

EXISTING EQUIPMENT

CABINET DETAILS:

BTS 3900A (STACKED) ON 200 PLINTH ON ROOFTOP STEEL GRILLAGE
 DIMENSIONS: 600x480x1600 HIGH
 MATERIAL: STEEL
 COLOUR: GREY

FLEXI BTS (STACKED) CABINET ON STEEL ON ROOFTOP GRILLAGE
 DIMENSIONS: 492x560x1300 HIGH
 MATERIAL: STEEL
 COLOUR: GREY

LINK/AC MKA 4 CABINET ON ON ROOFTOP STEEL GRILLAGE
 DIMENSIONS: 600x500x1240 HIGH
 MATERIAL: STEEL
 COLOUR: DARK GREEN

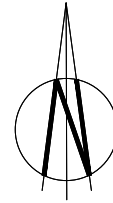
METER CABINET AT GROUND LEVEL
 DIMENSIONS: 790x385x1300 HIGH
 MATERIAL: STEEL
 COLOUR: DARK BROWN

PROPOSED EQUIPMENT

CABINET DETAILS:

SAMSUNG BTS OUTDOOR POGONA ON NEW WALL MOUNTED STEEL GRILLAGE WITHIN NEW GRP SCREEN PAINTED TO MATCH EXISTING BRICKWORK
 DIMENSIONS: 1230x400x1280 HIGH
 MATERIAL: STEEL
 COLOUR: GREY

EXISTING GSM/UMTS ANTENNA TO BE RETAINED. NEW WIDEBAND ANTENNAS INSTALLED IN SPARE CHIMNEYS. EXISTING GSM/UMTS LNA's AND FEEDERS TO BE RETAINED. NEW LNA's AND FEEDERS TO BE INSTALLED. NEW 40A BREAKER TO BE INSTALLED IN EXISTING DISTRIBUTION BOARD FOR POGONA POWER SUPPLY.



LOCATION PLAN

NGR E 440790
 NGR N 561979

SCALE 1:1250

REPRODUCED FROM ORDNANCE SURVEY PROMAP DATA © CROWN COPYRIGHT 2015
 LICENCE NUMBER 100020449



RD10091 (R1.0) COV. CONFIG. C2s/i/2	RD10009 (R1.0) CONFIG. U-C2
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GRP CHIMMEYS TO BE REMOVED TO PERMIT ANTENNA AND POLE INSTALLATION. PRE-BUILD SURVEY WILL BE REQUIRED FROM CP UNDER OUTAGE TO CONFIRM DIMENSION.

No.	Revision	Date	By	ckd
E	GRP SCREEN ADDED TO PROPOSED CABINET	07.03.16	I.P.	REM
D	ADD NEW CABINET LOCATION AND COLOUR, NEW CABLE TRAY ROUTE AND EX/NEW CABLE TRAY ON THE ROOF SHOWN IN THE CORRECT LOCATION	15/01/16	DBG	REM
C	ADDING A NEW TAB WITH EXISTING ELEVATION	15/12/15	DBG	REM
B	ISSUED FOR PLANNING	27/10/15	DBG	REM
A1	ISSUED FOR APPROVAL	06/10/15	DBG	REM



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Site Name & Address:
 THE GREY HORSE, THE GREY HORSE LANE, WHITBURN, SUNDERLAND, TYNE AND WEAR, SR6 7EN

Title:
 PROPOSED TELECOMMUNICATIONS ROOF TOP UPGRADE SITE LOCATION

Purpose of Issue:
 PLANNING

Drawing No:
 STY035 - 01

Cell No: SR0018
 MBNL Ref: STY035

Issue: E	Scale: AS STATED	Ch'd: REM	Date: 06/10/15
Drn: DBG	Date: 10/09/15	App: REM	Date: 06/10/15

100mm
50mm
10mm
A3

EXCLUSION ZONES CONFORM TO THE ICNIRP REFERENCE LEVEL FOR LIMITED EXPOSURE TO MEMBERS OF THE GENERAL PUBLIC

No.	Revision	Date	By	ckd
E	GRP SCREEN ADDED TO PROPOSED CABINET	07.03.16	I.P.	REM
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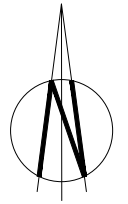
Title:
PROPOSED TELECOMMUNICATIONS ROOF TOP UPGRADE SITE LAYOUT

Purpose of Issue:
PLANNING

Drawing No:
STY035 - 02

Cell No: **SR0018** MBNL Ref: **STY035**

Issue: E	Scale: AS STATED	Ch'd: REM	Date: 06/10/15
Drn: DBG	Date: 10/09/15	App: REM	Date: 06/10/15



EXISTING CABLE TRAY WITH STEEL COVER TO BE USED FOR NEW FEEDERS COVER TO BE PAINTED TO MATCH EXISTING ROOF

CROFTSIDE AVENUE (20 mph)

PROPOSED WIDEBAND ANTENNA TO BE INSTALLED IN SPARE CHIMNEY POTS ON NEW SUPPORT POLE INSIDE EXISTING GRP CHIMNEY STACK

EXISTING 3900A STACKED CABINET ON FREE STANDING GRILLAGE STRUCTURE

EXISTING CABLE TRAY WITH STEEL COVER TO BE USED FOR NEW FEEDERS. COVER MODIFIED TO SUIT AND COLORED TO MATCH EXISTING ROOF RIDGE.

