

SUPPLEMENTARY INFORMATION

1. Site Details

Site Name:	HURST PARK DRIVE	Site Address:	HURST PARK DRIVE, MOSSCROFT, HUYTON, KNOWSLEY, L36 1UG
National Grid Reference:	345184E, 391337N		
Site Ref Number:	30324100	Site Type: ¹	MACRO

Background information:

As part of VMO2 continued network improvement program, there is a specific requirement for a radio base station at this location to provide enhanced 3G and 4G and new 5G coverage. The proposal is for a new streetworks telecoms site and the slim and unfussy design of support structure has been chosen to minimise impact on the surrounding area. The new equipment will enable the site to provide improved coverage to the area for VMO2 (trading as O2) whilst having no discernible impact on the appearance of the area.

This application therefore seeks consent for:

The installation of a 20m high streetworks column supporting 6 no. antennas, 2 no. 0.3m dishes and ancillary equipment. The installation of 2 no. equipment cabinets and development ancillary thereto.

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 mast register available to check for suitable sites by the operator or the local planning authority?	Yes	No
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¹ Macro or Micro

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page 1

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If no explain why:		
No mast register exists. A physical search of the area was undertaken prior to the selection of a suitable site, to identify any potential opportunities for mast or site sharing.		
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:	No
Date of pre-application contact:	N/A
Name of contact:	N/A
Summary of outcome/Main issues raised:	
A description of the proposal and drawings were sent to the Knowsley Metropolitan Borough Council by email on 13 th February 2023.	
Knowsley Metropolitan Borough Council responded to confirm that pre-application advice is chargeable. Given the scope of the proposal and urgency of the requirement, it was decided to proceed to application stage without formal pre-application advice from the council.	

Annual area wide information to planning authority

Has annual area wide information been provided?	Yes
If no explain why:	
Summary issues raised:	

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page 2

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Community Consultation

Rating of Site under Traffic Light Model:	Red	Amber	Green
Outline of consultation carried out:			
A description of the proposal and drawings were sent to the St Michaels Ward Councillors Mike Kearns, Joan Lilly and Tony Ely, and also to George Howarth MP on 13 th February 2023.			
Summary of outcome/main issues raised (include copies of relevant correspondence):			
No responses have been received to date.			

School/College

Location of site in relation to school/college (include name of school/college):
St Joseph's R C Primary School and Willow Tree Primary School in proximity.
Outline of consultation carried out with school/college (include evidence of consultation):
A description of the proposal and drawings were sent to the Headteacher, Principal and Chairs of Governors on 13 th February 2023.
Summary of outcome/main issues raised (include copies of main correspondence):
No responses have been received to date.

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
Details of response:		
Liverpool John Lennon Airport responded on 13 th February raising no objections.		

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page 3

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Developer's Notice

Copy of Developer's Notice enclosed?	Yes	No
Date served:	21 st & 23 rd February 2023	

3. Proposed Development

The proposed site: This application seeks consent with regard to the siting and appearance of: <i>The installation of a 20m high streetworks column supporting 6 no. antennas, 2 no. 0.3m dishes and ancillary equipment. The installation of 2 no. equipment cabinets and development ancillary thereto.</i> There is a specific requirement for a radio base station at this location to provide enhanced 3G and 4G coverage and new 5G coverage in the area. The rollout of 5G across the country is designed to bring connectivity, in line with government guidelines, to those areas where the provision is substandard and additional capacity is required. However the very nature of 5G coverage with its high data capacity and higher frequency means that the installations have to be located within the areas where the coverage is required. Previous generations of mobile coverage have been able to provide their coverage from outside of the areas, and whereas these existing sites are being upgraded to 5G where possible, the 5G coverage is not reaching into the residential areas that were deliberately avoided before and new installations must be deployed within the area that the 5G coverage is required to serve. This does mean that new sites are required if coverage is to be improved across the country. The site is located on the eastern side of Hurst Park Drive just north of the junction with Longview Drive. The site is adjacent a car park with grass area to the rear and parade of shops beyond. The site is to the north of Knowsley's Leisure Centre and there is street furniture in the area in the form of streetlamps, road signs and traffic lights, which will all act as a backdrop to the installation preventing it from appearing as incongruous within the street scene. There are no planning constraints on the site itself or adjacent. The proposed location is shown below:
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page 4

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

N/A

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

Description:

The installation of a 20m high streetworks column supporting 6 no. antennas, 2 no. 0.3m dishes and ancillary equipment. The installation of 2 no. equipment cabinets and development ancillary thereto.

