



JDW WLAN and Cabinet Report V1.5

The Manor House / 6849 / Mark Woodley /
29/11/2024

JDW SITE DETAILS

Photo of Entrance of the building



Photo 1

Site number	6849
Site Name	The Manor House
Address	14 Melbourn Street Royston Hertfordshire SG8 7BZ
Time & Date of Survey	29/11/2024 18:00 GMT
Survey Engineer	Mark Woodley

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1 - Important Information

Site Type

Pub

Is this building listed?

Yes

Grade 1 or 2

2

Checked Historic England website

Parking Available Onsite?

Yes

There is a car park behind the pub, it does not belong to the pub, but the pub has an arrangement with the owner so they can authorise parking for contractors, if arranged in advance.



Photo 2

Is storage available for kit and equipment

Yes

Plant/Storeroom



Photo 3

Enter details of the sites VDAS areas?

Main Bar

Enter details of the onsite seasonal areas?

Front Pavement and Rear Car Park
Area

Enter details of onsite heavy trading areas?

Bar and Kitchen

Does the site have staff accommodation?

No

2 - Area Details

Note: Garden areas are identified in GREEN. Standard areas are identified in GREY. VDA are identified in RED.

	New cable route not needing containment. Runs above false ceiling
	New cable using external cable
	New cable route using existing containment
	New cable route using new containment
	Location of riser
	MDF
	IDF
	New ceiling hatch required
	Location where drilling is required
	Fortinet Device location
	Existing phone Lines

Site Floor Plans

Areas for 00 CELLAR

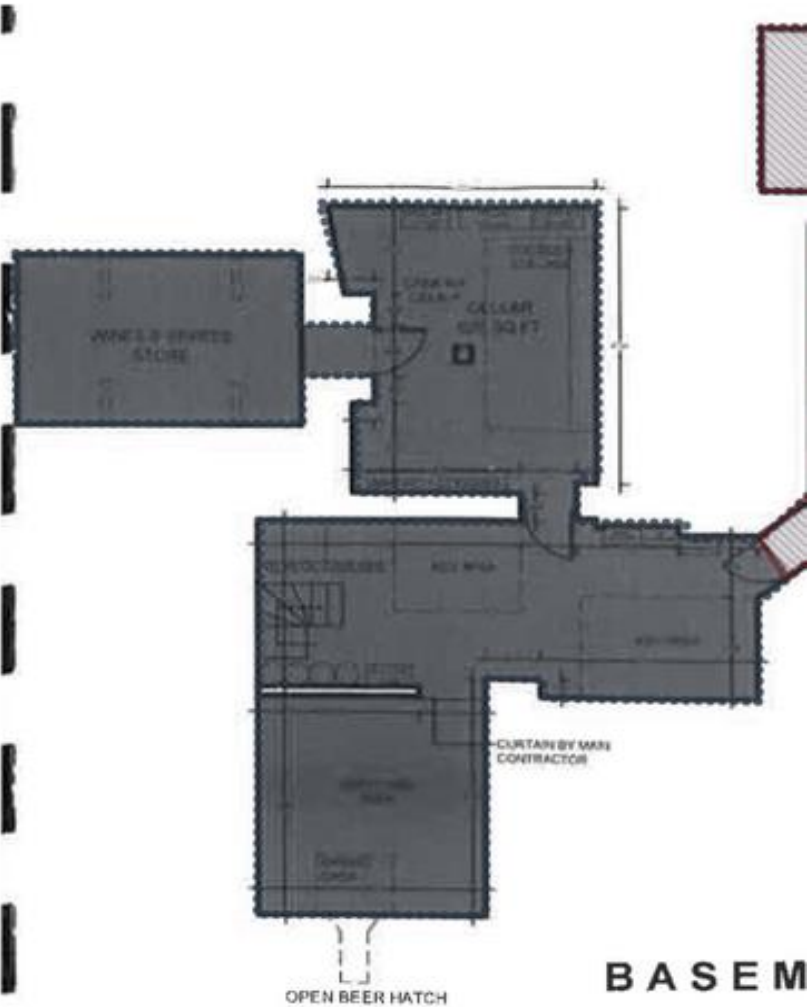


Photo 4

2.2 - Ground Floor

Site Floor Plans

Areas for 01 GROUND

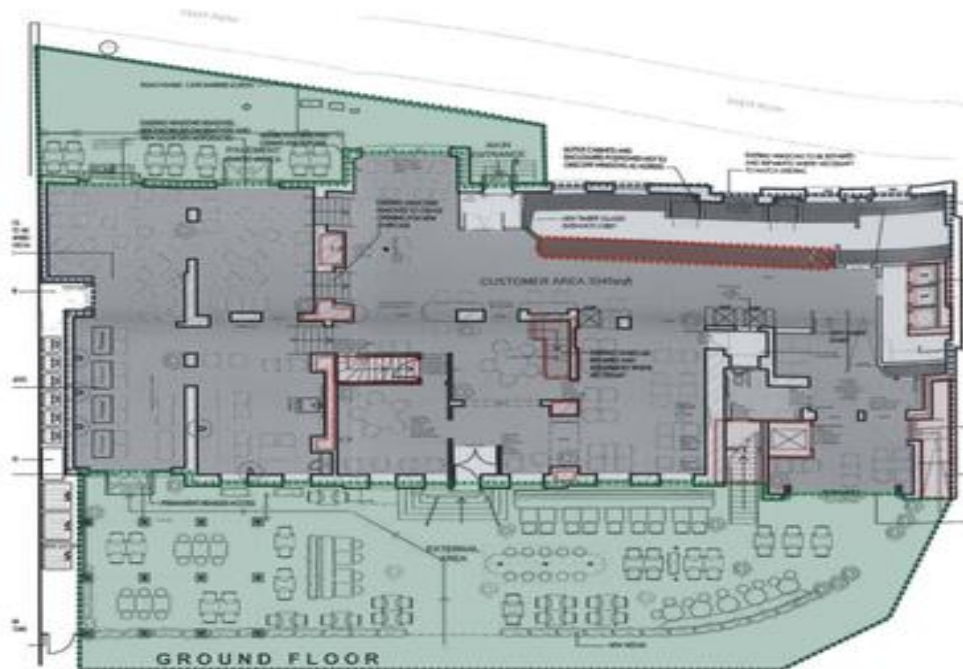


Photo 5

2.3 - First Floor

Site Floor Plans

Areas for 02 FIRST

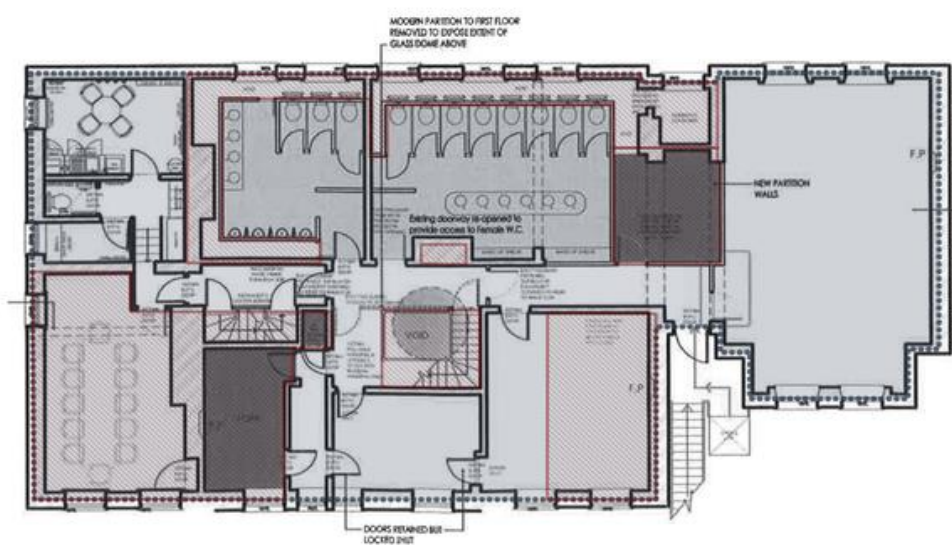


Photo 6

3 - WAP Location Details

Note: RED circles represent ADDITIONAL WAPs. BLUE circles represent EXISTING WAPs. VIOLET circles represent EXISTING WAPs which require relocating to positions marked by YELLOW circles. GREY circles represent EXISTING WAPs to be removed. PINK circles represent NEW 4G FORTINET Devices.

3.1 - Basement

Marked Up Area Map

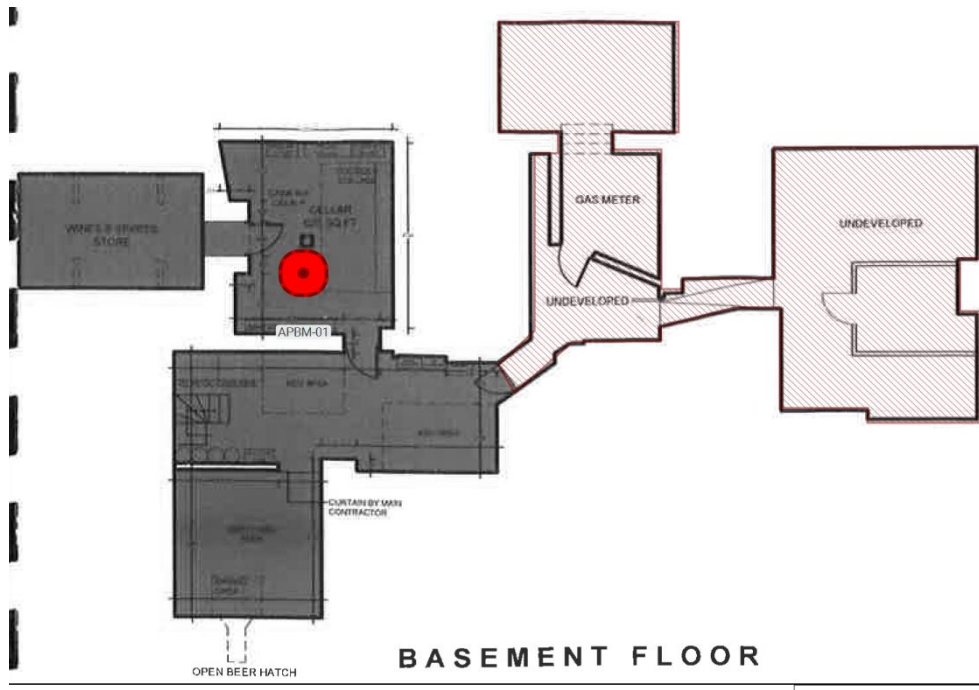


Photo 7

3.2 - Ground Floor

Marked Up Area Map

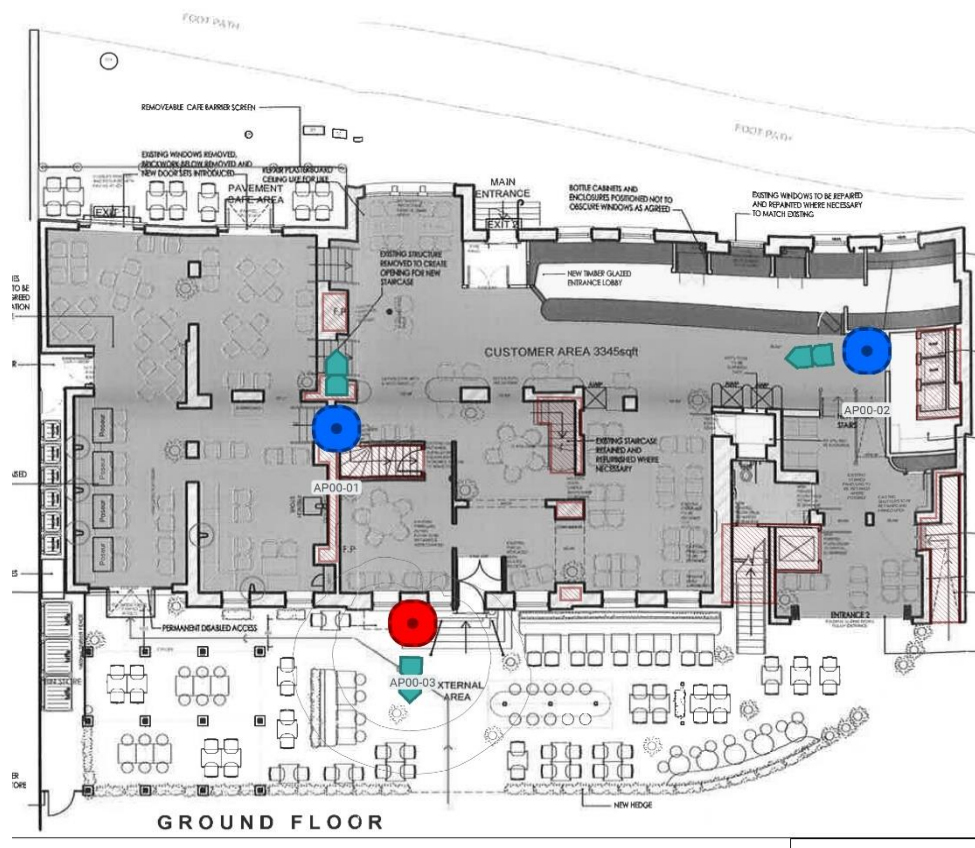


Photo 8

3.3 - First Floor

Marked Up Area Map

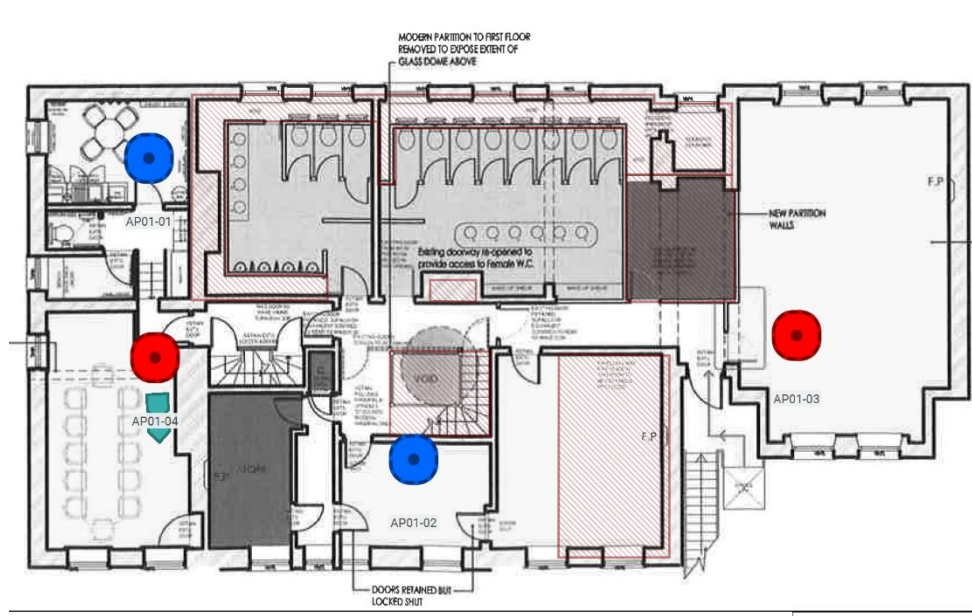


Photo 9

4 - Wide-Angle Images of Site

Note: Use this section to record multiple wide-angle images of the site (Turn phone sideways), Images to include: - Front of house, Bar areas, Back of house, Garden Areas, and additional floors and areas.



