

Installation Proposal

Printing Press House
Manchester, M4 4HD
3278127673



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Project Details & Site Information

For internal use only

Site Details	
Site Name	Printing Press House
Site ID	3278127673
Project / Group Name:	Urban Bubble
Site Address:	Printing Press House 17 School Street Manchester M4 4HD

Hyperoptic Information	
Principal Designer:	Hyperoptic Ltd
Business Partner:	N/A
Designer Name:	M Pyshnenko
Designer Ref:	MP 407

General Site Information	
No. of Buildings	1
No. of Floors:	6
No. of Residential Premises	61
No. of Business Premises	0
Total No. Premises	61
No. of Non-Serviceable Premises	0
Reason for Premises deemed Non-Serviceable	N/A

Design Details	
Survey Date:	28/11/2023
Proposal Status	Select Option.
Install Type:	Internal Cable Discreet & FTTH Cable Discreet around the ceiling line
Duration of works:	10.1 Days
Revision Date:	20/12/2023
Revision Details:	

Access Arrangements & Contact Details	
Onsite Contact:	Dawn (the cleaner) 0788 676 7089
Out of Hours Contact:	N/A
Main Client Contact:	Ester (Urban Bubble) 0161 236 3344
Any access arrangements required:	Keys and fobs collected off Dawn.
Is the development Staffed (Days/Times):	Ester is on site most days between 9am – 5pm.
Any access codes (If applicable):	All access from Dawn.

The Hyperoptic Installation

Scope of Works

This document outlines a proposal to provide 1Gb internet service to each individual premise within the site through installing a fibre infrastructure. Hyperoptic will deliver a fibre connection from our network directly to a central cabinet / enclosure within the development. If multiple enclosures are required, Hyperoptic will build a fibre optic cable backbone (spine) to support the network within the development.

Public Protection Within the Site

It has been noted that the site is an occupied development and as such the protection and the safety of the Public is paramount. It is the task of both the Site Manager/Supervisor and each Engineer working on the installation to ensure the safety of the Public. No works will commence until an assessment has been carried out and it is concluded that it will be safe to proceed. Working areas will be cordoned off with the use of signage and guarding. All materials and equipment should be kept within the safe work area and stored in a safe location to prevent unauthorised access.

Planning Supervision and Training

The Team Leaders will be briefed by the Project Manager and issued with a Risk Assessment and Method Statement.

Construction Site Safety – Installation of new cables

A site-specific method statement and risk assessment will be produced once the installation proposal has been approved.

