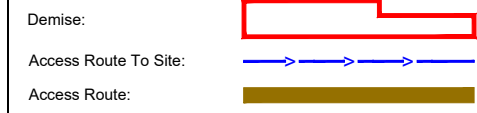


NGR E: 399426 N: 406068

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NOTES:
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
DIRECTIONS TO SITE:
HEAD WEST ON M62, AT JUNCTION 22, TAKE THE A672 EXIT TO SADDLEWORTH, TURN LEFT ONTO A672, TURN LEFT ONTO HUDDERSFIELD RD/A640, TURN RIGHT ONTO DELPH RD/A6052, TURN RIGHT ONTO HIGH ST/A6052, TURN RIGHT ONTO OLDHAM RD/A62, TURN LEFT ONTO DELPH NEW RD/A6052, TURN RIGHT ONTO LADCASTLE RD, DESTINATION WILL BE ON THE RIGHT



Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
Checked:	KS			
Approved:	HG			

 Hatfield Business Park
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Hertfordshire
AL10 9BW

Tel: 01707 315000
Fax: 01707 319001

Design & Principal Consultant:

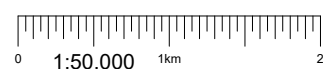
UK Office:
UBC Building, 1310 Solihull Parkway,
Birmingham Business Park, B37 7YU
Tel: +44 (0)1908 377 766
Email: info@ktl.ie

Site Name: **SADDLEWORTH GOLF CLUB**
Site ID: **979927**
Address:
**MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT**

Title: **002 SITE LOCATION PLAN**
Project: **VENDOR SWAP**
Purpose of Issue: **GENERAL ARRANGEMENT**
EE Cell ID: **52082** MBNL Cell ID: **OLM007** 3UK Cell ID: **OL0126**
Master Drawing No: **979927_OLM007_52082_OL0126_M001** Issue: **A**

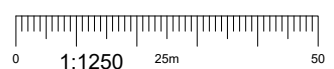
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SITE AREA PLAN



SITE PHOTOGRAPH

SITE LOCATION PLAN



GOOGLE MAPS QR CODE

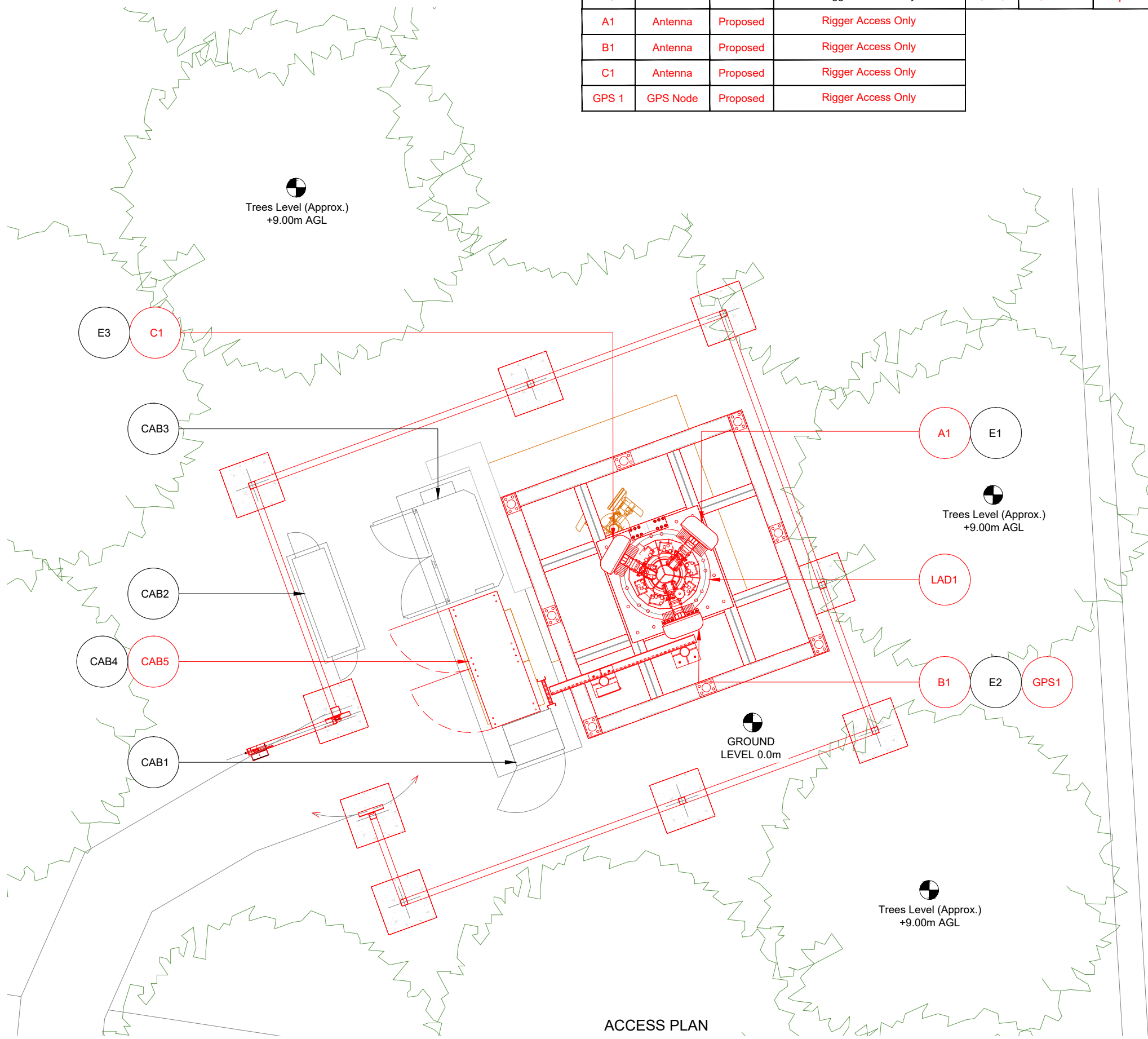
GOOGLE MAPS - <https://goo.gl/maps/LMAZR8wLCw4dQcD6A>
GOOGLE STREET VIEW - <https://goo.gl/maps/gAL2wTkiqS3v7xR56>

100mm
50mm
10mm



Asset Reference	Asset Description:	Asset Status:	Access Description:	Asset Reference	Asset Description:	Asset Status:	Access Description:	Asset Reference	Asset Description:	Asset Status:	Access Description:
LAD1	Ladder	Proposed	Rigger Access Only	E1	Antenna	Installed	Rigger Access Only	CAB1-3	Cabinets	Installed	Unrestricted Access
				E2	Antenna	Installed	Rigger Access Only	CAB4	Cabinet	Remove	Unrestricted Access
				E3	Antenna	Installed	Rigger Access Only	CAB5	Cabinet	Proposed	Unrestricted Access
				A1	Antenna	Proposed	Rigger Access Only				
				B1	Antenna	Proposed	Rigger Access Only				
				C1	Antenna	Proposed	Rigger Access Only				
				GPS 1	GPS Node	Proposed	Rigger Access Only				

NOTES:
 1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
 DEFINED ACCESS ROUTE DESCRIPTION FROM SITE ENTRANCE TO THE EQUIPMENT:



ACCESS PLAN
 0 1:50 1m 2

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
Checked:	KS			
Approved:	HG			



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Design & Principal Consultant:



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Tel: +44 (0)1908 377 766
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Site Name: **SADDLEWORTH GOLF CLUB**