EXISTING LINK/AC MK4 CABINET ON FREE STANDING GRILLAGE STRUCTURE

EXISTING CABLE TRAY WITH STEEL COVER TO BE USED FOR NEW FEEDERS

EXISTING FLEXI ON FREE STANDING GRILLAGE STRUCTURE

EXISTING SKYLIGHTS WITH SAFETY MESS COVER

EXISTING WIDEBAND ANTENNAS TO RETAIN. NEW WIDEBAND ANTENNAS ADDED INSIDE EXISTING GRP CHIMNEY STACKS

BEER GARDEN & CARPARK

PROPOSED 225mm WIDE COVERED CABLE TRAY FOR NEW FEEDERS ON RUBBER BLOCKS

PROPOSED POGONA CABINET ON NEW WALL MOUNTED STEEL GRILLAGE WITHIN NEW GRP SCREEN PAINTED TO MATCH EXISTING BRICKWORK

EXISTING METER CABINET LOCATED UNDERNEATH THE STAIRCASE

EXISTING CABLE TRAY TO BE USED FOR NEW FEEDERS

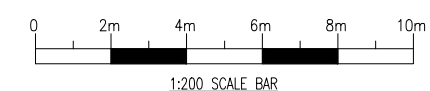
EXISTING ROOF ACCESS STAIRCASE

EAST STREET (30 mph)

- NOTE
1. ELECTRICAL SAFETY SIGN TO BE FITTED ON OUTSIDE OF LINK A/C CABINET DOOR AND ON MASONRY ADJACENT LANDLORDS METER
 2. POINT OF ENTRY & EXCLUSION ZONE SAFETY SIGN TO BE FITTED TO INSIDE OF ROOFTOP ACCESS DOOR.
 3. ACCESS SIGN TO BE FITTED TO MASONRY AT EYE LEVEL ADJACENT EQUIPMENT CABINETS.
 4. ANTENNA SAFETY SIGN ATTACHED TO REAR OF ALL ANTENNA.

SITE PLAN

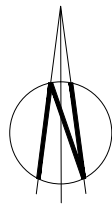
SCALE 1:200



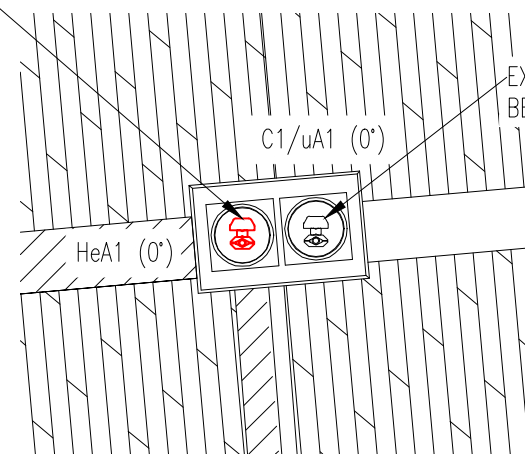
LOCATION OF PROPOSED SAMSUNG CABINET:-
DMS: 54:57:2.879N 1:21:52.801W

100mm
50mm
10mm
A3

NEW WIDEBAND ANTENNAS TO BE INSTALLED INSIDE GRP CHIMNEY

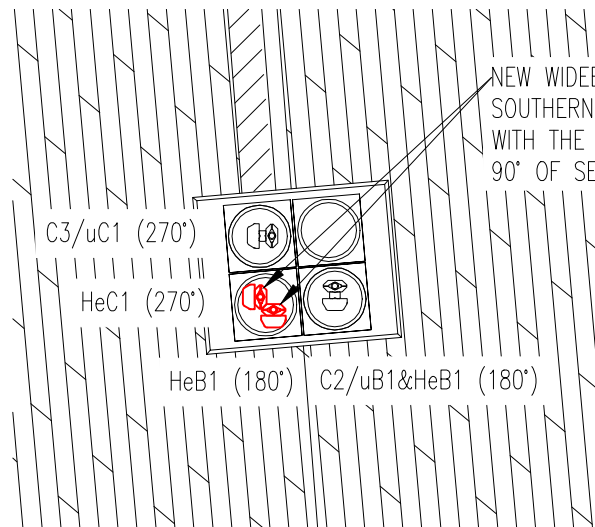
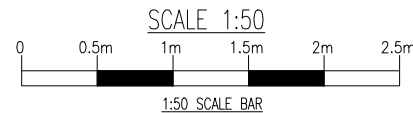


