



Listed Building Consent Application

Installation of WiFi at

Cannon Hall Museum



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Introduction

Barnsley Council operate five museum sites across the borough. These visitor attractions currently have very limited or no wi-fi connectivity for staff and corporate guests, and little or no connectivity for the public. Consent is sought to improve or install equipment to enable wifi connectivity within Cannon Hall, the Walled Gardens, the Volunteer Hub and the Pet Crematorium.

Background

Barnsley Museums welcome over £1.3M visitors annually to the council owned visitor attractions at Cannon Hall, Elsecar Heritage Centre, the Cooper Gallery, Experience Barnsley Museum and Worsbrough Mill. The visitor attraction market is highly competitive and expectations of today's visitors have gone way beyond simple learning through seeing and reading. Visitors want to stay fully connected throughout their visit. It's increasingly important that visitors can use their phones to engage with our interpretation and offer and connect to social media during their visit. In addition we need this connectivity to support our business clients who want to hire the venues but need and expect good connectivity. All Barnsley Museums are free to enter so it is important to continue to attract visitors to boost donations. Improving our offer will achieve this.

Wi-fi connectivity is poor or non-existent in many areas of the museum buildings in which our teams are currently based which limits agile working.

The proposal to improve and install wifi at our museum sites supports the council's commitment to Digital First agenda, and the delivery of Barnsley Museums' Digital Strategy, a requirement as a National Portfolio Organisation and the Barnsley 2030 priorities (Digital Barnsley).

Capital Funding to undertake the project was agreed by Cabinet on 14/07/2021 Cab.14.7.2021/11. Work has taken place in conjunction with key stakeholders to further develop plans and we are now in a position to seek Listed Building Consent to complete the work.

Design and Access Statement

This statement is to support the application for the proposed addition of wifi to Cannon Hall Museum, Walled Gardens, Volunteer Hub, North Range and Pet Crematorium.

Location plan and site description:

Cannon Hall and associated Park is situated in South Yorkshire, 1.3 km north-west of Cawthorne Village. Cawthorne lies north of the A635 between Barnsley (6.3 km) and Penistone (5.5 km).

The site encompasses Cannon Hall Museum (Grade II* listed ref:1151805) and the Country Park (grade II listed ref: 1001159).

The area is essentially divided into two broad areas: with the hall, pleasure grounds and walled garden to the north; and the former deer park to the south.

The walled garden is home to the Volunteer Hub and North Range Training Centre. There is a Pet Crematorium on the outside of the perimeter of the walled garden to the East.

The site is surrounded by Parkland to the South and Woodland to the West. The site is accessible by car and on foot from Bark House Lane.

The main site pedestrian access to the site is from Car Parks sited off Bark House Lane. There is a car park located immediately outside the museum that is used solely for staff and Disabled parking.

The privately owned Cannon Hall Farm, a popular visitor destination, and associated outbuildings including a farm shop, café, restaurants and indoor and outdoor play areas is located to the North east of the development.



A further site plan has been submitted as an additional document.

Planning Statement

Relevant Legislation/Planning Policy:

Planning (Listed Buildings and Conservation Areas) Act 1990

In terms of the impact on the special character and appearance of the listed building, Section 16 (2) of the Planning (Listed Buildings and Conservation Areas) Act 1990, states:

In considering whether to grant listed building consent for any works the local planning authority or the Secretary of State shall have special regard to the desirability of preserving the building or its setting or any features of special architectural or historic interest which it possesses

The National Planning Policy Framework (NPPF)

NPPF para 189 and 190: The NPPF requires applicants to describe the significance (heritage) of any heritage asset affected by a proposal including any contribution made by the setting of the asset. The level of detail should be proportionate to the importance of the asset and the degree of intervention the proposal represents. The local Planning Authorities will take the heritage significance of an asset into account and consider any impacts on the asset to avoid conflict with the conservation of the asset.

NPPF para 193: Great weight given to an asset's conservation, irrespective of the degree of harm

NPPF para 194: Any harm to or loss of significance will require clear and convincing justification

Barnsley Local Plan Policies

Barnsley Local Plan Policy HE1: The Historic Environment: Positively encourage developments that help in the management, conservation and understanding of the historic environment

Barnsley Local Plan Policy HE3: Developments affecting Historic Buildings: Proposals involving historic buildings should conserve and where appropriate enhance, respect historic precedents, and capitalise on opportunities to reveal significance

Proposed Work

Wifi is required in all public areas in the hall, staff areas of the hall, the walled garden, volunteer hub, North Range training rooms and the Pet Crematorium. Wifi was previously installed in the Spencer Wing and the meeting rooms above the Spencer Wing.

The Council's IT contractor has provided a proposal to achieve this. The contractor has worked on similar projects in the past for the British Museum, the British Library and cities of York and Bath.

The network switches at Cannon Hall, which are currently in the second floor office space and in a cupboard in the Spencer Wing, will need to be replaced to increase the capacity of the equipment to the necessary levels. A larger network cabinet will be installed in the Spencer Wing. The North Range will have network switches and a cabinet installed. It is proposed that the network switch in the North Range will be housed in the deep kitchen style cupboard opposite the entrance door.

Thirteen internal access points (AP) will need installing to cover the required areas in the Hall. These will be connected via cables, either the network switch on the second floor, or the one in the Spencer Wing, whichever is easiest.

The structured data cables, installed as part of the project to provide power and up to 1Gbps data network services to the wireless access points, will be Leviton category 6 unshielded twisted pair (UTP). The cables will be run through existing and/or new surface mounted trunking where needed. Any new trunking installed will be done in an aesthetically sensitive way.

