

NOTE:
CRANE SURVEY REQUIRED BY SPECIALIST CONTRACTOR
TO CONFIRM SET UP AREAS AND EXTENT OF PEDESTRIAN /
TRAFFIC MANAGEMENT DURING LIFTING OPERATIONS



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NOTES

PROJECT No.	238502
MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



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e-mail: info@whptelecoms.com

	PROJ No			
D	PROJ No 238502 BEARINGS UPDATE	26/10/23	JC	JC
C	PROJ No 238502 CONFIG STEP DOWN	06/10/23	WHT	JC
B	PROJ No 238502 MAJOR AMENDMENT	22/08/22	SMY	JC
A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP



CELLNEX UK
R+, 4TH FLOOR, 2 BLAGRAVE STREET, READING, RG1 1AZ
Tel. 020 4526 8553

SITE No **88406**
LONDON GREEN LANES
THE COLISEUM
GREEN LANES
LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792
OS GRID 531777 188792

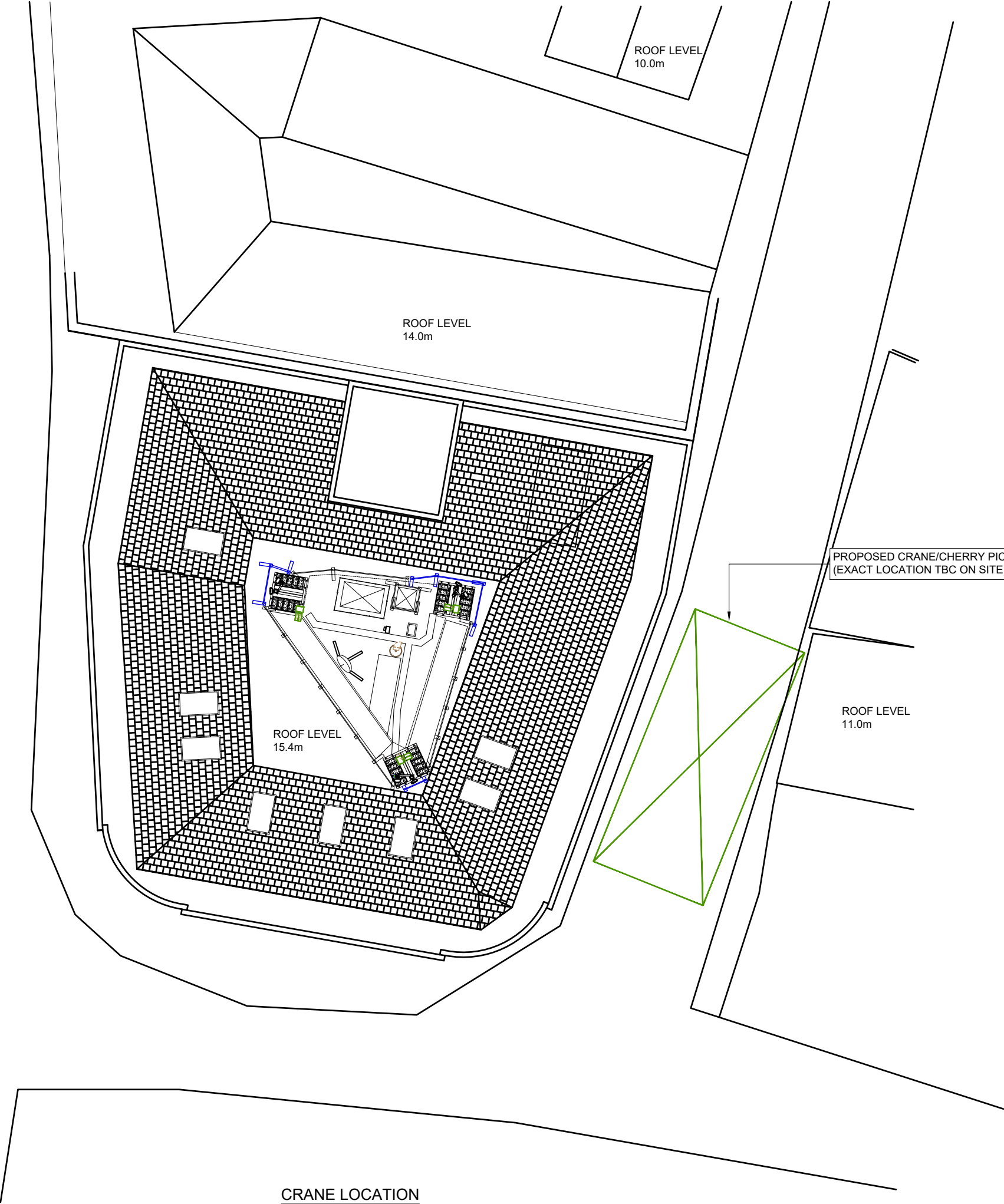
TITLE
CHERRY PICKER LOCATION
LEASE DEMISE
H3G & EE

SCALE		1:200
DRAWN	MKG	08/10/21
APPROVED	JC	08/10/21

DRG No.	Sheet 1 of 1	Rev
88406-02-004-MD001		D



CRANE LOCATION
SCALE 1:200



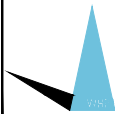
DEPENDENCY	STATUS
RF Compliance	Sector 1 - Pass - complies without control Sector 2 - Pass - complies without control Sector 3 - Pass - complies without control
Building Regulations Approval	Not required
Asbestos	Not required
Planning Conditions	TBC by Local Authority
Geotech Report	Not required
Structural Calculations	Completed
Intrusive Building Survey	Not required
Global Design Check	Pass (Arqiva Strucutres)
Rigging Survey	Not required
FIXITS	Not required
Power	Existing REC 100A supply (Arqiva).
Transmission Solution	Not required
Cooling Solution	Not required
Line of Sight Survey	Not required
Services Search	Not required
Other	Not required

THIS DESIGN COMPLIES WITH
CELLNEX ICNIRP STANDARD
UK-DE-PRO-0020-V3i

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A	PROJ No	238502			
	CONSTRUCTION		08/10/21	MKG	JC
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THE COLISEUM
GREEN LANES
LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792

OS GRID 531777 188792

TITLE
FIXIT's &
PROJECT DEPENDENCIES
H3G & EE

SCALE N/A

DRAWN	MKG	08/10/21
APPROVED	JC	08/10/21

DRG No.	Sheet 1 of 1	Rev
88406-02-006-MD001		D



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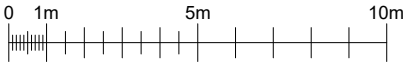
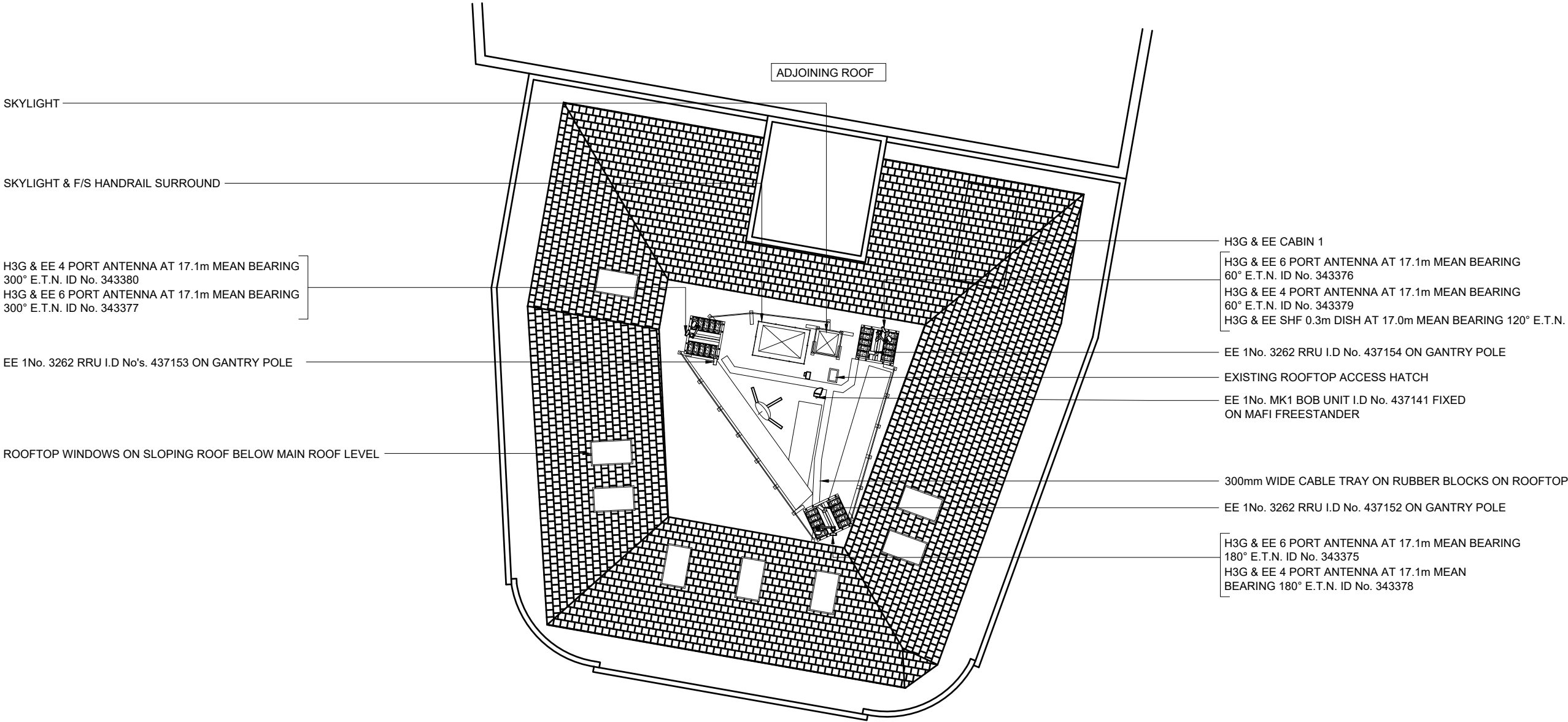
TITLE
SITE PLAN
EXISTING
H3G & EE

SCALE 1:200

DRAWN MKG 08/10/21

APPROVED JC 08/10/21

DRG No. 88406-02-100-MD001 Sheet 1 of 1 Rev D



EXISTING SITE PLAN
SCALE 1:200

EE 6No. UTV5-50 TO BE REMOVED, H3G & EE 6No. LDF78-50 FEEDERS, 6No. UTV5-50 FEEDERS & 1No. HYBRID CABLE TO BE REUSED (SUBJECT TO TESTING). PROPOSED 2No. MULTIMODE TRUNKS TO BE INSTALLED UTILISING EXISTING CABLE MANAGEMENT.



EE 1No. MK1 BOB UNIT MOUNTED ON WALL I.D No. 437140 TO BE REMOVED

PROPOSED EE 3No. MK2 BOB UNITS I.D No. 542612, 542613 & 542614 TO BE INSTALLED ON PROPOSED VERTICAL LADDER WITHIN H3G & EE EQUIPMENT ROOM

EE 1No. BTS 3900L CABINET I.D No. 715384 TO BE REMOVED

PROPOSED EE 1No. AIRI CABINET I.D No. 715392 TO BE INSTALLED WITHIN H3G & EE EQUIPMENT ROOM

H3G & EE 1No. CRABTREE POLESTAR DISTRIBUTION BOARD TO BE UPGRADED TO PROPOSED ICD11775 12WAY TP&N WITHIN H3G & EE EQUIPMENT ROOM

SKYLIGHT

SKYLIGHT & F/S HANDRAIL SURROUND

H3G & EE EQUIPMENT ROOM CABIN 1

PROPOSED FREESTANDING HANDRAILS

H3G & EE 1No. ATR4518R3 ANTENNA AT 17.1m MEAN, 300° E.T.N. I.D No. 542604

H3G & EE 1No. HBXX-3817TB ANTENNA AT 17.1m MEAN, 300° E.T.N. I.D No. 343380

PROPOSED EE 1No. 2260 18/21 ERS & 1No. 4419 2600 ERS I.D No's. 542621 & 542626 TO BE INSTALLED ON EXISTING GANTRY POLE

EE 1No. 3262 RRU I.D No's. 437153 TO BE REMOVED

EE 1No. 18/21 MHA TO BE REMOVED

PROPOSED EE 1No. MK2 BOB UNIT I.D No. 542617 TO BE INSTALLED ON EXISTING GANTRY POLE

H3G & EE 1No. ATR4518R3 ANTENNA AT 17.1m MEAN, 60° E.T.N. I.D No. 542602

H3G & EE 1No. HBXX-3817TB ANTENNA AT 17.1m MEAN, 60° E.T.N. I.D No. 343379T

H3G & EE SHF 0.3m DISH AT 17.0m MEAN BEARING 120° E.T.N.

PROPOSED EE 1No. 2260 18/21 ERS & 1No. 4419 2600 ERS I.D No's. 542618 & 542624 TO BE INSTALLED ON EXISTING GANTRY POLE

EE 1No. 3262 RRU I.D No's. 437154 TO BE REMOVED

EE 1No. 18/21 MHA TO BE REMOVED

PROPOSED EE 1No. MK2 BOB UNIT I.D No. 542615 TO BE INSTALLED ON EXISTING GANTRY POLE

PROPOSED FREESTANDING HANDRAILS

EXISTING ROOFTOP ACCESS HATCH

EE 1No. MK1 BOB UNIT I.D No. 437141 FIXED ON MAFI FREESTANDER TO BE REMOVED

H3G & EE 300mm WIDE CABLE TRAY ON RUBBER BLOCKS ON ROOFTOP

PROPOSED FREESTANDING HANDRAILS

PROPOSED EE 1No. UHF GPS NODE AT 17.9m I.D No. 542611 TO BE INSTALLED ON EXISTING SUPPORT POLE

H3G & EE 1No. ATR4518R3 ANTENNA AT 17.1m MEAN, 180° E.T.N. I.D No. 542603

H3G & EE 1No. HBXX-3817TB ANTENNA AT 17.1m MEAN, 180° E.T.N. I.D No. 343378

PROPOSED EE 1No. 2260 18/21 ERS & 1No. 4419 2600 ERS I.D No's. 542619 & 542625 TO BE INSTALLED ON EXISTING GANTRY POLE

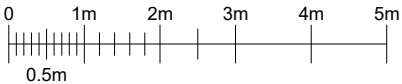
EE 1No. 3262 RRU I.D No's. 437152 TO BE REMOVED

EE 1No. 18/21 MHA TO BE REMOVED

PROPOSED EE 1No. MK2 BOB UNIT I.D No. 542616 TO BE INSTALLED ON EXISTING GANTRY POLE

PROPOSED SITE PLAN

SCALE 1:200



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ISS	REVISION	DATE	DRN	APP



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SITE No		88406	
LONDON GREEN LANES			
THE COLISEUM			
GREEN LANES			
LONDON			
GREATER LONDON 1			
N8 0RX			
NGR		TQ 31777 88792	
OS GRID		531777 188792	
TITLE			
SITE PLAN			
PROPOSED			
H3G & EE			
SCALE		1:100	
DRAWN		MKG	08/10/21
APPROVED		JC	08/10/21
DRG No.		Sheet 1 of 1	Rev
88406-02-150-MD001			D



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ISS	REVISION	DATE	DRN	APP



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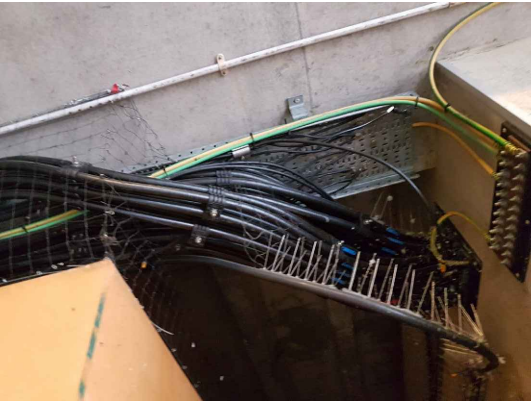
SITE No	88406
LONDON GREEN LANES THE COLISEUM GREEN LANES LONDON GREATER LONDON 1 N8 0RX	
NGR	TQ 31777 88792
OS GRID	531777 188792

TITLE
FEEDER/FIBRE ROUTE PLAN
CONSTRUCTION
H3G & EE

SCALE 1:200

DRAWN	MKG	08/10/21
APPROVED	JC	08/10/21

DRG No.	Sheet 1 of 1	Rev
88406-02-160-MD001		D



FEEDER FROM CABINET
NTS



SECTOR 1 FEEDERS TO ANTENNAS
NTS

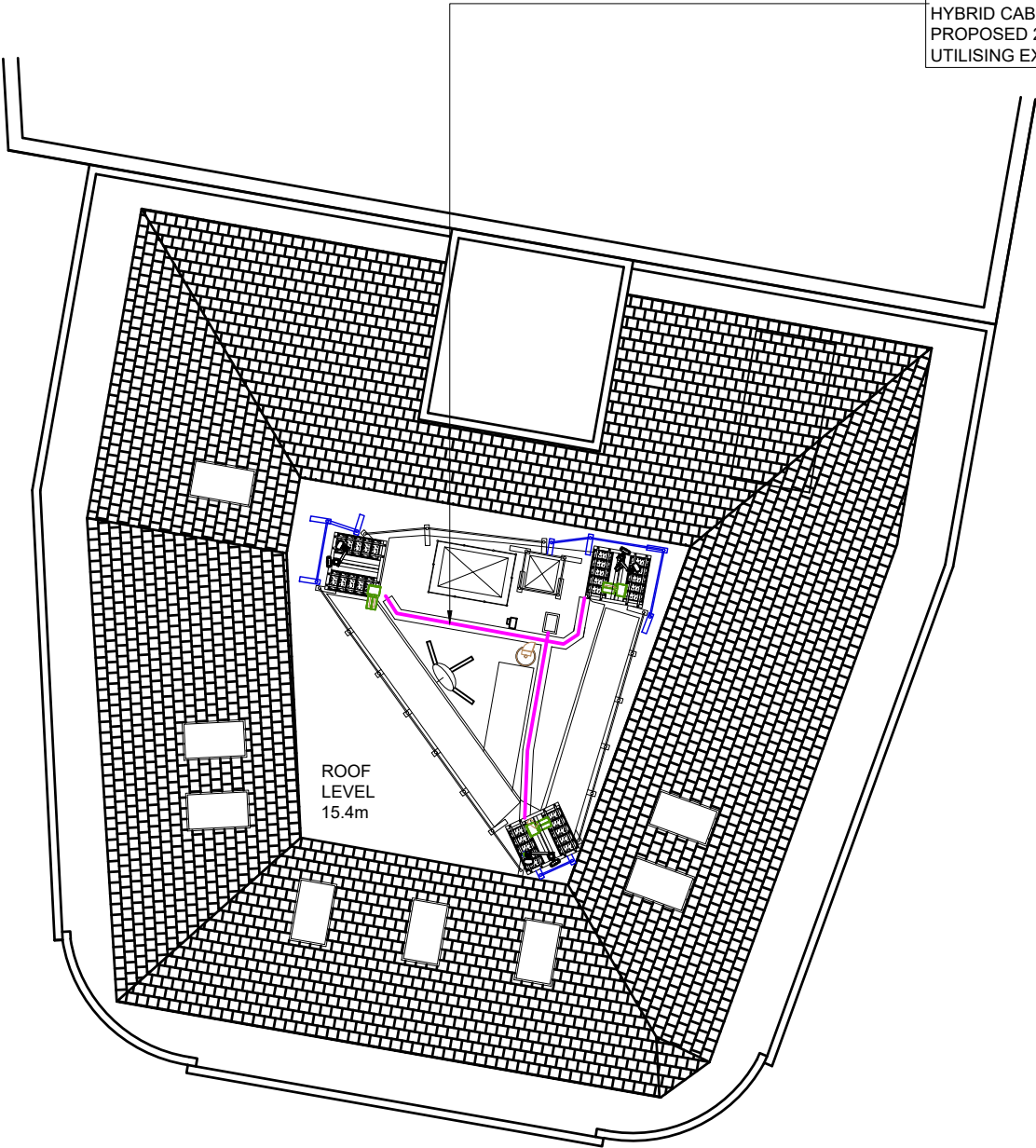


SECTOR 3 FEEDERS TO ANTENNAS
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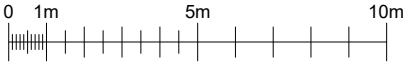


SECTOR 2 FEEDERS TO ANTENNAS
NTS

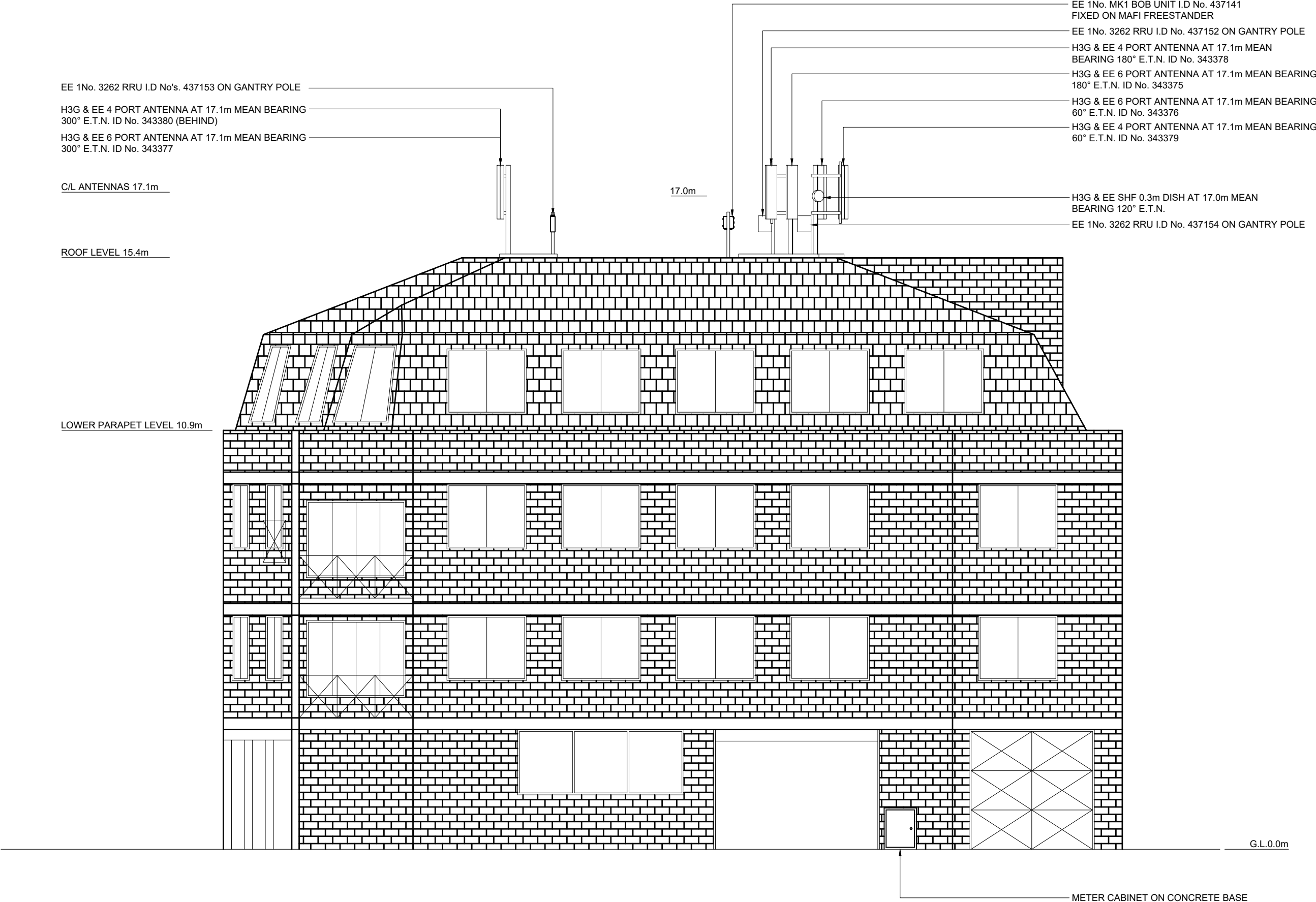
EE 6No. UTV5-50 TO BE REMOVED, H3G & EE 6No. LDF78-50 FEEDERS, 6No. UTV5-50 FEEDERS & 1No. HYBRID CABLE TO BE REUSED (SUBJECT TO TESTING). PROPOSED 2No. MULTIMODE TRUNKS TO BE INSTALLED UTILISING EXISTING CABLE MANAGEMENT.



