GTech Surveys Limited

Digital Connectivity Statement
541 Wilbraham Road

CHANGE HISTORY

Issue	Date	Details of Changes	
0.0	29/09/2025	Working draft	
0.1	30/09/2025	First draft issue	
Author: G Phillips			Reviewer: O Lloyd

© GTech Surveys Limited 2025

Contents Page

GTech Surveys Limited

Executive Summary

1 - Introduction **4**

2 - External Infrastructure Telecommunications Utility Providers **9**

3 - BT Openreach External Infrastructure Availability **10**

4 - Virgin Media External Infrastructure Availability **12**

5 - Other Broadband Providers **13**

6 - Conclusions **14**

Appendices **15**

Broadband Connection Definitions

Data Ducting Infrastructure for New Homes - Guidance Note, March 2008, Department for Communities and Local Government

Planning Policies

Local Planning Requirements

© GTech Surveys Limited 2025

GTech Surveys Limited

GTech Surveys Limited is a Midlands based broadcast and telecommunications consultancy conducting projects throughout the entire UK. We undertake mobile phone network, television and radio reception surveys (pre- and post-construction signal surveys), conduct broadcast interference and reception investigations, and support telecommunications planning work for wind energy developers, construction companies, architects, broadcasters and Local Planning Authorities.

In addition to radio interference modelling services and television reception surveys, we produce EIA and ES Telecommunications Chapters (also known as an 'Electronic Interference Chapter'); satisfying the requirements of Part 5, Regulation 18 (Parts 5a and 5b) of The Town and Country Planning EIA Regulations 2017. We peer review ES and EIA work, liaising with telecommunications providers (Arqiva, BT etc.) and advise developers with respect to associated Section 106 (Town and Country Planning Act 1990) and Section 75 (Town and Country Planning (Scotland) Act 1997) agreements.

GTech Surveys Limited is a consultant member of the Trade Association for Content Delivery - (Confederation of Aerial Industries Ltd - CAI) and the RDI - the digital sector's professional body and trade organisation. We are listed on Constructionline and verified as a Safety Schemes in Procurement (SSIP) member by Safety Management Advisory Services (SMAS), making us compliant with the industry standard PAS 91:2013 + A1:2017.

Professional broadcast trained project engineers deliver, and supply Markel UK Ltd insured technical products to support planning applications, discharge planning conditions (including S106 Agreements) and for due diligence. For more information about GTech Surveys Limited please visit our website - www.gtechsurveys.com

GTech Surveys Ltd.
Accountancy House,
4 Priory Road,
Kenilworth,
Warwickshire,
CV8 1LL.

T: +44(0) 1926 744771

© GTech Surveys Limited 2025

Executive Summary

A desk-based assessment has been undertaken to determine the current availability of broadband services near to and adjacent to the proposed 541 Wilbraham Road development.

The findings of this broadband connectivity assessment indicate that existing broadband infrastructure and good connectivity is already available in the study area, with existing fibre installed along public roads and highways adjacent to the Site and to the Site itself. Fast download speeds are likely to be experienced. It is suggested that the developer engages with Virgin Media to facilitate a connection to their fibre network.

The Applicant will commit to enable the Proposed Development for robust connectivity and future-proof upgrading by following the statutory guidance, Approved Document R volume 1: Physical infrastructure and network connection for new dwellings (2022 edition). This presents the guidance covering the infrastructure for electronic communications requirements of the building regulations as set out in Part R of Schedule 1 to the Building Regulations and in a number of specific building regulations.

This broadband connectivity assessment can be used for reference and to accompany the planning application submission.

© GTech Surveys Limited 2025

1 - Introduction

This broadband connectivity assessment has been prepared to support an application for planning permission for the proposed development at 541 Wilbraham Road, the “Site”.

The assessment details the findings of licensed and other available information to address requirements regarding potential digital connectivity for the Proposed Development. This assessment has been prepared by GTech Surveys Limited on behalf of the applicant, Southway Housing Trust.

<u>The Proposed Development</u>

The proposal is a redevelopment of the Site at 541 Wilbraham Road. The proposal seeks to demolish the existing vacant building and construct 9 affordable apartments.

