

Route Approval Document

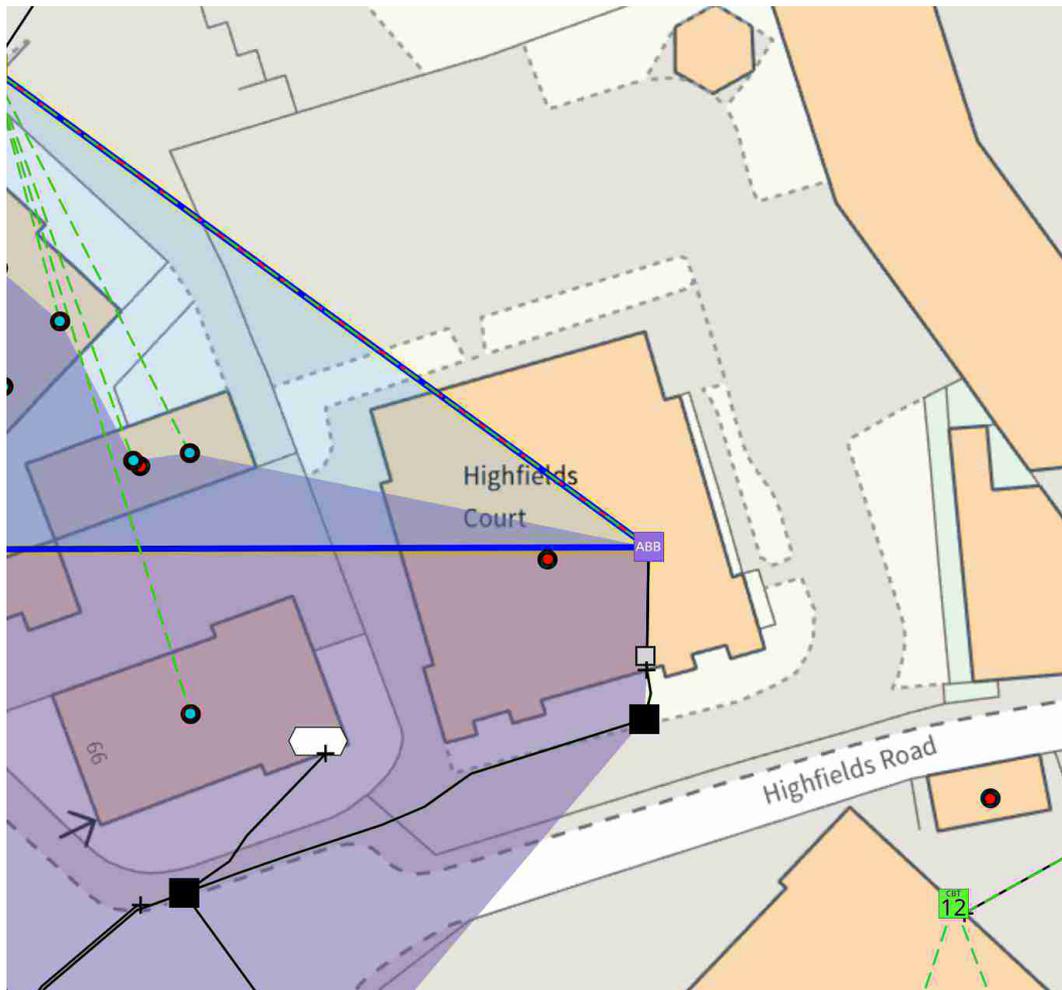


openreach

JOB NOTES

openreach	FTTP MDU - INTERNAL ROUTE DESIGN
MDU ID	SM-00066273
NGWFMT Project ID	KYCPS
Grid Reference	413871.0000,417208.0000
Site Address	highfield court, huddersfield, HD15NG
Property Agent/Manager/Owner	HIGHFIELD COURT RESIDENTS (HUDDERSFIELD) LIMITED;- ,Flat 6,No Value,Highfield Court,Kirklees,West Yorkshire,,HD1 5NQ;akhan@watspm.co.uk
Telephone No	01132738788
Access Contact Details	Aleena Khan;01132738788;akhan@watspm.co.uk; Asbestos Report and Access Info saved to Teams file
Openreach Contact Details	612958652;+447483442411,+447483442411,lois.whitaker@openreach.co.uk
Exchange Name	HUDDERSFIELD TE
THP	19
Company	Chief Eng - North DL
Orion Workorder ID	MDU_MDU6100000002836213A
Surveyor Details	Millar McCoy, millar.mccoy@openreach.co.uk