Overall Height:	20 Metres
Height of existing building (where applicable):	Metres
Equipment Housing: York Cabinet	
Width:	1.90 Metres
Depth:	0.60 Metres
Height:	1.75 Metres
Equipment Housing: Shire Cabinet	

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page 5

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Width:	1.05 Metres
Depth:	0.60 Metres
Height:	1.75 Metres
Materials (as applicable):	
Tower/mast etc – type of material and external colour:	Monopole – steel – grey RAL 7035
Equipment housing – type of material and external colour:	Cabinets - steel – grey RAL 7035

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

In designing the proposed installation, the applicant has sought to achieve a balance between technical requirements and minimising environmental impact as far as was practicable. It, however, must be acknowledged that technical constraints heavily influenced the design and limited the scope to alter the appearance of the site to a significant degree.

There are three main elements to a radio base station;

- the supporting structure that holds the antennas in the air or fixes them to a building or structure
- the antennas themselves, which emit the radio signals (along with any necessary amplifier or receiver units)
- and the cabin or cabinets which contain the equipment used to generate the radio signals
- Other elements necessary for the base station to function are the power source, feeder cables that link the equipment housing to the antennas and the various support structures, grillages and fixings, often referred to in general terms as “development ancillary to” the base station.

In terms of design, a slim and unfussy design of support structure has been chosen to take account of the sites highways location. The monopole design of support structure is the most appropriate and available design for a streetworks location. This structure has been selected over other available design such as a lattice tower with an open headframe and level antennas and is free of ancillary equipment such as tall fencing, or larger cabinets. The finish of the monopole and cabinets is proposed to be grey to match the existing street furniture and to blend into the surroundings.

The cabinets are of a type commonly seen on the street and are low level structures that, when viewed in the context of the street scene, will not be obtrusive features; they will also be painted grey, a colour typical for street furniture.

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page 6

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Whilst the proposed colour scheme has been selected taking into consideration the specific site context, the applicant would be willing to adhere to any colour scheme deemed more appropriate by the local authority.

In terms of the height of the proposed structure, it is acknowledged that the mast would be taller than the existing street furniture and trees. This is necessary to ensure that antennas are able to over-sail surrounding buildings and trees, enabling the required coverage to reach the required extent of the target area.

This height also takes into account a need to accommodate multiple technologies in one installation. These technologies are stacked on top of each other. The need to provide modern frequencies and multiple technologies in once mast, is therefore a driver of the height of the installation.

In all aspects of the design now put forward the smallest practical components have been utilised to ensure that the visual impact of the development is kept to the absolute minimum within the context of the technical constraints to design.

There is street furniture close to the site and trees to the rear and along the road and in the surrounding area all of which will provide context and screening and/or backdrop to the proposed development. The level of screening of the equipment will depend on the specific viewpoint, however overall, the screening would assist in minimising visual impact to ensure that impact on amenity is kept to a minimum. The street furniture and the nature of the area - all of which will provide screening and/or backdrop to the proposed development and assisting in minimising visual impact on surrounding amenity.

It is considered that the proposal strikes an appropriate balance between operational and environmental considerations.

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page 7

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Health and Safety - including ICNIRP compliance

This application is supported by a certificate of ICNIRP compliance. Para 118 of the NPPF (2021) states: 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.

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

As part of VMO2 continued network improvement program, there is a specific requirement for a radio base station at this location to provide enhanced 3G and 4G and new 5G coverage.

Mobile connectivity and service is required where customers live, work and play. 5G coverage and superfast mobile broadband data capacity demand will continue to increase exponentially with the introduction of IoT (Internet of Things), machine to machine connectivity, automated transport/industry and other 'smart' applications.

The rollout of 5G across the country is designed to bring connectivity, in line with government guidelines, to those areas where the provision is substandard and additional capacity is required. However the very nature of 5G coverage with its high data capacity and higher frequency means that the installations have to be located within the areas where the coverage is required. Previous generations of mobile coverage have been able to provide their coverage from outside of the areas, and whereas these existing sites are being upgraded to 5G where possible, the 5G coverage is not reaching into the residential areas that were deliberately avoided before and new installations must be deployed within the area that the 5G coverage is required to serve. This does mean that new sites are required if coverage is to be improved across the country.