FIBRE ROUTE PLAN
SCALE 1:200



KEY		
 PROPOSED FEEDER & FIBRE ROUTE		



EE 1No. 3262 RRU I.D No's. 437153 ON GANTRY POLE

H3G & EE 4 PORT ANTENNA AT 17.1m MEAN BEARING 300° E.T.N. ID No. 343380 (BEHIND)

H3G & EE 6 PORT ANTENNA AT 17.1m MEAN BEARING 300° E.T.N. ID No. 343377

C/L ANTENNAS 17.1m

ROOF LEVEL 15.4m

LOWER PARAPET LEVEL 10.9m

EE 1No. MK1 BOB UNIT I.D No. 437141
FIXED ON MAFI FREESTANDER

EE 1No. 3262 RRU I.D No. 437152 ON GANTRY POLE

H3G & EE 4 PORT ANTENNA AT 17.1m MEAN BEARING 180° E.T.N. ID No. 343378

H3G & EE 6 PORT ANTENNA AT 17.1m MEAN BEARING 180° E.T.N. ID No. 343375

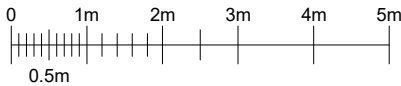
H3G & EE 6 PORT ANTENNA AT 17.1m MEAN BEARING 60° E.T.N. ID No. 343376

H3G & EE 4 PORT ANTENNA AT 17.1m MEAN BEARING 60° E.T.N. ID No. 343379

H3G & EE SHF 0.3m DISH AT 17.0m MEAN BEARING 120° E.T.N.

EE 1No. 3262 RRU I.D No. 437154 ON GANTRY POLE

EXISTING SOUTH ELEVATION
SCALE 1:100



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H3G No.	N/A



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ISS	REVISION	DATE	DRN	APP



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SITE No	88406
LONDON GREEN LANES THE COLISEUM GREEN LANES LONDON GREATER LONDON 1 N8 0RX	
NGR	TQ 31777 88792
OS GRID	531777 188792

TITLE			
SITE ELEVATION			
EXISTING			
H3G & EE			
SCALE 1:100			
DRAWN		MKG	08/10/21
APPROVED		JC	08/10/21
DRG No.		Sheet 1 of 1	Rev
88406-02-200-MD001			D

EE 6No. UTV5-50 TO BE REMOVED, H3G & EE 6No. LDF78-50 FEEDERS, 6No. UTV5-50 FEEDERS & 1No. HYBRID CABLE TO BE REUSED (SUBJECT TO TESTING). PROPOSED 2No. MULTIMODE TRUNKS TO BE INSTALLED UTILISING EXISTING CABLE MANAGEMENT.

H3G & EE 1No. ATR4518R3 ANTENNA AT 17.1m MEAN, 270° E.T.N. I.D No. 542604

H3G & EE 1No. HBXX-3817TB ANTENNA AT 17.1m MEAN, 270/330° E.T.N. I.D. No. 343380

PROPOSED EE 1No. 2260 18/21 ERS & 1No. 4419 2600 ERS I.D No's. 542621 & 542626 TO BE INSTALLED ON EXISTING GANTRY POLE

EE 1No. 3262 RRU I.D No's. 437153 TO BE REMOVED

EE 1No. 18/21 MHA TO BE REMOVED

PROPOSED EE 1No. MK2 BOB UNIT I.D 542617 TO BE INSTALLED ON EXISTING GANTRY POLE

H3G & EE 1No. ATR4518R3 ANTENNA AT 17.1m MEAN, 30° E.T.N. I.D No. 542602
H3G & EE 1No. HBXX-3817TB ANTENNA AT 17.1m MEAN, 30/90° E.T.N. I.D No. 343379
H3G & EE SHF 0.3m DISH AT 17.0m MEAN BEARING 120° E.T.N.

PROPOSED EE 1No. 2260 18/21 ERS & 1No. 4419 2600 ERS I.D No's. 542618 & 542624 TO BE INSTALLED ON EXISTING GANTRY POLE

EE 1No. 3262 RRU I.D No's. 437154 TO BE REMOVED

EE 1No. 18/21 MHA TO BE REMOVED

PROPOSED EE 1No. MK2 BOB UNIT I.D 542616 TO BE INSTALLED ON EXISTING GANTRY POLE

PROPOSED EE 1No. UHF GPS NODE AT 17.9m I.D No. 542611 TO BE INSTALLED ON EXISTING SUPPORT POLE

H3G & EE 1No. ATR4518R3 ANTENNA AT 17.1m MEAN, 150° E.T.N. I.D No. 542603

H3G & EE 1No. HBXX-3817TB ANTENNA AT 17.1m MEAN, 150/210° E.T.N. I.D No. 343378

PROPOSED EE 1No. 2260 18/21 ERS & 1No. 4419 2600 ERS I.D No's. 542619 & 542625 TO BE INSTALLED ON EXISTING GANTRY POLE

EE 1No. 3262 RRU I.D No's. 437152 TO BE REMOVED

EE 1No. 18/21 MHA TO BE REMOVED

PROPOSED EE 1No. MK2 BOB UNIT I.D No. 542615 TO BE INSTALLED ON EXISTING GANTRY POLE

LOWER PARAPET LEVEL 10.9m

ROOF LEVEL 15.4m

C/L ANTENNAS 17.1m

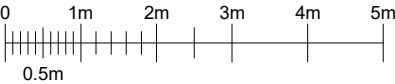
17.9m

17.0m

G.L 0.0m

METER CABINET ON CONCRETE BASE

PROPOSED SOUTH ELEVATION
SCALE 1:100



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TITLE SITE ELEVATION PROPOSED H3G & EE		
SCALE 1:100		
DRAWN	MKG	08/10/21
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DRG No.	Sheet 1 of 1	Rev
88406-02-250-MD001		D



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NGR TQ 31777 88792

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TITLE
EQUIPMENT LAYOUT
CONSTRUCTION
H3G & EE

SCALE 1:25

DRAWN MKG 08/10/21

APPROVED JC 08/10/21

DRG No.	Sheet 1 of 1	Rev
88406-02-300-MD001		D

H3G 1No. IFS5906 RACK

2No. WALL MOUNTED A/C UNITS AT HIGH LEVEL

H3G & EE 1No. ELTEK EF2S -48V PSU CABINET
C/W 5No. 2KW RECTIFIERS

300mm WIDE HIGH LEVEL CABLE TRAY

H3G & EE 1No. FURI CABINETS (2100)
C/W FLEXI UNITS & MK2 UCU's

H3G & EE 6No. 2100 LOW LEVEL COMBINERS
& MK2 UCU

H3G & EE 1No. FURI CABINETS (2100)
C/W FLEXI UNITS & MK2 UCU's

PROPOSED EE 3No. MK2 BOB UNITS I.D No.
542612, 542613 & 542614 TO BE INSTALLED
ON PROPOSED VERTICAL LADDER

H3G & EE 1No. CRABTREE POLESTAR
DISTRIBUTION BOARD TO BE UPGRADED
TO PROPOSED ICD11775 12WAY TP&N

H3G & EE 1No. 46u TX RACK

FEEDER EXIT AT HIGH LEVEL

EE 1No. MK1 BOB UNIT MOUNTED ON
WALL I.D No. 437140 TO BE REMOVED

SMART METER

EE 1No. BTS 3900L CABINET I.D
No. 715384 TO BE REMOVED

PROPOSED 1No. VERTIV M35 PSU c/w
7No. 2KW RECTIFIERS TO BE INSTALLED

PROPOSED EE 1No. AIRI CABINET
I.D No. 715392 TO BE INSTALLED

H3G & EE EQUIPMENT ROOM
SCALE 1:25



NOTES

PROJECT No.	238502
MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



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	PROJ No			
D	PROJ No	238502		
	BEARINGS UPDATE	26/10/23	JC	JC
C	PROJ No	238502		
	CONFIG STEP DOWN	06/10/23	WHT	JC
B	PROJ No	238502		
	MAJOR AMENDMENT	22/08/23	SMY	JC
A	PROJ No	238502		
	CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP



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SITE No 88406
LONDON GREEN LANES
THE COLISEUM
GREEN LANES
LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792

OS GRID 531777 188792

TITLE
ANTENNA PLANS
CONSTRUCTION
H3G & EE

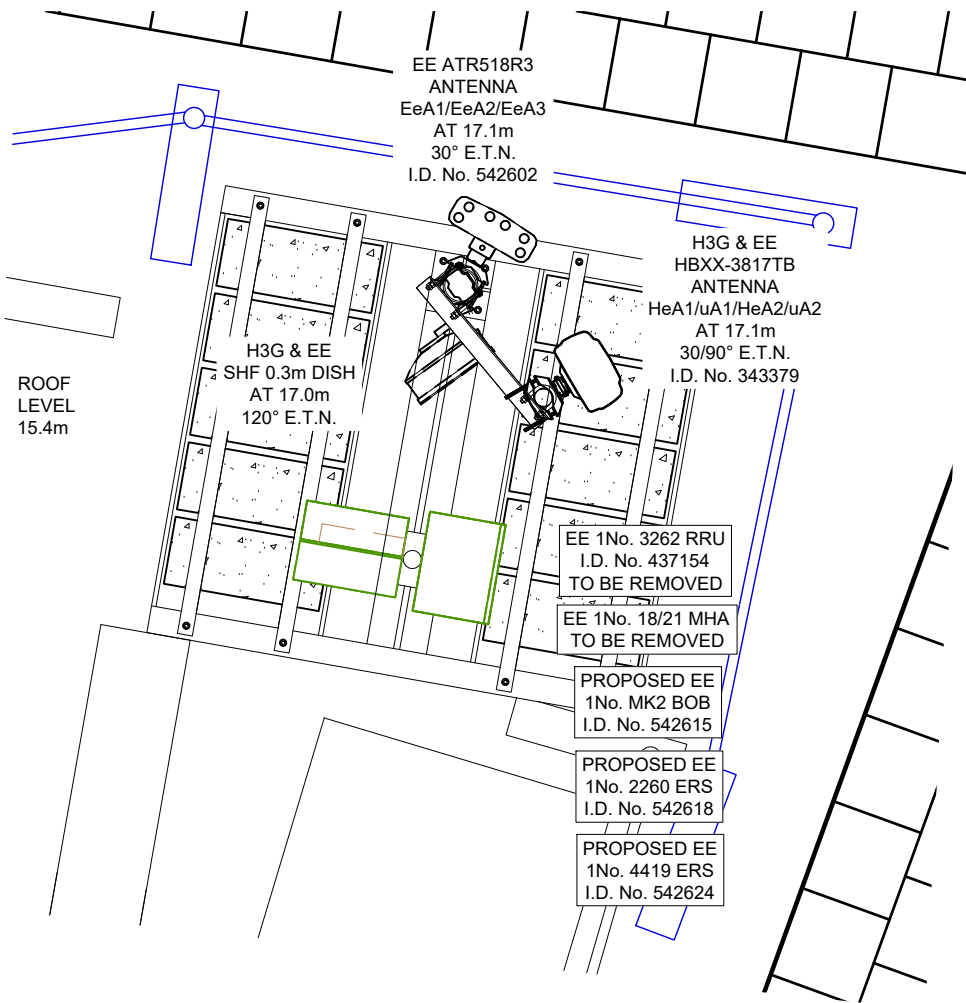
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DRAWN MKG 08/10/21

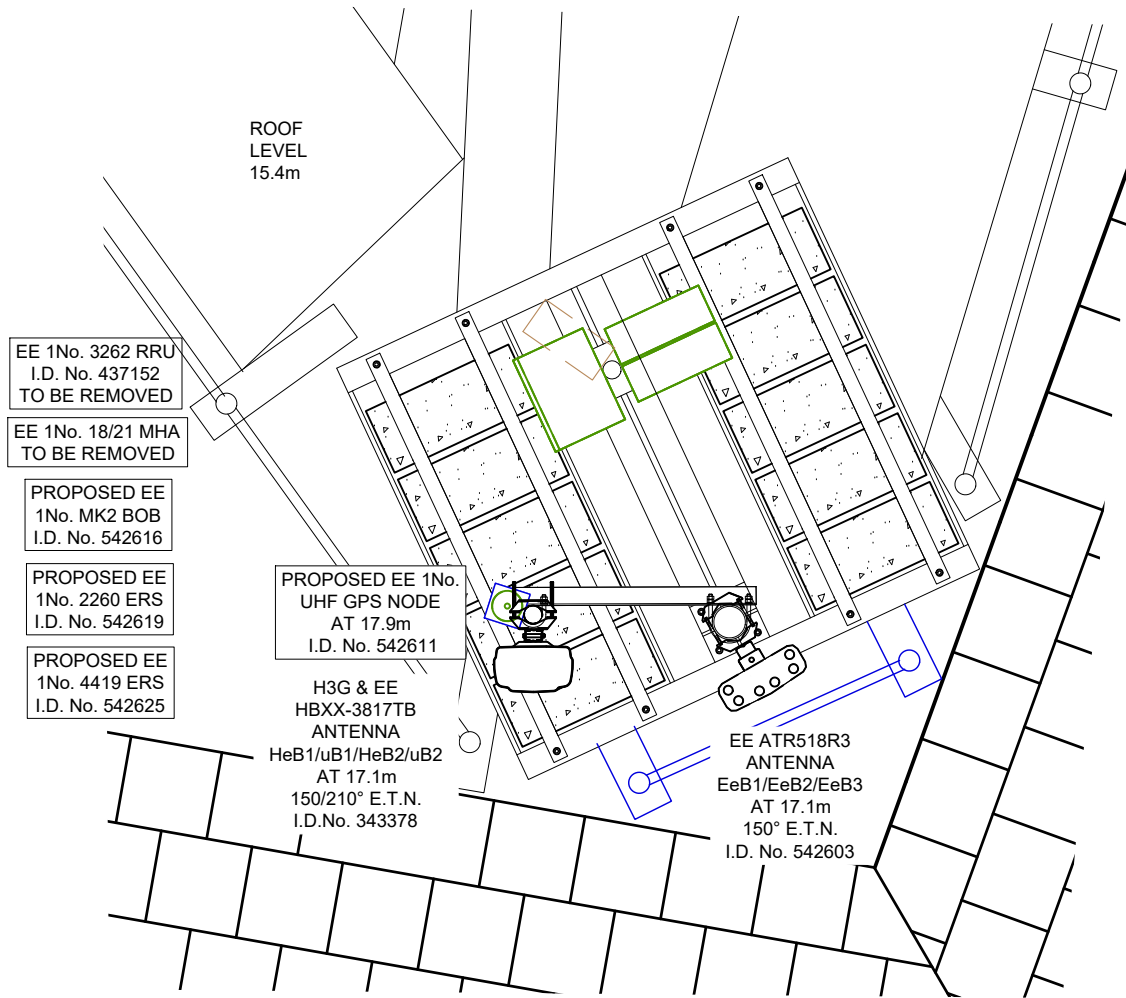
APPROVED JC 08/10/21

DRG No. Sheet 1 of 1 Rev

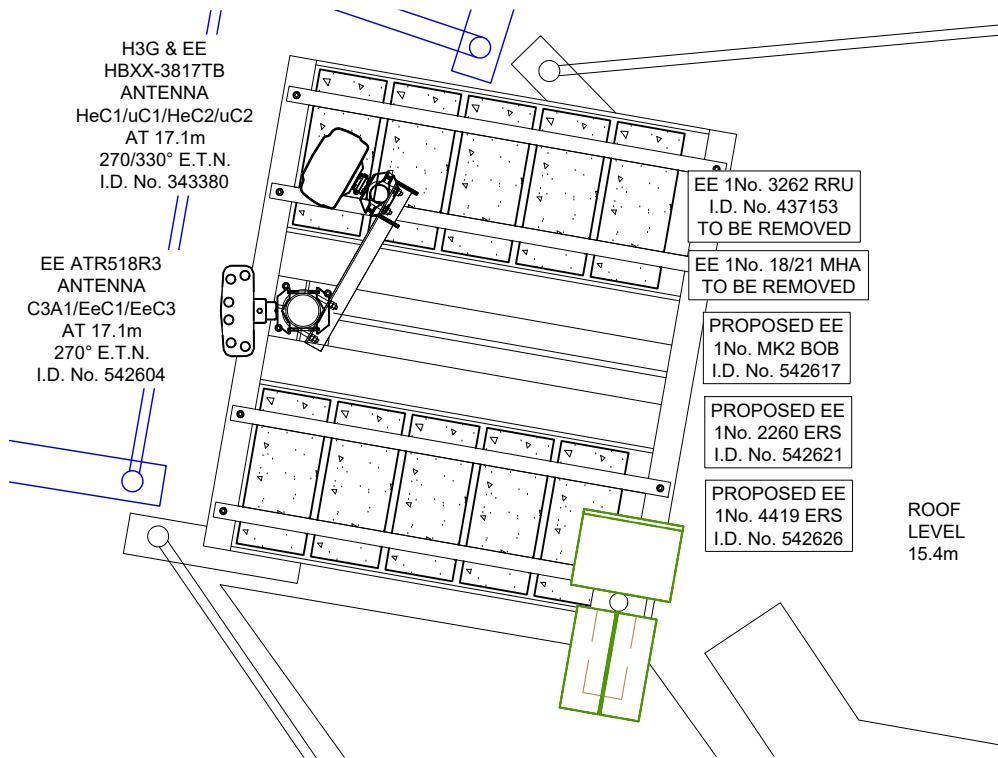
88406-02-310-MD001 D



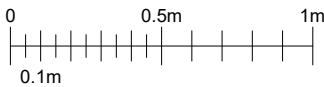
ANTENNA PLAN SECTOR 1 AT 20.0m
SCALE 1:25



ANTENNA PLAN SECTOR 2 AT 19.0m
SCALE 1:25



ANTENNA PLAN SECTOR 3 AT 19.0m
SCALE 1:25



NOTES

PROJECT No. 238502

MBNL No. HGY002

T-UK No. 60428

H3G No. N/A

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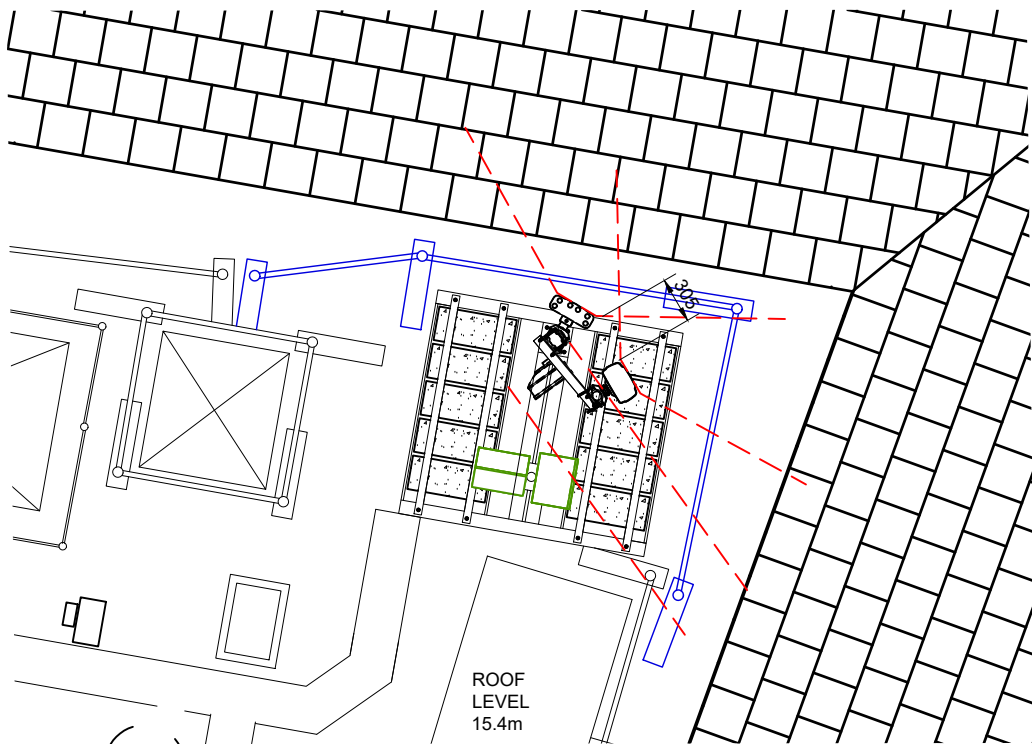
OS GRID 531777 188792