Three external APs will cover the terrace outside the Volunteer Hub and the Walled Garden. Wireless bridge links, which enable two or more buildings to be connected without the need for cables, will be installed on the corner wall of the cottages facing the Walled Garden, North Range Training Room and the rear of the Walled Garden wall. The bracket (below) will be used to fix the bridge link to the rear of the Walled Garden wall. These bridge links will extend the data network from the main hall to the North Range Training Room and Pet Crematorium.

Internal AP



Dimensions: W x L x H
21.6cm x 21.6cm x 4.3
cm

External AP



Dimensions : W x L x H
25.9cm x 23.3cm x 8.1
cm

Bridge Link



Dimensions: H x W x D:
16.9 cm x 10.0 cm x 5.4
cm

Fixing Bracket



4 cm diameter pipe
15 x 15 cm wall plate
25cm wall stand off

The internal and external APs have internal antennae to minimise their appearance. (See appendix A for further information) Where required, the APs and other equipment can be wrapped to blend in with décor or surroundings. (See appendix B)

Works to install power, as described below, will be undertaken by Barnsley Property Services.

Cannon Hall North range network cabinet – 1 x fused spur + Building Functional Earth (BFE)

Cannon Hall Pet Crematorium bridge and AP – 1 x fused spur (or 1 x 13A outlet)

Example of fused spur below:



Where it is appropriate aesthetically, wall mount 2P+E Industrial Power Sockets may be used rather than a fused spur. Example below:



A test wifi mapping survey was undertaken within Cannon Hall by the Council's IT Team. The mapping survey identifies the optimal place to site an access point for the best coverage. This showed that the sites identified for the APs in this proposal would be sufficient to meet the project brief. However, the proposed locations may be subject to minor changes, dependent upon availability of suitable cable routes and further digital wifi signal mapping survey by the IT contractor. In the event of this situation, preservation of the asset would come first. If changes are required, they will be discussed and agreed with the Council's Conservation Officer.

Basement Cannon Hall

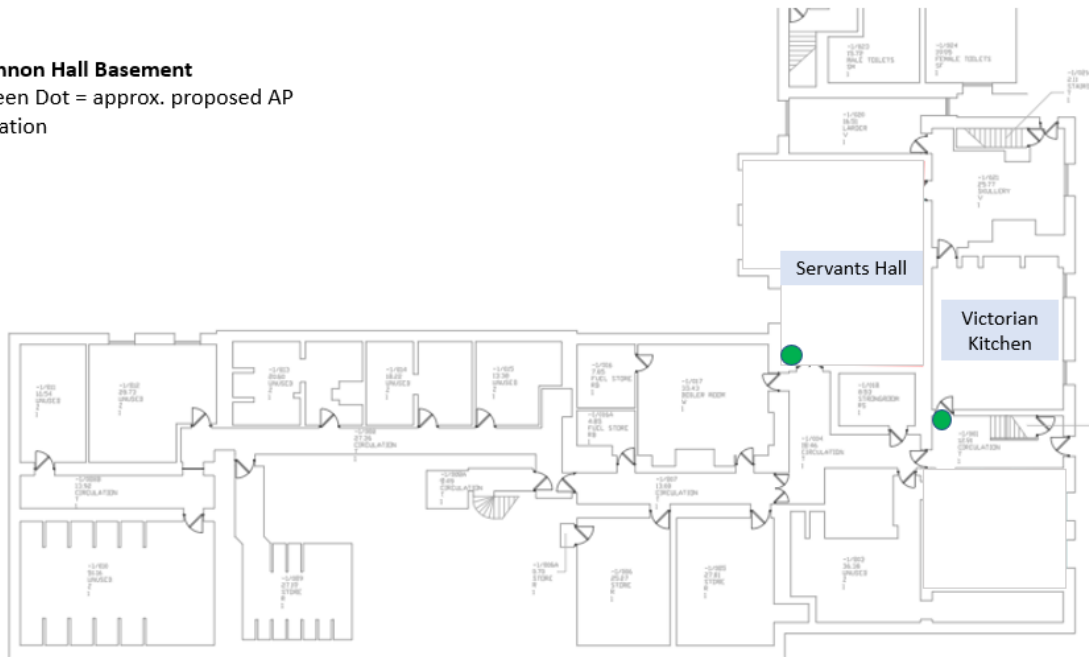
The Victorian Kitchen and Servants Hall in the basement rooms are used as learning and events spaces. Wifi is required in the basement to enhance the offers available for learners and visitors to the Hall. It will also enable staff to work more efficiently from this location as they will be able to access the corporate network.

The APs will either be located on the wall or ceiling.

The green dots indicate which room the APs will be located

Cannon Hall Basement

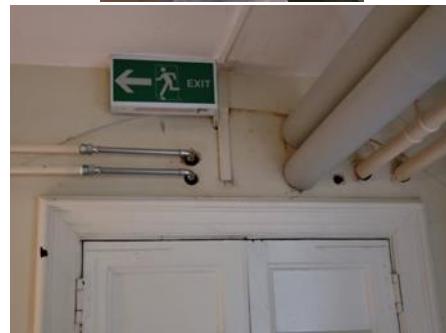
Green Dot = approx. proposed AP location



Basement corridor near entrance to Victorian Kitchen



Servants Hall



The AP for the basement corridor could be located either on the ceiling or wall. The existence of suitable cabling routes will assist in determining the best location of the APs in this area, however aesthetics and the preservation of the asset will be taken into account first and foremost. The photo above left is an example of what the AP would look like on the wall (Grey rectangle). It could be wrapped to match the colour of the wall, or left white if installed on the ceiling. As can be seen from the photos above right, in the Servants Hall there is an existing hole that may be able to be used for cables to run through. The AP could be located on either the ceiling or the wall.