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19

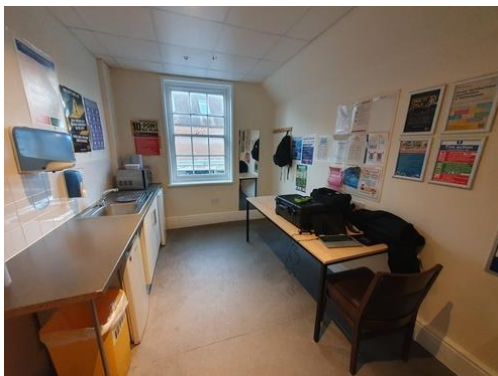


Photo 20



Photo 21



Photo 22

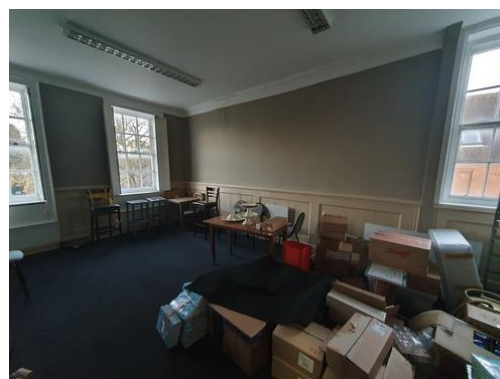


Photo 23



Photo 24



Photo 25

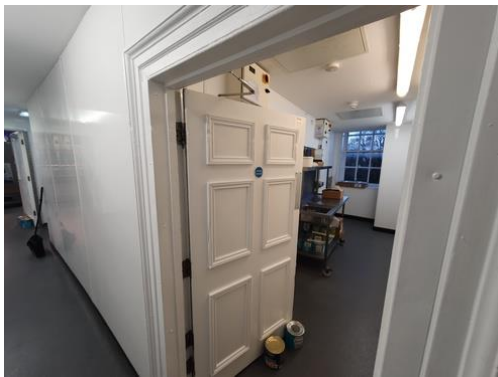


Photo 26



Photo 27



Photo 28



Photo 29



Photo 30

5 - WAP Areas

Use this section to advise which WAPs are to be deployed in each of the below locations. NEW and EXISTING.

Cellar	APBM-01
Kitchen	AP01-03
General Pub Areas	AP00-01, AP00-02
Meeting Room	AP01-04
Office	AP01-02
Staff Rm	AP01-01
Outdoor Areas	AP00-03

6 - WAP Details

NOTE: Existing WAPs should be replaced with a new FORTI FAP-231F or Forti FAP-234F if External. Do not place new APs in toilets

6.1 - APBM-01

WAP No.	APBM-01
Floor	Basement
Location of WAP	Cellar
Mounting Height	2 m
Type of Mount	Solid Ceiling
Make & Model of Existing WAP	N/A
Make & Model of New WAP	FortiAP FAP-231F
New/Existing/Moved	New

Photo of NEW location

AP 00-01 Location Image



Photo 31

Floorplan Identifying this WAP

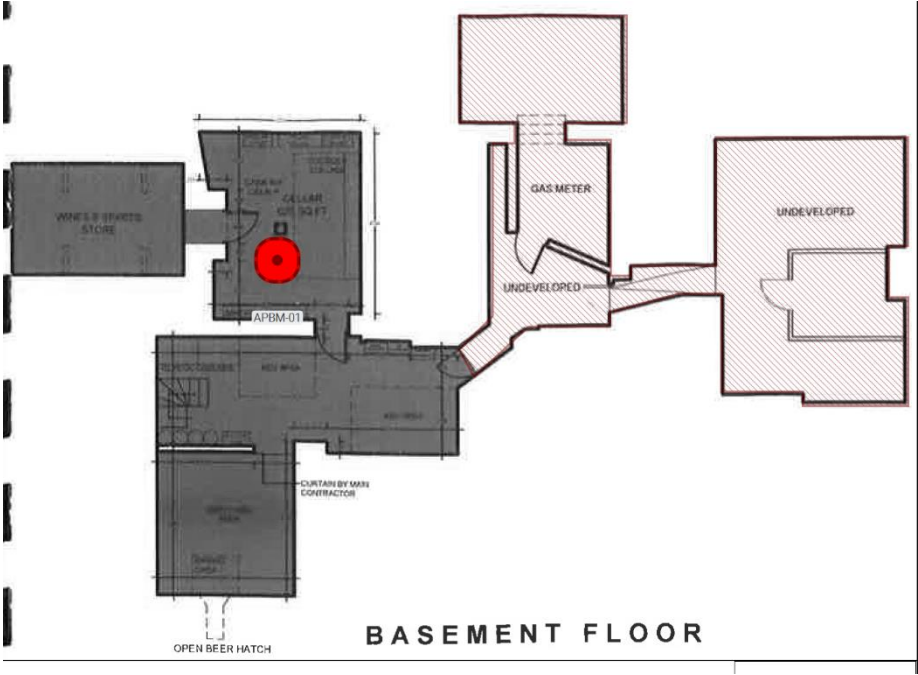


Photo 32

6.2 - AP00-01

WAP No.	AP00-01
Floor	Ground
Location of WAP	General Pub Area
Mounting Height	3 m
Type of Mount	Solid Ceiling
Make & Model of Existing WAP	Ruckus R310
Make & Model of New WAP	FortiAP FAP-231F
New/Existing/Moved	Existing

Photo of EXISTING and NEW locations



Photo 37

Floorplan Identifying this WAP.

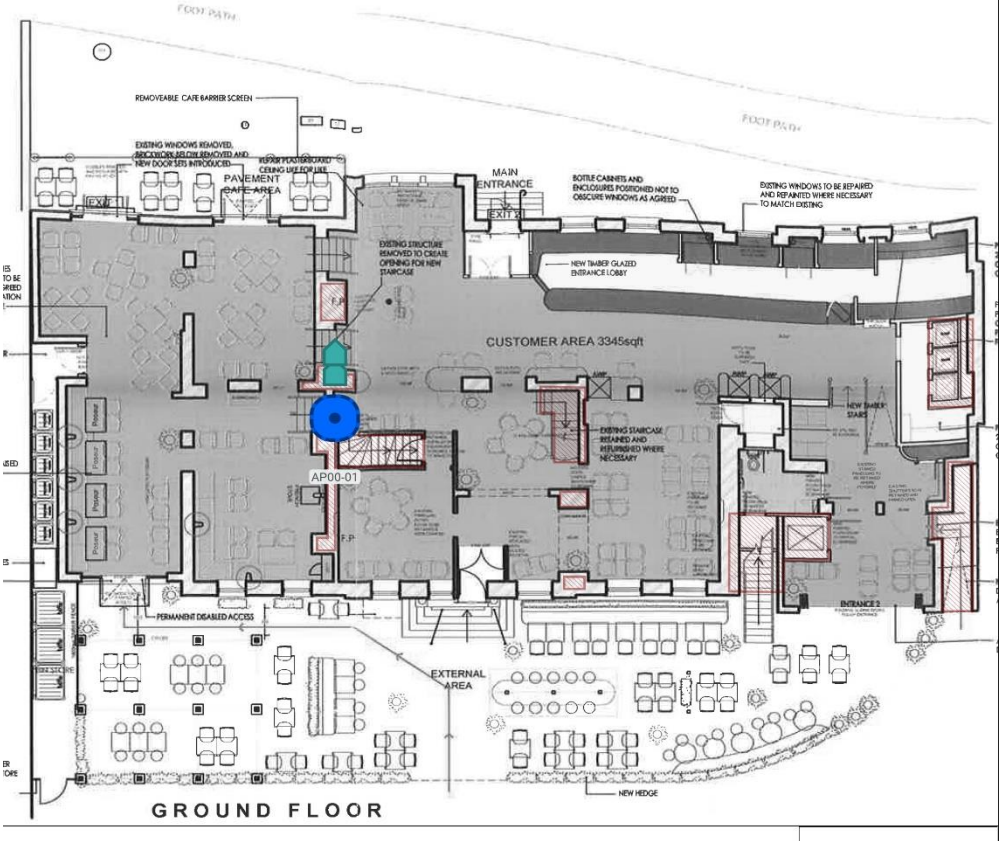


Photo 39

6.3 - AP00-02

WAP No.	AP00-02
Floor	Ground
Location of WAP	General Pub Area
Mounting Height	4 m
Type of Mount	Solid Ceiling
Make & Model of Existing WAP	Ruckus R310
Make & Model of New WAP	FortiAP FAP-231F
New/Existing/Moved	Existing

Photo of EXISTING and NEW locations

Photo 41

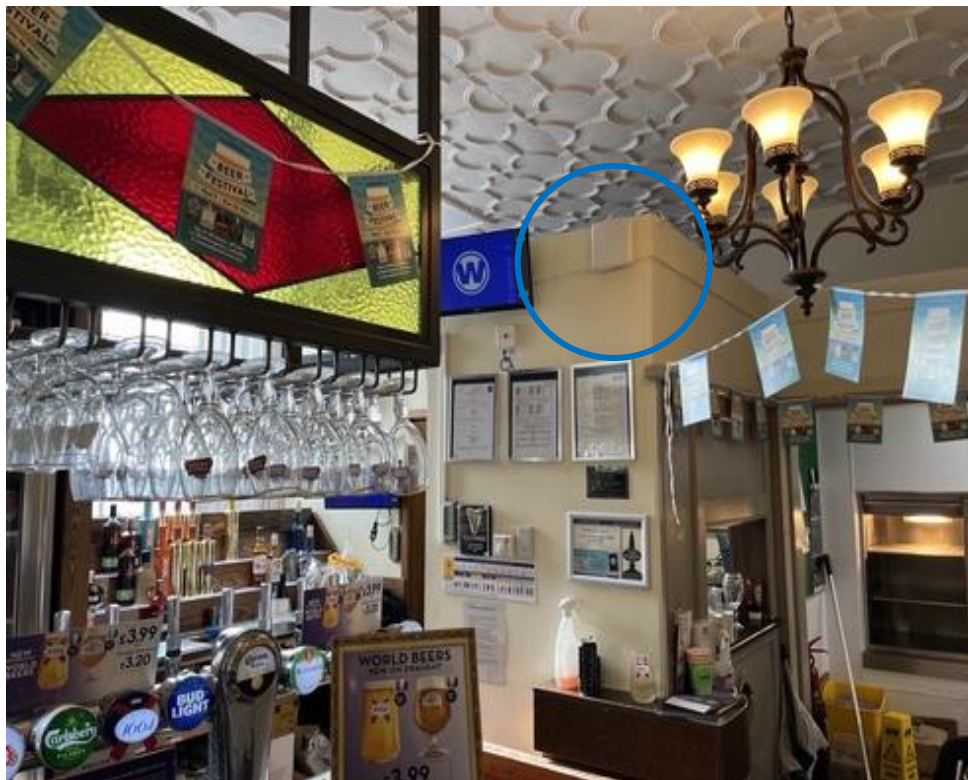


Photo 3

Floorplan Identifying this WAP.

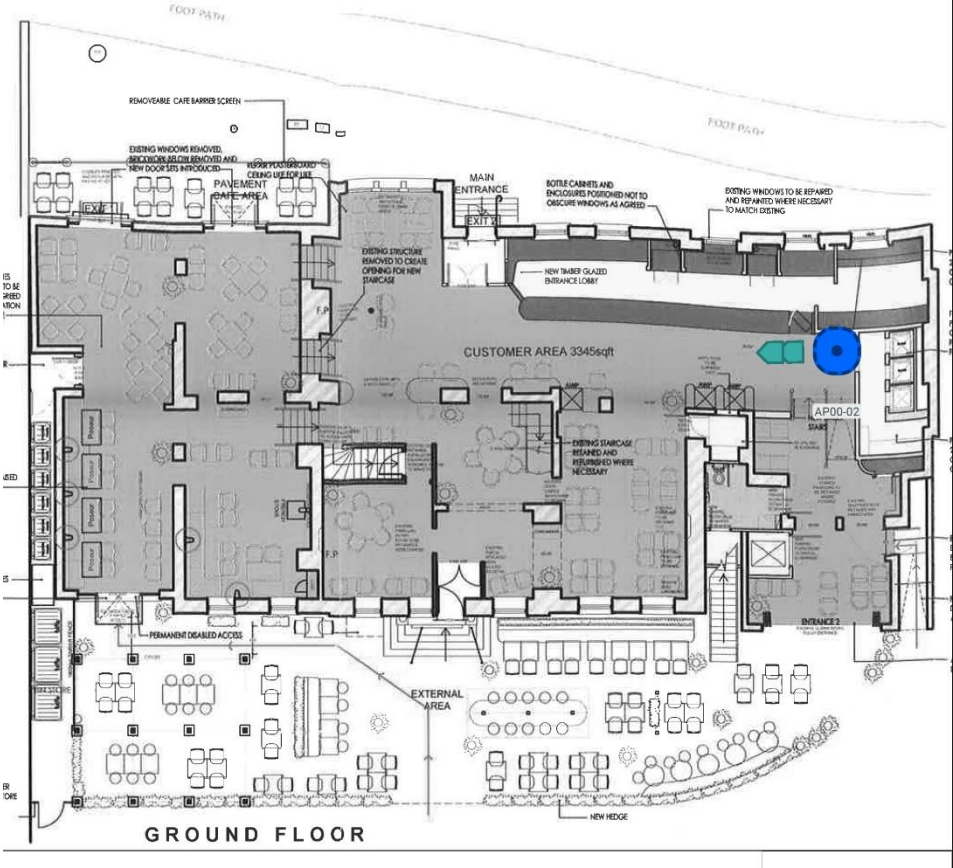


Photo 43

6.4 - AP00-03

WAP No. AP00-03

Floor Ground

Location of WAP External Rear Seating Area

Mounting Height 3.5 m

Type of Mount Wall

Make & Model of Existing WAP N/A

Make & Model of New WAP FortiAP FAP 234F External

New/Existing/Moved New

Photo of NEW location

Photo 47



Photo 5

Floorplan Identifying this WAP.

