

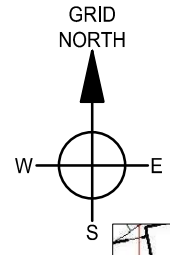
THESE DRAWINGS COMPLY WITH STANDARD ICNIRP DESIGN GUIDELINES.

GENERAL NOTES:

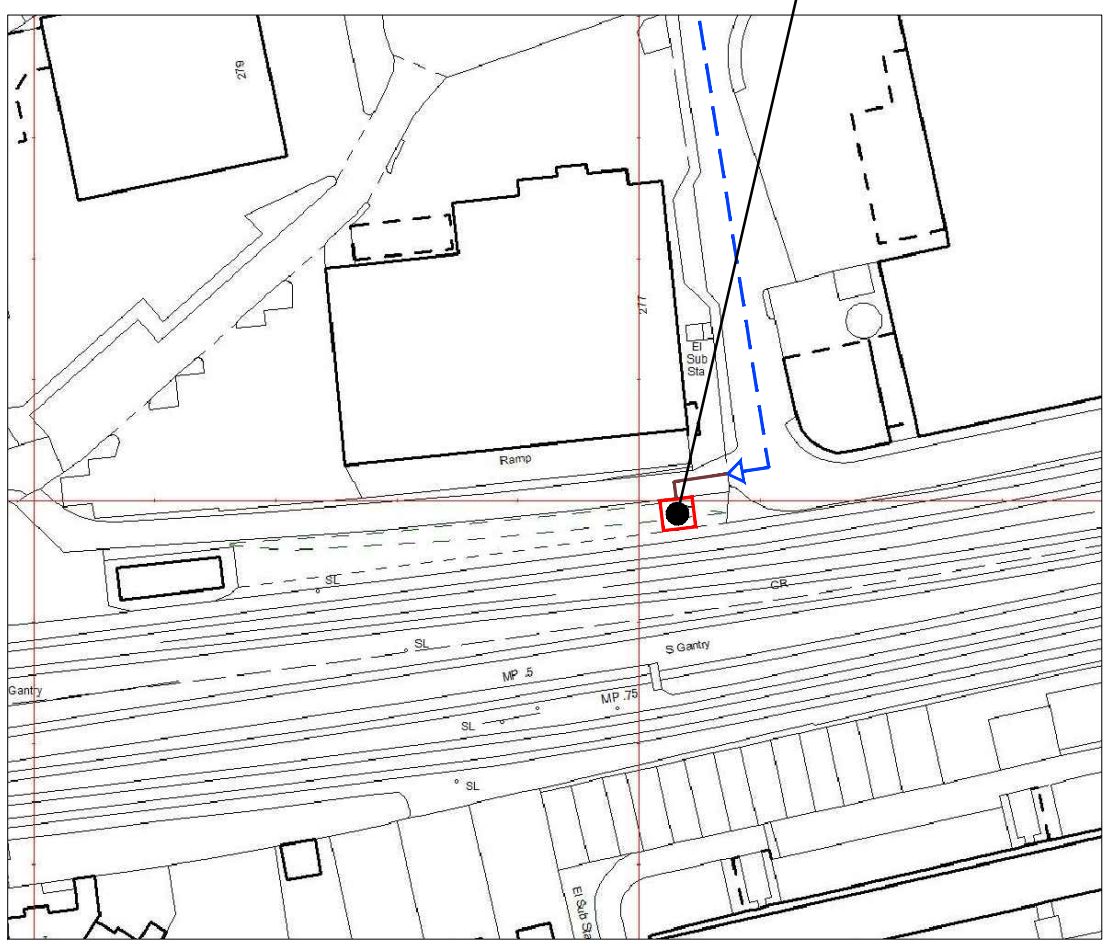
- 1.1) USE WRITTEN DIMENSIONS ONLY
- 1.2) ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED
- 1.3) ASSUME ALL SITE DETAILS ARE EXISTING UNLESS SPECIFIED

DEPENDENCIES

CHERRY PICKER SURVEY	NO
STAT SEARCH	YES
TRIAL DIG	NO
GEOTECH	YES
GDC	NO
BOLT PULL-OUT TEST	NO
STRUCTURAL CALCULATIONS	NO
BUILDING REGULATIONS	NO
ELECTRICAL LOAD TEST	NO
REC SERVICE ALTERATION	NO
COMMS SERVICE ALTERATION	NO
ASBESTOS SURVEY	NO
ANTENNA TESTING	NO
COOLING CALCULATIONS	NO



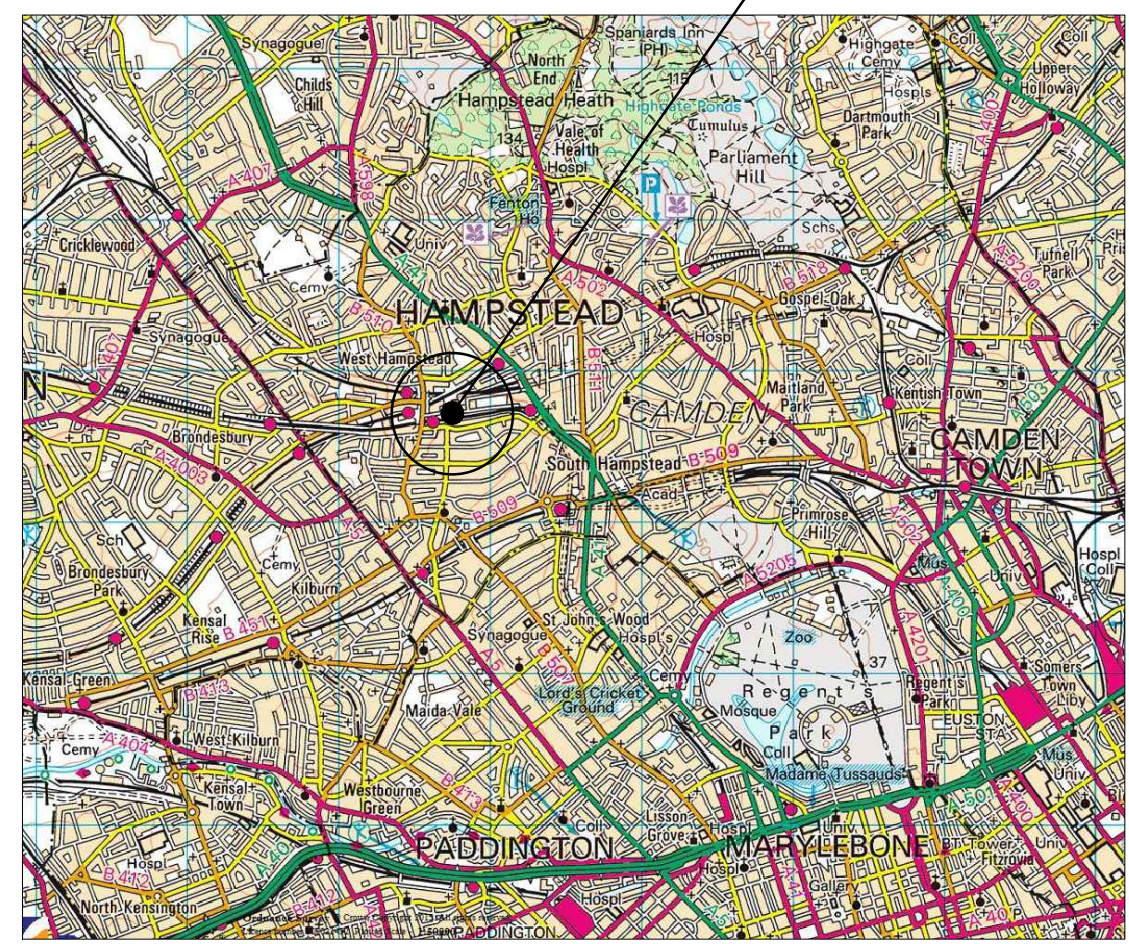
SITE LOCATION



SITE LOCATION (SCALE 1:1250)



SITE LOCATION



SITE LOCATION (SCALE 1:50000)