Ground Floor Cannon Hall

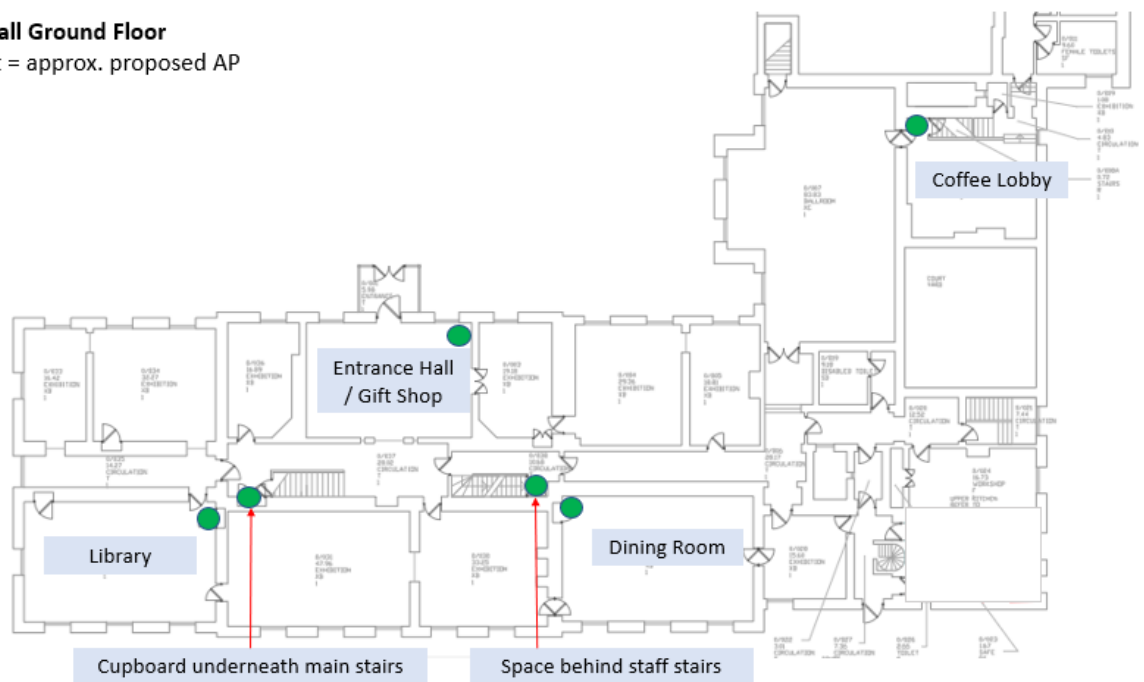
A combination of exhibitions and dressed, period rooms are on the ground floor at Cannon Hall. The Ballroom is also used as a wedding venue. The addition of wifi would enhance the offer for visitors and clients of the wedding service and help to further raise the profile of the museum as people can link easily to social media accounts whilst at the site. The wifi would benefit staff as they could connect to the corporate network from anywhere in the hall. This would be especially helpful when undertaking research and cataloguing items.

Many of the AP locations proposed are in cupboards. Tests have shown that this does not greatly impact upon their efficiency and means that they do not affect anything aesthetically.

The green dots indicate the proposed AP locations

Cannon Hall Ground Floor

Green Dot = approx. proposed AP location



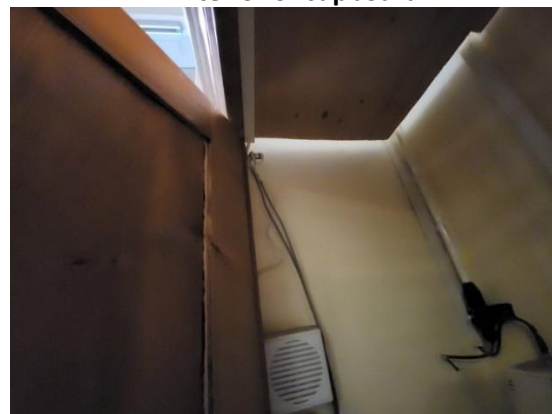
The AP in the Entrance Hall / Gift Shop can be located in the cupboard in the photo below so not visible to visitors.

There is already cable trunking to this location.

Exterior of cupboard



Interior of cupboard



Additional photos for context of cupboard location in Entrance Hall / Gift Shop



The addition of an AP in this location would not be aesthetically detrimental to the room.

Proposed Location of APs on the Ground Floor Corridor

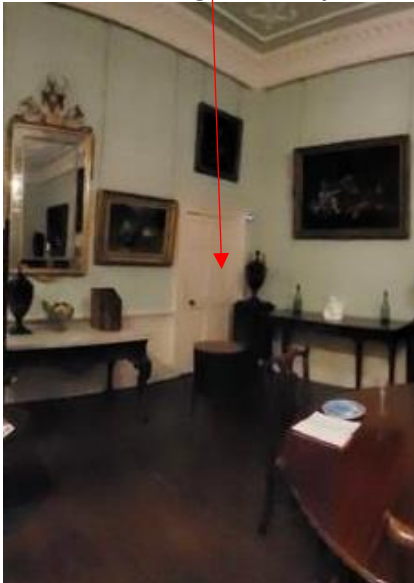
AP on the wall behind the stairs



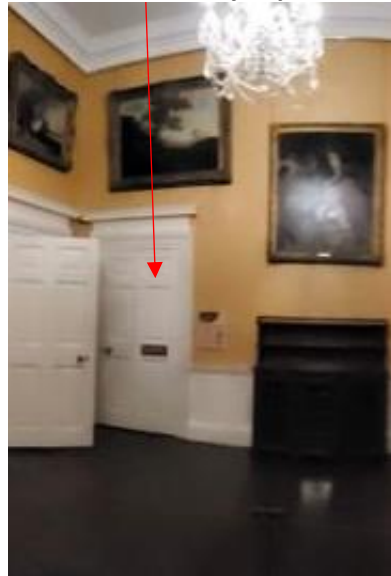
AP in the cupboard under the stairs



AP in the Dining Room cupboard



AP in the Library cupboard



None of the above APs would be visible to visitors. The AP that is proposed for the Dining Room cupboard could instead be located in the cupboard near the Ballroom or on the corridor leading to the basement stairs, shown in the images below, if the APs are thought to be too close and/or coverage is sparse in the vicinity of the Ballroom. The wifi signal mapping survey will assist in determining this.