The Client Field Representative and Contractor

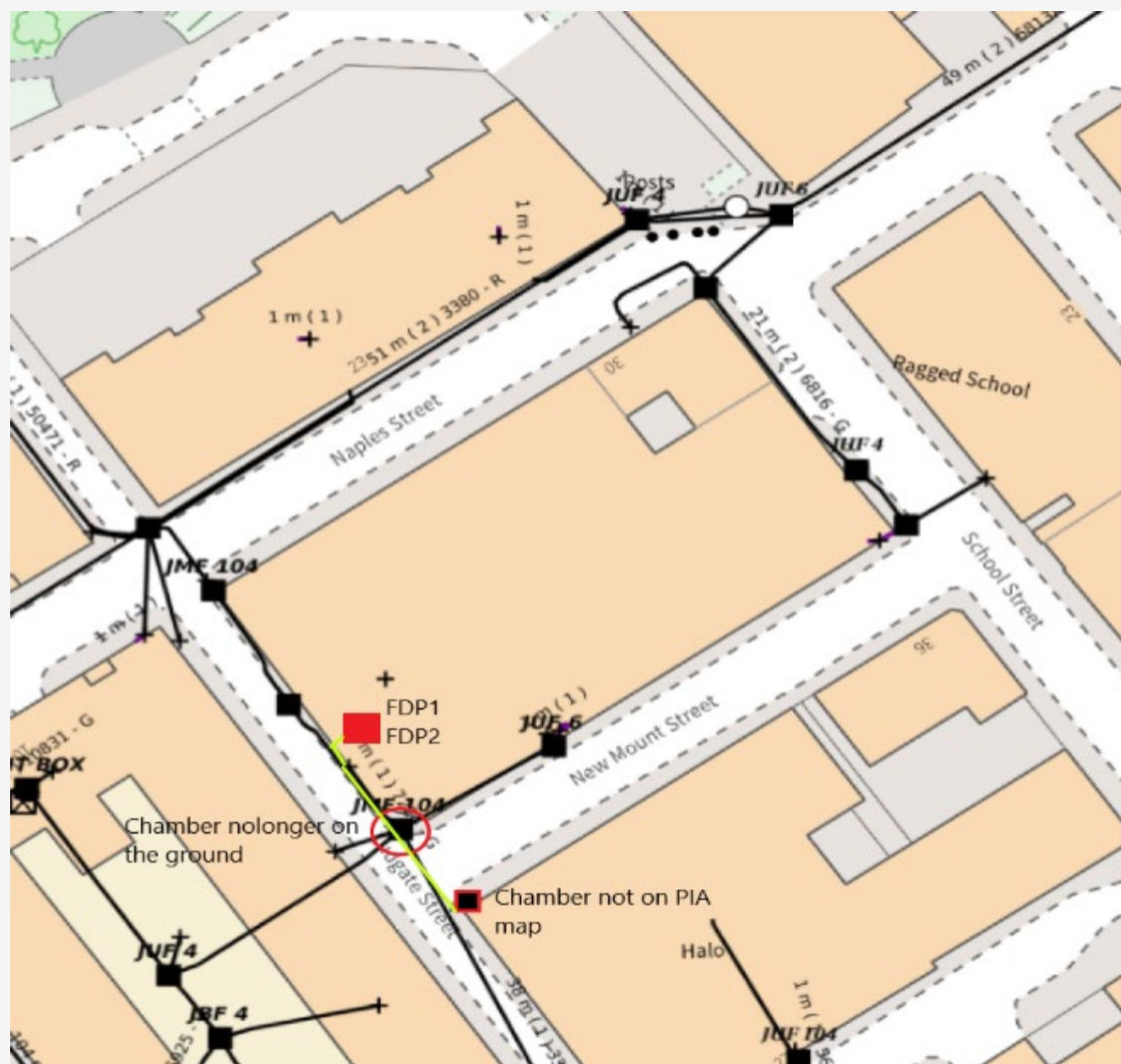
The Hyperoptic representative will liaise with the Contractors appointed supervisors to discuss any design, operational or Health and Safety Issues as appropriate. A Hyperoptic Area Deployment Manager (ADM) will be assigned to each building development. The ADM will be your single point of contact for any on-site and/or technical support you may require from the proposal stage, through installation and onto go-live. The installation activities can be arranged to accommodate your overall building development plans to enable efficient coordination/scheduling of Hyperoptic and other Sub-Contractors. The ADM will agree with you with a Schedule of Work prior to commencing any installation activities.

Cable Installation

Hyperoptic have different cable solutions that can be utilised within the installation of the Hyperoptic service. The Planner will survey, and determine the most effective solution, presenting it within this installation proposal. The data cabling will be installed from the Hyperoptic cabinets or enclosures to the individual units, utilising the existing building infrastructure. This will include the service utility risers, existing containment, ceiling voids and tray work. Cables will be left suitably positioned, so upon request a Customer can be connected to provide service to their premise. Cables will then be routed into the premise at the time of the Customer requesting service from Hyperoptic. All Hyperoptic installations are carried out according to industry best practice and strict adherence to cabling standards (TIA/EIA-568 and ISO/IEC 11801 and IEC 60794). All cabling once installed and terminated will be tested.