E	SITE LOCATION REVISED	27.03.17	NP	GD
D	ADDITIONAL ELEVATIONS ADDED	06.02.17	NP	GD
C	TOWER HEIGHT REVISED	06.12.16	NP	GD
B	ELEVATION VIEW AMENDED	23.11.16	NP	GD
A	FIRST ISSUE	03.11.16	NP	GD
REV	ISSUE	DATE	DRN	APP

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NET COVERAGE SOLUTIONS
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 CAMBERLEY
 SURREY GU15 3BS

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OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: SITE LOCATION MAPS

SCALE: AS SHOWN

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
 BLACKBURN ROAD
 WEST HAMPSTEAD
 LONDON NW6 2LS

OS GRID REFERENCE:
 525798/184699

DRAWN: NP CHK: GD APP: GD

DATE: 03.11.16

SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	100	- E

ORIGINAL DRAWING SIZE: A3



LOCATION PHOTOGRAPH

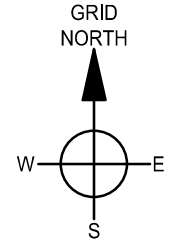
DIRECTIONS TO SITE:
HEADING SOUTH-EAST ON M1
 TOWARDS EXIT 2, TAKE THE NORTH CIRCULAR/A406 (E) EXIT TOWARDS CENTRAL/WEST HAMPSTEAD/BRENT CROSS AND CONTINUE FOR 0.2 MILES. TAKE THE A406 (E) RAMP ON THE RIGHT TO WOOD GREEN/GOLDERS GREEN/N.CIRCULAR/C.WEST HAMPSTEAD AND CONTINUE FOR 0.2 MILES. MERGE ONTO N CIRCULAR ROAD/A406 AND CONTINUE FOR 0.1 MILES. TAKE THE A41 RAMP TO AYLESBURY/CENTRE WEST HAMPSTEAD W AND CONTINUE FOR 0.1 MILES. AT THE ROUNDABOUT, TAKE THE 3rd EXIT TOWARDS C.WEST HAMPSTEAD/KILBURN/CRICKLEWOOD AND CONTINUE FOR 0.3 MILES. TAKE THE RAMP ONTO BRENT CROSS FLYOVER/A41, CONTINUE TO FOLLOW A41 FOR 2.5 MILES THEN TURN RIGHT ONTO BLACKBURN RD FOLLOW ROAD TO SERVICE ROAD. THEN FOLLOW ROUND TO SITE

ALL MAPS OBTAINED VIA PROMAP.
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THESE DRAWINGS COMPLY WITH STANDARD ICNIRP DESIGN GUIDELINES.

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EXISTING SITE LAYOUT PLAN (SCALE 1:500)



REV	ISSUE	DATE	DRN	APP
E	SITE LOCATION REVISED	27.03.17	NP	GD
D	ADDITIONAL ELEVATIONS ADDED	06.02.17	NP	GD
C	TOWER HEIGHT REVISED	06.12.16	NP	GD
B	ELEVATION VIEW AMENDED	23.11.16	NP	GD
A	FIRST ISSUE	03.11.16	NP	GD

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OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: SITE LAYOUT PLAN EXISTING

SCALE: 1:500

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
 BLACKBURN ROAD
 WEST HAMPSTEAD
 LONDON NW6 2LS

OS GRID REFERENCE:
 525798/184699

DRAWN: NP CHK: GD APP: GD

DATE: 03.11.16

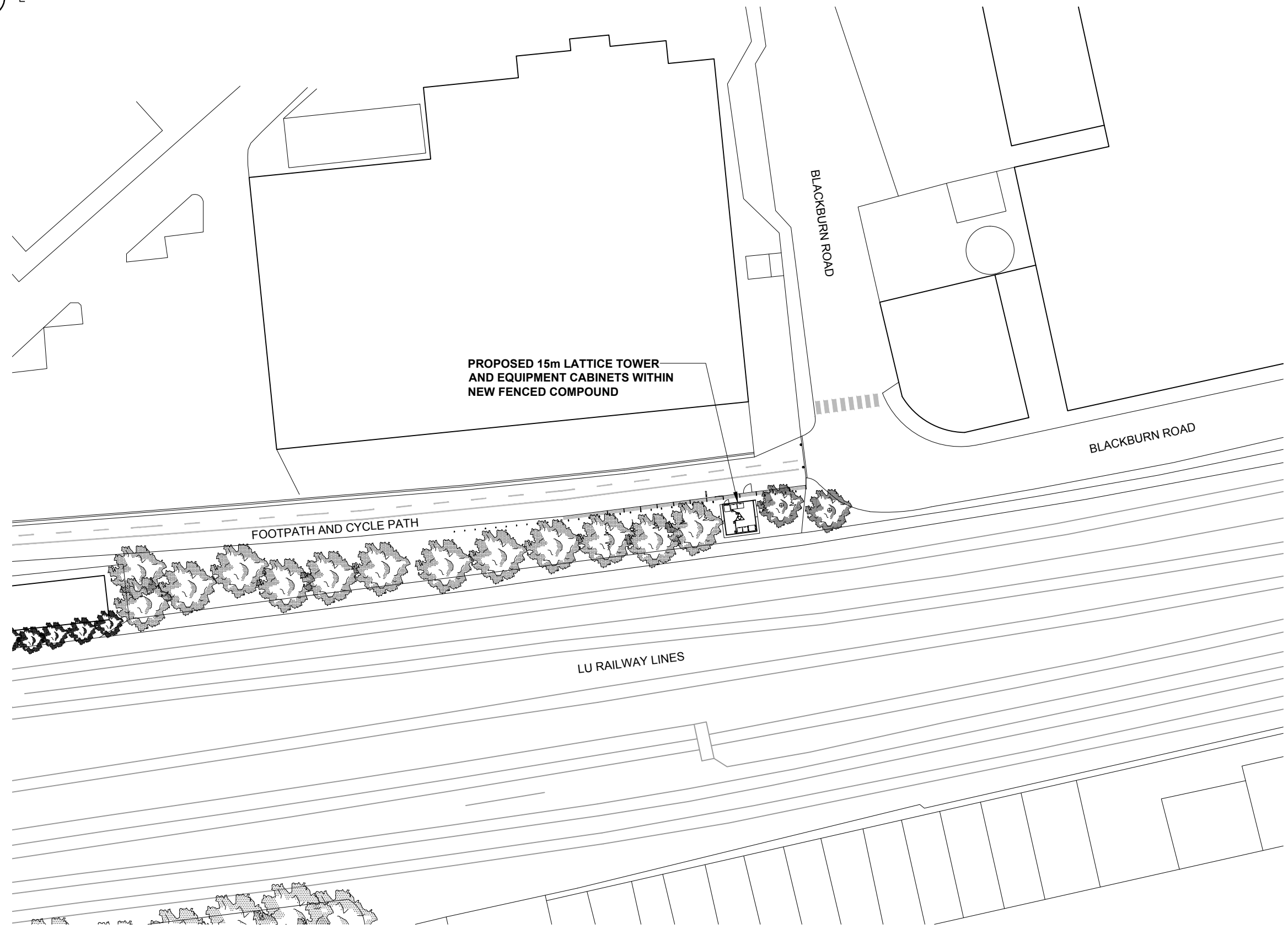
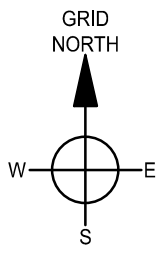
SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	201	- E

ORIGINAL DRAWING SIZE: A3

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OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: SITE LAYOUT PLAN PROPOSED

SCALE: 1:500

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
 BLACKBURN ROAD
 WEST HAMPSTEAD
 LONDON NW6 2LS

OS GRID REFERENCE:
 525798/184699

DRAWN: NP CHK: GD APP: GD

DATE: 03.11.16

SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	202	- E

PROPOSED SITE LAYOUT PLAN (SCALE 1:500)