OS MAP



OS IMAGE

BUILDING OVERVIEW



Exterior view of the property

EXTERNAL

HAZARD IDENTIFICATION INFORMATION

Hazard ID	Hazard	Possible Locations/People affected	Yes/No	Minimum Requirements
1	Impact on access for emergency services	Hospital Entrance, Ambulance Station, Fire Station, Police Station	No	Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents/emergency services. Clean High Vis PPE worn at all times on site. Further risk assessment may be required taking into consideration access for emergency vehicles at all times.
2	Children from Schools, Colleagues, University etc, getting access to the site (falling into trenches, interfering with equipment, guarding)	Schools, Colleagues, University, Nurseries, Playground etc.,	No	Permission to be granted by school headmaster before works commence. Provide NRSWA, Chapter 8 signing and guarding. Ensure equipment/vehicles are made safe before leaving unattended. Good Housekeeping on site. Undertake works during holidays / weekends
3	Pedestrians visiting Doctors Surgery, Health Centre, getting access to the site (falling into trenches, interfering with equipment, guarding)	Doctors Surgery, Health Centre	No	Provide NRSWA, Chapter 8 signing and guarding. Ensure equipment/vehicles are made safe before leaving unattended. Good Housekeeping on site. Further risk assessment may be required taking into consideration necessary temporary structures if our works will disrupt / temporarily put out of service specific requirements i.e. ramps
4	People falling into excavations. People falling over Barriers	All sites; Pedestrians including blind / partially Sited Persons, physically Disabled Persons, old persons.	No	Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents. Good Housekeeping on site. Clean High Vis PPE worn at all times on site.
5	Dust, Animal Droppings, Grease, Food waste etc.	Buildings.	No	On discovery of excessive dust, animal droppings, grease, food waste etc, works must stop and management / supervisor to make a decision as to whether they would be able to safety clean and dispose of it. If not, then it must be reported to the Openreach management team who will arrange for the area to be cleaned.
6	Confined Space Environment	All sites	No	Ensure that supervisors / managers have sufficient experience and have been trained to be able to recognise a confined space, - including when a non-confined space would change to a confined space due to their / others activities. All confined space work to be undertaken must follow the HSE guidance L101 (Safe Work in Confined Spaces).
7	People falling into open manholes.	All sites	No	Follow the guidance as prescribed by NRSWA paying particular attention that all open manhole must have sufficient protection around them at all times and that gases test testing is to be undertaken
8	Disturbance caused - noise, lighting	All sites	No	Ensure that adhere to the time restriction given for noise / lighting. The Local Authority's environmental Health Officer will be kept informed of all upcoming activities that may impact local residents. All plant and machinery will be switched off when not in use. All plant and machinery will be maintained and serviced to minimise noise. Dust reduction measures to be employed if necessary.