EXISTING GSM/UMTS LNA's ARE TO BE RETAINED



EXISTING WIDEBAND ANTENNAS TO BE RETAINED

ANTENNA DETAILS



NEW WIDEBAND ANTENNAS IN THE SOUTHERN CHIMNEY POT TO BE INSTALLED WITH THE 738546 MOUNTING KIT TO GET 90° OF SEPARATION

NEW LNA's & FEEDERS TO BE INSTALLED FOR NEW CABINET

BEER GARDEN & CARPARK

PROPOSED 225mm WIDE COVERED CABLE TRAY FOR NEW FEEDERS ON RUBBER BLOCKS

PROPOSED POGONA CABINET ON NEW WALL MOUNTED STEEL GRILLAGE WITHIN NEW GRP SCREEN PAINTED TO MATCH EXISTING BRICKWORK

EXISTING ACCESS GRILLAGE

EXISTING 3900A STACKED CABINET ON WALL MOUNTED FRAME

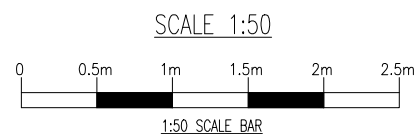
EXISTING LINK MK4 CABINET ON WALL MOUNTED FRAME

EXISTING FLEXI ON WALL MOUNTED FRAME

EXISTING DISTRIBUTION BOARD

EXISTING CABLE TRAY WITH A NEW DEEPER STEEL COVER TO BE USED FOR NEW FEEDERS

EQUIPMENT LAYOUT



LOCATION OF TRANSMISSION EQUIPMENT SUBJECT TO CHANGE/UPGRADE. CONTRACTOR TO VERIFY CONNECTION POINT FROM LIVE TX INFORMATION AND ON SITE PRIOR TO INSTALLATION

NOTE. PROPOSED SAMSUNG CABINET TO BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURERS DETAILS. REFER TO DESIGN GUIDE FOR ELECTRICAL, EARTHING, TRANSMISSION, ALARM DETAILS, ETC. NEW 40A BREAKER TO BE INSTALLED IN EXISTING DISTRIBUTION BOARD FOR POGONA POWER SUPPLY. MAKE OF BREAKER MUST MATCH MAKE OF DB

RD10091 (R1.0) COV. CONFIG. C2s/i/2
RD10009 (R1.0) CONFIG. U-C2

DESIGN CHECKS TO BE CARRIED OUT ON ALL EXISTING ANTENNA GRP CHIMNEYS, POLES AND FIXINGS PRIOR TO INSTALLATION OF NEW ANTENNA

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C	ADDING A NEW TAB WITH EXISTING ELEVATION	15/12/15	DBG	REM
B	ISSUED FOR PLANNING	27/10/15	DBG	REM
A1	ISSUED FOR APPROVAL	06/10/15	DBG	REM



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Site Name & Address:
THE GREY HORSE, THE GREY HORSE LANE, WHITBURN, SUNDERLAND, TYNE AND WEAR, SR6 7EN

Title:
PROPOSED TELECOMMUNICATIONS ROOF TOP UPGRADE EQUIPMENT LAYOUT

Purpose of Issue:
PLANNING

Drawing No:
STY035 - 03

Cell No: SR0018
MBNL Ref: STY035

Issue:	Scale:	AS STATED	Ch'd:	REM	Date:	06/10/15
E	Drn:	DBG	Date:	10/09/15	App:	REM
			Date:	06/10/15		