The increasingly 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

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page 8

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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 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.

It is critical to understand that the UK's four Mobile Network Operators (MNOs), including Vodafone and VMO2 all utilise different technology spectrums to provide their mobile service. The spectrums the Operators utilise are allocated by Ofcom, as industry regulators on behalf of UK Government, through licence agreements with each of the individual MNOs. As such, each MNO must utilise the spectrum licenced to them. Each part of the RF spectrum has variations in terms of RF propagation. Therefore, the four individual MNO networks, and their sharing arrangements, cannot be compared directly and there will be variations in how all four networks are deployed and developed.

For this reason, all MNOs, including Vodafone and VMO2, whom continue to be competitors but share base stations where possible, have a completely different network configuration they need to fit within and build 5G service around. Therefore, the network has to be built differently, with different antennas and equipment, to take account of those spectrum and licence variations and this will lead to necessary infrastructure variations cell to cell, depending on site specific demand, local

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page 9

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constraints and requirement. As such, the various networks will have variations in how their infrastructure is deployed and developed.

The new pole will accommodate all the technologies for the operator and the 'cell' will benefit from improved service provision, including the introduction of 5G service to the area.

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.

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page 10

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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
SW	Hurst Park Drive SF, Mosscaft, Knowsley, L36 1UG	345177E, 391328N	This was identified as a potentially suitable site, however, when this site was submitted for planning under Ref: 21/00747/TEL it was subsequently withdrawn as the planning officer expressed his concerns that it was too close to the junction and the LPA suggested the current location.
SW	Longview Drive Sf, Longview Drive, Mosscaft, Liverpool, L36 6EB	345258E, 391244N	This was identified as a potentially suitable site, however, when this site was submitted for planning under Ref: 20/00229/TEL it was refused on the basis of its exposure and prominence in the street-scene being to the detriment of visual amenity. The now revised location seeks to overcome these reasons for refusal through the proposal of a site in this new location.
RT	Knowsley Leisure & Culture Centre, Longview Drive, Mosscaft, Liverpool, L36 6DY	345135E, 391251N	The rooftop of this building is pitched at an angle and of lightweight construction and so is not suitable for the installation of a telecoms site.
RT	Sunshine Car Wash, Longview Drive, Mosscaft, Liverpool, L36 6DY	345266E, 391267N	The old garage forecourt structure at this location is unsuitable for the installation of the rooftop telecommunications installation and therefore discounted.

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page 11

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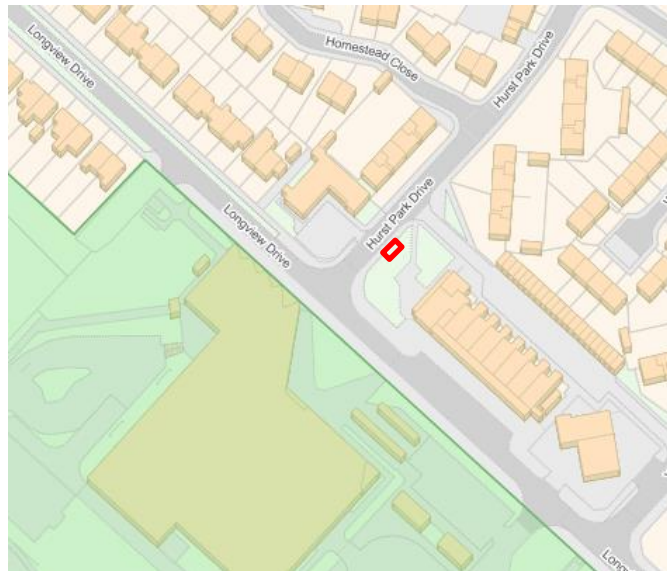
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RT	Willow Tree Primary School, Longview Drive, Mosscraft, Liverpool, L36 1XH	345377E, 391173N	Potential rooftop installation on the school building. Building is not tall enough to provide the required coverage to the area and therefore discounted.
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If no alternative site options have been investigated, please explain why:

N/A - alternative locations set out above.

