

SUPPLEMENTARY INFORMATION

1. Site Details

Site Name:	ANSON ROAD BUS STOP	SITE ADDRESS:	ANSON ROAD, VICTORIA PARK, MANCHESTER, M14 5DE
National Grid Reference:	385987E, 395337N		
Site Ref Number:	30067100	Site Type: ¹	MACRO

2. Pre-Application Check List

Site Selection (for New Sites only)

(Would not generally apply to upgrades/alterations to existing site including redevelopment or replacement of an existing site to facilitate an upgrade or sharing with another operator)

Was a local planning authority map register available to check for suitable sites by the operator or the local planning authority?	Yes	No
If no explain why:		
Were industry site databases checked for suitable sites by the operator:	Yes	No
If no explain why: N/A		

Site Specific Pre-application consultation with local planning authority

Was there pre-application contact:	Yes
Date of pre-application contact:	22 nd November 2021
Name of contact:	The Chief Planning Officer

¹ Macro or Micro

In the first instance, all correspondence should be directed to the agent.

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Registered Address:
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Summary of outcome/Main issues raised:

A pre-application submission pack containing a description of the proposal, drawings and a consultation plan was sent to the Local Planning Authority on 22nd November 2021 for comment. No comments have been received.

Community Consultation

Rating of Site under Traffic Light Model:	Red	Amber	Green
Outline of consultation carried out:			
A written description of the proposal and drawings was sent to the Rusholme Ward Councillors - Ahmed Ali, Jill Lovecy and Rabnawaz Akbar and also to Afzal Khan MP on 22 nd November 2021.			
Summary of outcome/main issues raised (include copies of relevant correspondence):			
No comments or responses were received.			

School/College

Location of site in relation to school/college (include name of school/college):	
Manchester Hospital School in proximity.	
Outline of consultation carried out with school/college (include evidence of consultation):	
A written description of the proposal and drawings were sent to the Headteachers and Chairs of Governors on 22 nd November 2021.	
Summary of outcome/main issues raised (include copies of main correspondence):	
No comments or responses were received.	

Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator consultation (only required for an application for prior approval)

Will the structure be within 3km of an aerodrome or airfield?	Yes	No
Has the Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator been notified?	Yes	No

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Details of response:

No comments or responses were received.

Developer's Notice

Copy of Developer's Notice enclosed?	Yes	No
Date served:	12 th January 2022	

3. Proposed Development

The proposed site:

As part of Cornerstone's continued network improvement program, there is a specific requirement for a radio base station at this location to accommodate the Landlord's requirement, as the existing site at United Utilities, Hathersage Road, Manchester, M13 0FN is to be removed, to maintain coverage to the area and introduce new technologies.

The proposed site benefits from being located outside the Conservation Area, being located away from local residences and being within an area surrounded by mature trees which will provide a good level of screening.

The proposal includes the erection of a 20m streetworks monopole supporting 3 no. antennas and 2 no. 300mm microwave dishes and the installation of 4 no. equipment cabinets, 1 no. meter cabinet and ancillary equipment.

The relocation of the site within this area this will allow for existing network coverage and capacity to be maintained, and for minimal coverage loss to be incurred by network users. This proposal also would meet the future coverage requirements for the operator in a single installation. This should eliminate the need for a separate installation in the area in the future.

A previous application no. 128572/TEL/2020 was refused up the road from the proposal due to its sitting, size, and impact on pedestrian movement; however, following a re-assessment by a qualified network radio planner the site has been re-located down the road, on a wide pavement outside the Conservation area and in an area with a good level of natural screening provided by the mature trees.

The proposal has been designed to meet the technical needs of the operator whilst causing the least visual impact to the street scene and character of the area.

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The proposed location has been chosen in the absence of a better alternative and has been selected as a means of balancing the technical needs of the operator against those of the local community and local planning authority and is considered to be the only option suitable to locate such an installation at this time, whilst balancing all of the above needs.

Please see section below for the proposed dimensions, materials and colours.