Possible alternative locations for Dining Room cupboard AP Left: cupboard near the entrance to the Ballroom) Right: Corridor to basement stairs



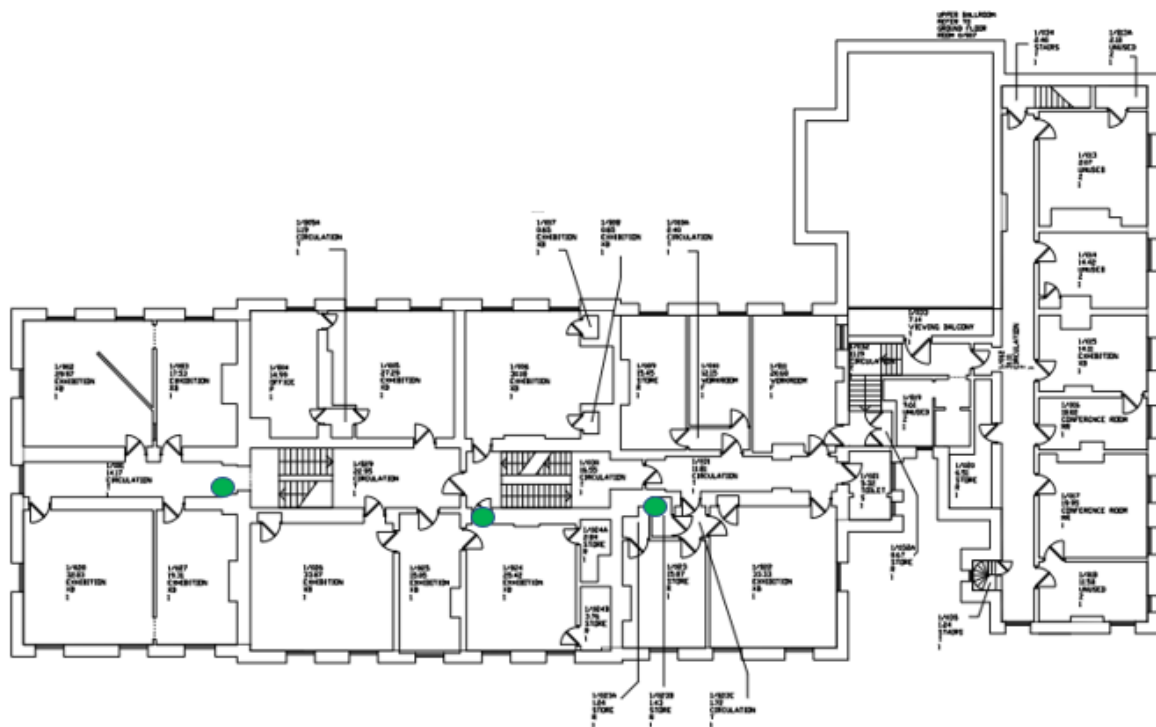
Coffee Lobby (to cover the Ballroom)

The Ballroom is clad in oak panelling with decorative mouldings to the ceiling. To avoid compromising this décor, an AP could be installed in the Coffee Lobby around the doorway area. The Coffee Lobby is an ante room to the Ballroom. Access from the Coffee Lobby to the Ballroom is through the door shown in the picture. The AP could be located on either the wall or ceiling in this room.

Coffee Lobby



First Floor Cannon Hall



Green dots = Internal APs

The AP to cover the DeMorgan exhibition area, comprising of four rooms, could be located on the ceiling or high on the wall of the entrance corridor. Alternatively, it may be able to be located behind the arch of the entrance to the exhibition. Cable trunking exists in this location and follows the path of the dado rail. There is already a cable route that runs around the archway also. The existing trunking may be able to be reused or replaced with a similar product that follows the same path(s). (See appendix A for example of trunking.) Mounting the AP in one of these areas should provide wifi coverage for the whole of the DeMorgan exhibition and minimise the need to move items of the collection.