9	Explosion, Electrocutation and/or Burns	Plant or Works close to Overhead Lines, Exposed Electric Cables, Underground Electrical services. Private land where utility information is unregulated.	No	Refer to PU Prints, Contact Utility if request on plans prior to works commencing. Mark up Services, Detection Equipment used on site (Cat & Genny). Stop work and inform relevant utility immediately if damage occurs. Highly visible barriers should be erected at least 6 m away from overhead lines to prevent inadvertent approach to them. Crossing points beneath the overhead lines need to be clearly defined by means of red and white goalpost and signs. On private land, utility information is often out of date or unrecorded / not regulated. Use safe digging and construction methods on private land.
10	Danger of Explosion and/ or escape of noxious gases- Risk of damage caused to underground services	Exposed Gas duct, Underground Gas services Private land where utility information is unregulated.	No	Refer to PU Prints. Contact Utility if request on plans prior to works commencing and Mark up services prior to work commencing. Stop work and inform relevant utility immediately if damage occurs. On private land, utility information is often out of date or unrecorded / not regulated. Use safe digging and construction methods on private land.
11	Danger of being struck by Train	Works near railways. Level Crossings	No	Method statement required. Liaise with the railway operators
12	Ignition of Hazardous Fumes	Works near Petrol Station, Landfill sites. Gas Leak	No	Liaise with local businesses e.g. Petrol Station. No smoking or use of mobile phones near to the site. Gas testing prior to start of works and constant monitoring of gas levels required.
13	Danger of Flooding and / or Drowning	Existing Water Main Works close to river, lakes, lochs, sea	No	Rescue crews and equipment available on site, to be operated by trained and competent personnel only.
14	Inhalation of toxic gas and oxygen deficiency Asphyxiation caused by contamination	Confined Spaces e.g. Tunnels, Manholes, Trenches/Excavations Contaminated Land, Landfill sites	No	Gas Monitoring equipment available on site. Follow a safe system of work. Rescue procedures should be instructed prior to work commencing. Rescue crews to be deployed as required. Only trained and competent personnel (Minimum requirement Confined Space Entry and emergency escape with 5 minute escape set) to be deployed. No Lone Working under any circumstances.
15	Drilling through existing utilities while Drilling through walls and slabs	Masonry Wall Concrete Wall	No	Liaise with Building Manager. Ensure that worker is familiar with utilities plans and have undertaken further checks to be satisfied that there are no services prior to drilling. Mark up Services/Cables prior to work commencing.
16	Slips, trips and falls	Poor re-instatement, Damage to permanent surface, stored materials, trailing hoses or cables, Trailing pipe work	No	Remove waste and rubbish as it arises. Good Housekeeping. Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents/emergency services.
17	People struck by vehicles entering or leaving the site		No	Use a Banksman. Clean High Vis PPE worn at all times on site. Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents/emergency services. All vehicles must be driven/operated/towed in an appropriate way with safe loading of the vehicle
18	Physically / Verbally Threatening Behaviour	Known trouble spots. Anywhere	No	Treat members of the public politely. All verbal or physical threatening behaviour from residents, members of the public or third parties must be report to the Openreach management team who will report it through the Openreach Accident / Incident reporting system. These must also be reported to their own contractor management.

19	Evidence of Discarded Medicines / Needles - infection caused by any of these.	These can be found anywhere. Often sited in around drains, back lanes, Red light districts	No	Contact Local Authority Environmental Health Department for their removal. Keep cuts & abrasions covered with an impervious dressing. Wear heavy duty impervious gloves. Good Hygiene practices
20	Hit by falling tools / equipment	Steep Inclines. Narrow working area Work at height	No	Good Housekeeping. Equipment / tools should not be stored near the trench or on working platform. Kick boards to be deployed on all working platforms.
21	Working at height	Work on ladders, work on the roofs, work on cherry pickers.	No	Ensure that all working at height activities meet the stipulations as set out in the appropriate HSE approved code of practices and guidance's for working at height. They must ensure that an appropriate risk assessment has been undertaken for all working at height activities and that the controls highlighted have been put into place prior to the activities commencing. Any equipment to be used must be; Suitable for the task / environment, Be maintained / checked, Appropriate training given for those who are to use it.
22	Lone Working		No	Regular contact between the worker and their supervisor. Check must be made that the worker has returned to their base on completion of the task. Access to adequate First Aid Kit
23	Burning, Temporary Blindness from lasers	Working with live fibres	No	Good Housekeeping - removal of sharps . Eye Wash available. Power down all lasers prior to work on working fibres. Deploy Laser Protection Glasses/Goggles where not possible to confirm powering down of equipment. Check for laser deployment using with Live Fibre Identifier but bear in mind that this is not a conclusive test.
24	Woodland Fire		No	Leave site immediately. Contact Emergency Services as soon as possible
25	Interference with fire escape routes from surrounding buildings	All sites	No	Ensure that the escape routes are not blocked by works or equipment. Where this is not possible the building manager will need to be informed in sufficient time to make alternative arrangements and brief all on site. Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents/emergency services. Clean High Vis PPE worn at all times on site.
26	Danger from Weils Disease (leptospirosis)	Works near lakes, rivers, sewers and other standing water	No	Contractor need to ensure that they have briefed all they relevant staff on the necessary precautions to prevent the contraction of Weils disease which should include as a minimum: Keep cuts & abrasions covered with an impervious dressing. Wear heavy duty impervious gloves. Good Hygiene practices. Carry Leptospirosis warning card if working in areas of likely rodent infestation. Notify doctor of possible contact with rodent habitat if reporting with flu like symptoms.
27	Danger from Legionella / Pontiac Fever	Cooling towers, air conditioning systems	No	Any illness should be reported immediately. Mask should be work during works.
28	HGV vehicles impact with trench/ personnel	Steep inclines Road Bends	No	Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Liaise with local residents. Clean High Vis PPE worn at all times on site.
29	Heavy plant toppling into an excavation.	Steep inclines, narrow road/lane	No	Stop blocks provided. Never tip over an edge without approved stop blocks. Plant should be located away from trench edges
30	Risk of trench collapse from surcharging	Buildings, banking or other structures increase additional loading to the ground	No	Batten back trench sides. Trench Sheet piling in Strips Plant, equipment and tools should be located away from the trench edges

