SHAPING OUR FUTURE
‘Our challenge is to become a leading global university.’
Professor David Eastwood, Vice-Chancellor

Edgbaston Central Campus Development
Hybrid Planning Application
March 2012

Design and Access Statements

UNIVERSITY OF BIRMINGHAM
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The 21 projects, include six new buildings and one refurbishment, landscape and infrastructure works. The landscape projects include a significant new landscaped space at the heart of the campus, the ‘Green Heart’, while the infrastructure projects include new footpaths, campus roads and car parks and traffic calming measures. There are also proposals to demolish a number of buildings that are redundant or need to be removed to provide sites for new projects. All of the projects are on University campus land, with the exception of traffic calming proposals on Pritchatts Road that runs through the main campus, a new pedestrian crossing on Edgbaston Park Road and safety improvements to the junction of Edgbaston Park Road and Somerset Road.

In addition project 5, Grange Road Bridge and project 6, Student Residences and Sports Pavilion are partly on land that is currently owned by Birmingham City Council and Victoria Halls Ltd. However, this land is expected to pass into University ownership.
1a. New Sports Centre and Car Park
1b. Demolition of Gun Barrels Public House
1c. Demolition of Bungalow
1d. New Accessible Route from Chancellors Court to New Sports Centre
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- Athletics Track Demolished
- New Internal Road Link to Pritchatts Road
- Ground Works
15b. New Library Store
15c. New Surface Parking on Link Road
16a. New Running Track on Munrow Site
16b. New Sports Pavilion
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17. Pritchatts Road Improvements
18. Access Road to the Rear of Gisbert Kapp
20. Pritchatts Road Surface Car Park
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Figure 2: Hybrid Planning Application projects
The projects in the Hybrid Planning Application are submitted with different levels of detail (see Figure 3):

- Projects submitted with Full Details (shown in blue)
- Projects submitted in Outline (shown in yellow)
- Projects for demolition of a building, where the demolition is submitted with Full Details and redevelopment of the site is submitted in Outline only (shown in purple)

The Design and Access Statements for projects that are submitted in Outline include Parameters Plans which show the requirements for the development of the site, and also Indicative Designs which show how the site could be developed to meet those requirements.

The proposals for the Hybrid Planning Application projects have been developed to address a range of issues including urban design and heritage, landscape and ecology, transportation and flood risk. Separate reports provide full details on these issues.

### Landscaping and Trees

The Hybrid Application provides a coherent, integrated design approach to the Edgbaston Central Campus. A significant number of the projects involve creating landscaped spaces (in particular Project 10, the Green Heart) or enhancements to landscape, as a key aim is to improve the appearance of the campus.

Forming new sites for major projects, such as to the new Sports Centre and Library, involve the loss of trees and these will all be replaced on campus as part of the Hybrid Application Projects. Where possible, works have been designed to retain trees that have higher value. The table opposite sets out trees lost and gained on each of the Hybrid Application Projects. Where work is to be carried out near to trees that are to be retained, construction will be carried out to minimise impact on trees and roots. However, in these situations it is not possible to predict the impact on trees with complete certainty. Numbers of trees to be removed shown in the table opposite are therefore approximate.

