Electrical Supply & Installation

1) The required supply capacity for EE Microcell sites is 7.4kVA, Single Phase.

2) For exact details of required electrical switchgear and associated connections, refer to site-specific electrical schematic and construction details.

3) The contractor is to ensure that a circuit chart is provided adjacent to the main distribution board. The exact location of any proposed circuit breaker is to be clearly identified on the relevant cct chart.

4) It is the responsibility of the principal contractor to inform the designer of any changes that are deemed necessary prior to commencement of works.

5) The electrical contractor must bring to the designer's attention any discrepancies or departures from the electrical design that are in accordance with BS7671 Requirements for Electrical Installations.

6) The sub-main cable shall be clearly labelled throughout it's route at 5 metre intervals, or at every floor level. The cable shall be clearly identified "EE Microcell supply.

7) Every electrical joint and connection shall be of proper construction as regards conductance, insulation, mechanical strength and protection.

8) All conductors shall be clearly identified in accordance with section 514 of BS7671 (Requirements for Electrical Installations).

9) Cable entry into enclosures shall be in accordance with manufacturer's specifications and recommendations, otherwise cable entry shall be from beneath. All holes shall be sealed to prevent dust and moisture ingress. All armoured cables shall be fitted with a correctly fitting cable gland sleeve.

10) All electric cables are to be clipped direct unless otherwise stated on the relevant drawings. Cleats are to be installed at 375mm centres (vertically) and 350mm centres (horizontally).

11) All holes are to be sealed and made good upon installation of appropriate cables. All floor risers shall be fire stopped with an approved intumescent material or product.

Cable Management

1) Where necessary, bends in cable management are to be installed in accordance with the feeder cable manufacturers minimum bend radius recommendations. For details of feeder cable type, refer to site specific 'Feeder Key'.

Lightning Protection & Earthing

1) All earthing is to fully comply with the following British Standards:
BS7430 (Code of practise for earthing).
BS7671 (Requirements for electrical installations).

2) In each installation main equipotential bonding conductors complying with section 547 of BS7671 shall connect to the main earthing terminal extraneous-conductive parts of that installation including the following:
Water service pipes
Gas installation pipes
Other service pipes and ducting
Heating and air-conditioning systems
Exposed metallic structural parts of the building
The lightning protective system

3) All sections of metallic cable management are to be cross bonded at every joint using tinned copper braid bonds (fixed using manufacturer's pre-fabricated straps and brass fittings).

4) The cable management is to be tested at the end and centre for a resistance continuity of 1 ohm or less.

General Installation Notes

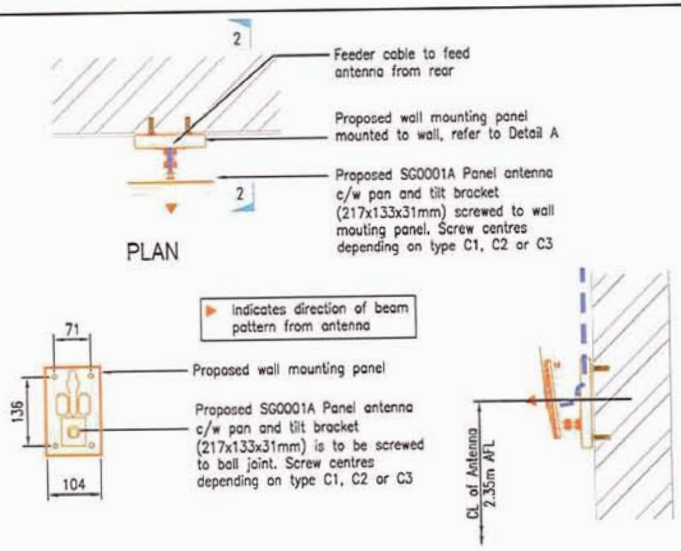
1) The main contractor is to supply and install all those items of new works and alterations shown on the contract drawings as being in his supply, including 'free issue' items from the client, as described and listed within the contract.

2) All permanent and temporary safety works are to be in place PRIOR to the commencement of the proposed construction works.

3) The main contractor is responsible for the design, maintenance and removal of all temporary works.

4) The site is to be left in a clean and 'workmanlike' manner upon completion of the works and is to be similarly maintained during the progress of the works. All surplus or redundant materials and waste shall be removed from site and disposed of at approved waste management centres.

5) This drawing is to be read in conjunction with Shire Consulting electrical and structural detailed design drawings.