31	Interference with structural integrity of building		No	Liaise with Building Manager prior to work commencing
32	Traffic Accidents	Areas of congestion. Local Accident Black spots	No	Provide NRSWA, Chapter 8 signing and guarding. Adequate barriers and equipment on site. Clean High Vis PPE worn at all times on site.
33	Asbestos (ACM – Asbestos Containing Material)	Buildings constructed or refurbished between 1950 and 1996. Insulating coating on steelwork Lagging on pipes boilers Some decorative plaster Old Firestopping materials Corrugated roofing materials	No	In order to avoid asbestos, information must be obtained on the location and condition of asbestos prior to work commencing from the building manager (Asbestos Register) Liaise with the Building Manager during works. Third party contractors to ensure that they have familiarised themselves with the sites asbestos survey in relation to the areas that they will be working. No works to take place if asbestos is present in the areas to be worked in or if there is a risk that asbestos in other areas could be disturbed by the work activities or through the access to the working area. Third party contractors who are working within buildings for Openreach and who are at risk of coming into contact with asbestos materials must have received appropriate training for the identification of asbestos materials. If asbestos / suspected asbestos is discovered then works must stop immediately and be reported to Openreach as soon as possible The Openreach management team will require specific information and may request help from the Openreach Health and Safety Team. Found asbestos / suspected asbestos must also be reported to your own company management team.
34	Listed Building	All site	No	Listed Building consent will need to be obtained via the Landlord prior to any work commencing. No deviation to route once agreed should be made without further consents
35	Other		No	

LISTED BUILDING INFORMATION

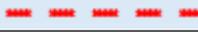
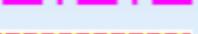
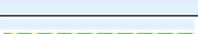
Is this a listed building?	Yes
Has the freeholder applied for listed building consent?	Yes
Has evidence of consent been uploaded below?	No

ASBESTOS INFORMATION

Are there any known asbestos issues onsite?	No
Has the landlord confirmed no asbestos onsite?	Yes
Was the building constructed before 2000?	Yes
Does an Asbestos Register exist?	Yes
Can the proposed route be delivered safely?	Yes
Is route sampling required?	No
Are there any other known risks on the site?	No

Annotation Key

OS Symbols			
Icon	Description	Icon	Description
	House		Filled House
	New House		Filled New House
	Garage		Filled Garage
	Road		

Lines			
Icon	Description	Icon	Description
	Existing Duct		Proposed Duct
	Duct 54		Duct 56
	BT Duct 56		Aerial Cable
	Riser Guard		Trunking
	Internal Cable		

Network Structures			
Icon	Description	Icon	Description
	Existing Joint Box		Proposed Joint Box
	Chamber		Man Hole
	Joint Box Re-enforced (JRF)		Joint
	External UG Joint		Percussion drill/Fire Mastic filled
	Existing Pole		Proposed Pole
	Existing Stay		Proposed Stay
	Existing Distribution Point (DP)		Proposed Distribution Point (DP)
	Existing Primary Cross Connection Point (PCP)		Proposed Primary Cross Connection Point (PCP)
	Valve		Blockage
	Existing Fibre Node Terminating (Tcode)		Proposed Fibre Node Terminating (Tcode)
	Existing Fibre Node Splitting (Ycode)		Proposed Fibre Node Splitting (Ycode)
	Recover		Hole Drilled and Filled

Internal Structures			
Icon	Description	Icon	Description
	Existing Access Hatch		Proposed Access Hatch
	Existing Riser		Proposed Riser

Internal Terminations			
Icon	Description	Icon	Description
	Existing Rapid Distribution Terminal (RDT)		Proposed Rapid Distribution Terminal (RDT)
	EZ Connect Green		EZ Connect Black
	CBT Green		CBT Black
	Basement Box		Basement Box
	Budi Box		Budi Box
	Existing UFS2 Intermediate Joint		Proposed UFS2 Intermediate Joint
	Existing UFS2 Splitter Node		Proposed UFS2 Splitter Node
	Existing UFS3 Intermediate Joint		Proposed UFS3 Intermediate Joint
	Existing UFS3 Splitter Node		Proposed UFS3 Splitter Node
	Existing SLIM Box		Proposed SLIM Box
	Existing ETB		Proposed ETB