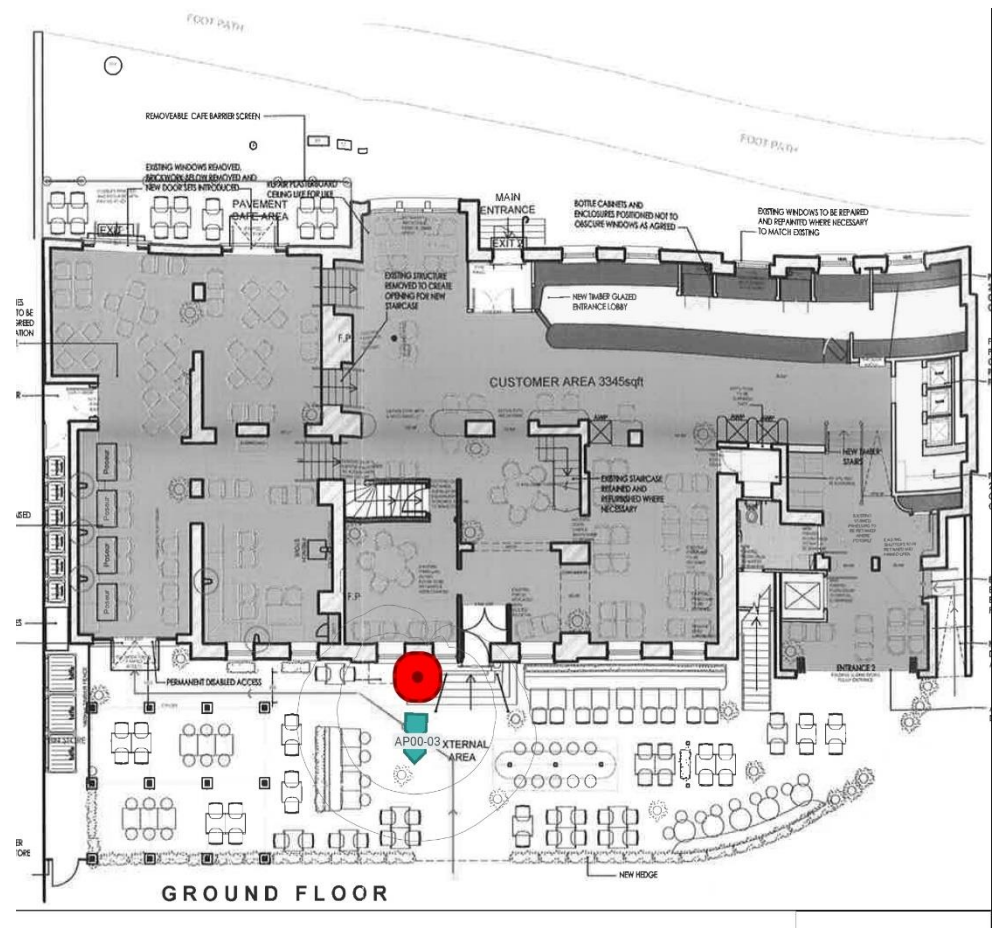


Photo 48

6.5 - AP01-01

WAP No.

AP01-01

Floor

First

Location of WAP

Staff Room

Mounting Height

2.4 m

Type of Mount

Suspended Ceiling

Make & Model of Existing WAP

N/A

AP is hidden, suspect an R310

Make & Model of New WAP

FortiAP FAP-231F

New/Existing/Moved

Existing

Photo of EXISTING and NEW locations

Photo 49



Photo 23

Floorplan Identifying this WAP.

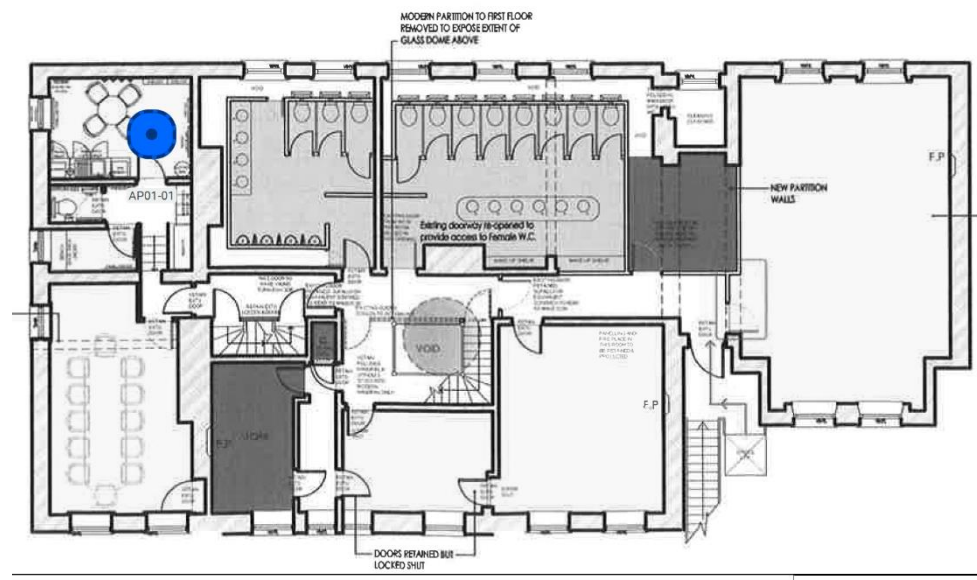


Photo 51

6.6 - AP01-02	
WAP No.	AP01-02
Floor	First
Location of WAP	Office
Mounting Height	2.4 m
Type of Mount	Suspended Ceiling
Make & Model of Existing WAP	Ruckus R310
Make & Model of New WAP	FortiAP FAP-231F
New/Existing/Moved	Move

Photo of EXISTING and NEW locations

AP 02-02E Location Image

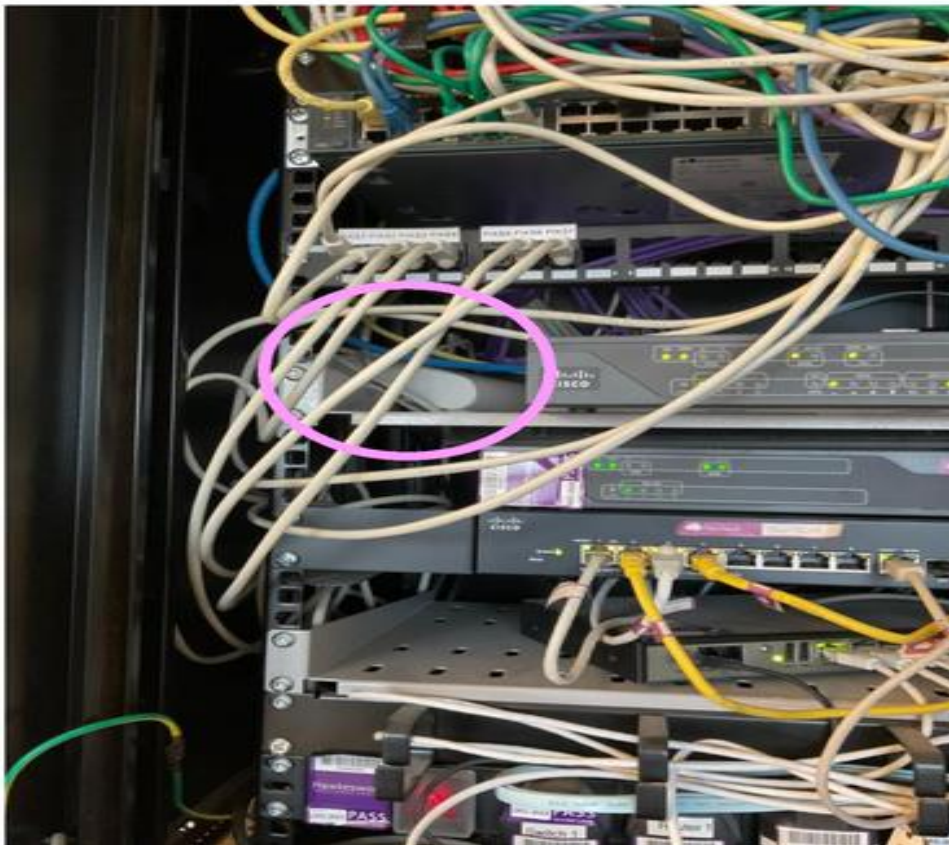


Photo 53

AP 02-02 Location Image



Photo 54

Floorplan Identifying this WAP

AP 02-02E Location Map

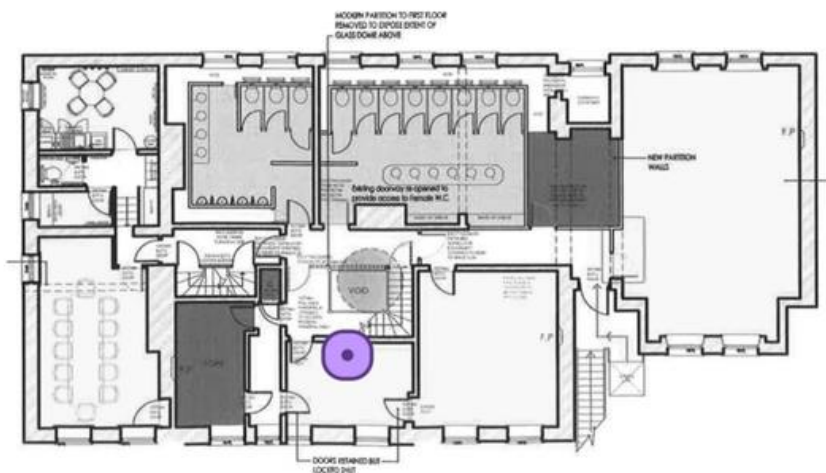


Photo 55

AP 02-02 Location Map

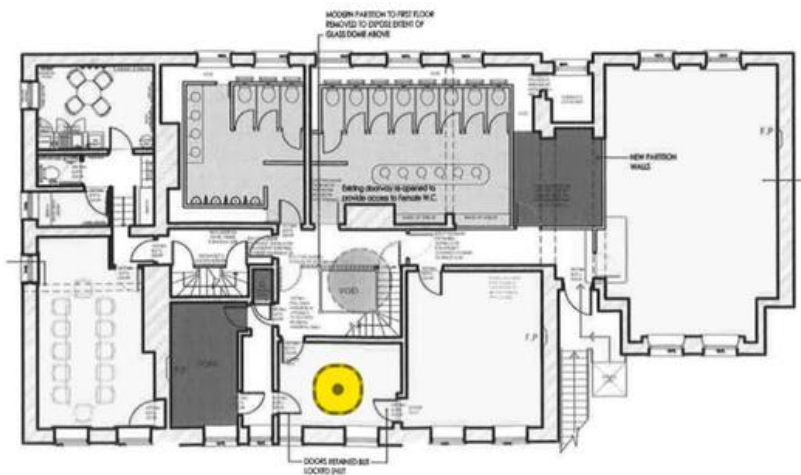


Photo 56

6.7 - AP01-03

WAP No.	AP01-03
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Floor	First
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Location of WAP	Kitchen
-----------------	---------

Mounting Height	2.4 m
-----------------	-------

Type of Mount	Suspended Ceiling
---------------	-------------------

Make & Model of Existing WAP	N/A
------------------------------	-----

Make & Model of New WAP	FortiAP FAP-231F
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New/Existing/Moved	New
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Photo of NEW location

AP 02-04 Location Image



Photo 59

Floorplan Identifying this WAP.

AP 02-04 Location Map

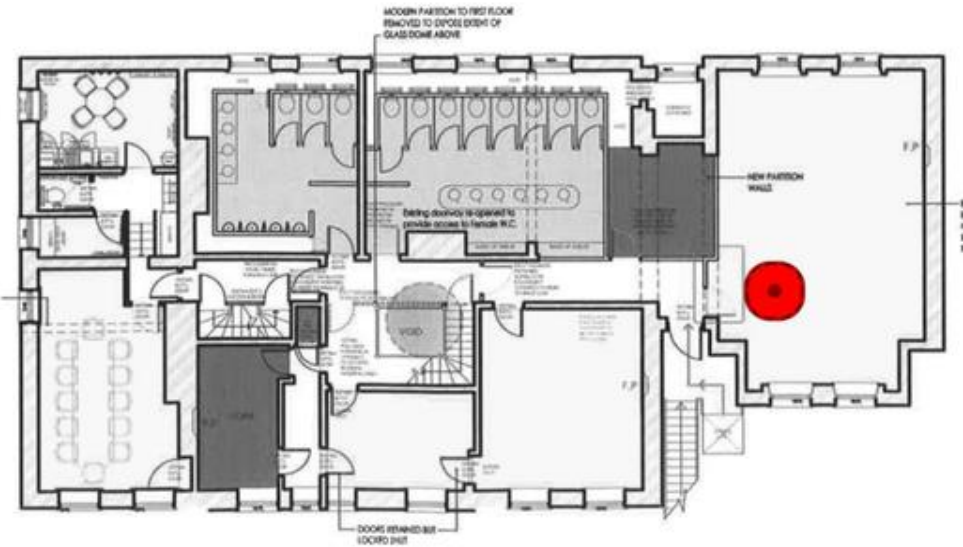


Photo 60

6.8 - AP01-04

WAP No. AP01-04

Floor First

Location of WAP Kitchen

Mounting Height 2.5 m

Type of Mount Solid Wall

Make & Model of Existing WAP N/A

Make & Model of New WAP FortiAP FAP-231F

New/Existing/Moved New

Photo of NEW location



Photo 61

Floorplan Identifying this WAP.

