



Clarke Telecom Limited
Unit E, Madison Place,
Northampton Road, Manchester,
M40 5AG, UK
www.clarke-telecom.com

T: +44 (0) 161 785 4500

F: +44 (0) 161 785 4501

Our ref: CTIL_30306901_TEF_89158

Chief Planning Officer

Manchester City Council

Planning

P O Box 532

MANCHESTER

M60 2LA

planning@manchester.gov.uk

Via Email

15th October 2020

Dear Sirs

PROPOSED RADIO BASE STATION INSTALLATION AT CTIL_30306901_TEF_89158, SW ON COVERDALE CRESCENT, COVERDALE CRESCENT, ARDWICK, MANCHESTER, M12 4DU, N.G.R E: 386177 N: 396752

Cornerstone Telecommunications Infrastructure Ltd (Cornerstone) is a joint venture company owned by Vodafone Limited and Telefónica UK Limited, commonly known as O2, who manage a single grid network across the UK for these companies. This agreement allows both organisations to pool their basic network infrastructure, while running two, independent, nationwide networks. It maximises opportunities to consolidate the number of base stations and where possible can significantly reduce the environmental impact of network development.

5G rollout has begun and both Vodafone and Telefónica are in the process of upgrading their existing radio base stations in their single grid network wherever possible. As part of this continued network improvement program, there is a specific technical requirement to provide new 5G coverage in and around this area of Ardwick. An existing streetworks style base station has been identified in the area, however it cannot accommodate for both operators latest requirements. In order to fit in to the operator's single grid network, an additional new streetworks style base station is required for Telefónica service in close proximity to the existing streetworks style base station that will be retained and in due course upgraded with improved Vodafone service.

Mobiles can only work with a network of base stations in place where people want to use their mobile phones or other wireless devices. Without base stations, the mobile phones and other devices we rely on simply won't work.

This proposed new site will enable 5G coverage to be provided in and around this area of Ardwick. The Government recognises that widespread coverage of mobile connectivity is essential for people and businesses. That is why the Government is committed to extending mobile geographical coverage further across the UK, with continuous mobile connectivity provided to all major roads and to being a world leader in 5G. This will allow everyone in the country to benefit from the economic advantages of widespread mobile coverage.

As well as improved mobile signal, 5G networks are also crucial to drive productivity and growth across the sectors that local areas are focusing on through their emerging Local Industrial Strategies. Enabling and planning for 5G implementation is central to achieving the Government's objective to deliver prosperity at the local level and enable all places to share in the proceeds of growth.

5G service provision will bring faster, more responsive and reliable connections than ever before. More than any previous generation of mobile networks, it has the potential to improve the way people live, work

and travel, and to deliver significant benefits to the economy and industry through the ability to connect more devices to the Internet at the same time, the 'Internet of Things'. This will enable communities to manage traffic flow and control energy usage, monitor patient health remotely, and increase productivity for business and farmers, all through the real-time management of data.

The demand for mobile data in the UK is increasing rapidly, and as households and businesses become increasingly reliant on mobile connectivity, the infrastructure must be in place to ensure supply does not become a constraint on future demand.

This letter therefore invites the Local Planning Authority, in accordance with planning policy guidance and Best Practice Commitments, to enter into pre-application discussions with regard to our preferred site option prior to a formal planning submission. Several steps in the site identification process have already been undertaken. The Local Planning Authority must register and our records of other potential sites have been reviewed, the policies in the Development Plan have been taken into account and we have examined the inter-operator site sharing database.

Our technical network requirement is as follows:

CTIL_30306901_TEF_89158, SW ON COVERDALE CRESCENT

The site is needed to maintain and improve 2G, 3G, 4G coverage and capacity for Telefónica to ensure that its customers continue to experience access to the latest service provision currently available and have access to a new 5G network. This is because the operator needs to find a replacement for the site it is currently providing 2G, 3G and 4G services from Coverdale Crescent, which cannot be upgraded for Telefonica's technology requirements for technical reasons highlighted above and more fully explained in the discount section below. The proposed new installation will also meet the extra demands on the network in this area as new technologies improve increasing the demand for 4G and new 5G technologies.