<u>The Site</u>

The Site (541 Wilbraham Road, Chorlton-cum-Hardy, Manchester, M21 0AH) is located on a prominent corner of Chorlton centre adjacent Wilbraham Road and opposite Morrisons and Chorlton Metrolink Station. The Site represents an exciting opportunity to deliver much-needed, high-quality housing for social rent in the heart of Chorlton, within a sustainable and prominent location.

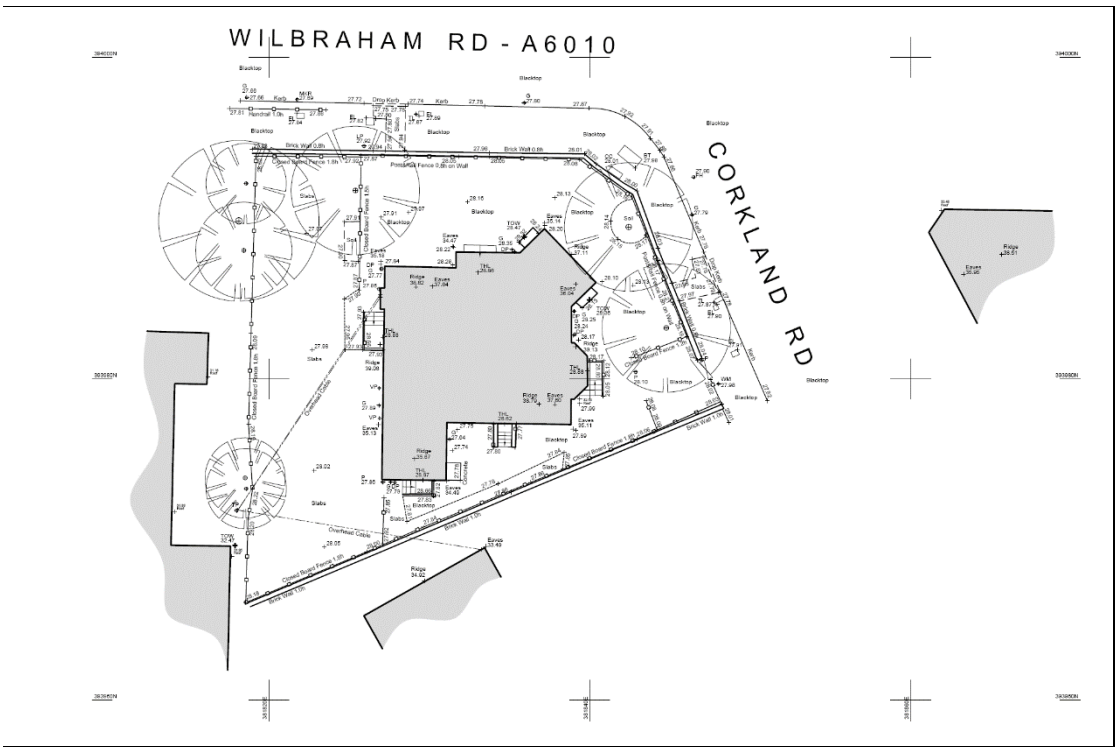


Figure 1 - The location of the Site

© GTech Surveys Limited 2025

The Assessment Requirements

Manchester City Council (MCC) requires applications for certain sized developments to include a broadband connectivity assessment. Further guidance can be found in the document; "*Full, Outline, Reserved Matters & Variation/Removal of Conditions Planning Applications - Is Your Application Valid?*", September 2018 (revised January 2020), MCC. The requirement states;

> *Broadband Connectivity Assessment*
>
> *All new build residential developments must incorporate measures to facilitate digital connectivity for all new build residential properties having regard to the Data Ducting Infrastructure Guidance produced by the Department for Communities and Local Government. (Section 10 - National Planning Policy Framework (NPPF))*

Places for Everyone (PfE) policy JP-C2 and NPPF chapter 10 presents the policy background, as detailed below.

