DRAWING NAME	DRAWING No.	06.04.18						
		Issue	Revision	Revision	Revision	Revision	Revision	Revision
LOCATION PLAN	NHE057 01	A1						
SITE PLAN	NHE057 02	A1						
NORTH WEST ELEVATION	NHE057 03	A1						
EQUIPMENT DETAILS	NHE057 04	A1						
EQUIPMENT LAYOUT	NHE057 05	A1						
ANTENNA LAYOUT	NHE057 06	A1						
ANTENNA LINE KEY	NHE057 07	A1						
ANTENNA SCHEMATIC	NHE057 08	A1						
ICNIRP EXCLUSION ZONES	NHE057 09	A1						
CONSTRUCTION NOTES	NHE057 10	A1						
CABLE MANAGEMENT DETAILS	NHE057 11	A1						
TYPICAL DUCT LAYOUT	NHE057 12	A1						

COMPANY	NAME	Issued						
HUAWEI	HUAWEI	✓						
ADC BUILD	ADC BUILD	✓						

MBNL

HUAWEI

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Site Name & Address:

ASCOT INDUSTRIAL ESTATE
ICKNIELD WAY
LETCHWORTH GARDEN CITY
HERTFORDSHIRE
SG6 1TD

Cell No: 16822

Site No: 1205780

MBNL No: NHE057

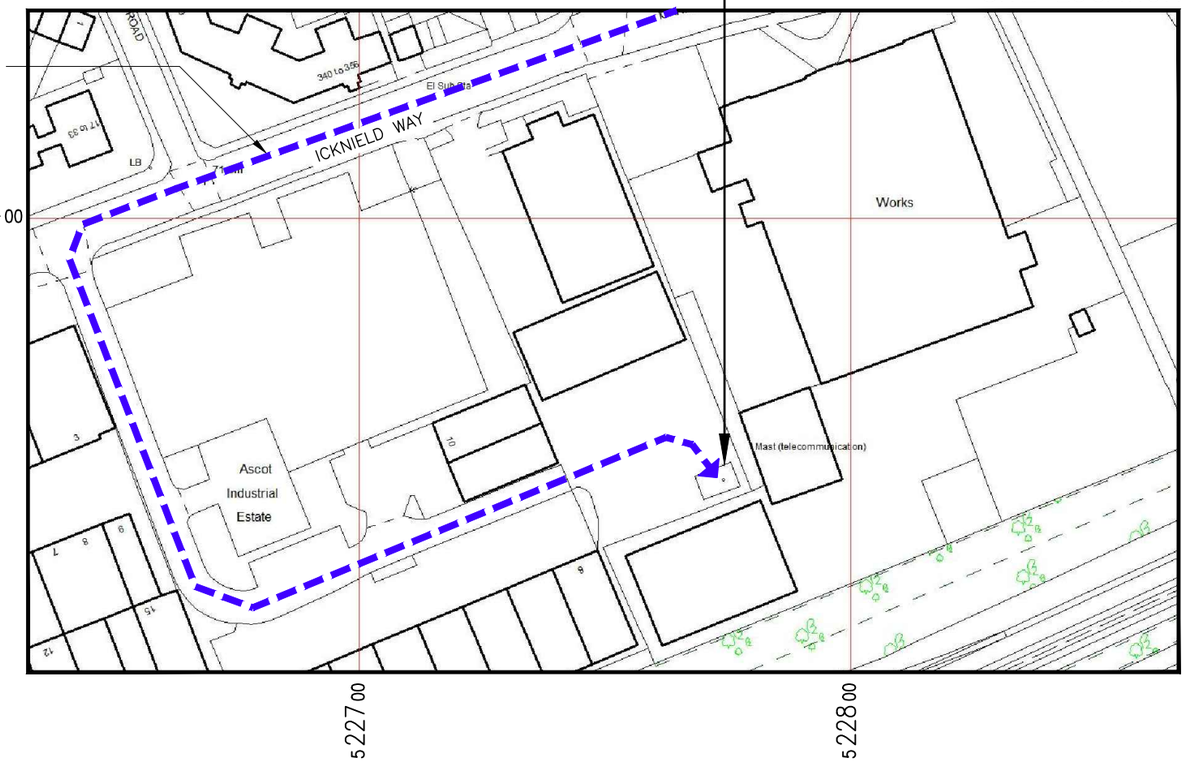
100mm
75mm
50mm
25mm
0mm

A3



SITE LOCATION

SITE ACCESS ROUTE



DETAILED SITE LOCATION

(Scale 1:1250)

N.G.R. E: 522770, N: 233350

Based upon Ordnance Survey map extract
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1 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE
2 DO NOT SCALE DRAWINGS
3 RED BOXED TEXT INDICATES PROPOSED WORKS
4 BLUE BOXED TEXT INDICATES PROPOSED H3G WORKS BY OTHERS
5 READ IN CONJUNCTION WITH CONSTRUCTION NOTES DRAWING

No.	Revision	By	Ckd	Date
A1	Preliminary Issue For Comment	NTA	JS	06.04.18

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Site Name & Address:

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ICKNIELD WAY
LETCHWORTH GARDEN CITY
HERTFORDSHIRE
SG6 1TD

Drawing Title: LOCATION PLAN

Purpose of Issue: PLANNING

Drawing No: NHE057 01

TM Cell ID:	TM Site ID:	MBNL Cell ID:
16822	1205780	NHE057

Scale:	Drawn:	Date:	Issue:
As Shown	NTA	06.04.18	A1

Checked:	Date:	Approved:	Date:
JS	06.04.18	SDG	06.04.18

A3

NOTE:
FAULT RAISED: RECTIFIER WARNING LIGHT IS ON IN EMERSON PSU CABINET.
FAULT NUMBER TBC

NOTE:
EXISTING EE1800 POWERWAVE MHAs TO BE REMOVED & REPLACED WITH NEW 1800 COMMSCOPE MHAs FOR RET CONTROL

NOTE:
FAULT RAISED. EXISTING TREE BRANCHES ENCROACHING ONTO TOWER ACCESS LADDER TO TO BE CUT BACK.

NOTE:
EXISTING EE1800 MHA TAILS TO BE REMOVED & REPLACED WITH NEW MHA TAILS C/W 43–10 CONNECTORS

NOTES:
FOR FULL EQUIPMENT DETAILS THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING 04 (EQUIPMENT DETAILS)

ALL PROPOSED EQUIPMENT AND STEELWORK TO BE BONDED TO EXISTING LIGHTNING PROTECTION SYSTEM

RF: OPTION – 9 CROSS POLARISED
BoB SCENARIO: 4b

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DEPENDENCIES:	
ASBESTOS	N/A
BUILDING REGULATIONS	N/A
FIXIT FORM	N/A
GLOBAL DESIGN CHECK	GDC Required
ICNIRP CONFORMITY	Complies to GSD008 Without Control
UNDERGROUND SERVICES SEARCHES	N/A
STRUCTURAL CHECK	N/A
COOLING CHECK	N/A

No.	Revision	By	Ckd	Date
A1	Preliminary Issue For Comment	NTA	JS	06.04.18

EXISTING CAR PARK

PROPOSED MBNL 75ø WIDE ARMOURED TRUNKING COVERED WITH BACK & YELLOW HAZARD TAPE TO BE INSTALLED ON EXISTING CONCRETE BASE TO RUN PROPOSED HUAWEI BTS 10mm² POWER CABLE

PROPOSED MBNL 1No. COMMSCOPE BOB TO BE INSTALLED ON SIDE OF EXISTING GANTRY SUPPORT POST 1m ABOVE GROUND LEVEL

EXISTING MBNL ULTRASITE CABINET C/W FLEXI MODULES

EXISTING MBNL ELECTRICAL METER CABINET ON CONCRETE BASE WITHIN FENCELINE C/W AC DISTRIBUTION BOARD. PROPOSED 50A MERLIN GERIN MCB TO BE INSTALLED FOR HUAWEI BTS3900A CABINET & 10mm² POWER CABLE INSTALLED FOR PROPOSED APM30H verD CABINET

EXISTING 1.8m HIGH CHAINLINK COMPOUND FENCE WITH 3No. STRANDS OF BARBED WIRE C/W SINGLE ACCESS GATE

EXISTING 17m HIGH SWANN COLUMN B ON A CONCRETE BASE C/W ACCESS LADDER & FALL ARREST

PROPOSED 1No. TRUNK FIBRE CABLE TO BE STEEL BANDED UP MONOPOLE AT 1m CENTERS

EXISTING 3No. MBNL 1800/2100 ANTENNAS MOUNTED TO HEADFRAME SUPPORT POLES TO BE REMOVED & REPLACED WITH PROPOSED 3No. MBNL 1800/2600 ANTENNAS ON NEW 60.3ø x3.2x2000 LONG CHS SUPPORT POLES FIXED HEADFRAME USING NEW MAFI 3274 CLOSE OFFSET BRACKETS

EXISTING 3No. MBNL 1800/2100 ANTENNAS MOUNTED TO HEADFRAME SUPPORT POLES TO BE REMOVED & REPLACED WITH PROPOSED 3No. MBNL 2100 ANTENNAS ON NEW 60.3ø x3.2x2400 LONG CHS SUPPORT POLES FIXED TO HEADFRAME USING NEW MAFI 3274 CLOSE OFFSET BRACKETS