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Hybrid Planning Application Project</th>
<th>Trees Removed</th>
<th>New Trees</th>
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<tbody>
<tr>
<td>1</td>
<td>Sports Centre and Route from Bristol Rd to Chancellors Court</td>
<td>64</td>
<td>27</td>
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<tr>
<td>2</td>
<td>Demolition of Sports Pavilion</td>
<td>1</td>
<td>4</td>
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<tr>
<td>3</td>
<td>Orange Road Car Park</td>
<td>1</td>
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</tr>
<tr>
<td>4</td>
<td>Student Services Hub</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>Orange Road Bridge</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>Orange Road Residences and Sports Pavilion</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>7</td>
<td>Demolition of Sports Hub</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>Demolition of Chem West and Research Unit</td>
<td>0</td>
<td>16</td>
</tr>
<tr>
<td>9</td>
<td>Demolition of Old Gym</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td>10</td>
<td>Green Heart Landscaping and temporary car park</td>
<td>51</td>
<td>160</td>
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<tr>
<td>11</td>
<td>Demolition of Library and Brick Store</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>12</td>
<td>Demolition of Sub Station 24</td>
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<tr>
<td>13</td>
<td>New Library</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>14</td>
<td>Demolition of Munrow Centre</td>
<td>53</td>
<td>0</td>
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<tr>
<td>15</td>
<td>Library Enabling Works</td>
<td>122</td>
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<td>16</td>
<td>New Running Track, Pavilion and car park</td>
<td>0</td>
<td>37</td>
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<tr>
<td>17</td>
<td>Pitchells Road Improvements</td>
<td>1</td>
<td>12</td>
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<tr>
<td>18</td>
<td>Access Road to Rear of Gisbert Kapp</td>
<td>17</td>
<td>2</td>
</tr>
<tr>
<td>19</td>
<td>Gisbert Kapp Car Park</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>20</td>
<td>Pitchells Road Car Park</td>
<td>25</td>
<td>63</td>
</tr>
<tr>
<td>21</td>
<td>Pedestrian and Cycle Route to the Vale</td>
<td>89</td>
<td>31</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>424</strong></td>
<td><strong>433</strong></td>
</tr>
</tbody>
</table>
This is a project for a new Sports Centre (1a) and new pedestrian route from Bristol Road to Chancellors Court (1d), including demolition of the Gun Barrels pub (1b) and bungalow (1c). The Design and Access Statement forms a separate document at Appendix A to the Hybrid Planning Application Design and Access Statement.

This is a project for the demolition of the Sports Pavilions and for the landscaping of the site. The Sports Pavilions are located on the south boundary of the campus on the south side of the University playing fields, close to the Bourn Brook and to the Bristol Road.

Use and Amount
The Sports Pavilions have an area of 452m2 GIA. They contain changing facilities for the sports pitches and groundsman’s facilities. The Hybrid Planning Application includes projects for a new Sports Centre at the east end of the playing fields and a new pavilion with sports changing rooms and associated facilities, a café and bar at the west end of the playing fields. Once these new buildings are completed the existing pavilions will be redundant.

The Sports Pavilions were built in the early 20th Century and consist of two linked single storey buildings with pitched roofs, and a single storey extension with a flat roof to the south. There are also a number of sheds and a large external water tank. The buildings are in a poor state of repair.

The Pavilions are within the setting of the listed Aston Webb Buildings and are adjacent to the wall on Bristol Road which forms part of the curtilage. They detract from this setting. The Pavilions block views of Aston Webb from Bristol Road. The unattractive rear of the Pavilions with the modern extension is prominent on Bristol Road.

Layout, Scale, Landscaping and Appearance
Following demolition, the site will be landscaped to form a continuation of the surrounding area adjoining the playing fields. One tree will be removed. The tree to be removed is QV Grade R, where removal is a priority due to poor condition. The arboricultural survey has classified the Quality & Value of this tree in accordance with BS5837:2005. Other existing trees will be retained and supplemented with additional trees. Tree species have been selected to match the existing trees with additional moisture loving species next to the Bourn Brook and a wet grass mix to enhance the local ecology. The remaining grass areas will be amenity grass as to tie in with the existing lawns along the boundary of the University.

The setting of Aston Webb will be improved and views to Aston Webb from Bristol Road will be enhanced. The University’s Heritage Assessment also concludes that ‘Demolition of the Sports Pavilion would allow the relationship between the listed Aston Webb buildings and the listed southern wall (also by Aston Webb) to be better appreciated.’

Access
Access to the area will be from existing paths and the existing gravel access road. The Environment Agency have requested that the existing gravel access road be retained to allow access to the Bourn Brook for their maintenance vehicles. The proposals include making good and a limited extension of the gravel path to form a turning area for the EA vehicles.
Project 2: Landscape Proposals
This project is submitted in Outline, with all Matters Reserved except access, for the use of the exiting Grange Road temporary car park as a permanent car park with the same number of car parking spaces. The Grange Road Car Park is located on the south boundary of the University’s campus, to the north west of the Grange Road campus entrance and adjacent to the Bourn Brook.