TITLE
ANTENNA SPLAYS
CONSTRUCTION
H3G & EE

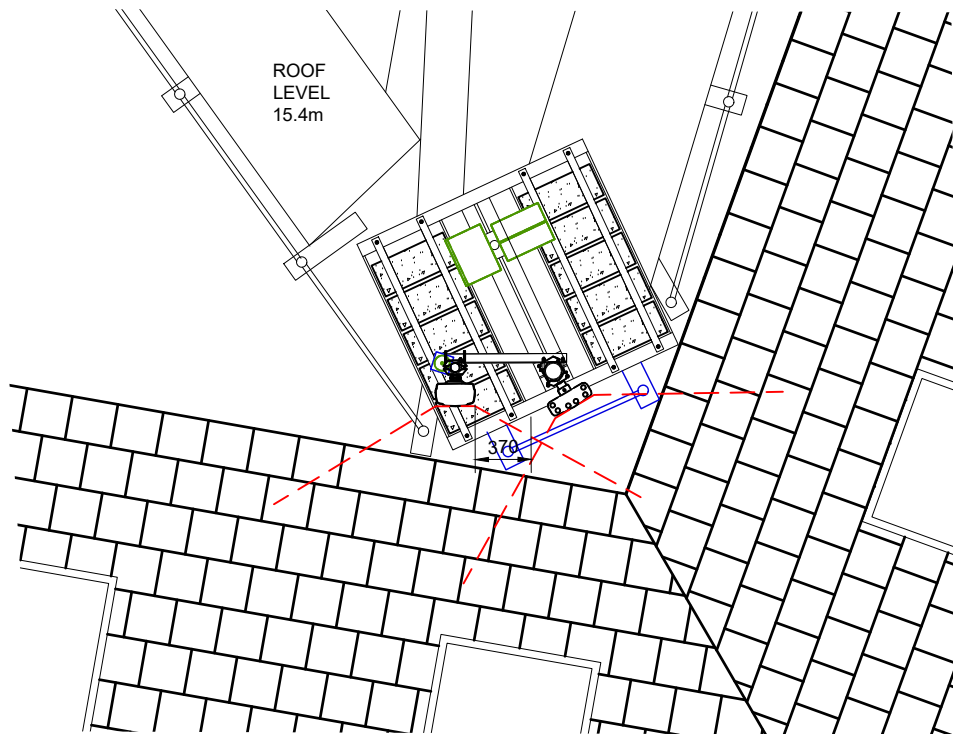
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DRAWN	MKG	08/10/21
APPROVED	JC	08/10/21

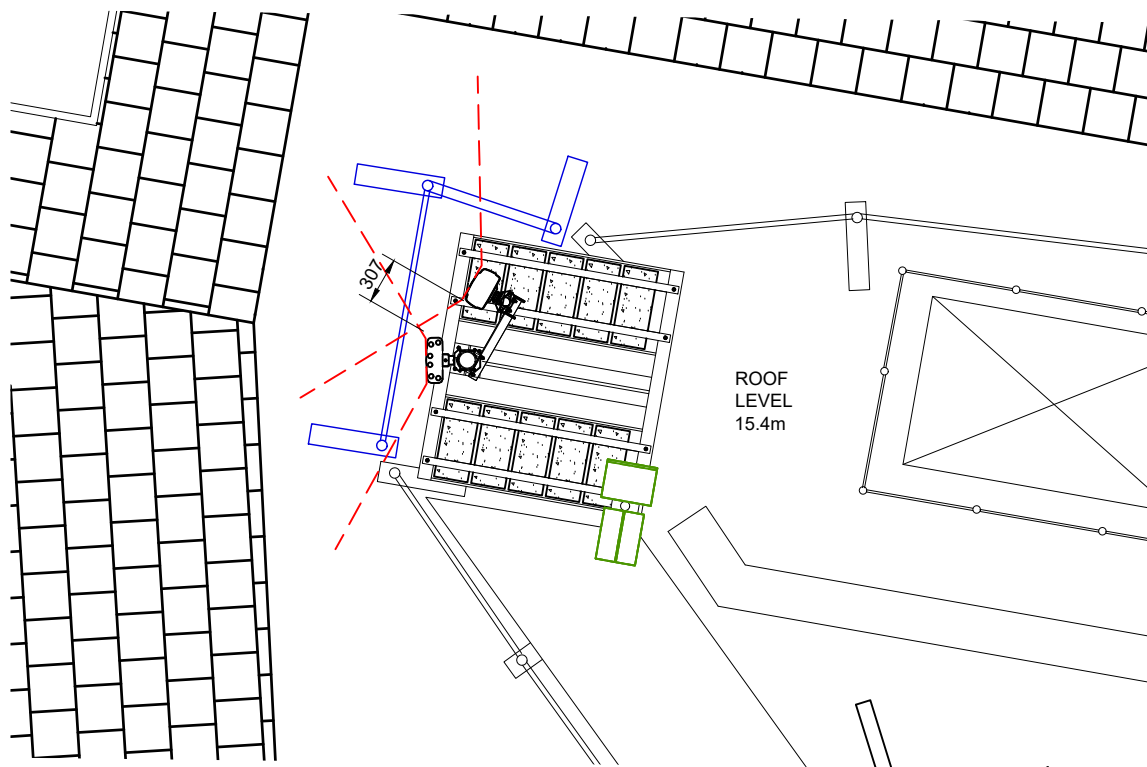
DRG No.	Sheet 1 of 1	Rev
88406-02-311-MD001		D



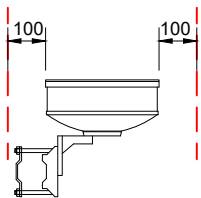
ANTENNA SPLAY PLAN SECTOR 1 AT 17.1m
SCALE 1:50



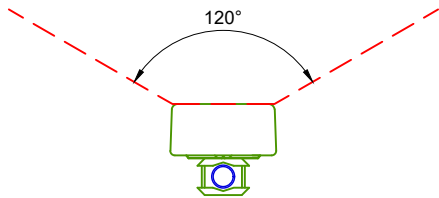
ANTENNA SPLAY PLAN SECTOR 2 AT 17.1m
SCALE 1:50



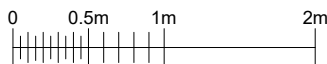
ANTENNA SPLAY PLAN SECTOR 3 AT 17.1m
SCALE 1:50



TYPICAL DISH SPLAY
NTS



TYPICAL ANTENNA SPLAY
NTS



ANTENNA DETAILS																								
ID No.	OPERATOR	FUNCTION	BEARING	MEAN HEIGHT	ANTENNA TYPE/SIZE	No. OF PORTS	RET/ VET	MAIN FEEDER TYPE	FEEDER QTY	FEEDER LENGTH	FEEDER BTM TAIL LENGTH	MAIN FEEDER BTM TAIL TYPE	MAIN FEEDER TOP TAIL LENGTH	MAIN FEEDER TOP TAIL TYPE	TOTAL FEEDER LENGTH	DC/FIBRE QTY & LENGTH	DC/FIBRE TOP JUMPERS	DC/FIBRE BOTTOM TAILS	RRU	MHA TYPE	DIPLEXERS LOW	DIPLEXERS HIGH	RRH/RRU JUMPER LENGTH	OVERALL SYSTEM LOSS
343379	HeA1/uA1	1800/2100	30/90° E.T.N	17.1m	HBXX-3817TB	4	RET	UTV 5-50	2	30.0m	6 x 2.0m	LDF4-50	2 x 3.0m	LDF4-50	35.0m	-	-	-	-	18/21	2100	-	-	-2.263
	HeA2uA2	1800/2100					RET	LCF78-50	2	30.0m	6 x 2.0m	LDF4-50	2 x 3.0m	LDF4-50	35.0m		-	-	-	18/21	2100	-	-	-2.473
343378	HeB1/uB1	1800/2100	150/210° E.T.N	17.1m	HBXX-3817TB	4	RET	UTV 5-50	2	35.0m	6 x 2.0m	LDF4-50	2 x 3.0m	LDF4-50	40.0m	-	-	-	-	18/21	2100	-	-	-2.263
	HeB2/uB2	1800/2100					RET	LCF78-50	2	35.0m	6 x 2.0m	LDF4-50	2 x 3.0m	LDF4-50	40.0m		-	-	-	18/21	2100	-	-	-2.473
343380	HeC1/uC1	1800/2100	270/330° E.T.N	17.1m	HBXX-3817TB	4	RET	UTV 5-50	2	30.0m	6 x 2.0m	LDF4-50	2 x 3.0m	LDF4-50	35.0m	-	-	-	-	18/21	2100	-	-	-2.263
	HeC2/uC2	1800/2100					RET	LCF78-50	2	30.0m	6 x 2.0m	LDF4-50	2 x 3.0m	LDF4-50	35.0m		-	-	-	18/21	2100	-	-	-2.473
ANTENNA DETAILS (PRE UPGRADE)																								
ID No.	OPERATOR	FUNCTION	BEARING	MEAN HEIGHT	ANTENNA TYPE/SIZE	No. OF PORTS	RET/ VET	MAIN FEEDER TYPE	FEEDER QTY	FEEDER LENGTH	FEEDER BTM TAIL LENGTH	MAIN FEEDER BTM TAIL TYPE	MAIN FEEDER TOP TAIL LENGTH	MAIN FEEDER TOP TAIL TYPE	TOTAL FEEDER LENGTH	DC/FIBRE QTY & LENGTH	DC/FIBRE TOP JUMPERS	DC/FIBRE BOTTOM TAILS	RRU	MHA TYPE	DIPLEXERS LOW	DIPLEXERS HIGH	RRH/RRU JUMPER LENGTH	OVERALL SYSTEM LOSS
542602	C1A1/EeA1	1800	30° E.T.N	17.1m	ATR4518R3	6	RET	UTV 5-50	2	30.0m	2 x 2.0m	LDF4-50	2 x 3.0m	LDF4-50	35.0m	1No. 35.0m HYBRID CABLE	-	-	-	1800	-	-	-	-
	-	SPARE					-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
	EeA3	2600					-	-	-	-	-	-	-	-	-		2.0m	5.0m	2600	-	-	-	2 x 5.0m	-
542603	C2A1/EeB1	1800	150° E.T.N	17.1m	ATR4518R3	6	RET	UTV 5-50	2	35.0m	2 x 2.0m	LDF4-50	2 x 3.0m	LDF4-50	40.0m		-	-	-	1800	-	-	-	-
	-	SPARE					-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	
	EeB3	2600					-	-	-	-	-	-	-	-	-		2.0m	4.0m	2600	-	-	-	2 x 4.0m	-
542604	C3A1/EeC1	1800	270° E.T.N	17.1m	ATR4518R3	6	RET	UTV 5-50	2	30.0m	2 x 2.0m	LDF4-50	2 x 3.0m	LDF4-50	35.0m		-	-	-	1800	-	-	-	-
	-	SPARE					-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	
	EeC3	2600					-	-	-	-	-	-	-	-	-		2.0m	4.0m	2600	-	-	-	2 x 4.0m	-



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NOTES

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MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



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C	PROJ No	238502	06/10/23	WHT
	CONFIG STEP DOWN			
B	PROJ No	238502	22/08/23	SMY
	MAJOR AMENDMENT			
A	PROJ No	238502	08/10/21	MKG
	CONSTRUCTION			
ISS	REVISION	DATE	DRN	APP



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SITE No

88406

LONDON GREEN LANES

THE COLISEUM

GREEN LANES

LONDON

GREATER LONDON 1

N8 0RX

NGR

TQ 31777 88792

OS GRID

531777 188792

TITLE

ANTENNA SCHEDULE

EXISTING

H3G & EE

SCALE

N/A

DRAWN

MKG

08/10/21

APPROVED

JC

08/10/21

DRG No.

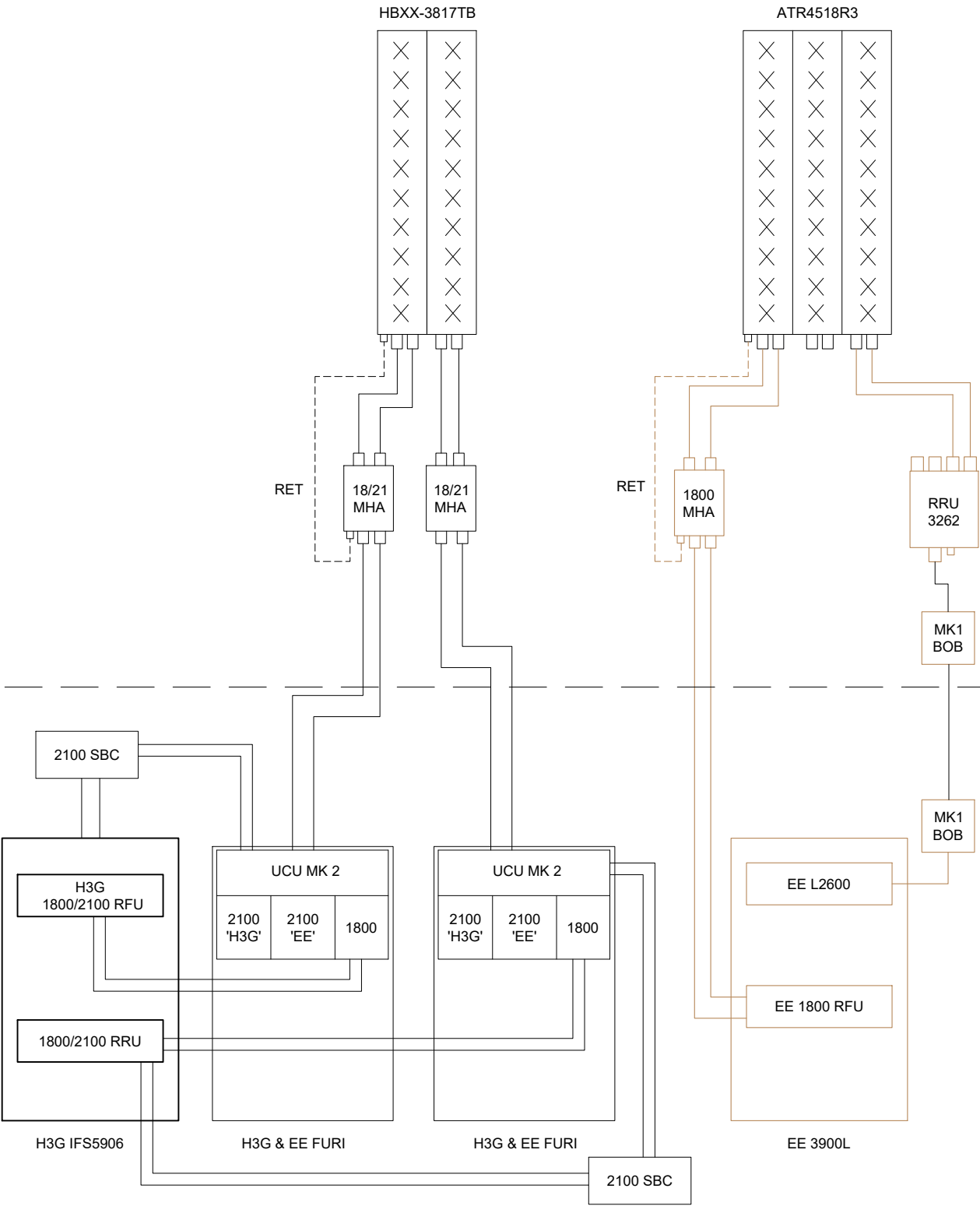
Sheet 1 of 1

Rev

88406-02-320-MD001

D

ANTENNA LEVEL
GROUND LEVEL



FEINT DETAILS INDICATE LOCATIONS
RESERVED FOR OTHER PROPOSALS
WHICH MAY BE THE SUBJECT OF
SEPARATE APPLICATIONS

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A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP



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SITE No			88406
LONDON GREEN LANES			
THE COLISEUM			
GREEN LANES			
LONDON			
GREATER LONDON 1			
N8 0RX			
NGR		TQ 31777 88792	
OS GRID		531777 188792	
TITLE			
ANTENNA LINE CONFIG			
EXISTING			
H3G & EE			
SCALE		N/A	
DRAWN		MKG	08/10/21
APPROVED		JC	08/10/21

DRG No.	Sheet 1 of 1	Rev
88406-02-325-MD001		D

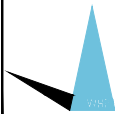
ANTENNA DETAILS (POST UPGRADE)																											
ID No.	OPERATOR	FUNCTION	BEARING	MEAN HEIGHT	ANTENNA TYPE/SIZE	No. OF PORTS	RET/ VET	MAIN FEEDER TYPE	FEEDER QTY	FEEDER LENGTH	FEEDER BTM TAIL LENGTH	MAIN FEEDER BTM TAIL TYPE	MAIN FEEDER TOP TAIL LENGTH	MAIN FEEDER TOP TAIL TYPE	TOTAL FEEDER LENGTH	DC/FIBRE QTY & LENGTH	DC/FIBRE TOP JUMPERS	DC/FIBRE BOTTOM TAILS	RRU	MHA TYPE	DIPLEXERS LOW	DIPLEXERS HIGH	RRH/RRU JUMPER LENGTH	OVERALL SYSTEM LOSS			
542602	EeA1	1800/2100	30° E.T.N	17.1m	ATR4518R3	6	-	-	-	-	-	-	-	-	-	1No. 35.0m HYBRID CABLE & 2No. PROPOSED HYBRID CABLES 40.0m	2.0m	5.0m	2260	-	-	-	2 x 5.0m	-			
	EeA2	2600					-	-	-	-	-	-	-	-	2.0m		5.0m	4419	-	-	-	2 x 5.0m	-				
	EeA3	2600					-	-	-	-	-	-	-	-					-	-	-		-				
542603	EeB1	1800/2100	150° E.T.N	17.1m	ATR4518R3	6	-	-	-	-	-	-	-	-	-		1No. 35.0m HYBRID CABLE & 2No. PROPOSED HYBRID CABLES 40.0m	2.0m	4.0m	2260	-	-	-	2 x 4.0m	-		
	EeB2	2600					-	-	-	-	-	-	-	-	-			2.0m	4.0m	4419	-	-	-	2 x 4.0m	-		
	EeB2	2600					-	-	-	-	-	-	-	-	-						-	-	-		-		
542604	EeC1	1800/2100	270° E.T.N	17.1m	ATR4518R3	6	-	-	-	-	-	-	-	-	-			1No. 35.0m HYBRID CABLE & 2No. PROPOSED HYBRID CABLES 40.0m	2.0m	4.0m	2260	-	-	-	2 x 4.0m	-	
	EeC2	2600					-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-
	EeC2	2600					-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-
EE 6No. UTV5-50 TO BE REMOVED, H3G & EE 6No. LDF78-50 FEEDERS, 6No. UTV5-50 FEEDERS & 1No. HYBRID CABLE TO BE REUSED (SUBJECT TO TESTING). PROPOSED 2No. MULTIMODE TRUNKS TO BE INSTALLED																											



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H3G No.	N/A



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	CONSTRUCTION				
ISS	REVISION	DATE	DRN	APP	



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TQ 31777 88792

OS GRID

531777 188792

TITLE

ANTENNA SCHEDULE

PROPOSED

H3G & EE

SCALE

N/A

DRAWN

MKG

08/10/21

APPROVED

JC

08/10/21

DRG No.

Sheet 1 of 1

Rev

88406-02-330-MD001

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The diagram illustrates the proposed antenna schematic, divided into two main levels: ANTENNA LEVEL and GROUND LEVEL, separated by a dashed line.

ANTENNA LEVEL:

- HBXX-3817TB:** A vertical antenna array with 18 ports (9x2).
- ATR4518R3:** A vertical antenna array with 18 ports (6x3).
- RET (Remote Equipment Terminal):** Indicated by dashed lines connecting the antenna arrays to the ground-level equipment.
- 18/21 MHA (Main Hub Assembly):** Two units connected to the HBXX-3817TB array.
- 2260 1800/2100 RRU (Remote Radio Unit):** Connected to the ATR4518R3 array.
- 4419 2600 RRU (Remote Radio Unit):** Connected to the ATR4518R3 array.
- Mk2 BOB (Baseband On Board):** A unit connected to the 2260 RRU and the 4419 RRU.

GROUND LEVEL:

- 2100 SBC (Service Base Controller):** Two units, one connected to the HBXX-3817TB array and the other to the ATR4518R3 array.
- H3G 1800/2100 RFU (Radio Frequency Unit):** Connected to the 2100 SBC.
- 1800/2100 RRU (Remote Radio Unit):** Connected to the H3G RFU.
- UCU MK 2 (Universal Control Unit):** Two units, each connected to the 1800/2100 RRU and the 2100 SBC.
- H3G & EE FURI (Fiber User Interface):** Two units, each connected to the UCU MK 2.
- Mk2 BOB (Baseband On Board):** A unit connected to the 2260 RRU and the 4419 RRU.
- DC DISTRIBUTION:** A unit connected to the Mk2 BOB.
- FIBRE MANAGEMENT (1800/2100/2600):** A unit connected to the Mk2 BOB.
- EE 6648 BASE BAND:** A unit connected to the FIBRE MANAGEMENT.
- EE 6620 BASE BAND:** A unit connected to the FIBRE MANAGEMENT.
- EE AIRI CABINET:** A cabinet housing the EE 6648 and EE 6620 Base Band units.