Site ID: **979927**

Address:
**MOUNTAIN ASH
 LADCASTLE ROAD
 UPPERMILL
 OLDHAM
 OL3 6LT**

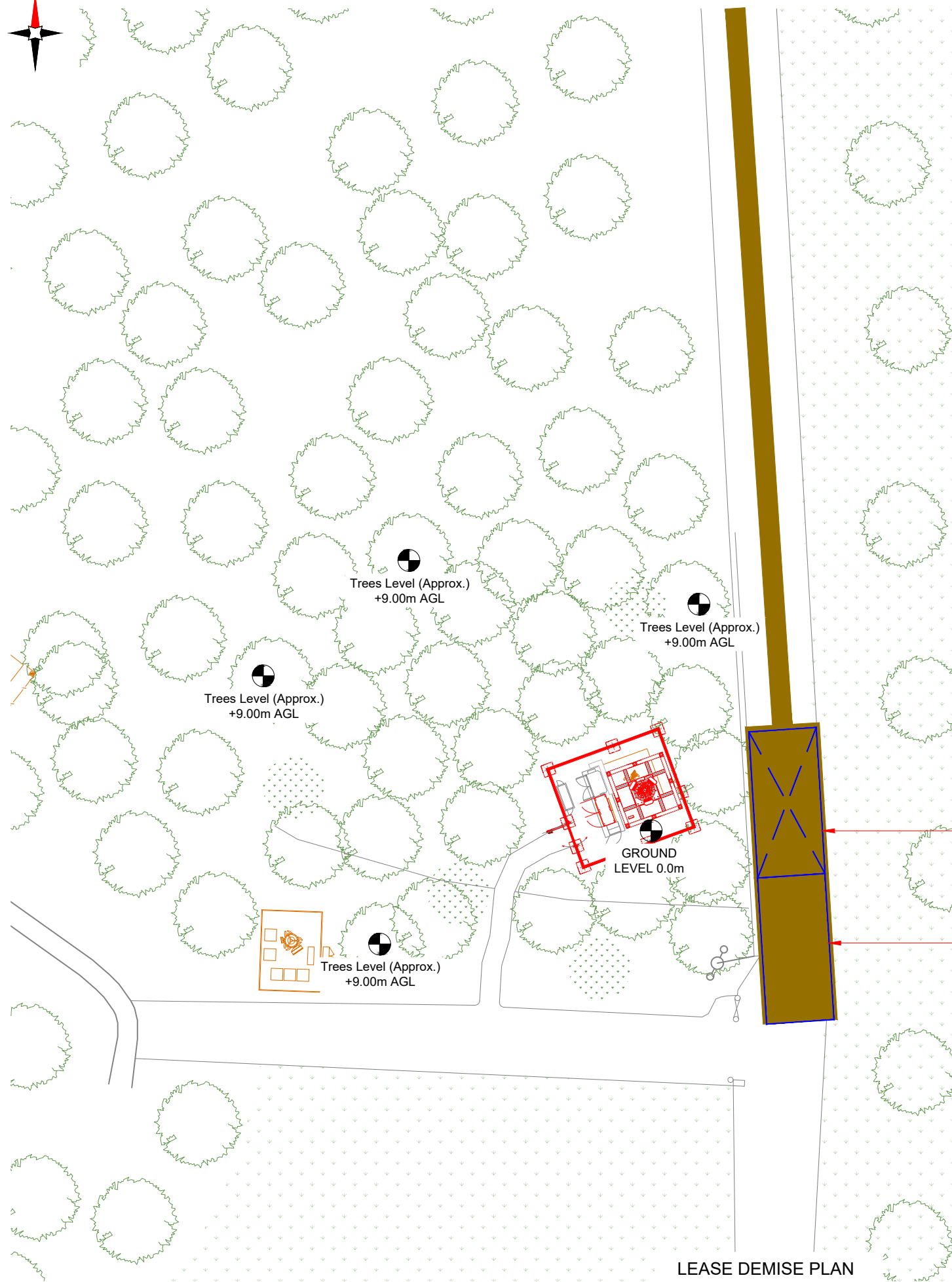
Title: **003 ACCESS PLAN**

Project: **VENDOR SWAP**

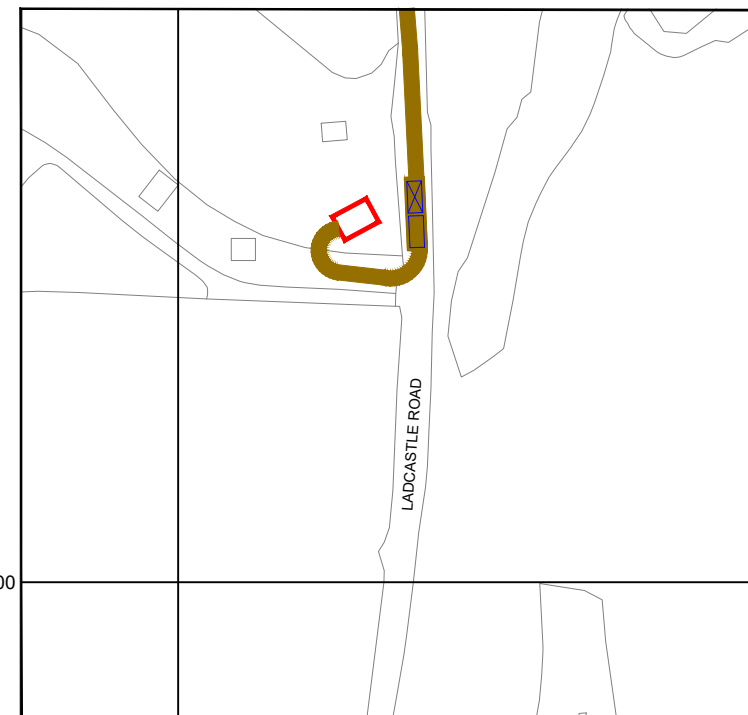
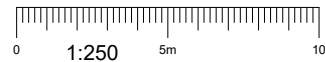
Purpose of Issue: **GENERAL ARRANGEMENT**

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No: **979927_OLM007_52082_OL0126_M001** Issue: **A**



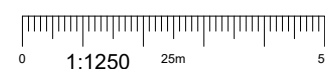
LEASE DEMISE PLAN



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NGR E: 399426
N: 406068

SITE LOCATION PLAN



NEW CODE:		
Demise:	Outlined in Red	
Access Route:	Solid Brown	
Set Down Area:	Outlined in Blue	
Crane Area:	Dashed in Blue	

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
Checked:	KS			
Approved:	HG			



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Email: info@ktl.ie

Site Name:

SADDLEWORTH GOLF CLUB

Site ID:

979927

Address:

MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT

Title:

004 LEASE DEMISE

Project:

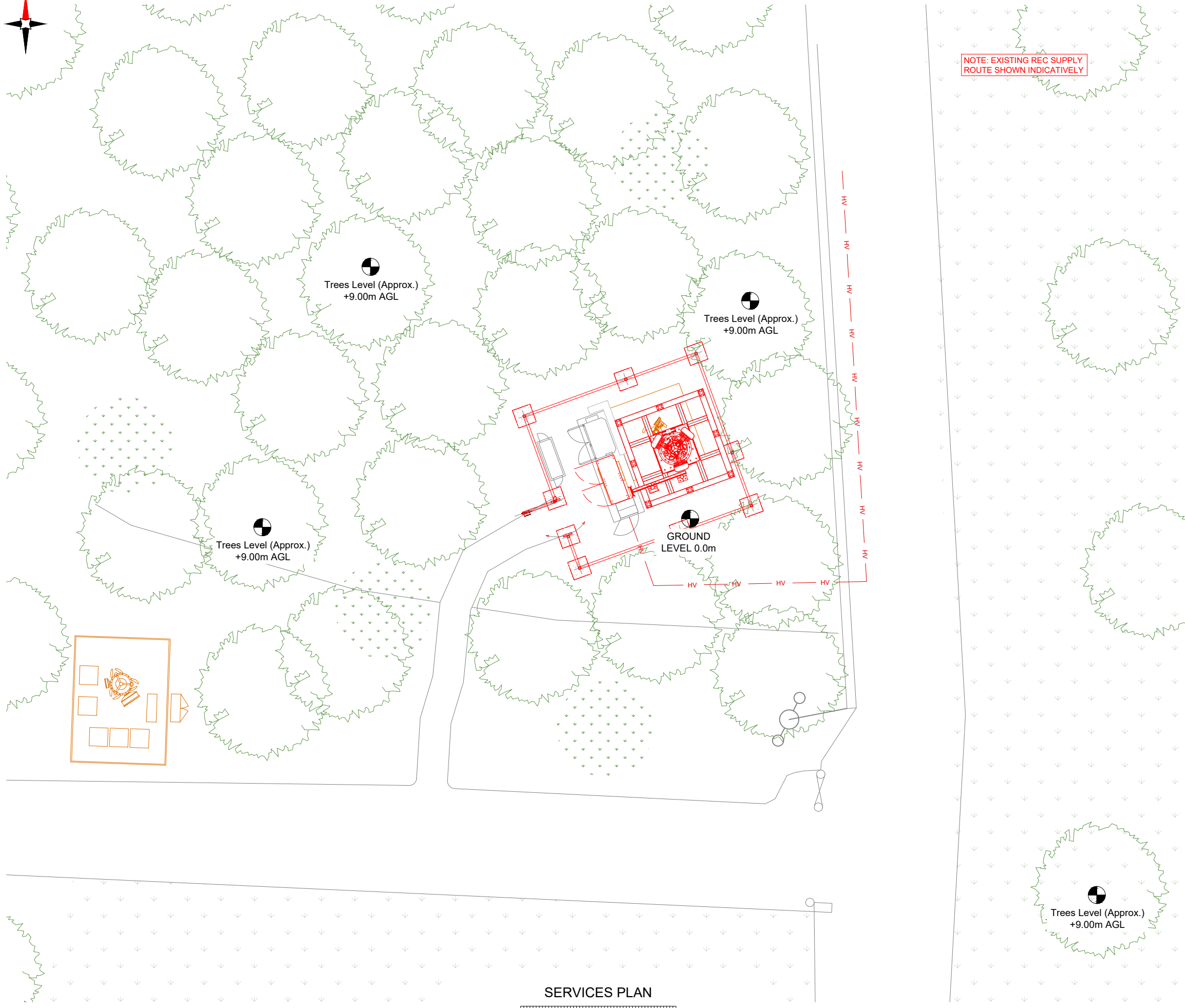
VENDOR SWAP

Purpose of Issue:

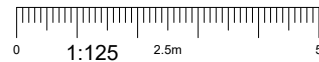
GENERAL ARRANGEMENT

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No:	Issue:
979927_OLM007_52082_OL0126_M001	A



SERVICES PLAN



NOTES:

- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

SERVICES:



Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
Checked:	KS			
Approved:	HG			



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Design & Principal Consultant:



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Tel: +44 (0)1908 377 766
Email: info@ktl.ie

Site Name:

SADDLEWORTH GOLF CLUB

Site ID:

979927

Address:

MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT

Title:

005 SERVICES PLAN

Project:

VENDOR SWAP

Purpose of Issue:

GENERAL ARRANGEMENT

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No:	Issue:
979927_OLM007_52082_OL0126_M001	A

Live Technologies	Proposed Config	Achievable Config	Proposed MIMO Config	Achievable MIMO Config	CR Status
GSM;UMTS; LTE1800 Carrier1; LTE1800 Carrier2; NBIOT Carrier 1	18/18/21/26/26/80/70/3.5	18/18/21/26/26/80/70/3.5	18\21\26 @4x4; 70/80 @2x4; 3500 @32x32	18\21\26 @4x4; 70/80 @2x4; 3500 @32x32	N/A

FIXITS			
FIXIT TYPE	STATUS	FIXIT NUMBER	COMMENTS
Feeder Loss Insertation	Approved	109736	Feeder Insertion Loss - Greater than design limit set in TD52000

DEPENDENCY	STATUS	COMMENTS
Asbestos	N/A	-
Building Regulations Approval	N/A	-
Planning Conditions	TBC	-
RF Compliance TD54000 v11.0	Pass / Fail:	Sector A T&A - Stepdown 2.1
	TBC	Sector B T&A - Stepdown 2.1
		Sector C T&A - Stepdown 2.1
Global Design Check	Required	-
Geotech Report	N/A	-
Structural Calculations	N/A	-
Intrusive Building Survey	N/A	-
Rigging Survey	N/A	-
Power	Upgrade Required: No	Existing Single phase 100A REC supply within MK3 Link A/C cabinet
Line of Sight Survey	N/A	-
Cooling Solution	Indoor/outdoor: Outdoor	kW: - Status: - System: - Upgrade Required: -
Services Search	N/A	-
Trial Hole	N/A	-
Temporary Site	N/A	-
Other	-	-
Other	-	-

Note:
Proposed 20m monopole to be installed so antennas are relocated to new pole therefore antennas height changed. Nemesis data needs to be updated. V1CR approved.