The preferred Telefónica option is as follows:

COVERDALE CRESCENT, ARDWICK, MANCHESTER, M12 4DU, N.G.R E: 386177 N: 396752

The proposed works comprise the installation of a 20m slim-line column supporting 6 no. antennas, 2 no. transmission dishes, a GPS Module and 3 no. Remote Radio Units (RRUs), with 2 no. equipment cabinets at the base and ancillary development.

The operator is limited in siting options as there is a requirement to provide equivalent replacement coverage and capacity in and around this area of Ardwick. The replacement of an existing site means that the operator has to be located as close as possible to the existing installation in order to maintain the provision of equivalent coverage and capacity to the surrounding local area. This is the nearest suitable location that the operator is able to position their replacement apparatus.

The proposed height at 20m is essential in order to provide equivalent replacement coverage to the target coverage area. 5G new radio technologies operate in higher frequency bands than older technologies. Since it operates at higher frequencies where attenuation of the radio signal is naturally higher and the effects of clutter are greater it will normally require a higher structure to achieve the same coverage footprint.

In order to minimise the width of the proposed column, the antennas are split in to a dual stack formation where 3 antennas will be located at the top of the column and the other 3 antennas will be located

underneath. Thus, if the column were to be any lower, the antennas would not be able to operate effectively nor reach the target coverage area.

The column is a simple, functional, vertical structure necessary to provide replacement and new service provision to Ardwick and the surrounding area. There are other vertical structures in the streetscene which will help it assimilate in to the local environ. The column is proposed to be finished in a grey colour but can be coloured any other colour that the LPA consider appropriate.

The cabinets are designed to appear like other statutory undertakers equipment cabinets. They are small for telecommunications apparatus and are proposed to be coloured green to assimilate with other equipment cabinets commonly found in urban environments. The cabinets can be installed under the operators permitted development rights, but have been included on the plans and in the description in order to remain fully transparent.

The RRUs are designed to make the antennas more efficient and reduce the need for equipment cabinets at ground level, therefore minimising ground level clutter in this area. They are located underneath the lowest set of antennas, out of the natural eye line of the casual passer-by and therefore will not appear prominent in the streetscene.

Alternative site options considered and rejected are as follows:

Site ³	Site Name and address		NGR	Reason for not choosing ⁴
ES - Existing Structure	Name	Existing VF Streetworks 95166vf		T - Technical Difficulties
	Line 1	Stockport Road	Eastings	The operator has fully investigated upgrading this site to provide the latest technologies for 4G services as well as new 5G coverage/capacity in to the Telefonica network. However, the slim line street furniture base stations that have been inserted into the local street scene are not capable of accommodating all of the differing equipment that is required to meet the site specific demand of both operators and customers for this area from a single street furniture pole, being mindful of the spectrum variations. To this end, many existing shared street-work installations are being removed from the 'single grid', meaning the existing pole will become operator unilateral for 5G provision. This creates the necessity for an additional new street furniture base station in the cell to accommodate the technological requirements of the other unilateral operator – either Vodafone or Telefonica (O2). To continue to share an existing structure at this location would require significant redevelopment of the existing structure to a much more structurally robust mast capable of hosting all the differing antennas and equipment from both operators to address their spectrum variations. This would move away from the relatively uniform and slimline street furniture poles proposed and therefore it is felt that a secondary, more slimline, street-pole is a more appropriate and sensitive solution to 5G service provision whilst minimising impact for a street furniture setting. This existing telecommunications site has been discounted for Telefonica's new technology requirements for this reason. A new replacement site for Telefonica is therefore needed to provide this operator with the latest 2G, 3G 4G and 5G technologies. The existing site will remain in place for Vodafone technologies.
	Line 2	Longsight	385923	
	Town	Manchester	Northings	
	County	Greater Manchester	396442	
	Postcode	M13 9AD		
GF - Greenfield	Name	SWs Stockport Road (BT Box)		T - Technical Difficulties
	Line 1	Stockport Road	Eastings	There are underground services running within this footway, namely a 24 inch major gas pipeline which the operator cannot excavate close too under the current guidelines and the option was therefore discounted.
	Line 2	Longsight	385909	
	Town	Manchester	Northings	
	County	Greater Manchester	396455	
	Postcode	M13 9AH		
GF - Greenfield	Name	GoldCup Pub SWs		P - Planning
	Line 1	Stockport Road	Eastings	This location will be immediately adjacent to residential dwellings, over looking them, whilst also being opposite St Lukes Primary School. We believe that this location will attract more objections for the impact on visual amenity from the local community than the chosen option
	Line 2	Longsight	386000	
	Town	Manchester	Northings	
	County	Greater Manchester	396372	
	Postcode	M13 9AN		
GF - Greenfield	Name	Markfield Avenue SW		P - Planning
	Line 1	Markfield Avenue	Eastings	This location is surrounded on all aspects by high numbers of residential dwellings. The applicant deemed that a site at this location would have a greater detrimental affect on the visual amenity of the surrounding area than the subject location. This site has therefore been discounted for this reason.
	Line 2	Longsight	385873	
	Town	Manchester	Northings	
	County	Greater Manchester	396358	
	Postcode	M13 9AD		