FEINT DETAILS INDICATE LOCATIONS RESERVED FOR OTHER PROPOSALS WHICH MAY BE THE SUBJECT OF SEPARATE APPLICATIONS

NOTES



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TITLE
ANTENNA LINE CONFIG
PROPOSED
H3G & EE

DRG No.	Sheet 1 of 1	Rev
88406-02-335-MD001		D

NOTES

SUPPORT STRUCTURE SCHEDULE										
STRUCTURE ID	STATUS	EQUIPMENT DESCRIPTION/TYPE	STRUCTURE MANUFACTURER	HEIGHT AGL(M)	COLOUR (RAL COLOUR)	HEADFRAME DETAILS	FOUNDATION/ SUPPORT GRILLAGE /HOST STRUCTURE DETAILS	SUPPORT BOLT DETAILS	MBNL REF:	COMMENTS
ST1	EXISTING	TRIPOD POLE	RTS	-	GALV	-	-	-	-	-

POWER SCHEDULE					
SUPPLY STATUS	TYPE	SUPPLIER	SUPPLY TYPE	LOCATION	COMMENTS
EXISTING	3 PHASE	REC	100A	METER CABINET	ARQUIVA SUPPLY

EQUIPMENT SCHEDULE													
EQUIPMENT ID	QUANTITY	STATUS	EQUIPMENT DESCRIPTION / TYPE	EQUIPMENT MANUFACTURER	DIMENSIONS (W x D x H)	WEIGHT (Kg)	COLOUR (RAL COLOUR)	MATERIAL	LOCATION	POWER	POWER CABLE LENGTH (m)	MBNL REF:	COMMENTS
CAB1	01	INSTALLED	IFS5906	HUAWEI	-	100Kg	GREY	***	INDOOR	DC	5.0m	***	-
CAB2	01	INSTALLED	EF2S PSU	ELTEK	600x480x1200	100Kg	GREY	***	INDOOR	AC	4.5m	***	-
CAB3	01	INSTALLED	TX RACK	-	600x500x2100	100Kg	GREY	***	INDOOR	DC	2.0m	***	-
CAB4	02	INSTALLED	FURI/FLEXI UNITS	NOKIA	600x550x1975	100Kg	GREY	***	INDOOR	AC	3.0m	***	-
CAB5	01	INSTALLED	BTS 3900L	HUAWEI	600x480x1600	100Kg	GREY	***	INDOOR	DC	3.0m	***	REMOVED
CAB6	01	PROPOSED	AIRI CABINET	ERICSSON	600x750x2100	100Kg	GREY	***	INDOOR	DC	7.0m	***	PROPOSED
CAB7	01	PROPOSED	M35 PSU	VERTIV	600x480x1200	100Kg	GREY	***	INDOOR	AC	7.0m	***	PROPOSED

ANTENNA LINE EQUIPMENT SCHEDULE										
EQUIPMENT ID	QUANTITY	STATUS	EQUIPMENT DESCRIPTION / TYPE	EQUIPMENT MANUFACTURER	DIMENSIONS (W x D x H)	WEIGHT (Kg)	COLOUR (RAL COLOUR)	MATERIAL	LOCATION	COMMENTS
MHA1-3	3	INSTALLED	1800/2100 MHA	-	227x56x225	-	GREY	STEEL	ANTENNA LOCATION	REMAIN
MHA4-6	3	INSTALLED	1800/2100 MHA	-	227x56x225	-	GREY	STEEL	ANTENNA LOCATION	REMAIN
MHA7-9	3	INSTALLED	1800 MHA	-	227x56x225	-	GREY	STEEL	ANTENNA LOCATION	TO BE REMOVED
RRU1-3	3	INSTALLED	2600 RRU	-	-	-	GREY	STEEL	F/S FRAME	TO BE REMOVED
RRH1-3	3	PROPOSED	ERS 2260	-	-	-	GREY	STEEL	F/S FRAME	TO BE INSTALLED
RRH4-6	3	PROPOSED	ERS 4419	-	-	-	GREY	STEEL	F/S FRAME	TO BE INSTALLED
BT1	3	INSTALLED	Mk1 BOB	COMMSCOPE	-	-	GREY	STEEL	UNISTRUT FRAME	1No. TOP, Mk1 BOB TO BE REMOVED
BB1	3	INSTALLED	Mk1 BOB	COMMSCOPE	-	-	GREY	STEEL	UNISTRUT FRAME	1No. BOTTOM, Mk1 BOB TO BE REMOVED
BT1-3	3	PROPOSED	Mk2 BOB	COMMSCOPE	-	-	GREY	STEEL	ANTENNA LOCATION	3No. TOP, Mk2 BOB
BB1-3	3	PROPOSED	Mk2 BOB	COMMSCOPE	-	-	GREY	STEEL	CABIN	3No. BOTTOM, Mk2 BOB
GPS1	1	PROPOSED	EE GPS NODE	ERICSSON	95Øx72.5	0.6kg	GREY	PLASTIC	POLE MOUNTED S2	AYOM GNSS RECEIVER c/w FYGC POLE MOUNT BRACKET

PROJECT No.	238502
MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



WHP Telecoms
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	PROJ No			
D	PROJ No 238502 BEARINGS UPDATE	26/10/23	JC	JC
C	PROJ No 238502 CONFIG STEP DOWN	06/10/23	WHT	JC
B	PROJ No 238502 MAJOR AMENDMENT	22/08/23	SMY	JC
A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP



CELLNEX UK
R+, 4TH FLOOR, 2 BLA GRAVE STREET, READING, RG1 1AZ
Tel. 020 4526 8553

SITE No 88406
LONDON GREEN LANES
THE COLISEUM
GREEN LANES
LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792

OS GRID 531777 188792

TITLE
EQUIPMENT SCHEDULES &
SUPPORT STUCTURE DETAILS
H3G & EE

SCALE N/A

DRAWN MKG 08/10/21

APPROVED JC 08/10/21

DRG No. 88406-02-400-MD001

Sheet 1 of 1

Rev D

DISH DETAILS								
ID No.	ITEM	TYPE / SIZE	BEARING	MEAN HEIGHT	FEEDER LENGTH	FEEDER TYPE	No. OF FEEDERS	No. OF REMOTE ODU's
-	D1	SHF 0.3m HP DISH	120° E.T.N.	17.0m	35.0m	LDF4-50	1	0

PROPOSED EE GPS DETAILS					
I.D. No.	TYPE / SIZE	MEAN HEIGHT	FEEDER LENGTH	FEEDER TYPE	No. OF FEEDERS
542611	UHF GPS NODE	17.9m	-	-	1

NOTES

PROJECT No.	238502
MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



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	PROJ No				
D	PROJ No 238502				
	BEARINGS UPDATE	26/10/22	JC	JC	
C	PROJ No 238502				
	CONFIG STEP DOWN	06/10/22	WHT	JC	
B	PROJ No 238502				
	MAJOR AMENDMENT	22/08/22	SMY	JC	
A	PROJ No 238502				
	CONSTRUCTION	08/10/21	MKG	JC	
ISS	REVISION	DATE	DRN	APP	



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Tel. 020 4526 8553

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LONDON GREEN LANES
THE COLISEUM
GREEN LANES
LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792

OS GRID 531777 188792

TITLE
TRANSMISSION DISH, FIBRE &
GPS SCHEDULES
H3G & EE

SCALE N/A

DRAWN MKG 08/10/21

APPROVED JC 08/10/21

DRG No. Sheet 1 of 1 Rev
88406-02-401-MD001 D

AREA OF OCCUPATIONAL
NON-COMPLIANCE

AREA OF PUBLIC
NON-COMPLIANCE

THIS DESIGN COMPLIES WITH
CELLNEX ICNIRP STANDARD
RUL_UK_004 v1.1

NOTE:
SECTOR (30/90): OCCUPATIONAL: PASS, PUBLIC: PASS
SECTOR (150/210): OCCUPATIONAL: PASS, PUBLIC: PASS
SECTOR (270/330): OCCUPATIONAL: PASS, PUBLIC: PASS
SITE REVIEWED BY DREEVESH GOOHEERAM AND
VALIDATED BY CRAIG JENNINGS, (25/10/2022).



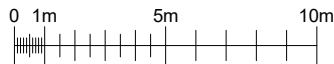
ROOF LEVEL
11.0m

ROOF LEVEL
14.0m

ROOF LEVEL
10.0m

ROOF LEVEL
11.0m

ROOF LEVEL
15.4m



ICNIRP PLAN
SCALE 1:250

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NOTES

PROJECT No.	238502
MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A

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	PROJ No			
D	PROJ No 238502 BEARINGS UPDATE	26/10/23	JC	JC
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B	PROJ No 238502 MAJOR AMENDMENT	22/08/23	SMY	JC
A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP

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Tel. 020 4526 8553

SITE No 88406
LONDON GREEN LANES
THE COLISEUM
GREEN LANES
LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792
OS GRID 531777 188792

TITLE
RF COMPLIANCE
SITE PLAN
PROPOSED

SCALE 1:250		
DRAWN	MKG	08/10/21
APPROVED	JC	08/10/21

DRG No.	Sheet 1 of 1	Rev
88406-02-500-MD001		D

AREA OF OCCUPATIONAL
NON-COMPLIANCE

AREA OF PUBLIC
NON-COMPLIANCE

NOTE:
SECTOR (30/90): OCCUPATIONAL: PASS, PUBLIC: PASS
SECTOR (150/210): OCCUPATIONAL: PASS, PUBLIC: PASS
SECTOR (270/330): OCCUPATIONAL: PASS, PUBLIC: PASS
SITE REVIEWED BY DREEVESH GOOHEERAM AND
VALIDATED BY CRAIG JENNINGS, (25/10/2022).

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RUL_UK_004 v1.1

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MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A

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	PROJ No			
D	PROJ No 238502 BEARINGS UPDATE	26/10/22	JC	JC
C	PROJ No 238502 CONFIG STEP DOWN	06/10/22	WHT	JC
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A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP



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SITE No 88406
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THE COLISEUM
GREEN LANES
LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792

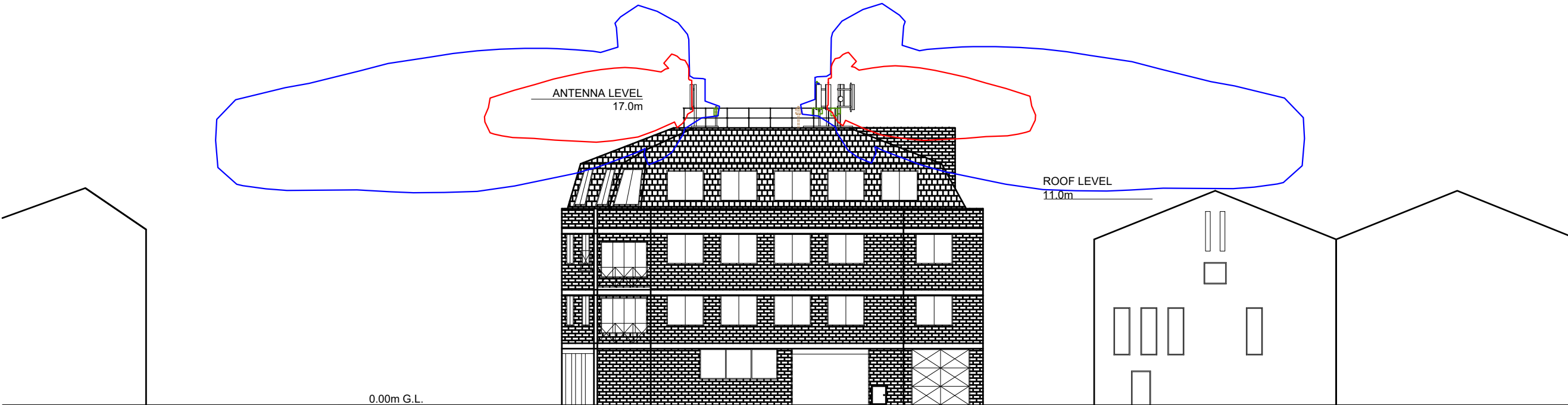
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TITLE
RF COMPLIANCE
ELEVATION
PROPOSED

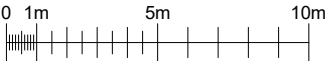
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APPROVED	JC	08/10/21

DRG No.	Sheet 1 of 1	Rev
88406-02-510-MD001		D

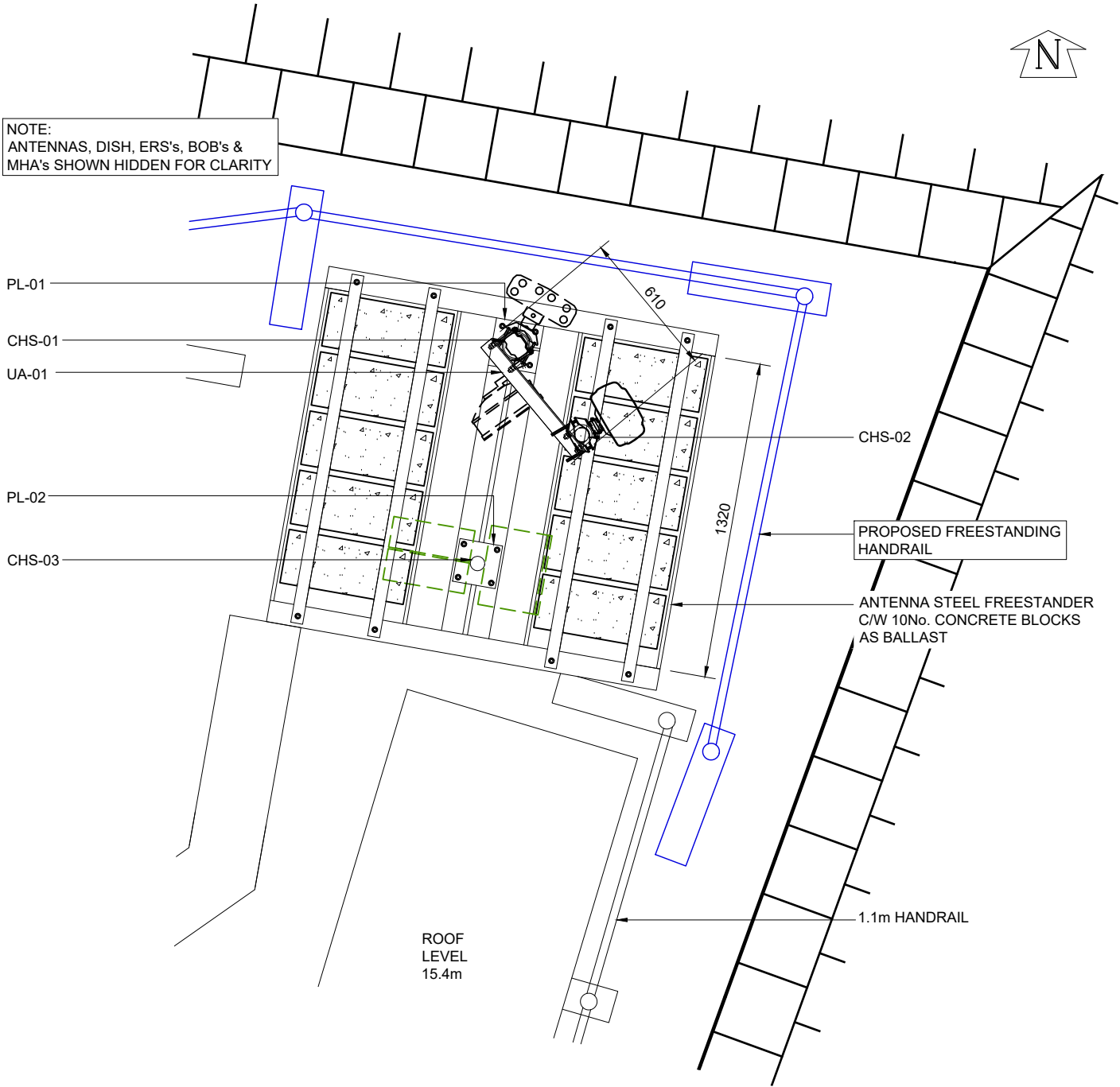


ICNIRP SOUTH ELEVATION
SCALE 1:250

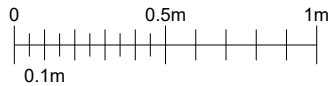


EXISTING SECTOR 1 STEELWORK	
DWG REF	ITEM
CHS-01	CHS114.3Øx5mm, 2.31m LONG PRIMARY SUPPORT POLE
CHS-02	CHS60.3Øx3mm, 1.6m LONG SUPPORT POLE
CHS-03	CHS RRU GANTRY POLE, SIZE TBD
UA-01	UA60x90x5, 610mm LONG STAND-OFF BRACKET
PL-01	200x200x8mm THK MILD STEEL PLATE
PL-02	MILD STEEL PLATE WELDED TO CHS-03, SIZE TBD

NOTE:
ANTENNAS, DISH, ERS's, BOB's &
MHA's SHOWN HIDDEN FOR CLARITY

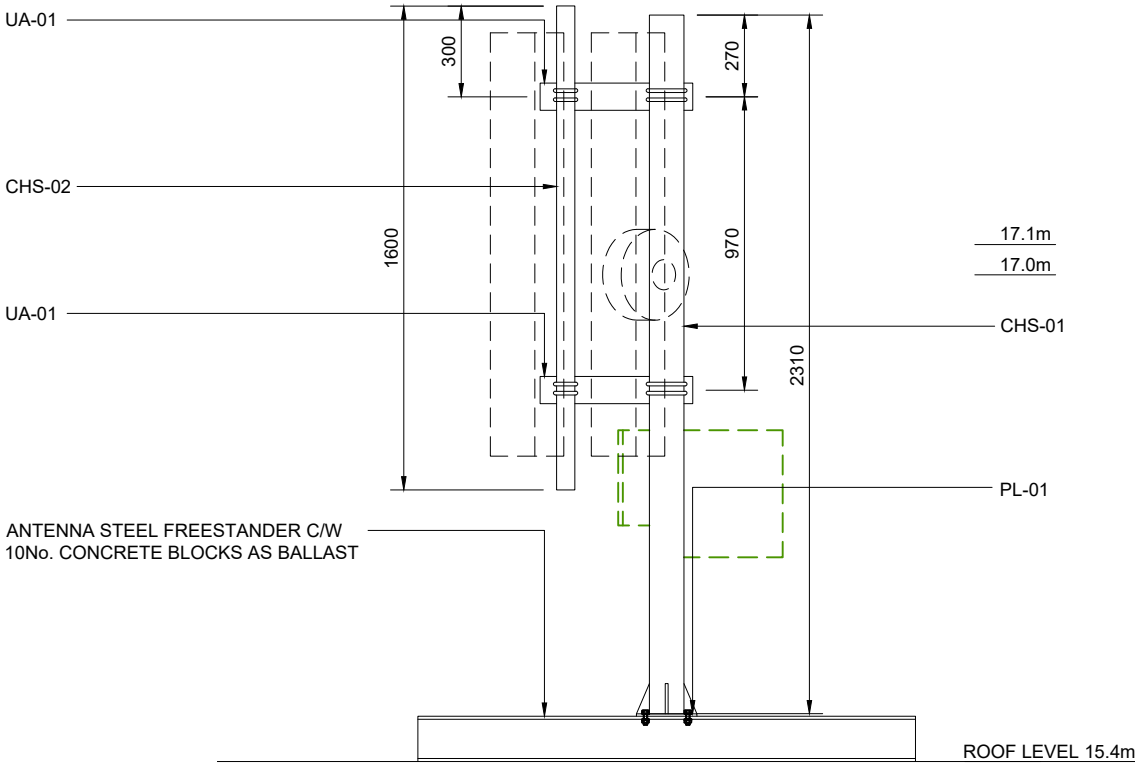


SECTOR 1 STEELWORK PLAN
SCALE 1:25



NOTE:
ANTENNAS, DISH, ERS's, BOB's & MHA's
SHOWN HIDDEN FOR CLARITY

NOTE:
HANDRAILS OMITTED FOR CLARITY



SECTOR 1 STEELWORK ELEVATION
SCALE 1:25

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NOTES

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MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



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PROJ No				
D	PROJ No 238502 BEARINGS UPDATE	26/10/23	JC	JC
C	PROJ No 238502 CONFIG STEP DOWN	06/10/23	WHT	JC
B	PROJ No 238502 MAJOR AMENDMENT	22/08/22	SMY	JC
A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP



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SITE No		88406	
LONDON GREEN LANES			
THE COLISEUM			
GREEN LANES			
LONDON			
GREATER LONDON 1			
N8 0RX			
NGR		TQ 31777 88792	
OS GRID		531777 188792	
TITLE			
STEELWORK DETAIL			
EXISTING			
H3G & EE LTD			
SCALE		1:25	
DRAWN		MKG	08/10/21
APPROVED		JC	08/10/21
DRG No.		Sheet 1 of 3	Rev
88406-02-600-MD001			D

EXISTING SECTOR 2 STEELWORK

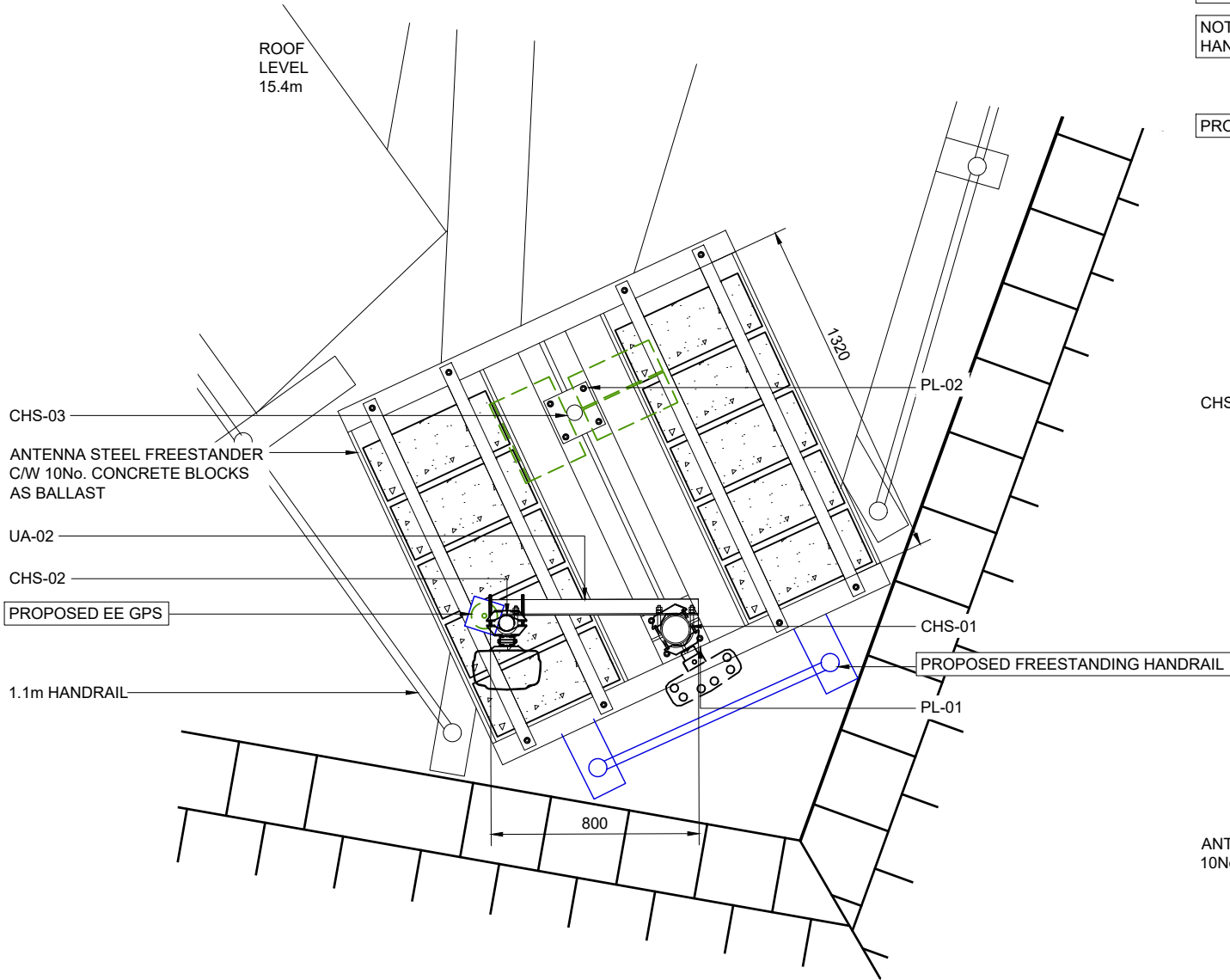
DWG REF	ITEM
CHS-01	CHS114.3Øx5mm, 2.31m LONG PRIMARY SUPPORT POLE
CHS-02	CHS60.3Øx3mm, 1.6m LONG SUPPORT POLE
CHS-03	CHS RRU GANTRY POLE, SIZE TBD
UA-02	UA60x90x5, 800mm LONG STAND-OFF BRACKET
PL-01	200x200x8mm THK MILD STEEL PLATE
PL-02	MILD STEEL PLATE WELDED TO CHS-03, SIZE TBD