STATUS KEY:

- Installed:** Existing
- Retain:** Existing and to remain
- Relocate:** Existing and to be relocated
- Remove:** Existing to be removed from site
- Proposed:** New on site

LOCATION KEY:

- Outdoor:** Located outside
- Indoor:** Located within an equipment cabin or equipment room
- Internal:** located inside a cabinet or item of equipment

Master: M001	MBNL / EE / H3G: MBNL	Project: Vendor swap	Purpose of Issue: Planning	Issue: A
Date: 28/09/2023	Drawn: PRS	Revision / Upgrade Description: First Issue		
Checked: KS	Approved: HG			



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Tel: +44 (0)1908 377 766
Email: info@ktl.ie

Site Name:
SADDLEWORTH GOLF CLUB

Site ID:
979927

Address:
**MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT**

Title:
006 FIXIT's & PROJECT DEPENDENCIES

Project:
VENDOR SWAP

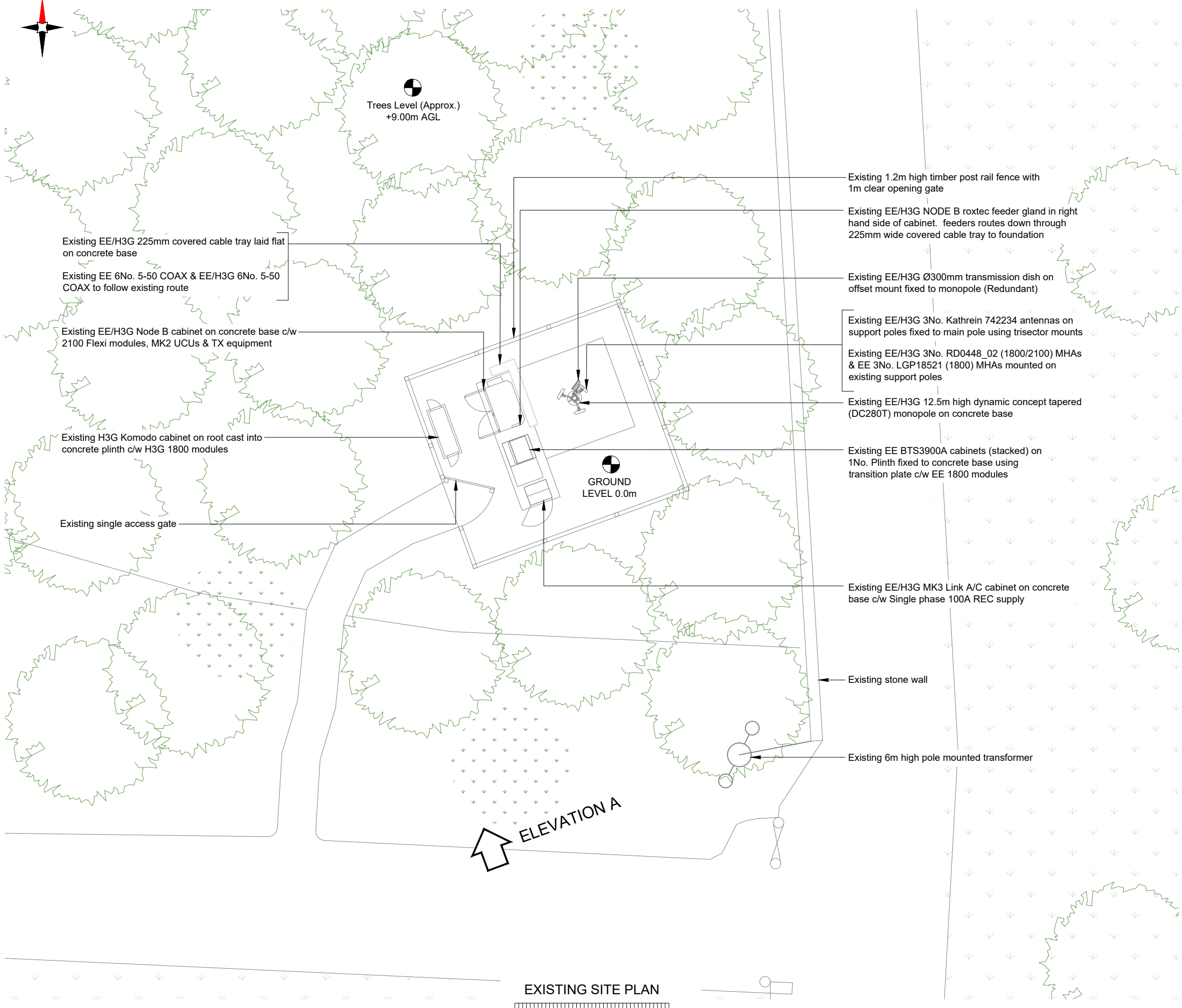
Purpose of Issue:
GENERAL ARRANGEMENT

EE Cell ID: 52082	MBNL Cell ID: OLM007	3UK Cell ID: OL0126
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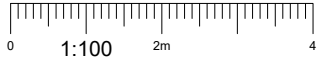
Master Drawing No: 979927_OLM007_52082_OL0126_M001	Issue: A
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Note:
Page is for Internal Distribution Only

100mm
50mm
10mm



EXISTING SITE PLAN



NOTES:
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
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Approved:	HG			



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Email: info@ktl.ie

Site Name:
SADDLEWORTH GOLF CLUB

Site ID:
979927

Address:
**MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT**

Title:
100 EXISTING SITE PLAN

Project:
VENDOR SWAP

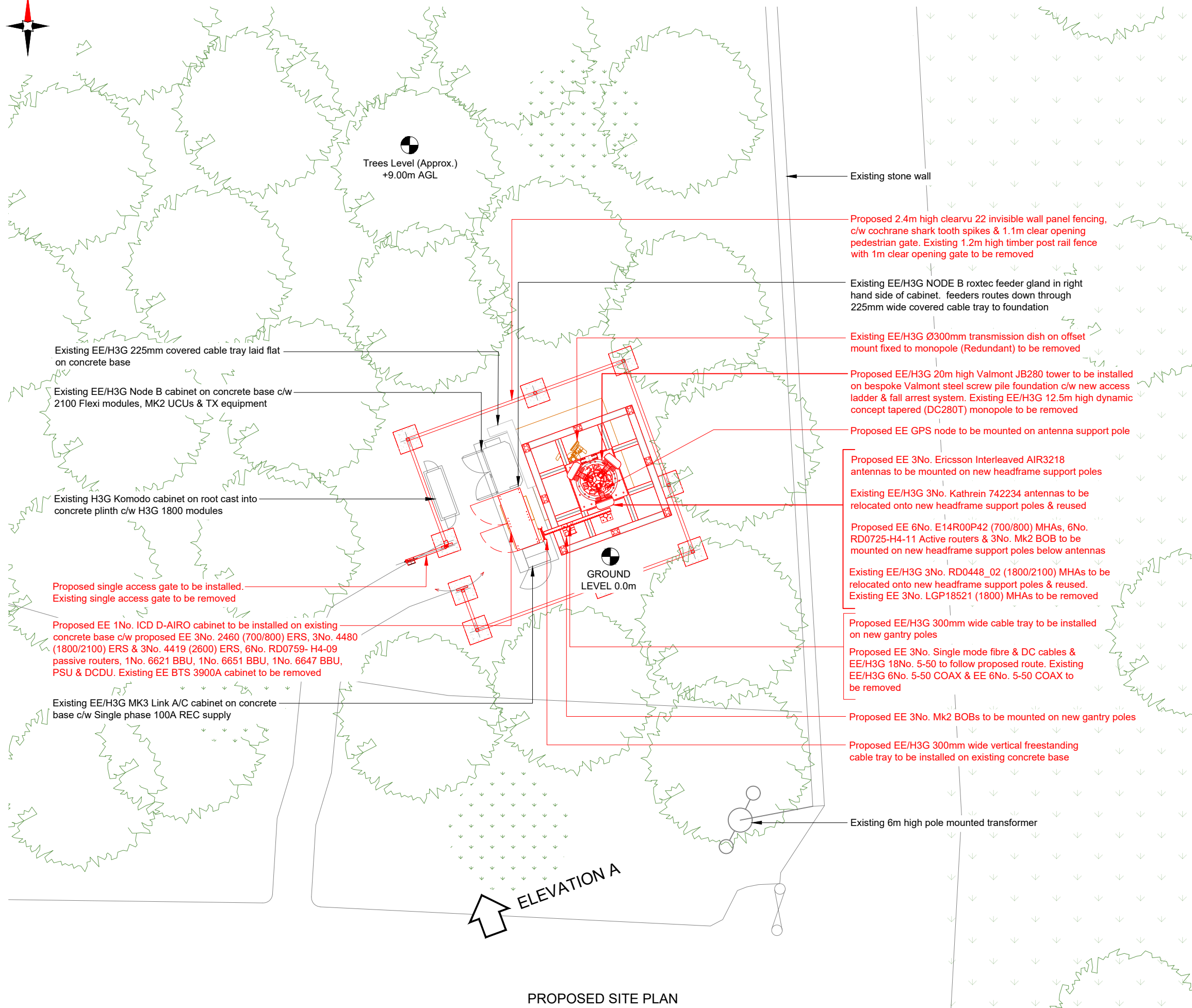
Purpose of Issue:
GENERAL ARRANGEMENT

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No:
979927_OLM007_52082_OL0126_M001

Issue:
A

100mm
50mm
10mm



NOTES:

1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Note:
All existing fibre / feeder cables to be re-used. Subject to testing. Un-used feeder cables to remain and be capped

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
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Approved:	HG			



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Email: info@ktl.ie

Site Name:

SADDLEWORTH GOLF CLUB

Site ID:

979927

Address:

MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT

Title:

150 PROPOSED SITE PLAN

Project:

VENDOR SWAP

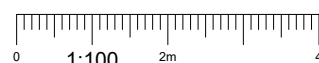
Purpose of Issue:

GENERAL ARRANGEMENT

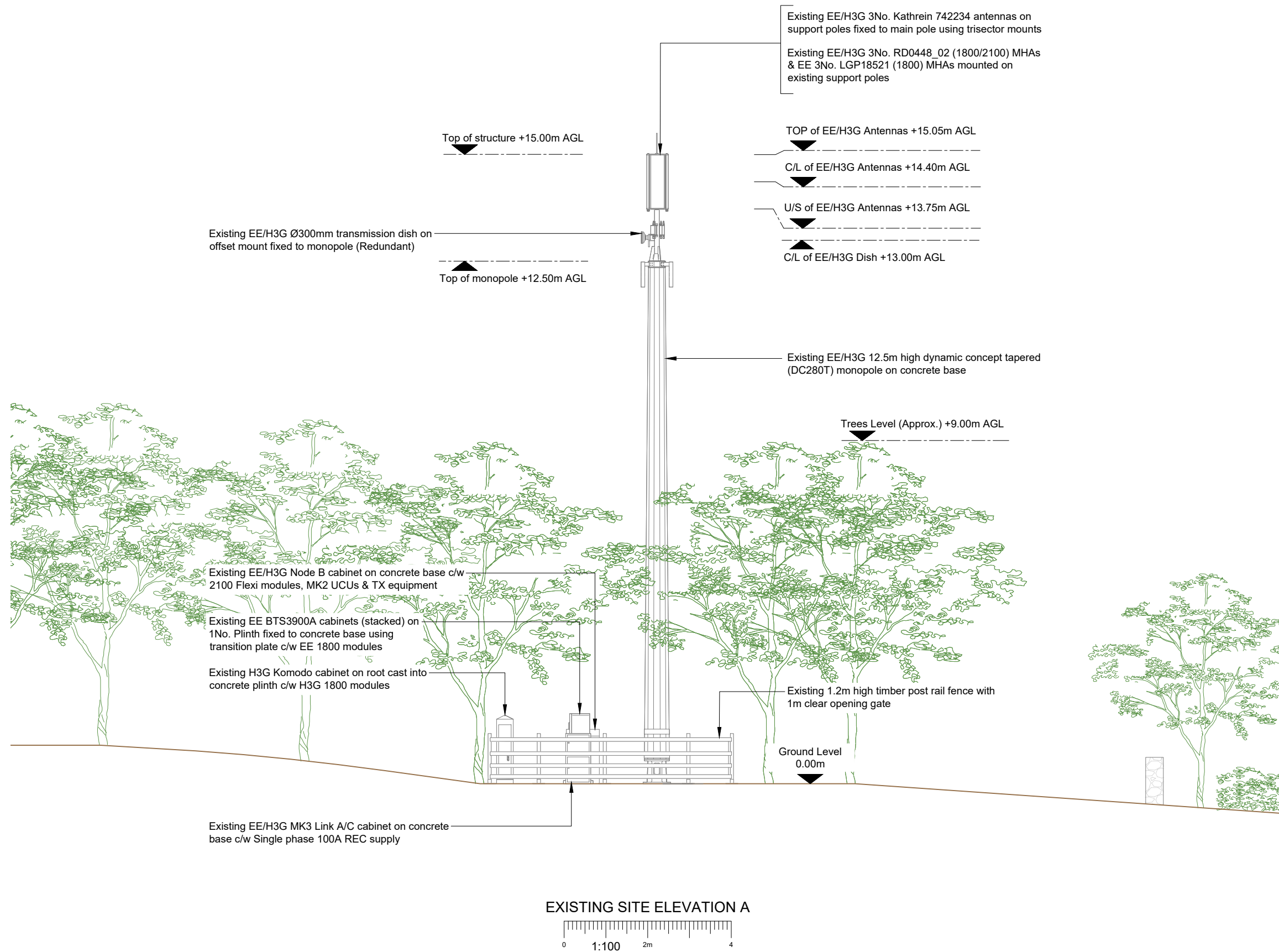
EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No:	Issue:
979927_OLM007_52082_OL0126_M001	A