As stipulated in the Places for Everyone Joint Development Plan Document 2022 - 2039, March 2024, it is stated in Policy JP-C2: Digital Connectivity, Part 2;

> *Requiring all new development to have full fibre to premises connections, unless technically infeasible and/or unviable, and to incorporate multiple-ducting compliant with telecoms standards, to facilitate future-proof gigabit-capable network connections. It is expected that internet connections will be operational and immediately accessible to network providers when occupiers move into new properties*

It is considered that all new build developments must incorporate measures to facilitate digital connectivity for all new build residential properties having regard to the Data Ducting Infrastructure Guidance produced by the Department for Levelling Up, Housing and Communities (Section 10 - National Planning Policy Framework (NPPF)[1]).

---

1 - NPPF Section 10, December 2024, (Department for Levelling Up, Housing and Communities)

10. Supporting high quality communications

119. 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. Policies should set out how high-quality digital infrastructure, providing access to services from a range of providers, is expected to be delivered and upgraded over time; and should prioritise full fibre connections to existing and new developments (as these connections will, in almost all cases, provide the optimum solution).

© GTech Surveys Limited 2025

Legislation

The Building etc. (Amendment) (England) (No. 2) Regulations 2022 came into force on 26 December 2022. These regulations introduce gigabit broadband infrastructure and connectivity requirements for the construction of new homes in England. They amend The Building Regulations 2010 and The Building (Approved Inspectors etc.) Regulations 2010.

Statutory Guidance

The regulations are supported by statutory guidance. Approved Document R Volume 1[2] provides information to assist developers with compliance with the requirements to install gigabit-ready physical infrastructure and gigabit-capable connections for new homes.

The Approved Document R is in a two-volume format:

Volume 1: Physical infrastructure and network connection for new dwellings provides guidance on:

‘Requirement RA1: Gigabit-ready physical infrastructure’
‘Requirement RA2: Connection to gigabit-capable network’

Volume 1 includes key terms at Appendix A, and a model connectivity plan at Appendix B.

Volume 2: Physical infrastructure for high-speed electronic communications networks provides guidance on:

‘Requirement R1: High-speed-ready in-building physical infrastructure’

This covers requirements to install high-speed-ready infrastructure in buildings that are outside of the scope of requirements RA1 and RA2. Volume 2 also includes key terms at Appendix A.

Scope of the requirements

Requirements RA1 (to install gigabit-ready physical infrastructure) and RA2 (to install gigabit-capable connections) apply to the erection of new dwellings in England; that is, the construction of a self-contained building or part of a building to be used as a new residential dwelling. More detail on the buildings in scope of the requirements is available in Approved Document R Volume 1 (paragraphs 1.2 to 1.5 and 2.9 to 2.11), while detail for buildings that are not in scope of Requirements RA1 and RA2 is available in paragraphs 1.6 to 1.7 and 2.12).

2 - https://www.gov.uk/government/publications/infrastructure-for-electronic-communications-approved-document-r

© GTech Surveys Limited 2025

Details

Guidance covering the infrastructure for electronic communications requirements of the building regulations as set out in Part R of Schedule 1 to the Building Regulations and in a number of specific building regulations.

The current technical guidance is contained in:

Approved Document R volume 1: Physical infrastructure and network connection for new dwellings (2022 edition) applies to the erection of new dwellings[3].

Developer's Guidance and Responsibility - At the Pre-Application Stage

Broadband connectivity is most helpfully and effectively raised at the earliest possible stage of the planning process. This can help to ensure that the need to provide superfast broadband connectivity is considered in prospective applicants' layout planning and costings before proposals reach the planning application stage. At the pre-application stage, prospective applicants:

- Will be reminded of the requirements of local guidance and Section 10 (NPPF) concerning broadband connectivity, i.e. the provision of superfast broadband connectivity;

- Will be advised that occupiers of the Proposed Development should be able to arrange access to superfast broadband immediately at the point of occupation; and

- Will be encouraged to liaise with broadband providers at an early stage to identify whether the Proposed Development could be connected to existing infrastructure or whether additional infrastructure would be required, and how this would be provided.