NOTE:
ANTENNAS, ERS's, BOB's & MHA's
SHOWN HIDDEN FOR CLARITY

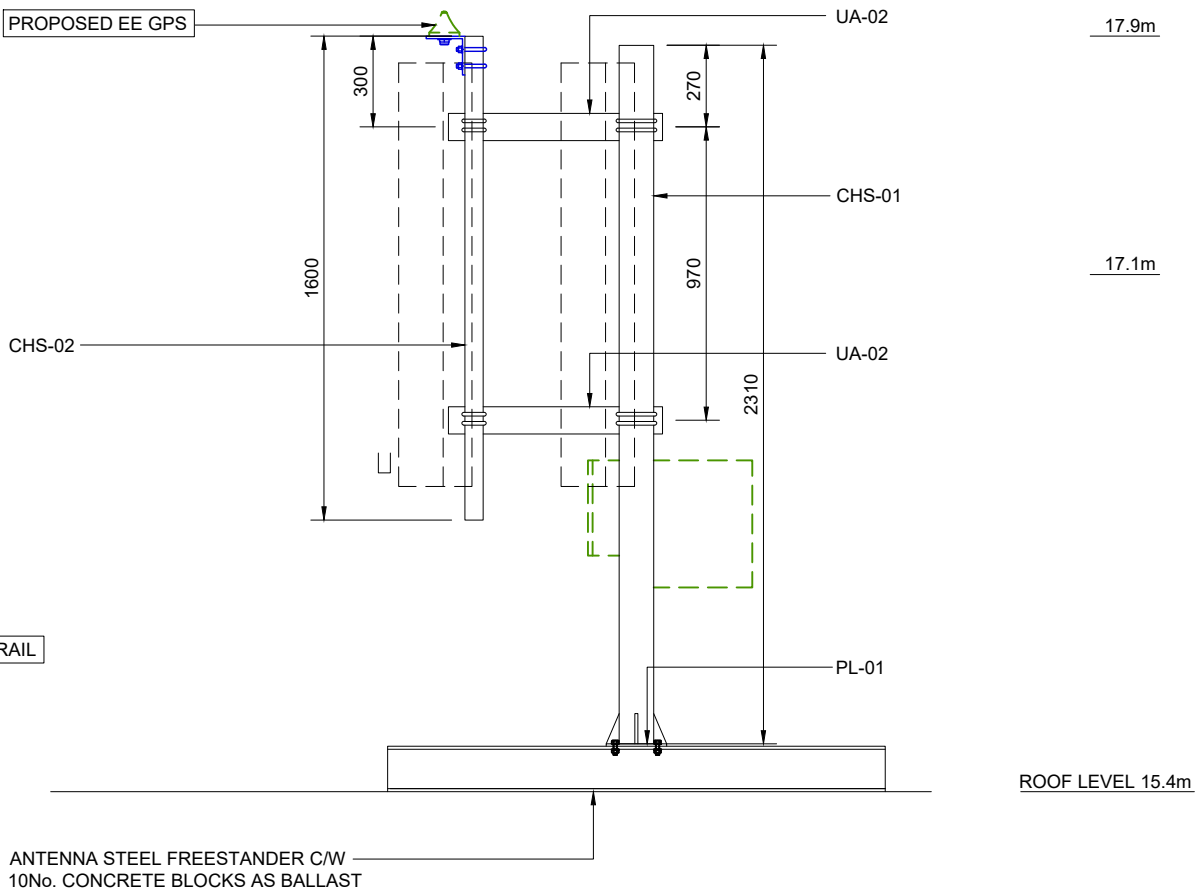


NOTE:
ANTENNAS, ERS's, BOB's & MHA's
SHOWN HIDDEN FOR CLARITY

NOTE:
HANDRAILS OMITTED FOR CLARITY



SECTOR 2 STEELWORK PLAN
SCALE 1:25



SECTOR 2 STEELWORK ELEVATION
SCALE 1:25

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NOTES

PROJECT No.	238502
MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



PROJ No			
PROJ No	238502		
D	BEARINGS UPDATE	26/10/22	JC JC
C	CONFIG STEP DOWN	06/10/22	WHT JC
B	MAJOR AMENDMENT	22/08/22	SMY JC
A	CONSTRUCTION	08/10/21	MKG JC
ISS	REVISION	DATE	DRN APP

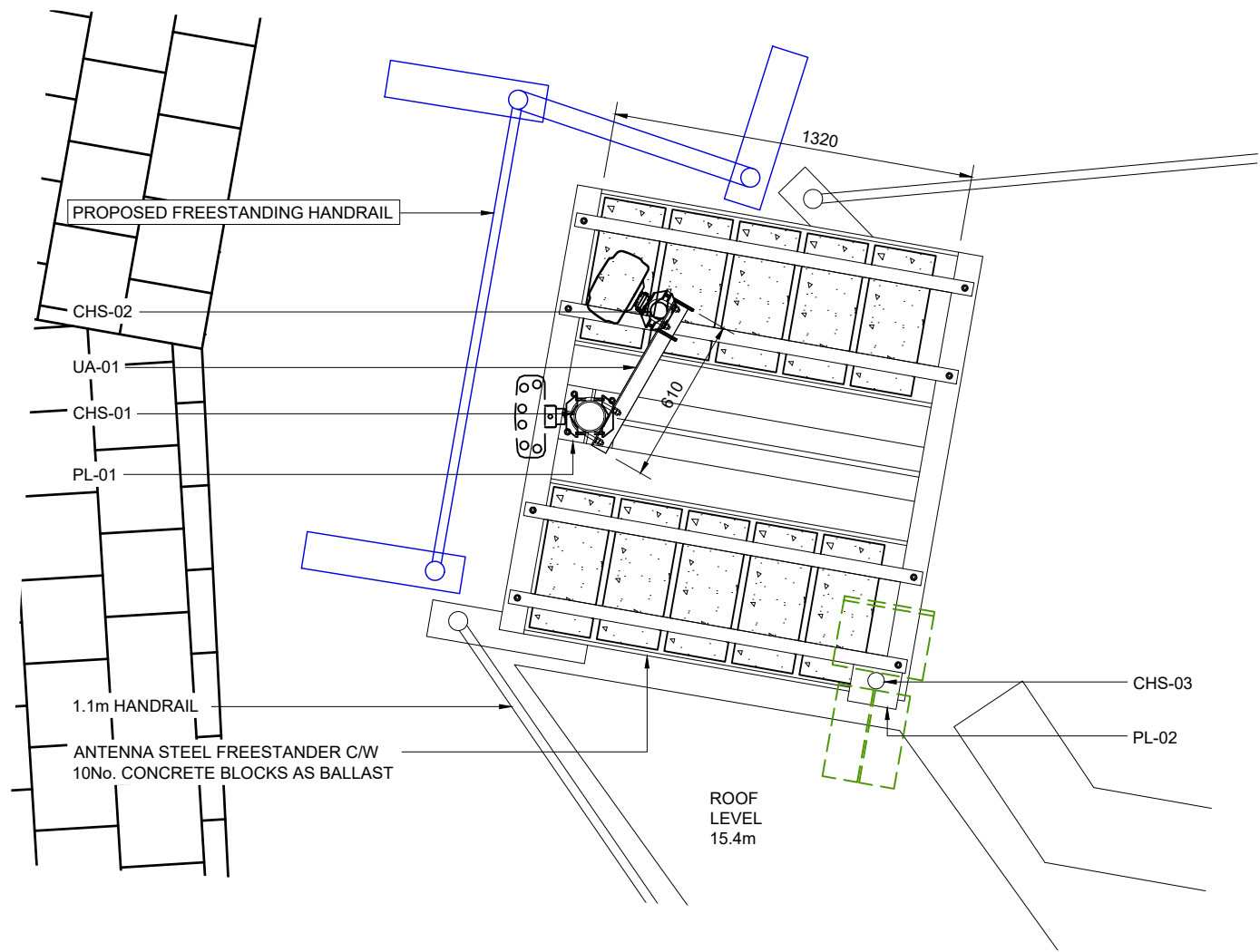


SITE No	88406
LONDON GREEN LANES	
THE COLISEUM	
GREEN LANES	
LONDON	
GREATER LONDON 1	
N8 ORX	
NGR	TQ 31777 88792
OS GRID	531777 188792

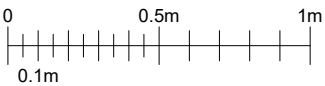
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STEELWORK DETAIL			
EXISTING			
H3G & EE LTD			
SCALE 1:25			
DRAWN		MKG	08/10/21
APPROVED		JC	08/10/21
DRG No.		Sheet 2 of 3	Rev
88406-02-601-MD001			D

EXISTING SECTOR 3 STEELWORK	
DWG REF	ITEM
CHS-01	CHS114.3Øx5mm, 2.31m LONG PRIMARY SUPPORT POLE
CHS-02	CHS60.3Øx3mm, 1.6m LONG SUPPORT POLE
CHS-03	CHS RRU GANTRY POLE, SIZE TBD
UA-01	UA60x90x5, 610mm LONG STAND-OFF BRACKET
PL-01	200x200x8mm THK MILD STEEL PLATE
PL-02	MILD STEEL PLATE WELDED TO CHS-03, SIZE TBD

NOTE:
ANTENNAS, ERS's, BOB's & MHA's
SHOWN HIDDEN FOR CLARITY

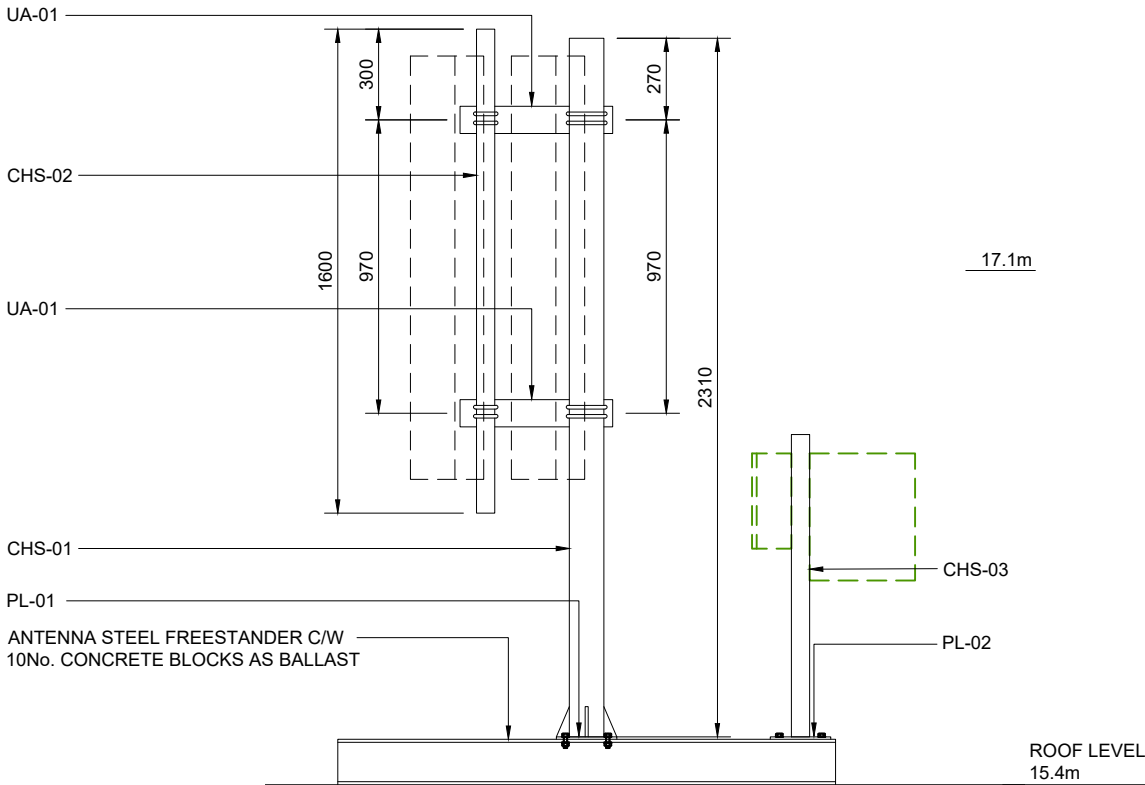


SECTOR 3 STEELWORK PLAN
SCALE 1:25



NOTE:
ANTENNAS, ERS's, BOB's & MHA's
SHOWN HIDDEN FOR CLARITY

NOTE:
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SECTOR 3 STEELWORK ELEVATION
SCALE 1:25

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PROJECT No.	238502
MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



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PROJ No			
PROJ No	238502		
D	BEARINGS UPDATE	26/10/22	JC JC
C	PROJ No 238502 CONFIG STEP DOWN	06/10/22	WHT JC
B	PROJ No 238502 MAJOR AMENDMENT	22/08/22	SMY JC
A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG JC
ISS	REVISION	DATE	DRN APP



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SITE No **88406**
LONDON GREEN LANES
THE COLISEUM
GREEN LANES
LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792
OS GRID 531777 188792

TITLE
STEELWORK DETAIL
EXISTING
H3G & EE LTD

SCALE 1:25

DRAWN	MKG	08/10/21
APPROVED	JC	08/10/21

DRG No.	Sheet 3 of 3	Rev
88406-02-602-MD001		D

NOTES

PROJECT No. 238502

MBNL No. HGY002

T-UK No. 60428

H3G No. N/A



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	PROJ No			
	PROJ No	238502		
D	BEARINGS UPDATE	26/10/22	JC	JC
C	PROJ No	238502		
	CONFIG STEP DOWN	06/10/22	WHT	JC
B	PROJ No	238502		
	MAJOR AMENDMENT	22/08/22	SMY	JC
A	PROJ No	238502		
	CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP



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SITE No 88406
LONDON GREEN LANES
THE COLISEUM
GREEN LANES
LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792

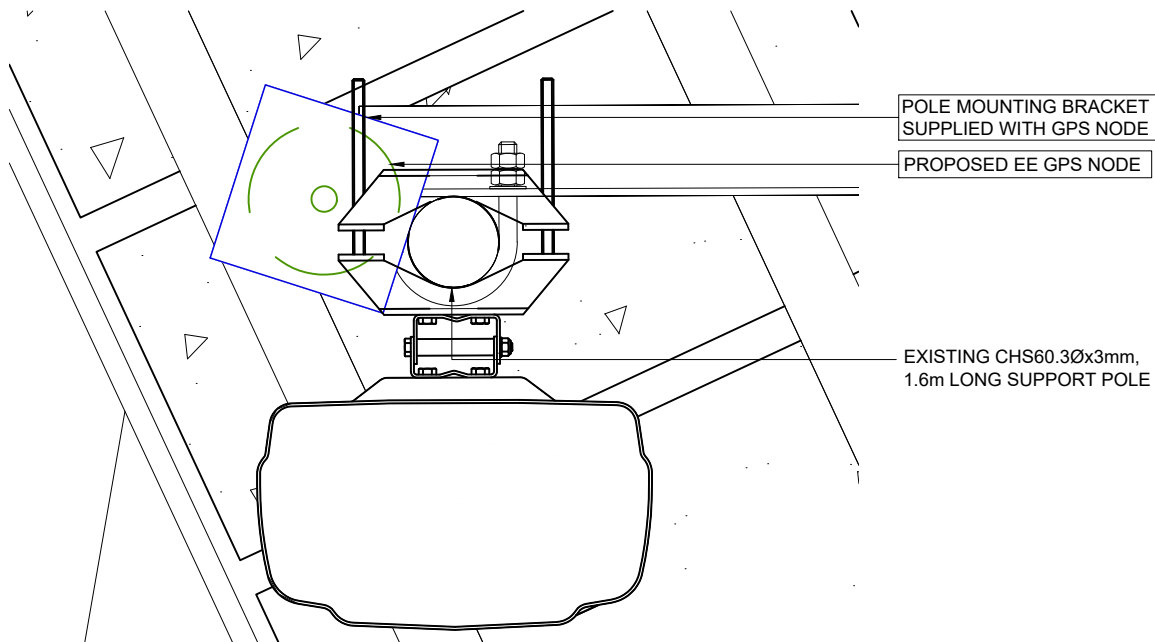
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TITLE
GPS FIXING DETAIL
CONSTRUCTION
H3G & EE LTD

SCALE 1:5

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APPROVED	JC	08/10/21

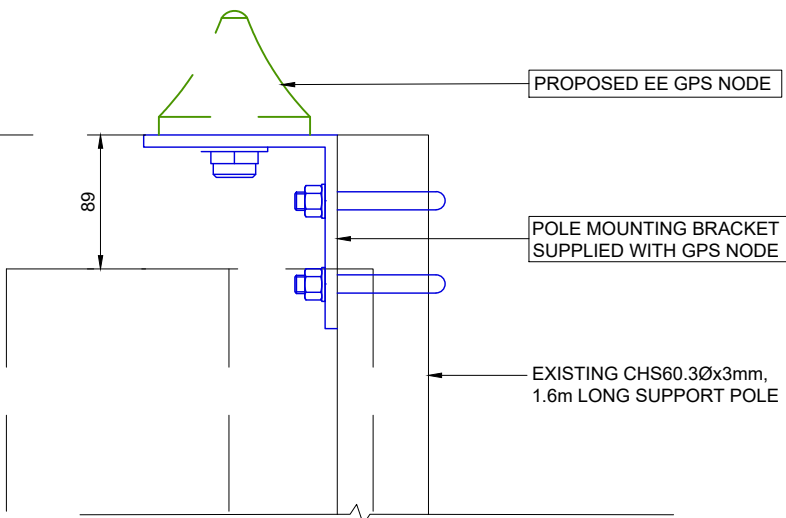
DRG No.	Sheet 1 of 1	Rev
88406-02-607-MD001		D



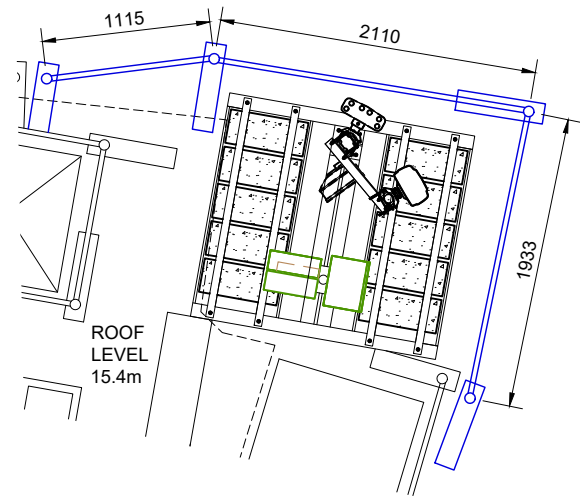
EE GPS NODE PLAN
SCALE 1:5



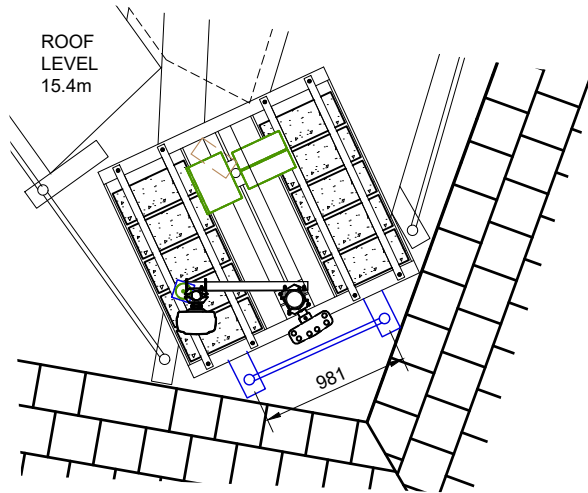
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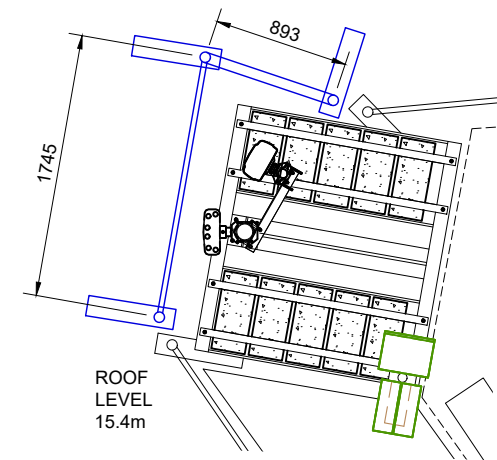
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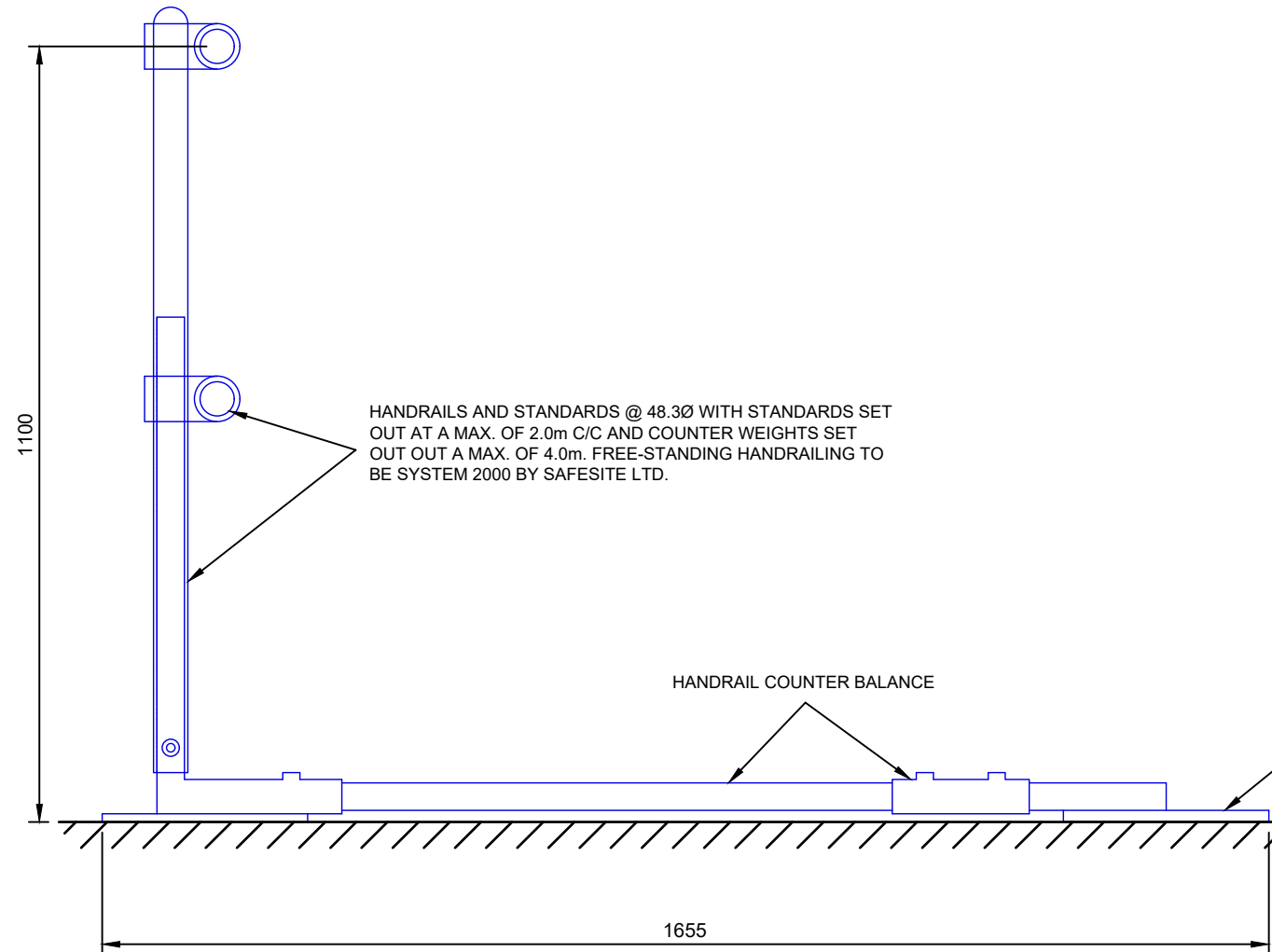
SECTOR 1 HANDRAIL PLAN
SCALE 1:50