SG0001A SWIVEL MOUNT PANEL ANTENNA FIXING DETAILS (1 No. REQUIRED)

Scale - 1:10

REFERENCE DRAWINGS

For Reference Drawing List, See Drg. No. SP/DBY7071/R/101

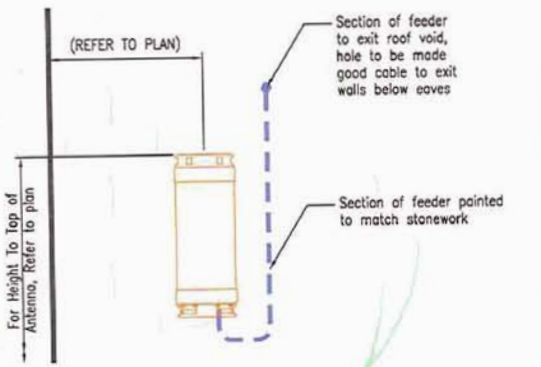
ICNIRP

This site is designed to be in full compliance with the requirements of the radio frequency (RF) public exposure guidelines of the International Commission on Non-Ionizing Radiation Protection (ICNIRP)

LEGEND

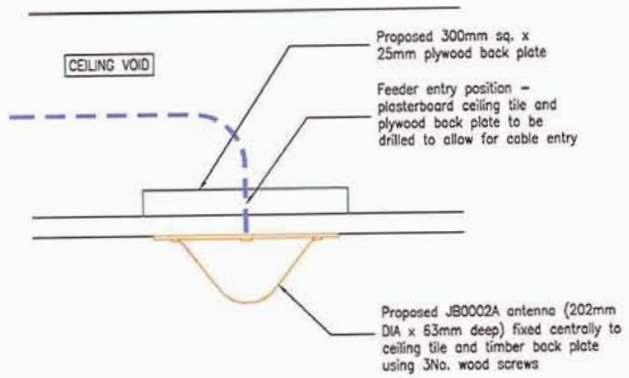
- EE Equipment
- Feeder Cables
- Radiating Feeder Cables
- Cable Management
- Electrical Cables
- Earthing
- BT Equipment/Cabling
- Electrical Switchgear
- CAT 5/6 type cable
- Fibre Optic Cable
- Photograph Direction (A)
- Equipment Elevation Direction (ELEVATION X)

(Colours on this drawing represent proposed microcell equipment)



AL0300B PANEL ANTENNA C/W PAN AND TILT BRACKET FIXING DETAILS (ANTENNAE A3, A4 & A5)

Scale - 1:10



JB0002A DOME ANTENNA FIXED TO CEILING (1 No. REQUIRED)

Scale - 1:5

APPROVAL / CONSTRUCTION ISSUE

Shireconsulting
The Chapel, Berrowy Hall Road, Droitwich, Worcestershire, WR9 0BZ
Tel: (01527) 579633 Fax: (01527) 579637
Web: www.shire-uk.com

CUSTOM

A3 ORIGINAL
0mm 10mm 20mm 30mm 40mm 50mm

ACQUISITION: OPCS SPECIAL PROJECTS 020 89634100

ADDRESS: STANCLIFFE STONE
VIA GELLIA ROAD
GRANGEMILL
MATLOCK, DERBYSHIRE
DE4 4BW

THIS SITE DESIGN CONFORMS TO OPCS DOCUMENTS:-
PLAN 196 VERSION 3.0
WITH THE FOLLOWING EXCEPTIONS:-
1. -
2. -
3. -
4. -
5. -

ISSUE	DESCRIPTION	BY	DATE
1	ISSUED FOR APPROVAL / CONSTRUCTION	WS	23.01.12

SCALE	DRAWN		STRUCT.		ELEC.		APPROVED	
AS SHOWN	WS	23.01.12	-		-		TC	MNH
	DATE	23.01.12	DATE		DATE		DATE	23.01.12

DRAWING TITLE: ELECTRICAL NOTES/ ANTENNAE FIXING DETAILS

UPGRADE NUMBER: 2G/3G ROLLOUT

SITE TYPE: IN-BUILDING MICROCELL

SITE NAME: MARSHALLS MATLOCK

St. James Court
Great Park Road
Almondsbury
Bristol
BS32 4QJ
Tel 0870 376 8888
Fax 0870 376 4770

Nokia Siemens Networks

DRAWING NUMBER: SP/DBY7071/R/111

REV: 1