PROPOSED MBNL 1No. COMMSCOPE BOB & 3No. HUAWEI RRHs TO BE INSTALLED END ON TO REAR OF ANTENNA SUPPORT POLES ON EXISTING TOWER SAFE WORKING PLATFORM 1m ABOVE GRILLAGE LEVEL

GROUND LEVEL
00.0m

EXISTING MBNL BTS3900A CABINETS (STACKED) ON EXISTING CONCRETE BASE COMPRISING OF TMC11HverD & 1800 RFC verD. EXISTING TMC11H verD CABINET TO BE REMOVED & REPLACED WITH PROPOSED APM30H verD CABINET C/W 3No. 2.9kW RECTIFIERS AND UPGRADED INTERNALLY

PROPOSED 300x3000 LONG LOOP BACK CABLE TRAY TO BE HORIZONTALLY INSTALLED BETWEEN EXISTING GANTRY SUPPORT POLE & PROPOSED 114.3ø x6.3x3000 LONG CHS SUPPORT POLE FIXED TO EXISTING CONCRETE BASE FOR EXCESS FIBRE RUN OFF.
SEE DRG No. NHE057 11 FOR DETAILS

EXISTING MBNL 1500 HIGH STEEL POST ON BASE PLATE

EXISTING MBNL 1500 HIGH STEEL POST ON BASE PLATE

EXISTING MBNL EMERSON PSU CABINET ON CONCRETE BASE C/W 8No. 1.2kW RECTIFIERS (9.6kW) 1No. BATTERY STRING & TRANSMISSION EQUIPMENT. PSU NOT SUITABLE FOR UPGRADE. DOES NOT MEET N+1 REQUIREMENT. EXISTING HUAWEI DC POWER TO BE REMOVED FOR AC SUPPLY

ROOF LEVEL
5.6m AGL

ROOF LEVEL
5.6m AGL

SITE PLAN
(SCALE: 1:100)

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Drawing Title: SITE PLAN

Purpose of Issue: PLANNING

Drawing No: NHE057 02

TM Cell ID:	TM Site ID:	MBNL Cell ID:
16822	1205780	NHE057

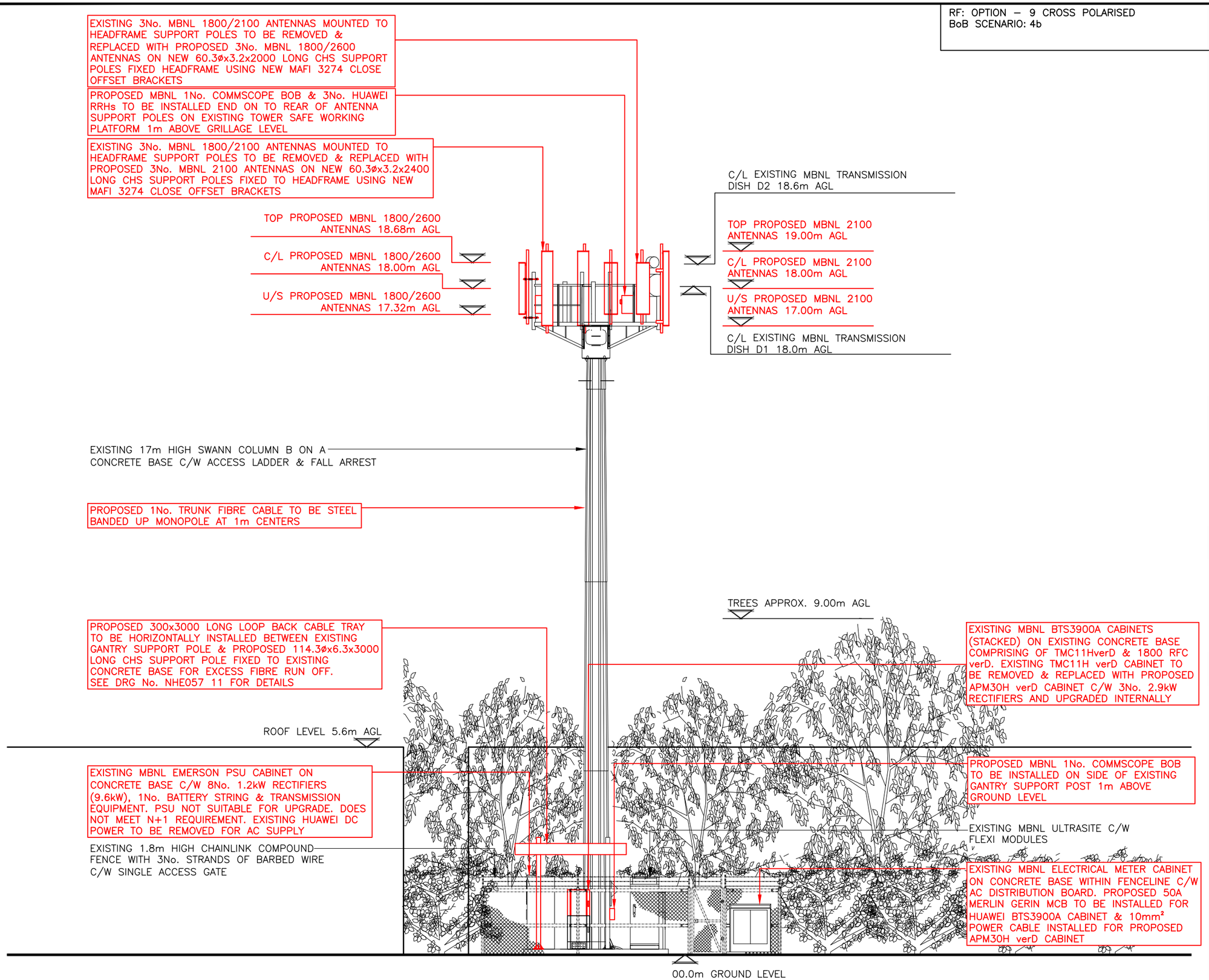
Scale:	Drawn:	Date:	Issue:
As Shown	NTA	06.04.18	A1

Checked:	Date:	Approved:	Date:
JS	06.04.18	SDG	06.04.18

A3

RF: OPTION – 9 CROSS POLARISED
BoB SCENARIO: 4b

1 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE
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5 READ IN CONJUNCTION WITH CONSTRUCTION NOTES DRAWING



NORTH WEST ELEVATION
(SCALE: 1:100)

A3

No.	Revision	By	Ckd	Date
A1	Preliminary Issue For Comment	NTA	JS	06.04.18

MBNL

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Site Name & Address:

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HERTFORDSHIRE
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Drawing Title: NORTH WEST ELEVATION

Purpose of Issue: PLANNING

Drawing No: NHE057 03

TM Cell ID:	TM Site ID:	MBNL Cell ID:
16822	1205780	NHE057

Scale:	Drawn:	Date:	Issue:
As Shown	NTA	06.04.18	A1

Checked:	Date:	Approved:	Date:
JS	06.04.18	SDG	06.04.18

EXISTING CABINET DETAILS

NUMBER: 1No.
MANUFACTURER: HUAWEI
TYPE/REF: BTS3900A CABINET (TMC11HverD)
LOCATION: OUTDOOR
DIMENSIONS: 600x480x700 HIGH
MATERIAL: STEEL
COLOUR: GREY (RAL 7035)
STATUS: REMOVE
COMMENTS:
TO BE REPLACED WITH APM30H verD CABINET

NUMBER: 1No.
MANUFACTURER: HUAWEI
TYPE/REF: BTS3900A CABINET (1800 RFC verD)
LOCATION: OUTDOOR
DIMENSIONS: 600x480x700 HIGH
MATERIAL: STEEL
COLOUR: GREY (RAL 7035)
STATUS: RETAIN
COMMENTS: –

NUMBER: 1No.
MANUFACTURER: NOKIA
TYPE/REF: ULTRASITE CABINET
LOCATION: OUTDOOR
DIMENSIONS: 770x770x1800 HIGH
MATERIAL: STEEL
COLOUR: GREY
STATUS: RETAIN
COMMENTS: HOUSING FLEXI MODULES

PROPOSED CABINET DETAILS

NUMBER: 1No.
MANUFACTURER: HUAWEI
TYPE/REF: BTS3900A CABINET (APM30HverD)
LOCATION: OUTDOOR
DIMENSIONS: 600x480x700 HIGH
MATERIAL: STEEL
COLOUR: GREY (RAL 7035)
STATUS: PROPSOED
COMMENTS: C/W 3No. 2.9kW RECTIFIERS & UPGRADED INTERNALLY WITH 2600 BBU

EXISTING METER CABINET DETAILS

NUMBER: 1No.
MANUFACTURER: PORTASTOR
TYPE/REF: LARGE METER CABINET
LOCATION: OUTDOOR
DIMENSIONS: 1000x400x1100 HIGH
MATERIAL: STEEL
COLOUR: GREEN
STATUS: RETAIN
COMMENTS: SINGLE PHASE C/W REC METER & AC DISTRIBUTION BOARD.