Developer's Guidance and Responsibility - At the Application Stage

Applications for planning permission for major development should be accompanied by evidence of the superfast broadband connectivity of the site, such as this report. This should take the form of a connectivity assessment, or similar proof, from one or more broadband infrastructure providers evidencing the availability of at least superfast broadband speeds. This can be submitted as part of a sustainability statement accompanying the application.

Where superfast broadband connectivity is available, the development should include the infrastructure to connect to this service and make it available to occupiers. Where superfast broadband connectivity is not currently available:

3 - https://assets.publishing.service.gov.uk/media/637f356ee90e072342b82d4e/ADR1.pdf

© GTech Surveys Limited 2025

- Applications should be accompanied by evidence that discussions have been held with a range of providers to upgrade infrastructure to deliver superfast broadband or full fibre connections.

- Where one or more providers have agreed to provide superfast broadband connectivity, the development should be designed to connect to this service and make it available to occupiers.

- Where no provider has agreed to provide superfast broadband connectivity, the development should incorporate additional dedicated telecommunications ducting to enable the provision of superfast broadband in future.

The Digital Connectivity Assessment

This assessment can be used for reference and to support the planning application submission and has been prepared by GTech Surveys Limited for the applicant. This assessment was undertaken during September 2025 to provide information regarding the connectivity around the Site and the availability of local broadband services.

This report follows the following structure:

Chapter 1 introduces the work, the assessment's requirements, the Proposed Development and Site

Chapter 2 lists which external infrastructure telecommunications utility providers are operating in the study area, with which technology and what likely upload and download speeds are available

Chapter 3 describes the existing local BT Openreach infrastructure around the Site (as of 29 September 2025)

Chapter 4 describes the existing local Virgin Media infrastructure around the Site (as of 30 September 2025)

Chapter 5 details the possible connectivity options offered by other fibre-based broadband providers

Chapter 6 presents the conclusion

© GTech Surveys Limited 2025

2 - External Infrastructure Telecommunications Utility Providers

Existing Broadband Providers in the Study Area

A number of telecommunications companies and broadband providers exist and operate in Chorlton and Manchester. Database interrogation indicates that the following providers are active around the Site's postcode centroid.

Provider	**Type of Service**[4]
BT Wholesale	ADSL
BT Wholesale	ADSL Max
BT Wholesale	WBC (21CN)
BT Wholesale	SDSL
BT	FTTC
Sky Broadband	LLU
TalkTalk (CPW)[5]	LLU
Vodafone	LLU

Potential Download Speeds

The postcode centroid is likely to be well served due to existing fibre in the area.

Availability	
Full Fibre FTTH/FTTP	✓
Ultrafast Broadband (>=100 Mbps)	✓
Superfast Broadband (>24 Mbps)	✓
Part Fibre or Full Fibre (FTTC or FTTH or Cable)	✓
Fixed Wireless	✗
LLU	✋
ADSL2+	✋
ADSL	✋

Notes

- Virgin Media cable broadband Gigabit speeds using the older coax/fibre network may be available
- Ultrafast Openreach FTTP may be available, speeds range from 40 Mbps to 900 Mbps
- Openreach copper stop sell notice is in effect, so FTTC and ADSL2+ are not available for new orders.