Fire Stopping			
Icon	Description	Icon	Description
	FS Plug		FS Collar
	FS Disc		FS Mastic
	FS Sleeve		

CIVILS INFORMATION

No civils required on customer's property

FLOOR PLAN INFORMATION

Floor name: basement, ground, 1, 2, 3



floor plan

INSTALLATION INFORMATION



Existing UG route is blocked by water pipes, and would require utilising small crawl space/confined space.

Overhead route most appropriate way of feeding the building and existing cables to elevations already exist

route 1



cable route 2

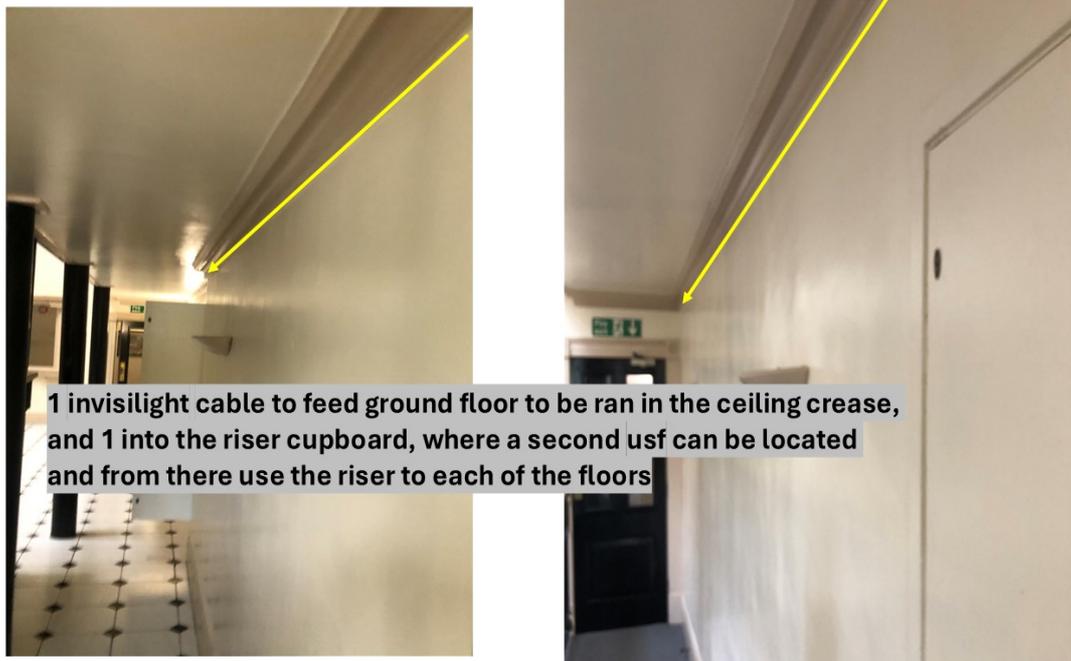


Use existing hole to bring cable into the building. And locate USF above existing black box.