GF - Greenfield	Name	SW outside McDonalds		RD - Redevelopment not possible
	Line 1	Devonshire Street	Eastings	There are underground services which run along the footways in this location and following further investigation works, the operator is unable to install their equipment in this location. This option was therefore discounted.
	Line 2	Longsight	385682	
	Town	Manchester	Northings	
	County	Greater Manchester	396734	
	Postcode	M12 6AG		
GF - Greenfield	Name	SW outside Church		RD - Redevelopment not possible
	Line 1	Stockport Road	Eastings	There are underground services which run along the footways in this location and following further investigation works, the operator is unable to install their equipment in this location. This option was therefore discounted.
	Line 2	Ardwick	385720	
	Town	Manchester	Northings	
	County	Greater Manchester	396650	
	Postcode	M12 4PW		
GF - Greenfield	Name	SW outside Shops		T - Technical Difficulties
	Line 1	Stockport Road	Eastings	There are 2no four storey blocks of flats located to the rear of this location. A mast at this location would not provide the required level of coverage to the target area due the substantial buildings that would inhibit the signal and would not deliver the required coverage to the target area. This site has therefore been discounted for this reason.
	Line 2	Ardwick	385788	
	Town	Manchester	Northings	
	County	Greater Manchester	396585	
	Postcode	M12 4PW		
GF - Greenfield	Name	SW at Jct. Devonshire Street &		RD - Redevelopment not possible
	Line 1	Coverdale Crescent	Eastings	There are underground services which run along the footways in this location and following further investigation works, the operator is unable to install their equipment in this location. This option was therefore discounted.
	Line 2	Ardwick	385724	
	Town	Manchester	Northings	
	County	Greater Manchester	396785	
	Postcode	M12 4EL		
GF - Greenfield	Name	McDonalds Car Park		SP - Site Provider
	Line 1	Devonshire Street	Eastings	The McDonald's Car Park is heavily used throughout the day and night and it was deemed that removing 2-3 car parking space for the installation of a mast; cabinets and safety barriers would impact on their ability to trade and may lead to parking on nearby roads and this would be unacceptable. This option was therefore discounted.
	Line 2	Ardwick	385663	
	Town	Manchester	Northings	
	County	Greater Manchester	396727	
	Postcode	M12 4AB		

All Telefónica installations are designed to be fully compliant with the public exposure guidelines established by the International Commission on Non-Ionizing Radiation Protection (ICNIRP). These guidelines have the support of UK Government, the European Union and they also have the formal backing of the World Health Organisation. A certificate of ICNIRP compliance will be included within the planning submission.

We would be grateful if you could advise us of any pending telecommunications applications or recent planning decisions in this particular area so these can be evaluated.

Finally, we would be interested in any local stakeholders or groups that you consider would like to know more about our proposals. For your information pre-consultation letters and a set of plans have been sent to the local ward councillors for Ardwick Ward (Cllrs B Priest, A Abdullatif and T Hewitson), the local MP Lucy Powell and the head teacher and chair of governor for Armitage Cofe Primary School.

We enclose a copy of our Consultation Plan and welcome your suggestions.

We look forward to receiving your response within 14 days of the date of this letter.

Yours faithfully



Simon Batchelor
Consultant Surveyor



Clarke Telecom Limited
Unit E, Madison Place,
Northampton Road, Manchester,
M40 5AG, UK
www.clarke-telecom.com

T: +44 (0) 161 785 4500

F: +44 (0) 161 785 4501

Clarke Telecom Ltd
Email: simon.batchelor@clarke-telecom.com
Tel: 07841 684860
(for and on behalf of Cornerstone and Telefónica UK Limited)