**Use, Amount and Access**

The existing car park has capacity for 89 cars and is accessed from within the campus via an internal road. It is intended that the new car park will also have capacity for 89 cars and will re-use the existing road access and connect to existing footpaths.

The car park is included in the University’s Transportation Strategy. The Hybrid Planning Application also includes a strategy for the consolidation and relocation of car parks to allow key sites to be freed for the new developments. The Grange Road Car Park is in an appropriate location for a car park as it is close to the sports pitches and southwest area of the campus.

**Layout, Scale, Landscaping and Appearance**

The site forms part of the setting of the listed Aston Webb Buildings and is seen in views from the Grange Road campus entrance and from the Selly Oak New Road. Landscaping is proposed as screening on all sides of the car park and within the car park. This will be an improvement on the current situation where the cars are seen in views of the Aston Webb buildings. The Project requires the removal of 1 tree which blocks the access into the car park, and this will be replaced as part of the Hybrid Planning Application elsewhere on campus. The arboricultural survey has classified the Quality & Value of this tree in accordance with BS5837:2005. The tree to be removed is QV Grade C - low retention priority. Lighting and street furniture will be selected to be appropriate to the setting.

The University’s Heritage Assessment concludes: “The potential impact of the surface car park on the historic environment concerns the setting of the Grade II listed Chamberlain Tower and the Grade II* listed Great Hall & Quadrant Range. Landscaping, particularly along the site’s southern edge, will minimise the car park’s impact on the setting of these buildings and will enhance views of them from Selly Oak New Road”.

**Flood Risk**

The Grange Road car park site is within flood zone 3 and will remain in flood zone 3 following the proposed development. The continuation of the use of the site as a car park, which is a low risk use, means that in the event of flooding to the site, the car park will be closed.
<table>
<thead>
<tr>
<th>Project</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Services Hub</strong>&lt;br&gt;Project 4: Full Details Submitted</td>
<td>This is a project for the new Student Services Hub in C Block of the Aston Webb Buildings. The Design and Access Statement forms a separate document at Appendix B to the Hybrid Planning Application Design and Access Statement. A separate Listed Building Consent Application will also be submitted.</td>
</tr>
<tr>
<td><strong>Grange Road Bridge</strong>&lt;br&gt;Project 5: Submitted in Outline</td>
<td>This project is submitted in Outline with all Matters Reserved for a new Road Bridge over the Bourn Brook, connecting an existing access point on Selly Oak New Road into the south west area of the campus. The Design and Access Statement forms a separate document at Appendix C to the Hybrid Planning Application Design and Access Statement.</td>
</tr>
<tr>
<td><strong>Student Residences and Sports Pavilion</strong>&lt;br&gt;Project 6: Submitted in Outline</td>
<td>This project is submitted in Outline with layout, landscape and appearance as Reserved Matters, for new Student Residences and a Sports Pavilion with a café and bar adjacent to the University’s Grange Road Gate on Selly Oak New Road. The Design and Access Statement forms a separate document at Appendix D to the Hybrid Planning Application Design and Access Statement.</td>
</tr>
</tbody>
</table>
Demolition of Terrace Huts
Project 7: Full Details Submitted

This project is for the demolition of the Terrace Huts and for the new use of the site as a car park for 69 cars. The Terrace Huts are located to the south west of the Aston Webb Buildings, at the top of a bank on the north side of the University playing fields.

Use and Amount
The Terrace Huts have an area of 1,321m² GIA. They are currently used as offices by the University’s Postal Services, Print Shop and the Institute of Archeology & Antiquities. They are long, concrete block, single storey buildings with flat roofs, erected as temporary buildings in 1948-9. After 60 years of continual use there are now well past their expected lifespan.

The Hybrid Planning Application includes a strategy for the consolidation and relocation of car parks to allow key sites to be freed for the new developments, in particular for the new Sports Centre. The site of the Terrace Huts is proposed for a car park as it is in an appropriate location close to academic buildings and is on the University Ring Road.

Layout, Scale, Landscaping and Appearance
The huts form part of the setting of the listed Aston Webb Buildings. Sitting just below Aston Webb, they significantly detract from this setting and in particular from views of these historic buildings from the south at the University’s Grange Road Gate entrance and from the Selly Oak New Road.