PROPOSED 50A MERLIN GERIN MCB TO BE INSTALLED FOR HUAWEI BTS3900A CABINET & 10mm² POWER CABLE INSTALLED FOR PROPOSED APM30H verD CABINET

EXISTING PSU DETAILS

NUMBER: 1No.
MANUFACTURER: EMERSON
TYPE/REF: PSU CABINET
LOCATION: OUTDOOR
DIMENSIONS: 770x770x1800 HIGH
MATERIAL: STEEL
COLOUR: GREY
STATUS: RETAIN
COMMENTS: C/W 8No. 1.2kW RECTIFIERS (9.6kW), 1No. BATTERY STRING & TRANSMISSION EQUIPMENT

NOT SUITABLE FOR UPGRADE. DOES NOT MEET N+1 REQUIREMENT. EXISTING HUAWEI DC POWER TO BE REMOVED FOR AC SUPPLY

PROPOSED RRH AND FIBRE SYSTEM DETAILS

NUMBER: 3No.
MANUFACTURER: HUAWEI
TYPE/REF: RRH (REMOTE RADIO HEAD, 2600MHz)
LOCATION: OUTDOOR
DIMENSIONS: 300x120x400
MATERIAL: STEEL
COLOUR: GREY
STATUS: PROPOSED
COMMENTS: TO BE FIXED END ON 1m ABOVE TOWER SAFE WORKING PLATFORM

NUMBER: 1No.
MANUFACTURER: COMMSCOPE
TYPE/REF: (ANTENNA END) BOB (FE–12104–EE–R4)
LOCATION: OUTDOOR
DIMENSIONS: 267x102x318
MATERIAL: PLASTIC
COLOUR: GREY
STATUS: PROPOSED
COMMENTS: TO BE INSTALLED ON NEW UNISTRUT FRAME FIXED 1m ABOVE TOWER SAFE WORKING PLATFORM

NUMBER: 1No.
MANUFACTURER: COMMSCOPE
TYPE/REF: (BTS END) BOB (FE–12104–EE–R4)
LOCATION: OUTDOOR
DIMENSIONS: 267x102x318
MATERIAL: PLASTIC
COLOUR: GREY
STATUS: PROPOSED
COMMENTS: TO BE FIXED 1m ABOVE GROUND LEVEL TO SIDE OF EXISTING GANTRY SUPPORT POST

EXISTING TOWER DETAILS

MANUFACTURER: SWANN ENGINEERING
TYPE/REF: TYPE B COLUMN
HEIGHT: 17m
COLOUR: GALVANISED

EQUIPMENT DETAILS

(NOT TO SCALE)

A3

1 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE
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5 READ IN CONJUNCTION WITH CONSTRUCTION NOTES DRAWING

RF: OPTION – 9 CROSS POLARISED
BoB SCENARIO: 4b

STATUS KEY:
RETAIN: EXISTING AND TO REMAIN
RELOCATE: EXISTING AND TO BE RELOCATED
PROPOSED: NEW ON SITE
REMOVE: TO BE REMOVED FROM SITE

LOCATION KEY:
OUTDOOR: LOCATED OUTSIDE
INDOOR: LOCATED WITHIN AN EQUIPMENT CABIN OR EQUIPMENT ROOM
INTERNAL: LOCATED INSIDE A CABINET OR ITEM OF EQUIPMENT

No.	Revision	By	Ckd	Date
A1	Preliminary Issue For Comment	NTA	JS	06.04.18

MBNL

HUAWEI

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ASCOT INDUSTRIAL ESTATE
ICKNIELD WAY
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SG6 1TD

Drawing Title: EQUIPMENT DETAILS

Purpose of Issue: PLANNING

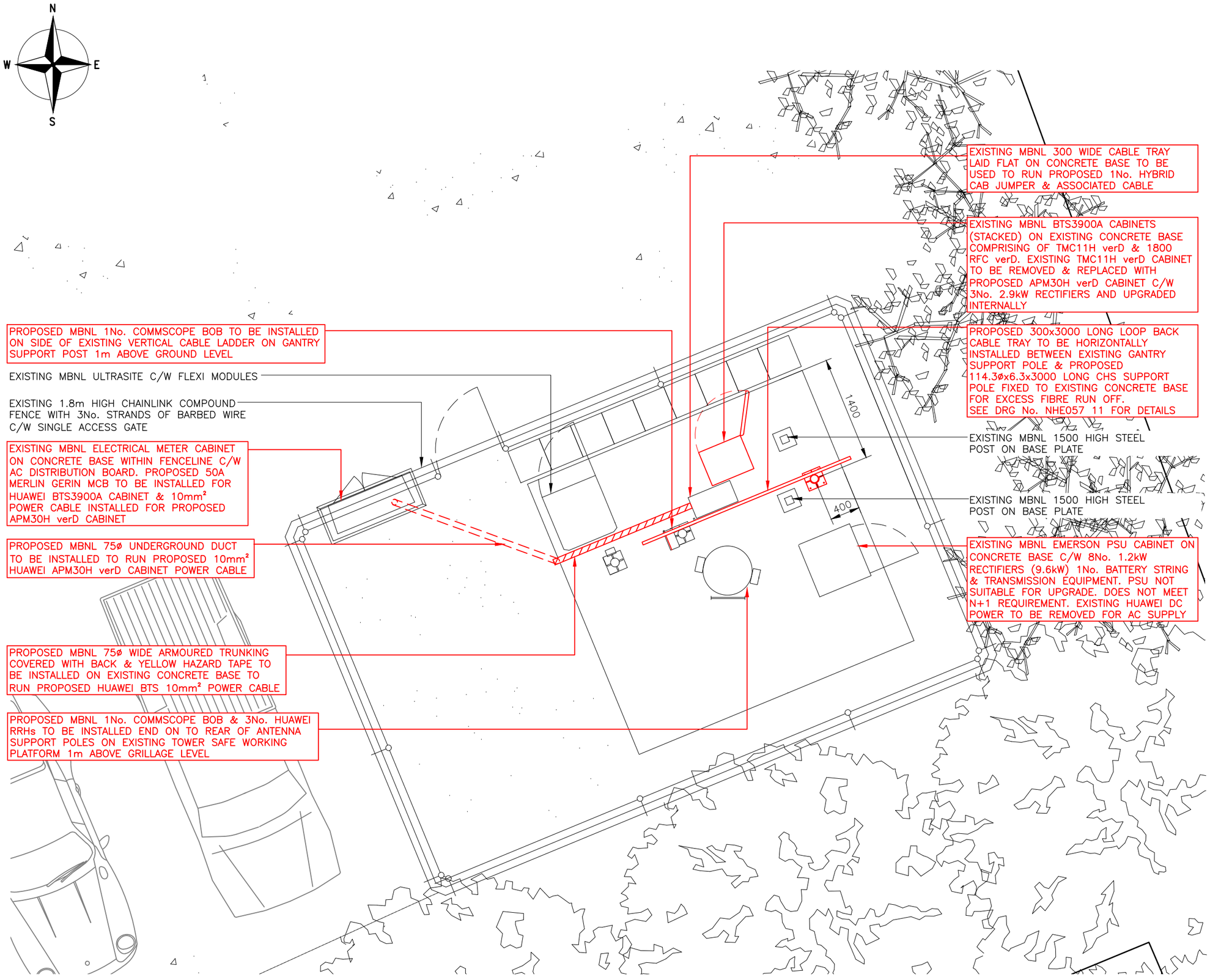
Drawing No: NHE057 04

TM Cell ID:	TM Site ID:	MBNL Cell ID:
16822	1205780	NHE057

Scale:	Drawn:	Date:	Issue:
As Shown	NTA	06.04.18	A1

Checked:	Date:	Approved:	Date:
JS	06.04.18	SDG	06.04.18

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EQUIPMENT LAYOUT
(SCALE: 1:50)

A3

No.	Revision	By	Ckd	Date
A1	Preliminary Issue For Comment	NTA	JS	06.04.18

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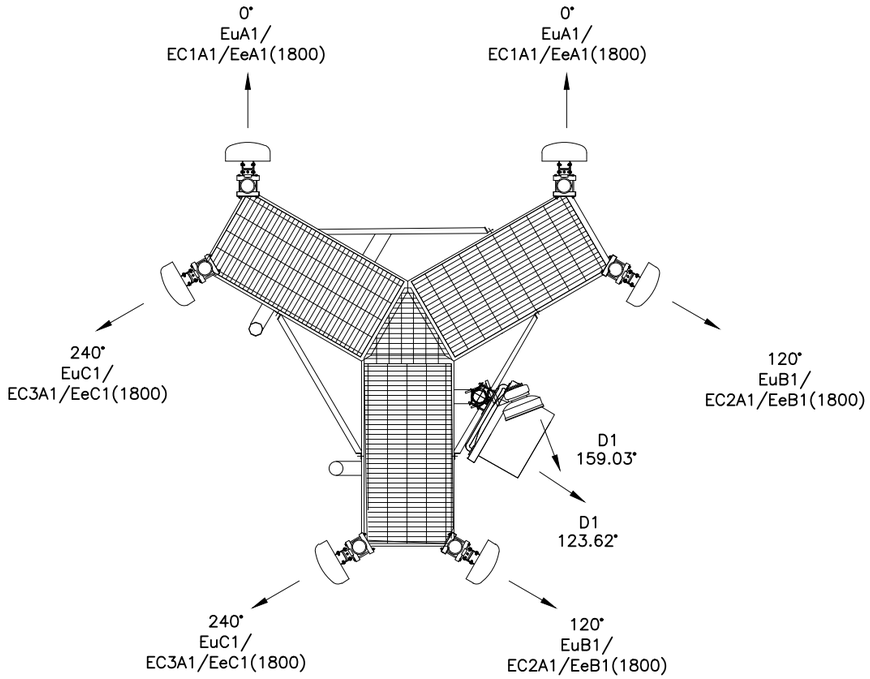
Drawing Title: EQUIPMENT LAYOUT