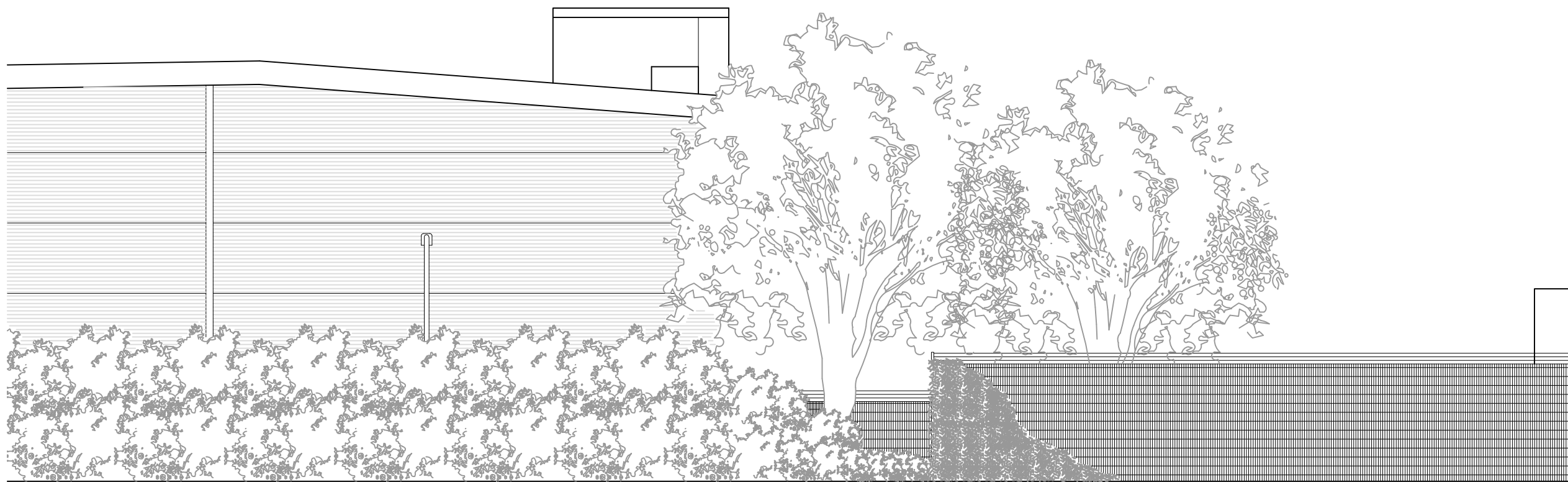


ORIGINAL DRAWING SIZE: A3

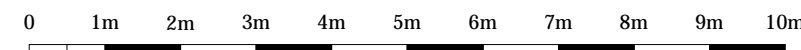
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EXISTING SOUTH-EAST ELEVATION (SCALE 1:100)



SCALE 1:100

REV	ISSUE	DATE	DRN	APP
E	SITE LOCATION REVISED	27.03.17	NP	GD
D	ADDITIONAL ELEVATIONS ADDED	06.02.17	NP	GD
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OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: SOUTH-EAST ELEVATION EXISTING

SCALE: 1:100

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
 BLACKBURN ROAD
 WEST HAMPSTEAD
 LONDON NW6 2LS

OS GRID REFERENCE:
 525798/184699

DRAWN: NP CHK: GD APP: GD

DATE: 03.11.16

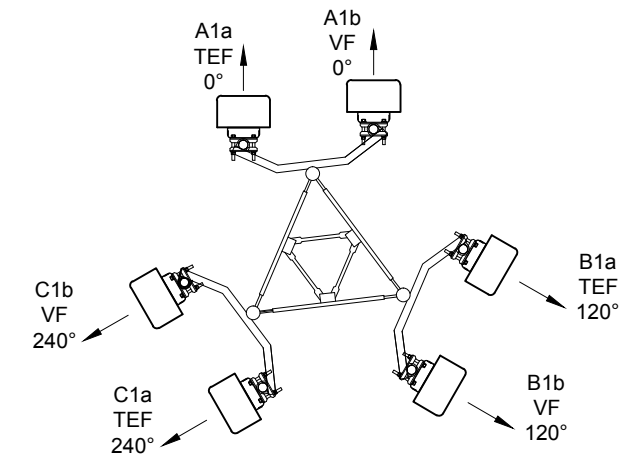
SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	301	- E

ORIGINAL DRAWING SIZE: A3

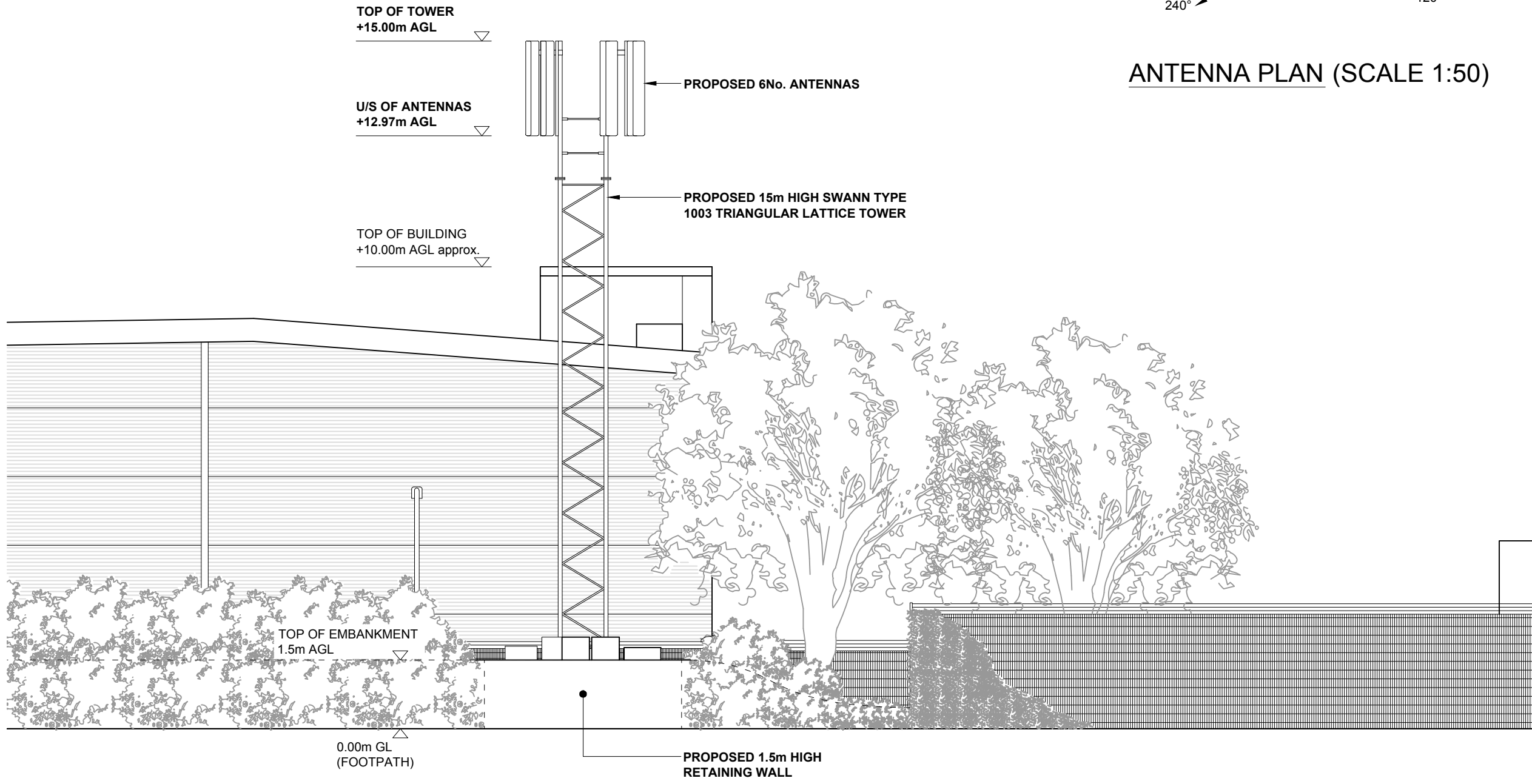
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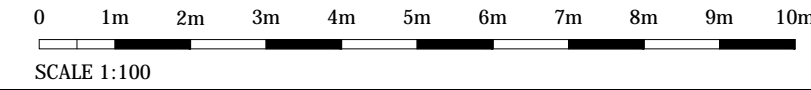
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ANTENNA PLAN (SCALE 1:50)