Following demolition, the site will be landscaped as a surface car park with hedges to provide screening on all sides. The proposed beech hedgerow is used on other parts of the campus, and so improves continuity of appearance across the estate. Existing trees are retained and supplemented with 8 additional trees: plane trees continue the existing avenue along a pedestrian route; lime trees screen the car park and are selected to match existing. Amenity grass mix will tie into the existing lawns with drifts of native Daffodils to create a colourful display as well as improving the ecological value of the area.

As the site is raised above the playing fields, the low hedges will provide effective screening to ensure that the cars are not visible in the key views from the south. The setting of Aston Webb will be improved and views to Aston Webb from SONR will be enhanced.

The University’s Heritage Assessment concludes that ‘The setting of the listed Webb and Bell buildings, particularly views of them, contributes greatly to their significance. The ‘temporary’ huts – which are now over sixty years old – detract from these buildings’ setting. Their removal will enhance these buildings’ setting and better reveal their significance.’

Access
Three disabled parking spaces are included in the car park close to the existing paths. There is a bank on the north side of the car park and existing steps in this location will be renewed.
Demolition of Chemistry West and Research Unit
Project 8: Full Details Submitted

This project is for the demolition of Chemistry West and the Chemical Engineering Research Unit to the south of Chemistry West, and for the landscaping of the site. Chemistry West is located on the main east-west route through the campus close to the University’s West Gate, which forms the gateway to the University from the University Station.

Use and Amount
Chemistry West has an area of 3,788m² GIA and the Store has an area of 220m² GIA.

Chemistry West is a concrete frame building with asbestos panels and plant visible on the roof, completed in 1973. It currently accommodates the School of Chemistry teaching laboratories and a research team. It consists of ground-floor office accommodation and Chemistry teaching laboratories on the first and second floors. The building is clad in asbestos which limits the options for external refurbishment and hampers changes to the internal layout. The building does not suit its current activity and is inefficient in terms of use of energy. The University’s strategy is to relocate the chemistry teaching laboratories back into the School’s main building.

Archaeology
The University’s Archaeological Technical Appraisal states that the footprint of the Metchley Roman Forts, a Scheduled Monument, is beneath the site of the Chemistry West Building and the area directly to the west. The Appraisal includes the following recommendations, which will be implemented when the works are carried out:

- to ensure the demolition of the existing Chemistry West Building (Project No.8), does not damage any possible archaeological remains; a demolition method statement is to be provided; an archaeological watching brief during the demolition of this building where it may impact upon below ground archaeological deposits (ie. removal of foundations);
- It should be noted, that whilst only interim landscaping is currently proposed following demolition of the existing Chemistry West Building, archaeological excavation (followed by post-excavation analysis and publication) may be required here in advance of any subsequent development of this particular site depending on the nature of the final proposals.

Layout, Scale, Landscaping and Appearance
Following demolition, the site will be landscaped to form a temporary ‘pocket’ garden for University students, staff and visitors. Existing trees on the north side of the site are retained and give the garden a mature character. The proposal builds on this by creating hard and soft landscape areas for seating and quiet contemplation. Existing shrub planting is enhanced with additional planting, bulbs and lime trees.

The site slopes steeply to the south, so the original concrete retaining wall will be retained and planted with climbing plants at the top, to allow them to cascade down. Ornamental cherry trees at the base of the wall will add seasonal interest.

The University’s Heritage Assessment states that ‘Whilst it (Chemistry West) can be seen in the same view as Chamberlain Tower – from outside Computer Sciences to the west the presence of the larger Haworth Building….between them means that it cannot be said to form an important part of the listed building’s setting.’ The Heritage Assessment concludes that ‘The demolition of Chemistry West will have a neutral impact on the setting of the Chamberlain Tower.’

Chemistry West is also seen in views on the main east-west route through the University, and its tired external appearance detracts from this view. The demolition of the building and new landscaping will enhance the view.

Access
Access to the main area of the temporary garden will be from the existing footpath to the east and will be at grade. The lower part of the garden is intended to be viewed rather than used, so there is only maintenance access from the lower level. Existing steps are retained on the west side of the site.