RD10091 (R1.0) COV. CONFIG. RD10009 (R1.0) CONFIG.
 C2s/i/2 U-C2

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No.	Revision	Date	By	ckd



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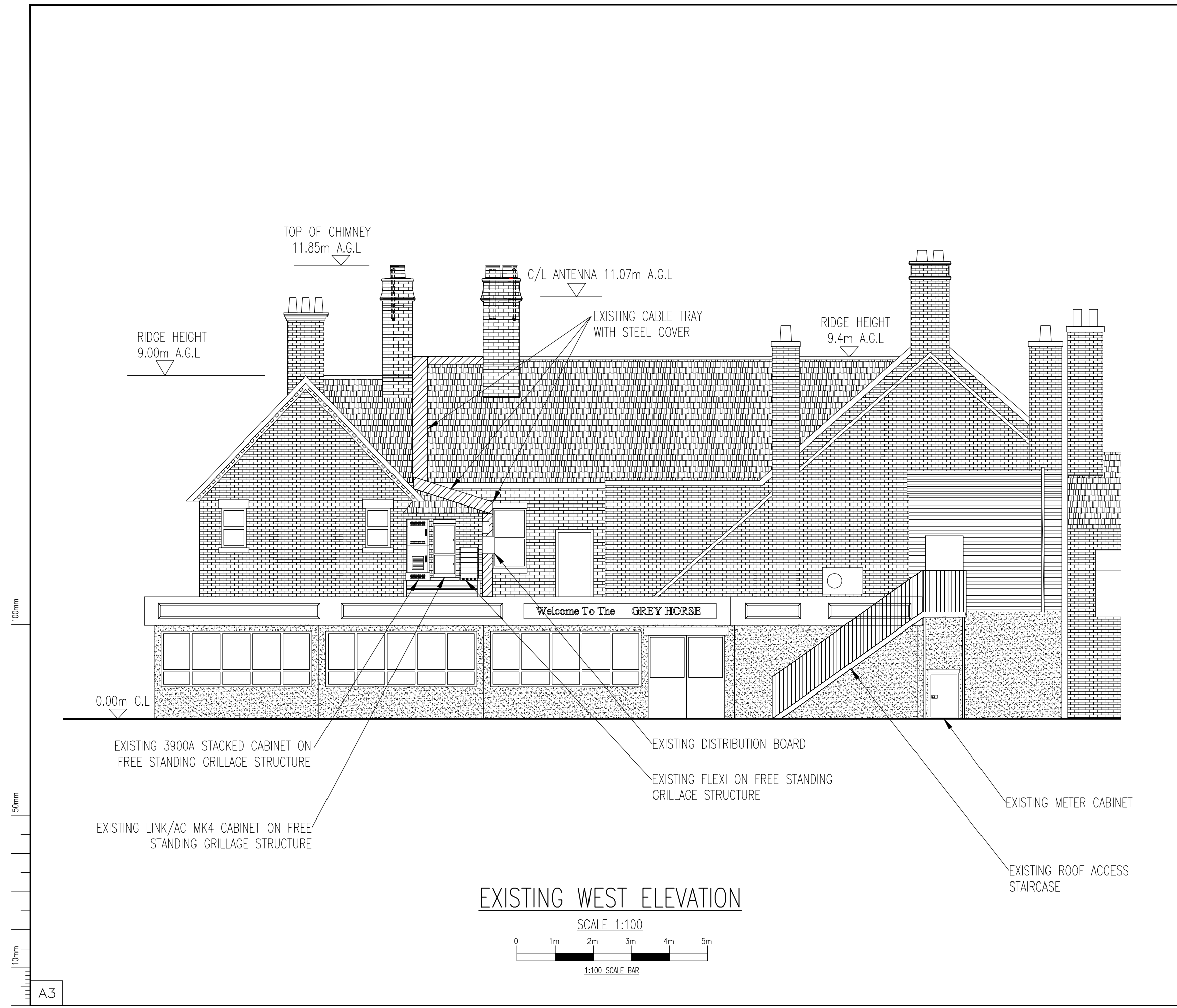
Title:
 PROPOSED TELECOMMUNICATIONS ROOF TOP UPGRADE SITE ELEVATION

Purpose of Issue:
 PLANNING

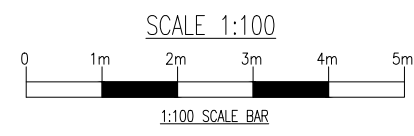
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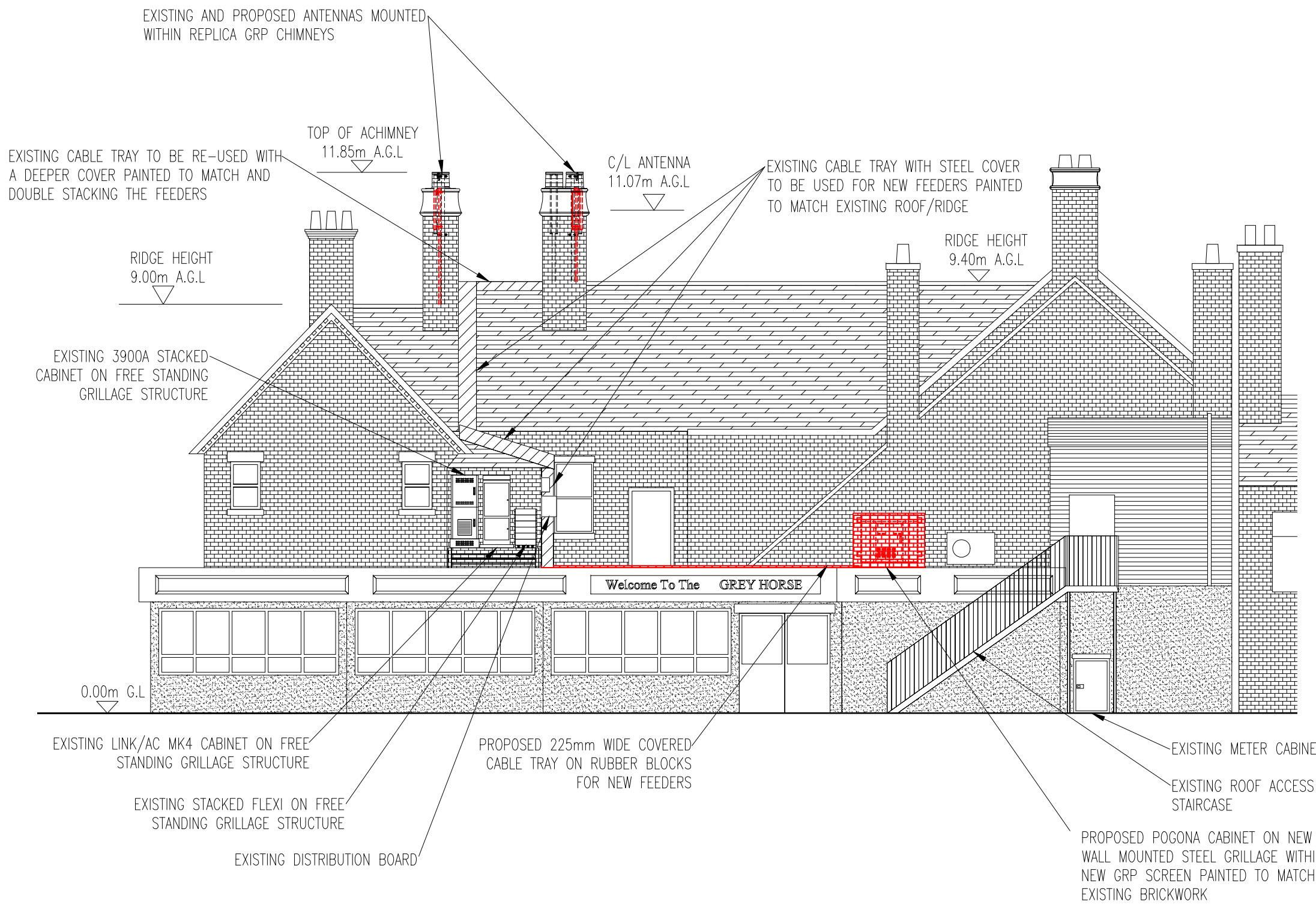
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Issue:	Scale: AS STATED	Ch'd: REM	Date: 06/10/15
E	Drn: DBG	Date: 10/09/15	App: REM
		Date: 06/10/15	