Enclose map showing the cell centre and adjoining cells if appropriate:

See accompanying coverage plots.

Type of Structure (e.g. tower, mast, etc):

Description:

The proposal includes the erection of a 20m streetworks monopole supporting 3 no. antennas and 2 no. 300mm microwave dishes and the installation of 4 no. equipment cabinets, 1 no. meter cabinet and ancillary equipment.

Overall Height:	20 Metres (to the top of antennas)	
Height of existing building (where applicable):		N/A Metres
Equipment Housing: 2 x Lancaster Cabinets		
Length:		1.898 Metres
Width:		0.798 Metres
Height:		1.648 Metres
Equipment Housing: Meter Cabinet		
Length:		0.655 Metres
Width:		0.264 Metres
Height:		1.015 Metres
Tower/mast etc – type of material and external colour:	Monopole - metal – finished grey	
Equipment housing – type of material and external colour:	Cabinets - metal – finished grey	

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Reasons for choice of design, making reference to pre-application responses:

A pre-application covering letter and drawings was submitted to the Council on 22nd November for comments. No response was received in relation to this information. In the absence of Officer comments, the proposed base station design (as shown on the accompanying drawings) has been selected and the reasons for this set out below.

The proposed development has two main elements, the monopole which supports the antennas and the microwave dishes, and the ancillary equipment (including equipment cabinets). All are required to successfully deliver mobile phone signal to a locality.

The design and type of equipment to be deployed in this case has been chosen specifically to take account of and minimise the impact of the installation on the locality.

With regards to form and scale, the installation has been chosen to deliver the requested coverage for the area. In all aspects of the design the smallest practical components have been utilised to ensure that the visual impact of the development is kept to a minimum and to streamline the design as much as possible.

The range of masts available for use in the streetscene are limited and a standard monopole design was considered the most suitable. The alternative to a slimline monopole would be a mast with a headframe which would be more visually intrusive than the slimline monopole design.

It was felt therefore that the implementation of a slimmer structure, would be the most suitable option for this location and, unpainted, the galvanised finish will weather and blend more into the background.

Given the nature of the area, the existing street furniture and the mature trees along the road, the proposed design would result in a minimal visual change to area, the installation would be located close the Bus stop. It is considered that this change would not result in any significant harm or adverse impact. When weighed against the benefits of providing the new technologies to the locality, the proposed design should be considered favourably in the planning balance.

As set out with regard to the previous application, this newly proposed location has sought to achieve a balance between the technical requirements of the operator and, as far as is practicable, planning and environmental considerations. The design of mobile phone mast, particularly 5G masts, are however heavily influenced by technical constraints and are limited with regards to design and appearance to a significant degree. The height of the installation at 20m has been proposed to provide the best possible levels of coverage for the local area. The existing buildings and trees in the wider distance will provide significant screening of the mast from other viewpoints.

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The proposal strikes an appropriate balance between operational and environmental considerations. The installation of this site shall maintain network services and provide 5G coverage to this area of Manchester once the existing site at United Utilities will be removed due to redeveloping the area.

Technical Information

International Commission on Non-Ionizing Radiation Protection Declaration attached (see below)	Yes	No
International Commission on Non-Ionizing Radiation Protection public compliance is determined by mathematical calculation and implemented by careful location of antennas, access restrictions and/or barriers and signage as necessary. Members of the public cannot unknowingly enter areas close to the antennas where exposure may exceed the relevant guidelines. When determining compliance the emissions from all mobile phone network operators on or near to the site are taken into account. In order to minimise interference within its own network and with other radio networks, Vodafone operates its network in such a way the radio frequency power outputs are kept to the lowest levels commensurate with effective service provision As part of Vodafone's network, the radio base station that is the subject of this application will be configured to operate in this way. All operators of radio transmitters are under a legal obligation to operate those transmitters in accordance with the conditions of their licence. Operation of the transmitter in accordance with the conditions of the licence fulfils the legal obligations in respect of interference to other radio systems, other electrical equipment, instrumentation or air traffic systems. The		

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conditions of the licence are mandated by Ofcom, an agency of national government, who are responsible for the regulation of the civilian radio spectrum. The remit of Ofcom also includes investigation and remedy of any reported significant interference.