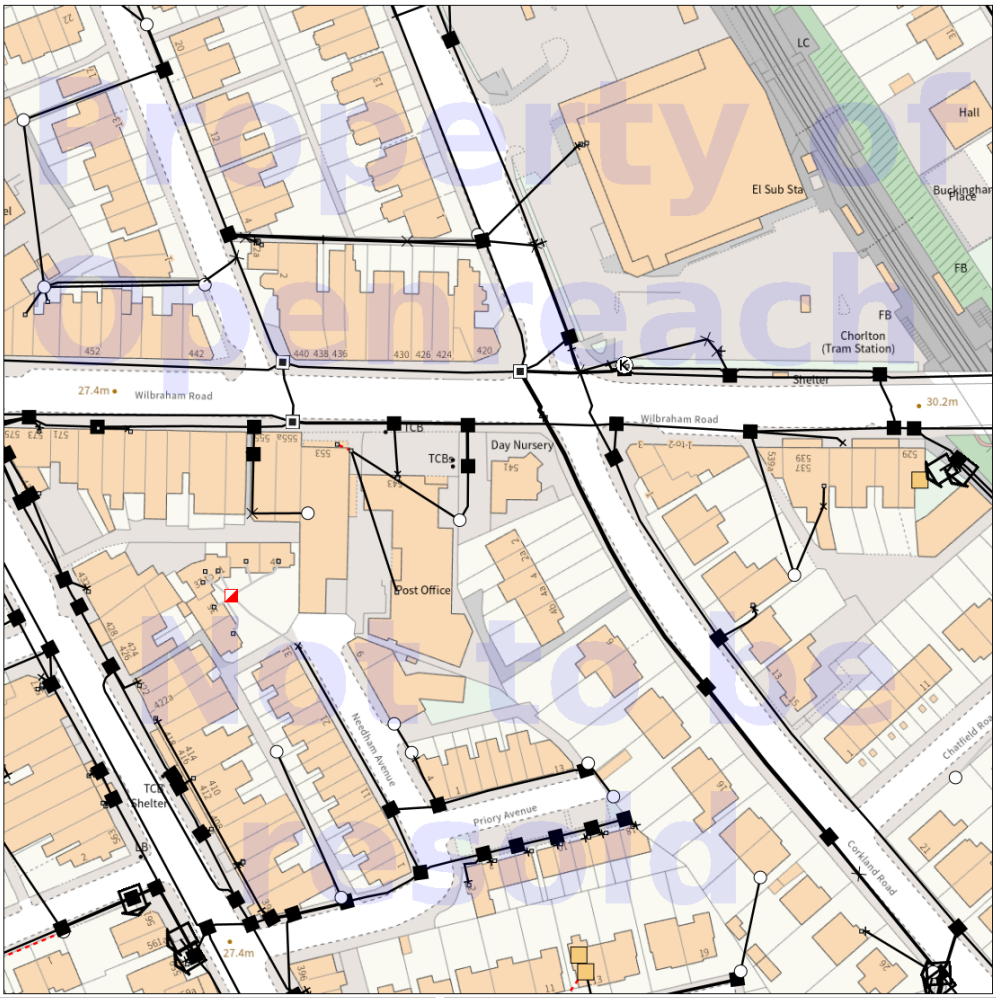
4 - Appendix - Broadband Connection Definitions for definitions

5 - Car Phone Warehouse (CPW)

© GTech Surveys Limited 2025

3 - BT Openreach External Infrastructure Availability

Maps on Demand Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made newar to BT apparatus which may exist at various depths and may deviate from the marked route.

openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

© Crown copyright 2023 OS 100028040. You are permitted to use this data solely to enable you to respond to, or interact with, the organisation that provided you with the data. You are not permitted to copy, sub-license, distribute or sell any of this data to third parties in any form.

KEY TO BT SYMBOLS

	Planned	Live
PCP		
Pole		
Box		
Manhole		
Cabinet		

Change Of State	+	Hatchings	
Split Coupling	×	Built	
Duct Tee	▲	Planned	
Building		Inferred	
Kiosk	K	Duct	

Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.

	Pending Add	In Place	Pending Remove	Not In Use
Power Cable				
Power Duct				N/A

BT Ref : CMC15546U
Map Reference : (centre) SJ8182893977
Easting/Northing : (centre) 381828,393977
Scale : 1:250
Issued : 29/09/2025 15:54:32