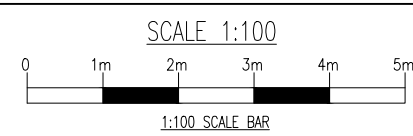


EXISTING WEST ELEVATION





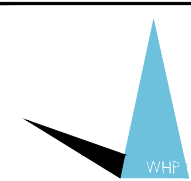
PROPOSED WEST ELEVATION



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Site Name & Address:
THE GREY HORSE, THE GREY HORSE LANE, WHITBURN, SUNDERLAND, TYNE AND WEAR, SR6 7EN

Title:
PROPOSED TELECOMMUNICATIONS ROOF TOP UPGRADE SITE ELEVATION

Purpose of Issue:
PLANNING

Drawing No:
STY035 - 05

Cell No: SR0018	MBNL Ref: STY035
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Issue: E	Scale: AS STATED	Ch'd: REM	Date: 06/10/15
Drn: DBG	Date: 10/09/15	App: REM	Date: 06/10/15

PRE-UPGRADE ANTENNA LINE KEY														
SECTOR ID	ANTENNA TYPE	ANTENNA C/L (m)	ANTENNA LENGTH (m)	BEARING	MECHANICAL TILT	ANTENNA JUMPER LENGTH	MAN PORT FREQ RANGE	OPERATING FREQ.	RFU/RRU	MHA NAME	RET CABLE LOCATION	RET NAME	MAIN FEEDER LENGTH	ESTIMATED LOSS AT HWF
C1/uA1	KAT 742215	11.15	1.4	0	-	0.5	WB	1800	RFU	1800/2100	NO	-	EX	EX
C2/uB1	KAT 742215	11.15	1.4	180	-	0.5	WB	1800	RFU	1800/2100	NO	-	EX	EX
C3/uC1	KAT 742215	11.15	1.4	270	-	0.5	WB	1800	RFU	1800/2100	NO	-	EX	EX

POST-UPGRADE ANTENNA LINE KEY													
SECTOR ID	ANTENNA TYPE	ANTENNA C/L (m)	ANTENNA LENGTH (m)	BEARING	MECHANICAL TILT	MAN PORT FREQ RANGE	OPERATING FREQ.	RFU/RRU	MHA NAME	RET CABLE LOCATION	RET NAME	MAIN FEEDER LENGTH	ESTIMATED LOSS AT HWF
C1/uA1	KAT 742215	10.85	1.8	0	EX	NB	2100/1800	RFU	1800	NO	-	24.5	1.96
C2/uB1	KAT 742215	10.85	1.8	1800	EX	NB	1800/2100	RFU	1800	NO	-	27.5	2.15
C3/uC1	KAT 742215	10.85	1.8	270	EX	NB	1800/2100	RFU	1800	NO	-	27.5	2.15
HeA1	KAT 80010681	10.85	0.85	0	EX	WB	1800	RFU	E15S09P75	Yes	E21P:H21P:H18P:000:b	30	2.43
HeB1	KAT 80010681	10.85	0.85	180	EX	WB	1800	RFU	E15S09P75	Yes	E21P:H21P:H18P:180:b	32	2.48
HeC1	KAT 80010681	10.85	0.85	290	EX	WB	1800	RFU	E15S09P75	Yes	E21P:H21P:H18P:290:b	32	2.48