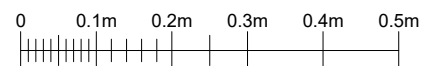
SECTOR 2 HANDRAIL PLAN
SCALE 1:50



SECTOR 3 HANDRAIL PLAN
SCALE 1:50



HANDRAIL ELEVATION
SCALE 1:10



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NOTES

PROJECT No.	238502
MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



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e-mail: info@whptelecoms.com

	PROJ No			
D	PROJ No 238502 BEARINGS UPDATE	26/10/22	JC	JC
C	PROJ No 238502 CONFIG STEP DOWN	06/10/22	WHT	JC
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A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP



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Tel. 020 4526 8553

SITE No	88406
LONDON GREEN LANES	
THE COLISEUM	
GREEN LANES	
LONDON	
GREATER LONDON 1	
N8 0RX	
NGR	TQ 31777 88792
OS GRID	531777 188792

TITLE	FREESTANDING HANDRAIL CONSTRUCTION H3G & EE		
SCALE	1:10		
DRAWN	MKG	08/10/21	
APPROVED	JC	08/10/21	
DRG No.	Sheet 1 of 1	Rev	
88406-02-608-MD001			D



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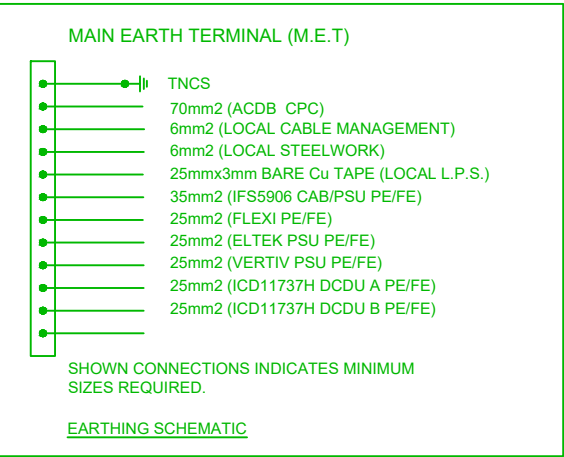
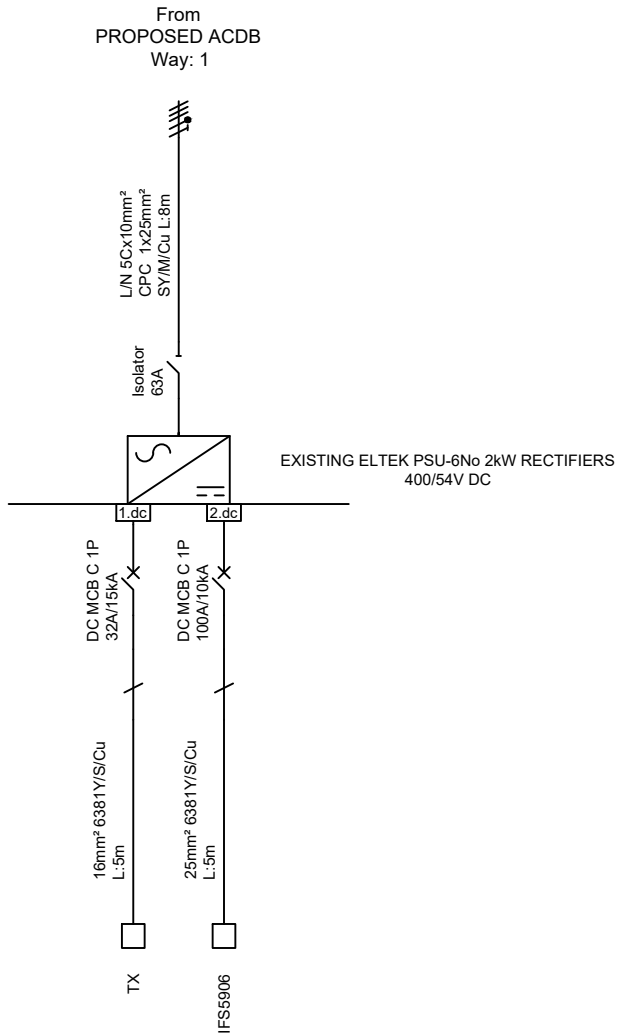
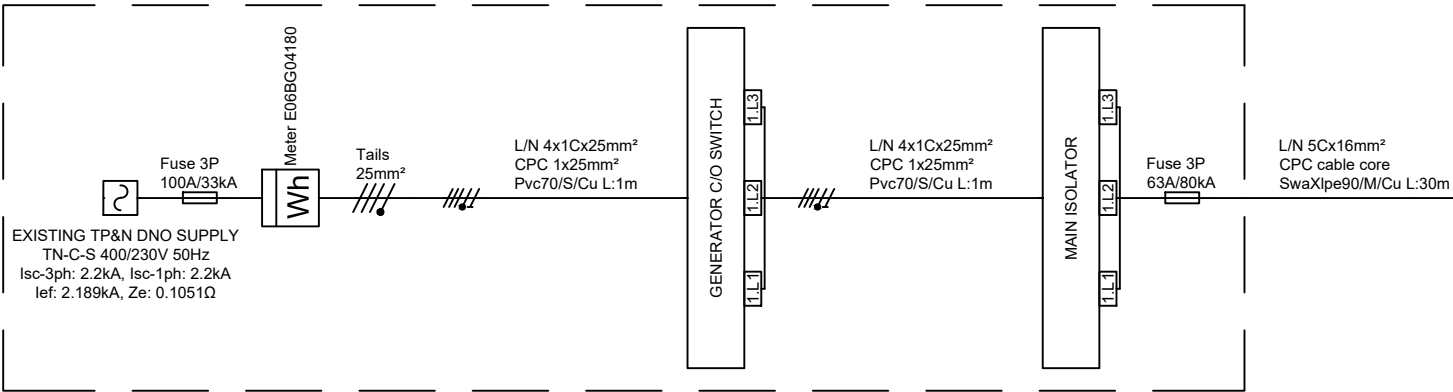
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driving telecom connectivity

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Tel. 020 4526 8553

DRG No.	Sheet 1 of 1	Rev
88406-02-700-MD001		D

MBNL

SITE TOTALS



EXISTING ELTEK PSU
6No 2kW RECTIFIERS

AIR CON DB

FLEXI 1 EE

FLEXI 2 H3G

HIGH TEMP

FIRE ALARM

LIGHTS (x2)

SOCKETS (x2)

MCB B 3P
40A/10kA

HPMCB C 3P
100A/25kA

MCB C 3P
40A/10kA

MCB B 1P
32A/10kA

MCB C 1P
16A/10kA

MCB C 1P
16A/10kA

MCB C 1P
6A/10kA

MCB C 1P
6A/10kA

MCB C 1P
6A/10kA

RCBO B 1P
30mA Instant AC
20A/10kA

PROPOSED ACDB-ICD11775 12WAY TP&N

MCB C 3P
6A/10kA

25mm²

PROPOSED
MERSEN SPD

L/N 5Cx10mm²
CPC 1x25mm²
SwaXlpe90/M/Cu L:5m

PROPOSED 20kW VERTIV PSU
7No 2kW RECTIFIERS

UPL SMART METER

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NOTES

PROJECT No. 238502

MBNL No. HGY002

T-UK No. 60428

H3G No. N/A

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A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG	JC
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THE COLISEUM
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LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792

OS GRID 531777 188792

TITLE
AC ELECTRICAL SCHEMATIC
CONSTRUCTION
H3G & EE

SCALE N.T.S.

DRAWN MKG 08/10/21

APPROVED JC 08/10/21

DRG No. Sheet 1 of 1 Rev

88406-02-701-MD001

NOTES

PROJECT No.	238502
MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



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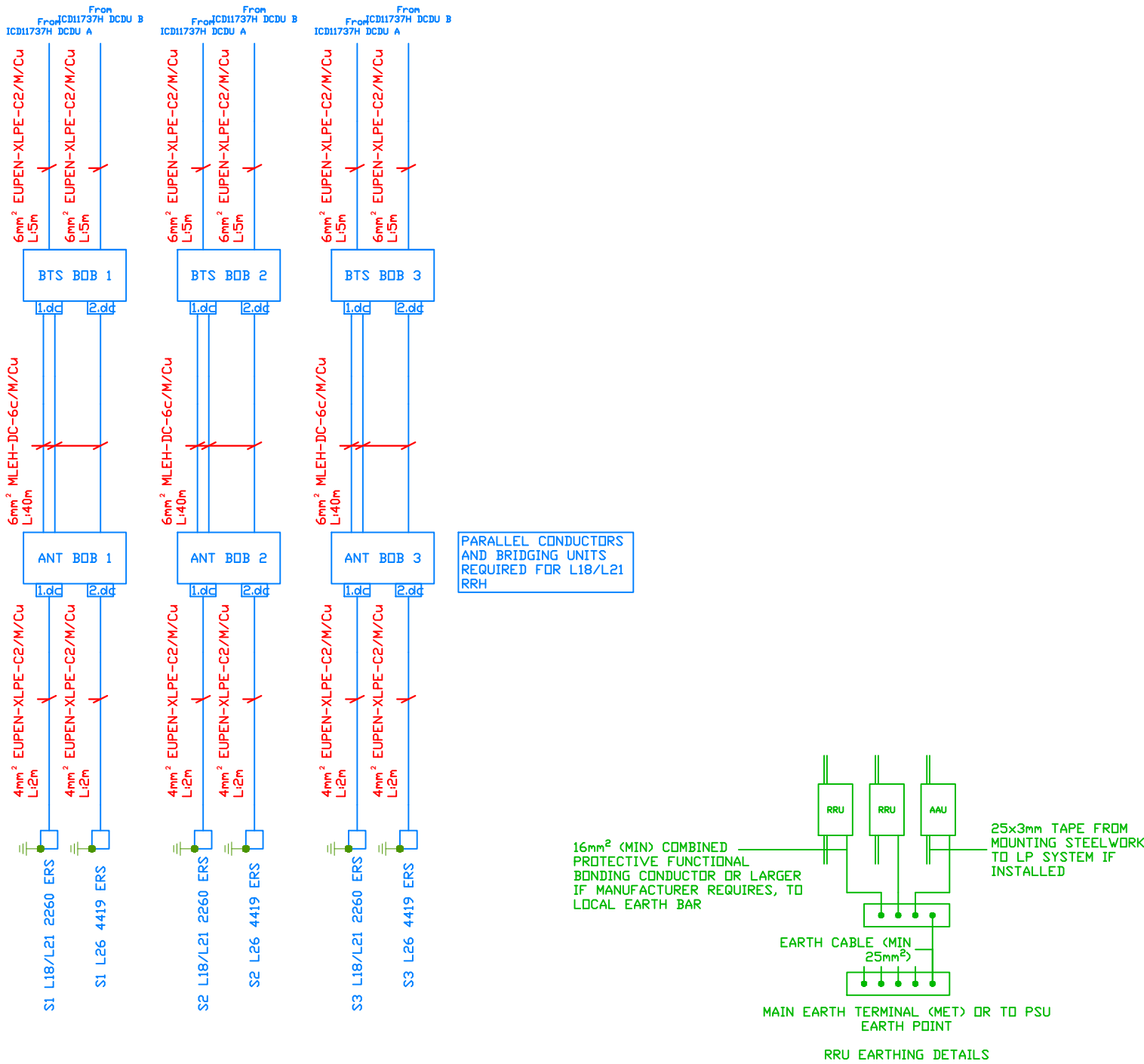
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DRG No. Sheet 1 of 1 Rev
88406-02-704-MD001 D

Analytical calculations report : PROPOSED ACDB-ICD11775 12WAY TP&N																	
Company		Blue Clarity				Designer				AP							
Circuit Description		PROPOSED ACDB-ICD11775 12WAY TP&N				Voltage / Phase			Three phase+N (400V and 230V) / L1,L2,L3				Cable ID		c-d-1		
Supply from		MAIN ISOLATOR (Way 1)				Circuit type			Vertical Busbar				Cable Classification				
Circuit design data																	
Conductor type		Multicore 90°C thermosetting insulated armoured, 5Cx16mm ² + E(cable core), SwaXlpe90/M/Cu											Length (m)		30		
		Element	Copper (Cu)		Armour		Steel		Temp (°C)		Full loaded:90 / Actual:41			Reference	BS4E4		
Installation method		Clipped direct - Reference method C							Correction factors		Ci:1 Cg:1 Ca:1 Ct:0.84 Cf:1 Ch:1						
		Settings	Ambient temperature (°C): 30.														
Protective conductor C.P.C		Installation settings			Integral conductor												
		Integral conductor (mm ²)			16	Other cpc (mm ²)			0		Total equivalent to Cu (mm ²)				16		
Protective devices		Overcurrent			Eaton, SD5, BS88:1988 Rating(A): 63									Icu / Ics		80kA / 80kA	
		RCD/Earth fault device			No									mA		-	
Circuit calculations		ASSUMED															
Currents (A)								Impedances (Ω) at operating temperature									
Design current Ib		Device rating In		Minimum effective conductor capacity - min Iz			Tabulated conductor capacity			Phase conductor Z1		CPC Z2	Earth external		Phase external		
40.25		63		63			94			0.0433		0.0433	0.1084		0.1085		
Load factors		L1	L2	L3	Design load			L1	L2	L3	N/Totals	Voltage drop		L1	L2	L3	
Power factor		1	1	1	Current (A)			40.25	34.07	36.85	5.36	Source (%)		0.03	0.02	0.03	
3rd Harmonics (%)		0	0	0	Load (kVA)			9.26	7.84	8.48	25.58	Circuit (%)		0.72	0.47	0.58	
Diversity factor		1	1	1	Resistive (kW)			9.26	7.84	8.48	25.58	Total (%)		0.75	0.49	0.6	
Spare (%)		0			Reactive (kVAr)			0	0	0	0	Limit		Public supply other uses:5%			
Earth Fault Calculations		Earth fault current{kA}			Zs(Ω) at fault conditions			Max Zs(Ω)			Max Disconnection Time (s)		Device Disconnection Time (s)		Min CPC (mm ²)		
		1.15			0.1904			0.8432			5		0.0123		0.96		
Phase Fault Calculations		Max at starting point (kA)			Max at end point (kA)			Min at end point (kA)			Let-through Energy of Fuse I ² t (A ² s) x 10 ³			Conductors withstand k ² S ² x 10 ³			
		2.16			1.67			1.21			18.92			5234.94			

NOTES

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H3G No. N/A



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DRG No. Sheet 1 of 1 Rev
88406-02-705-MD001 D

Voltage drop analysis report : ICD11737H DCDU A													MODECSOFT											
Company		Blue Clarity																						
Designer		AP																						
					1Ph AC or DC @ Operating temperature				Voltage drop (%)@ 54V															
Way	Phase	Description	Conductor	lb (A)	R mΩ/m	X mΩ/m	cosφ	Ct	Supply	Circuit	Total	Max	1%	2%	3%	4%	5%	6%	7%	8%	9%	10+		
DC		ICD11737H DCDU A	6m, 2x1Cx25mm² Pvc70/S/Cu	43.43	0.44	0	1	0.87	0	0.37	0.37	22												
DC					0.44	0																		
DC					0.44	0																		
1	DC	SPD UNIT	-	-	-	-	-	-	-	-	-	-												
2	DC	BTS BOB 1 - 2260 ERS	5m, 2Cx4mm² EUPEN-XLPE-C2/M/Cu	24.09	5.89	0	1	0.83	0.37	2.3	2.67	22												
2.1	DC	ANT BOB 1	40m, 2x3Cx6mm² MLEH-DC-6c/M/Cu	24.09	1.95	0	1	0.87	2.67	6.22	8.89	22												
2.1.1	DC	S1 L18/L21 2260 ERS	2m, 2Cx4mm² EUPEN-XLPE-C2/M/Cu	24.09	5.89	0	1	0.87	8.89	0.92	9.81	22												
3	DC	BTS BOB 2 - 2260 ERS	5m, 2Cx4mm² EUPEN-XLPE-C2/M/Cu	24.09	5.89	0	1	0.83	0.37	2.3	2.67	22												
3.1	DC	ANT BOB 2	40m, 2x3Cx6mm² MLEH-DC-6c/M/Cu	24.09	1.95	0	1	0.87	2.67	6.22	8.89	22												
3.1.1	DC	S2 L18/L21 2260 ERS	2m, 2Cx4mm² EUPEN-XLPE-C2/M/Cu	24.09	5.89	0	1	0.87	8.89	0.92	9.81	22												
4	DC	BTS BOB 3 - 2260 ERS	5m, 2Cx4mm² EUPEN-XLPE-C2/M/Cu	24.09	5.89	0	1	0.83	0.37	2.3	2.67	22												
4.1	DC	ANT BOB 3	40m, 2x3Cx6mm² MLEH-DC-6c/M/Cu	24.09	1.95	0	1	0.87	2.67	6.22	8.89	22												
4.1.1	DC	S3 L18/L21 2260 ERS	2m, 2Cx4mm² EUPEN-XLPE-C2/M/Cu	24.09	5.89	0	1	0.87	8.89	0.92	9.81	22												
5	DC	SPARE	-	-	-	-	-	-	-	-	-	-												
6	DC	SPARE	-	-	-	-	-	-	-	-	-	-												
7	DC	SPARE	-	-	-	-	-	-	-	-	-	-												
8	DC	SPARE	-	-	-	-	-	-	-	-	-	-												
9	DC	BBU6620	1m, 2Cx2.5mm² TFL-DC/M/Cu	2.59	10.5	0	1	0.81	0.37	0.08	0.46	22												
10	DC	BBU6648	1m, 2Cx2.5mm² TFL-DC/M/Cu	7.52	10.5	0	1	0.82	0.37	0.24	0.61	22												
11	DC	BBU6641	1m, 2Cx2.5mm² TFL-DC/M/Cu	4.46	10.5	0	1	0.82	0.37	0.14	0.52	22												



Outage Warning Sign to be attached to bottom of plantroom roof access ladder/Demarcation Barriers/Handrail/Rooftop access door/Grillage/Bottom of shared tower ladder



Rigid Access Safety Sign securely fixed to outside of roof pods, antenna access platforms at access point, bottom of plant room roof access ladders, etc



RF Safety sign on rear of all antenna, on tower anticlimb gate at eye level



Outage Warning Sign to be attached to bottom of plantroom roof access ladder/Demarcation Barriers/Handrail/Rooftop access door/Grillage/Bottom of shared tower ladder



POE Safety Sign on outside of compound gate, inside of roof access door, eye level at bottom of roof access ladder



RF Safety sign on rear of all antenna, on tower anticlimb gate at eye level



Restricted access sign at access points to MBNL equipment



Outage Warning Sign to be attached to bottom of plantroom roof access ladder/Demarcation Barriers/Handrail/Rooftop access door/Grillage/Bottom of shared tower ladder



RF Safety sign on rear of all antenna, on tower anticlimb gate at eye level



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NOTES

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SIGNAGE PLAN
CONSTRUCTION
H3G & EE

