RVVPX308-14R3	90°	36.3	34.2	35.2	POLE MOUNTED	REMOVE	-					
		VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EB1b													
		VF	1UL21	-	-	-	-	DC/FIBRE	-	-	-	1	16m	-	-	1	-	4.0m	-	-									EB1c				
	2No. PROPOSED ANTENNA	VF	1L08	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-	-	A1a	COMMSCOPE EGYHHTT-65B-R6 (VPN:990-010)	90°	33.9	32.0	33.0	POLE MOUNTED	NEW	L14 FILTER INSTALLED				
		VF	1GU9	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-	-	A1b												
		VF	1L14	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-	-	A1c												
		VF	1L18	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-	1800/2100 COMBINERS	-									A1d			
		VF	1L21	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-														
		VF	1L21	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-														
VF		1L26	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-															
VF	1L26	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-	-	A1f														
VF	1L35	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	-	-	-	-	A1g													
SECTOR 2	EX. CONFIG	VF	2GU9	7/8=16m	-	-	16m	COAX	-	-	-	-	-	-	-	-	-	-	-	EA2a	KATHREIN 80010665v01	210°	36.2	34.2	35.2	POLE MOUNTED	REMOVE	-					
		VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA2b												
	EX. CONFIG	VF	2L08	7/8=16m	-	-	16m	COAX	-	-	-	-	-	-	-	-	-	-	-	EB2a	COMMSCOPE RVVPX308-14R3	210°	36.3	34.2	35.2	POLE MOUNTED	REMOVE	-					
		VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EB2b													
		VF	2UL21	-	-	-	-	DC/FIBRE	-	-	-	1	16m	-	-	1	-	4.0m	-	-									-	EB2c			
	2No. PROPOSED ANTENNA	VF	2L08	-	-	-	-	DC/FIBRE	-	-	-	1	100m	-	-	1	-	5.0m	-	-	A2a	COMMSCOPE EGYHHTT-65B-R6 (VPN:990-010)	210°	33.9	32.0	33.0	POLE MOUNTED	NEW	L14 FILTER INSTALLED				
		VF	2GU9	-	-	-	-	DC/FIBRE	-	-	-	1	100m	-	-	1	-	5.0m	-	-	A2b												
		VF	2L14	-	-	-	-	DC/FIBRE	-	-	-	1	100m	-	-	1	-	5.0m	-	-	A2c												
		VF	2L18	-	-	-	-	DC/FIBRE	-	-	-	1	100m	-	-	1	-	5.0m	-	1800/2100 COMBINERS	-									A2d			
		VF	2L21	-	-	-	-	DC/FIBRE	-	-	-	1	100m	-	-	1	-	5.0m	-														
VF		2L21	-	-	-	-	DC/FIBRE	-	-	-	1	100m	-	-	1	-	5.0m	-															
VF		2L26	-	-	-	-	DC/FIBRE	-	-	-	1	100m	-	-	1	-	5.0m	-															
VF		2L26	-	-	-	-	DC/FIBRE	-	-	-	1	100m	-	-	1	-	5.0m	-	-														
VF	2L35	-	-	-	-	DC/FIBRE	-	-	-	1	100m	-	-	1	-	-	-	-	-	A2g													
SECTOR 3	EX. CONFIG	VF	3GU9	7/8=16m	-	-	16m	COAX	-	-	-	-	-	-	-	-	-	-	-	EA3	305-016	330°	36.5	34.2	35.3	POLEMOUNT	REMOVE	-					
		VF	3L08	7/8=16m	-	-	16m	COAX	-	-	-	-	-	-	-	-	-	-	-	-	EB3a	COMMSCOPE RVVPX308-14R3	330°	36.3	34.2	35.2	POLE MOUNTED	REMOVE	-				
		VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EB3b												
		VF	3UL21	-	-	-	-	DC/FIBRE	-	-	-	1	16m	-	-	1	-	4.0m	-	-	-									EB3c			
	2No. PROPOSED ANTENNA	VF	3L08	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-	-	A3a	COMMSCOPE EGYHHTT-65B-R6 (VPN:990-010)	330°	33.9	32.0	33.0	POLE MOUNTED	NEW	L14 FILTER INSTALLED				
		VF	3GU9	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-	-	A3b												
		VF	3L14	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-	-	A3c												
		VF	3L18	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-	1800/2100 COMBINERS	-									A3d			
		VF	3L21	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-														
		VF	3L21	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-														
VF		3L26	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-															
VF	3L26	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	5.0m	-	-	A3g														
VF	3L35	-	-	-	-	DC/FIBRE	-	-	-	1	35m	-	-	1	-	-	-	-	-	B3	ERICSSON AAU6488	330°	33.9	31.9	32.9	POLE MOUNTED	NEW	-					
ANTENNA REFERENCE KEY		FUNCTION KEY					STATUS KEY					OPERATOR KEY		FEEDER LENGTH & DIAMETER GUIDANCE NOTES																			
A=	ANTENNA GROUP (A-Z)					1=	SECTOR (2,3 etc)				NEW =	NEW ONTO SITE				VF =	VODAFONE		TOTAL DISTANCE MEASURED FROM MHA TO BTS CABINET. NOTE: FOR STREET POLES THE TOTAL IS TO INCLUDE THE 7/8 FEEDER (TEF) & 1/2 FEEDER (VFU21) PRE-RIGGED IN THE POLE. IF FEEDER DIAMETER VARIES THE LENGTHS ARE TO BE ITEMISED SEQUENTIALLY IN THE COLUMNS FROM THE ANTENNA MHA TO THE BTS AS FOLLOWS: MAIN FEEDER; MAIN FEEDER JUMPER 1; MAIN FEEDER JUMPER 2; TOTAL LENGTH.														
1=	CELL No. (1, 2, 3)					U=	UMTS (G=GSM) (L=LTE)				REMAIN =	ON SITE AND NOT BEING MOVED				TEF =	TELEFONICA UK																
b=	UNIQUE BAND REFERENCE					21=	2100 BAND (09=0900,18=1800)				RE-USE =	ON SITE BUT BEING MOVED																					
DISH	Dish (1-13)										REMOVE =	REMOVED FROM SITE																					