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Title:
PROPOSED TELECOMMUNICATIONS ROOF TOP UPGRADE ANTENNA DETAILS

Purpose of Issue:
PLANNING

Drawing No:
STY035 - 06

Cell No: SR0018
MBNL Ref: STY035

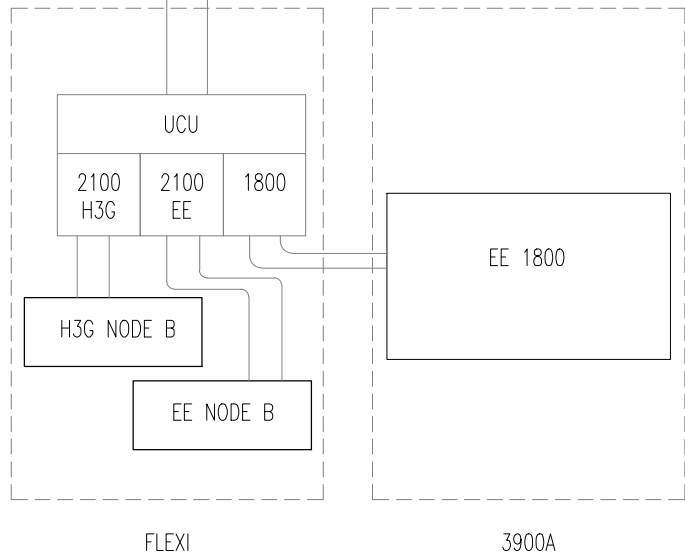
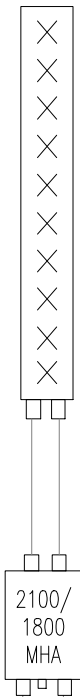
Issue: E	Scale: AS STATED	Ch'd: REM	Date: 06/10/15
Drn: DBG	Date: 10/09/15	App: REM	Date: 06/10/15

LOCATION OF TRANSMISSION EQUIPMENT SUBJECT TO CHANGE/UPGRADE. CONTRACTOR TO VERIFY CONNECTION POINT FOR SAMSUNG TRANSMISSION FROM LIVE TX INFORMATION ON SITENET AND ON SITE PRIOR TO DUCT/CABLE MANAGEMENT/CABLE INSTALLATION. IF IN DOUBT PLEASE CONTACT TX ENGINEER TO CONFIRM CONNECTION LOCATION:-
STEVE WEBB - 07576 576270
JOHNSON MARQUIS - 07960 660683

100mm
50mm
10mm
A3

EXISTING 2 PORT ANTENNA

NOTE. SCHEMATICS ARE INDICATIVE. ORIENTATION OF EQUIPMENT CABINETS IS SITE DEPENDANT AND SEQUENCE OF FEEDER CONNECTIONS MAY VARY DEPENDING ON THE ANTENNA MANUFACTURER