PROPOSED SOUTH-EAST ELEVATION (SCALE 1:100)



REV	ISSUE	DATE	DRN	APP
E	SITE LOCATION REVISED	27.03.17	NP	GD
D	ADDITIONAL ELEVATIONS ADDED	06.02.17	NP	GD
C	TOWER HEIGHT REVISED	06.12.16	NP	GD
B	ELEVATION VIEW AMENDED	23.11.16	NP	GD
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OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: SOUTH-EAST ELEVATION AND ANTENNA PLAN PROPOSED

SCALE: AS SHOWN

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
 BLACKBURN ROAD
 WEST HAMPSTEAD
 LONDON NW6 2LS

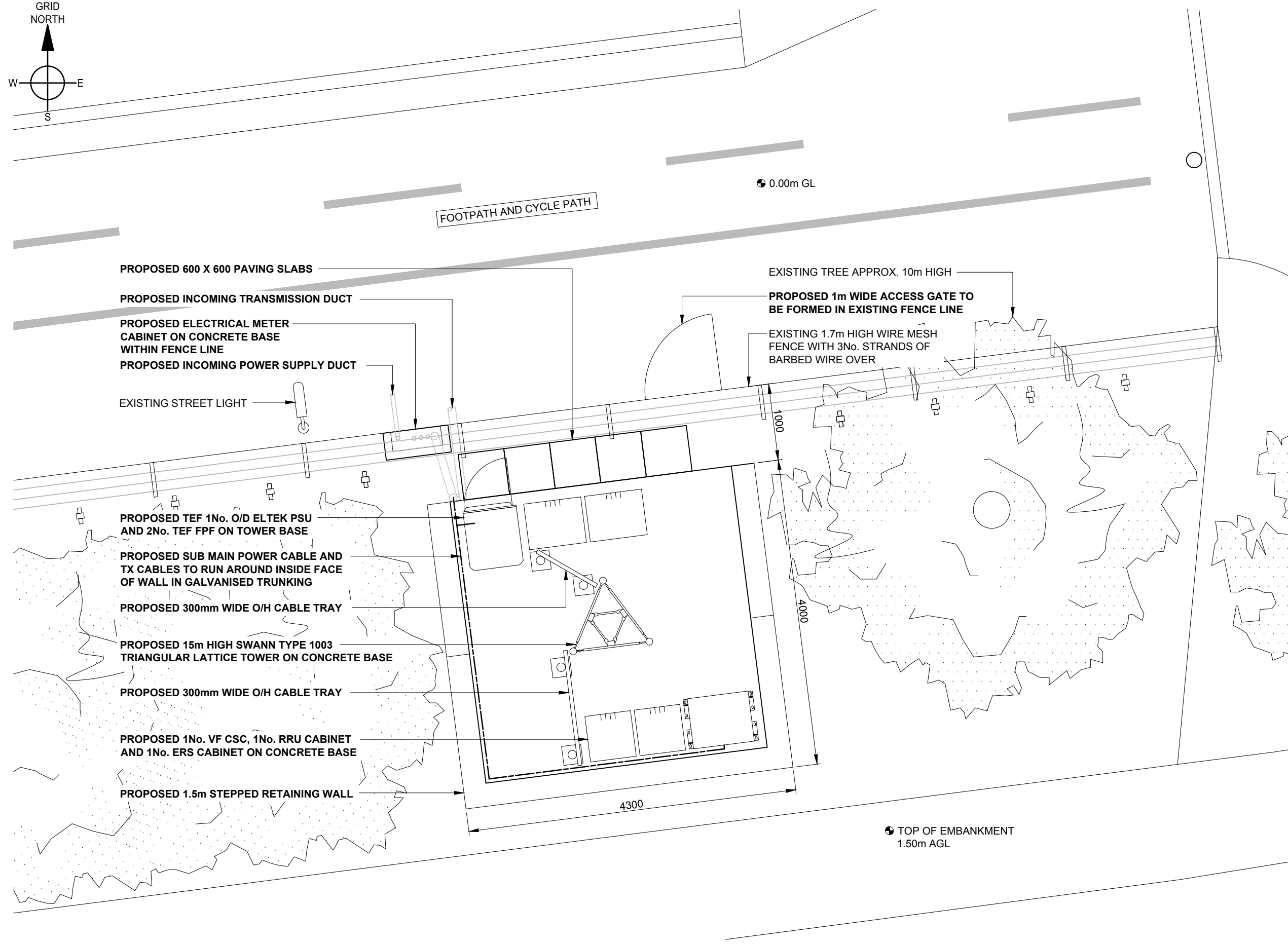
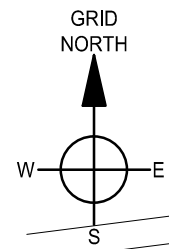
OS GRID REFERENCE:
 525798/184699

DRAWN: NP CHK: GD APP: GD

DATE: 03.11.16

SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	302	- E

ORIGINAL DRAWING SIZE: A3



GENERAL NOTES:
 1.1) USE WRITTEN DIMENSIONS ONLY
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E	SITE LOCATION REVISED	27.03.17	NP	GD
D	ADDITIONAL ELEVATIONS ADDED	06.02.17	NP	GD
C	TOWER HEIGHT REVISED	06.12.16	NP	GD
B	ELEVATION VIEW AMENDED	23.11.16	NP	GD
A	FIRST ISSUE	03.11.16	NP	GD
REV	ISSUE	DATE	DRN	APP

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OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: ENLARGED EQUIPMENT AND ANTENNA PLAN PROPOSED

SCALE: 1:50

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
 BLACKBURN ROAD
 WEST HAMPSTEAD
 LONDON NW6 2LS

OS GRID REFERENCE:
 525798/184699

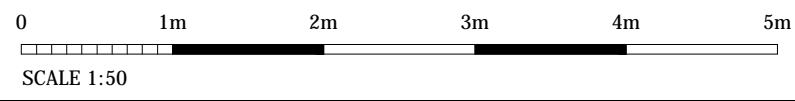
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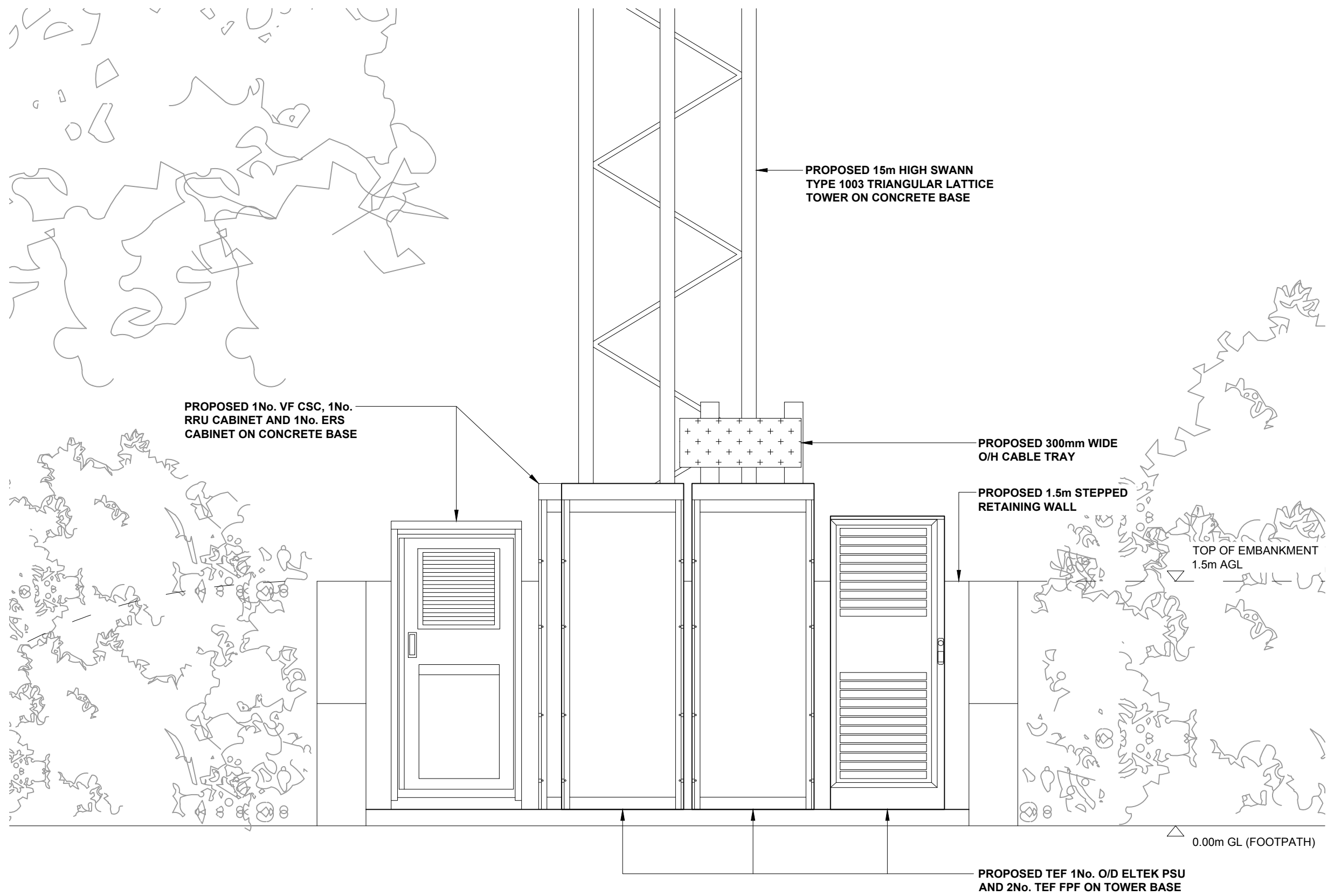
DATE: 03.11.16

SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	401	- E

ORIGINAL DRAWING SIZE: A3

ENLARGED EQUIPMENT (SCALE 1:50)





ENLARGED EQUIPMENT ELEVATION (SCALE 1:25)

GENERAL NOTES:

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E	SITE LOCATION REVISED	27.03.17	NP	GD
D	NOT ISSUED			
C	NOT ISSUED			
B	NOT ISSUED			
A	NOT ISSUED			
REV	ISSUE	DATE	DRN	APP

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OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: ENLARGED EQUIPMENT ELEVATION PROPOSED

SCALE: 1:25

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
 BLACKBURN ROAD
 WEST HAMPSTEAD
 LONDON NW6 2LS

OS GRID REFERENCE:
 525798/184699

DRAWN: NP CHK: GD APP: GD

DATE: 03.11.16

SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	402	- E

ORIGINAL DRAWING SIZE: A3

CONFIGURATION: TEF NSN - 3 SECTORS, 1 ANTENNAS. VF E// - 3 SECTORS, 1 ANTENNAS RF CONFIG: LGD-N-M-E1d-F VOD CODE: MX4 OUTDOOR OPTION 1 - E_XRS_330_264

EXISTING & PROPOSED ANTENNA SCHEDULE (EXISTING EQUIPMENT SHOWN GREY)

PROPOSED & EXISTING ANTENNAS	OPERATOR	FUNCTION	FEEDER/DC/FIBRE								MHA's/RRU's/BIAS T's/JUMPERS/COMBINERS										ANTENNAS								
			LENGTH & DIAMETER (SEE GUIDANCE NOTES BELOW)				TYPE (COAX OR DC/FIBRE)	FEEDERS QTY		DC/FIBRE QTY	DC/FIBRE LENGTH	MHA NSN QTY	MHA E'SSON QTY	RRU QTY	ERS 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 (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		EXTNG	PROP																				
SECTOR 1 PROPOSED ANTENNA	TEF	1L08																											
	TEF	1U09	20m (5/8")	1m (1/2")	-	21m	COAX	-	4	-	-	M1	-	-	-	1	-	2m	C1	C3	A1a	COMMSCOPE CVV2NPX308.208R	0	15.00	12.93	13.96	POLE MOUNT	NEW	-
	TEF	1L18																											
	TEF	1U21	20m (5/8")	1m (1/2")	-	21m	COAX	-	2	-	-	M1	-	-	-	-	-	2m	-	-	-	-	-	-	-	-	-	-	-
	VF	1GU09	20m (5/8")	1m (1/2")	-	21m	COAX	-	2	1	5m	-	-	-	-	-	-	25m	-	-	-	A1b	COMMSCOPE RVVPX308.14R3	0	15.00	12.93	13.96	POLE MOUNT	NEW
SECTOR 2 PROPOSED ANTENNA	VF	1U21	20m (5/8")	1m (1/2")	-	21m	COAX	-	2	1	5m	-	-	-	-	-	25m	-	-	-	-	-	-	-	-	-	-	-	-
	TEF	2L08																											
	TEF	2U09	20m (5/8")	1m (1/2")	-	21m	COAX	-	4	-	-	M1	-	-	-	1	-	2m	C1	C3	B1a	COMMSCOPE CVV2NPX308.208R	120	15.00	12.93	13.96	POLE MOUNT	NEW	-
	TEF	2L18																											
	TEF	2U21	20m (5/8")	1m (1/2")	-	21m	COAX	-	2	-	-	M1	-	-	-	-	-	2m	-	-	-	-	-	-	-	-	-	-	-
SECTOR 3 PROPOSED ANTENNA	VF	2GU09	20m (5/8")	1m (1/2")	-	21m	COAX	-	2	1	5m	-	-	-	-	-	25m	-	-	-	B1b	COMMSCOPE RVVPX308.14R3	120	15.00	12.93	13.96	POLE MOUNT	NEW	-
	VF	2U21	20m (5/8")	1m (1/2")	-	21m	COAX	-	2	1	5m	-	-	-	-	-	25m	-	-	-	-	-	-	-	-	-	-	-	-
	TEF	3L08																											
	TEF	3U09	20m (5/8")	1m (1/2")	-	21m	COAX	-	4	-	-	M1	-	-	-	1	-	2m	C1	C3	C1a	COMMSCOPE CVV2NPX308.208R	240	15.00	12.93	13.96	POLE MOUNT	NEW	-
	TEF	3L18																											
VF	3GU09	20m (5/8")	1m (1/2")	-	21m	COAX	-	2	1	5m	-	-	-	-	-	-	25m	-	-	-	C1b	COMMSCOPE RVVPX308.14R3	240	15.00	12.93	13.96	POLE MOUNT	NEW	-
	3U21	20m (5/8")	1m (1/2")	-	21m	COAX	-	2	1	5m	-	-	-	-	-	-	25m	-	-	-	-	-	-	-	-	-	-	-	

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OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: ANTENNA AND EQUIPMENT SCHEDULE PROPOSED

SCALE: N/A

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
 BLACKBURN ROAD
 WEST HAMPSTEAD
 LONDON NW6 2LS

OS GRID REFERENCE:
 525798/184699

DRAWN: NP CHK: GD APP: GD

DATE: 03.11.16

SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	501	- E

ORIGINAL DRAWING SIZE: A3

EQUIPMENT SCHEDULE

STATUS	OPERATOR	MANUFACTURER	TYPE	SIZE	COLOUR	COMMENTS
PROPOSED	TEF	NSN	FLATPACK FRAME	750x600x2000	GREY	(2No. UNITS) TO HOUSE TEF FLEXI MODULES
PROPOSED	TEF	ELTEK	OD PSU 4th GEN	700x830x1800	GREY	PROVIDE DC POWER TEF FLEXI MODULES AND HOUSE TRANSMISSION
PROPOSED	VF	TFL	CSC	800x770x1770	GREY	TO PROVIDE DC POWER TO VF RRU'S/ERS'S
PROPOSED	VF	TFL	RRU CABINET	600x600x2000	GREY	TO HOUSE VF RRU'S
PROPOSED	VF	TFL	ERS CABINET	600x600x2000	GREY	TO HOUSE VF ERS'S