N.G.R		E: 530025		N: 182180	
CONCESSION REQUIRED				NO	
NOTES:					





EXISTING VF ANTENNA  
AND RF SYSTEM SCHEMATIC  
(NTS)



PROPOSED VF ANTENNA  
AND RF SYSTEM SCHEMATIC  
(NTS)

1.ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE  
2. DRAWING TO SCALE WHEN PRINTED AT A3

N.G.R


E: 530025 N: 182180

CONCESSION REQUIRED


NO

NOTES:

C	Minor amendments	SPD	DS	09.11.18
B	Config Change	SPD	DS	08.11.18
A	Issued for Approval	SPD	DS	15.10.18
REV	MODIFICATION	BY	CH	DATE



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vodafone  
CTIL

Cell Name

Opt.

ROYAL NATIONAL HOTEL

-

Cell ID No

CTIL

TEF

VF

136476

N/A

00357

Site Address / Contact Details

ROYAL NATIONAL HOTEL  
50 WOBURN PLACE  
BLOOMSBURY  
LONDON  
WC1H ODG

Drawing Title:

R.F. SYSTEM SCHEMATIC

Purpose of issue:

PLANNING

Dwg Rev:

Drawing Number:

502

C

Surveyed By:

MS

Original Sheet Size:

A3

Pack Issue:

Drawn:

SPD

Date:

15.10.18

Checked:

DS

Date:

15.10.18

C

SUPPORT STRUCTURE SCHEDULE									
EXISTING/ PROPOSED	OPERATOR	MANUFACTURER	MODEL	STRUCTURE HEIGHT	FOUNDATION TYPE (ROOT/PAD/GRILLAGE)	FOUNDATION DIMENSIONS (WxDxH)	COLOUR/ FINISH	STATUS	COMMENTS
EXISTING	VF	–	STUB TOWER	3.0m	GRILLAGE	–	GALVANISED	REMAIN	–
EXISTING	VF	–	CHS ANTENNA POLES	–	–	–	GALVANISED	REMOVE	4No. SUPPORT POLES
PROPOSED	VF	–	114Ø CHS POLES	–	–	–	GALVANISED	NEW	C/W 2No. CLIMBING RUNGS AND FALL ARREST
PROPOSED	VF	–	76.1Ø CHS POLES	2.5m	–	–	GALVANISED	NEW	3No. REQUIRED
PROPOSED	VF	–	OFFSET BRACKETS	–	–	–	GALVANISED	NEW	3No. PAIRS REQUIRED
PROPOSED	VF	MAFI	1100 LONG ERS RAILS	–	–	–	GALVANISED	NEW	3No. REQUIRED SEF 901 305/0450
PROPOSED	VF	ERICSSON	GPS BRACKET	–	–	–	GALVANISED	NEW	1No. REQUIRED SXX 107 2860/1