EXISTING SCHEMATIC

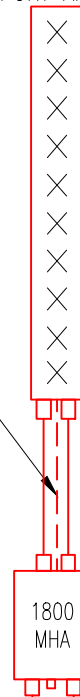
NTS

PROPOSED KAT 80010681 2PORT ANTENNA

EXISTING 2 PORT ANTENNA

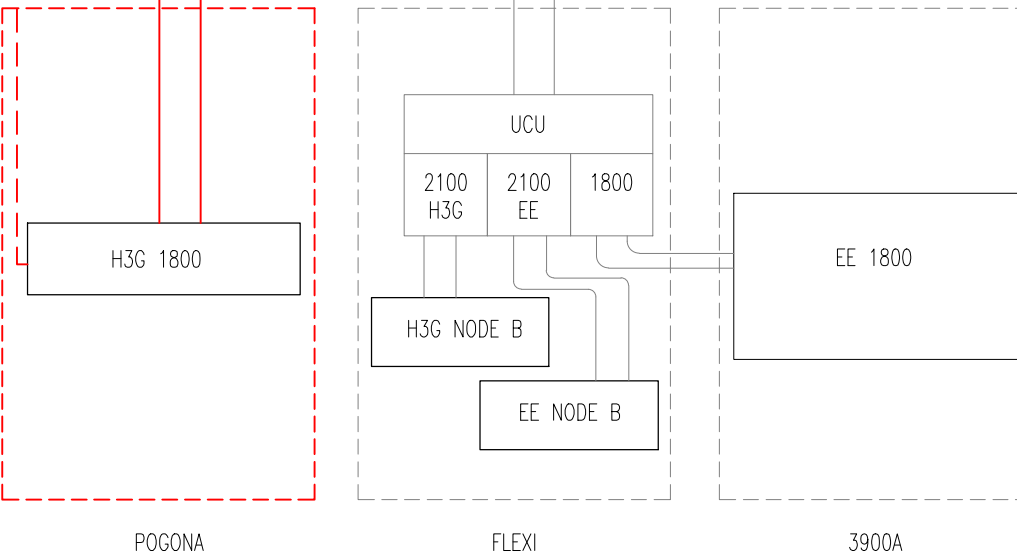
Aisg RET CABLE REQUIRED

Aisg 2 RET MOTOR REQUIRED



BIAS T

AISG CABLE



PROPOSED SCHEMATIC

NTS

RD10091 (R1.0) COV. CONFIG.
C2s/i/2

RD10009 (R1.0) CONFIG.
U-C2

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Title:
PROPOSED TELECOMMUNICATIONS ROOF TOP UPGRADE EQUIPMENT SCHEMATICS