Purpose of Issue: PLANNING

Drawing No: NHE057 05

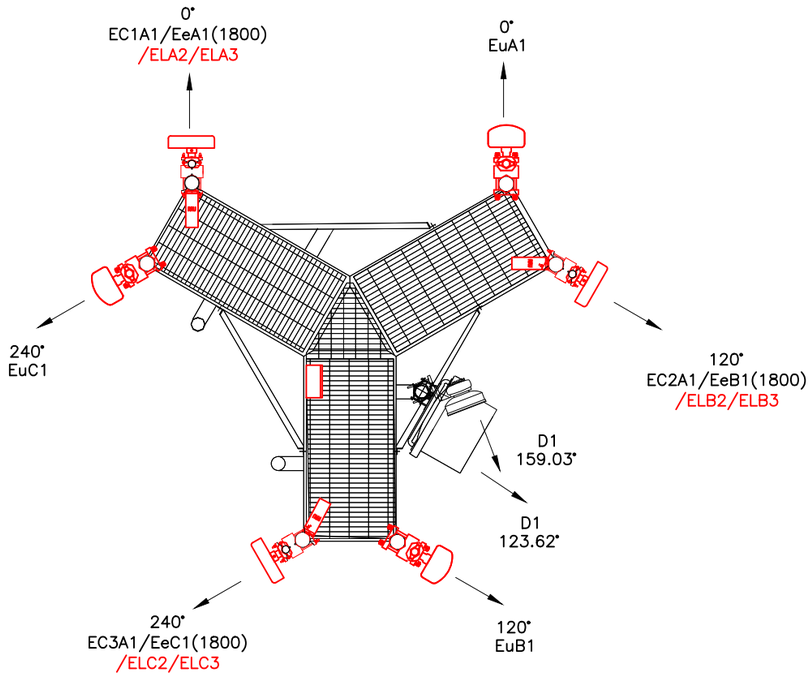
TM Cell ID:	TM Site ID:	MBNL Cell ID:
16822	1205780	NHE057

Scale:		Drawn:	Date:	Issue:
As Shown		NTA	06.04.18	A1
Checked:	Date:	Approved:	Date:	
JS	06.04.18	SDG	06.04.18	



EXISTING ANTENNA DETAILS

(Scale 1:50)



PROPOSED ANTENNA DETAILS

(Scale 1:50)

1 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE
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No.	Revision	By	Ckd	Date
A1	Preliminary Issue For Comment	NTA	JS	06.04.18

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HERTFORDSHIRE
SG6 1TD

Drawing Title: ANTENNA LAYOUT

Purpose of Issue: PLANNING

Drawing No: NHE057 06

TM Cell ID:	TM Site ID:	MBNL Cell ID:
16822	1205780	NHE057

Scale:	Drawn:	Date:	Issue:
As Shown	NTA	06.04.18	A1

Checked:	Date:	Approved:	Date:
JS	06.04.18	SDG	06.04.18

100mm
75mm
50mm
25mm
0mm
A3

PRE–UPGRADE ANTENNA LINE KEY

Sector	Antenna Type	Antenna Top C/L U/S(m)	Antenna Length (m)	Bearing EGN	Mechanical Tilt (+ve downtilt/ –ve uptilt	Manufacturer's Port Frequency Range	Operating Frequency	RFU/ RRH	MHA Name	Main Feeder No, Size & Length	MHA Tail No, Size & Length	Estimated Total Loss dB	Comments
1	3300133 CSA IK0302A	18.90m	1.9m	0°	AS PER RDS	1710–1880	1800	RFU	POWERWAVE (SHARED)	1No. 5–50 21m	1No. 4–50 3m	EXISTING	REMOVE
		18.00m				1900–2170	2100	RFU	KA2100A (SHARED)	1No. 5–50 22m	1No. 4–50 3m	EXISTING	
		17.10m											
1	3300133 CSA IK0302A	18.90m	1.9m	0°	AS PER RDS	1710–1880	1800	RFU	POWERWAVE (SHARED)	1No. 5–50 21m	1No. 4–50 3m	EXISTING	REMOVE
		18.00m				1900–2170	2100	RFU	KA2100A (SHARED)	1No. 5–50 22m	1No. 4–50 3m	EXISTING	
		17.10m											
2	3300133 CSA IK0302A	18.90m	1.9m	120°	AS PER RDS	1710–1880	1800	RFU	POWERWAVE (SHARED)	1No. 5–50 21m	1No. 4–50 3m	EXISTING	REMOVE
		18.00m				1900–2170	2100	RFU	KA2100A (SHARED)	1No. 5–50 22m	1No. 4–50 3m	EXISTING	
		17.10m											
2	3300133 CSA IK0302A	18.90m	1.9m	120°	AS PER RDS	1710–1880	1800	RFU	POWERWAVE (SHARED)	1No. 5–50 21m	1No. 4–50 3m	EXISTING	REMOVE
		18.00m				1900–2170	2100	RFU	KA2100A (SHARED)	1No. 5–50 22m	1No. 4–50 3m	EXISTING	
		17.10m											
3	3300133 CSA IK0302A	18.90m	1.9m	240°	AS PER RDS	1710–1880	1800	RFU	POWERWAVE (SHARED)	1No. 5–50 21m	1No. 4–50 3m	EXISTING	REMOVE
		18.00m				1900–2170	2100	RFU	KA2100A (SHARED)	1No. 5–50 22m	1No. 4–50 3m	EXISTING	
		17.10m											
3	3300133 CSA IK0302A	18.90m	1.9m	240°	AS PER RDS	1710–1880	1800	RFU	POWERWAVE (SHARED)	1No. 5–50 21m	1No. 4–50 3m	EXISTING	REMOVE
		18.00m				1900–2170	2100	RFU	KA2100A (SHARED)	1No. 5–50 22m	1No. 4–50 3m	EXISTING	
		17.10m											

POST–UPGRADE ANTENNA LINE KEY

Sector	Antenna Type	Antenna Top C/L U/S(m)	Antenna Length (m)	Bearing EGN	Mechanical Tilt (+ve downtilt/ –ve uptilt	Manufacturer's Port Frequency Range	Operating Frequency	RFU/ RRU	Main Feeder No, Size & Length	MHA Type	MHA Tail No, Size & Length	RET Cable Location	RET Name	RRH Tails. No, Size & Length	Hybrid RRH Jumper Length	Hybrid Trunk Fibre Length	Hybrid Cab Jumper Length	Est Total Loss dB
1	HUAWEI ATR4518R14	19.68m	1.365m	0°	AS PER RDS	1710 – 2690	1800	RFU	2No. 5–50 21m	COMMSCOPE E15S09P75	2No. 4–50 3m	YES	E18P:000: yyC	–	–	–	–	EXISTING
		18.00m				1710 – 2690	2600	RRH	–	–	–	ENABLED	E26P:000: yL	2No. 4–50 4m	4m	25m	5m	0.5
		17.32m				1710 – 2690	2600					ENABLED	E26S:000: yyyR	2No. 4–50 4m				0.5
2	HUAWEI ATR4518R14	19.68m	1.365m	120°	AS PER RDS	1710 – 2690	1800	RFU	2No. 5–50 21m	COMMSCOPE E15S09P75	2No. 4–50 3m	YES	E18P:120: yyC	–	–	–	–	EXISTING
		18.00m				1710 – 2690	2600	RRH	–	–	–	ENABLED	E26S:120: yL	2No. 4–50 4m	4m	25m	5m	0.5
		17.32m				1710 – 2690	2600					ENABLED	E26P:120: yyyR	2No. 4–50 4m				0.5
3	HUAWEI ATR4518R14	19.68m	1.365m	240°	AS PER RDS	1710 – 2690	1800	RFU	2No. 5–50 21m	COMMSCOPE E15S09P75	2No. 4–50 3m	YES	E18S:240: yyC	–	–	–	–	EXISTING
		18.00m				1710 – 2690	2600	RRH	–	–	–	ENABLED	E26S:240: yL	2No. 4–50 4m	4m	25m	5m	0.5
		17.32m				1710 – 2690	2600					ENABLED	E26P:240: yyyR	2No. 4–50 4m				0.5
1	1017431 COMMSCOPE CV65BSX–2x2	19.00m	1.974m	0°	AS PER RDS	790–960	SPARE	–	–	–	–	ENABLED	NONE: 000:R1	–	–	–	–	–
		18.00m				1710–2690	2100	RFU	2No. 5–50 22m		2No. 4–50 3m	ENABLED	E21P:H21P: 000:Y1	–	–	–	–	EXISTING
		17.00m																
2	1017431 COMMSCOPE CV65BSX–2x2	19.00m	1.974m	120°	AS PER RDS	790–960	SPARE	–	–	–	–	ENABLED	NONE: 120:R1	–	–	–	–	–
		18.00m				1710–2690	2100	RFU	2No. 5–50 22m		2No. 4–50 3m	ENABLED	E21P:H21P: 120:Y1	–	–	–	–	EXISTING
		17.00m																
3	1017431 COMMSCOPE CV65BSX–2x2	19.00m	1.974m	240°	AS PER RDS	790–960	SPARE	–	–	–	–	ENABLED	NONE: 240:R1	–	–	–	–	–
		18.00m				1710–2690	2100	RFU	2No. 5–50 22m		2No. 4–50 3m	ENABLED	E21P:H21P: 240:Y1	–	–	–	–	EXISTING
		17.00m																