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

Figure 3 - BT Openreach External Infrastructure Availability

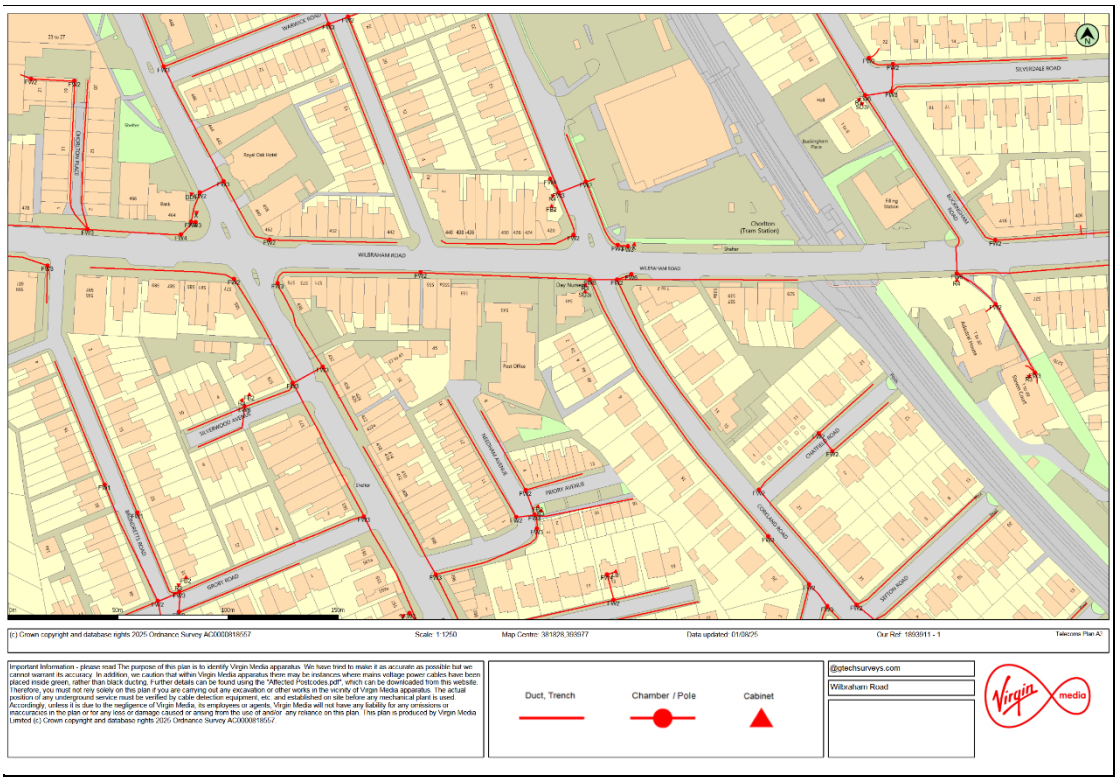
© GTech Surveys Limited 2025

BT Openreach had a universal service obligation (USO) granting remote households the right to request broadband speeds of at least 10 Mbit/s by 2020. As a result of this obligation, BT Openreach has been aggressively installing new fibre and broadband infrastructure throughout the UK, enhancing coverage in major cities and towns.

Based on BT database interrogation on 29 September 2025, there is existing BT Openreach (fibre) infrastructure located adjacent to the Site, but not into the Site itself.

© GTech Surveys Limited 2025

4 - Virgin Media External Infrastructure Availability



Based on Virgin Media's reply on 30 September 2025, there is existing Virgin Media (fibre) infrastructure near to the Site and to the Site itself.

© GTech Surveys Limited 2025

5 - Other Broadband Providers

It is considered that there are no other fibre enabled providers currently operational in the area.

© GTech Surveys Limited 2025

6 - Conclusions

A desktop study has been undertaken to assess the potential for broadband / digital connectivity to the proposed 541 Wilbraham Road development. The study has utilised licensed information and current technical data regarding connectivity from a number of sources.

The area already is likely to have excellent download speeds (expected to be at least 100+ megabits per second). Both Virgin Media and BT Openreach have existing fibre infrastructure adjacent to the Site, however, Virgin Media is better positioned to enable a full fibre connection to the Proposed Development.

It is recommended that the Applicant engages with a broadband infrastructure provider in order to establish the most optimal data infrastructure solution for the Proposed Development. It is considered that Virgin Media offers the most optimal connection, due to the location of existing infrastructure adjacent to the Site. Virgin Media can be contacted via their website[6]. To assist developers, Virgin Media have also produced a useful document (*VM O2 Developers Handbook v. 1.67, January 2025*)[7] regarding the process and requirements.