The telecommunications infrastructure the subject of this application accords with all relevant legislation and as such will not cause significant and irremediable interference with other electrical equipment, air traffic services or instrumentation operated in the national interest.

4. Technical Justification

Enclose predictive coverage plots if appropriate, e.g. to show coverage improvement. Proposals to improve capacity will not generally require coverage plots.

Reason(s) why site required e.g. coverage, upgrade, capacity

A new site is required in this area to replace coverage and capacity which will be lost when an existing site at United Utilities, Hathersage Road, Manchester, M13 0FN is to be removed from the network.

The very high level of mobile phone use and ownership within the UK population is a very clear indication of the public's overwhelming acceptance of the benefits of mobile communications, which requires the installation and maintenance of base stations to provide the necessary connection between the mobile phones and the UK telecommunications network.

Base stations use radio signals to connect mobile devices and phones to the network, enabling people to send and receive calls, texts, emails, pictures, web, TV and downloads. Without base stations, mobiles will not work. They are made up of three main elements. The cabinets which contain the equipment used to generate the radio signal. The supporting structure such as a mast, which holds the antennas in the air and the antennas themselves. Only the antennas emit radio signals.

Many other everyday items also use radio signals to send and receive information, such as television and radio broadcasting equipment and two-way radio communications. Base stations are connected to each other and telephone exchanges by cables or wireless technology such as microwave dishes, to create a network. The area each base station covers is called a cell. Each cell overlaps with its neighbouring cells to create a continuous network. The size and shape of each cell is determined by the features of the surrounding area, such as buildings, trees

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and hills, which can block signals. When people travel between cells, the signal is transferred between base stations without a break in service. Each base station covers a certain area only and can only handle a limited number of calls at once. As mobile phones and devices become more popular more base stations are needed to ensure continuous coverage.

Further detail regarding the general operation of the network can be found in the accompanying document entitled 'General Background Information for Telecommunications Development. This information is provided to assist the local planning authority in understanding any technical constraints on the location of the proposed development.

5. Site Selection Process

Alternative sites considered and not chosen (**not generally required for upgrades/alterations to existing sites including redevelopment of an existing site to facilitate an upgrade or sharing with another operator**)

Site Type	Site name and address	National Grid Reference	Reason for not choosing site
RT	St Chrysostom's Manchester RT, 44 Anson Road, Manchester, M14 5BG	385601E, 395651N	The condition of the building is not suitable to house an installation and hence this option has been discounted.
RT	Daisy Bank Hall RT, 67 Daisy Bank Road, Manchester, M14 5QD	385905E, 395701N	The building height is not great enough to house an installation capable of providing the coverage and capacity required for the network.
RT	Dalton Ellis Hall RT, Manchester, Conyngham Road, Manchester M14 5RL	385616E, 395589N	The building is listed and is therefore not considered suitable to house an installation.
SW	Anson Road, Manchester, M14 5BZ	385803E, 395484N	This location was previously considered and the planning application 128572/TEL/2020 was refused by the LPA due to its sitting, size and detrimental impact on pedestrian movement. The new proposed installation is located down the road, away from residences on a wider area of pavement.

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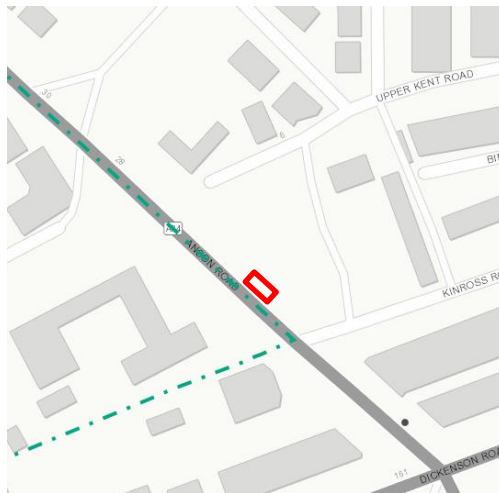
If no alternative site options have been investigated, please explain why:

N/A

Environmental Information:

N/A

Land use planning designations:



Extract from Manchester City - Interactive Proposals Map
Site is located outside Victoria Park Conservation area to the west.