ENCLOSURE SCHEDULE								
EXISTING/ PROPOSED	OPERATOR	MANUFACTURER	MODEL	DIMENSIONS (WxDxH)	LOCATION	COLOUR/ FINISH	STATUS	COMMENTS
EXISTING	VF	–	VODAPAGE/PAKNET RACK	760x575x1800	EQUIPMENT ROOM	GREY	REMAIN	–
EXISTING	VF	–	TX RACK	600x600x1800	EQUIPMENT ROOM	GREY	REMAIN	–
EXISTING	VF	ERICSSON	RBS6201 CABINET (1)	600x480x1800	EQUIPMENT ROOM	GREY	REMOVE	–
EXISTING	VF	ERICSSON	RBS6201 CABINET (2)	600x480x1800	EQUIPMENT ROOM	GREY	REMOVE	–
EXISTING	VF	–	PAGING RACK	600x600x1800	EQUIPMENT ROOM	GREY	REMAIN	–
EXISTING	VF	–	NEC TRANSMISSION	520x460x1800	EQUIPMENT ROOM	GREY	REMAIN	–
EXISTING	VF	H&S	PSU	600x500x1800	EQUIPMENT ROOM	GREY	REMAIN	–
EXISTING	VF	H&S	PSU	600x500x1800	EQUIPMENT ROOM	GREY	REMAIN	–
EXISTING	VF	H&S	PSU	600x500x1800	EQUIPMENT ROOM	GREY	REMAIN	–
EXISTING	VF	DELTA	DPS2900–48–6 PSU (1)	600x600x1800	EQUIPMENT ROOM	GREY	REMAIN	–
PROPOSED	VF	EVESHAM	HYBRID ERS RACK	620x600x1750	EQUIPMENT ROOM	GREY	NEW	–

RF EQUIPMENT SCHEDULE									
EXISTING/ PROPOSED	OPERATOR	MANUFACTURER	MODEL	DIMENSIONS (WxDxH)	LOCATION	QUANTITY	COLOUR/ FINISH	STATUS	COMMENTS
EXISTING	VF	ERICSSON	RRUS 12 B1	–	HANDRAIL	3	GREY	REMOVE	L21
PROPOSED	VF	ERICSSON	BBU 6630	–	ERS RACK	3	GREY	NEW	3500
PROPOSED	VF	ERICSSON	BBU 6630	–	ERS RACK	1	GREY	NEW	800
PROPOSED	VF	ERICSSON	BBU 6630	–	ERS RACK	1	GREY	NEW	800/1400/1800/2100/2600
PROPOSED	VF	ERICSSON	BBU 6620	–	ERS RACK	1	GREY	NEW	900
PROPOSED	VF	ERICSSON	ERS 2212	127x298x351	ERS RAIL	3	GREY	NEW	GU09
PROPOSED	VF	ERICSSON	ERS 2217	127x298x351	ERS RAIL	3	GREY	NEW	L08
PROPOSED	VF	ERICSSON	4415 ERS	149x342x420	ERS RAIL	3/3	GREY	NEW	L21/L26
PROPOSED	VF	ERICSSON	ERS 2012	127x298x351	ERS RAIL	3	GREY	NEW	L14
PROPOSED	VF	KATHREIN	1800/2100 COMBINER	199x48x199	ANTENNA END	3	GREY	NEW	L18/L21
PROPOSED	VF	ROSENBERGER	GPS 0301	–	TX RACK	1	GREY	NEW	C/W SURGE & SPLITTER
PROPOSED	VF	ROSENBERGER	GPS MODULE	69Øx98	SECTOR 2 ANTENNA	1	GREY	NEW	CABLE LENGTH 65m/10m TO TRANSMITTER

AC POWER SUPPLY SCHEDULE								
EXISTING/ PROPOSED	OPERATOR	MANUFACTURER	MODEL	SUPPLY TYPE (DNO/LL)	PHASE (SINGLE/THREE)	SUPPLY RATING (AMPS)	EARTHING (TN–C–S/TT)	COMMENTS
EXISTING	VF	–	–	LL	THREE	–	–	WITHIN BASEMENT
EXISTING	VF	DORMAN SMITH	AC DB	–	–	–	–	EQUIPMENT ROOM