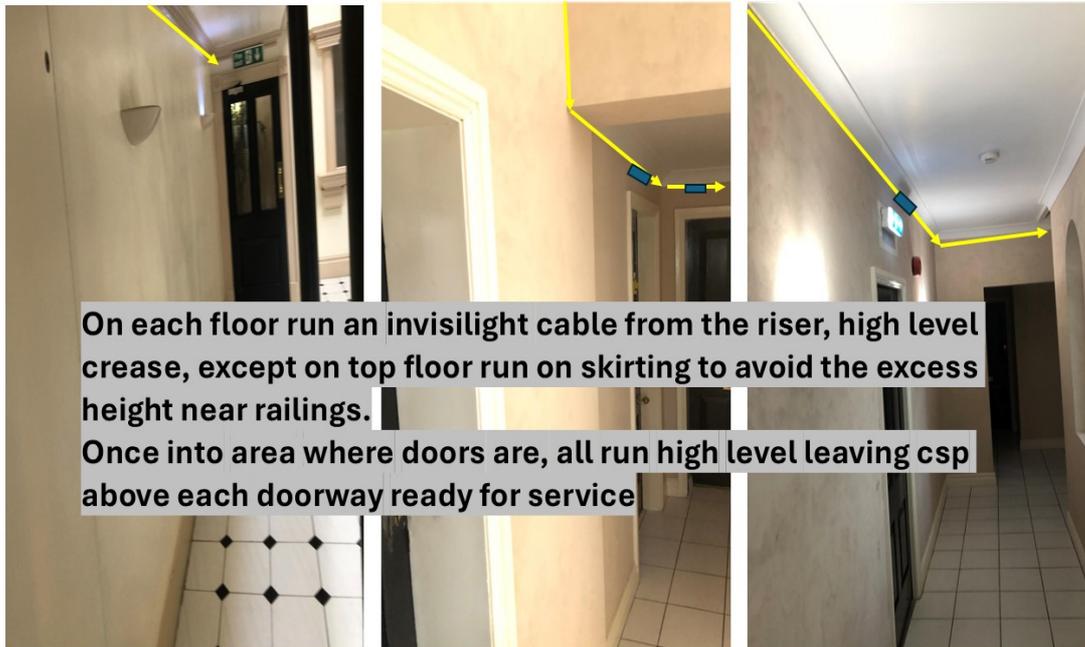
From there use invisilight cable to feed each floor and 1 external cable for external flats.



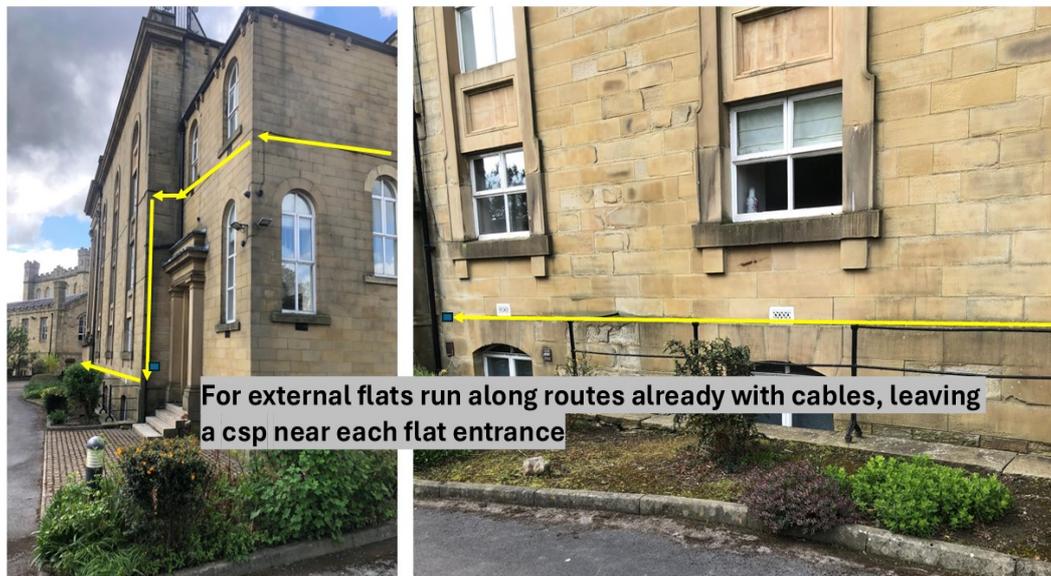
route 3



route 4



route 5



route 6

Glossary

Abbreviation	Description
CBT	Connectorised Block Terminal
CDM	Construction Design Management
CSP	Customer Service Point
DP	Distribution Point
ETB	External Transition Box
FDC	Fibre Distribution Cable
JRF	Joint Box Re-enforced
Mpack or COF216 Cable	Fibre cable with a small outer diameter. The make up of the cable means it can be discretely run along a façade
MPOE	Main Point of entry in to the MDU N.B. there can be more than one external lead in duct feed into an MDU, from the OR external network
PCP	Primary Cross Connection Point
POE	Point of Entry
PON	Passive Optical Network
RDT	Rapid Distribution Terminal
Tcode	Fibre Node Terminating
TMA	Traffic Management Application
TRR	Test Rod & Rope
UFS	Universal Fibre Solution
W1-10	Work Point location
Ycode	Fibre Node splitting

Note

The Openreach engineers who have worked on this project have been trained by Smart Awards, an Ofqual regulated body, receiving qualification SA030, Fire Stopping Installation.