Additional relevant information (include planning policy and material considerations):

Background

A new site is required in this area to replace coverage and capacity which will be lost when an existing site at United Utilities is to be removed from the network due to the area being redeveloped.

The proposal includes the erection of a 20m streetworks monopole supporting 3no. antennas and 2no. 300mm microwave dishes with equipment cabinets at ground level.

Relevant Planning Policy:

National Planning Policy Framework (2021) (NPPF)

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The NPPF sets out the Government's planning policies for England and how these should be applied. The following paragraphs are considered most relevant to the assessment of this Application:

The NPPF directly addresses the need for enhanced wireless communication services, at **paragraph 20**, which states that an LPA's strategic policies must make sufficient provision for:

*"b) infrastructure for transport, **telecommunications** (our emphasis), security, waste management, water supply, wastewater, flood risk and coastal change management, and the provision of minerals and energy (including heat)"*

Chapter 10 [Para's 114-118] (Supporting High Quality Communications) is most relevant to this application.

Paragraph 114 states that *"Advanced, high quality and reliable communications infrastructure is essential for economic growth and social well-being. Planning policies and decisions should support the expansion of electronic communications networks, including next generation mobile technology (such as 5G) and full fibre broadband connections"*. While supported, the number of base stations is encouraged to be kept to a minimum in which the efficient operation of the network can be provided.

Paragraph 115 states that *"The number of radio and electronic communications masts, and the sites for such installations, should be kept to a minimum consistent with carbon economy."*

"the needs of consumers, the efficient operation of the network and providing reasonable capacity for future expansion. Use of existing masts, buildings and other structures for new electronic communications capability (including wireless) should be encouraged".

It should be noted that **paragraph 118** states that *"Local planning authorities must determine applications on planning grounds only. They should not seek to prevent competition between different operators, question the need for an electronic communications system, or set health safeguards different from the International Commission guidelines for public exposure"*.

In supporting the requirement for a new upgraded 5G mast, Matt Warman MP (Minister for Digital Infrastructure) and the Rt Hon Christopher Pincher MP (Minister for housing state) state within the 'Changes to permitted development rights for electronic communications infrastructure: technical consultation' published in April 2021, that:

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"Digital connectivity is – now, more than ever – vital to enable people to stay connected and businesses to grow. The demand for mobile data in the United Kingdom is increasing rapidly, and the COVID-19 pandemic has highlighted how important it is that we all have access to reliable, high quality mobile connectivity. We intend to be a global leader in 5G, the next generation of wireless connectivity, and for communities and businesses to benefit from investments in this new technology. The case for 5G is compelling: it will provide faster, more responsive and more reliable connections than ever before. Through our £200 million 5G Testbeds and Trials programme we are already seeing its value to manufacturing, farming, transport networks and healthcare.....It is welcome that all four Mobile Network Operators have started to deploy 5G networks, meaning 5G is now available in over 200 towns and cities across the United Kingdom.....We must, however, continue to ensure people have access to fast, reliable digital connectivity and mobile coverage. The planning system plays a key role in delivering the infrastructure that we need as households and businesses become increasingly reliant on mobile connectivity"

As part of their continued network improvement program, Cornerstone and Vodafone have identified a specific technical requirement to maintain the coverage in this area of Manchester. In accordance with the Code of Best Practice (2016), a physical search was carried out to identify existing sites/structure in the area, however, no suitable locations were found. To accommodate the required equipment, a new streetworks installation is required to replace coverage and capacity which will be lost once the existing site will be removed and is the subject of this Application.