SUPPORT STRUCTURE KEY

STATUS	HEIGHT	MANUFACTURER	TYPE	COLOUR/FINISH	COMMENTS
PROPOSED	15m	SWANN	1003 TRIANGULAR LATTICE TOWER	STANDARD	-

POWER SUPPLY SOURCE

STATUS	OPERATOR	MANUFACTURER	TYPE	SIZE	COLOUR	COMMENTS
PROPOSED	TEF	TFL	METER CABINET	655x255x1015	GREY	SINGLE PHASE REC SUPPLY

TRANSMISSION ENCLOSURE

STATUS	ENCLOSURE	TRANSMISSION SOLUTION MICROWAVE ONLY/FIBRE ONLY (WITH PROVIDER NAME)/ MICROWAVE + FIBRE (WITH PROVIDER NAME)	U SPACE AVAILABLE	CURRENT TRANSMISSION KIT LOCATION	PROPOSED TRANSMISSION KIT LOCATION	COMMENTS	TRANSMISSION INTER-CABINET CABLING			
							CABLE TYPE	CABLE LENGTH	RADIO CONNECTION	TRANSMISSION CONNECTION
PROPOSED	ELTEK	FIBRE (BT)	6	-	X	-	16 CORE COAX	6m	SMB SOCKET	BNC PLUG

ANTENNA REFERENCE KEY

FUNCTION KEY

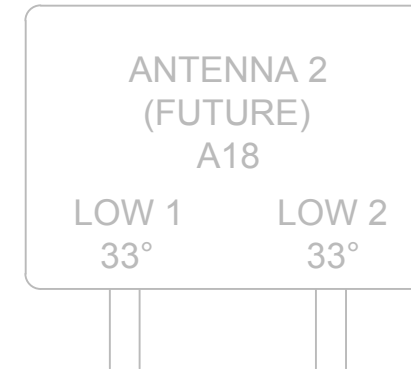
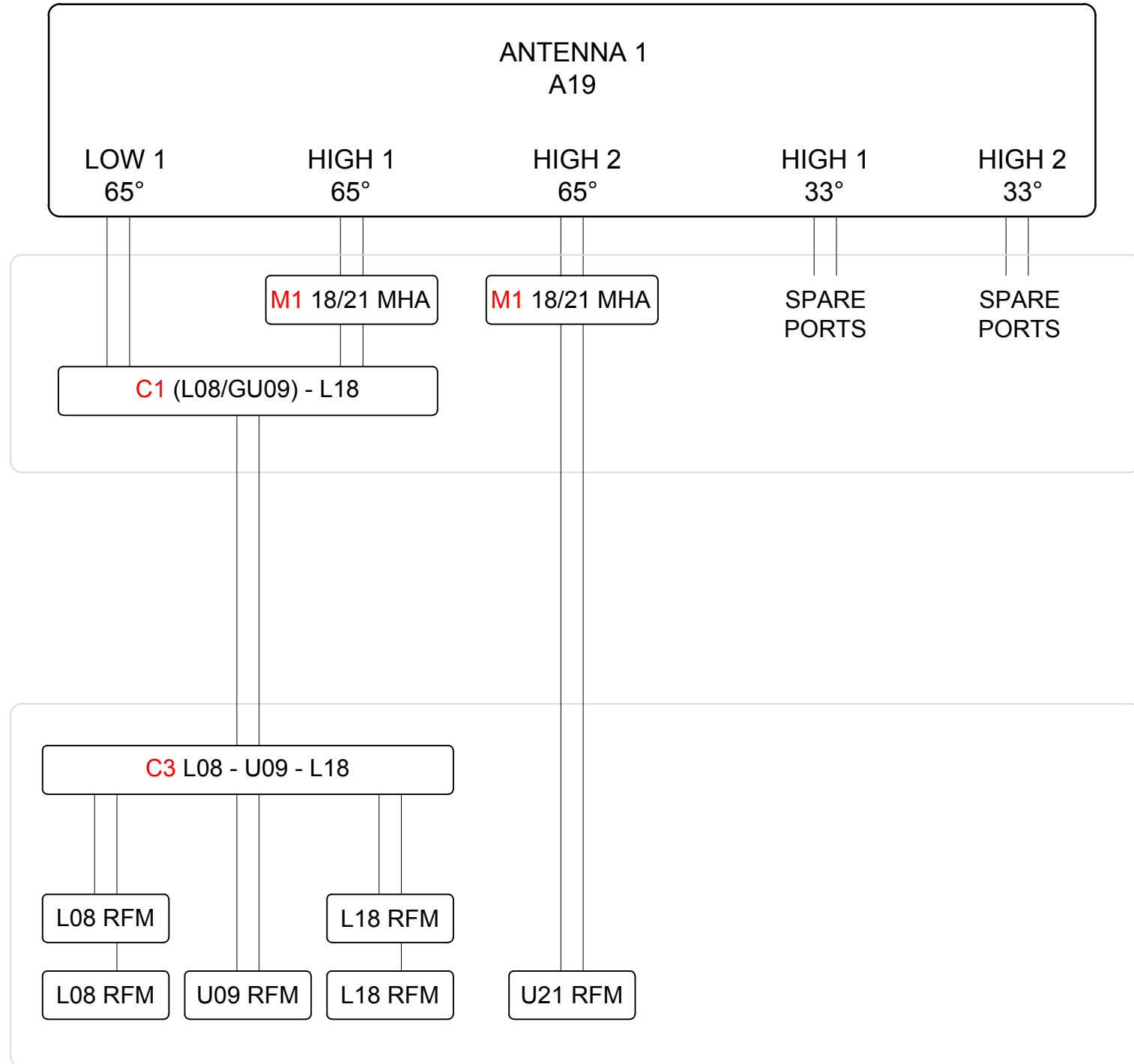
STATUS KEY

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 1/2 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)	EXISTING =	ON SITE AND NOT BEING MOVED	TEF =	TELEFONICA	
b=	UNIQUE BAND REFERENCE	21=	2100 BAND (09=0900,18=1800)	RE-USE =	ON SITE BUT BEING MOVED			

LGD-N-M-E1d-F



NOTE: TYPE 5 COMBINER MAY BE REQUIRED IF EXISTING G900 ULTRASITE EQUIPMENT IS DEPLOYED

TEF ANTENNA SCHEMATICS (N.T.S)

GENERAL NOTES:

- 1.1) USE WRITTEN DIMENSIONS ONLY
- 1.2) ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED
- 1.3) ASSUME ALL SITE DETAILS ARE EXISTING UNLESS SPECIFIED

REV	ISSUE	DATE	DRN	APP
E	SITE LOCATION REVISED	27.03.17	NP	GD
D	ADDITIONAL ELEVATIONS ADDED	06.02.17	NP	GD
C	TOWER HEIGHT REVISED	06.12.16	NP	GD
B	ELEVATION VIEW AMENDED	23.11.16	NP	GD
A	FIRST ISSUE	03.11.16	NP	GD

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CTIL

OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: TEF ANTENNA SCHEMATICS PROPOSED