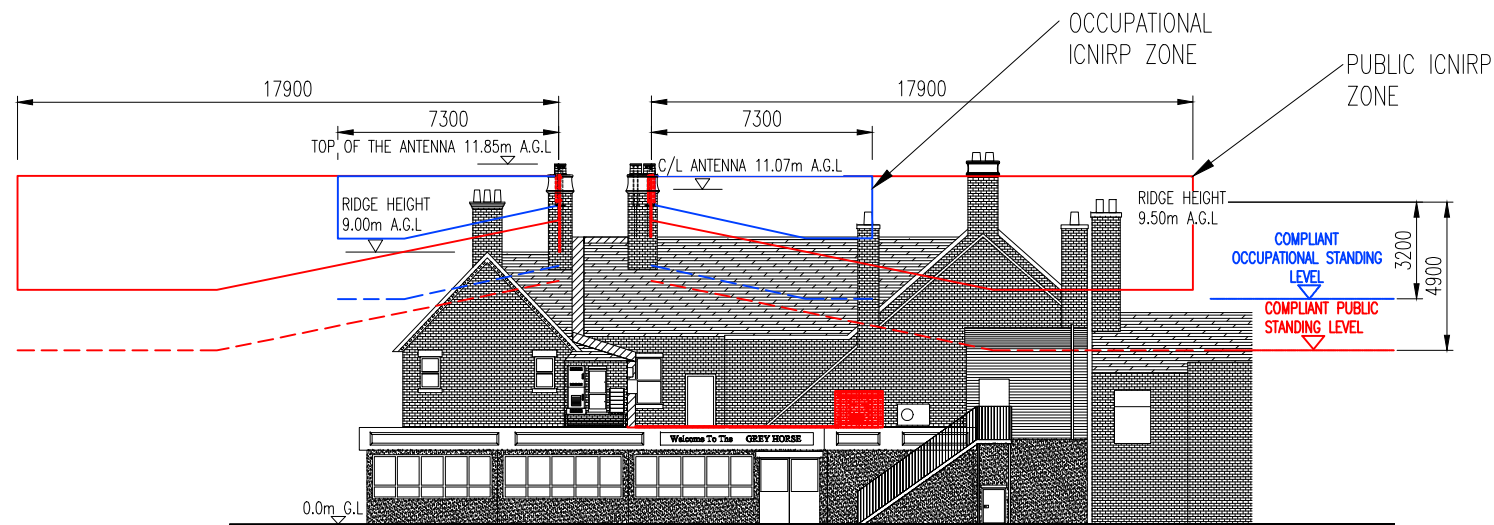
Purpose of Issue:
PLANNING

Drawing No:
STY035 - 07

Cell No: SR0018 MBNL Ref: STY035

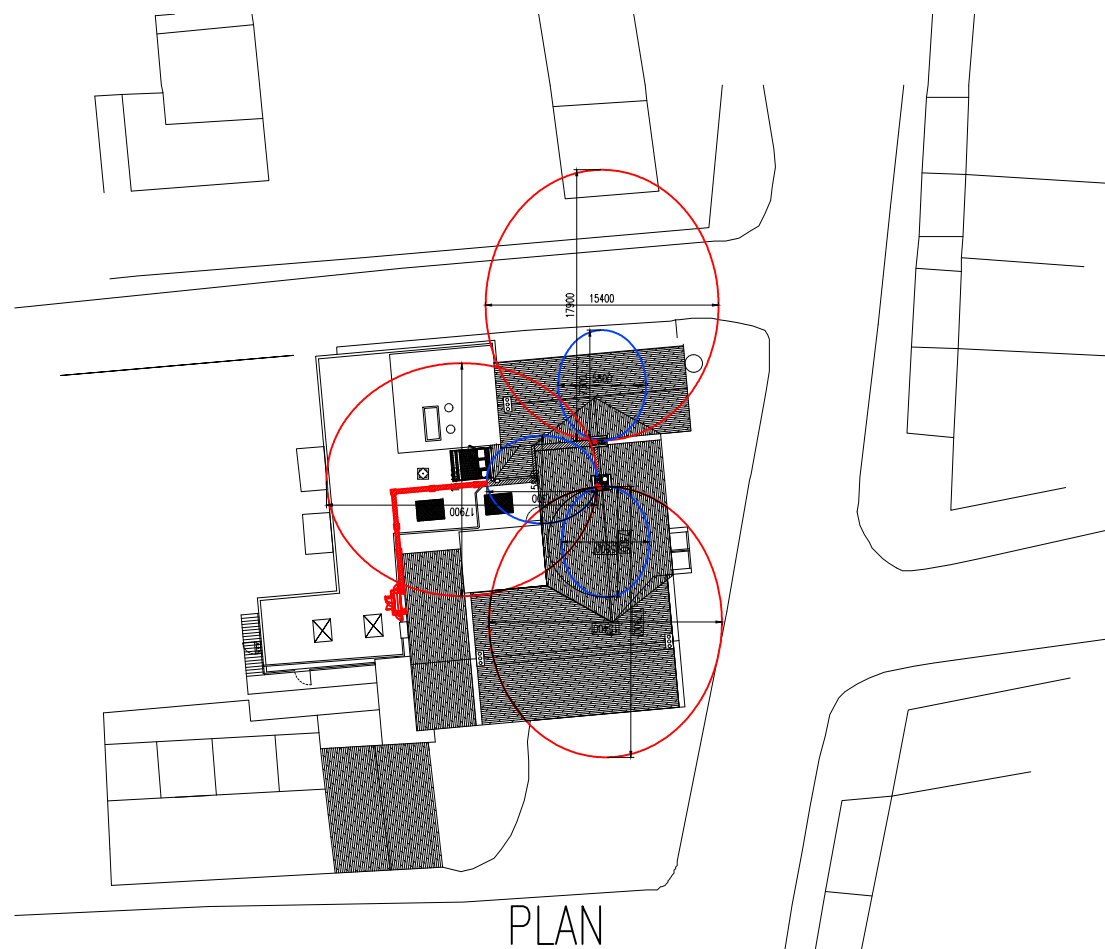
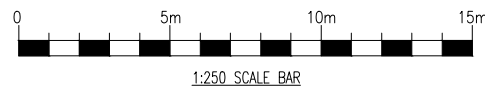
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100mm
50mm
10mm
A3



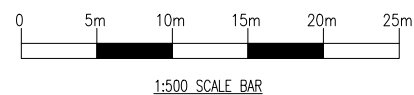
ELEVATION

SCALE 1:250



PLAN

SCALE 1:500



ICNIRP EXCLUSION ZONES ARE BASED ON VALUES WITHIN THE MBNL ICNIRP COMPLIANCE CERTIFICATION DOCUMENT GSDD008 R6.0

EXISTING SITE TYPE GF/RT (GSM/UMTS) NO OTHER OPERATORS WITHIN 50m HORIZ AND 4m VERT.
 USE VALUES FOR EE/H3g ONLY
 PROPOSED WORKS: H3G LTE UPGRADE
 ANTENNA TYPE: KAT 742215 & KAT 80010681
 BEARINGS: 0°, 180°, 270°, 0°, 180°, 270°
 ACTUAL BUILD HEIGHT: 10.45m & 10.64m
 FRONT DISTANCE PUBLIC: 17.9m
 FRONT DISTANCE OCCUPATIONAL: 7.3m
 PUBLIC BUILD HEIGHT 4.9m
 COMPLIANCE DISTANCES BASED ON THE FOLLOWING EQUIPMENT POWER:
 1800MHz - 320W
 2100MHz - 220W

No.	Revision	Date	By	ckd
E	GRP SCREEN ADDED TO PROPOSED CABINET	07.03.16	I.P.	REM
D	ADD NEW CABINET LOCATION AND COLOUR, NEW CABLE TRAY ROUTE AND EX/NEW CABLE TRAY ON THE ROOF SHOWN IN THE CORRECT LOCATION	15/01/16	DBG	REM
C	ADDING A NEW TAB WITH EXISTING ELEVATION	15/12/15	DBG	REM
B	ISSUED FOR PLANNING	27/10/15	DBG	REM
A1	ISSUED FOR APPROVAL	06/10/15	DBG	REM



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Site Name & Address:
 THE GREY HORSE, THE GREY HORSE LANE, WHITBURN, SUNDERLAND, TYNE AND WEAR, SR6 7EN

Title:
 PROPOSED TELECOMMUNICATIONS ROOF TOP UPGRADE ICNIRP DETAILS

Purpose of Issue:
 PLANNING

Drawing No:
 STY035 - 08

Cell No: SR0018 MBNL Ref: STY035

Issue:	Scale:	AS STATED	Ch'd:	REM	Date:	06/10/15
E	Drn:	DBG	Date:	10/09/15	App:	REM
			Date:	06/10/15		

100mm
50mm
10mm
A3