Supplementary Information Form

1. Site Details	
Site Name	Chertsey Road
Site Address	Chertsey Road, Twickenham, Surrey, TW2 6LR
NGR	TQ 14122 73059
Site Number Ref	RUT20334
Site Type[1]	Macro

2. Pre-Application Check List		
Site selection		
Was a local planning authority mast register available to check for suitable sites by the operator or the local planning authority?	~~Yes~~	**No**
If no, please explain why: No register available		
Was the industry site database checked for suitable sites by the operator?	**Yes**	~~No~~
If no, please explain why:		
Annual Area Wide Information to local planning authority		
Date of information submission to local planning authority	Not requested by the LPA	
Name of contact	NA	
Summary of issues raised: Rollout plans can be provided upon request		
Pre-application consultation with local planning authority		
Date of written offer of pre-application consultation	6th May, 2022	
Was there pre-application contact?	**Yes**	~~No~~

[1] Macro or Micro

Date of pre-application contact	6th May 2022
Name of contact	NA
Summary of outcome / main issues raised: The LPA were provided with the drawings and invited to consult on the proposal prior to application. The council acknowledged receipt of the pre-application request and gave general information regarding alternative applications.	

Ten Commitments Consultation

Rating of Site under Traffic Light Model	~~Red~~	**Amber**	~~Green~~

Outline Consultation carried out: Local Councillors were contacted via email on 6th May 2022. Councillor Piers Allen responding stating that he has no objection to the proposal. All correspondence is provided, appended to this document.
Summary of outcome / main issues raised: London Borough of Richmond upon Thames responded with general guidance on development management services. All correspondence is provided, appended to this document.

School / College

Location of site in relation to school / college (include name of school / college): Clarendon Gateway Centre is approximately 210m south west of the Site. Twickenham School is approximately 290m south west of the Site.
Outline of consultation carried out with school / college (include evidence of consultation): Clarendon Gateway Centre and Twickenham School were contacted via email on the 6th May 2022 to inform them of the impending application and to offer opportunity for consultation or where any comments can be logged with the appropriate local planning authority. No comments have been received.

Civil Aviation Authority / Secretary of State for the Defence / Aerodrome Operator consultation (only required for an application for prior approval)		
Will the structure be within 3km of an aerodrome or airfield? Heathrow Airport is over 5km from the Site	~~Yes~~	**No**
Has the Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator been notified	~~Yes~~	**No**
Details of response: NA		
Developers Notice (only required for an application for prior approval)		
Copy of Developers Notice enclosed	**Yes**	~~No~~
Date served	17th May, 2022	

3. Proposed Development

The proposed development in this location is part of H3G's management and network deployment of telecommunications sites. The expectations are that future telecoms technology will support government policy regarding digital inclusion; improvements in health and social care; assisting in local economic growth; advancing the development of Smart Cities; and supporting innovative uses throughout the transport sector for both personal and public travel.

The site:

The proposed development will be located at Chertsey Road, Twickenham, Surrey, TW2 6LR (TQ 14122 73059) hereafter referred to as, 'the Site'. Figure 1 shows the approximate location of the Site.

The Site is bounded by:

- Chertsey Road (A316) to the north and west.
- Grassed land to the east; and
- Hardstanding comprising carparking to the south.

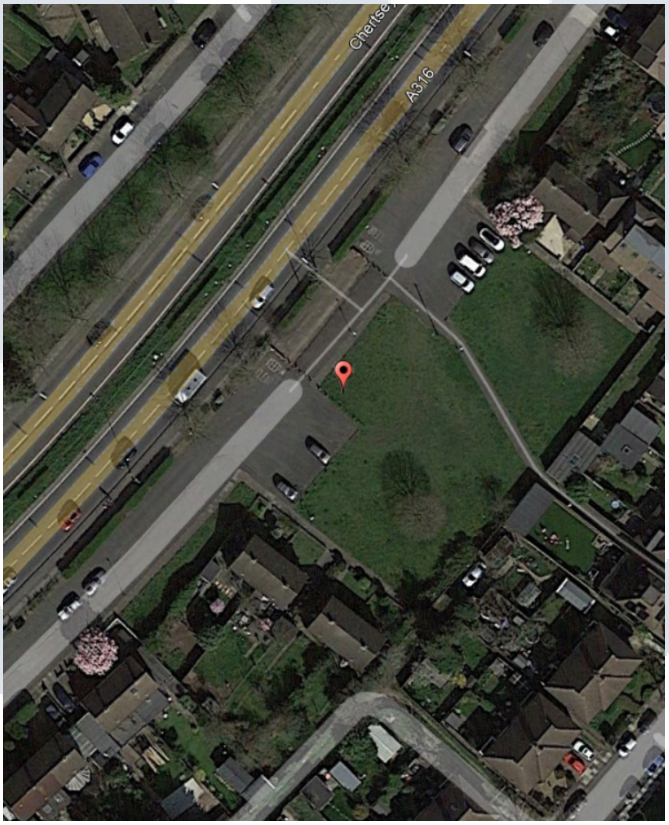

Figure 1 - Aerial Imagery of Proposed Site (Approximate site demarcated by red pointer)(Google, 2021)

The Site has been chosen as the most viable option to provide reliable coverage for the operator. The proposed development will ensure continued mobile network coverage in the area, also providing improved quality, faster and more reliable connectivity for local residents and businesses.