Site Specific Design

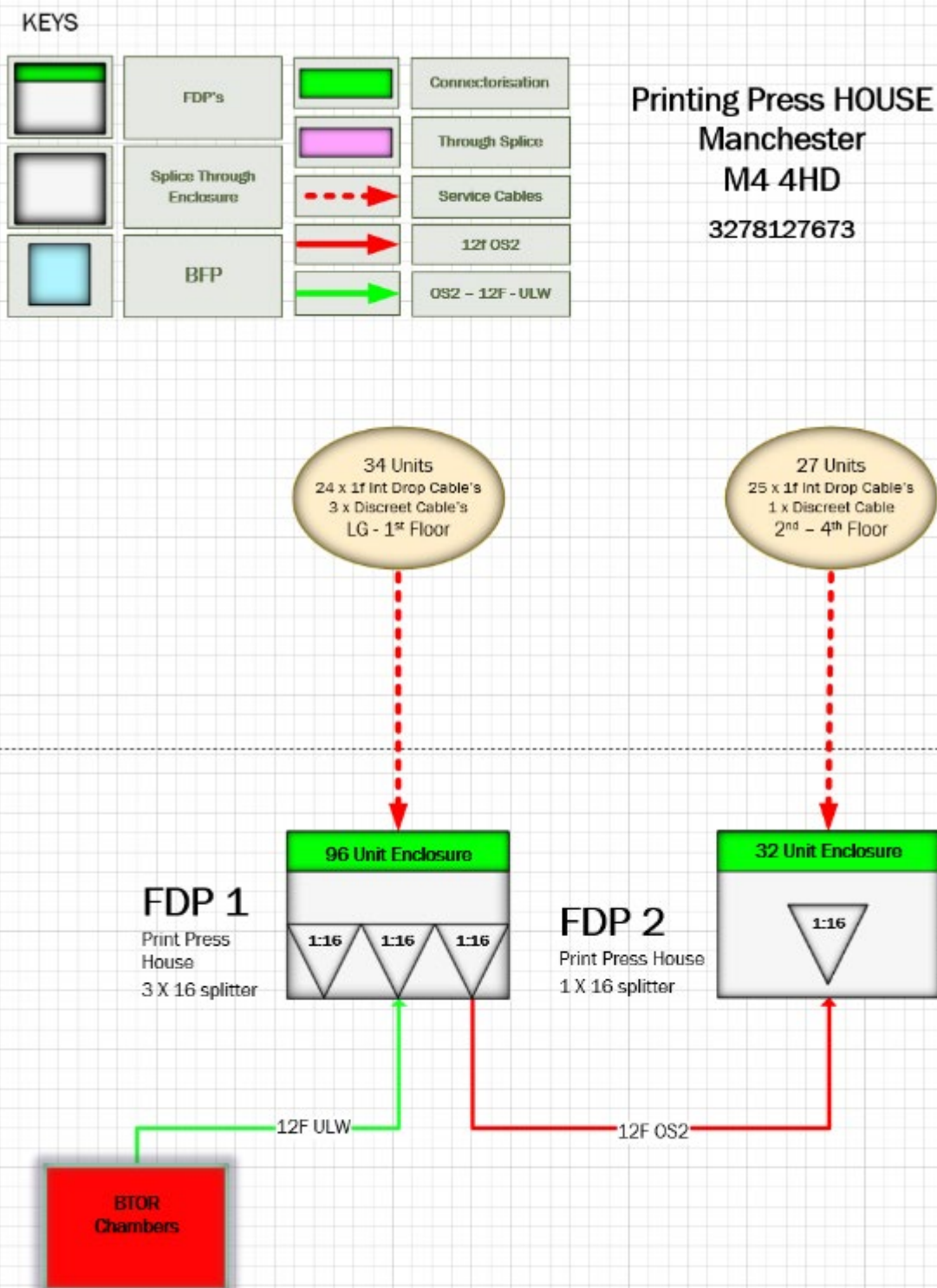
Site Plan



Important Keys:

	BT Chamber		Hyperoptic Spine
	DP-1a/FDP-1 Parent Cabinet		Customer Service Cable
	FDP		Discreet Service cable
	BFP		Civils Cable
	HyFi Backhaul		Electrical Cable

Topology Plan



Enclosure Location: FDP-1

Block 1: Printing Press House, 17 School Street, Manchester, M4 4HD.

Image 1



Lower Ground bin store door where FDP1 is located.

Image 2



FDP1 location.