Land use planning designations:



The site is not within designated areas.

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

Background

There is a specific requirement for a radio base station at this location to provide enhanced 3G and 4G coverage and new 5G coverage in this area of Knowsley.

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page 12

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The proposal includes the installation of a 20m height streetworks column supporting 6no. antennas, 2no. 0.3mm microwave dishes and the installation of 2no. equipment cabinets.

PLANNING POLICY

The following documents are considered relevant to the assessment of this application:

- a) The Town and Country Planning (General Permitted Development) (England) (As Amended) - Schedule 2, Part 16
- b) National Planning Policy Framework (2021) – Chapter 10, Supporting High Quality Communications Infrastructure
- c) National Planning Policy Guidance
- d) Code of Practice for Wireless Network Development (2022)
- e) The Knowsley Local Plan Core Strategy was adopted in January 2016 – Policy ENV8: Telecommunications Developments

Schedule 2, Part 16 of the GPDO

Schedule 2, Part 16 of the GPDO relates to the Prior Approval process for telecommunications development. This legislation has established the principle of telecommunications development. Prior Approval is therefore only assessed on the basis of siting and appearance. The development plan and NPPF (2021) is therefore only considered relevant in as far as it relates to the matters of siting and appearance.

The Knowsley Local Plan Core Strategy (2016) – Policy ENV8: Telecommunications Developments

“Proposals for new telecommunications masts and associated antennae and buildings will not be permitted unless the applicant has demonstrated that the following criteria would be satisfied:

a) Where the proposal is for a free standing mast, the need for the development could not, for technical reasons, be met in a more environmentally acceptable manner by:

- Sharing an existing mast or site,
- Erecting antennae on an existing building or other structure;

b) The development would not, by reason of its scale, siting or design, have an unacceptable impact on the character or appearance of the surrounding area, or the amenity of nearby residents.

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page 13

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2. New telecommunications development will not be permitted within environmentally sensitive areas, such as Conservation Areas, residential areas or the Green Belt, unless the applicant has demonstrated that there are no other suitable alternative sites outside such areas and that appropriate steps have been taken to minimize any visual impact through careful siting, design and screening.
3. Applications for development by telecommunications code system operators must be accompanied by:
 - a) Evidence that the proposal would comply with all relevant ICNIRP14 Standards (or future guidance which may supersede the current guidelines), taking into account any cumulative emissions from other nearby telecommunications equipment;
 - b) Evidence of how the proposal fits into the wider network, regionally and nationally.
 - c) Where the telecommunication development would be on or near a school or college site, evidence that the governing body of the relevant school or college has been consulted. "

The Local Policy has been followed in that:

- 1.a). Please see discounted options above and further explanation within the siting and design section below. There are no existing structure in the area capable for sharing and the location of the installation is dictated by a requirement to be as close as possible to the existing installation.
- b). The site has been designed to minimise the impact on the surrounding area whilst achieving the required coverage. The mast has been designed using a slimline monopole of the lowest possible height, using the smallest practical components and with the minimum amount of supporting equipment necessary to provide the required levels of coverage. The site is not located in proximity of residential development.
2. The site is not located within any designated areas.
- 3.a). The proposal is fully compliant with ICNIRP guidelines and declaration of compliance has been provided within this application.
- b). Please see consideration of this criteria under Technical Justification
- c). The proposed site is not located in proximity of schools or colleges.

Planning Assessment

Principle of Development

This is a prior approval application. As such, the only issues that can be considered when assessing this application are the siting and appearance of the proposed telecommunications monopole and cabinets. The principle of development is therefore not an issue of consideration for this prior approval application.

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page 14

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Notwithstanding this, it is useful to highlight the following paragraphs of the National Planning Policy Framework:

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".

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 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".

This proposal seeks to expand the electronic communications network to provide advance, high quality and reliable communications infrastructure in accordance with para 114 of the NPPF. This installation is proposed following an identified need for an additional base station to meet customer demands, to ensure the efficient operation of the network and provide reasonable capacity for future expansion. The operator has taken a sequential approach to development and has explored the use of existing masts, sites and buildings however a new streetworks installation is

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page 15

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considered to be the only appropriate solution to deliver the required levels of coverage within the target area in accordance with para 115 of the NPPF.