SCALE: N/A

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
BLACKBURN ROAD
WEST HAMPSTEAD
LONDON NW6 2LS

OS GRID REFERENCE:
525798/184699

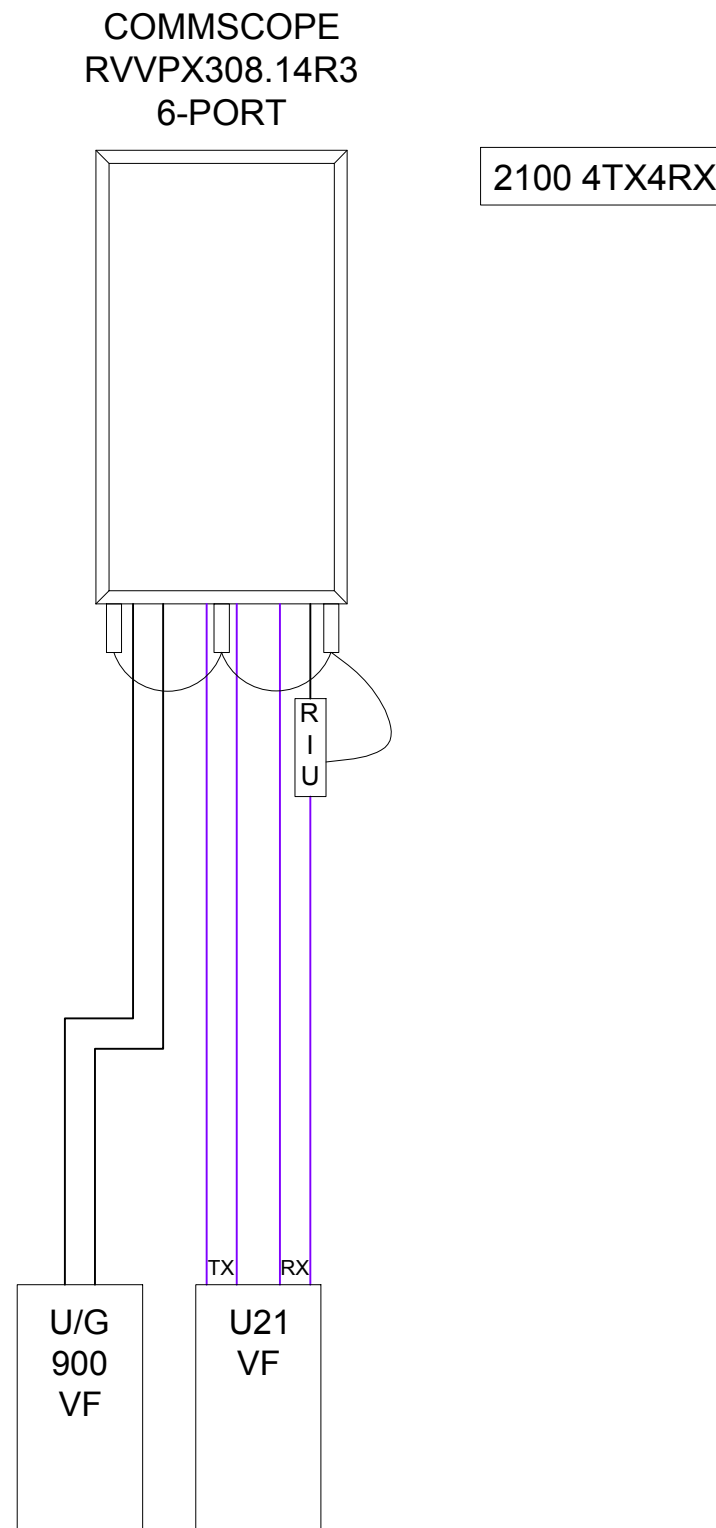
DRAWN: NP CHK: GD APP: GD

DATE: 03.11.16

SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	502	- E

ORIGINAL DRAWING SIZE: A3

MX4 - OPTION 1 - E_XRS_330_264



VF ANTENNA SCHEMATICS (N.T.S)

GENERAL NOTES:

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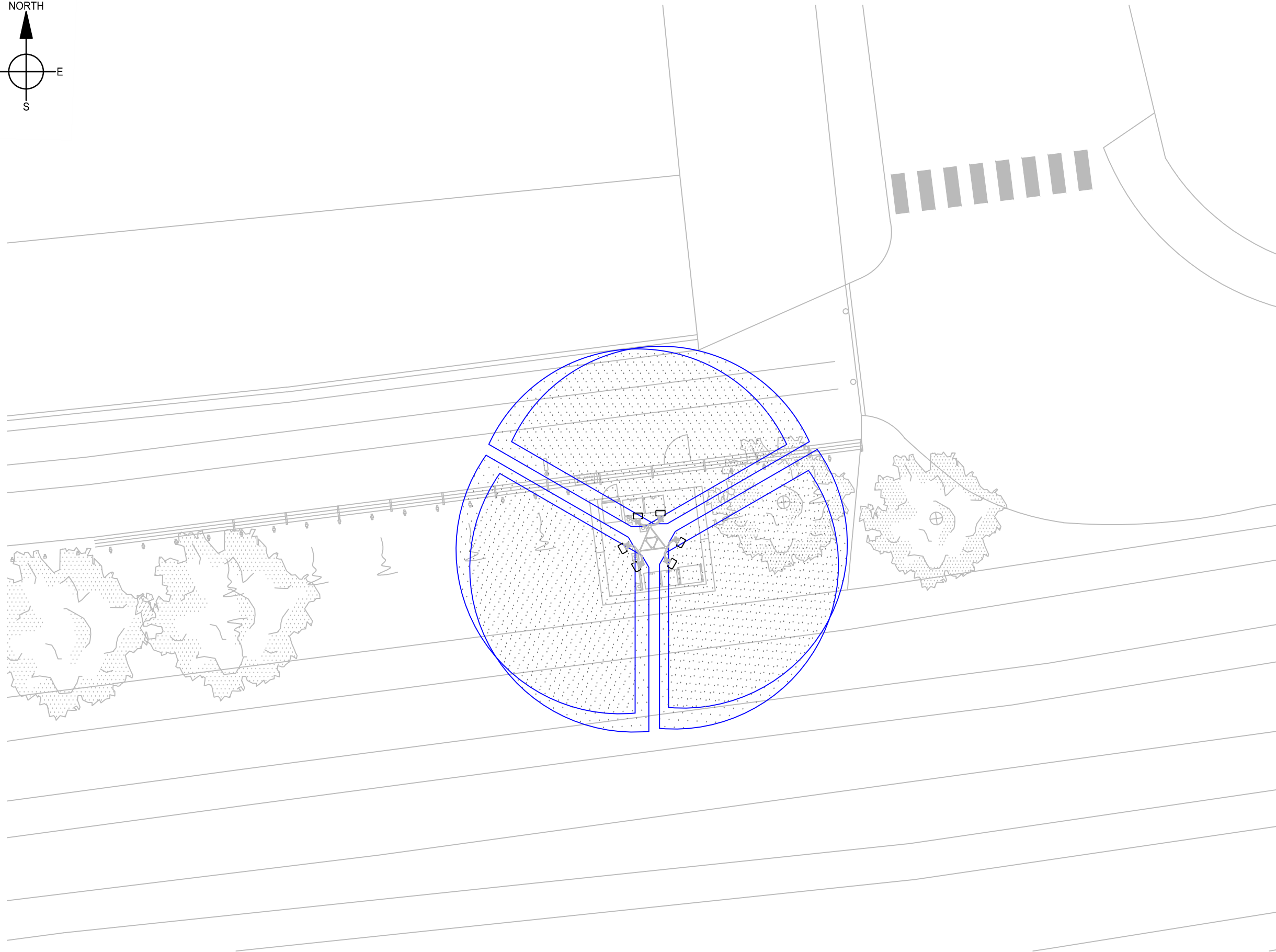
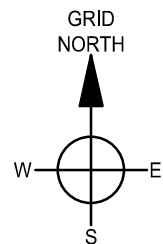
OS GRID REFERENCE:
525798/184699

DRAWN: NP CHK: GD APP: GD

DATE: 03.11.16

SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	502	- E

ORIGINAL DRAWING SIZE: A3



PROPOSED ICNIRP PLAN (SCALE 1:150)

GENERAL NOTES:

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A	FIRST ISSUE	03.11.16	NP	GD
REV	ISSUE	DATE	DRN	APP