DC POWER SUPPLY UNIT SCHEDULE									
EXISTING/ PROPOSED	OPERATOR	MANUFACTURER	MODEL	LOCATION	AC SUPPLY TO PSU BREAKER SIZE (AMPS)	RECTIFIER SIZE (kW)	RECTIFIER QUANTITY	UPGRADE REQUIRED (Y/N)	COMMENTS
EXISTING	VF	DELTA	DPS2900–48–6 PSU	EQUIPMENT ROOM	–	2.9kW	3	TBC	–

TRANSMISSION SUPPLY SCHEDULE									
EXISTING/ PROPOSED (ENCLOSURE)	OPERATOR		TRANSMISSION ENCLOSURE	TRANSMISSION SOLUTION (MICROWAVE ONLY/FIBRE ONLY/ MICROWAVE+FIBRE (WITH PROVIDER NAME))	U SPACE AVAILABLE	CURRENT TRANSMISSION EQUIPMENT LOCATION	PROPOSED TRANSMISSION EQUIPMENT LOCATION	COMMENTS	
	HOST	SHARER							
EXISTING	VF	–	TX RACK	FIBRE ONLY (SUPPLIER TBC)	20U+	X	X	1No. CISCO ASR920 INSTALLED (5G)	

COOLING SCHEDULE										
EXISTING/ PROPOSED	OPERATOR	COOLING SYSTEM MANUFACTURER	COOLING SYSTEM MODEL	TYPE (FREE AIR/ PACKAGED/AC)	COOLING CALCULATOR VERSION	COOLING CAPACITY (kW)	SITE HEAT LOAD (kW)	UPGRADE REQUIRED (Y/N)	STATUS	COMMENTS
EXISTING	VF	TOSHIBA	RAV SM562KRT–Ex2	AC	V1.55	10kW	4.8kW	NO	–	–

1.ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE  
2. DRAWING TO SCALE WHEN PRINTED AT A3

N.G.R | E: 530025 N: 182180

CONCESSION REQUIRED | NO

DESIGN DEPENDENCIES | COMPLETED

STAT SEARCH RESULTS | NO | N/A

ASBESTOS REPORT | ✓ | ON SITE

RADAR SCAN REPORT | NO | N/A

COOLING CALCS | ✓ | 12.10.18

LL FIRE ALARM ASSESS | NO | N/A

GDC LEVEL | 1 | ✓ | 11.08.18

STRUCTURAL CALCS | ✓ | TBC

HD BOLT GRADE TEST | NO | N/A

FOUNDATION CALCS | NO | N/A

BOREHOLE REPORT | NO | N/A

STRUC/RIGGER SURVEY | NO | N/A

BOLT PULL TEST | NO | N/A

BUILDING REG’S APP. | NO | N/A

LL SUPPLY SURVEY | ✓ | TBC


DNO QUOTE APPROVAL | NO | N/A

C.P SURVEY | NO | N/A

REFER TO THE SITE SPECIFIC DRAWING SUBMISSION CHECKLIST (SDN0020) FOR A COMPREHENSIVE LIST AND INSTRUCTION ON WHERE TO FIND ALL ACCOMPANYING DESIGN DOCUMENTATION.				
C	Minor amendments	SPD	DS	09.11.18
B	Config Change	SPD	DS	08.11.18
A	Issued for Approval	SPD	DS	15.10.18
REV	MODIFICATION	BY	CH	DATE



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**CTIL**

Cell Name | Opt.

ROYAL NATIONAL HOTEL | –

Cell ID No

CTIL | TEF | VF

136476 | N/A | 00357

Site Address / Contact Details

ROYAL NATIONAL HOTEL  
50 WOBURN PLACE  
BLOOMSBURY  
LONDON  
WC1H ODG

Drawing Title:  
EQUIPMENT SCHEDULE

Purpose of issue:  
PLANNING | Dwg Rev:

Drawing Number:  
503 | C

Surveyed By:  
MS | Original Sheet Size:  
A3 | Pack Issue:

Drawn:  
SPD | Date:  
15.10.18 | Checked:  
DS | Date:  
15.10.18 | C