Siting and Appearance

As set out above, there is a requirement to upgrade coverage to the area to allow VMO2 to enhance its existing 3G and 4G network capacity and to provide new 5G capability to the surrounding area.

In terms of siting and following engagement with the council, this location is considered to be the most appropriate site, in the absence of viable alternatives, which can balance the technical requirements of the operator and planning considerations within the required cell boundaries. A physical search of the area has taken place and the applicant has explored the possibility of erecting apparatus on existing buildings, masts or other structures and is unable to find a suitable and/or available alternative which also meets planning considerations. As such a new mast is proposed to meet customer demand within this area. Discounted options and reasons for discounting are shown above within this document. This approach accords with criteria 1.a of Policy ENV8 of - Knowsley Local Plan.

The search area for a mast / installation is selected through technical assessment by a qualified radio planner and is based on technical data which shows the areas within which masts are required. There is limited scope to move the search area from where this assessment determines, as doing so may mean that the mast would not replicate the existing coverage pattern and could result in more masts being required to address the same demand (due to the creation of new coverage gaps) and potential for interfere with adjoining masts which are located within the locality.

The site is proposed on the eastern side of Hurst Park Drive on the eastern grass verge just north the junction with Longview Drive. Following the discussion with the LPA, the proposed location has been relocated further north the junction where the LPA suggested would be more acceptable. The site is to the north of Knowsley's Leisure Centre and is set in proximity to road signs and streetlights which will provide a backdrop for the development and partial screening from certain vantage points. The character of the area is urban, being located north-west of signalled crossing. The installation would be placed away from the pedestrian movement so as not to obstruct the pavement. The mast will be coloured grey, assimilating into its surroundings as an additional grey pole in this urban location against the backdrop of existing street furniture and mast. Due regard has been given to site the proposed

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page 16

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installation in a location which gives consideration to the skyline, topography, surrounding landscape and views into and out of the development.

The nearest properties are along the Hurst Park Road to the north of the site; however, no houses are directly overlooking the site. Sufficient separation distance has been retained to ensure that the installation would not be overbearing or detrimental to amenity.

The installation would take up a small area of the grass verge and will not impact upon pedestrian useability. It is not considered that the introduction of telecommunications infrastructure would greatly disturb the way the land is used or understood or the character of the area, particularly when weighed against the benefits of providing improved coverage to this area of Knowsley.

The location is free from planning constraint and will have no unacceptable harm on areas of ecological interest, areas of landscape importance, or heritage assets and their setting in accordance with criteria 2 of Policy ENV8.

In terms of appearance, following technical assessment by qualified radio planners and telecommunications designers, the height of the mast has been proposed at 20m. This is the lowest possible height which can still deliver the required levels of mobile phone signal to the locality due to technical constraints.

It is accepted that the proposed mast would be taller than the existing street furniture and the surrounding buildings. Whilst it would be preferable to propose the mast at a lower height which is more in keeping with the surrounding infrastructure, it is unfortunate that the technical requirements of the mast mean that this is not possible. This is because 5G signal does not travel as far and is prone to 'clipping' than lower frequencies such as 3G and 4G. It does not pass well through different materials and needs a clear space free of obstructions (such as trees and buildings) to deliver signal. As such, there is a need to ensure that the antennas are able to rise above any obstructions. Taller masts are being proposed across the country to accommodate the delivery of 5G coverage.

With regards to form and scale, a relatively slimline streetworks monopole with smaller antennas has been chosen over a bulkier and wider, standard mast or lattice tower with an open headed bracket, larger level antennas and dishes, and a large cabin and/cabinets. The development is also free of any fencing, lengths of cable trays and large areas of hard standing. The number of cabinets have been kept to the technical minimum and are of the smallest possible dimensions.

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page 17

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It is acknowledged that the installation would be visible, however, the installation would be read in the context of the existing street furniture in this urban environment. It is not considered that the installation would be overly dominant. The siting of the mast on the pavement is in keeping with the existing urban character of the area – where street furniture is generally more prevalent and there are buildings of a large scale and massing.

Balancing siting and appearance of mobile phone mast against operational efficiency can be challenging and every effort has been made in this case to ensure that the installation is proposed in the best possible location and is of the best possible appearance given the technical and planning constraints which exist. It should be acknowledged by the LPA that operators are limited on the options for where equipment can be located and how it appears, particularly with regard to the emergence of new technologies such as 5G which require different considerations than previous technologies. The location as selected is considered to be the least detrimental location within the required search area.