Entrance to the DeMorgan exhibition



Entrance corridor to the exhibition

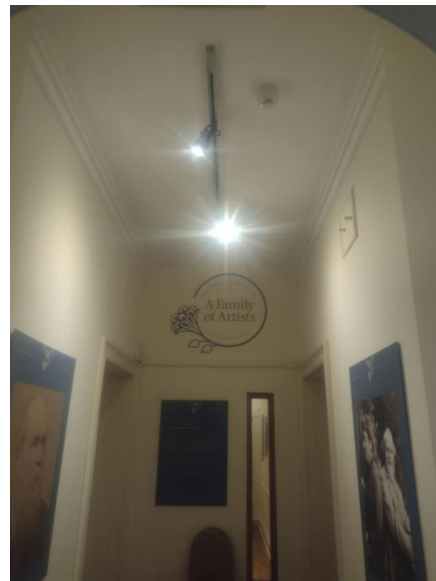


Photo below shows the reverse of the archway in the photo above

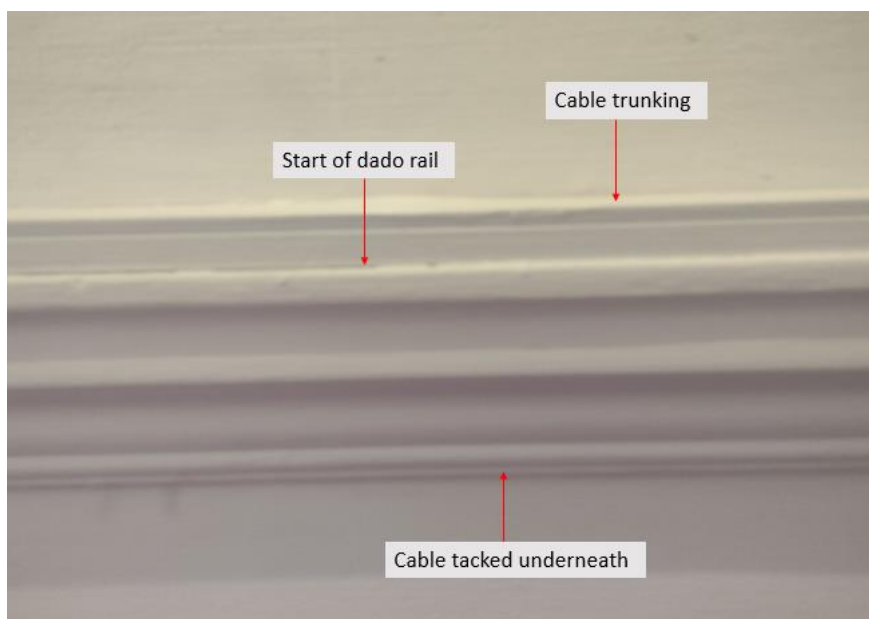


If the AP was attached to the ceiling or wall, it could be positioned alongside other equipment where possible such as the lights, smoke detector or emergency exit sign. (above left) This would help to minimise any aesthetic impact. An alternative location would be around the area above the door to the exhibition. (above right)

Cabling and trunking



The photo above left shows the first floor corridor at Cannon Hall. Current cabling routes follow the paths of door architraves and the dado rail. Trunking for cables exists and is located above the dado rail. It has been painted so that it appears part of the woodwork. (see photo below) Similar methods would be employed for new cabling.



Location of one AP inside key cupboard on first floor corridor

Exterior door of key cupboard on first floor



Inside of key cupboard on first floor



This AP could be mounted on the wall or ceiling in the cupboard. Visitors are not permitted in this area. However, mounting the AP in this location should provide Wifi coverage for the rooms and galleries on the first floor. (Green Bedroom, two Glass Galleries, Oak Bedroom, Little Explorers Gallery). Mounting the AP here would mean no disruption to the décor of any of the rooms, nor the removal of collections whilst the work is taking place.

It is proposed to locate an AP in cupboard or storeroom cupboard near the Reference Library in the staff only area of the Hall.

Door off first floor corridor in staff only area



The open door in the picture enables access from the first floor staff corridor to two rooms and a cupboard.

The door on the left leads to the Reference Library.

The door straight ahead leads to a store room which has a large cupboard.

There is also a cupboard behind the open door. (This would be the preferred AP location).

It is proposed that an AP is located in one of these cupboards. Interiors shown below.

Storeroom cupboard interior



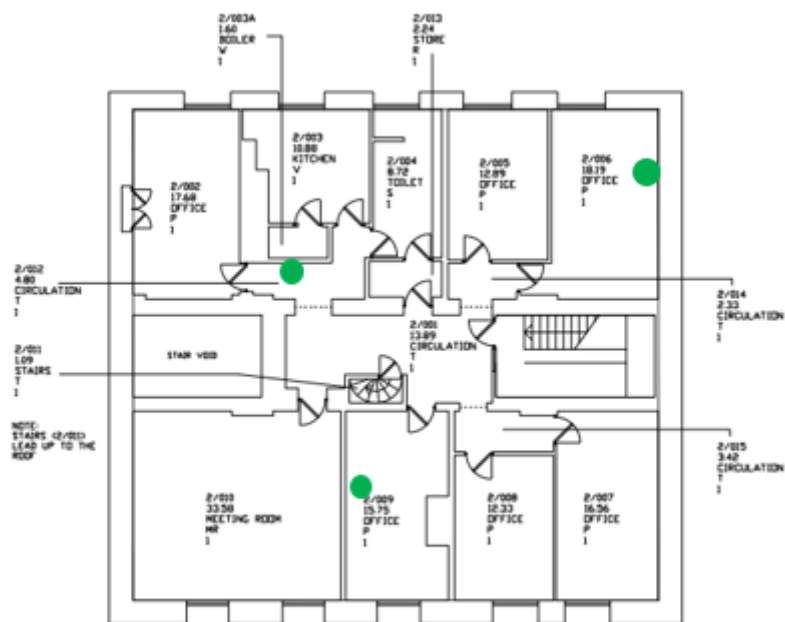
Interior of cupboard behind the open door



An AP in either of these locations should enable staff to undertake online research and catalogue items in the Research Library and the three other store rooms along and across this first floor corridor.

Second Floor Cannon Hall

Three APs are proposed for second floor



Green dots = APs

Breakout room (on wall or ceiling)



Office (on wall or ceiling)



Near kitchen (on wall or ceiling)



Volunteer Hub

The proposal is that cabling will run from the network switch in the Spencer Wing along the wall over to the Volunteer Hub. Cabling will be black, hidden from view wherever possible and fixed to mortar joints where needed. The AP in the Volunteer Hub could be located on the ceiling or wall on the second floor.

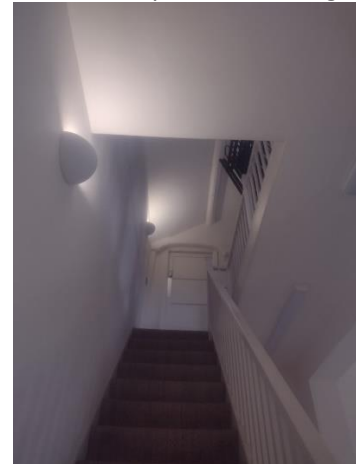
Courtyard view



Corner of Spencer Wing where cables will come from (above)

Interior views of proposed AP locations

An AP would be placed on either the ceiling of the upstairs room or at the top of the landing area.