EXISTING DISH KEY

STATUS	OPERATOR	DISH REF	DISH DIA	BEARING	HEIGHT TO Cntr.(AGL)	LINK No.
EXISTING	MBNL	D1	ø600	123.62°	18.6m	LK110284
EXISTING	MBNL	D2	ø600	159.03°	18.0m	ML107994

A3

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RF: OPTION – 9 CROSS POLARISED
BoB SCENARIO: 4b

No.	Revision	By	Ckd	Date
A1	Preliminary Issue For Comment	NTA	JS	06.04.18

MBNL

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SG6 1TD

Drawing Title: ANTENNA LINE KEY

Purpose of Issue: PLANNING

Drawing No: NHE057 07

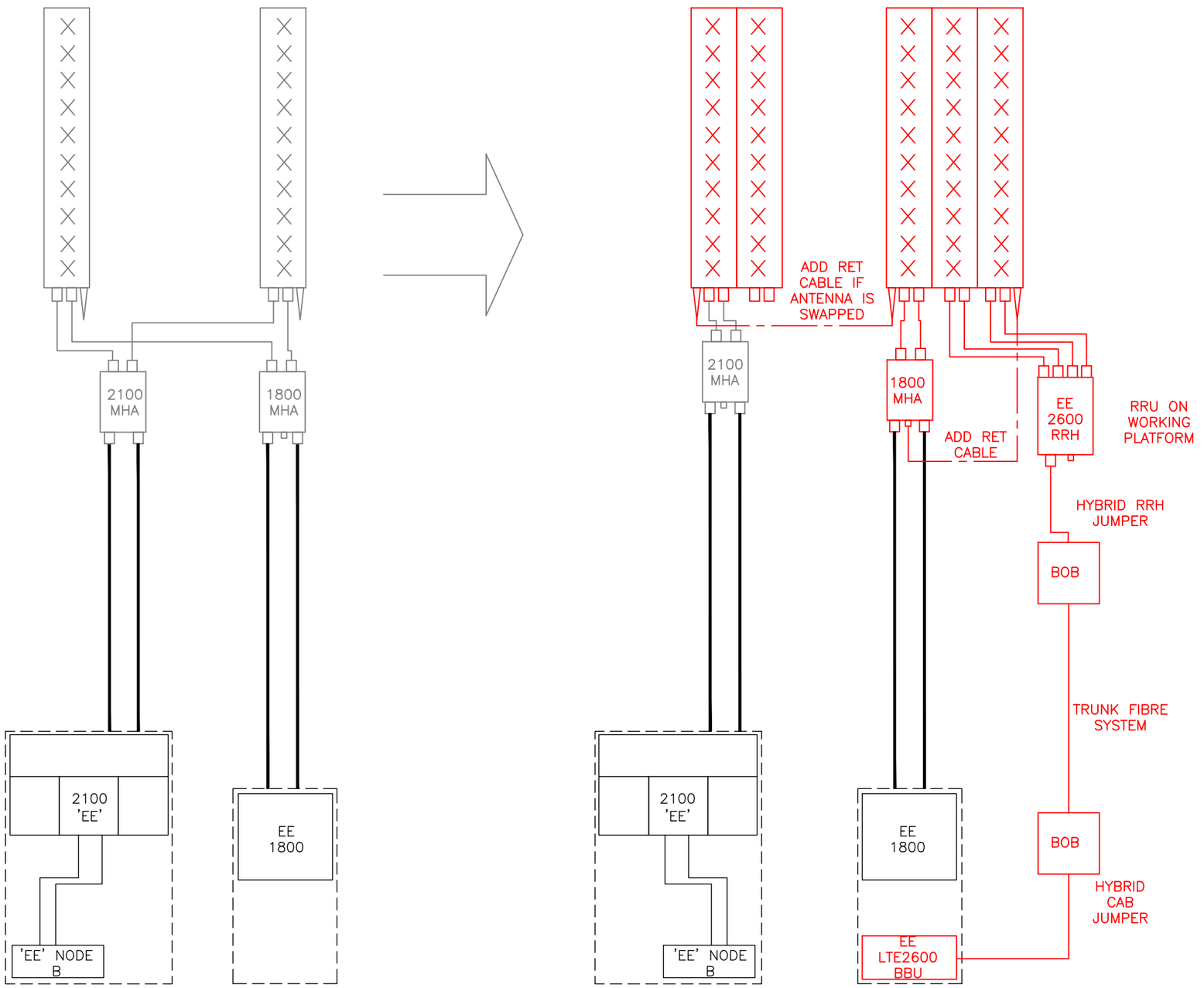
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16822	1205780	NHE057

Scale:	Drawn:	Date:	Issue:
As Shown	NTA	06.04.18	A1

Checked:	Date:	Approved:	Date:
JS	06.04.18	SDG	06.04.18

RF OPTION 9 CROSS POLARISED – 6 No. WIDEBAND ANTENNA SITE – UPGRADE TO 6 No. MULTIBAND ANTENNAS (2600mhz ONLY UPGRADE EE UNILATERAL 1800mhz ANTENNA) –B7W/ii/1

EXISTING WIDE BAND (2x 2 PORT) 1.3m OR 1.9m ANTENNA 65° BW 17–21



ANTENNA SCHEMATIC

(NOT TO SCALE)

A3

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RF: OPTION – 9 CROSS POLARISED
BoB SCENARIO: 4b

NOTES:

No.	Revision	By	Ckd	Date
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Drawing Title: ANTENNA SCHEMATIC