Enclosure Location and Information

Enclosure location (FDP-1):	This enclosure will be installed on the brick wall of the lower ground bin store at Printing Press House, 17 School Street, Manchester, M4 4HD.
Calculated proposed enclosure size:	72-Unit Enclosure - 360mm(W) x 175mm(D) x 550mm(H)
Where the enclosure will be fixed to:	Brick Wall

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

Service Cable Route: From FDP-1

Image 1



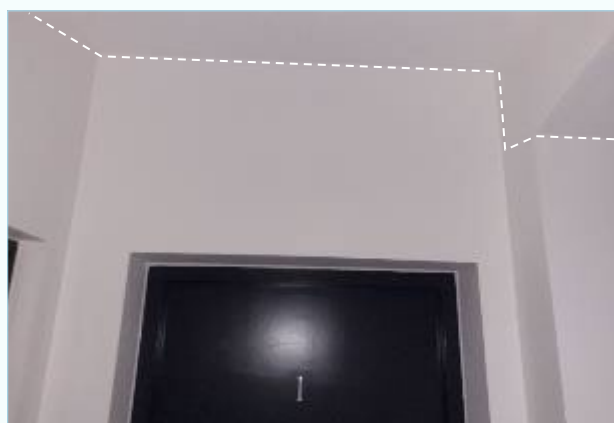
1F internal cables traveling up through the ceiling to the ground and first floors and the discreet cables traveling on the existing cable tray towards the lower ground corridor.

Image 2



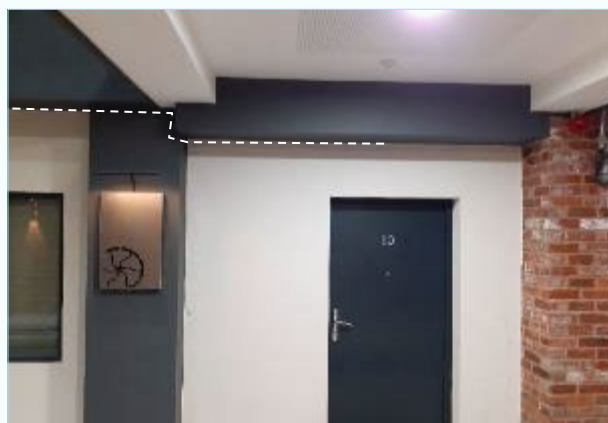
On entering the lower ground corridor a discreet cable will travel down each side passing each apartment.

Image 3



The discreet cable traveling through the alcove's.

Image 4



The discreet cable traveling down the other side of the corridor passing each apartment.

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

Service Cable Route: From FDP-1

Image 1



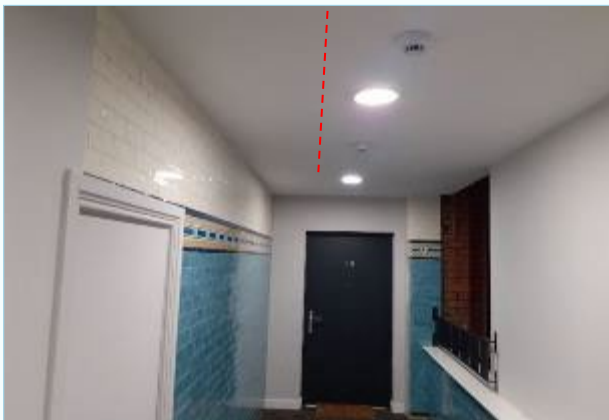
If internal cables traveling up to the ground and first floors.

Image 2



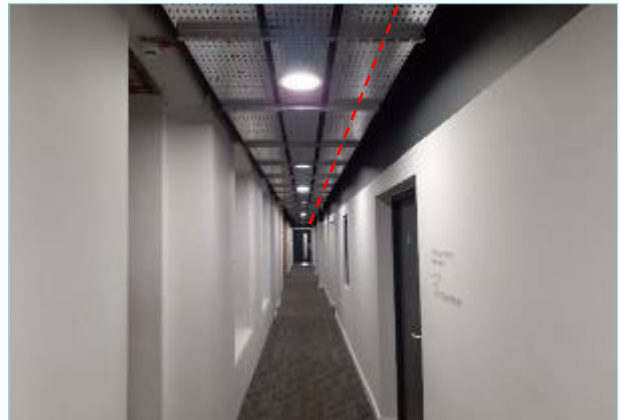
Cables exiting the dedicated cable riser on the existing cable tray.