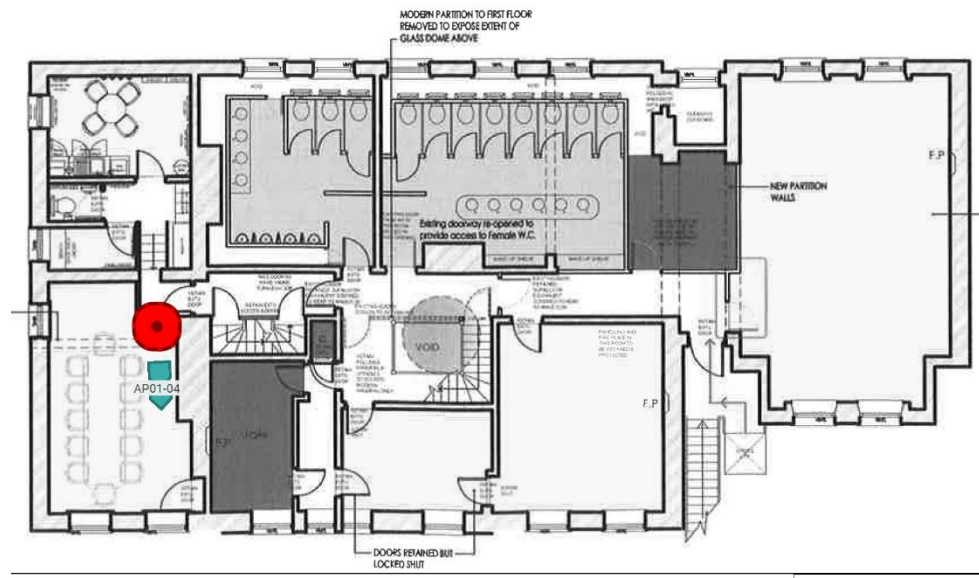


Photo 62

Total Number of New and Existing AP's

8

7 - Cable Survey

7.1 - Red Line Drawings

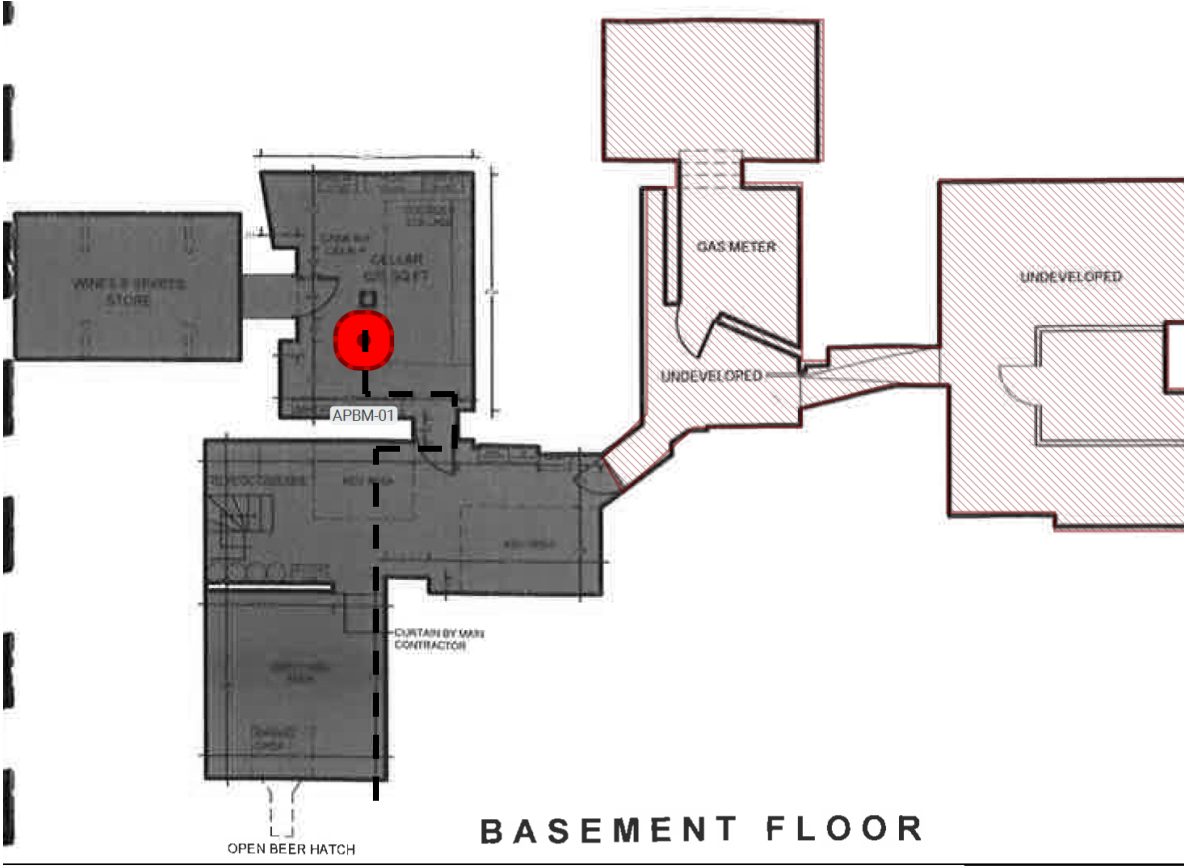
Insert red line drawing floorplans clearly showing cable routes, and WAPs. Add any new hatches marked up with SOLID ORANGE squares. Use the key below to show requirements on floor plans (floor plans to be scanned in/attachment)

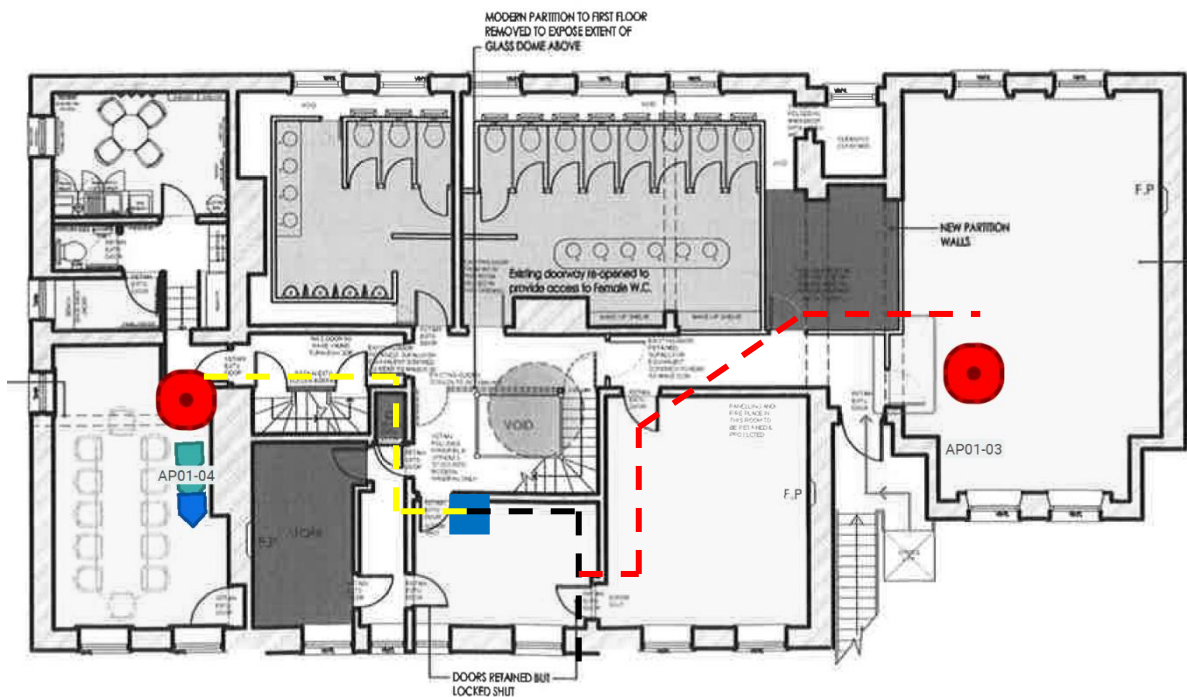
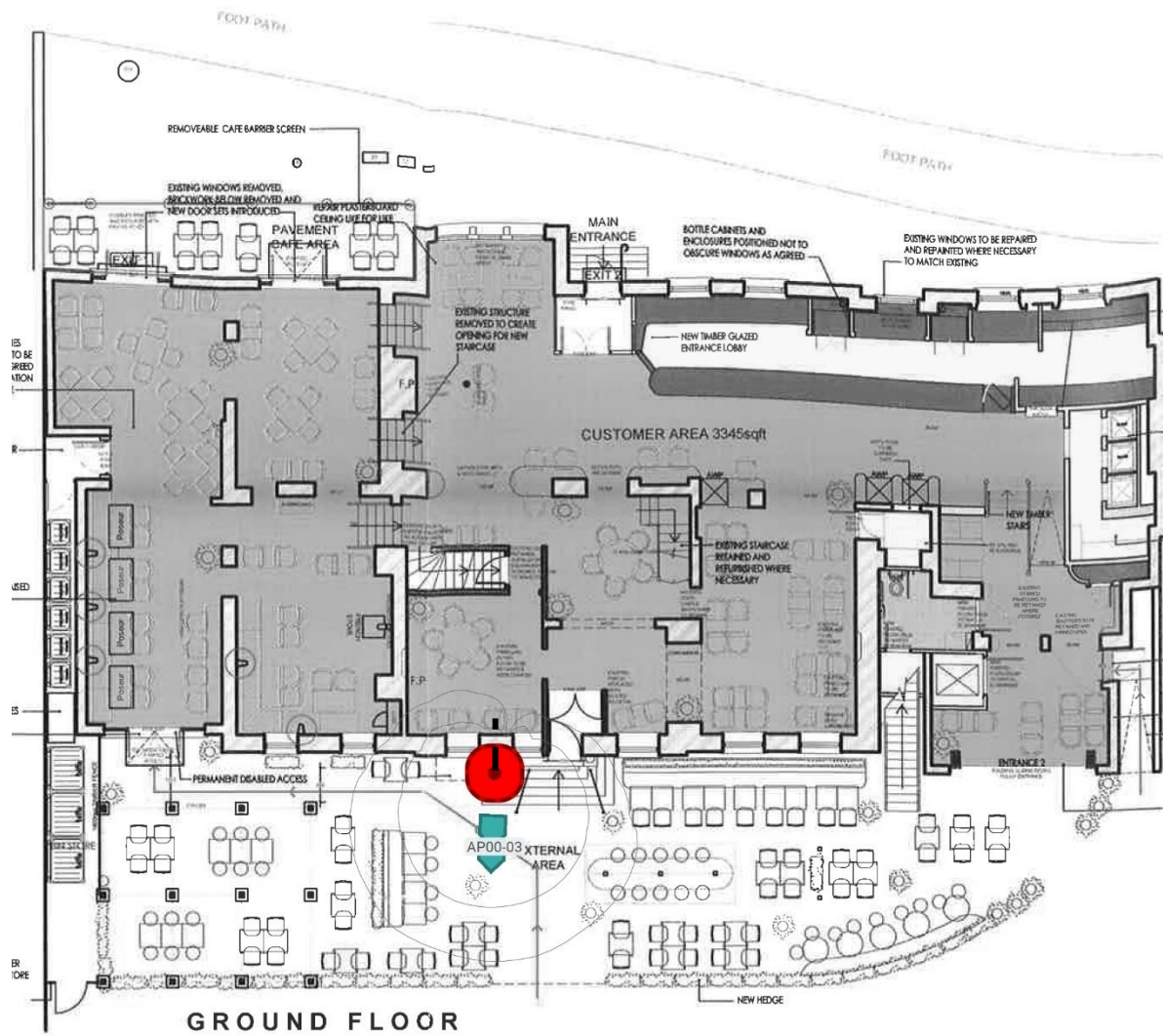
	New cable route not needing containment. Runs above false ceiling
	New cable using external cable
	New cable route using existing containment
	New cable route using new containment
	Location of riser
	MDF
	IDF
	New ceiling hatch required
	Location where drilling is required
	Fortinet Device location
	Existing phone Lines

Select Floors

☐	☐	☐
Basement	Ground Floor	First Floor

Red Line Drawings





Are NEW hatches required?

No

7.2 - Cabling Routes

For each new cable please document which option is selected, confirm status and potential risks.
Option 1 - Cable Hidden, if suggesting a loft hatch the route must be viable. To be able to install cable to 18th edition.

Option 2 - External Route

Option 3 - Trunking AS A LAST RESORT if in a Front of House Area (give reason why option 1 and 2 cannot be used in comment box)

7.2.1 - AP00-01

WAP Status	Existing
WAP Name (Should match Floor Plan)	AP00-01
Floor No.	Ground
WAP Location (i.e. - Kitchen, Toilets)	General Customer Area
Approx. Internal Cable Required	0 m
Approx. External Cable Required	0 m
Approx. Height of WAP	3 m
Does this route require a hole larger than 25mm to be drilled?	No
Cable Route METHOD Existing	Option 1
No. of Hatches required on this route?	0

Insert image of WAP location?