Wifi would be beneficial inside the Volunteer Hub, not just for volunteers but also so the upper floor could potentially be used as a rentable meeting space or other commercial opportunity.

Side View



It is proposed that an external AP is placed on the wall near the existing light above the door of the Volunteer Hub. This will provide wifi access to the courtyard area, meaning that visitors can use the facility and be able to engage with interpretations in the vicinity.



This picture shows an example of how an AP (black shape) would look on the wall.



The photo on the left shows the front elevation of the Volunteer Hub. Cables can be seen attached over the ground floor windows.

Cabling will be run from the Volunteer Hub and along the wall of the tenanted cottages to the end of the building. Using the path of the existing cabling.



Proposed location of external AP and bridge link to North Range

This photo shows the Volunteer Hub to the left and the tenanted cottages. There is some cabling on the exterior of the cottages. The cottages are owned by Barnsley Council.



The location for the external AP and the bridge link is proposed for the top corner of the building to the right of the photo.

Bridge links have been selected following conversations with the Conservation Officer. The alternative, digging trenches to bury cables in the historic gardens and flowerbeds, could impact upon the archaeology of the site.

Example of how the AP and bridge link would look. It would not be obviously seen from ground level.

Walled Gardens

The bridge link, from the position shown in the photograph above, will send a signal to the bridge link on the North Range. This signal will then be sent to a receiving antenna on the garden wall near to the Pet Crematorium. It is proposed that an external AP is mounted alongside the bridge links to enable wifi within the Walled Gardens. Without the bridge links, the North Range, Walled Gardens and the Pet Crematorium will not be able to have wifi.

Wifi is needed in the North Range to maximise its potential as a commercial, revenue making proposition. Wifi is required at the Pet Crematorium to enable staff to be able to undertake administrative work onsite instead of having to travel between Cannon Hall and Barnsley Crematorium. Wifi in the Walled Garden will enhance the visitor experience and enable engagement with digital interpretations.

View across to North Range



The photo shows the view over to the North Range from the corner of the building and approximate location of the AP and bridge link.



This is a closer view of the North Range wall where the equipment will be mounted.



The black rectangles (near to the roof line) on this picture give an example of where the bridge links and the external AP could be sited.



The bracket, mentioned earlier in the document, will be mounted on the outside face of this wall. The bridge link would be attached to the bracket and positioned to receive the signal from the bridge link on the North Range. The Pet Crematorium is behind this wall.

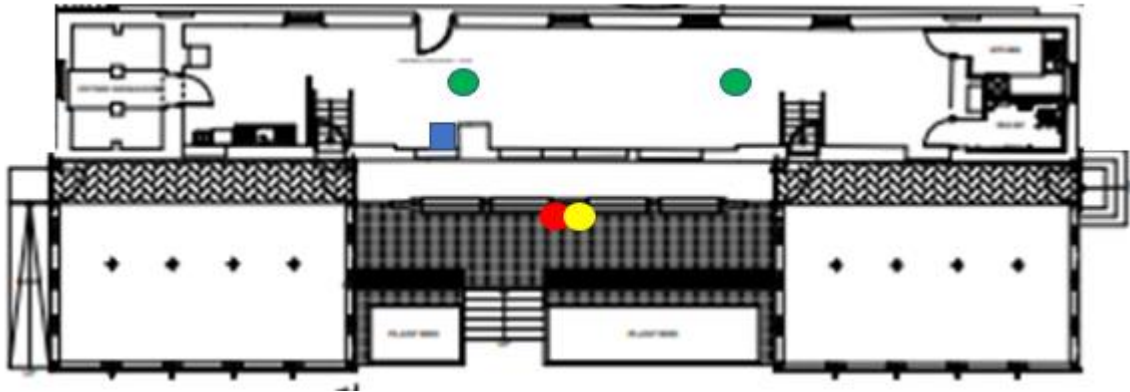


This is an example of the bridge link installed on the reverse of the wall. It would be wrapped in black and would be almost invisible against the backdrop of the evergreen vegetation.



This is the Pet Crematorium. This isn't a listed building. There will be an internal AP in the main area or office area of the building.

North Range



Green dot = APs

Blue square = network cabinet

Red and yellow dots = external AP and bridge links

Interior of North Range



The proposal is to install a network cabinet in the white cupboard to the bottom right of the photo. Shown as a blue square on the plan above

Two access points will be installed at either end of the North Range, either on the ceiling or beams, possibly above the grey rectangles so they are obscured from view. These are the green dots on the plan above.

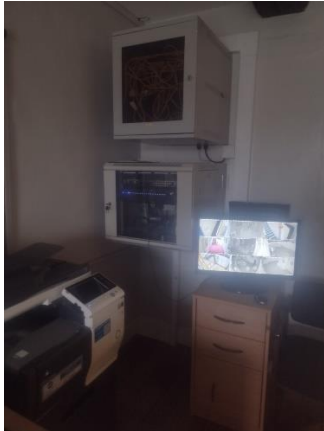
The yellow and red circles are the external equipment mounted on the exterior of the building as mentioned above.

This photo shows where the network cabinet will be housed in the North Range. The cupboard is large enough to completely disguise the network cabinet.



Network Cabinets and Switches

Network Cabinet in 2nd Floor Office



Network Cabinet in understairs cupboard in Spencer Wing



Example of Network Switch



The network switches will be upgraded. This will involve replacing existing equipment in the second floor office network cabinet and replacing the cabinet in the Spencer Wing cupboard. A network cabinet and switches will be installed in the North Range as detailed above.