Image 3



Apartment 19 will require the installation of two fire rated inspection hatches to aid installation.

Image 4

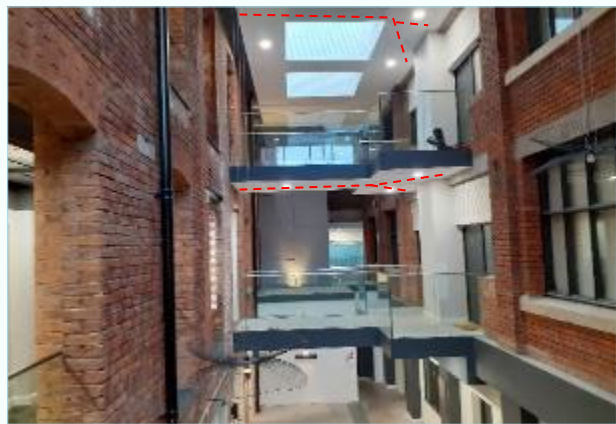


Cable traveling passed each apartment on the dedicated cable tray.

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

Service Cable Route: From FDP-1 (Ground and first floors atriums)

Image 1



Cables crossing each atrium to the apartments.

Image 2



These apartments will require the installation of two hour fire rated metal inspection hatches and the use of a small internal scissor lift.

Image 3



Cable route within the ceiling void.

Image 4



The cable will be left neatly coiled in the ceiling void awaiting the clients take up.

Apartments per floor Allocated to: FDP-1

Block 1: Printing Press House, 17 School Manchester, M4 4HD

Floor Level	No. of Apt/Unit	Apartment/Unit Numbers	Service Hatch	Enclosure
Lower ground	10	1,2,3,4,5,6,7,8,9,10	0	FDP-1
Ground	12	11,12,13,14,15,16,17,18,19,20,21,22	6	FDP-1
1 st Floor	12	23,24,25,26,27,28,29,30,31,32,33,34	6	FDP-1
-	-	-	-	-
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Total	34		12	

Connectivity to Enclosure: FDP-1

Image 1



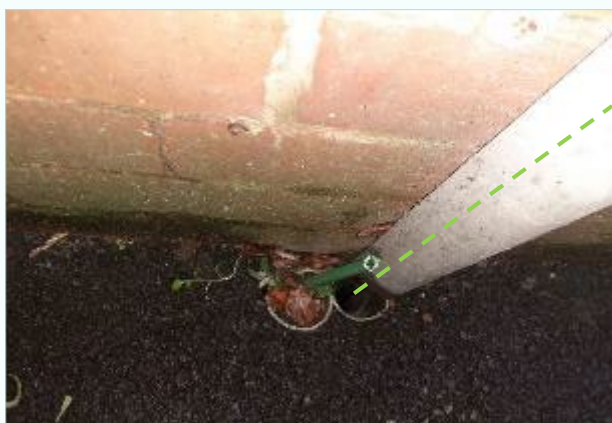
BTOR Chamber located on New Mount Street (this is not on the PIA map).

Image 2



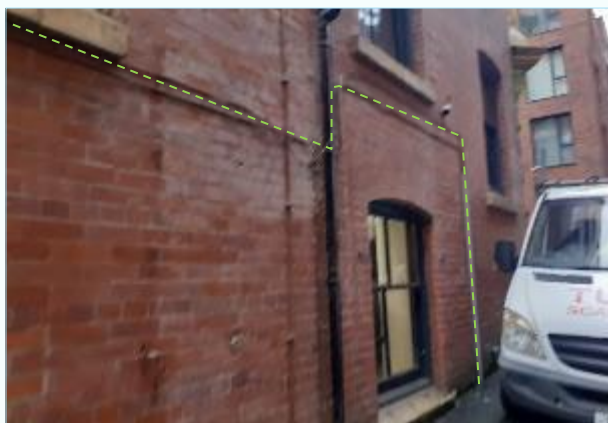
The ULW cable traveling through the duct down Lidgate Street

Image 3



The ULW cable exiting the duct and traveling up the wall protected by the galvanized capping.