Photo 1

Detailed description of cable route

Existing

Cable route images and any additional drawings (Include hatch locations)

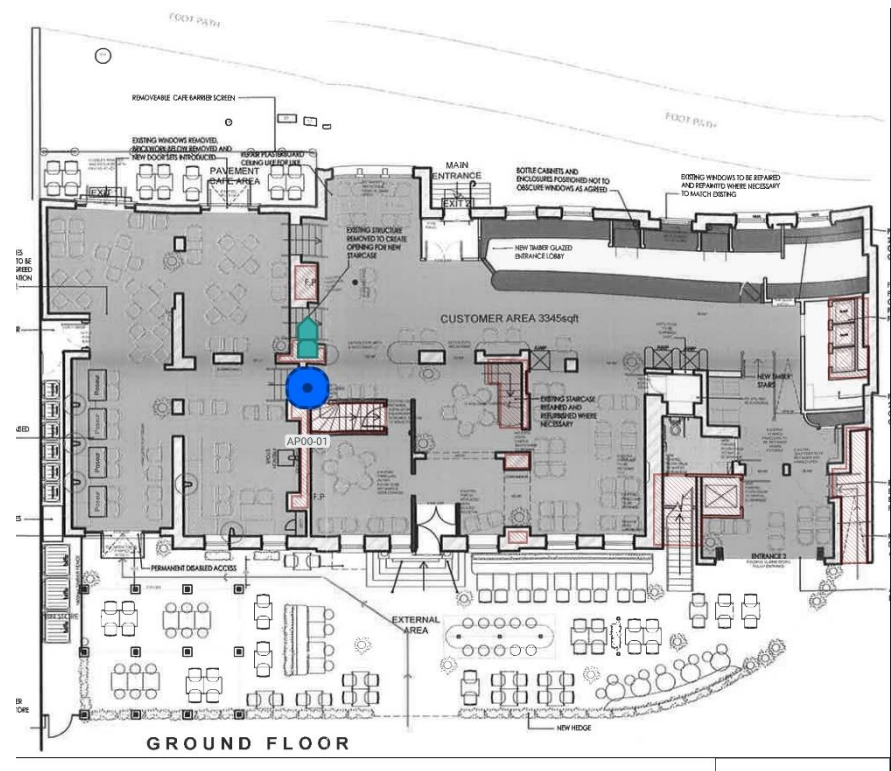


Photo 2

Additional kit required to install this WAP? i.e. -
Trucking/Conduit

No

7.2.2 - AP00-02

WAP Status	Existing
WAP Name (Should match Floor Plan)	AP00-02
Floor No.	Ground
WAP Location (i.e. - Kitchen, Toilets)	General Customer Area
Approx. Internal Cable Required	0 m
Approx. External Cable Required	0 m
Approx. Height of WAP	2.4 m
Does this route require a hole larger than 25mm to be drilled?	No
Cable Route METHOD	Option 1
Existing	
No. of Hatches required on this route?	0

Insert image of WAP location?

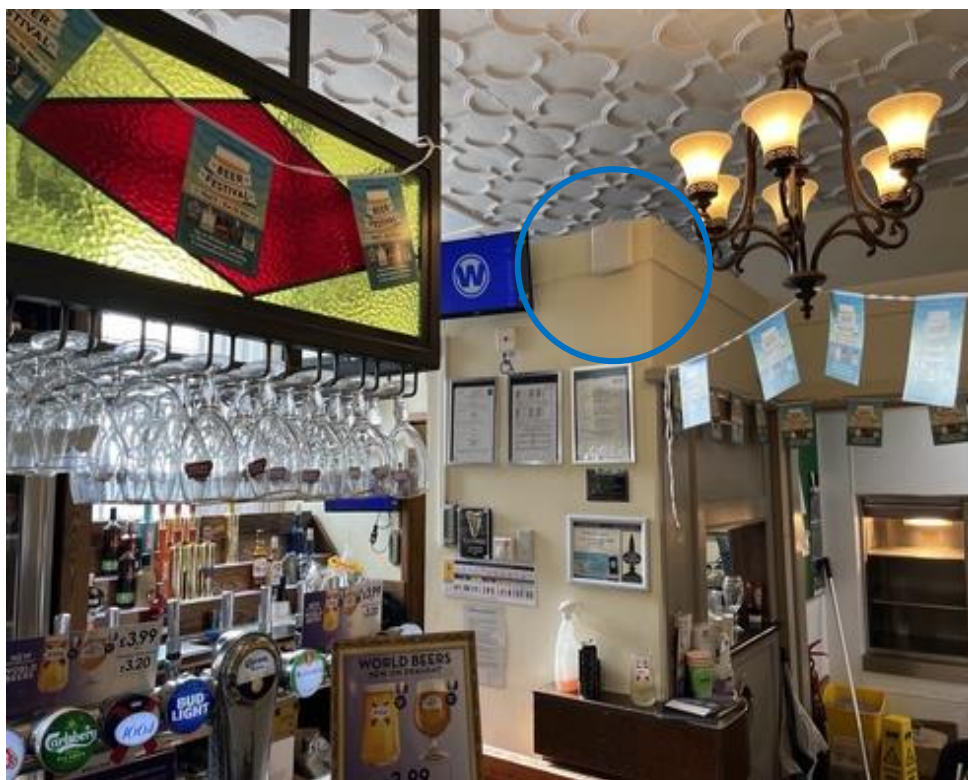


Photo 3

Detailed description of cable route

Existing

Cable route images and any additional drawings (Include hatch locations)

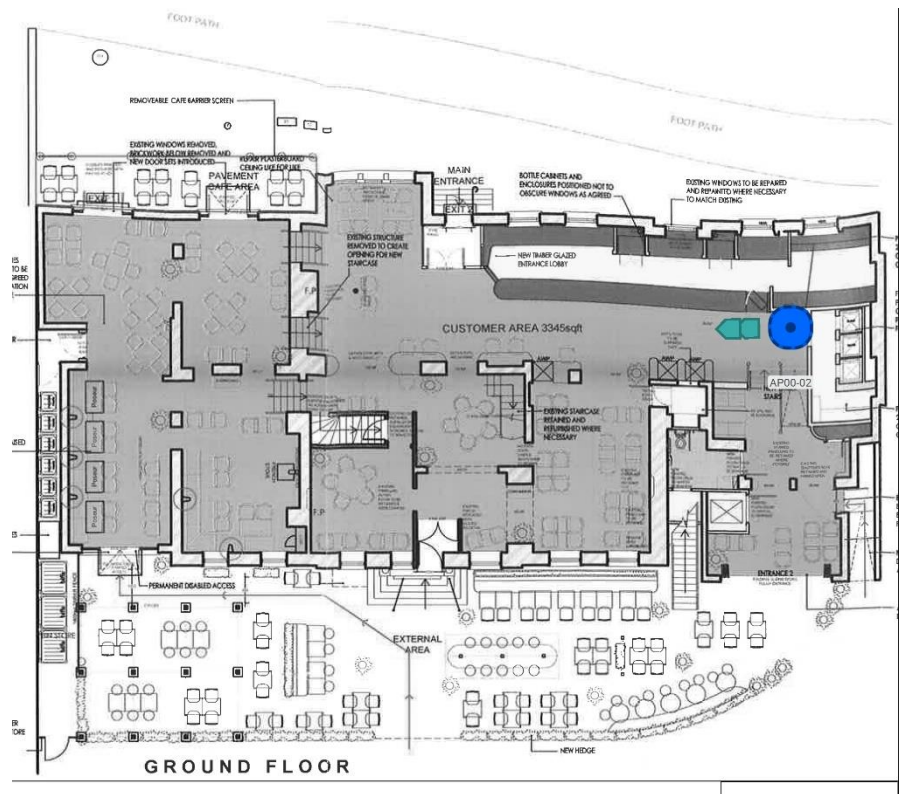


Photo 4

Additional kit required to install this WAP? i.e. -
Trunking/Conduit

No

7.2.3 - AP00-03

WAP Status

New

WAP Name (Should match Floor Plan)

AP00-03

Floor No.

Ground

WAP Location (i.e. - Kitchen, Toilets)

External Rear Seating Area

Approx. Internal Cable Required

0 m

Approx. External Cable Required

20 m

Approx. Height of WAP

3 m

Does this route require a hole larger than 25mm to be drilled?

No

Cable Route METHOD

Option 2

Why isn't Option 1 available?

External AP

No. of Hatches required on this route?

0

Insert image of WAP location?



Photo 5

Detailed description of cable route

Route cabling from comms cabinet "office" through suspended ceiling to rear wall location. 10mm hole required to exit externally. Continue cabling route to proposed AP location. Cable clips and ties required.

Cable route images and any additional drawings (Include hatch locations)



Photo 6



Photo 7



Photo 8

**Additional kit required to install this WAP? i.e. -
Trunking/Conduit**

No

7.2.4 - APBM-01

WAP Status	New
WAP Name (Should match Floor Plan)	APBM-01
Floor No.	Basement
WAP Location (i.e. - Kitchen, Toilets)	Cellar
Approx. Internal Cable Required	0 m
Approx. External Cable Required	65 m
Approx. Height of WAP	2 m
Does this route require a hole larger than 25mm to be drilled?	No
Cable Route METHOD	Option 2
Why isn't Option 1 available? Internal option not viable	
No. of Hatches required on this route?	0

Insert image of WAP location?



Photo 9

Detailed description of cable route

Take the same route as AP00-03.

Route cabling from comms cabinet "office" through suspended ceiling to rear wall location. 10mm hole required to exit externally. Continue cabling route to proposed AP00-03 location and continue to beer cellar hatch location. Follow the existing cabling route to the proposed AP location. Cable clips and ties required.

Cable route images and any additional drawings (Include hatch locations)



Photo 10

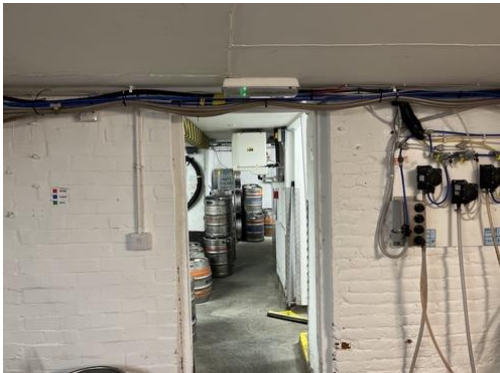


Photo 11

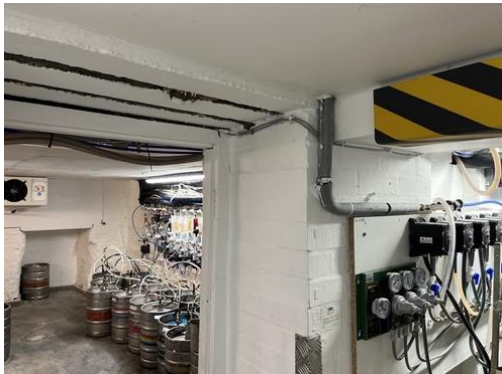


Photo 12



Photo 13



Photo 14



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19



Photo 20



Photo 21

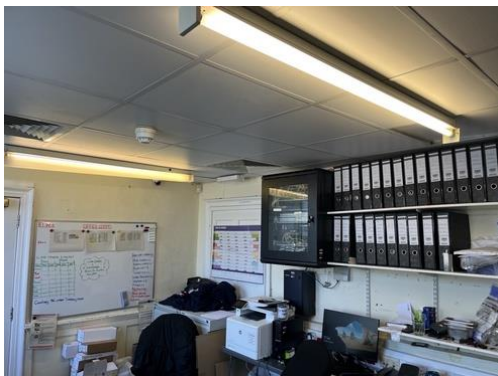
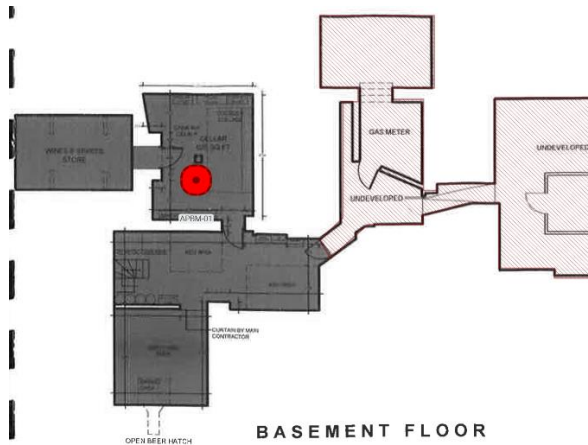


Photo 22



**Additional kit required to install this WAP? i.e. -
Trunking/Conduit**

16mm x 25mm containment

7.2.5 - AP01-01

WAP Status	Existing
WAP Name (Should match Floor Plan)	AP01-01
Floor No.	First
WAP Location (i.e. - Kitchen, Toilets)	Staff Room
Approx. Internal Cable Required	0 m
Approx. External Cable Required	0 m
Approx. Height of WAP	2.4 m
Does this route require a hole larger than 25mm to be drilled?	No
Cable Route METHOD	Option 1
Existing	
No. of Hatches required on this route?	0

Insert image of WAP location?

Unable to locate existing AP. Presumed to be above suspended ceiling.