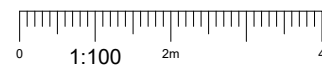
PROPOSED SITE PLAN



100mm
50mm
10mm



EXISTING SITE ELEVATION A



NOTES:
1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
Checked:	KS			
Approved:	HG			



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Email: info@ktl.ie

Site Name: **SADDLEWORTH GOLF CLUB**

Site ID: **979927**

Address:
**MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT**

Title: **200 EXISTING SITE ELEVATION A**

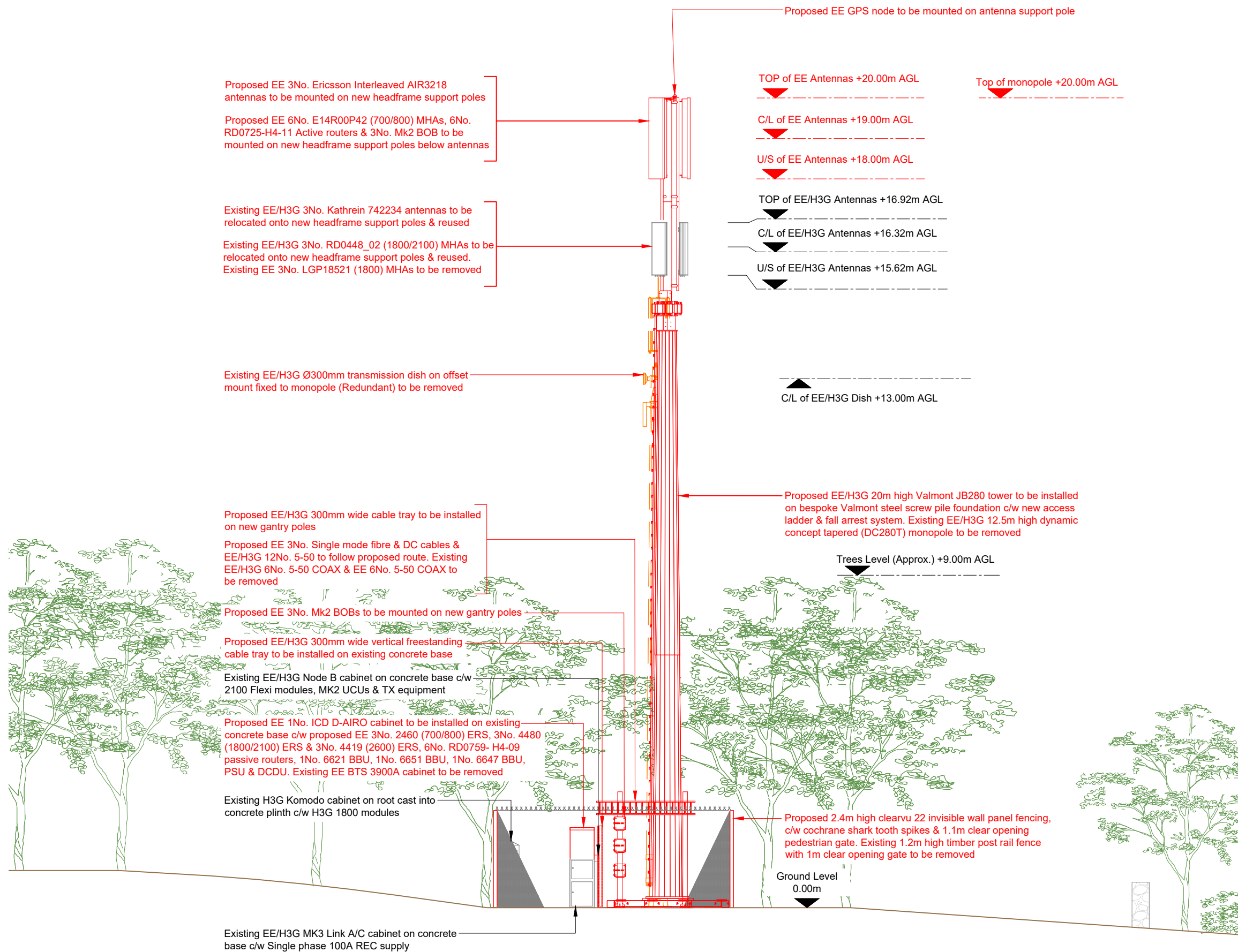
Project: **VENDOR SWAP**

Purpose of Issue: **GENERAL ARRANGEMENT**

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No: **979927_OLM007_52082_OL0126_M001** Issue: **A**

100mm
50mm
10mm



Proposed EE 3No. Ericsson Interleaved AIR3218 antennas to be mounted on new headframe support poles

Proposed EE 6No. E14R00P42 (700/800) MHAs, 6No. RD0725-H4-11 Active routers & 3No. Mk2 BOB to be mounted on new headframe support poles below antennas

Existing EE/H3G 3No. Kathrein 742234 antennas to be relocated onto new headframe support poles & reused

Existing EE/H3G 3No. RD0448_02 (1800/2100) MHAs to be relocated onto new headframe support poles & reused.

Existing EE 3No. LGP18521 (1800) MHAs to be removed

Existing EE/H3G Ø300mm transmission dish on offset mount fixed to monopole (Redundant) to be removed

Proposed EE/H3G 300mm wide cable tray to be installed on new gantry poles

Proposed EE 3No. Single mode fibre & DC cables & EE/H3G 12No. 5-50 to follow proposed route. Existing EE/H3G 6No. 5-50 COAX & EE 6No. 5-50 COAX to be removed

Proposed EE 3No. Mk2 BOBs to be mounted on new gantry poles

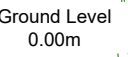
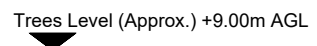
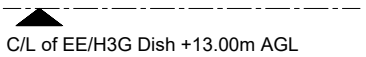
Proposed EE/H3G 300mm wide vertical freestanding cable tray to be installed on existing concrete base

Existing EE/H3G Node B cabinet on concrete base c/w 2100 Flexi modules, MK2 UCUs & TX equipment

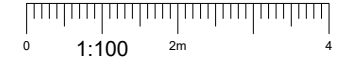
Proposed EE 1No. ICD D-AIRO cabinet to be installed on existing concrete base c/w proposed EE 3No. 2460 (700/800) ERS, 3No. 4480 (1800/2100) ERS & 3No. 4419 (2600) ERS, 6No. RD0759- H4-09 passive routers, 1No. 6621 BBU, 1No. 6651 BBU, 1No. 6647 BBU, PSU & DCDCU. Existing EE BTS 3900A cabinet to be removed

Existing H3G Komodo cabinet on root cast into concrete plinth c/w H3G 1800 modules

Existing EE/H3G MK3 Link A/C cabinet on concrete base c/w Single phase 100A REC supply



PROPOSED SITE ELEVATION A



NOTES:

1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Note:
All existing fibre / feeder cables to be re-used. Subject to testing. Un-used feeder cables to remain and be capped

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
Checked:	KS			
Approved:	HG			



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Email: info@ktl.ie

Site Name:

SADDLEWORTH GOLF CLUB

Site ID:

979927

Address:

MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT

Title:

250 PROPOSED SITE ELEVATION A

Project:

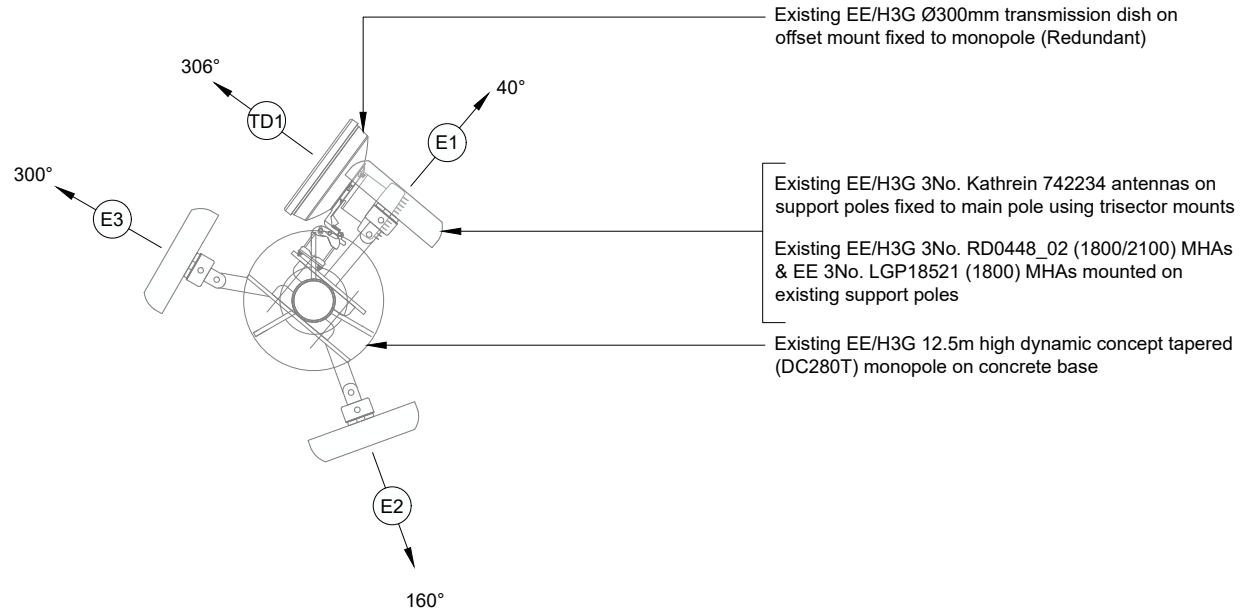
VENDOR SWAP

Purpose of Issue:

GENERAL ARRANGEMENT

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No:	Issue:
979927_OLM007_52082_OL0126_M001	A



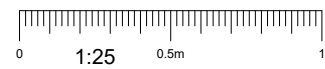
Existing EE/H3G Ø300mm transmission dish on offset mount fixed to monopole (Redundant)

Existing EE/H3G 3No. Kathrein 742234 antennas on support poles fixed to main pole using trisector mounts

Existing EE/H3G 3No. RD0448_02 (1800/2100) MHAs & EE 3No. LGP18521 (1800) MHAs mounted on existing support poles

Existing EE/H3G 12.5m high dynamic concept tapered (DC280T) monopole on concrete base

EXISTING ANTENNA PLAN



NOTES:

- ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.

Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
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Site ID:

979927

Address:

MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT

Title:

310a ANTENNA PLAN

Project:

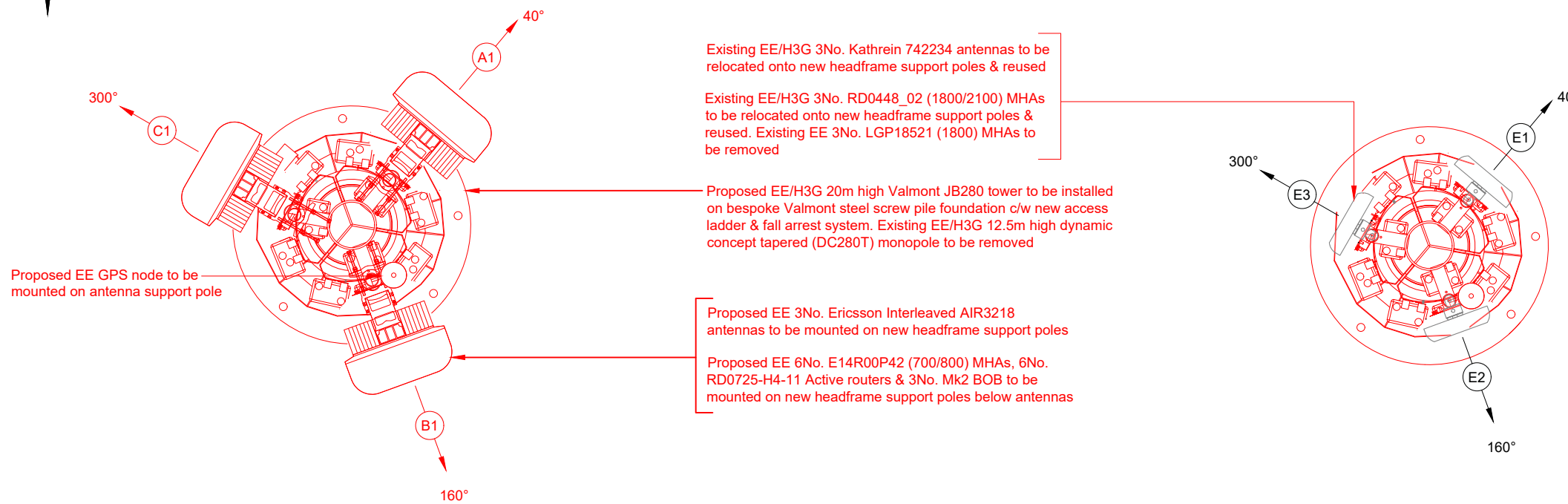
VENDOR SWAP

Purpose of Issue:

GENERAL ARRANGEMENT

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No:	Issue:
979927_OLM007_52082_OL0126_M001	A



Existing EE/H3G 3No. Kathrein 742234 antennas to be relocated onto new headframe support poles & reused

Existing EE/H3G 3No. RD0448_02 (1800/2100) MHAs to be relocated onto new headframe support poles & reused. Existing EE 3No. LGP18521 (1800) MHAs to be removed

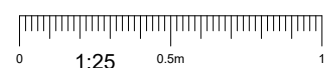
Proposed EE/H3G 20m high Valmont JB280 tower to be installed on bespoke Valmont steel screw pile foundation c/w new access ladder & fall arrest system. Existing EE/H3G 12.5m high dynamic concept tapered (DC280T) monopole to be removed

Proposed EE 3No. Ericsson Interleaved AIR3218 antennas to be mounted on new headframe support poles

Proposed EE 6No. E14R00P42 (700/800) MHAs, 6No. RD0725-H4-11 Active routers & 3No. Mk2 BOB to be mounted on new headframe support poles below antennas

Proposed EE GPS node to be mounted on antenna support pole

PROPOSED ANTENNA PLAN



100mm
50mm
10mm

EXISTING ANTENNA SCHEDULE

ANTENNAS							FEEDER/FIBRE					BOBS / MHA's / RRU's / JUMPERS / ROUTERS										Antenna Status / Additional comments		
Antenna ID	Antenna Manufacturer & Type	Antenna AGL (m) TOP C/L U/S	Antenna Bearing (°)	Operator	Spectrum Port number	Tech Deployed	Type & Length(m)				Main Feeder Type (COAX or Fibre)	Main Feeders QTY	Fibre Trunk Length	BOB Low Level QTY / TYPE	BBU to BOB length (m)	BOB High Level QTY / Type	BOB to RRU / AAU Length (m)	RRU / RRU / AAU (RRU Type to be called off)	RRU to Antenna Length (m)	MHA Type	Passive Router (Low Level)		Active Router (High Level)	COAX Feeder Loss (db)
							Low level Jumper	Main Feeder	High Level Jumper 1 (MHA)	High Level Jumper 2 (router/combiner)														
E1	Kathrein 742234	15.05 14.40 13.75	40°	EE/H3G	1 - 2	1800/2100	4-50=2m	5-50=17m	4-50=2m	-	21m	COAX	2No. Existing	-	-	-	-	-	RFU	-	RD0448_02	-	-	-2.33/ -2.15
							EE	3 - 4	1800	4-50=2m	5-50=17m	4-50=2m	-	21m	COAX	2No. Existing	-	-	-	-	-	RFU	-	LGP18521
E2	Kathrein 742234	15.05 14.40 13.75	160°	EE/H3G	1 - 2	1800/2100	4-50=2m	5-50=17m	4-50=2m	-	21m	COAX	2No. Existing	-	-	-	-	-	RFU	-	RD0448_02	-	-	-2.33/ -2.15
							EE	3 - 4	1800	4-50=2m	5-50=17m	4-50=2m	-	21m	COAX	2No. Existing	-	-	-	-	-	RFU	-	LGP18521
E3	Kathrein 742234	15.05 14.40 13.75	300°	EE/H3G	1 - 2	1800/2100	4-50=2m	5-50=17m	4-50=2m	-	21m	COAX	2No. Existing	-	-	-	-	-	RFU	-	RD0448_02	-	-	-2.33/ -2.15
							EE	3 - 4	1800	4-50=2m	5-50=17m	4-50=2m	-	21m	COAX	2No. Existing	-	-	-	-	-	RFU	-	LGP18521

Master: M001	MBNL / EE / H3G	Project: Vendor swap	Purpose of Issue: Planning	Issue: A
Date: 28/09/2023	Revision / Upgrade Description: First Issue			
Drawn: PRS				
Checked: KS				
Approved: HG				



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Site Name: **SADDLEWORTH GOLF CLUB**

Site ID: **979927**

Address: **MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT**

Title: **320 EXISTING ANTENNA SCHEDULE**

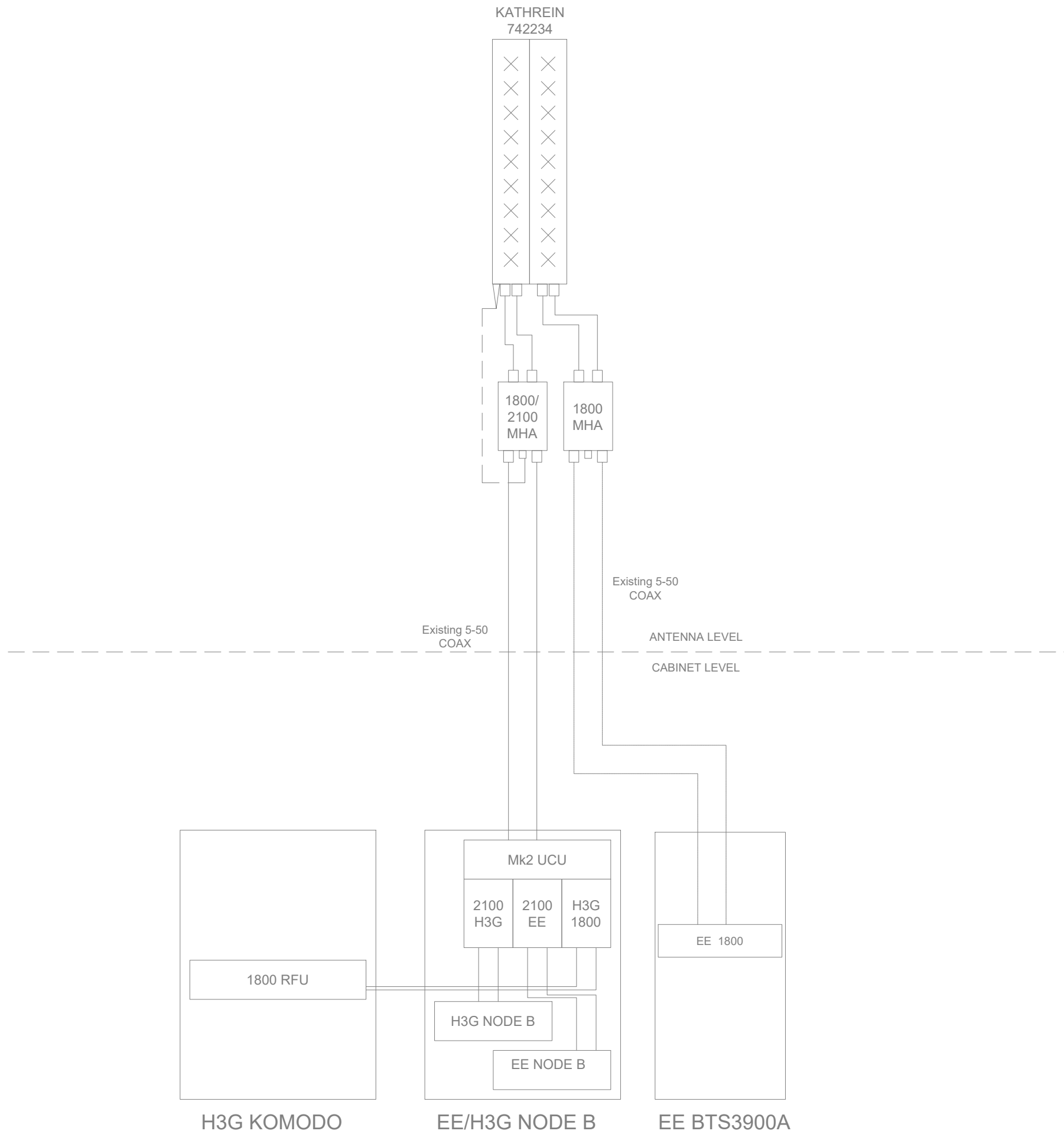
Project: **VENDOR SWAP**

Purpose of Issue: **GENERAL ARRANGEMENT**

EE Cell ID: 52082	MBNL Cell ID: OLM007	3UK Cell ID: OL0126
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Master Drawing No: **979927_OLM007_52082_OL0126_M001** Issue: **A**