Image 4



The ULW cable following the existing cables towards the lower ground bin store room.

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

Connectivity to Enclosure: FDP-1

Image 1



ULW cable entering the lower ground bin store room and traveling straight down the wall.

Image 2

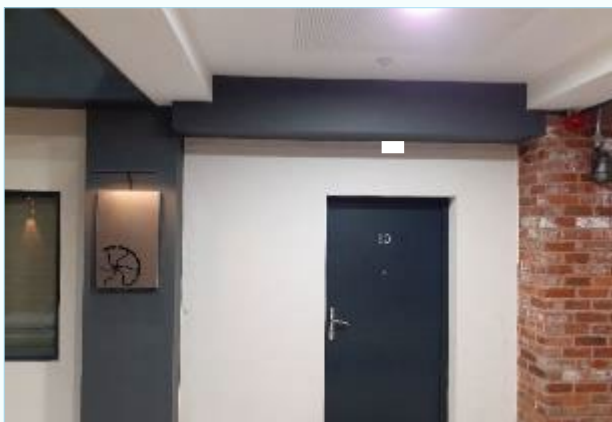


Terminating at FDP1.

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

Customer Connection: FDP-1 Serviced Units

Image 1



Lower ground POE positioned above each apartment door.

Image 2



Cables will be left coiled on the dedicated cable tray outside each apartment awaiting client take up.

Additional Notes:

All fire stopping on site is done by Complete wall solutions (no address or phone number present on installation tags)
A small scissor lift will be required for the apartments on the atriums.
If internal cables to be left neatly coiled on the tray.
PIA map incorrect external chambers will need investigating by a rod and rope team.

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

Enclosure Location: FDP-2

Block 1: Printing Press House, 17 School Street, Manchester, M4 4HD.

Image 1



Door to the third floor dedicated cable riser.

Image 2



FDP2 location.

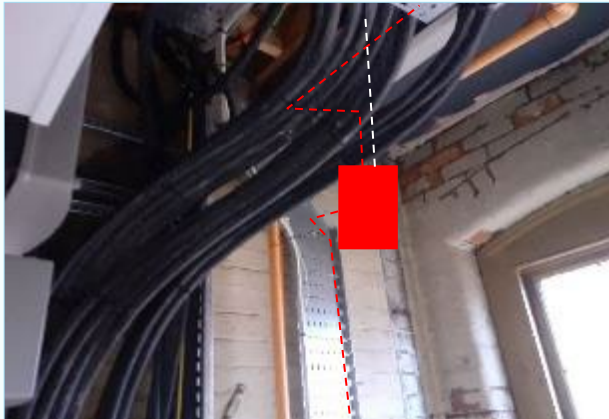
Enclosure Location and Information

Enclosure location (FDP-2):	This enclosure will be installed on the brick wall of the third floor cable riser at Printing Press House, 17 School Street, Manchester, M4 4HD.
Calculated proposed enclosure size:	32-Unit Enclosure - 275mm(W) x 114mm(D) x 368mm(H)
Where the enclosure will be fixed to:	Brick Wall