Photo 23

Detailed description of cable route

Existing

Cable route images and any additional drawings (Include hatch locations)

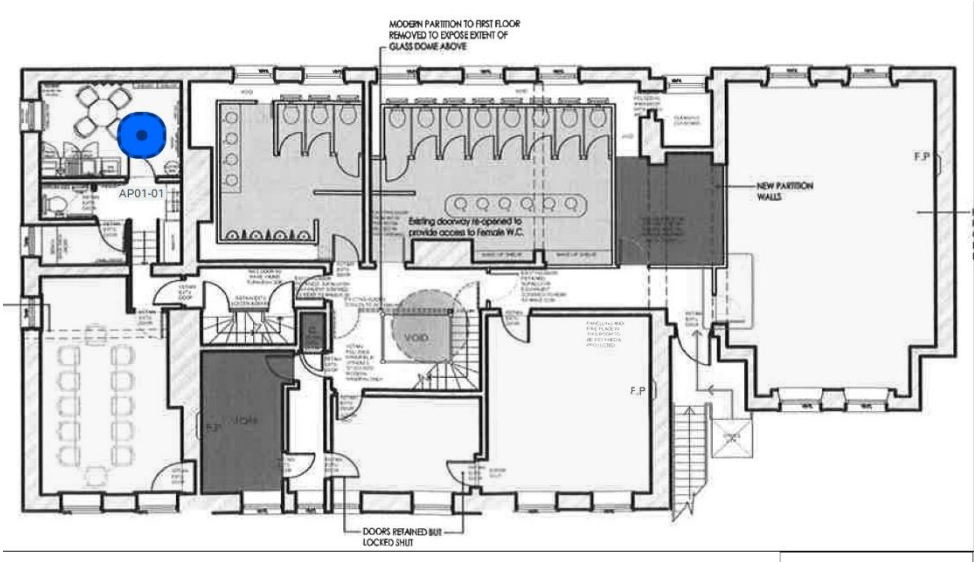


Photo 24

**Additional kit required to install this WAP? i.e. -
Trunking/Conduit**

No

7.2.6 - AP01-02

WAP Status

Moved

WAP Name (Should match Floor Plan)

AP01-02

Floor No.

First

WAP Location (i.e. - Kitchen, Toilets)

Office

Approx. Internal Cable Required

5 m

Approx. External Cable Required

0 m

Approx. Height of WAP

2.4 m

Does this route require a hole larger than 25mm to be drilled?

No

Cable Route METHOD

Option 1

Existing

No. of Hatches required on this route?

0

Insert image of WAP location?

Existing AP is in the comms cabinet



Photo 25

Detailed description of cable route

Existing

Cable route images and any additional drawings (Include hatch locations)

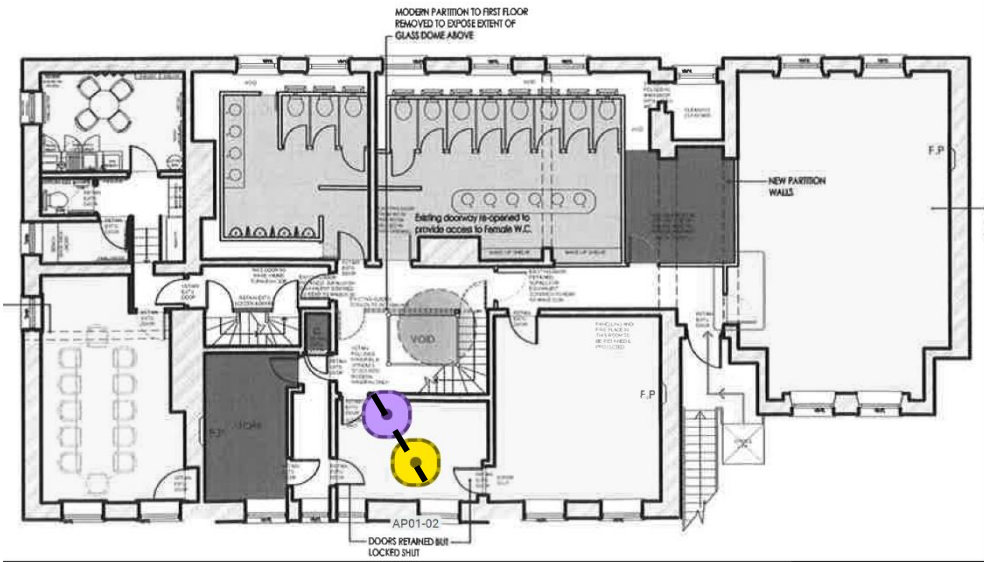


Photo 26

**Additional kit required to install this WAP? i.e. -
Trunking/Conduit**

No

7.2.7 - AP01-03

WAP Status	New
WAP Name (Should match Floor Plan)	AP01-03
Floor No.	First
WAP Location (i.e. - Kitchen, Toilets)	Kitchen
Approx. Internal Cable Required	45 m
Approx. External Cable Required	0 m
Approx. Height of WAP	2.4 m
Does this route require a hole larger than 25mm to be drilled?	No
Cable Route METHOD	Option 1
No. of Hatches required on this route?	0

Insert image of WAP location?



Photo 27

Detailed description of cable route

Route cabling from comms cabinet “office” through suspended ceiling to back wall location. An existing cabling route continues through the wall to a corridor on the other side. There are ceiling hatches for access to the ceiling void. Existing cabling route continues towards the kitchen corridor and through to the storage room. It continues through and into the kitchen suspended ceiling, and onto the proposed AP location. Cable ties required.

Existing spare data sockets are available as an option.



Photo 28



Photo 29



Photo 30

Cable route images and any additional drawings (Include hatch locations)



Photo 31



Photo 32



Photo 33



Photo 34



Photo 35



Photo 36



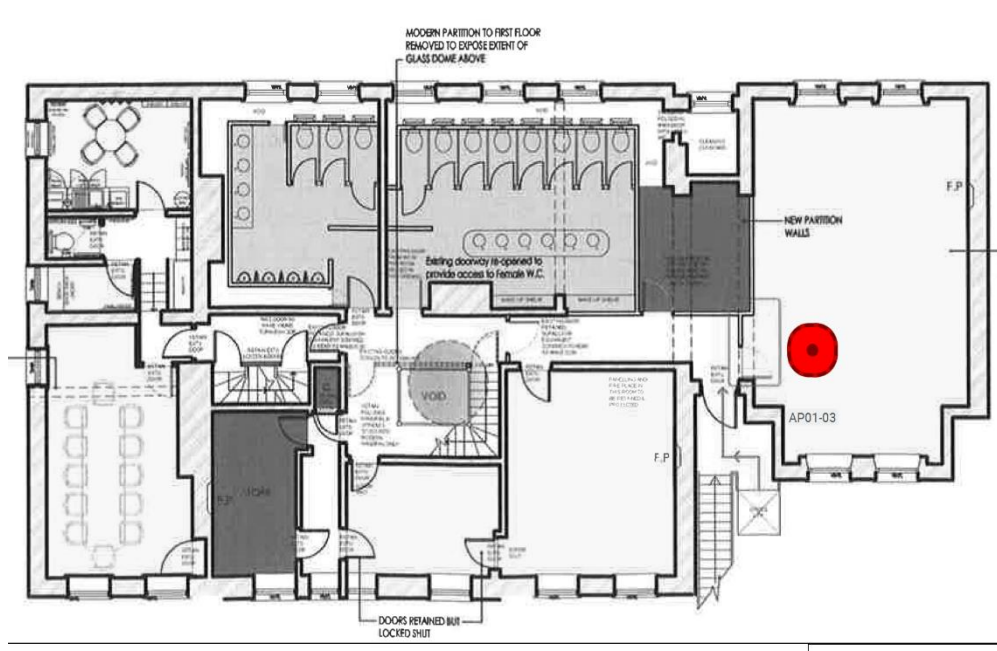
Photo 37



Photo 38



Photo 39



**Additional kit required to install this WAP? i.e. -
Trunking/Conduit**

No

7.2.7 - AP01-04

WAP Status	New
WAP Name (Should match Floor Plan)	AP01-04
Floor No.	First
WAP Location (i.e. - Kitchen, Toilets)	Meeting Room
Approx. Internal Cable Required	35 m
Approx. External Cable Required	0 m
Approx. Height of WAP	2.4 m
Does this route require a hole larger than 25mm to be drilled?	No
Cable Route METHOD	Option 1
No. of Hatches required on this route?	0

Insert image of WAP location?



Photo 40

Detailed description of cable route

Route cabling from comms cabinet “office” through suspended ceiling to front wall location. An existing cable route continues through the wall to a corridor on the other side and runs all the way to the proposed AP location. The existing data cable is for AP01-01. 16mm x 25mm containment will need to be installed along the route of the visible existing data cable.

Cable route images and any additional drawings (Include hatch locations)



Photo 41



Photo 42



Photo 43



Photo 44



Photo 45



Photo 46



Photo 47



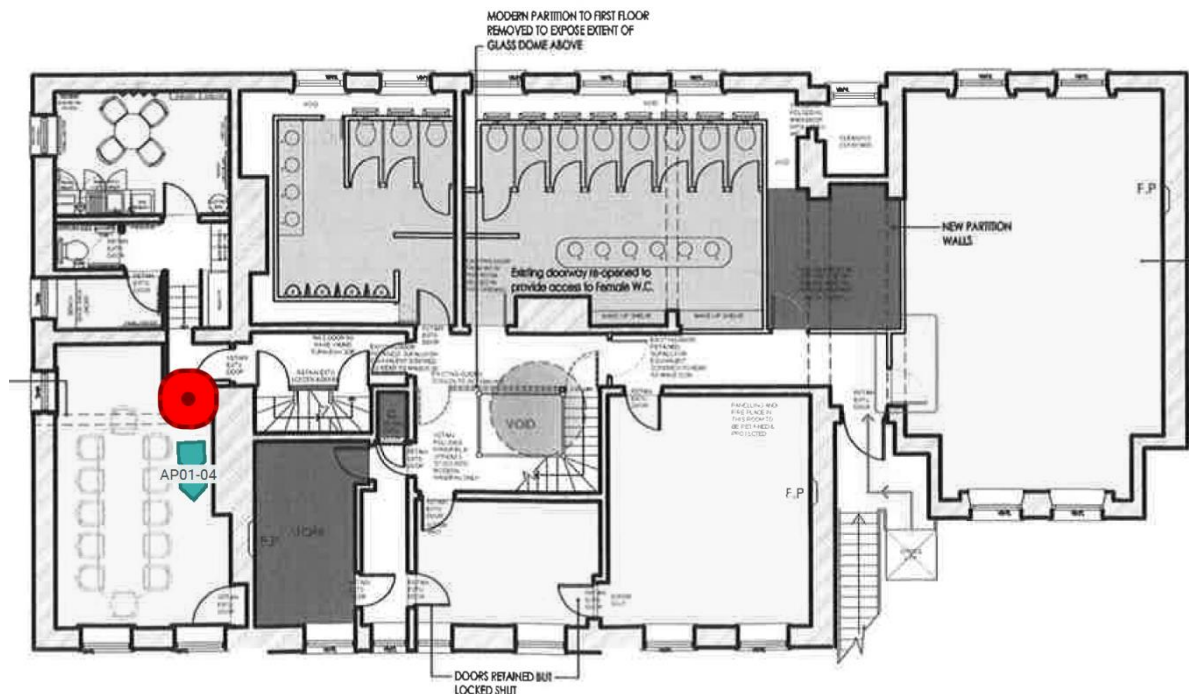
Photo 48



Photo 49



Photo 50



**Additional kit required to install this WAP? i.e. -
Trunking/Conduit**

16mm x 25mm containment

9.3 - BoM

Please insert Quantities of the below materials that you believe you will need for the install.

Cat6 Internal Cable Box. 305m	1
Cat 6 External Cable Box. 305m	1
Single Back Box	7
Single Face Plate	8
Euro Mod	8
1/2 Blanking Plate	8
Patch Lead (0.3m)	8
Patch Lead (1m)	7
Patch Lead (2m)	
Patch Lead (3m)	
External Patch Lead	1
Cable Ties (100 Pack)	1
Metal Banding (per roll)	
Cable Clips (100 Pack)	1
IP65 Enclosure	1
24 Port Cat 6 Patch Panel	1
UPVC Trunking (3m Lengths)	12
Please advise on size and color	16mm x 25mm White
Rigid Black Conduit (Contractor Pack)	

9.4 - Notes and Observations

Days required to install for a 2 Man team? 3

Extra materials required to complete the installation?

Any other comments or concerns...

Asbestos register viewed if building Pre 2000 Yes

Brief description of Fire Stopping status along route? Yes

Access Equipment required?

LADDERS

STEP LADDERS

Are Rooftop workings required? No

Can the installation be conducted within normal operating hours? Yes

8 - RF Coverage Results

NOTE: The purpose of this section is to present the current and proposed RSSI and SNR