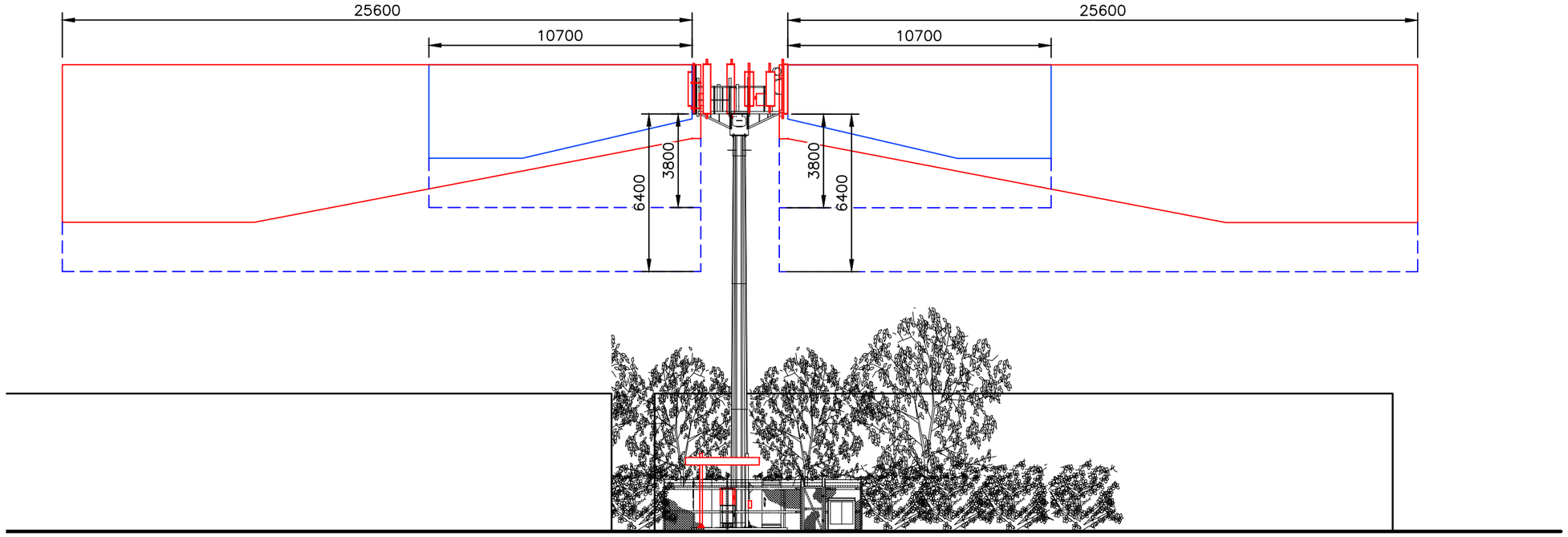
Purpose of Issue: PLANNING

Drawing No: NHE057 08

TM Cell ID:	TM Site ID:	MBNL Cell ID:
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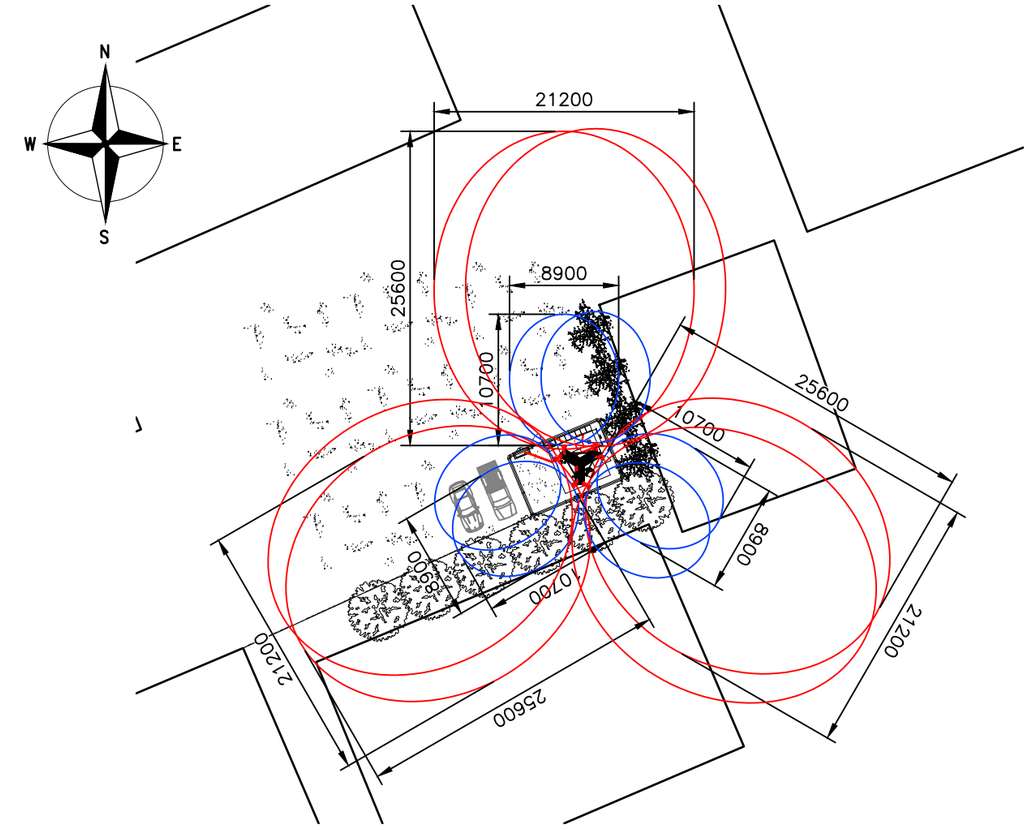
Scale:	Drawn:	Date:	Issue:
As Shown	NTA	06.04.18	A1

Checked:	Date:	Approved:	Date:
JS	06.04.18	SDG	06.04.18



ICNIRP EXCLUSION ZONE NORTH WEST ELEVATION

(Scale 1:200)



ICNIRP EXCLUSION ZONE PLAN

(Scale 1:500)

MULTI OPERATOR CALCULATOR

	800MHz	1800MHz	2100MHz	2600MHz	Any 85/115 Antennas? 85/65	Tilt restriction applied? 6/10	
Watts	80	320	220	80	65	None/10	
	PUBLIC WIDTH	PUBLIC LENGTH	PUBLIC REAR	PUBLIC H1	PUBLIC H2	PUBLIC H2L	BUILD HEIGHT
	21.20	25.60	0.30	1.00	4.4	17.8	6.4/8.4
	OCCUP. WIDTH	OCCUP. LENGTH		OCCUP. H1	OCCUP. H2	OCCUP. H2L	BUILD HEIGHT
	8.90	10.70	–	0.20	1.80	6.9	3.8/5.8

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NOTES:
ICNIRP EXCLUSION ZONES ARE BASED ON VALUES WITHIN THE MBNL ICNIRP COMPLIANCE CERTIFICATION DOCUMENT GSDD008 VERSION 7.0 (28/04/16)

No.	Revision	By	Ckd	Date
A1	Preliminary Issue For Comment	NTA	JS	06.04.18

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Drawing Title: ICNIRP EXCLUSION ZONES

Purpose of Issue: PLANNING

Drawing No: NHE057 09

TM Cell ID:	TM Site ID:	MBNL Cell ID:
16822	1205780	NHE057

Scale:	Drawn:	Date:	Issue:
As Shown	NTA	06.04.18	A1

Checked:	Date:	Approved:	Date:
JS	06.04.18	SDG	06.04.18

A3

GENERAL NOTES

1.1 DO NOT SCALE ANY DRAWING WITHIN THIS SERIES.

1.2 ALL DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE.

1.3 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS WITHIN THIS SERIES.

1.4 ALL BRITISH STANDARDS REFERENCED ON THIS DRAWING ARE TO BE TO THE CURRENT REVISION.

1.5 ALL ASPECTS OF THE WORKS TO BE IN ACCORDANCE WITH THE LATEST OPERATORS DESIGN / INSTALLATION SPECIFICATIONS.

1.6 ALL DIMENSIONS SHOWN ON THE SCHEME DRAWINGS TO EXISTING STRUCTURES ARE APPROXIMATE AND THE CONTRACTOR IS TO OBTAIN ALL EXACT SITE DIMENSIONS NECESSARY TO CARRY OUT PROPOSED WORKS.

1.7 ALL SPECIALIST ITEMS TO BE USED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

1.8 THE CONTRACTOR SHALL SUBMIT HIS PROPOSALS FOR THE TEMPORARY SUPPORTS AND METHOD STATEMENT SHOWING THE SEQUENCE OF CONSTRUCTION OF THE WORKS TO THE EMPLOYER FOR COMMENT BEFORE COMMENCEMENT OF THE WORKS.

1.9 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SUFFICIENT TOLERANCES ARE PROVIDED AND INTEGRATED THROUGHOUT ALL ELEMENTS OF THE WORKS. THE CONTRACTOR IS TO TAKE ACCOUNT OF TOLERANCES DETAILED ELSEWHERE WHEN COMPLYING WITH THIS CLAUSE.

1.10 THE CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION TO PREVENT WATER PENETRATION INTO EXISTING BUILDINGS DURING.

1.11 THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR MAINTAINING THE STABILITY OF ALL EXISTING BUILDINGS AND STRUCTURES WITHIN AND ADJACENT TO THE WORKS. THIS INCLUDES, ALL OF THE WORKS FROM THE DATE OF THE POSSESSION OF THE SITE UNTIL PRACTICAL COMPLETION OF THE WORKS. THE CONTRACTOR SHALL DESIGN, INSTALL AND MAINTAIN ALL NECESSARY TEMPORARY WORKS TO COMPLY WITH THE ABOVE.

1.12 ALL DETAILS OF EXISTING CONSTRUCTION TO BE CONFIRMED ON SITE. ANY DISCREPANCIES BETWEEN SITE SPECIFIC DESIGN DRAWINGS AND CONTRACTORS FINDINGS ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

1.13 REMEDIAL WALL TIES TO HAVE RESIN/RESIN FIXINGS TYPE HW BY HILTI OR SIMILAR APPROVED ALTERNATIVE.

1.14 DRIP LOOP. AS FEEDER CABLES APPROACH EQUIPMENT ENTRY POINTS THEY SHALL BE INSTALLED SO AS TO FALL AWAY FROM THE EQUIPMENT, PREVENTING WATER RUNNING ALONG THE FEEDER CABLES ONTO THE GLAND OR OPENING. IN ADDITION A CABLE TIE SHALL BE ADDED TO EACH FEEDER WITHIN 150MM OF THE CABLE ENTRY TO ACT AS A DRIP POINT.

STRUCTURAL STEELWORK

2.1 STRUCTURAL STEEL TO BE GRADE S275 MILD STEEL TO BS EN10025.

2.2 ALL WELDS TO BE MINIMUM 6MM FILLET WELD UNLESS NOTED OTHERWISE. WELDS AT TUBE TO TUBE CONNECTIONS TO BE FULL PENETRATION BUTT WELDS.

2.3 BOLTS TO BE GRADE 8.8 TO BS 4190, MINIMUM SIZE 16MM DIA. (UNLESS STATED OTHERWISE) EXCEPT FOR STUB TOWERS WHERE BOLTS ARE TO BE HSFG MINIMUM 20MM DIA. WITH LOAD INDICATOR WASHERS, TIGHTENED IN ACCORDANCE WITH THE SUPPLIERS RECOMMENDATIONS (UNLESS STATED OTHERWISE). BEARING SURFACES TO BE CLEAN GALVANISED.

2.4 ALL STEELWORK INCLUDING BOLTS TO BE GALVANISED BS729.

2.5 ALL GALVANISING DRAIN HOLES FOR RHS/CHS IF VISIBLE WHEN ERECTED ARE TO BE PLUGGED. DETAIL TO BE PROVIDED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER. ENDS OF ALL HOLLOW SECTIONS TO BE SEALED.

2.6 FABRICATION DRAWINGS BASED ON SITE DIMENSIONS TO BE PREPARED BY THE CONTRACTOR FOR ALL STEELWORK AND THESE ARE TO BE SUBMITTED TO THE ENGINEER FOR COMMENT.

STRUCTURAL STEELWORK (CONTINUED)

2.7 RESIN ANCHORS INTO SOLID MASONRY (NOT TOWERS) TO BE HIT HY70 INJECTION TECHNIQUE WITH ANCHOR ROD BY HILTI OR SIMILAR APPROVED ALTERNATIVE. REFER TO HILTI TECHNICAL LITERATURE FOR MIN EMBEDMENT DEPTH

2.8 RESIN ANCHORS INTO CONCRETE (NOT TOWERS) TO BE HIT HY200 WITH HIT–Z CHEMICAL FIXING SYSTEM ANCHOR RODS BY HILTI OR SIMILAR APPROVED ALTERNATIVE. REFER TO HILTI TECHNICAL LITERATURE FOR MIN EMBEDMENT DEPTH

2.9 RESIN ANCHORS INTO CONCRETE FOR REINFORCEMENT STARTER BARS TO BE HIT HY150 INJECTION TECHNIQUE BY HILTI OR SIMILAR APPROVED ALTERNATIVE. BAR DIA. TO BE SPECIFIED ON THE DESIGN DRAWINGS.