100mm
50mm
10mm



Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
Checked:	KS			
Approved:	HG			



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Site Name:

SADDLEWORTH GOLF CLUB

Site ID:

979927

Address:

MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT

Title:

325 EXISTING LINE CONFIGURATION

Project:

VENDOR SWAP

Purpose of Issue:

GENERAL ARRANGEMENT

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No:	Issue:
979927_OLM007_52082_OL0126_M001	A

PROPOSED ANTENNA SCHEDULE (Proposed / Existing-Remain)

ANTENNAS							FEEDER/FIBRE					BOBS / MHA's / RRU's / JUMPERS / ROUTERS										Antenna Status / Additional comments			
Antenna ID	Antenna Manufacturer & Type	Antenna AGL (m) TOP C/L U/S	Antenna Bearing (°)	Operator	Spectrum Port number	Tech Deployed	Type & Length(m)				Main Feeder Type (COAX or Fibre)	Main Feeders QTY Existing / Proposed	Fibre Trunk Length	BOB Low Level QTY / TYPE	BBU to BOB length (m)	BOB High Level QTY / Type	BOB to RRU / AAU Length (m)	RFU / RRU / AAU (RRU Type to be called off)	RRU to Antenna Length (m)	MHA Type	Passive Router (Low Level)	Active Router (High Level)	COAX Feeder Loss (db)		
							Low level Jumper	Main Feeder	High Level Jumper 1 (MHA)	High Level Jumper 2 (router/combiner)														Total	
A1	Interleaved AIR 3218	20.00 19.00 18.00	40°	EE	1 - 2	700/800	4-50 =2m	5-50 =25m	4-50 =2m	4-50 =2m	31m	COAX	2No. Proposed	-	-	-	-	2460 ERS	-	E14R00P42	RD0759-H4-09	RD0725-H4-11	-1.73		
					3 - 4	700/800	4-50 =2m	5-50 =25m	4-50 =2m	4-50 =2m	31m	COAX	2No. Proposed	-	-	-	-	-	-	2460 ERS	-	E14R00P42	RD0759-H4-09	RD0725-H4-11	-1.73
					5 - 6	1800/2100	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Proposed	-	-	-	-	-	-	4480 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.26/ -3.26
					7 - 8	1800/2100	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Proposed	-	-	-	-	-	-	4480 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.26/ -3.26
					9-10	2600	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Proposed	-	-	-	-	-	-	4419 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.70
					11-12	2600	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Proposed	-	-	-	-	-	-	4419 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.70
				EE	-	3500	-	-	-	-	-	Single mode DC Fibre	1No. Proposed	30m	MK2 BOB	2m	MK2 BOB	2m	Active antenna	-	-	-	-		
E1	Kathrein 742234	16.92 16.32 15.62	40°	EE/H3G	1 - 2	1800/2100	4-50=2m	5-50=25m	4-50=2m	-	29m	COAX	2No. Proposed	-	-	-	-	RFU	-	RD0448_02	-	-	-2.65/ -2.43		
				-	3 - 4	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
B1	Interleaved AIR 3218	20.00 19.00 18.00	160°	EE	1 - 2	700/800	4-50 =2m	5-50 =25m	4-50 =2m	4-50 =2m	31m	COAX	2No. Existing	-	-	-	-	2460 ERS	-	E14R00P42	RD0759-H4-09	RD0725-H4-11	-1.73		
					3 - 4	700/800	4-50 =2m	5-50 =25m	4-50 =2m	4-50 =2m	31m	COAX	2No. Proposed	-	-	-	-	-	-	2460 ERS	-	E14R00P42	RD0759-H4-09	RD0725-H4-11	-1.73
					5 - 6	1800/2100	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Existing	-	-	-	-	-	-	4480 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.26/ -3.26
					7 - 8	1800/2100	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Proposed	-	-	-	-	-	-	4480 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.26/ -3.26
					9-10	2600	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Existing	-	-	-	-	-	-	4419 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.70
					11-12	2600	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Proposed	-	-	-	-	-	-	4419 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.70
				EE	-	3500	-	-	-	-	-	Single mode DC Fibre	1No. Proposed	30m	MK2 BOB	2m	MK2 BOB	2m	Active antenna	-	-	-	-		
E2	Kathrein 742234	16.92 16.32 15.62	160°	EE/H3G	1 - 2	1800/2100	4-50=2m	5-50=25m	4-50=2m	-	29m	COAX	2No. Proposed	-	-	-	-	RFU	-	RD0448_02	-	-	-2.65/ -2.43		
				-	3 - 4	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
C1	Interleaved AIR 3218	20.00 19.00 18.00	300°	EE	1 - 2	700/800	4-50 =2m	5-50 =25m	4-50 =2m	4-50 =2m	31m	COAX	2No. Existing	-	-	-	-	2460 ERS	-	E14R00P42	RD0759-H4-09	RD0725-H4-11	-1.73		
					3 - 4	700/800	4-50 =2m	5-50 =25m	4-50 =2m	4-50 =2m	31m	COAX	2No. Proposed	-	-	-	-	-	-	2460 ERS	-	E14R00P42	RD0759-H4-09	RD0725-H4-11	-1.73
					5 - 6	1800/2100	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Existing	-	-	-	-	-	-	4480 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.26/ -3.26
					7 - 8	1800/2100	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Proposed	-	-	-	-	-	-	4480 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.26/ -3.26
					9-10	2600	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Existing	-	-	-	-	-	-	4419 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.70
					11-12	2600	4-50 =2m	5-50 =25m	4-50 =2m	-	29m	COAX	2No. Proposed	-	-	-	-	-	-	4419 ERS	-	-	RD0759-H4-09	RD0725-H4-11	-3.70
				EE	-	3500	-	-	-	-	-	Single mode DC Fibre	1No. Proposed	30m	MK2 BOB	2m	MK2 BOB	2m	Active antenna	-	-	-	-		
E3	Kathrein 742234	16.92 16.32 15.62	300°	EE/H3G	1 - 2	1800/2100	4-50=2m	5-50=25m	4-50=2m	-	29m	COAX	2No. Proposed	-	-	-	-	RFU	-	RD0448_02	-	-	-2.65/ -2.43		
				-	3 - 4	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Note:
Proposed 20m monopole to be installed so antennas are relocated to new pole therefore antennas height changed. Nemesis data needs to be updated. V1CR approved.

Master: M001	MBNL / EE / H3G: MBNL	Project: Vendor swap	Purpose of Issue: Planning	Issue: A
Date: 28/09/2023	Drawn: PRS	Revision / Upgrade Description: First Issue		
Checked: KS	Approved: HG			



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Site Name: **SADDLEWORTH GOLF CLUB**

Site ID: **979927**

Address: **MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT**

Title: **330 PROPOSED ANTENNA SCHEDULE**

Project: **VENDOR SWAP**

Purpose of Issue: **GENERAL ARRANGEMENT**

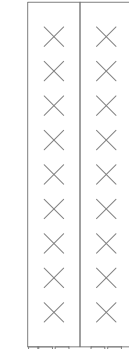
EE Cell ID: 52082	MBNL Cell ID: OLM007	3UK Cell ID: OL0126
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Master Drawing No: 979927_OLM007_52082_OL0126_M001	Issue: A
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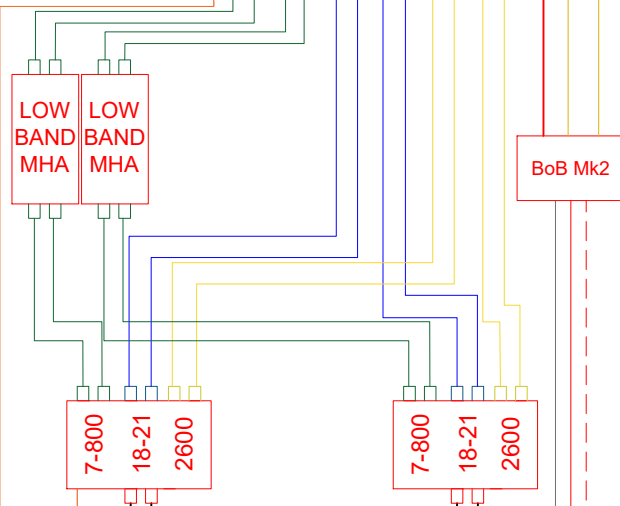
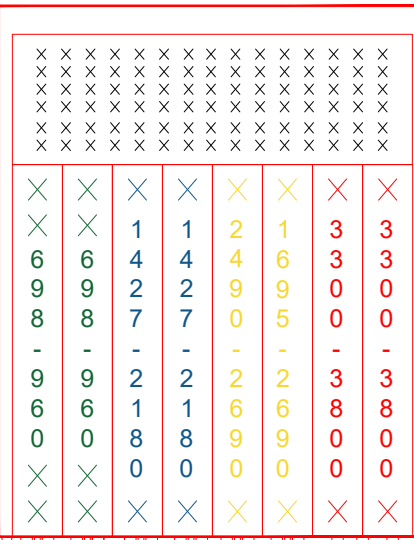
100mm
50mm
10mm

ERICSSON INTERLEAVED
AIR 3218 2.0m

KATHREIN
742234



1800/
2100
MHA



Note: 2nd DC cable shown as a dashed line, requirement is subject to Electrical calcs