8.1 - Basement

8.1.1 - 5GHz

RSSI Existing



Photo 61

RSSI Proposed

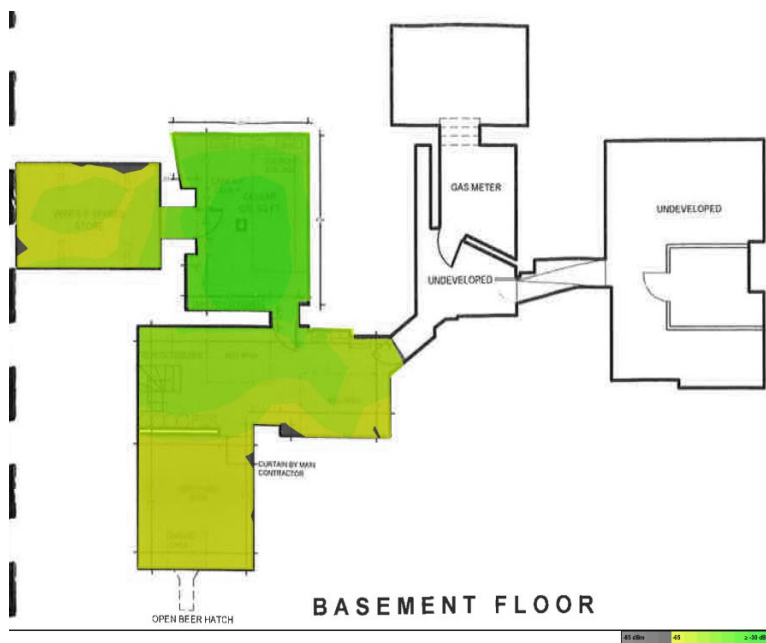


Photo 62

SNR Existing

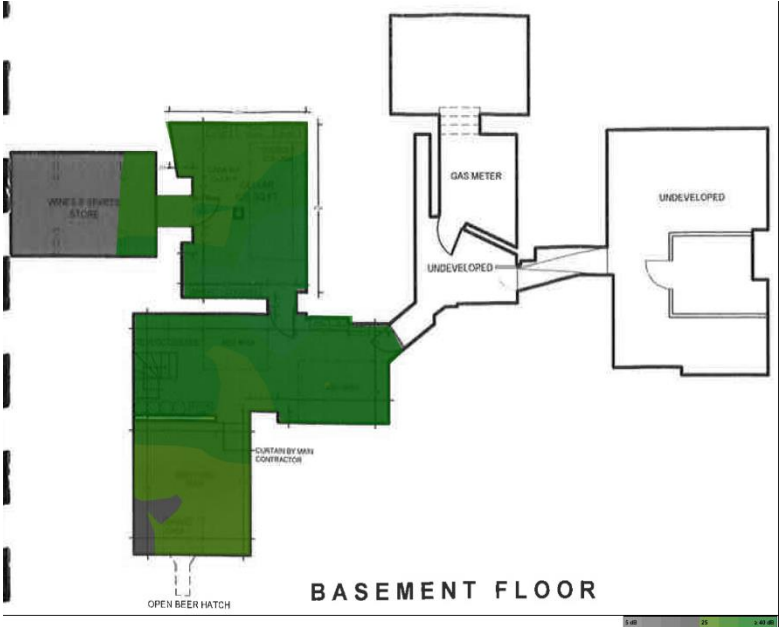


Photo 63

SNR Proposed

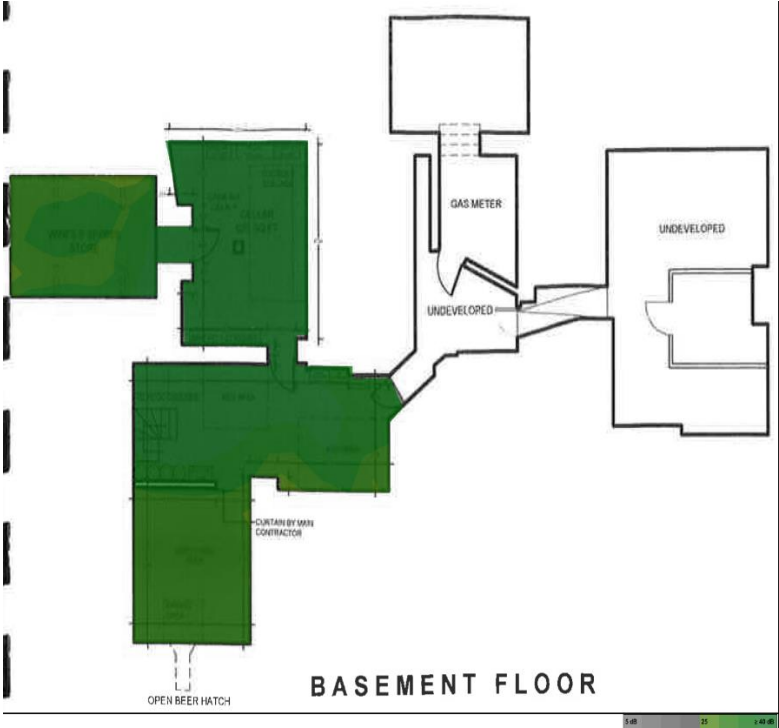


Photo 64

RSSI Existing



Photo 65

RSSI Proposed

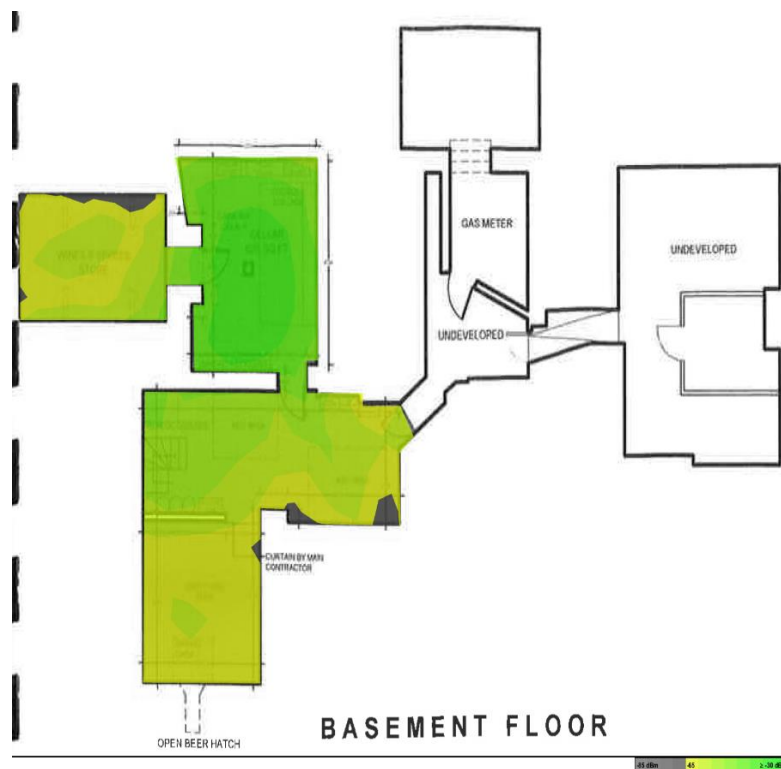


Photo 66

SNR Existing

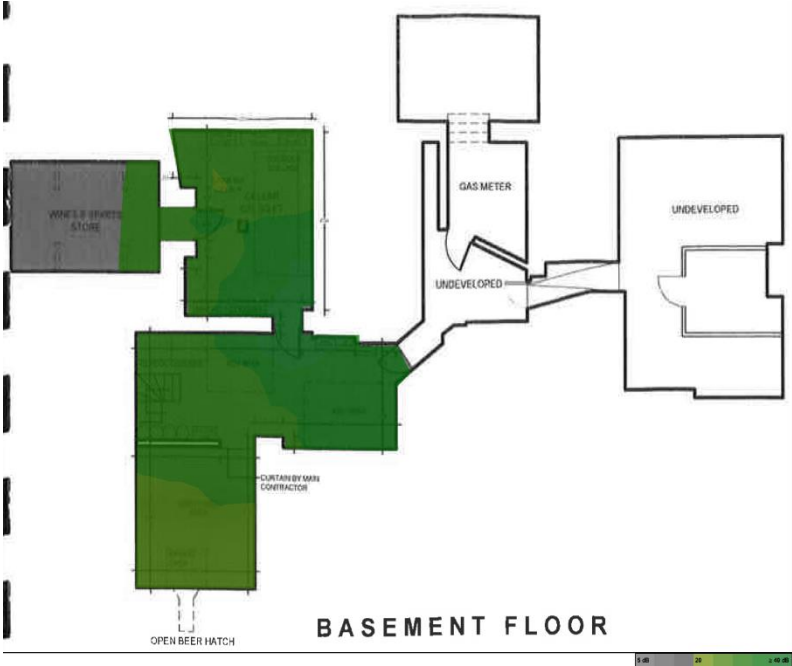


Photo 67

SNR Proposed

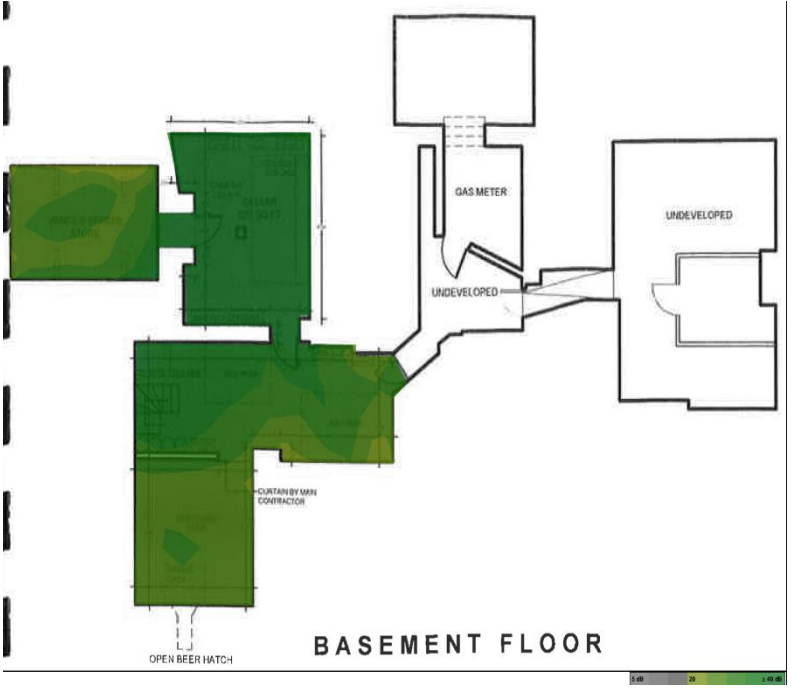


Photo 68

8.2.1 - 5GHz

RSSI Proposed



Photo 70

SNR Existing

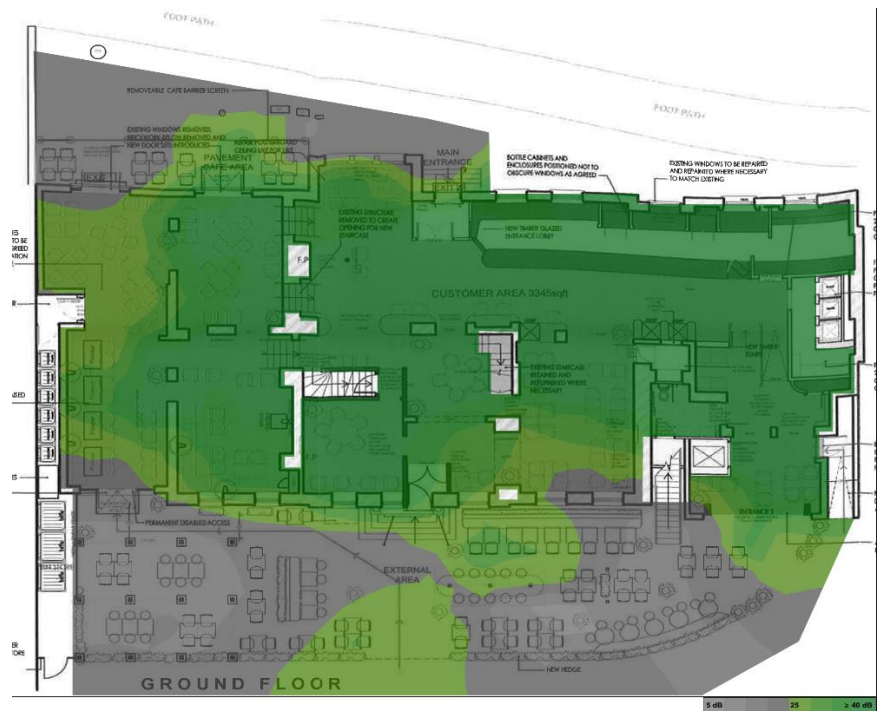


Photo 71

SNR Proposed

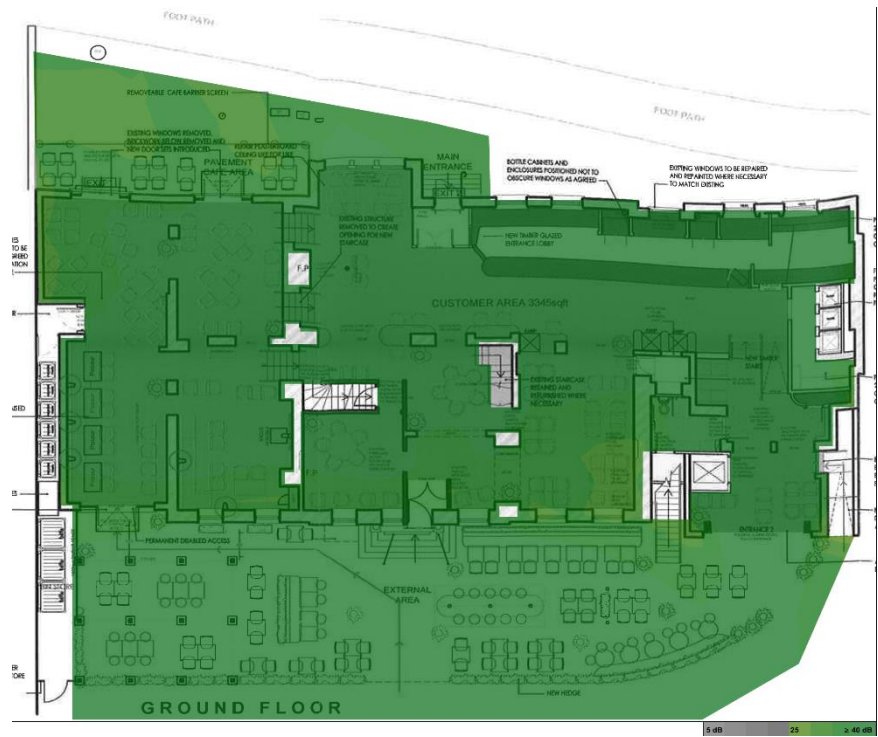


Photo 72

RSSI Existing



Photo 74

SNR Existing

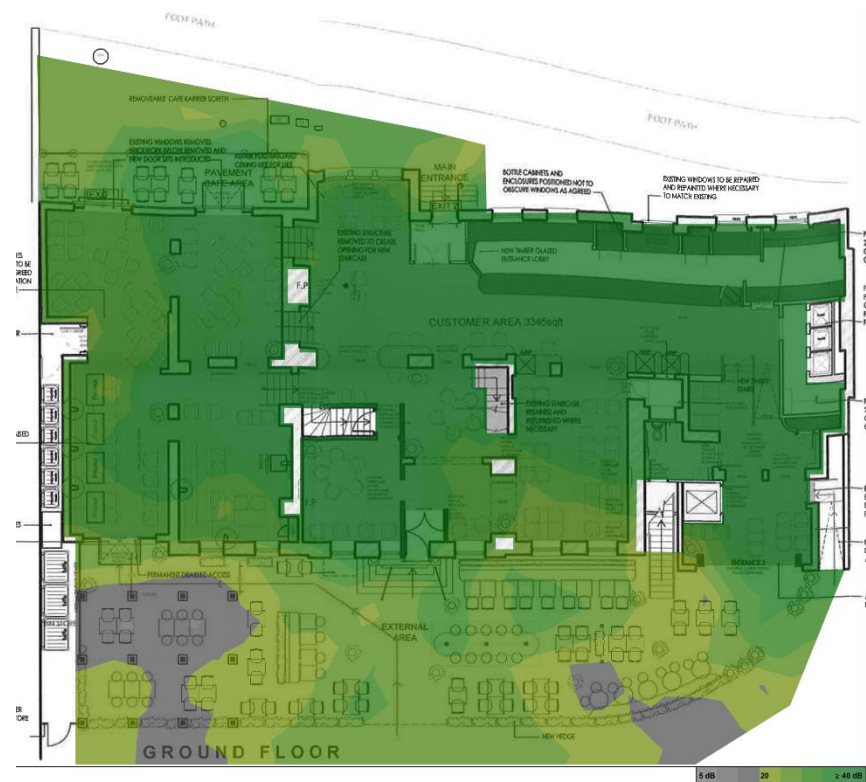


Photo 75

SNR Proposed



Photo 76

8.3 - First Floor

8.3.1 - 5GHz

RSSI Existing



Photo 77

RSSI Proposed



Photo 78

SNR Existing



Photo 79

SNR Proposed

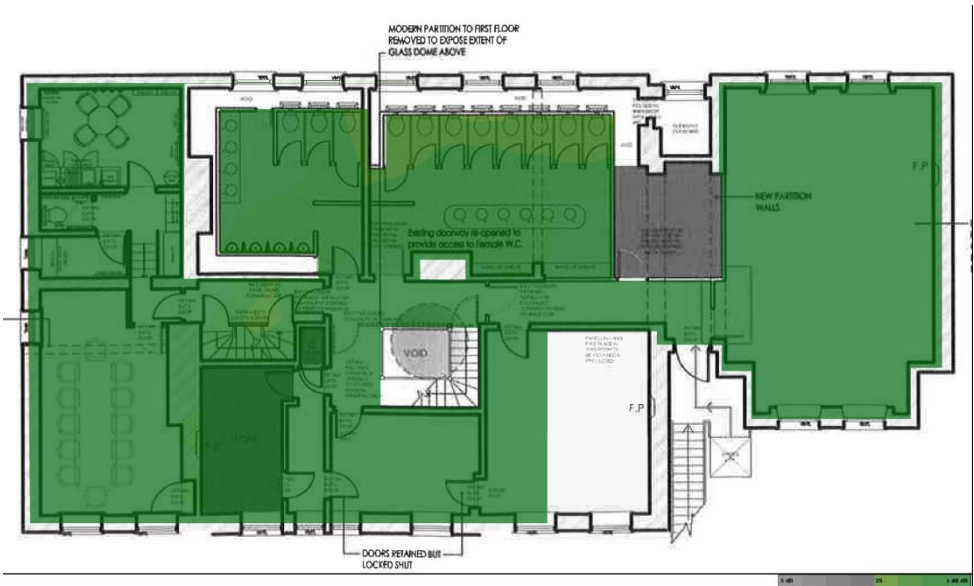


Photo 80

8.3.2 - 2.4GHz

RSSI Existing



Photo 81

RSSI Proposed



Photo 82

SNR Existing



Photo 83

SNR Proposed



Photo 84

9 - Cabinet Survey

Photos of Cabinet - Door Open & Wide-Angle Location.



Photo 85



Photo 86

Cabinet Location - Floor/Room

02 FIRST OFFICE

Cabinet Mount Type

Wall Mounted

Cabinet Size in U

15

Cabinet Depth in MM

500 mm

Port Usage of the current Wi-Fi Switch

4 of 8

Available Power Sockets on PDU

0

Add photos of additional power sockets within cabinet location



Photo 87

Is a New Cabinet required?

No

9.1 - MDF Rack Elevation Drawing

Note: Template attached or upload your own image/pdf detailing the contents of the MDF and any IDF's.

[JDW Cabinet Layout.pdf](#)

Insert cab build diagram here, upload as picture using snipping tool

Slot	Device	Comment
18		
17		
16		
15		
14	Patch Panel	Cat 5e
13	Patch Panel	Cat 5e
12	Cable Management	
11	Cisco 2960 Switch	
10	Spare	
9		
8	Patch Panel	Cat 5e, between 8/9
7	Spare	between 7/8
6	Cisco 800 Series Router	1U Shelf, between 6/7
5	Cisco 800 Series Router	on switch, between 5/6
4	Cisco SF302-08MP Switch	between 4/5
3	Spare	between 3/4
2	Zonal	1U Shelf, between 2/3
1	Cable Management	between 1/2
0	PDU	6 sockets, none spare, between 0/1

Depth 500

Photo 88

9.2 - Device Details

Note: Use the attached image to complete this section.

[Device Layout.pdf](#)

Insert Device Detail List here, upload as picture using snipping tool