2.10 ALL ANCHOR RODS TO BE INSTALLED IN ACCORDANCE TO BS 8539 2012. SAFE SELECTION AND INSTALLATION OF ANCHORS FOR USE IN CONCRETE AND MASONRY.

2.11 MINOR SITE ERECTION DAMAGE TO BE MADE GOOD WITH A MINIMUM OF THREE COATS OF GALVAFROID. OR SIMILAR APPROVED ALTERNATIVE.

2.12 ALL STRUCTURAL STEELWORK TO BE CE MARKED

ELECTRICAL CABLING / LIGHTNING PROTECTION

3.1 THE LIGHTNING PROTECTION INSTALLATION SHALL COMPLY IN FULL WITH BS 6651.

3.2 LIGHTNING PROTECTION SHALL PROVIDE A MAXIMUM RESISTANCE OF 10 OHMS.

3.3 THE ELECTRICAL INSTALLATION SHALL COMPLY IN FULL WITH BS 7671 (REQUIREMENTS FOR ELECTRICAL INSTALLATIONS).

3.4 THE EARTHING INSTALLATION SHALL COMPLY IN FULL WITH BS 7430.

3.5 MINIMUM DISTANCE REQUIRED BETWEEN EARTH RODS TO BE 1.5 X THE EARTH ROD DEPTH.

3.6 ON COMPLETION OF THE WORKS TESTS CERTIFICATES SHALL BE PROVIDED FOR THE FOLLOWING;
I) ELECTRICAL INSTALLATION.
II) LIGHTNING PROTECTION SYSTEM.
III) CONFORMITY FOR FIRE/ENVIRONMENTAL ALARMS (IF REQ'D).
IV) DC COMMISSIONING.

3.7 ALL LIGHTNING PROTECTION EARTH TAPES ABOVE GROUND TO BE COPPER OR ALUMINIUM AS SPECIFIED ON THE SITE SPECIFIC DESIGN DRAWINGS. TAPES ABOVE GROUND TO BE PVC SHEATHED (GREY), BARE COPPER BELOW GROUND. BI–METALLIC JOINTS LOCATED ABOVE GROUND SHALL BE USED WHERE COPPER CONNECTS TO ALUMINIUM. WHERE AN EXISTING ROOFTOP LIGHTNING PROTECTION SYSTEM EXISTS, NEW TAPES SHALL MATCH THE EXISTING. WHEN LIGHTNING PROTECTION TAPES ARE TO BE INSTALLED ON ROOFTOPS WHERE NO EXISTING TAPES ARE INSTALLED, THEY SHALL BE PVC COVERED COPPER TAPES. PVC COLOUR SHALL BE SYMPATHETIC WITH THE BUILDING FINISHES.

3.8 FOLLOWING THE PROVISION OF AC POWER TO THE CABIN, THE CONTRACTOR SHALL CARRY OUT THE FOLLOWING WORKS RELATED TO THE INSTALLED FIRE ALARM PANEL (FAP) IF APPLICABLE:
A) CONNECT BATTERY, SUPPLIED WITH THE FAP, INTO THE PANEL.
B) CARRY OUT 'LAMP TEST' TO CONFIRM THAT ALL INDICATIONS ARE ILLUMINATING.
C) CHECK THAT 'MAIN HEALTHY' LAMP IS ILLUMINATED.
D) REMOVE DUST COVERS, IF FITTED, FROM SMOKE DETECTORS.
E) THE FIRE ALARM SYSTEM SHALL BE LEFT IN AN OPERATIONAL STATE UPON SITE COMPLETION (IF REQUIRED).

3.9 THE CONTRACTOR SHALL LIAISE WITH ELECTRICITY SUPPLY COMPANY IN ALL MATTERS RELATING TO THE CONNECTION OF ELECTRICITY SUPPLY WITHIN OPERATORS TIME SCALES.

ELECTRICAL CABLING / LIGHTNING PROTECTION (CONTINUED)

3.11 THE CONTRACTOR IS TO ENSURE THAT ANY EXISTING LIGHTNING PROTECTION SYSTEM, WHERE DIRECTLY AFFECTING THE CORRECT OPERATION OF THE OPERATORS INSTALLATION, IS IN A GOOD STATE OF REPAIR WITH CONDUCTOR TAPES CORRECTLY AND ADEQUATELY SECURED. ALL ADDITIONAL EXTRANEOUS METALWORK FORMING PART OF THE OPERATORS INSTALLATION AT ROOF LEVEL, INCLUDING CABLE TRAY, STEEL PLATFORMS AND STEP OVERS, SHALL BE CROSS–BONDED TO THE LIGHTNING PROTECTION SYSTEM.

3.12 WHERE THE OPERATORS SUB–MAIN ELECTRICITY SUPPLY CABLE IS INSTALLED ADJACENT OTHER SERVICES OR SURFACE ROUTED IN ACCESS WAYS, MAINTENANCE AREAS OR PASSING THROUGH LANDLORDS PROPERTY ETC... THEY SHALL BE CLEARLY MARKED WITH AN APPROPRIATE SIGN OR

3.13 THE CONTRACTOR IS TO ENSURE THAT THE MAIN EQUIPOTENTIAL BONDING CONDUCTOR IS INSTALLED AT THE NEAREST POINT BETWEEN THE LIGHTNING PROTECTION DOWN TAPE AND BUILDING MAIN EARTH TERMINAL IN ACCORDANCE WITH BS 7671, (IEE REG. 547 AND 413–02–02).

3.14 CABLE TRAY SIZES BEFORE AND AFTER JUNCTIONS ARE INDICATED ON THE RELATIVE SITE SPECIFIC DESIGN DRAWINGS.

3.15 CABLE TRAYS TO BE SUPPLIED BY; SWIFTS OF SCARBOROUGH LTD. CAYTON LOW ROAD, EASTFIELD, SCARBOROUGH, NORTH YORKSHIRE. YO11 3BY. OR A SIMILAR APPROVED ALTERNATIVE.

3.16 ALL CABLE TRAYS AND STEELWORK SHALL BE BONDED TO LIGHTNING PROTECTION TAPES AT THE END OF EACH RUN AND AT CHANGES IN DIRECTION.

3.17 ANTENNAS AND DISHES SHALL BE BONDED TO THE TOWER IN ACCORDANCE WITH THE LATEST OPERATORS RELEVANT DOCUMENTATION.

3.18 THE NEW LIGHTNING PROTECTION EARTH PIT FINAL POSITIONS AND EXTENT OF LIGHTNING PROTECTION SYSTEM IS TO BE DETERMINED BY A SPECIALIST CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.

3.19 EXISTING FENCING, GATES AND HANDRAILING TO BE CROSS–BONDED TO THE NEW LIGHTNING PROTECTION SYSTEM.

3.20 ELECTRICITY METER CABINET TO BE CROSS–BONDED TO MAIN LIGHTNING PROTECTION/EARTHING SYSTEM.

3.21 THE NUMBER OF EARTH PITS AND LENGTH OF EARTH RODS ARE DEPENDENT ON ACHIEVING LESS THAN 10 OHMS TO EARTH.

3.22 ELECTRICAL SUPPLY – CABLE CHANGEOVER SCHEDULE

THE CONTRACTOR SHALL PROVIDE A METHOD STATEMENT DETAILING THE ELECTRICAL POWER CHANGEOVER PRIOR TO COMMENCING ANY WORKS ON SITE. OPERATOR SHALL CONFIRM THAT THE STATEMENT IS ACCEPTABLE PRIOR TO PROGRAMMING THE WORKS.

3.23 WHEN ADDING OR RELOCATING EXISTING EARTH PITS THE CONTRACTOR SHALL ENSURE THAT SERVICE EARTH BONDS ARE MAINTAINED AT ALL TIMES.

3.24 THE CONTRACTOR SHALL INSTALL EMERGENCY LIGHTING IN ACCORDANCE WITH THE ENCLOSED DRAWINGS AND BS5266 PART 1. ALL FITTINGS SHALL BE APPROVED TO ICEL STANDARDS AND BE CONTROLLED VIA A SUITABLE KEY OPERATED TEST FACILITY, IDENTIFIED IN THE LIGHTING MANUFACTURERS O&M MANUALS. THE SUPPLY CABLES SHALL BE FIRE RATED IN ACCORDANCE WITH BS5266 PART 1.

3.25 ANY ALTERATIONS / ADDITIONS TO AN EXISTING FIRE ALARM SYSTEM SHOULD BE IN ACCORDANCE WITH BS5839 PART 1.

3.26 THE LOCAL AUTHORITY BUILDING CONTROL SURVEYOR SHALL BE INVITED BY THE CONTRACTOR TO WITNESS TESTS OF THE FIRE ALARM SYSTEM AND/OR ESCAPE LIGHTING.