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

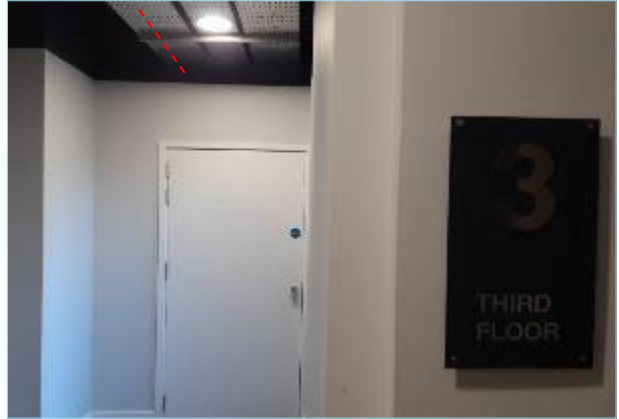
Service Cable Route: From FDP-2

Image 1



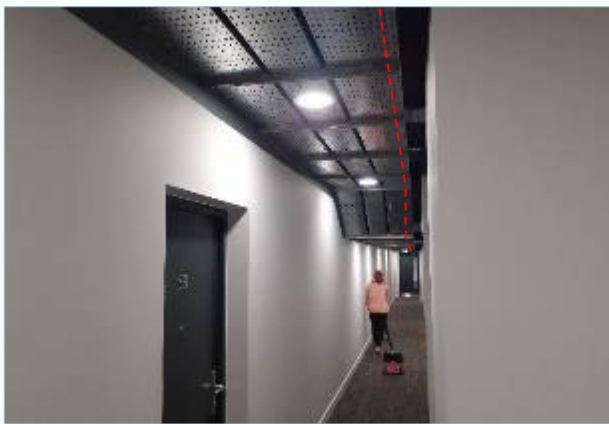
Discreet cable traveling up through the ceiling following the existing cables with the 1f traveling down to the second and following the dedicated cable tray out to the third floor corridor.

Image 2



1f cables exiting the cable riser on the existing cable tray.

Image 3



1f cables traveling down the corridor on the existing cable tray.

Image 4



1f cables passing above the fire door on the existing cable tray.

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

Service Cable Route: From FDP-1

Image 1



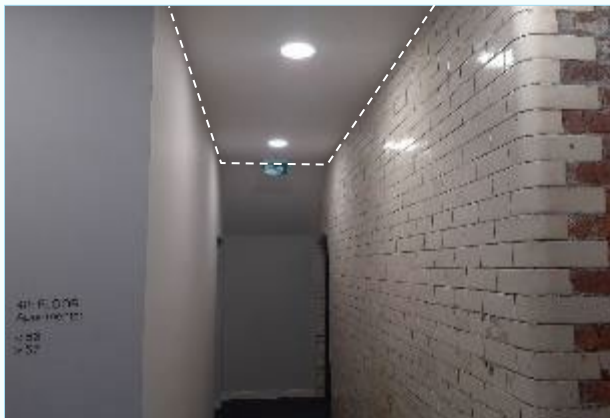
Discreet cable traveling through the fourth floor riser concrete floor.

Image 2



Discreet cable exiting the cable riser.

Image 3



Discreet cable traveling around the fourth floor corridor.

Image 4



Cable route to apartment 56.

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

Apartments per floor Allocated to: FDP-2

Block 1: Block Name, Printing Press House, 17 School Manchester, M4 4HD

Floor Level	No. of Apt/Unit	Apartment/Unit Numbers	Service Hatch	Enclosure
2 nd Floor	13	35,36,37,38,39,40,41,42,43,44,45,46,,48	0	FDP-2
3 rd Floor	12	47,49,50,51,52,53,54.55,58,59,60,61	0	FDP-2
4 th Floor	2	56,57	0	FDP-2
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
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Total	27		0	

Connectivity to Enclosure: FDP-2

Image 1



An OS2 link cable will leave FDP1 and travel straight up the wall passing through the ceiling into the cable riser.

Image 2



Cable passing from the lower ground to the ground floor cable riser.

Image 3



Typical riser ceiling.

Image 4



Terminating at FDP2.

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

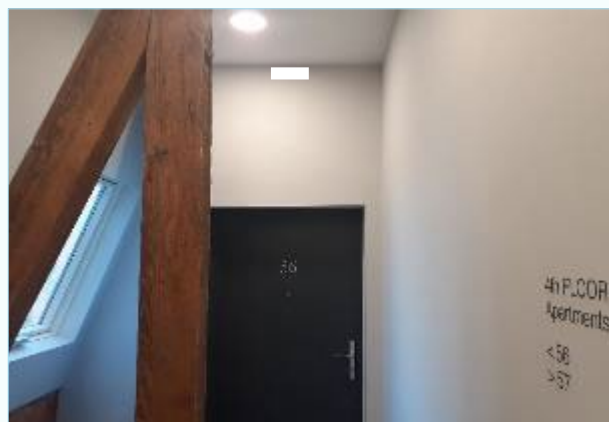
Customer Connection: FDP-2 Serviced Units

Image 1



Cables will be left coiled on the dedicated cable tray outside each apartment awaiting client take up.