Heritage Statement

Consultation has taken place with the Senior Conservation Officer and advice given has been fully incorporated into this submission.

Any external access points, cabling, point to point bridge technology will be attached to the mortar of the building(s) rather than to the stone/brickwork, or alternatively attached to a piece of wood and then this attached to the mortar if this would cause less disturbance to walls. The wood would be painted to be in keeping with the surrounding environment.

Anything which is attached to the buildings will be as unobtrusive as possible. Where able, the external fittings will be tucked under guttering and/or vinyl wrapped to disguise them, or be in a colour that blends in with the surroundings.

The park and gardens have listed status also. A point to point wireless bridge link solution will be used to link the North Range and the Pet Crematorium to the wifi network. This will avoid trenches being dug in flowerbeds and paths to lay cables which could damage the archaeology of the gardens and potentially damage the roots of historic trees.

Internal access points will be mounted inside cupboards or out of the line of sight, wherever possible. Where it is not possible to do this, access points can be wrapped to match with the decoration of the room, or placed near other existing wall mounted equipment, eg CCTV, exit signs etc. A colour chart is included in appendix A for reference of stock colours, however bespoke colour wraps can be created at a cost. Cables will follow existing routes where possible and any new trunking painted to match décor. Existing structured cabling will be utilised wherever possible. Where new structured cabling has to be installed it will comply to the Telecommunication Industry Standard (TIA) category 6 standard for unshielded twisted pair and be installed in dual surface mount outlets. The use of dual outlets will enable other system to be developed in the future without a repeat of the cable installation process, e.g. CCTV or Internet of Things (IoT) networks.

Consultation has taken place with the Collections and Exhibitions Manager, Visitor Services Manager and with the Museums Team to ensure that the collections can be kept safe throughout this work. Arrangements will be made with the Museums Team to move and/or protect artefacts or enlist the services of specialist removers, if needed, prior to work commencing.

The Group Leader for Heritage and Arts has been fully consulted and briefed about all aspects of this project.

North, the Council's IT contractor is fully appreciative of the protected status of the museum sites and has worked on similar projects for the British Museum, British Library and cities of York and Bath. North have stated that they are fully committed to working alongside the Conservation Officer and all relevant stakeholders in the undertaking of this project.

This project has given great consideration to the conservation of the Cannon Hall site. The proposed addition of wifi would not cause any significant degree of harm to the asset, either inside or outside. The wifi will enable improvements to the management, conservation and understanding of the site. It will improve the visitor and commercial offer which in turn will contribute to the conservation of the Hall, Park and Gardens.

Overall, we would suggest the proposal is justified and represents no harm to the heritage significance of the listed building(s) and is therefore in accordance with local and national planning policy.

Cannon Hall Listing Information

Heritage Statement – Cannon Hall

List Entry Number: 1151805

Date first listed: 25-Feb-1952

Statutory Address 1: CANNON HALL, BARK HOUSE LANE

Unless the List entry states otherwise, it includes both the structure itself and any object or structure fixed to it (whether inside or outside) as well as any object or structure within the curtilage of the building. For these purposes, to be included within the curtilage of the building, the object or structure must have formed part of the land since before 1st July 1948.

Location

Statutory Address: CANNON HALL, BARK HOUSE LANE

District: Barnsley (Metropolitan Authority)

Parish: Cawthorne

National Grid Reference: SE 27217 08332

Details SE 2708 CAWTHORNE BARK HOUSE LANE (North end, off Cawthorne)

9/3 Cannon Hall 25.2.52 GV II*

Large country house, now museum. Possibly late C17 in origin but heavily remodelled 1764-8 when single storey side wings were added. The C18 work by John Carr for John Spencer, the mason being John Marsden. The interior alterations in 1778 by John Carr i.e. the hall and dining room were stuccoed and the hall columns put in place. The side wings were heightened to two storeys in 1804 again by John Carr. The ballroom (north east wing) was added in 1890 to plans of Sir Walter Spencer Stanhope and the panelling and gallery completed by 1896. Restored 1965. Coursed dress sandstone with ashlar dressings. The symmetrical composition consists of a centre 3-storey block of 5 bays and slightly set back 2-storey side wings of 3 bays. Rusticated quoins. Sash windows in architrave surrounds, those to ground floor and 2nd floor of central block having pulvinated frieze and moulded cornice. The centre window has console brackets supporting the cornice and was once a doorway. The ground floor windows of the centre block extend to the ground and appear to have been altered and have sashes of 6 over 9 panes. Other sashes are mainly 12-pane, those to the shorter 2nd storey are of 6 panes and those to the first floor of the wings are of 3 over 6 panes. Moulded eaves cornice with balustraded parapet. Low, simple ashlar stacks set well back. The rear elevation is similar to the front but with a central, glazed Doric portico. The north-east wing projects to the left and is of 4 bays. Side elevations of the main house are of 3 bays.

Interior: The hall has Doric columns at rear with flanking pilasters. Good dog-leg stair at the rear of hall typical of the "York School". Excellent plaster ceiling in dining room of 1767, by James Henderson of York, has a centre rose, sinuous flowing foliage and musical instruments. The fireplace, of 1767, is of white and ochre marble with Ionic columns, full entablature and a central relief carving. The left room has an elaborate fireplace of 1767 from York with a C17 Dutch picture in the overmantle entitled "Still Life with Dead sane".

The house was owned by the Spencer and Spencer Stanhope families from the late C17 and was purchased by the County Borough of Barnsley in 1951. It was opened as a museum in 1957.

Listing NGR: SE2721708332

Legal - This building is listed under the Planning (Listed Buildings and Conservation Areas) Act 1990 as amended for its special architectural or historic interest.

The Park and Gardens at Cannon Hall are also grade II listed.