SCALE **1:200**

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SIGNAGE PLAN
SCALE 1:200



CONSTRUCTION NOTES

1. ALL DIMENSIONS TO EXISTING STRUCTURES ARE APPROXIMATE AND THE CONTRACTOR IS TO OBTAIN ALL SITE DIMENSIONS NECESSARY TO CARRY OUT THE WORKS. THE EXACT SITE LOCATION AS SHOWN ON THESE DRAWINGS IS TO BE ADJUSTED TO SUIT ANY EXISTING UNDERGROUND SERVICES PRESENT. ALL UNDERGROUND SERVICES TO BE LOCATED & IDENTIFIED PRIOR TO COMMENCEMENT OF WORKS.
2. ALL SPECIALIST ITEMS TO BE INSTALLED BY COMPETENT PERSONS AND USED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
3. THE CONTRACTOR SHALL SUBMIT HIS PROPOSALS FOR ANY TEMPORARY SUPPORTS AND METHOD STATEMENT SHOWING THE SEQUENCE OF CONSTRUCTION OF THE WORKS TO THE EMPLOYER FOR COMMENT BEFORE COMMENCEMENT OF THE WORKS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SUFFICIENT TOLERANCES ARE PROVIDED AND INTEGRATED THROUGHOUT ALL ELEMENTS OF THE WORKS.
5. THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR MAINTAINING THE STABILITY OF ALL EXISTING BUILDINGS AND STRUCTURES WITHIN & ADJACENT TO THE WORKS.
6. ALL STEELWORK FABRICATION AND ERECTION SHALL COMPLY WITH THE "NATIONAL STEELWORK SPECIFICATION".
7. BOLTS TO BE GRADE 8.8 TO BS4190. MINIMUM SIZE M16 UNLESS STATED OTHERWISE. ALL BOLTS SHALL BE SPUN GALVANISED FINISH IN ACCORDANCE WITH BS EN 1461.
8. ALL WELDS TO BE 6mm FULL PROFILE FILLET WELD U.N.O.
9. NON-PRE-TENSIONED BOLT SHALL BE SUPPLIED COMPLETE WITH MINIMUM OF ONE STANDARD NUT, ONE FLAT WASHER AND ONE SPRING WASHER
10. PRE-TENSIONED BOLTS SHALL BE SUPPLIED WITH ONE FLAT WASHER, ONE STANDARD NUT AND ONE LOCKING NUT. LOCKING NUTS SHALL BE WHOLE OR HALF NUTS OF THE SAME GRADE AS THE PRIMARY NUT. PAL NUTS OR EQUIVALENT TYPE SHALL NOT BE USED.
11. ALL STEELWORK TO BE GRIT BLASTED TO SA 2.5, PICKLED AND HOT DIP GALVANISED (100 MICRONS NO.MINAL THICKNESS) ALL IN ACCORDANCE WITH BS729.
12. ALL STEEL PRODUCTS MANUFACTURED TO HARMONISED BS EN STANDARDS SHALL BE SUPPLIED COMPLETE WITH CE MARKING AS FOLLOWS:

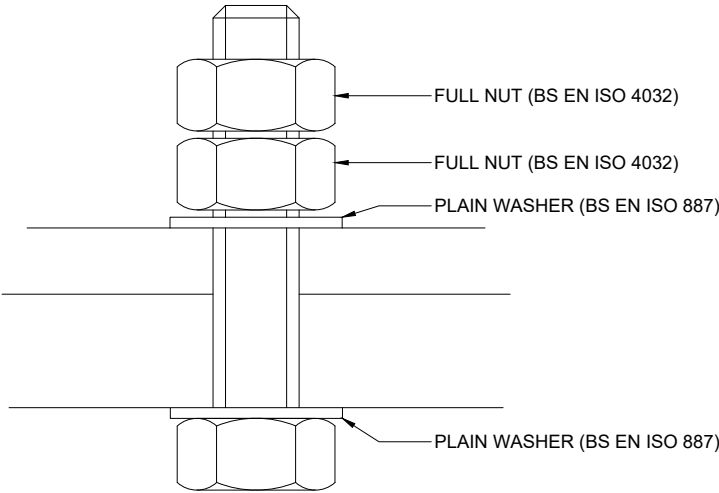
• STEEL SECTIONS TO BS EN 10025-1

• HOT FINISHED HOLLOW SECTIONS TO BS EN 10210-1

• COLD FORMED HOLLOW SECTIONS TO BS EN 10219-1

• FABRICATED SECTIONS TO BS EN 1090-1
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING FOR THE ACCURACY OF ALL SITE DIMENSIONS AND THE CORRECT SETTING OUT OF WORK ON SITE.
14. STANDARD GALVANISING TO BS ENISO 1461:2009
15. ALL STEELWORKS AND WELDS TO BE EXECUTION CLASS 2
16. ALL STEELWORK TO BE GRADE S275J0 UNLESS OTHERWISE STATED
17. HOT FINISHED HOLLOW SECTIONS TO BE OF GRADE S355

17. A TORQUE SETTING OF 40N.m SHOULD BE APPLIED TO EACH M12, GRADE 8.8 U, N, AND V BOLTS AND ALSO STUDDED RODS USED TO CONNECT ANTENNA AND DISH MOUNTING STEELWORK UNLESS DETAILED OTHERWISE. THIS TORQUE SETTING DOES NOT OVERRIDE MANUFACTURER TORQUE SPECIFICATION SUPPLIED FOR BESPOKE AND OFF-THE-SHELF ANTENNA AND DISH MOUNTING STEELWORK.



NOTE:
BOLT ARRANGEMENT FOR ALL CONNECTIONS SUBJECT TO TENSION AND SHEAR, INCLUDING U-BOLTS AND N-BOLTS

STANDARD STEEL WEIGHT	
Description (Size and Thickness)	Weight - kg/m (In order of Thickness)
PFC100x50	10.2
PFC125x65	14.8
PFC150x75	17.9
PFC150x90	23.9
EA90x90 - 12, 10, 8, 7	15.9, 13.4, 10.9, 9.6
EA100x100 - 15, 12, 10, 8	21.9, 17.8, 15.0, 12.2
EA120x120 - 15, 12, 10, 8	26.6, 21.6, 18.2, 14.7
CHS60.3 - 5.0, 6.3	6.82, 8.39
CHS76.1 - 5.0, 6.3	8.77, 10.8
CHS88.9 - 5.0, 6.3, 8.0, 10.0	10.3, 12.8, 16.0, 19.5
CHS114.3 - 5.0, 6.3, 8.0, 10.0	13.5, 16.8, 21.0, 25.7
CHS139.7 - 5.0, 6.3, 8.0, 10.0	16.6, 20.7, 26.0, 32.0
CHS168.3 - 5.0, 6.3, 8.0, 10.0	22.5, 25.2, 31.6, 39.0

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DRG No. Sheet 1 of 1

88406-02-900-MD001

Rev D

ELECTRICAL, LIGHTNING PROTECTION AND EARTHING NOTES

1. ALL ELECTRICAL WORKS INCLUDING AC DISTRIBUTION IN FULL, DC DISTRIBUTION IN FULL, LPS / EARTHING & BONDING INSTALLATIONS, PSU, BATTERY INSTALLATIONS AND AUXILIARY ELECTRICAL WORKS SHALL COMPLY WITH:

- BS 7671 – REQUIREMENT FOR ELECTRICAL INSTALLATIONS (AS AMENDED)
- IET GUIDANCE NOTES IN SUPPORT OF BS7671: 2018 EDITION.
 - IET ON SITE GUIDE IN SUPPORT OF BS7671: 2018 EDITION
 - ELECTRICITY AT WORK REGULATIONS 1989
 - HEALTH AND SAFETY AT WORK ACT 1974
 - ELECTRICITY SUPPLY, QUALITY AND CONTINUITY REGULATIONS 2002
 - BS 5266: EMERGENCY LIGHTING
 - BS 5839: FIRE DETECTION AND FIRE ALARM SYSTEMS FOR BUILDINGS
 - BS 6701: TELECOMMUNICATIONS EQUIPMENT AND TELECOMMUNICATIONS CABLING. SPEC FOR INSTALL OPERATION & MAINTENANCE.
 - BS 7430:2011: CODE OF PRACTICE FOR EARTHING
 - BS EN 50310: TELECOMMUNICATIONS BONDING NETWORKS FOR BUILDINGS AND OTHER STRUCTURES.
 - BS EN 62305-3:2011: PROTECTION AGAINST LIGHTNING PARTS 1 – 4
 - ALL OTHER RELEVANT BRITISH STANDARDS
 - CDM REGULATIONS
 - LOCAL AUTHORITY REQUIREMENTS
 - BUILDING REGULATIONS (AS APPLICABLE)
 - HSR25 – MEMORANDUM OF GUIDANCE ON THE ELECTRICITY AT WORK REGULATIONS 1989
 - GS38 – ELECTRICAL TEST EQUIPMENT FOR USE BY ELECTRICIANS
 - HSG85 – ELECTRICITY AT WORK. SAFE WORKING PRACTICES
 - HSG107 – MAINTAINING PORTABLE ELECTRICAL EQUIPMENT
 - INDG139 – USING ELECTRIC STORAGE BATTERIES SAFELY
 - INDG231 – ELECTRICAL SAFETY AND YOU. A BRIEF GUIDE
 - INDG354 – SAFETY IN ELECTRICAL TESTING AT WORK
 - ELECTRICAL SAFETY FIRST. ELECTRICAL BEST PRACTICE

2. ALL EARTHING AND BONDING WORKS SHALL COMPLY WITH BS 7430:2011

3. ALL LIGHTNING PROTECTION INSTALLATION SHALL BE SUPPLIED, INSTALLED, TESTED, COMMISSIONED IN ACCORDANCE WITH BS EN 62305-3:2011

WHERE AN EXISTING OR PART EXISTING LIGHTNING PROTECTION SYSTEM IS ADOPTED FOR PURPOSES, THE SPECIALIST CONTRACTOR SHALL VERIFY ITS SUITABILITY PRIOR TO ADOPTION IN ADVANCE OF ANY SUBSEQUENT CONNECTION OR ADDITION.

VERIFICATION OF LIGHTNING PROTECTION INSTALLATION SHALL BE ACHIEVED BY A COMBINATION OF EXISTING TEST CERTIFICATION, VALID TO WITHIN 1 YEAR AND VISUAL INSPECTION. WHERE EXISTING TEST CERTIFICATION IS NOT AVAILABLE OR HAS EXCEEDED THE DUE EXPIRY DATE THEN THE SPECIALIST CONTRACTOR SHALL ARRANGE TO INSPECT AND RE-TEST THE SYSTEM IN LINE WITH BS EN 62305-3:2011.

4. INSITU LIGHTNING PROTECTION SYSTEMS SHALL ONLY BE UPGRADED ON FORMAL APPROVAL FROM THE DESIGN ENGINEER. DISCONNECTION OR MODIFICATION OF ANY EXISTING LIGHTNING PROTECTION SYSTEM, INCLUDING PART DISCONNECTION FOR TEST PURPOSES, SHALL ONLY BE UNDERTAKEN WITH THE WRITTEN APPROVAL OF THE SITE PROVIDER AND / OR HIS NOMINATED SPECIALIST CONTRACTOR, THE DESIGN ENGINEER AND ANY OTHER 3RD PARTIES (INCLUDING OPERATORS) WHERE DISCONNECTION OR ALTERATION MAY ADVERSELY AFFECT NORMAL SAFE OPERATION OF EQUIPMENT AS CONNECTED

LIGHTNING PROTECTION CONNECTION
TO BE CARRIED OUT BY AN APPROVED
CONTRACTOR

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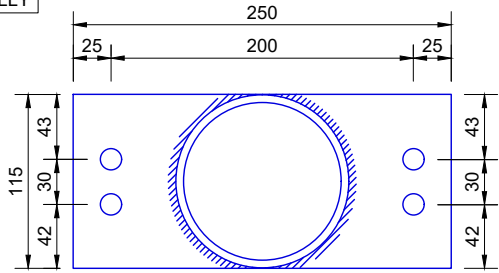
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88406-02-901-MD001		D

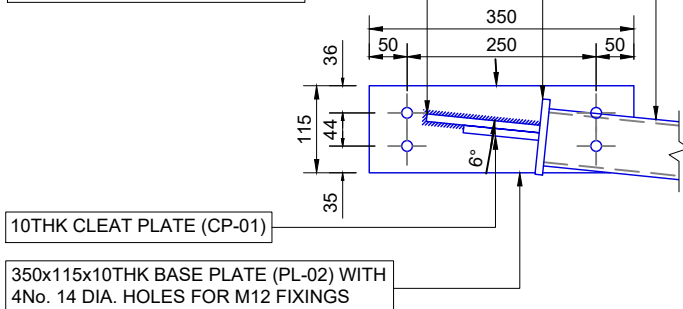
250x115x10mm THK BASE PLATE
WITH 4No. 14 DIA. HOLES FOR
M12 FIXINGS (PL-01)

CHS114.3Øx5mm THK
POLE TO BE WELDED
AT PLATE CENTRALLY



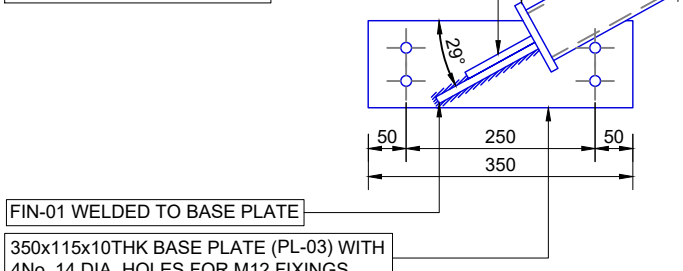
PL-01
SCALE 1:5

76.1x5.0 CHS BRACE POLE (CHS-02)
100 DIA x 10 THK END PLATE
(EP-01) WELDED TO CHS AND
CLEAT PLATE (CP-01)
FIN-01 WELDED TO BASE PLATE



PL-02
SCALE 1:10

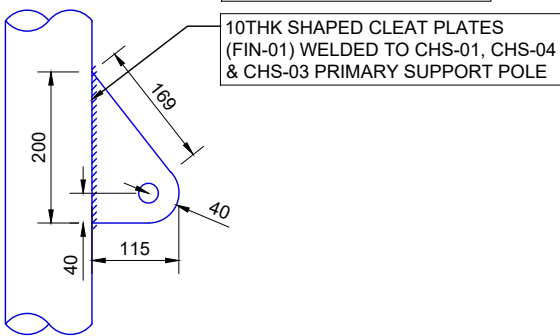
76.1x5.0 CHS BRACE POLE (CHS-02)
100 DIA x 10 THK END PLATE
(EP-01) WELDED TO CHS AND
CLEAT PLATE (CP-01)
10THK CLEAT PLATE (CP-01)



PL-03
SCALE 1:10

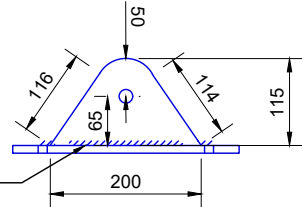


FIN-01 DRILLED WITH 14Ømm
HOLES TO SUIT M12 BOLTS

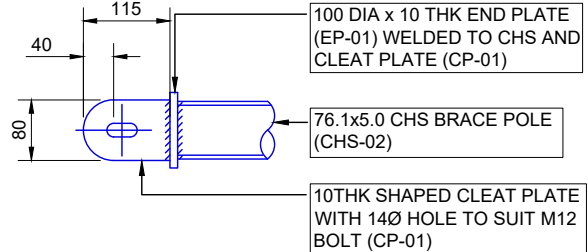


FIN-01 DETAIL
SCALE 1:10

10THK SHAPED CLEAT PLATES
(FIN-02) WELDED TO PL-02 & PL-03
FIN-02 DRILLED WITH 14Ømm
HOLES TO SUIT M12 BOLTS



FIN-02 DETAIL
SCALE 1:10



BRACING POLE CONNECTION
SCALE 1:10

NOTE: STEELWORK CONTRACTOR
IS TO ENSURE THAT NEW POLE IS
INSTALLED TO TOLERANCES
SPECIFIED IN BS5950 FOR
STEELWORK ERECTION. ie. WITHIN
1/600 OF VERTICAL.

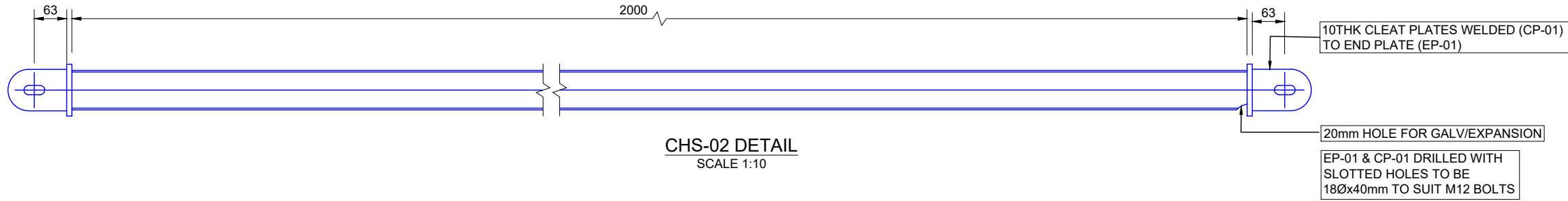
NOTE: ALL FIXINGS TO BE
PROPRIETARY HOT FORMED HOT
DIP GALVANISED WITH FLAT AND
SPRING WASHERS UNO

ALL WELDS 6mm FULL PROFILE
FILLET WELDS ONU

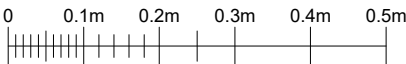
NOTE: ALL EXPOSED EARTH
TAPE TO BE PVC SHEATHED

ALL SLOTTED HOLES TO BE
18Øx40mm TO SUIT M16 BOLTS

CP-01 DRILLED WITH SLOTTED
HOLES TO BE 18Øx40mm TO
SUIT M16 BOLTS



CHS-02 DETAIL
SCALE 1:10



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NOTES

PROJECT No.	238502
MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



PROJ No				
PROJ No	238502			
D	BEARINGS UPDATE	26/10/22	JC	JC
PROJ No	238502			
C	CONFIG STEP DOWN	06/10/22	WHT	JC
PROJ No	238502			
B	MAJOR AMENDMENT	22/08/22	SMY	JC
PROJ No	238502			
A	CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP



SITE No 88406
LONDON GREEN LANES
THE COLISEUM
GREEN LANES
LONDON
GREATER LONDON 1
N8 0RX

NGR TQ 31777 88792
OS GRID 531777 188792

TITLE
PROPOSED STEEL WORK DETAIL
CONSTRUCTION
H3G & EE LTD

SCALE AS SHOWN

DRAWN MKG 08/10/21
APPROVED JC 08/10/21

DRG No. Sheet 4 of 5 Rev
88406-02-603-MD001 D

Parts list

Part	Material	Quantity 4600	Quantity 4601	Quantity 4602
Cone	S355MC HDG	1	1	1
Frame side	S355J2H HDG	4	4	4
Cross beam	S355MC HDG	3	4	5
Strut	P235TRI HDG	2	2	2
Protective mat	Cell polyethylene RG 100	4	4	4
Fasteners	8.8 HDG or equivalent	Incl.	Incl.	Incl.

Product options

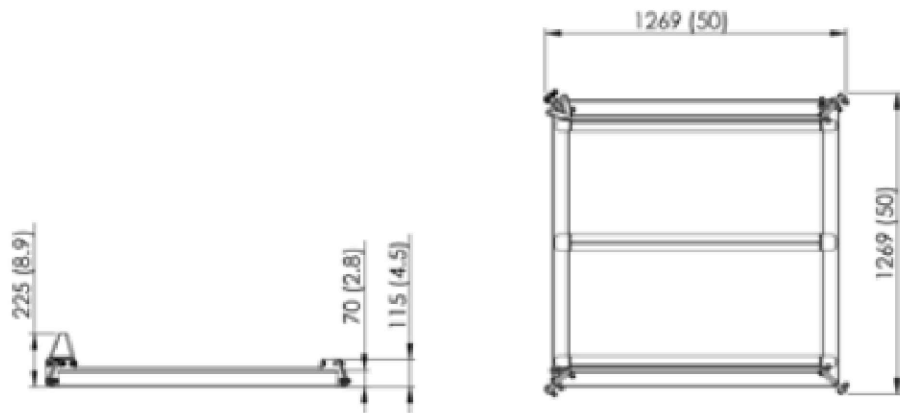
42071: Concrete block to increase ballast weight.

91124: Additional strut for yoke arms to be attached to Ø 76.1 mm (3 in) tube.

91125: Clamp set for Ø 114.3 mm (4.5 in) tube. 3 clamps with U-bolts included.

Tubes of various lengths, diameters and wall thicknesses can be ordered from MAFI.