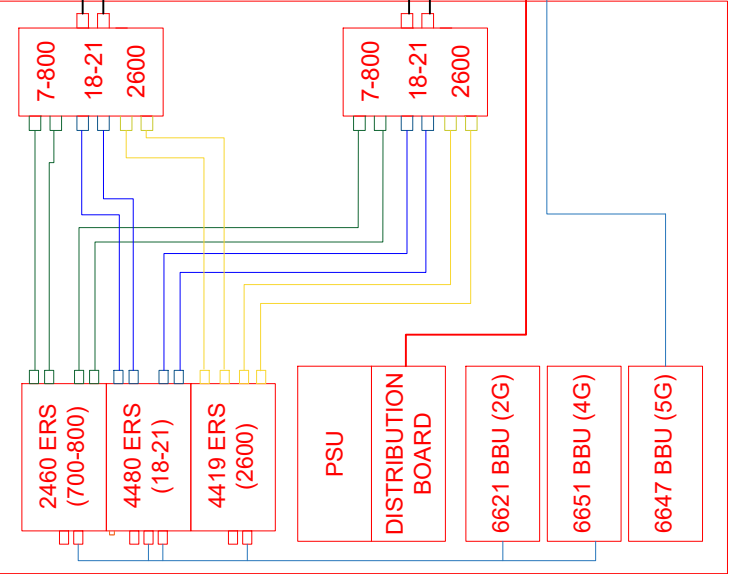
HIGH LEVEL EQUIPMENT
LOW LEVEL EQUIPMENT

Proposed 5-50 COAX

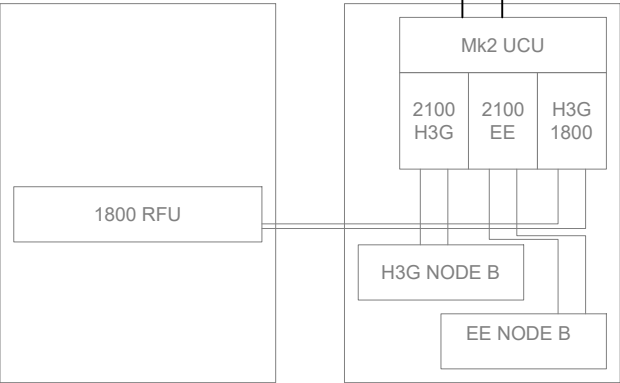
Proposed 5-50 COAX

Proposed 5-50 COAX

Proposed Single mode & DC fibre



ICD D-AIRO (OUTDOOR)



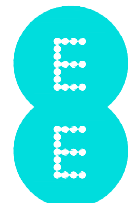
H3G KOMODO

EE/H3G NODE B

Key

Description	Line Style
Proposed 700/800	—
Proposed 3G 1800/2100	—
Proposed LTE 1800/2100	—
Proposed 2600	—
Existing Feeders, Jumpers, Equipment	—
Proposed Feeders, Multimode Fibre Trunking & Equipment	—
Proposed Power Cables	—
Proposed Single Mode Fibre Trunking	—
RET Cables	—

Master: M001	MBNL / EE / H3G: MBNL	Project: Vendor swap	Purpose of Issue: Planning	Issue: A
Date: 28/09/2023	Revision / Upgrade Description: First Issue			
Drawn: PRS				
Checked: KS				
Approved: HG				



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Site Name: SADDLEWORTH GOLF CLUB

Site ID: 979927

Address: MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT

Title: 335 PROPOSED LINE CONFIGURATION

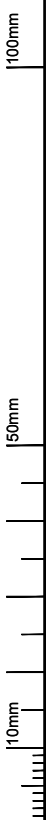
Project: VENDOR SWAP

Purpose of Issue: GENERAL ARRANGEMENT

EE Cell ID: 52082	MBNL Cell ID: OLM007	3UK Cell ID: OL0126
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Master Drawing No: 979927_OLM007_52082_OL0126_M001	Issue: A
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Proposed Operators Carrier Count	
Frequency	Count:
700	1
800	1
1800	2
2100	1
2600	2
3500	1



Support Structure Schedule

Structure ID	Status	Height / Length AGL (m)	Structure Manufacturer	Description / Type	Colour / Finishing (RAL Colour)	Size (mm)	Foundation / Support Grillage / Host Structure Details	Comments
ST1	Remove	12.5m	-	High Dynamic Monopole Tower	Galvanised	-	Root Foundation	-
ST2	Proposed	20.0m	Valmont	JB280 monopole	Galvanised	-	Valmont Screwpile	Approx weight of pole & rigged equipment = 2.500kg

STATUS KEY:

Installed: Existing
Retain: Existing and to remain
Relocate: Existing and to be relocated
Remove: Existing to be removed from site
Proposed: New on site

LOCATION KEY:

Outdoor: Located outside
Indoor: Located within an equipment cabin or equipment room
Internal: located inside a cabinet or item of equipment

Equipment Schedule

Equipment ID	Operator	Quantity	Status	Equipment Manufacturer	Equipment Description / Type	Dimensions (W x D x H)	Weight (kg)	Colour (RAL Colour)	Location	Comments
CAB1	EE/H3G	1	Existing	Alifabs	MK3 Link AC cabinet	1200x600x500	150kg	RAL 6009	Ground Level	-
CAB2	H3G	1	Existing	Commscope	Komodo	1570x1230x402	150kg	RAL 7035	Ground Level	-
CAB3	EE/H3G	1	Existing	Nokia	Node B Cabinet	1240x900x800	300kg	RAL 7035	Ground Level	-
CAB4	EE	1	Remove	Huawei	BTS 3900A (Stacked)	1400x600x480	207kg	RAL 7035	Ground Level	-
CAB5	EE	1	Proposed	ICD	D-AIRO Cabinet	1979x1500x505	350kg	RAL 7035	Ground Level	-
AMP1-3	EE/H3G	3	Existing	Radio Design	RD0448_02	96x169x230	5kg	RAL 7035	Structure High Level	For 1800/2100 Technology
AMP4-6	EE	3	Remove	Power Wave	LGP18521	169x272.5x67.7	4.5kg	RAL 7035	Structure High Level	For 1800 Technology
AMP7-12	EE	6	Proposed	Commscope	E14R00P42	140x177x260	11kg	RAL 7035	Structure High Level	For 700/800 Technology
AR1-6	EE	6	Proposed	Radio Design	RD0725-H4-11	110X254X294	11.5kg	RAL 7035	Structure High Level	-
PR1-6	EE	6	Proposed	Radio Design	RD0759-H4-09	264x217x108	8kg	RAL 7035	Within Cabinet	-
BT1-3	EE	3	Proposed	Commscope	MK2 BOB	317.5x266.7x152.4	2.268kg	RAL 7035	Structure High Level	-
BB1-3	EE	3	Proposed	Commscope	MK2 BOB	317.5x266.7x152.4	2.268kg	RAL 7035	Gantry Pole	-
ERS1-3	EE	3	Proposed	Ericsson	4480 ERS	553x398x151	32kg	RAL 7035	Within Cabinet	For 1800/2100 Technology
ERS4-6	EE	3	Proposed	Ericsson	4419 ERS	477x398x153	21kg	RAL 7035	Within Cabinet	For 2600 Technology
ERS7-9	EE	3	Proposed	Ericsson	2460 ERS	553x398x190	37.5kg	RAL 7035	Within Cabinet	For 700/800 technology
BBU 1	EE	1	Proposed	Ericsson	6621 BBU	44.5x447x350	6.5kg	RAL 7035	Within Cabinet	2G BBU Within D-AIRO cabinet
BBU 2	EE	1	Proposed	Ericsson	6651 BBU	44.5x447x352	7.5kg	RAL 7035	Within Cabinet	4G BBU Within D-AIRO cabinet
BBU 3	EE	1	Proposed	Ericsson	6647 BBU	44.5x447x352	7.5kg	RAL 7035	Within Cabinet	5G BBU Within D-AIRO cabinet
GPS 1	EE	1	Proposed	Rosenberger	GNSS GPS Node	95x78x78	0.2kg	RAL 7035	Structure High Level	-

Master: M001	MBNL / EE / H3G: MBNL	Project: Vendor swap	Purpose of Issue: Planning	Issue: A
Date: 28/09/2023	Revision / Upgrade Description: First Issue			
Drawn: PRS				
Checked: KS				
Approved: HG				

8E

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 Email: info@ktl.ie

Site Name:

SADDLEWORTH GOLF CLUB

Site ID:

979927

Address:

MOUNTAIN ASH
 LADCASTLE ROAD
 UPPERMILL
 OLDHAM
 OL3 6LT

GPS NODE Schedule

Equipment ID	Supply Status	Operator	Height (C/L) AGL	Cable Length	Cable type	Location	Comments
GPS1	Proposed	EE	20.05m	25.0m	4-50	Antenna pole	Fixed to top of Antenna pole

Title: 400 EQUIPMENT SCHEDULE & SUPPORT STRUCTURE DETAILS

Project:

VENDOR SWAP

Purpose of Issue:

GENERAL ARRANGEMENT

EE Cell ID: 52082	MBNL Cell ID: OLM007	3UK Cell ID: OL0126
-------------------	----------------------	---------------------

Master Drawing No:

979927_OLM007_52082_OL0126_M001

Issue:

A

100mm

50mm

10mm

AC Power Schedule								
Equipment ID	Supply Status	Operator	Type	Incoming Supply Type	Meter / Service head / location	Distribution Board Manufacturer (cabins / internal rooms)	Upgrade Required (Y / N / TBC at DD)	Comments
CAB1	Existing	EE/H3G	Mk3 Link AC cabinet	Single Phase	Ground Level	Hager	N	-

STATUS KEY:

Installed: Existing
Retain: Existing and to remain
Relocate: Existing and to be relocated
Remove: Existing to be removed from site
Proposed: New on site

LOCATION KEY:

Outdoor: Located outside
Indoor: Located within an equipment cabin or equipment room
Internal: located inside a cabinet or item of equipment

DC Power Schedule							
Supply Status	Operator	Enclosure / Location	Model	Rectifier		Upgrade Required (Y / N / TBC at DD)	Comments
				QTY	Size (kw)		
Existing	EE/H3G	Mk3 Link AC cabinet	Flatpack 2	2	1.8	N	-
Proposed	EE	D-AIRO	PSU	TBC	TBC	-	-

Transmission Supply Schedule

Equipment ID	Supply Status	Operator	Enclosure	Type:	Supplier Name	U-Space Available	Comments
CAB2	Existing	EE/H3G	Node B cabinet	Microwave Only	-	10U	-

Master: M001	MBNL / EE / H3G:	Project: Vendor swap	Purpose of Issue: Planning	Issue: A
Date: 28/09/2023	Revision / Upgrade Description: First Issue			
Drawn: PRS				
Checked: KS				
Approved: HG				


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Transmission Dish Schedule

Equipment ID	Supply Status	Size Ø (mm)	Colour (RAL Colour)	Height (C/L) AGL	Bearing (°) EGN	Link Ref:	Relocation height (if required)	Comments (capture lift and shift requirements)
TD1	Remove	Ø300	RAL 9010	13.00m	306°	-	-	Redundant