The installation is therefore considered to be sited and design to minimise visual impact and impact on residential amenity and character, in accordance with criteria 1.b of Policy ENV8.

Public Benefits Associated with Improved Coverage and New 5G Coverage

Mobile telecoms networks are now ubiquitous throughout the UK. Individuals and businesses expect to be able to connect and use their mobile device whenever and wherever they so require. Access to quality mobile communication services is an essential utility for the residents, businesses and for commuters that travel through an area daily.

High quality communications infrastructure is essential for sustainable economic growth. Mobile connectivity allows business to be carried out on the move, enables access to information and services anywhere, and opens new opportunities and markets. Telecommunications networks also play a vital role in enhancing the provision of local community facilities and services.

5G is expected to broaden the role that mobile technology plays in wider society by enabling thousands more 'smart' devices on the street which connect to the internet and each other. This will pave the way for new virtual and augmented reality services and help drive the take-up of new innovations such as autonomous cars and remote

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page 18

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healthcare technologies. And it could transform the way public services are delivered - such as energy and transport - by allowing greater real-time monitoring and responsiveness in order to reduce waste, pollution or congestion.

At the time of writing, the critical nature of these services has been made ever more apparent. Restrictions on travel resulting from the Coronavirus pandemic has resulted in a continued shift from office based to home working, from physical professional and social gatherings to virtual ones and to reliance on online shopping and entertainment services. Usage within suburbs and peripheral areas has therefore increased dramatically as less people travel to town and city centres.

The recently published 'Online Nation Report' (June 2022, OFCOM) is supportive of this statement, finding that *"The global pandemic since March 2020 has resulted in significant changes in online behaviour; in particular, our online shopping habits that developed during lockdown periods appear to be here to stay. Overall, online companies grew in 2021. The largest online platforms' revenues and profits increased significantly during the lockdown periods and this growth continued in 2021. The growth is being driven by UK consumers' increasing spend on e-commerce and entertainment subscription services, while advertising revenues are also increasing with the continuing brand migration to online."*

In addition this report highlights that *"data from Ipsos iris shows that 49.9 million UK individuals aged 15+ accessed the internet on smartphones, tablets and computers in September 2021 (our sample month), spending an average of 3 hours 59 minutes a day online. Young adults continue to spend the most time online, with 18- 24-year-olds spending a daily average of 5 hours 6 minutes, and the 55+ group spending the least time (2 hours 58 minutes). Women spent more time online (4 hours 11 minutes) than men (3 hours and 46 minutes). Online adults in Scotland spent the most time compared to the other UK nations (4 hours 18 minutes), while those in Northern Ireland spent the least (3 hours 25 minutes)"*.

Ofcom's 2022 communications market report (interactive data published in July 2022) reaffirms the importance of mobile technology in the UK. The average monthly data volumes per mobile data user increased by 1.1 GB (24%) to 5.6GB per month in 2021. The total number of mobile subscriptions also increased by 3% to 97.2 million in 2021.

It is clear therefore that data-based technologies, such as 4G and 5G services (provided by this proposed development), are increasingly important to our everyday lives, even during more normal circumstances.

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page 19

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This importance has been reaffirmed in a letter from Matt Warman MP, the previous minister for Digital Infrastructure, to English Local Authority Chief Executives. The letter dated 24 May 2021 accompanied the 'Consultation on Changes to Permitted Development Rights for Electronic Communications Infrastructure' and states:

"Digital connectivity is – now, more than ever – vital to enable people to stay connected and businesses to grow. The demand for mobile data 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...The planning system plays a key role in delivering the infrastructure that we need as households and businesses become increasingly reliant on mobile connectivity."

Upgrading digital telecommunications is evidently a key Government priority and one that is also set out in detail in the NPPF (2021) and summarised within the DDCMS Connected Growth Manual (2019). Furthermore, the Government wants the UK to be a world leader in 5G and has set a target for "the majority of the UK population to have access to a 5G signal by 2027" (House of Commons Library, Building Telecommunications Infrastructure, August 2021). Critical to achieving this is the ability of operators to deploy appropriate infrastructure in the places which need it most.