4600



Parent member



Ø 76.1 mm

Ø 3 in

Option **91125:**

Ø 114.3 mm

Ø 4.5 in

Recommended maximum tilt: 4°

Ballast block capacity

4600:

Half ballast: 4 pcs **42071**

Full ballast: 8 pcs **42071**

Maximum ballast weight: 224 kg (494 lb)

4601:

Half ballast: 9 pcs **42071**

Full ballast: 18 pcs **42071**

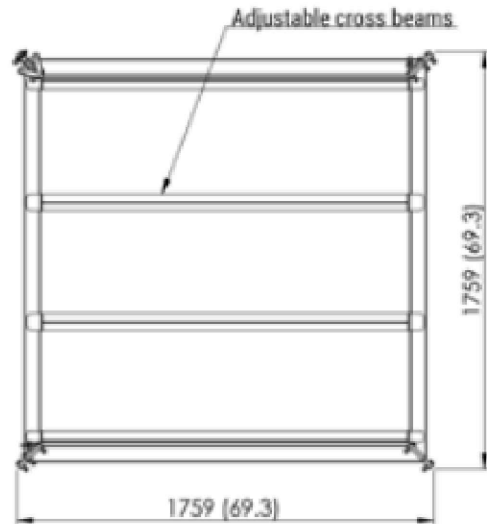
Maximum ballast weight: 504 kg (1111 lb)

4602:

Half ballast: 16 pcs **42071**

Full ballast: 32 pcs **42071**

Maximum ballast weight: 896 kg (1975 lb)



4601



4602



4601



4600



4602



EN 1090

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NOTES

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MBNL No.	HGY002
T-UK No.	60428
H3G No.	N/A



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e-mail: info@whptelecoms.com

	PROJ No			
D	PROJ No 238502 BEARINGS UPDATE	26/10/22	JC	JC
C	PROJ No 238502 CONFIG STEP DOWN	06/10/22	WHT	JC
B	PROJ No 238502 MAJOR AMENDMENT	22/08/22	SMY	JC
A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG	JC
ISS	REVISION	DATE	DRN	APP



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LONDON GREEN LANES
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TITLE
MAFI FREE STANDER DETAIL
CONSTRUCTION
H3G & EE LTD

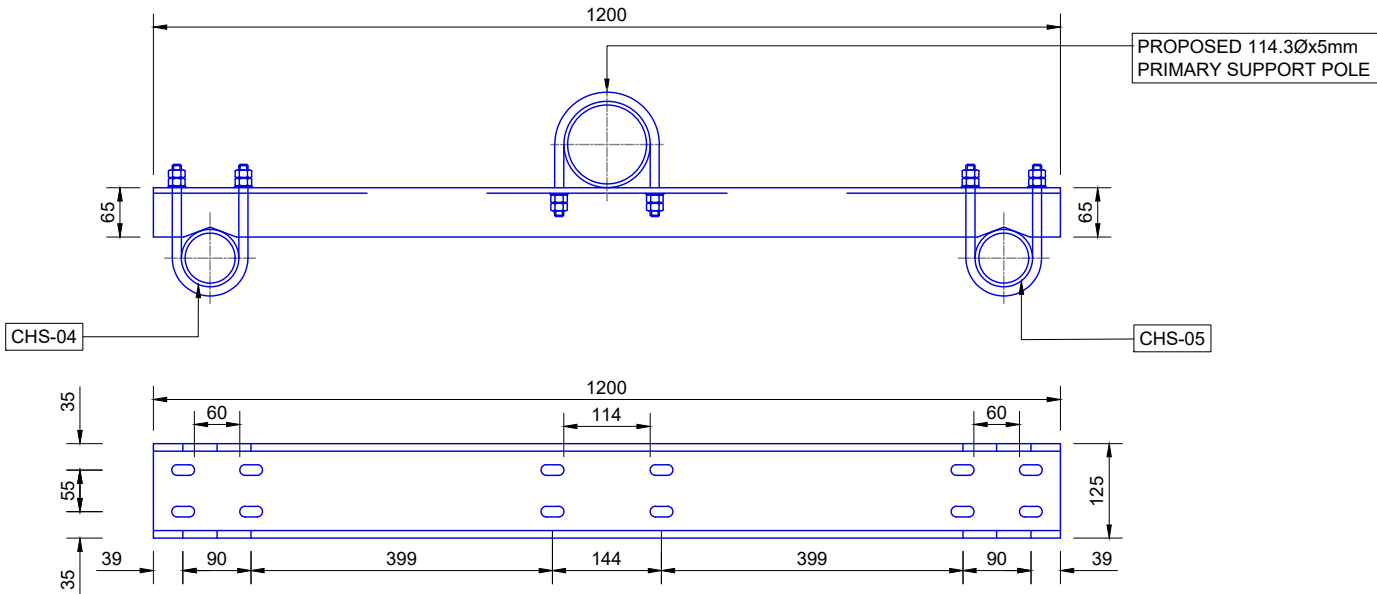
SCALE	AS SHOWN	
DRAWN	MKG	08/10/21
APPROVED	JC	08/10/21

DRG No.	Sheet 5 of 5	Rev
88406-02-604-MD001		D

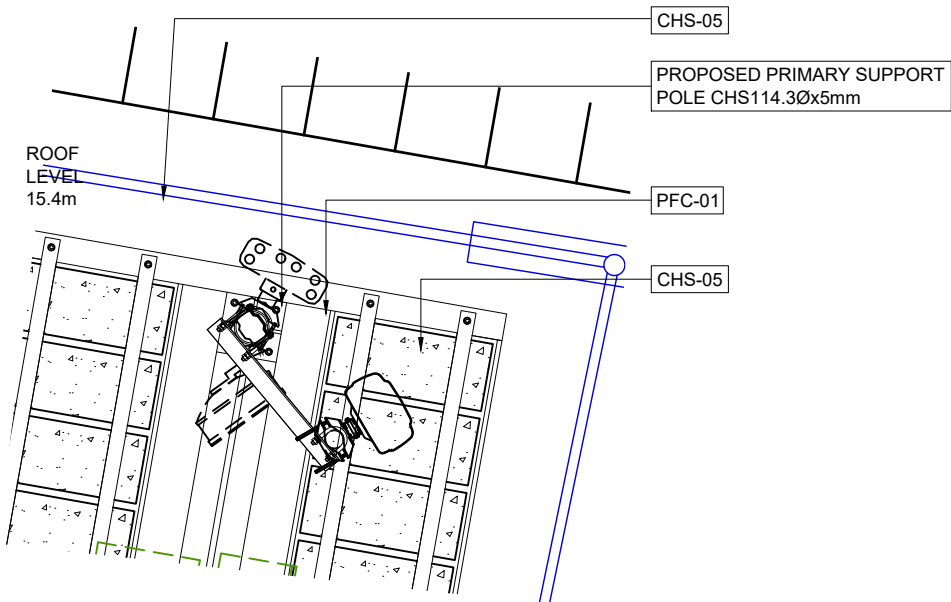
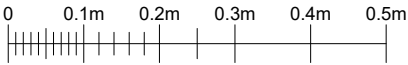
PROPOSED TAKE-OFF LIST - BESPOKE YOKE BRACKET

DWG REF	ITEM	QUANTITY	DESCRIPTION
CHS-04	CHS76.1Øx5mm, 3.3m LONG VERTICAL SUPPORT POLE	2	ANTENNA SUPPORT POLE
CHS-05	CHS76.1Øx5mm, 3.0m LONG VERTICAL SUPPORT POLE	4	ANTENNA SUPPORT POLE
PFC-01	PFC 125x65x15mm, 1.2m LONG	6	BESPOKE YOKE BRACKET
M12	GRADE 8.8 M12 LONG LEGGED U-BOLTS	24	M12 U-BOLT TO SUIT CHS Ø76.1mm
M12	GRADE 8.8 M12 LONG LEGGED U-BOLTS	12	M12 U-BOLT TO SUIT CHS Ø139.7mm

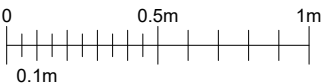
PROPOSED 12No. Ø14, 30mm LONG SLOTTED HOLES TO SUIT M12 U-BOLTS



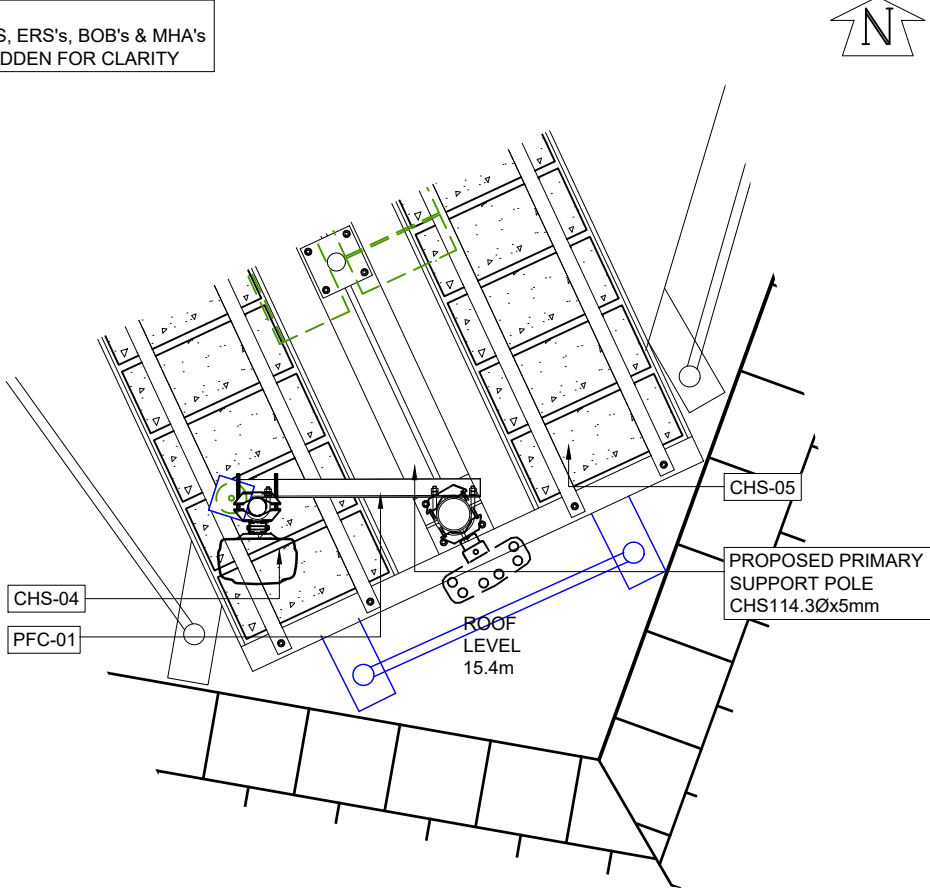
PFC-01
SCALE 1:10



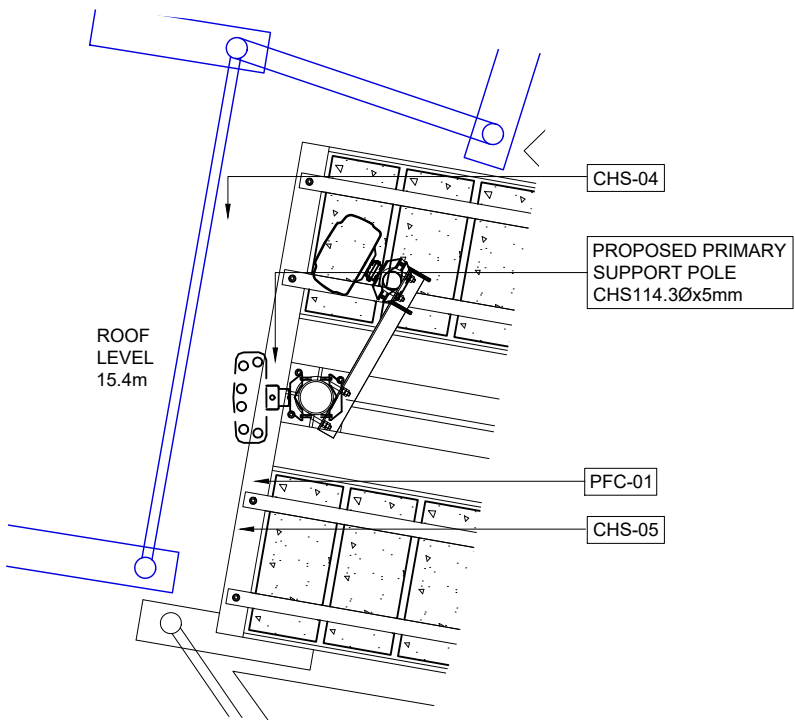
PROPOSED PLAN SECTOR 1
SCALE 1:25



NOTE:
ANTENNAS, ERS's, BOB's & MHA's
SHOWN HIDDEN FOR CLARITY



PROPOSED PLAN SECTOR 2
SCALE 1:25



PROPOSED PLAN SECTOR 3
SCALE 1:25

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MBNL No.	HGY002
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H3G No.	N/A

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A	PROJ No 238502 CONSTRUCTION	08/10/21	MKG JC
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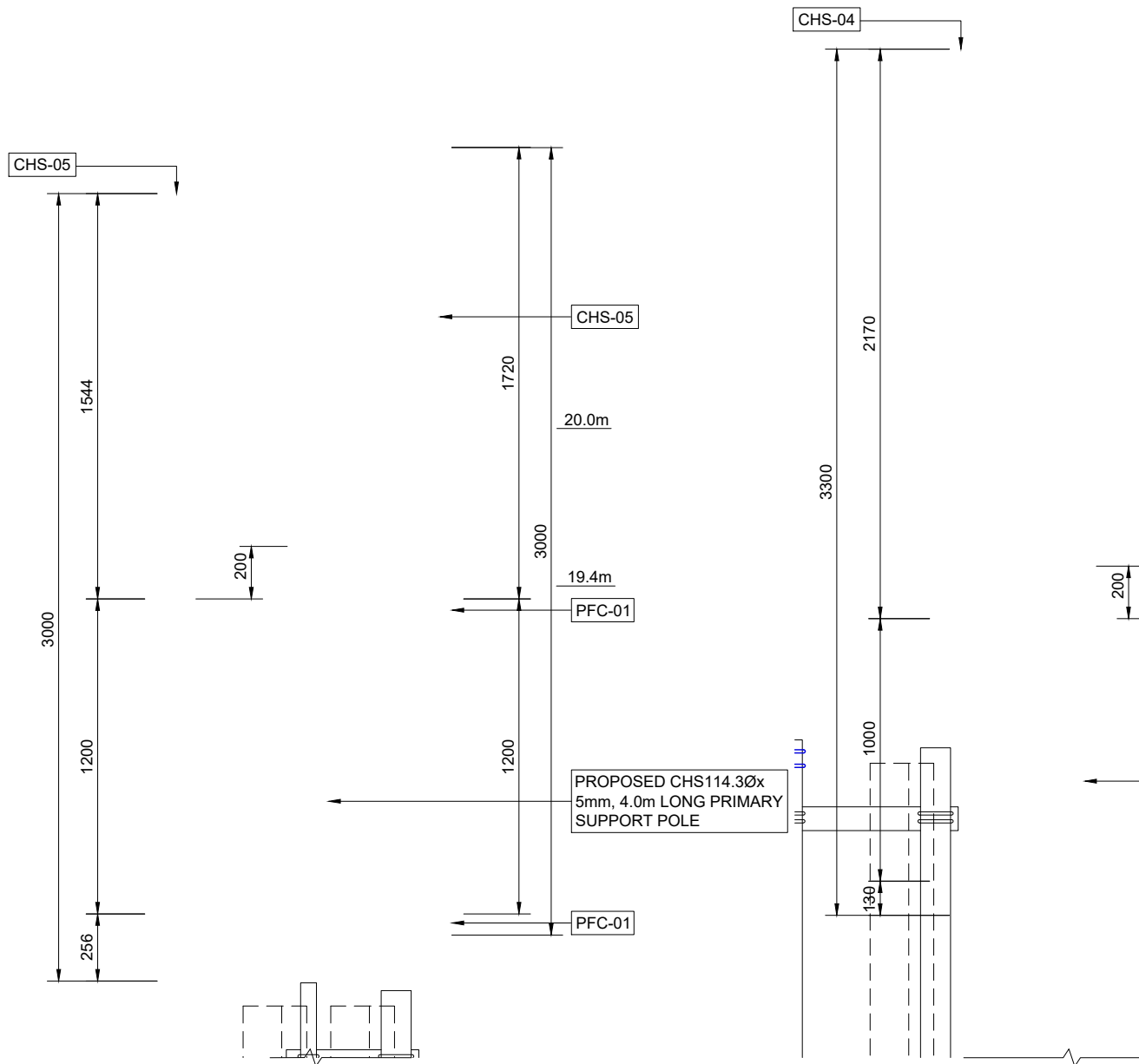
TITLE
PROPOSED YOKE BRACKET
CONSTRUCTION
H3G & EE LTD

SCALE AS SHOWN

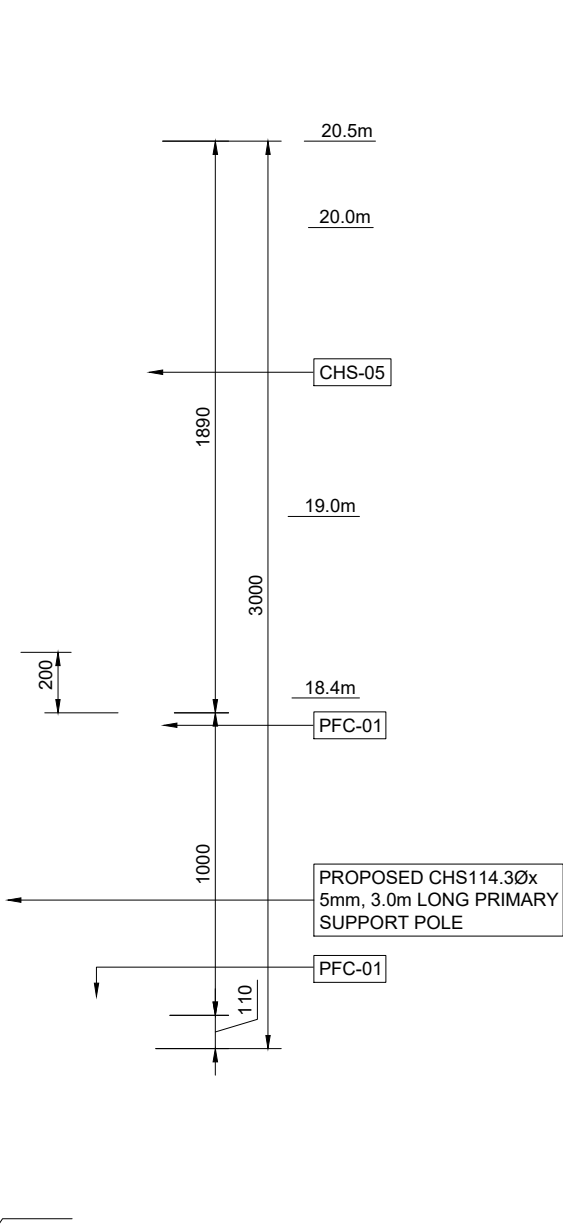
DRAWN MKG 08/10/21
APPROVED JC 08/10/21

DRG No. Sheet 1 of 2 Rev
88406-02-605-MD001 D

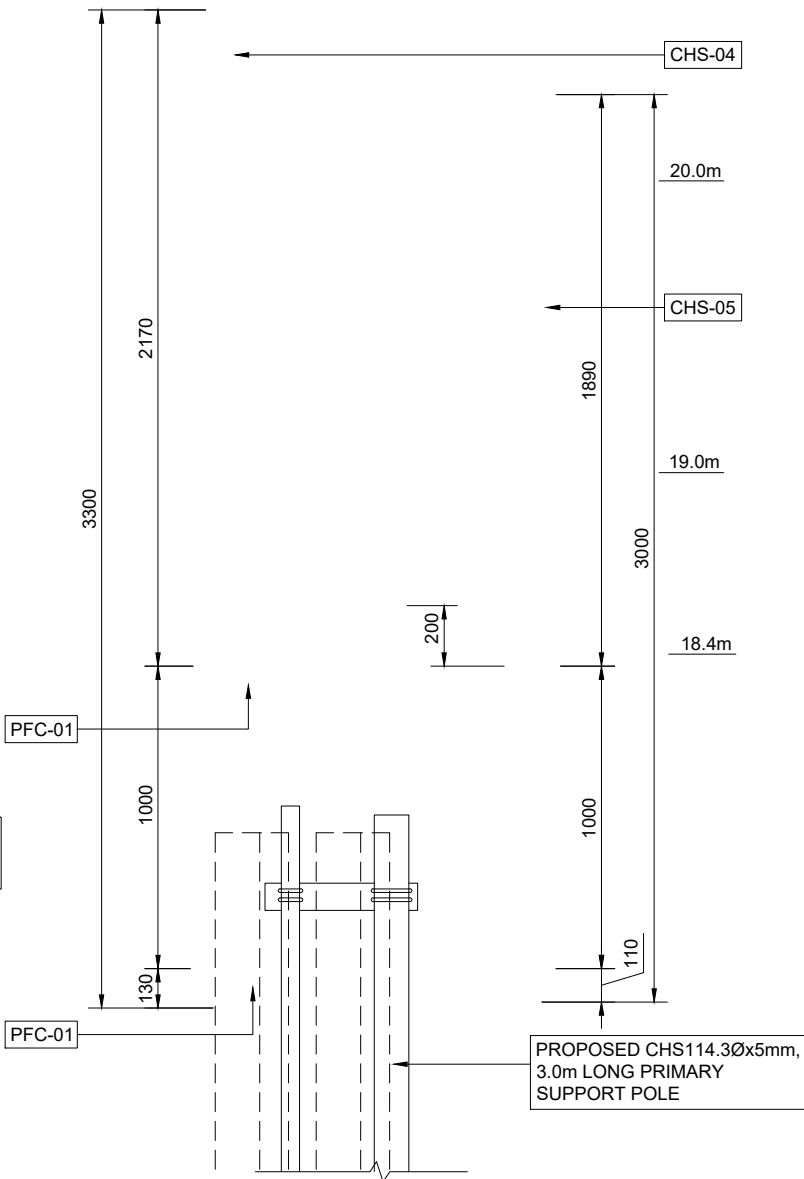
NOTE:
ANTENNAS, ERS's, BOB's & MHA's
SHOWN HIDDEN FOR CLARITY



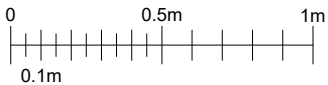
PROPOSED SECTOR 1 ELEVATION
SCALE 1:25



PROPOSED SECTOR 2 ELEVATION
SCALE 1:25



PROPOSED SECTOR 3 ELEVATION
SCALE 1:25



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ISS	REVISION	DATE	DRN	APP



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CONSTRUCTION
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DRAWN	MKG	08/10/21
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DRG No.	Sheet 2 of 2	Rev
88406-02-606-MD001		D



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NOTES
WHERE TAPES ARE INSTALLED ON THE SURFACE THEY SHALL BE PVC COVERED. PVC COVERING SHALL BE REMOVED FROM A DISTANCE OF 300mm BELOW GROUND WHERE TAPES CONNECT TO THE RING TAPE.

ALL CONNECTIONS SHALL BE CORROSION PROTECTED, BY USING PROPRIETARY CLAMPS/ CONNECTORS & WHERE APPROPRIATE MOISTURE INHIBITING TAPE.

2 No. FENCE POSTS/GATE POSTS, ALL EQUIPMENT CABINETS AND ANCILLARY STEELWORK TO BE CONNECTED TO NEW L/P SYSTEM USING 25x3 BURIED BARE (PVC COATED ONLY WHEN EXPOSED) COPPER EARTH TAPE. GATE TO BE CROSS BONDED TO GATE POST USING FLEXIBLE COPPER BRAID.

THE L/P SYSTEM IS TO BE TESTED TO ENSURE IT COMPLIES WITH THE SPECIFICATION. IE 10 OHMS MAX RES

PROJECT No.	238502
MBNL No.	HGY002
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MBNL No.	HGY002
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OS GRID **531777 188792**

TITLE
**LIGHTNING PROTECTION LAYOUT
CONSTRUCTION
H3G & EE**

SCALE **1:200**

DRAWN **MKG** **08/10/21**

APPROVED **JC** **08/10/21**

DRG No.	Sheet 1 of 1	Rev
88406-02-705-MD001		D

PROPOSED MAFI 4601 FREE STANDER
TO BE BONDED TO EXISTING LP SYSTEM

PROPOSED MAFI 4601 FREE STANDER
TO BE BONDED TO EXISTING LP SYSTEM

PROPOSED MAFI 4601 FREE STANDER
TO BE BONDED TO EXISTING LP SYSTEM

KEY

EXISTING EARTH PIT		PROPOSED EARTH PIT	
LIGHTNING PROTECTION TAPE CONNECTION POINTS		LIGHTNING PROTECTION TAPE CONNECTION POINTS	
EXISTING LIGHTNING PROTECTION TAPE		PROPOSED LIGHTNING PROTECTION TAPE DESIGN	

LIGHTNING PROTECTION

SCALE 1:200