The Site is not located within any conservation areas, or in close proximity to any listed buildings, ancient monuments or other heritage assets. In addition, the proposed works are not located in close proximity to any designated sites such as SSSIs, SPAs, SACs, or national nature reserves. As such, the Site is not considered to be a sensitive area, and is suitable for the proposed development.

The proposed works will not require the significant removal of vegetation and will utilise existing access routes.

Alternative sites were considered, and details are provided below in Section 5. However, the chosen site was considered to be the most appropriate as the Site is not a sensitive environment and is not likely to be significantly adversely impacted by the proposed works.

Enclose map showing the cell centre and existing sites within the cell and adjoining cells:

This can be emailed to LPA on request

Type of Structure (e.g. tower, mast, etc): Mast and equipment cabinets

Description:

The installation of a 15 metre high, monopole tower to support antenna, associated radio-equipment cabinets and ancillary development hitherto.

Overall Height: 15m

Height of existing building (where applicable)			NA
Equipment Housing:	1	2	3
Length	500	700	600
Width	600	650	1900
Height	1585	950	1752

Materials (as applicable)
Steel

Tower / mast etc. – type of material and external colour	GREEN-6009
Equipment housing – type of material and external colour	GREEN-6009

Reasons for choice of Design

The proposed antenna and associated apparatus will provide improved capacity of 4G and 5G services in the area. This will ensure that the area has increased mobile upload and download

speeds, and a more reliable mobile network connection. The required improvements can only be provided by the installation of a new mast, and existing sites were not suitable to support the required apparatus.

The proposed design is of the necessary technical and design specifications to meet the requirements for mobile network connectivity and coverage. The design is in compliance with the International Commission on Non-Ionizing Radiation Protection (ICNIRP) as evidenced by the attached ICNIRP certificate.

The additional electronic communications apparatus located within the cabinets are necessary for operation.

The mast is of sufficient height to ensure network signal is not impeded by clutter including by surrounding trees whilst ensuring ICNIRP compliance. The colour for the equipment is chosen to allow the equipment to blend with surrounding landscape and to match the surrounding street lighting.

Access to the Site will be required only for installation and infrequent maintenance or in the event of emergency repairs. Service personnel would continue to access the site via existing highways and there would be no need for additional carpark spaces.

4. Technical Information		
International Commission on Non-Ionizing Radiation Protection Declaration attached (see below)* 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, Hutchison 3G Limited 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 Hutchison 3G Limited'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 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.	**Yes**	~~No~~
Frequency	GSM 1865.5-1846.5 MHz	
Modulation characteristics[2]	GMSK & QPSK	
Power output (expressed in EIRP in dBW per carrier)	56 dBm	

[2] The modulation method employed in GSM is GMSK (Gaussian Minimum Shift Keying) which is a form of Phase Modulation.
The modulation method employed in UMTS is QPSK (Quad Phase Shift Keying) which is another form of Phase Modulation.

In order to minimise interference within its own network and with other radio networks, Hutchison 3G Limited's Network operates its network in such a way that radio frequency power outputs are kept to the lowest levels commensurate with effective service provision. As part of Hutchison 3G Limited's network, the radio base station that is the subject of this application will be configured to operate in this way.	
Height of antenna (m above ground level)	Centreline 14.41m/12.75m

5. Technical Justification

The proposed development is required to allow increased connectivity and reliability of mobile networks for H3G.

Government and planning policy sets out the importance of telecommunications technology for sustainable economic development, including supporting economic growth, the transport, health and IT sectors and the development of smart cities. As stated previously, this is set out in planning policy including the NPPF, and is also reflected in a number of local development plans.

In March 2017, the Department of Culture, Media and Sport (DCMS) released an updated UK Digital Strategy (UK Digital Strategy). The strategy details the goals to ensure that the UK has a *"world-leading digital economy that works for everyone".* The UK Digital Strategy includes details of the public benefits of access to high quality communication services. As the UK is considered to be behind other nations in the provision of fast, consistent and reliable mobile connectivity, the DCMS, in conjunction with the new Electronic Communications Code (2018), intends to make it easier for operators to upgrade and share their equipment with other operators in order to help increase coverage to ensure the future growth of the UK.

The proposed upgrades are required to provide additional coverage and capacity for the area, by providing the latest antenna technology. The proposed development will provide access to these services and ensure a reliable connection into the future.

The Site is not considered to be a sensitive area, as it is not located within or in close proximity to any sites designated for nature conservation, listed buildings, scheduled monuments or any other heritage assets. As such the site is considered to be suitable for the proposed development. In addition, the Site is also not located in close proximity to any airports or airfields.