Para 115 of Chapter 10 of the NPPF states that Applications for electronic communications development should be supported by the necessary evidence to justify the proposed development. This should include:

- a) the outcome of consultations with organizations with an interest in the proposed development, in particular with the relevant body where a mast is to be installed near a school or college, or within a statutory safeguarding zone surrounding an aerodrome, technical site or military explosives storage area;
- and b) for an addition to an existing mast or base station, a statement that self-certifies that the cumulative exposure, when operational, will not exceed International Commission guidelines on non-ionizing radiation protection;
- or c) for a new mast or base station, evidence that the applicant has explored the possibility of erecting antennas on an existing building, mast or other structure and a statement that self-certifies that, when operational, International Commission guidelines will be met.

With respect to these criteria, a summary of consultees has been provided within this document in which no responses or comments have been received. A technical assessment has been undertaken by Cornerstone which has established that no existing installations can accommodate the required equipment and that a new

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installation is required. An ICNIRP certificate also accompanies this application and certifies that the International Commission guidelines will be met.

The proposal will enable the provision of continued reliable mobile communications services to the surrounding area, bringing about substantial public benefit both socially as well as economically by allowing for certain businesses to expand, adapt and thrive as well as giving access to new markets in accordance with **Para 114** of the NPPF. Reliable wireless technology also allows for home working, and the creation of the 'virtual office' which has becoming of increasing importance over the last year and also allows for a reduction in the need to travel which contributes to the sustainability agenda of the NPPF (2019).

Local Planning Policy Considerations

Section 70 of the Town and Country Planning Act 1990 as amended requires planning applications and appeals to be determined having regard to the provisions of the Development Plan and other material considerations, and section 38 of the Planning and Compulsory Purchase Act 2004 requires applications and appeals to be determined in accordance with the Development Plan unless material considerations indicate otherwise.

For the purposes of Section 70, the current Manchester City Local Plan does have a policy held over from the Unitary Development Plan. For ease of reference, it is copied below:

DC17.1 Applications for telecommunications developments will normally be approved if the Council can be satisfied that the development has been sited and designed to minimise its impact on residential amenity and in environmentally sensitive areas. Wherever possible, the Council will expect the potential of existing buildings and masts, including the sharing of such facilities, to be fully explored before agreeing to additional separate development.

As previously stated within this application, there are no existing installations or buildings within the search area which would be suitable for the addition of telecoms equipment. Coverage is for the residential area and the particular characteristics of that require it to be located within the area for which it provides coverage and the increasing demand for connectivity within residential areas, means that it must be located within a certain proximity to homes.

The proposal within this application have been sited, designed and applied in line with Local Policy, National Policy and CoBP as detailed below.

Within the Manchester Core Strategy Document, Policy EN 3 provides for protection of Heritage assets including Conservation Areas:

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“Policy EN 3 - Heritage

Throughout the City, the Council will encourage development that complements and takes advantage of the distinct historic and heritage features of its districts and neighbourhoods, including those of the City Centre.

New developments must be designed so as to support the Council in preserving or, where possible, enhancing the historic environment, the character, setting and accessibility of areas and buildings of acknowledged importance, including scheduled ancient monuments, listed buildings, registered parks and gardens, conservation areas and archaeological remains."

The proposed site is located outside the Victoria Park Conservation Area. The type of pole and setting between trees further away from any properties is considered to have a minimal impact on the Conservation Area.

The location chosen is closer to the Bus Stop and as such the visual line of the pavement has already been broken, resulting in the impact of the new installation being reduced. By positioning the proposed mast in a gap within the trees the site will not have an impact on branches or roots but will still benefit from the natural screening provided by the trees on either side of the mast position.

Other Relevant Guidance:

Code of Best Practice on Mobile Network Development (CoBP) 2016

The CoBP was published in 2016 and provides guidance in England to Mobile Network Operators, their agents and contractors as well as Local Planning Authorities. This document sets out the best practice with regards to the development of mobile base stations and includes best practice advice with regards to submitting planning applications including siting and appearance principles.