Image 2



Fourth floor POE positioned above both apartment doors.

Additional Notes:

All fire stopping on site is done by Complete wall solutions (no address or phone number present on installation tags)
1f internal cables to be left neatly coiled on the tray.

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

Fire Stopping (Found at the site)

Image 1



Typical riser ceiling, all fire stopping on site is done by Complete wall solutions (no address or phone number present on installation tags)

Image 2



Typical riser floor, all fire stopping on site is done by Complete wall solutions (no address or phone number present on installation tags)

Image 3



Cable tray exiting the riser appears to not be sealed

Image 4



All fire stopping on site is done by Complete wall solutions (no address or phone number present on installation tags)

For Risk Mitigation please see CDM Design Risk Summary Sheet – Sections A,B & C

hyperoptic

Hyperoptic Cabinets & Enclosures

Details and Measurements of Cabinets & Enclosures

Following the Hyperoptic DSS survey, the most suitable type and location of Cabinet/Enclosures, for the installation will be identified. These Cabinet/Enclosures house all cabling, terminations and Hyperoptic switches required to provide service to the allocated units. A range of Cabinet/Enclosure sizes are available, as well as bespoke solutions if required. Typical enclosure sizes are listed below:



Internal Cabinet



External Cabinet



BFP internal/External Enclosure



External Enclosure - GPON-MDU-96ENC



Internal/External Enclosure - GPON-BRACKET-32UNIT



Internal/External Enclosure - GPON-MDU-96ENC

Size	Width	Depth	Height
Standard Wall Mount Cabinets			
15U	600 mm (int), 720 mm (ext)	550 mm (int), 550 mm (ext)	770 mm
18U	600 mm (int), 720 mm (ext)	550 mm (int), 550 mm (ext)	905 mm
21U	600 mm (int), 720 mm (ext)	550 mm (int), 550 mm (ext)	1040 mm

Enclosures			
Dist. Enc	245 mm	130 mm	395mm
8-unit Enc	186 mm	40 mm	114 mm
32-unit Enc	275 mm	114 mm	368 mm
72-unit Enc	360 mm	175 mm	550 mm
96-unit Enc	376 mm	182 mm	500 mm

CDM – Design Hazard / Risk Management

CDM – Design Risk Summary Sheet detailing the potential hazards and risks identified during the detailed site survey for the above site is kept on the Hyperoptic Infinity System.
Mitigations must be considered during installation.

Arrangements for how work will be carried out safely and without hazards to health shall be prepared before work begins. This applies to all work regardless of size, duration or, whether the job is notifiable (as defined by CDM Regulations).

NOTE:

Those residual risks that are not likely to be obvious to a competent Contractor, which are difficult to manage, or unusual, must be:

1. Communicated to the Project Team,
2. Where there is more than one Contractor working on a project, Design Risk Summary Sheet must be,
3. Sent to the Principal Designer for assessment and inclusion in the Pre-Construction Information, and
4. Sent to the Principal Contractor for consideration and inclusion in the Construction Phase Plan.

Main Health & Safety Hazards / Risks in Construction / Hyperoptic Works

- Work at Height
- Moving Vehicles & Plant
- Slips, Trips & Falls
- Noise
- Hand Arm Vibration Syndrome
- Lifting Operations & Materials Movement
- Manual Handling
- Fire Management & Fire Compartmentation Integrity

- Asbestos
- Airborne Fibres & Materials – respiratory diseases
- Electricity
- Underground & Overhead Services
- Confined Spaces
- Excavations
- Collapse – Structures & Scaffolds
- Protecting the Public

Appendix 1: Health and Safety, Policy Procedure: Planning Process

Appendix 2: Fire stopping Policy

Appendix 3: Electrical Compliance