The proposed development is in accordance with policies set out in the National Planning Policy Framework (NPPF). Paragraphs 114 and 115 of the NPPF set out the importance of the provision of reliable, advanced communications apparatus for economic and sustainable development. In line with these policies, the proposed development will ensure improved communications apparatus and connectivity for the local area.

The London Plan 2021 is the Spatial Development Strategy for Greater London. It sets out a framework for how London will develop over the next 20-25 years and is part of the statutory development plan for London. Borough's Local Plans must be in general conformity with the Plan. Policy SI 6 Digital Connectivity Infrastructure highlights how important telecommunications apparatus is in ensuring London's global competitiveness and future development prospects. It states that Development Plans should support the delivery of digital infrastructure with particular focus on areas with gaps in connectivity and barriers to digital access. It even goes on to mention that provision of digital infrastructure is as important for the proper functioning of development as energy, water, and waste management and should be treated with the same importance. As the proposed would directly enhance the aims and goals of the London Plan by providing digital infrastructure and ensuring connectivity, it can be seen to accord with the Plan

The adopted Local Plan for the borough consists of the London Borough of Richmond upon Thames Local Plan (adopted July 2018). The proposed development is considered to be in line with policies set out within the Local Plan. Policy LP 1 'Local Character and Design Quality'

highlights the importance of demonstrating that proposals contribute to sustainable development. As set out in the NPPF, high-quality, reliable communications development is important for sustainable economic development, as such, the proposals are considered to be in accordance with policy LP1.

The development has been designed to match the colour of the existing vertical infrastructure within the area to soften the visual impacts and blend into the immediate area. The proposed mast is of functional design and located in an area used primarily for linkages through the borough. There is street furniture in place, primarily street lighting and road signs.

Policy LP 33 'Telecommunications' highlights that London Borough of Richmond upon Thames council aim to promote enhanced telecoms connectivity and applications for telecommunications developments will be considered in accordance with national planning policy. This aims to remove connection issues, and to promote future prosperity, in line with those principles within the NPPF. It is considered that the proposed development would address and support the aspirations for digital delivery and support the local as well as national drive to ensure a digital roll-out and this supplementary information demonstrates compliance with both local and national policy. We consider that there are no material reasons why the proposals should not be approved.

In addition to the above, it is considered that the appearance of the proposed development has been designed to align with the foundation for good design as set out in the Design Quality Supplementary Planning Document ('SPD') (adopted February 2006). Although the mast will be taller than surrounding existing infrastructure -a necessity of radio masts- the slimline monopole structure has been designed to minimise visual impact. Additionally, the massing of the equipment has again been designed such that the majority of the equipment including the radio-equipment housing will have minimal visual impact to neighbouring residents; the monopole and antenna will be in context to the streetlighting (especially those on A316) such that harm to amenity will be minimised. The colour of the finish will match with existing street furniture and the equipment has been located in the verge to avoid narrowing the footpath. The development is therefore considered to be of appropriate appearance in accordance with the Design SPD.

Overall, it is considered that the proposed development accords with national policy, including for the encouragement of development such as this to provide high quality, high-speed communications, and also aligns with the London Plan and policies contained in London Borough of Richmond upon Thames council local development plan and Design SPD.

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):

There are not suitable tall buildings within the search area which would accommodate the required equipment safely; therefore a new base station is required.

1. Chertsey Road, Twickenham, Surrey, TW2 6LR, United Kingdom: E: 514205 N: 173175
Discounted: Site is in in a densely residential area and may therefore result in an adverse visual impact and harm to neighbouring amenity.

2. Chertsey Road, Twickenham, Surrey, TW2 6LR, United Kingdom: E: 514457 N: 173442
Discounted: Site is in in a densely residential area and may therefore result in an adverse visual impact and harm to neighbouring amenity. The Site is also proposed within the footpath which would narrow the pavement, such that footpath users may experience restricted access past the equipment, especially for wheelchair users or during maintenance. This would not be acceptable in design terms, and would not be acceptable to highways, nor in accordance with local planning policy relating to design and road safety.

3. Monrose Road, Twickenham, Surrey, TW2 6LR, United Kingdom: E: 514166 N: 173497
Discounted: Site is in in a densely residential area and may therefore result in an adverse visual impact and harm to neighbouring amenity

4. Chertsey Road, Twickenham, Surrey, TW2 6LR, United Kingdom: E: 514206 N: 173222
Discounted: Site is in in a densely residential area and may therefore result in an adverse visual impact and harm to neighbouring amenity.

Additional relevant information
The expectations are that future telecoms technology will support government policy regarding digital inclusion; improvements in health and social care; assisting in local economic growth; advancing the development of Smart Cities and supporting innovative uses throughout the transport sector for both personal and public travel. Alternative sites to locate this equipment have been investigated as part of the engineering feasibility exercise to ensure continued coverage for the area due to the requirement to remove the existing mast serving the area.

Contact Details			
Name (Agent)	Rory Hollings	Telephone	NA
Operators	H3G	Fax No	NA
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Signed	*Rory Hollings*	Date	17/05/2022
Position	Senior Environmental Planner	Company	Dalcour Maclaren
For and on behalf of Hutchison 3G Limited			