List Entry Number: 1001159 Date first listed: 01-Jun-1984

The extract from the listing information below refers to a gardener's cottage, which is now the Volunteer Hub.

KITCHEN GARDEN: Immediately east of Home Farm there is a garden of sub-rectangular shape walled with red brick. A gardener's house (listed grade II) is situated in the south-west corner. The south wall (listed grade II with the Camellia House) has two arched stone entrances with ornate iron gates on each side of the Camellia House. A third opening with a similar gate is positioned midway between the other two in the rear wall of the Camellia House. There are a number of glasshouses of C20 date within the garden. The inner walls are planted with mature espaliered fruit trees, mainly pears, which include some varieties introduced in the C18 and C19. The garden is shown on Woods' plan and it was constructed during the period which followed an agreement on the costs of the work which John Spencer records in his diary in April 1760.

North Range Glass House

The North Range Glasshouse lies within the north of the walled garden at Cannon Hall. It was previously a multi-phased purpose-built horticultural glasshouse dating, in its earliest phase, to 1807 with subsequent major alterations made in the early 19th and early 20th Centuries. The initial structure was built for Walter Spencer Stanhope (1775-1821). The rear brick sections of the North Range Glass House have recently been converted into a day training room. Listed building consent application 2020/1447 refers to this.

Recent Planning Applications for Cannon Hall Museum Park and Gardens

2022/0040	Application of vinyl signage to entrance to museum (Advertisement Consent)	Cannon Hall Museum, Bark House Lane, Cawthorne, Barnsley, S75 4AT	4 January 2022	Approve with Conditions	Final Decision
2022/0003	Application of vinyl signage to entrance to museum (Listed Building Consent)	Cannon Hall Museum, Bark House Lane, Cawthorne, Barnsley, S75 4AT	4 January 2022	Approve with Conditions	Final Decision
2021/1343	Rebuilding of leaning garden wall. Repairs to loose and unstable stonework of plunge pool (Listed Building Consent)	Cannon Hall Museum, Bark House Lane, Cawthorne, Barnsley, S75 4AT	3 November 2021	Approve with Conditions	Final Decision
2021/1155	Change of use of buildings to Class E retail and/or exhibition space	Cannon Hall Museum Park and Gardens, Bark House Lane, Cawthorne, Barnsley, S75 4AT	5 October 2021	Approve with Conditions	Final Decision
2021/1085	Discharge of condition 4 on planning application 2020/1414, and condition 5 on application 2020/1447 (both relating to landscape details for Conversion of rear brick section of North Range Glass House into day training room. Installation of two steel storage containers and oil tank in Slip Garden and the installation of external lighting)	Cannon Hall Museum, Bark House Lane, Cawthorne, Barnsley, S75 4AT	9 August 2021	Approve with Conditions	Final Decision
2020/1447	Conversion of rear brick section of North Range Glass House into day training room. Installation of two steel storage containers and oil tank in Slip Garden and the installation of external lighting. (Listed Building Consent)	Cannon Hall Museum, Bark House Lane, Cawthorne, Barnsley, S75 4AT	26 February 2021	Approve with Conditions	Final Decision
2020/1414	Conversion of rear brick section of North Range Glass House into day training room. Installation of two steel storage containers and oil tank in Slip Garden and the installation of external lighting.	Cannon Hall Museum, Bark House Lane, Cawthorne, Barnsley, S75 4AT	26 February 2021	Approve with Conditions	Final Decision
2020/1252	Discharge of condition 3 (materials) and 6 (biodiversity protection measures) of applications 2019/1429 and 2019/1457	Cannon Hall Museum, Bark House Lane, Cawthorne, Barnsley, S75 4AT	28 October 2020	Approve	Final Decision

Appendix A

Equipment information:

Cabling and Trunking

The cabling will be Leviton Category 6 (which meets the minimum requirement of BS 6701, Euroclass Cca-s1b,d2,a2 in accordance with BS EN 13501-6). The trunking and components will be Marshall Tufflex Plastic Mini Trunking and components. Marshall Tufflex Plastic conduit 20mm and components will also be used.

Example of Tufflex Mini Trunking (left) Marshall Tufflex Plastic conduit 20mm (right).



External AP

The Cisco Catalyst 9124AX Series outdoor access points are next-generation Wi-Fi 6 access points encased in a rugged and robust design that service providers and enterprises can easily deploy.



Figure 1.
Cisco Catalyst 9124AX Series Access points

Dimensions : W x L x H : 25.9cm x 23.3cm x 8.1 cm (excluding mounting bracket)

Internal AP

The Cisco Catalyst 9120AX Series Access Points are the next generation of enterprise access points. They are resilient, secure, and intelligent.



Access point (without mounting brackets): C9120AXI: 21.6cm x 21.6cm x 4.3 cm

Mounting bracket is invisible behind the AP and is attached to the wall/ceiling by four screws.

Point to point bridge link equipment

60 GHz cnWave V1000 Client Node



Dimensions

H x W x D: 16.9 cm x 10.0 cm x 5.4 cm

Fixing Bracket



- 4cm diameter pipe
- Galvanised steel, painted black (can be painted any colour)
- Wall plate 15 x 15 cm
- Stands off from wall 25cm
- Height from centre of mounting plate 22cm

Network Switches and Cabinets

The Cisco Catalyst 9300 Series is made up of nineteen modular uplink switch models and fourteen fixed uplink switch models.



Figure 1.
Cisco Catalyst 9300 Series switches

The network switches will be housed in network cabinets. Network cabinets are used to store the networking equipment and accessories.



Above is an example of a 600x600mm floor standing cabinet. Cabinets can also be wall mounted and come in different colours eg black. The cabinets lock to prevent tampering of the equipment.

Appendix B

Examples of Equipment Wrapping Colours

The equipment can be wrapped in the colours below or bespoke wraps can be made at additional cost.



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