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CTIL

OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: ICNIRP PLAN
 PROPOSED

SCALE: 1:150

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
 BLACKBURN ROAD
 WEST HAMPSTEAD
 LONDON NW6 2LS

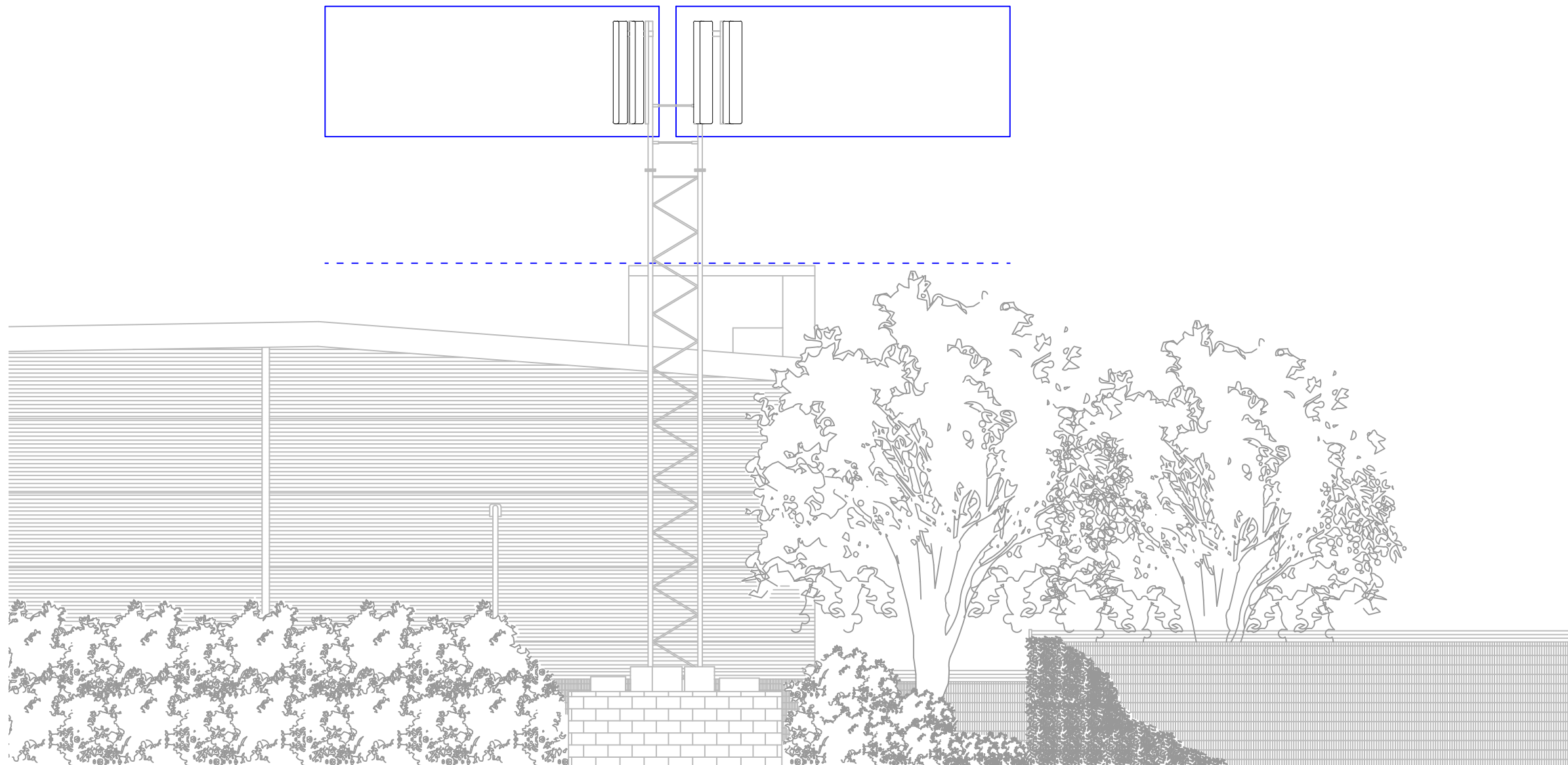
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 525798/184699

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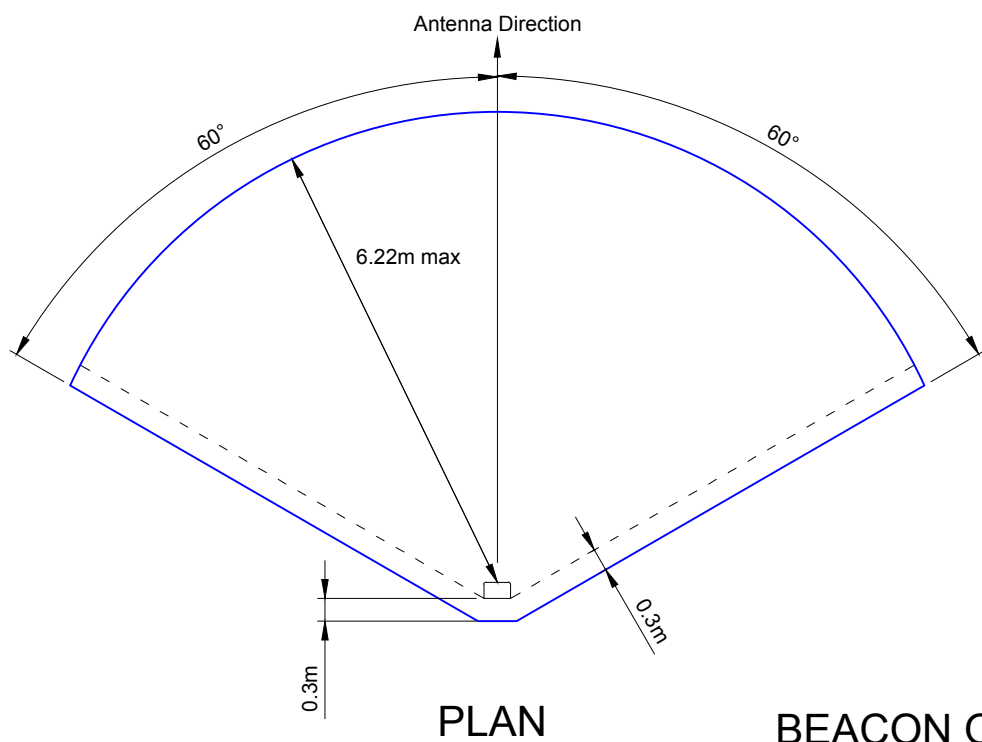
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SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	801	- E

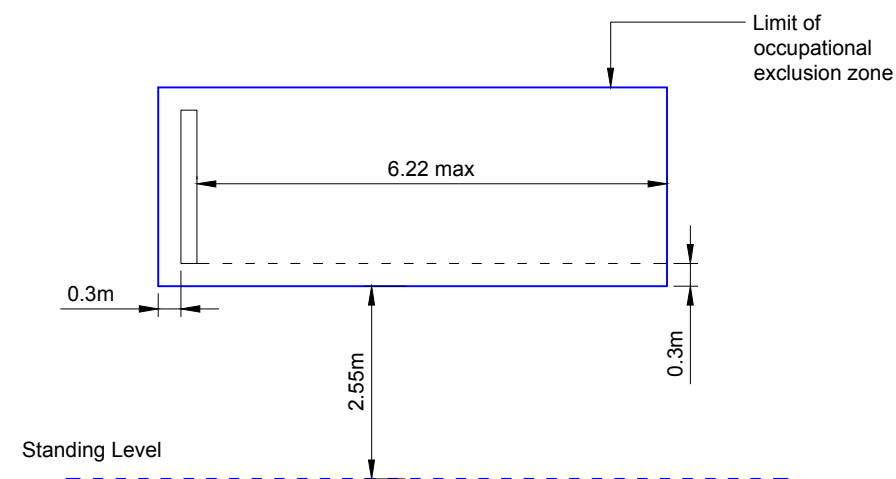
ORIGINAL DRAWING SIZE: A3



PROPOSED ICNIRP ELEVATION (SCALE 1:100)



PLAN



ELEVATION

BEACON OCCUPATIONAL EXCLUSION ZONE WEST HAMPSTEAD (NTS)

GENERAL NOTES:

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REV	ISSUE	DATE	DRN	APP
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CTIL

OPERATOR REF NO. CTILid:150140 TEF:71883 VF:87676

OPERATOR: CTIL

DRAWING TITLE: ICNIRP ELEVATION AND DETAILS PROPOSED

SCALE: AS SHOWN

SITE NO. 71883

SITE NAME: BLACKBURN ROAD

SITE ADDRESS: WEST HAMPSTEAD STATION
 BLACKBURN ROAD
 WEST HAMPSTEAD
 LONDON NW6 2LS

OS GRID REFERENCE:
 525798/184699

DRAWN: NP CHK: GD APP: GD

DATE: 03.11.16

SITE NO.	OPERATOR	DRG NO.	REVISION
71883	- CTIL -	802	- E

ORIGINAL DRAWING SIZE: A3