Site Name: **SADDLEWORTH GOLF CLUB**

Site ID: **979927**

Address: **MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT**

Title: **401 POWER & TRANSMISSION SCHEDULE**

Project: **VENDOR SWAP**

Purpose of Issue: **GENERAL ARRANGEMENT**

EE Cell ID: 52082	MBNL Cell ID: OLM007	3UK Cell ID: OL0126
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Master Drawing No: **979927_OLM007_52082_OL0126_M001** Issue: **A**





Sector A	T&A - Stepdown 2.1
Sector B	T&A - Stepdown 2.1
Sector C	T&A - Stepdown 2.1

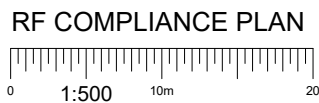
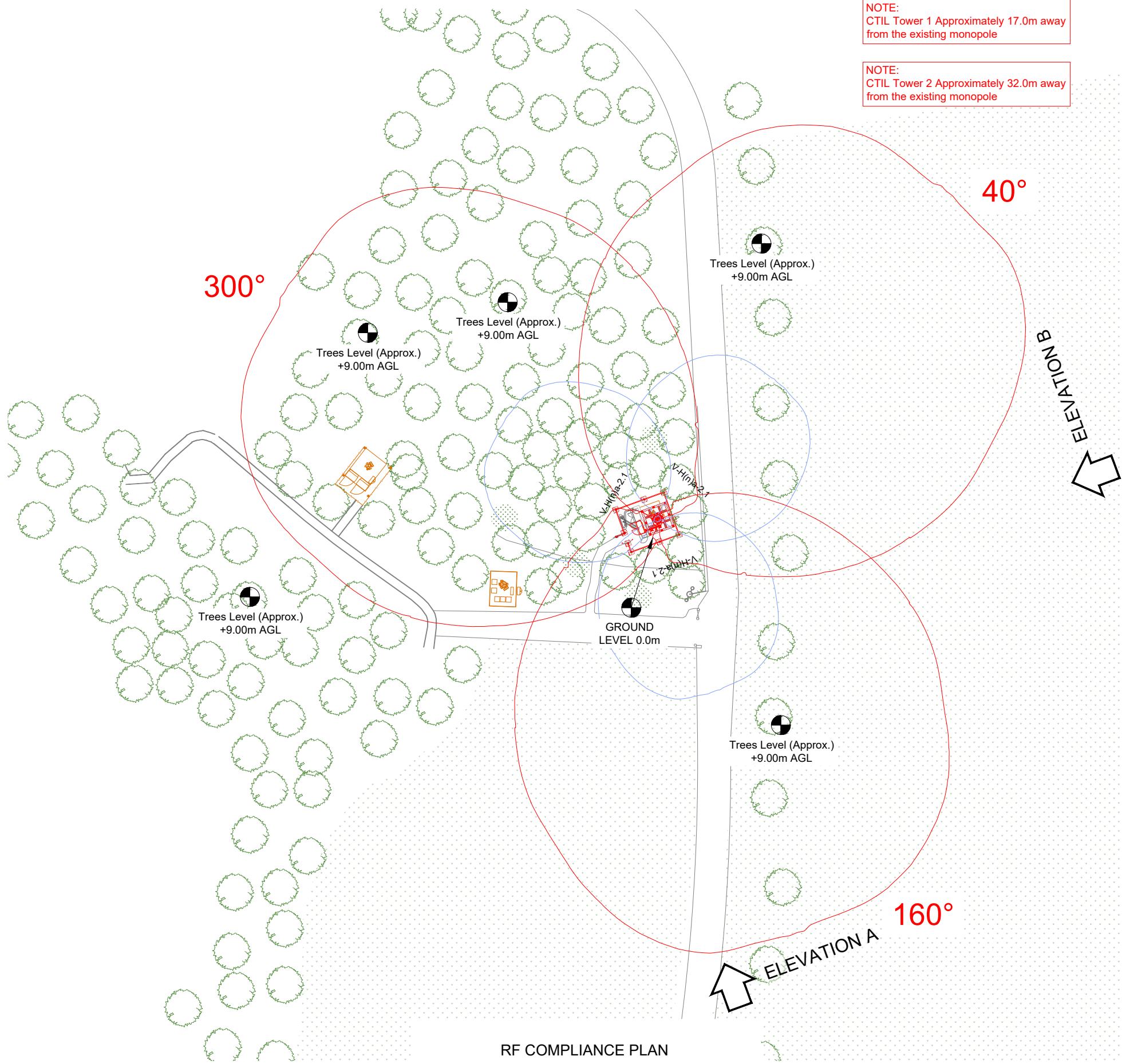
Operators on site (or within 100m)	
EE	Yes
H3G	Yes
CTIL	Yes
UKBB	
Airwave	
Broadcast	
Other	

NOTES:

1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
2. REFER TO TD54000 v11.0 FOR MBNL RF COMPLIANCE GUIDANCE.

NOTE:
CTIL Tower 1 Approximately 17.0m away from the existing monopole

NOTE:
CTIL Tower 2 Approximately 32.0m away from the existing monopole



Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
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Site Name:
SADDLEWORTH GOLF CLUB

Site ID:
979927

Address:
**MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT**

Title:
500 RF COMPLIANCE PLAN

Project:
VENDOR SWAP

Purpose of Issue:
GENERAL ARRANGEMENT

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No:	Issue:
979927_OLM007_52082_OL0126_M001	A

100mm
50mm
10mm

Sector A	T&A - Stepdown 2.1
Sector B	T&A - Stepdown 2.1
Sector C	T&A - Stepdown 2.1

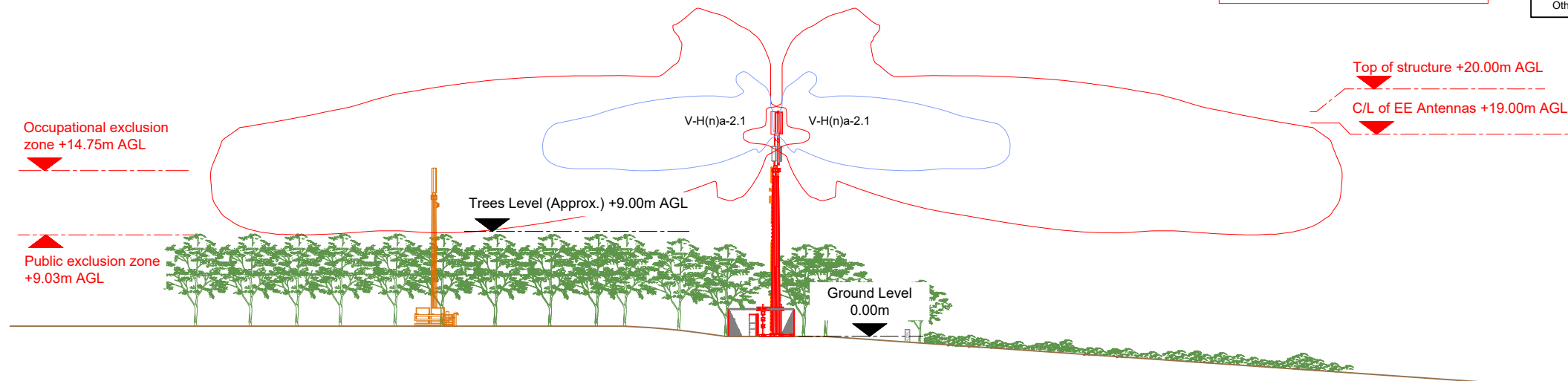
NOTES:

1. ALL DIMENSIONS IN MM UNLESS OTHERWISE NOTED.
2. REFER TO TD54000 v11.0 FOR MBNL RF COMPLIANCE GUIDANCE.

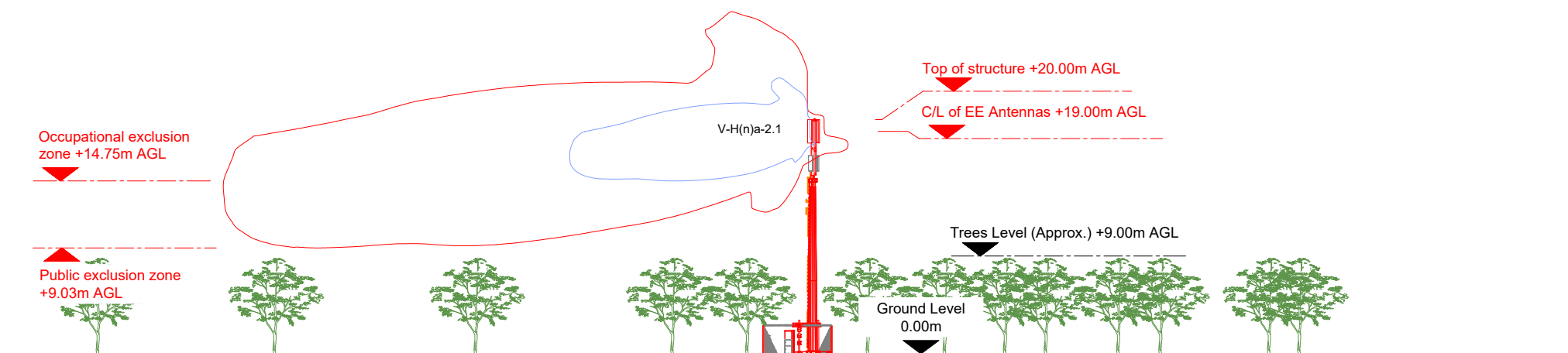
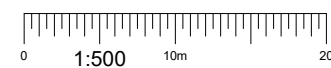
Operators on site (or within 100m)	
EE	Yes
H3G	Yes
CTIL	Yes
UKBB	
Airwave	
Broadcast	
Other	

NOTE:
CTIL Tower 1 Approximately 17.0m away from the existing monopole

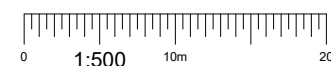
NOTE:
CTIL Tower 2 Approximately 32.0m away from the existing monopole



RF COMPLIANCE ELEVATION A



RF COMPLIANCE ELEVATION B



Master:	MBNL / EE / H3G:	Project:	Purpose of Issue:	Issue:
M001	MBNL	Vendor swap	Planning	A
Date:	28/09/2023	Revision / Upgrade Description:		
Drawn:	PRS	First Issue		
Checked:	KS			
Approved:	HG			



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Tel: +44 (0)1908 377 766
Email: info@ktl.ie

Site Name:

SADDLEWORTH GOLF CLUB

Site ID:

979927

Address:

MOUNTAIN ASH
LADCASTLE ROAD
UPPERMILL
OLDHAM
OL3 6LT

Title:

510 RF COMPLIANCE ELEVATION A & B

Project:

VENDOR SWAP

Purpose of Issue:

GENERAL ARRANGEMENT

EE Cell ID:	MBNL Cell ID:	3UK Cell ID:
52082	OLM007	OL0126

Master Drawing No:	Issue:
979927_OLM007_52082_OL0126_M001	A