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A1	Preliminary Issue For Comment	NTA	JS	06.04.18

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Drawing Title: CONSTRUCTION NOTES

Purpose of Issue: PLANNING

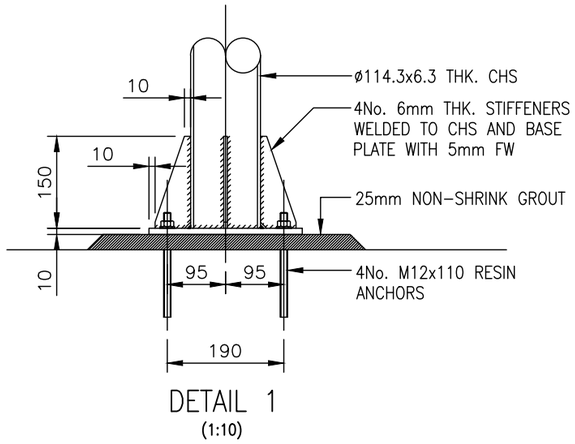
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16822	1205780	NHE057

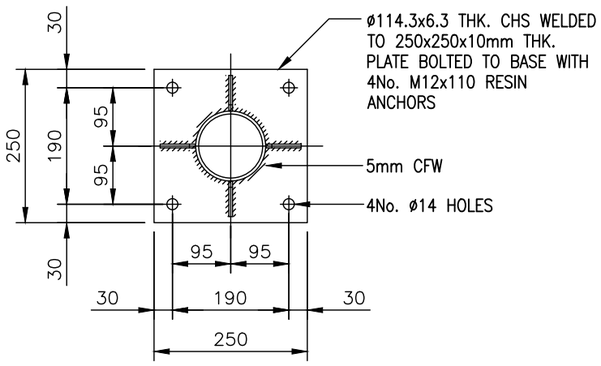
Scale:	Drawn:	Date:	Issue:
As Shown	NTA	06.04.18	A1
Checked: JS	Date: 06.04.18	Approved: SDG	Date: 06.04.18

100mm 75mm 50mm 25mm 0mm

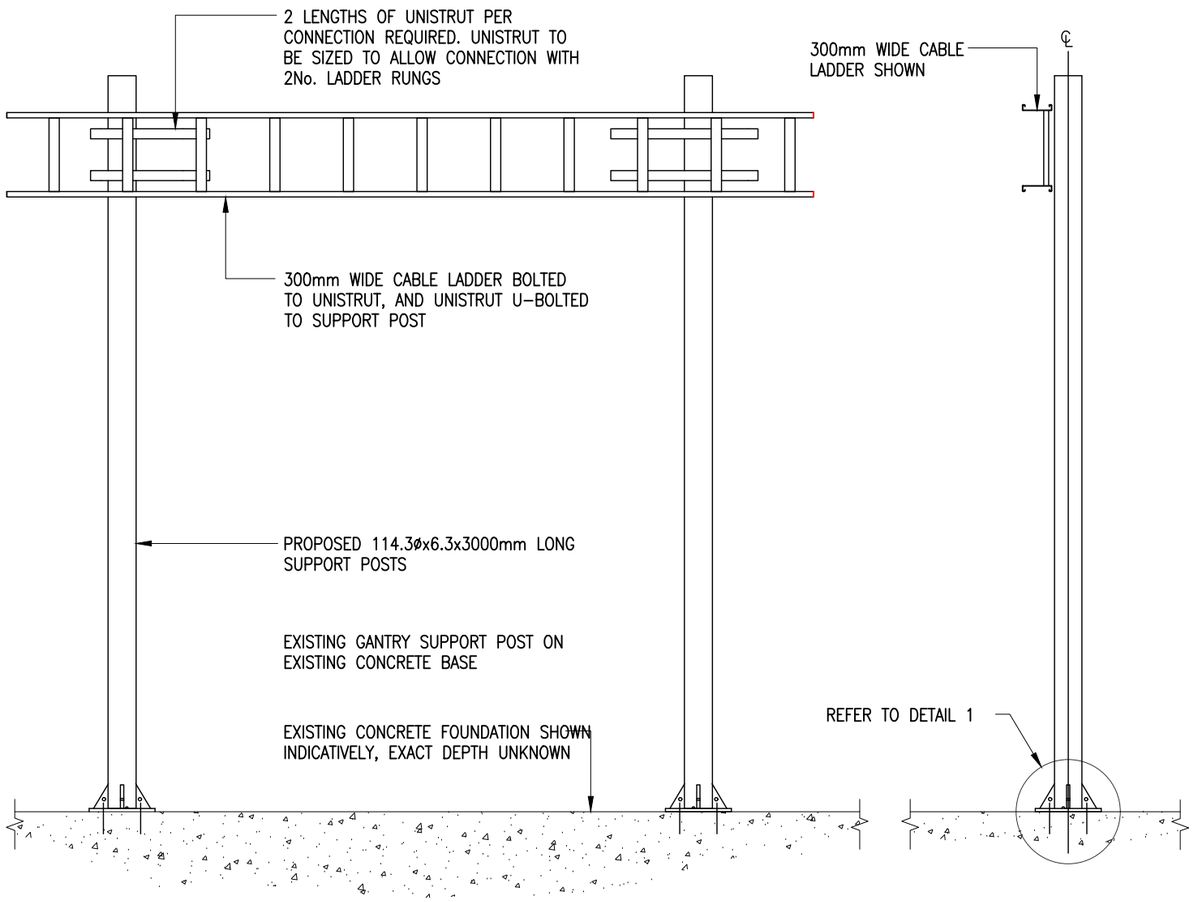
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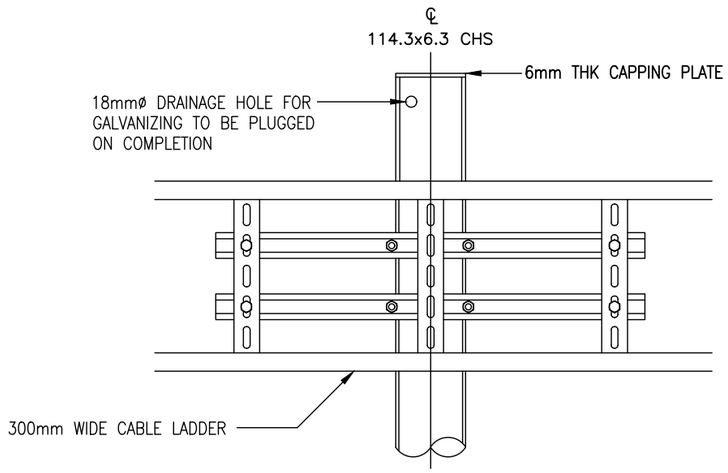
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(1:10)



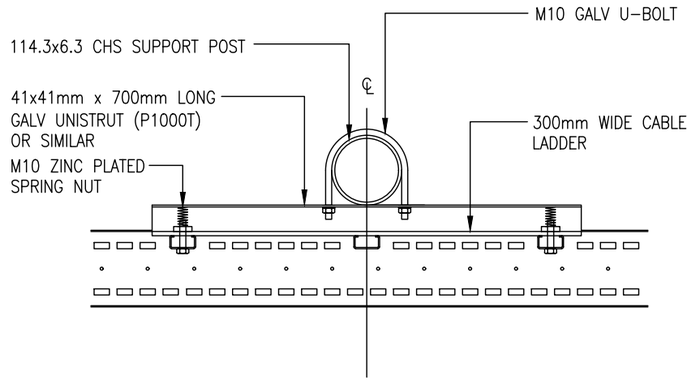
PLAN ON BASE PLATE DETAIL
(1:10)



ELEVATION ON CABLE LADDER AND SUPPORT POST
(1:25)



LADDER TO SUPPORT POST CONNECTION DETAIL
(1:25)



LADDER TO SUPPORT POST CONNECTION DETAIL
(1:25)

CABLE MANAGEMENT ON CONCRETE BASE
(AS SHOWN)

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Drawing Title: CABLE MANAGEMENT DETAILS

Purpose of Issue: PLANNING

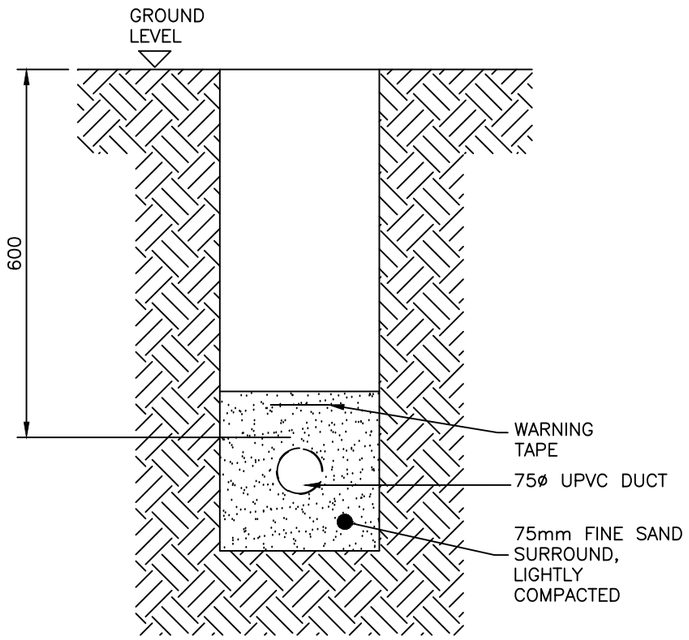
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TM Cell ID:	TM Site ID:	MBNL Cell ID:
16822	1205780	NHE057

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As Shown	NTA	06.04.18	A1

Checked:	Date:	Approved:	Date:
JS	06.04.18	SDG	06.04.18

A3



CABLE TRENCH DETAILS
SCALE 1:10

1 ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE
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HERTFORDSHIRE
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Drawing Title: TYPICAL DUCT DETAIL

Purpose of Issue: PLANNING

Drawing No: NHE057 12

TM Cell ID:	TM Site ID:	MBNL Cell ID:
16822	1205780	NHE057

Scale:	Drawn:	Date:	Issue:
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JS	06.04.18	SDG	06.04.18

A3