Device Type	Hardware Details		Ports				Comment
	Manufacturer	Model	Total	Used	Free	Lit	
Switch	Cisco	Catalyst 2960	48	29	19	23	One uplinks used
Switch	Cisco	SF302	8	4	4	4	Both uplinks used and one lit
Router	Cisco	800	4	1	3	1	ADSL port used and lit on panel
Router	Cisco	800	4	1	3	1	ADSL port used and lit on panel
Zonal	Zonal	Z500	4	2	2	0	Ethernet uplink used and lit on port

Photo 89

9.3 - Circuit Details

Please mark the wall with "BT New Line Here"

Attach image of Router uplink (ADSL)



Photo 90

Image of proposed location of New Router uplink



Photo 91

10 - 4G FEX Test Results

Note: FEX testing to be carried using issued device with POE, 3 separate locations to be tested, floor to be uploaded highlighting most suitable location.

Floorplan showing Test Results

01 GROUND 4G Test Positions

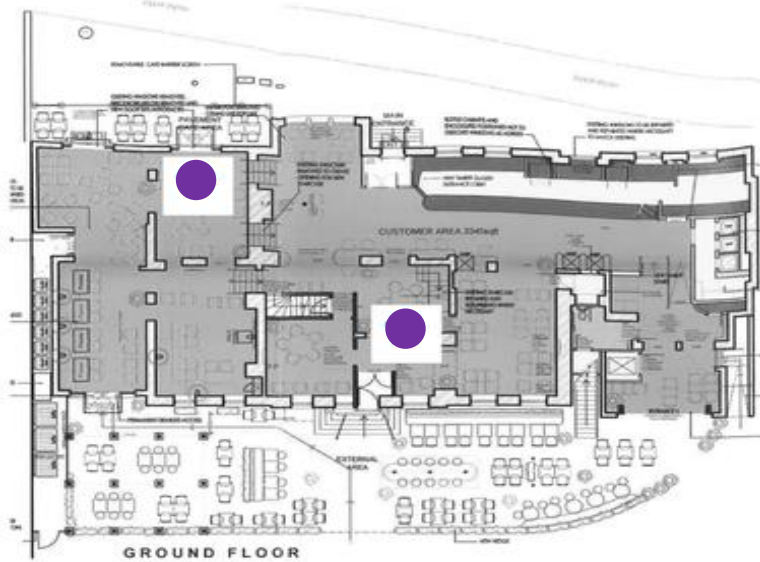


Photo 92

02 FIRST 4G Test Positions

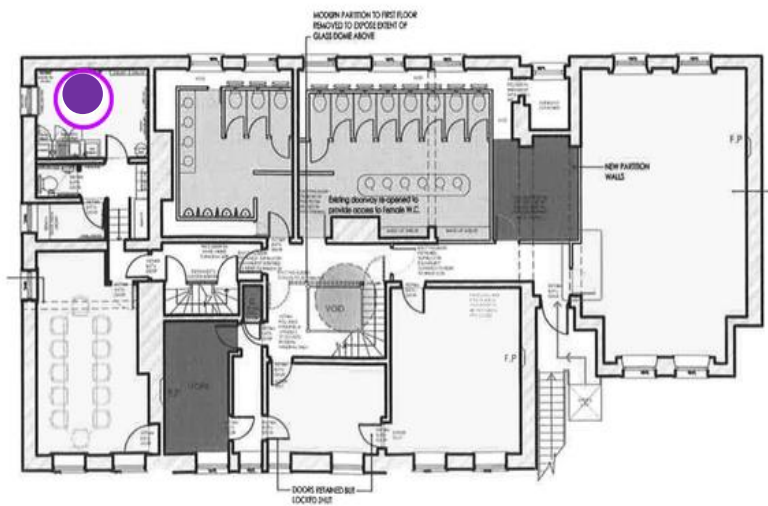


Photo 93

Floorplan Highlighting Best Location (Purple Circle)

02 FIRST 4G Test Positions

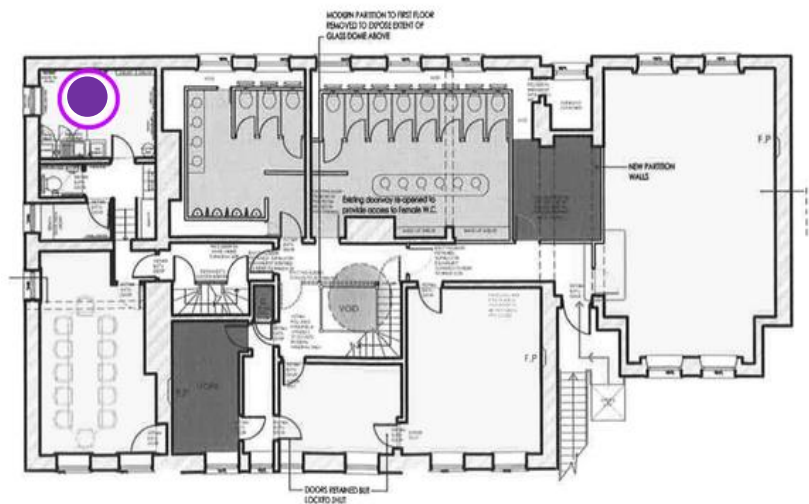


Photo 94

Upload screenshot of Best test result

Modem 1 [CONN_STATE_CONNECTED] [IP: 10.242.130.135]

Revision	EM06ELAR04A03M4G		
IMEI	866680042293532		
Service	LTE		
Online Time	216		
Carrier Aggregate	INACTIVE		
Signal Strength	64		
APN	pkp18-inet		
Cell ID	929437F		
Band	LTE BAND 40		
Band Width	20 MHz		
Plan	Pangea		
Roaming Status	Registered, roaming		
Reconnect Count	0		
RSSI	-68 dbm	SINR	20 db
RSRP	-100 dbm	RSRQ	-9 db

Photo 95

Floorplan Identifying IDF

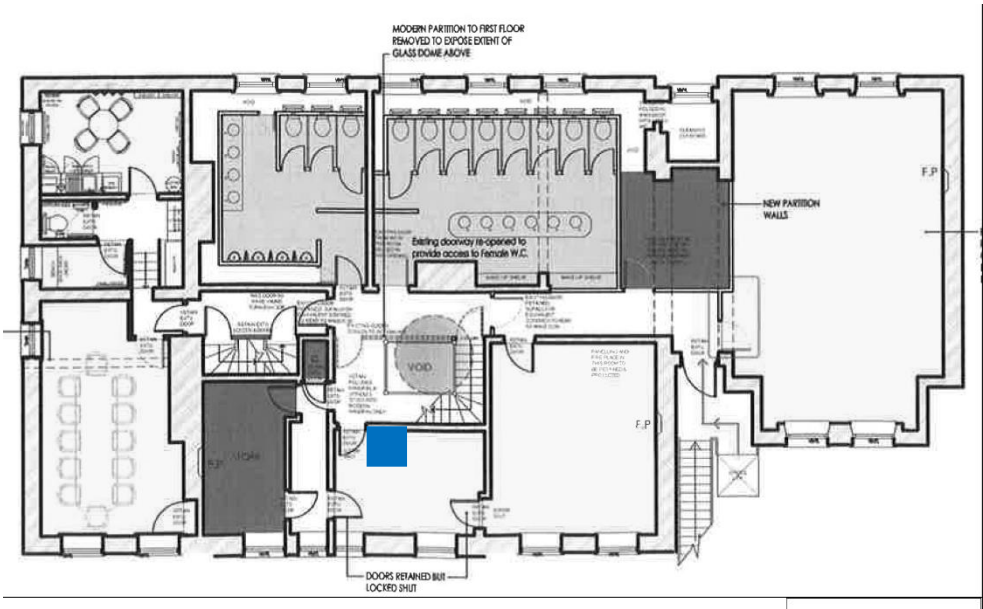


Photo 96

11 - BOM

Quantity of Fortinet FAP-231-F (internal)	9
---	---

Quantity of Fortinet FAP-234-F (external)	2
---	---

Quantity of Fortinet FAP-400-MNT (ceiling and wall mounting bracket)	9
--	---

In addition, a right-angle wall bracket is required for the AP in the toilet duct. The AP on the front of the building will need to be angled and it will require an articulated mount/pole mount.

Quantity of 12-way 1U PDU	1
---------------------------	---

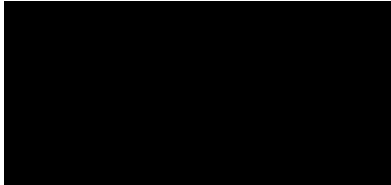
Quantity of 6U wall mounted data cabinet 390mm deep	0
---	---

12 - Notes and Observations

Additional info that needs to be raised to the client

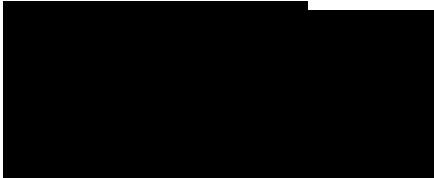
13 - JDW Onsite Sign Off

JDW Site Manager Signature



Jay Johnson
29/11/2024 18:45 GMT

Surveyor Signature on Completion



Mark Woodley
29/11/2024 18:24 GMT