Differences between 4G and 5G

In their recent #checkthefacts campaign, Mobile UK highlight the biggest differences between 4G and 5G. These are broadly summarised as:

- Quicker speeds
- Improved latency - Time taken for information to travel from sender to receiver
- Improved capacity - more devices can be connected at one time
- 5G Networks can be sliced – allowing dedicated and reliable networks for local services (such as the emergency services) and individual businesses.

The new installation will bring next generation technology. The full extent of benefits of 5G technology is still unknown and will, to a significant degree, depend on the ability to provide a comprehensive network coverage. However, the possibilities and potential of the technology seem endless. If allowed, residents and visitors will benefit from:

Much faster download/upload speed and latency. Delays between information sent and received will become virtually impossible to perceive. Real-time content sharing and data will become a reality. This will effectively make buffering and loading delays

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page 20

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a thing of the past, with data only taking 1 millisecond to be received by a device after it has been requested – it currently it takes up to 60 milliseconds.

Multiple Devices can be connected. Countless devices will be able to access mobile online services at the same time. It will mean you can always stay connected. For example, if you are at a football stadium or a crowded festival with everyone trying to simultaneously upload and share their experiences to social media without loss of connection.

Improved home working. 5G rivals the speed of fibre broadband and can provide much needed connections where internet connections are still poor and in need of updating. Everyone will have access to fast and uninterrupted sharing, streaming, and browsing via their mobile phone network. It will mean accessible near gigabit capable speeds when you are out and about and could, in the future, work alongside or provide an alternative to fibre and wires in the home.

5G supports the development of the “Internet of Things”. This encompasses all the ‘smart’ and connected devices we’re starting to see in homes and beyond, from smart light bulbs and thermostats, to connected kettles, security cameras and more, most of which can be controlled by an app on a mobile phone, or by voice when paired with an AI Assistant such as Amazon Alexa. In some cases, they can even be automated, with lights for example turning on when entering a room and turning off when leaving it. They do this in part by communicating with each other, for example, motion sensors at a room entrance could adjust lighting when people enter or leave a room.

Smart Cities. It also supports the development of “Smart Cities” which develops the “Internet of Things” beyond homes and out into the world to make cities smarter. Examples include traffic lights that can adapt automatically based on traffic flow, automatic deployment of road repair vehicles when potholes are detected, smart power distribution (e.g., so that buildings are not being lit when they are empty) and rubbish bins automatically reporting when they require emptying, all leading to cleaner, safer, more efficient cities, and all with minimal human oversight.

Cars of the future. When connected to 5G, the cars would communicate and share data with other vehicles and connected infrastructure, avoiding accidents and traffic as a result, and telling smart cities where traffic is building up, so routes for other vehicles can be adjusted. This will also play a large role in self-driving cars, with its speed and reliability key to them rapidly sending and receiving information about the road and other vehicles.

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page 21

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The Environment. 5G connected devices will allow us to reduce our energy use and emissions, so we have a less negative impact on the environment. Multiple devices will connect to each other, so they know when they're in use and powerup or down accordingly. 5G will allow us to download data in a more efficient way, so we use less energy. Smart energy meters will help us reduce household energy use, and smart transport systems will help us produce fewer emissions when we travel.

More information on 5G and its benefits can be found at <https://www.mobileuk.org/5g-benefits>.

Mobile UK also have a useful Local Authority Toolkit which can be viewed through the following link <https://www.mobileuk.org/5g-local-authority-toolkit>.

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

There is a requirement to upgrade the VMO2 network in the area to provide improved coverage and capacity, most notably in relation to 5G services, but also in relation to 4G services.

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 VMO2 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 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

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page 22

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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.

Summary

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.

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page 23

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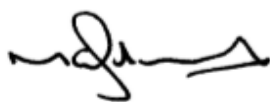
This development proposes improved coverage to the surrounding area. The proposal represents an appropriate siting and design solution for this area, balancing environmental and planning considerations.

A simple design solution is proposed to mitigate visual impact and prevent harm to the local environment. The relatively 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 local planning policy as outlined within this supporting statement. The proposal is fully compliant with ICNIRP guidelines and declaration of compliance has been provided.

As such, it is respectfully requested that this application is approved.

Confirmation that submitted drawings have been checked for accuracy

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page 24

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