Full fibre connections represent the most future-proof form of infrastructure. New development should look to increase the spread of full fibre connections, which have the potential to boost Chorlton's and Manchester's economy; help businesses grow and be more productive; and provide more symmetrical upload / download speeds for residents and businesses. Full fibre connections also offer greater reliability and lower energy / maintenance costs.

The Applicant will commit to enable the Proposed Development for robust connectivity and future-proof upgrading by following the statutory guidance, Approved Document R volume 1: Physical infrastructure and network connection for new dwellings (2022 edition). This presents the guidance covering the infrastructure for electronic communications requirements of the building regulations as set out in Part R of Schedule 1 to the Building Regulations and in a number of specific building regulations.

This digital connectivity assessment can be used for reference and to accompany the planning application submission.

6 - https://www.virginmediapartners.com/developersnetworkexpansion

7 - https://prod.ctassets.virginmedia.com/uploads/VM_02_Developers_Handbook_V1_67_January_2025_42c252fb6a.pdf

© GTech Surveys Limited 2025

Appendices

Broadband Connection Definitions

Data Ducting Infrastructure for New Homes - Guidance Note, March 2008, Department for Communities and Local Government

Planning Policies - National Planning Policies

Local Planning Requirements

© GTech Surveys Limited 2025

Broadband Connection Definitions

ADSL - Asymmetric Digital Subscriber Line broadband is a connection provided over home telephone lines. Openreach owns the UK's landline infrastructure, so when you have an ADSL connection, you need to rent your phone line from Openreach. If you already have an existing phone line, the broadband is added onto the package. Openreach was previously owned by BT, but ADSL packages can be sold by providers other than BT through a process known as local loop unbundling (LLU). This means that a secondary provider, for example Plusnet or TalkTalk, put their own software in the telephone exchanges and rent line and exchange space from Openreach. Although not as fast as fibre broadband, ADSL provides a high-quality, reliable connection. But if you live far away from your telephone exchange, or if the cable has degraded, then speeds can drop dramatically.

FTTB (fibre to the building/basement) - Fibre-optic cables run all the way to your premises, which is why this is sometimes called **FTTP** (fibre to the premises). For those in flats in a large building, the fibre terminates at the building rather than the individual dwelling. It still provides very fast speeds.

FTTC (fibre to the cabinet) - Fibre-optic cables run all the way to the cabinet in the street, which can be up to 300m away. The cabinet is connected to the property with regular copper wires, which results in a loss of speed. This is the most common connection.

FTTH (fibre to the home) - Fibre-optic cables run all the way to the outside of the property. This is the quickest service, delivering speeds of up to 900Mbps, but it's not widely available.

FTTN (fibre to the node) - Roughly the same as above, only the street cabinet can be further away; up to several km away, with the rest of the distance to the property being covered by regular copper wiring.

LLU - LLU stands for local loop unbundling and applies to ADSL (BT line) internet connections. A 'local loop' is another term for the actual cable through which a user will receive broadband and telephone calls.

SDSL - A symmetric digital subscriber line is a digital subscriber line that transmits digital data over the copper wires of the telephone network, where the bandwidth in the downstream direction, from the network to the subscriber, is identical to the bandwidth in the upstream direction, from the subscriber to the network.

© GTech Surveys Limited 2025

21CN wholesale broadband products - There are two main flavours of 21CN broadband product, which are summarised below:

IPStream Connect - A 21CN variant of the existing IPStream product, with all of the same options and pricing.

Wholesale Broadband Connect (WBC) - The broadband product offers up to 24Mbps ADSL2+, QoS and considerably more flexibility for ISPs. In addition to WBC, there also exists WBMC (Wholesale Broadband Managed Connect) and WBCC (Wholesale Broadband Connect Converge).

© GTech Surveys Limited 2025

Data Ducting Infrastructure for New Homes - Guidance Note, March 2008, Department for Communities and Local Government

The Data Ducting Infrastructure for New Homes - Guidance Note, March 2008 has been superseded by updated UK building regulations. The requirements for data infrastructure in new homes are now governed by Approved Document R, Volume 1 (2022 edition), which came into effect on December 26, 2022.