Appendix A of the CoBP recommends a sequential approach to siting telecommunications apparatus including the following;

- **Mast or site sharing**
- **Installation on existing buildings and structures**
- **Camouflaging or disguising equipment**
- **Using small scale equipment**
- **Erecting new ground based masts**

The Supplementary Information template used within the Code of Best Practice has been used to create this Site Specific Supplementary Information Form.

In accordance with Policy **DC17.1**, the proposed installation would not have a significant adverse effect on the area which it is to be located in and would benefit from the natural screening provided by the mature trees along the road and given

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the distance to the nearest property, a site at this location would have a minimal impact upon the local residential amenity and sensitive area.

The design and type of equipment to be deployed in this case has been chosen specifically to take account of and minimise the impact of the installation on the local area. Care has been taken to ensure that the proposed installation would integrate into the surrounding environment.

It is acknowledged that the site would be located close to the Conservation Area. In accordance with Policy **DC17.1**, there is not a site which would be suitable or available further away from this area. The Conservation Area covers a reasonable dense area. There is an identified need for coverage within this location that cannot be met in technical terms by an installation located further away from the proposed location. With regard to existing masts and structures, there are no existing masts or installations within the locality which is why it is so important to provide a site in this location to address this coverage gap. There are also no taller buildings or structures within the area which could accommodate an installation. Alternative / discounted options have already been explored under section 5 of this document.

In proposing an installation in this location, care and attention has been given to ensure that an appropriate design has been put forward which takes account of the sites sensitive location. The site is to be located on the wide pavement close to the Bus stop. It is considered that the lightweight structure of the installation would prevent it from being a dominating or visually intrusive feature within the landscape.

Whilst it is accepted that the installation would likely be visible, given the nature of the area and the heights of the surrounding trees, the installation would not be an anomalous feature.

This scale of the installation is required to successfully deliver replace coverage and capacity to the area once the existing site will be removed. The proposed design would result in a small visual change to the local area, however it is not considered that this change would result in significant harm or be detrimental to visual amenity and character, the Conservation Area. When weighed against the benefits of providing 3G, 4G & 5G signal to the locality, the proposed design should be considered favourably in the planning balance.

This location has been technically assessed and found to be the most suitable to meet local need and to allow continued coverage to the area.

Visual Impact and Appearance

The Code of Best Practice (2016) sets out a sequential approach to site selection and design as set out above. The criteria proposed within the Code have been used to inform the proposed design as shown through the following assessment:

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- **Mast or site sharing** – Not possible in this instance as no existing structures in the area to be able to accommodate the required equipment.
- **Installation on existing buildings and structures** – Not possible in this instance as no suitable structures available in the search area.
- **Camouflaging or disguising equipment** – The proposed installation has been designed to minimise its impact on the area.
- **Using small scale equipment** – The installation has been designed as low as possible in order to provide coverage to the target area. The antennas needs to oversail the local clutter.
- **Erecting new ground based masts** – The alternative sites that have been considered and discounted as previously stated within this application, led to a request for a new installation to be proposed at this location.

The design and type of equipment to be deployed in this case has been chosen specifically to take account of and minimise the impact of the installation on the area. The development will benefit from the nature of the area being located further away from residences with no properties overlooking the site. Care has been taken to ensure that the proposed installation would integrate into the surrounding environment and would not be an anomalous structure.

In all aspects of the design the smallest practical components have been utilised to ensure that the visual impact of the development is kept to a minimum and to streamline the design as much as possible. The mast is located away from residential development.

It is considered that the proposal utilises the most suitable design available to meet coverage demands and to provide suitable coverage. It is important to keep the impact of telecommunications development in the area to a minimum and it is considered this proposal achieves this. The benefits of the proposal also have to be considered. The provision of continued and improved coverage would be provided for both users. It is considered the significant public benefits of the proposal outweigh the minimal impact on the surrounding area.