Key differences in the new regulations

The 2008 guidance note was a voluntary document intended to encourage developers to install ducting. In contrast, the 2022 Approved Document R introduces a mandatory framework with much higher standards for new homes built in England.

Feature	2008 Guidance Note	2022 Approved Document R (Vol. 1)
Status	Voluntary best-practice guidance.	Mandatory legal requirement under the Building Regulations 2010.
Mandate	Encouraged consideration of installing ducting for potential future data services.	Mandates the installation of gigabit-ready physical infrastructure and a gigabit-capable connection.
Connection speed	Refers generally to "data services" without a specific speed target.	Requires a connection capable of delivering download speeds of at least 1,000 Mbps (1 gigabit), where possible within a cost cap.
Connectivity plan	Did not require a formal plan.	Requires developers to submit a "Connectivity Plan" for Building Regulations approval.

© GTech Surveys Limited 2025

What the updated guidance means for developers

Mandatory connectivity: Developers must now install physical infrastructure and ensure a gigabit-capable connection for each new dwelling.

Infrastructure hierarchy: If a gigabit-capable connection is not possible within the cost cap, developers must provide the next best available technology.

Official guidance: The authoritative source for developers is now the two-volume Approved Document R:

- **Volume 1:** Applies to new dwellings.
- **Volume 2:** Applies to other new buildings and major renovation works.

This presentation by Virgin Media provides an excellent visual guide to how installations should be planned -

https://prod.ctassets.virginmedia.com/uploads/VM_02_Developers_Handbook_V1_67_January_2025_42c252fb6a.pdf

© GTech Surveys Limited 2025

Planning Policies

National Planning Policy Framework (NPPF), Department for Levelling Up, Housing and Communities, December 2024

10. Supporting high quality communications

119. 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. Policies should set out how high quality digital infrastructure, providing access to services from a range of providers, is expected to be delivered and upgraded over time; and should prioritise full fibre connections to existing and new developments (as these connections will, in almost all cases, provide the optimum solution).

Local Development Plans

Places for Everyone Joint Development Plan Document 2022 - 2039, March 2024, it is stated in Policy JP-C2: Digital Connectivity, Part 2 that;

Requiring all new development to have full fibre to premises connections, unless technically infeasible and/or unviable, and to incorporate multiple-ducting compliant with telecoms standards, to facilitate future-proof gigabit-capable network connections. It is expected that internet connections will be operational and immediately accessible to network providers when occupiers move into new properties

© GTech Surveys Limited 2025

DISCLAIMER

This Report was completed by GTech Surveys Limited on the basis of a defined programme of work and terms and conditions agreed with the Client. We confirm that in preparing this Report we have exercised all reasonable skill and care considering the project objectives, the agreed scope of works, prevailing site conditions and the degree of manpower and resources allocated to the project.

The findings in this document were correct and accurate on the day of draft issue (30 September 2025) but cannot be guaranteed to remain the same for any defined period. This report assumes that there will be changes to telecommunications networks and other surrounding structures, which may result in different broadband technologies becoming unavailable or degraded. GTech Surveys Limited will not be held liable for costs of any requirement to conduct more diagnostic assessments due to changes within the surveyed environment, or due to changes in networks in the study area. BT Openreach information is valid only for 90 days from issue.

GTech Surveys Limited accepts no responsibility to any parties whatsoever, following the issue of the Report, for any matters arising outside the agreed scope of the works. This work was conducted under GTech Surveys Limited's standard terms and conditions which can be found on our website.

This Report is issued in confidence to the Client and GTech Surveys Limited have no responsibility to any third parties to whom this Report may be circulated, in part or in full, and any such parties rely on the contents of the report solely at their own risk.

Unless specifically assigned or transferred within the terms of the agreement, the consultant asserts and retains all Copyright, and other Intellectual Property Rights, in and over the Report and its contents.

Any questions or matters arising from this Report should be addressed in the first instance to the Project Manager.

© GTech Surveys Limited 2025