Having regard to the assessment above, it can be seen that the scheme as proposed within this application has been sited and designed in line with all national and international guidelines as well as the telecommunication industries Code of Best Practice.

The proposed design has therefore sought to strike an appropriate balance between operational, environmental and planning considerations and is considered to accord with Policy DC17.1.

Summary

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National planning policy is to facilitate the growth of new and existing telecommunications systems, and operators have obligations to meet customer demands for improved quality of service. This development proposes replace coverage to the surrounding area by way of a replacement telecommunications mast and facilitates mast sharing between two operators which will also improve general coverage and capacity in the network.

There is a clear and demonstrable need for the proposal to provide improved electronic communications services. Due consideration has been given to all practicable solutions for providing the required telecommunications service and this proposal has been designed in such a way as to minimise its visual impact upon both local area, with any negative impact outweighed by the benefits of these new electronic communications services.

The proposal represents an appropriate siting and design solution for this area, balancing environmental and planning considerations. A simple design solution is proposed to mitigate visual impact and prevent harm to the local environment. The minimal impact of the development would be outweighed by the significant public benefits of the new super-fast coverage to the area.

The proposed development is compliant with the relevant policies from the NPPF and CoBP. The proposal is fully compliant with ICNIRP guidelines and declaration of compliance has been provided.

As such, we respectfully ask that this Application is approved.

Practical Applications of 5G Connectivity as Example of Material Soci-Economic Benefit:

The first generation of services provided voice calls, the second generation (2G) allowed basic data such as texting and the third generation (3G) offered internet access and the development of apps. Since then, the smart phone has developed further, and the fourth generation has brought video and much faster data speeds allowing the integration of the smart phone into wider use.

The next generation of mobile telephony is 5G which brings greatly increasing data speeds. The advantages this presents range from near-instant downloads of HD films to connected cars, smart medical devices, and smart cities. To bring this new technology Telefonica will need to provide a mix of upgrades to existing sites and the building of new sites. New sites will be needed for many reasons, including that the higher radio frequencies used for 5G do not travel as far as those frequencies currently in use leaving gaps in the network.

Although 5G will undoubtedly bring new opportunities and huge benefits to society, we cannot escape from the requirement that new structures, antennas, and ancillary

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equipment will be needed. It has been acknowledged by Government that we must ensure that we have the infrastructure in place to deliver 5G across our major centres and transport networks. This is one of the many additional structures that will be needed to provide enhanced services.

The higher frequencies that 5G will use can provide more bandwidth and thus greater capacity but the signal will not travel as far as those of previous generations. The implications to the built environment will be that more infrastructure needs to be deployed, as in this case.

Education:

The relationship between 5G and education is evolving at a massive rate with educators exploring the relevance of Virtual Reality (VR) technologies for education and training. Crucially, VR can support remote learning, allowing students a presence in the classroom even when working elsewhere.

5G's ability to deliver real-time information (low latency), ultra-fast speeds (critical for high definition images and video), increased capacity and heightened security will also allow learning on the job, thanks to technologies such as Augmented Reality (AR) goggles, which can give engineers real-time instructions on how to fix a machine on a production line, for example.

Health:

Patients across the country are now becoming accustomed to relying on remote healthcare services such as NHS 111, virtual GP appointments, and ordering online deliveries of essential medical supplies.

5G will prove critical in providing the infrastructure required to deliver remote health services over the next decade. By design, 5G's ability to deliver real-time information (low latency), ultra-fast speeds (critical for high definition images and video), increased capacity and heightened security are going to be fundamental in scaling the patient benefits of remote healthcare and keeping medical records secure and private. For instance, trials have shown that connecting ambulance crews to expert resources using 5G allows paramedics to work with doctors and conduct specialist procedures in real time whilst on the road.

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Confirmation that submitted drawings have been checked for accuracy

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Signed:		Date:	13 th January 2022
Position:	Director	Company:	Sinclair Dalby Limited
			(on behalf of Cornerstone and the above operator)

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