This site is adjacent to academic department buildings and on a main route in the campus, so it has been identified as a potential long-term development site, although there are currently no specific plans for the site. The proposed landscaping is therefore a temporary use of the site.
Project 7: Landscape Proposals

Indicative Plant Schedule

<table>
<thead>
<tr>
<th>Code</th>
<th>Species</th>
<th>Planting Position</th>
<th>Size</th>
<th>Weighted (m)</th>
<th>Height (m)</th>
<th>Classification</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>Prunus serrulata</td>
<td>Near the entrance</td>
<td>30</td>
<td>0.25</td>
<td>1.5</td>
<td>SM/4000</td>
<td>None, trenching only, additional plant type</td>
</tr>
<tr>
<td>X</td>
<td>V. nox</td>
<td>Near the entrance</td>
<td>30</td>
<td>0.25</td>
<td>1.5</td>
<td>SM/4000</td>
<td>Grade against wind, additional plant type</td>
</tr>
</tbody>
</table>

Note:
Cross Mix
Refer to: Xeriscape plans for Lakeview and Martin Hale School.

Area enclosed: Zoned areas delineated during demolition shall be maintained.

Area to be planted with Mature bushes.

Area to be made good after construction.

Project 7: Landscape Proposals
Demolition of Old Gymnasium  
Project 9: Full Details Submitted

This project is for the demolition of the Old Gym and for the landscaping of site. The Old Gym is located to the west of the Aston Webb Buildings on the University Ring Road. It is on a well used pedestrian route that runs between the Grange Road Gate and Staff House Square.

**Use and Amount**

The Old Gym has an area of 1,567m² GIA. It contains a traditional School-style wall-bar gymnasium and converted squash courts - now being used for a martial arts dojo and fitness suite - along with a small amount of offices. The Hybrid Planning Application includes a major project for a new Sports Centre. The sports activities currently carried out in the Old Gym will be transferred into functionally suitable spaces in the new Sports Centre, making the Old Gym redundant.

This site is adjacent to academic department buildings and close to the centre of the campus, so it has been identified as a potential long-term development site, although there are currently no specific plans for the site. The landscaping is therefore a temporary use of the site.

The Old Gym is a brick building constructed in 1939-41, with the upper storeys as a later addition. The building faces west and presents a ‘rear’ elevation to the busy public footpath. The building is on a steep site. It has problems related to maintenance and energy use and is prone to flooding in the lower ground floor area.

**Layout, Scale, Landscaping and Appearance**

Following demolition, the site will be landscaped with grass and 8 new trees to form a continuation of the surrounding area of landscaping. The landscape is sculpted to form a terraced space. Grass embankments create informal areas for seating and relaxation. It is intended that existing trees will be retained and the landscape enhanced with new planting with drifts of native Daffodils in the lawns.

The University’s Heritage Statement concludes that ‘Demolition of the Old gym will allow slightly more of the Chamberlain Tower to be seen than at present; on this basis, its demolition will not have an adverse impact on the setting of the Tower’.

**Access**

The site is intended to be an extension of the surrounding landscape. There are existing paths and steps on all sides. An existing foot path is extended to provide an additional route, with shallow steps, towards the centre of the campus. As the site slopes steeply, it is not possible to form this additional path without steps.
Green Heart Landscaping
Project 10a, b and c: Submitted in Outline

This project is submitted in Outline with all Matters Reserved. The Green Heart Project is a key element in the Hybrid Planning Application to achieve the University’s aspirations for a coherent campus with a strong focus and sense of place. The project consists of landscape works only. The Green Heart site is in the centre of the campus and includes University Square and the area to the north as far as the Metallurgy and Materials and Gisbert Kapp buildings.

The Green Heart Landscaping consists of three parts as it is likely that the project will be constructed in phases. 10a, Green Heart Landscaping – North covers the area between the Ring Road and the Metallurgy and Materials building, including the area around the listed lodges and gates. It excludes Pritchatts Road: proposals for traffic calming and landscape improvements on Pritchatts Road are covered in Project 17.

Project 10b, Green Heart Landscaping – South covers the area from the Ring Road to the Law building which forms the north arm of the Aston Webb buildings, including the site of the existing library. Project 10c is an application for a temporary car park, which is required so that the existing number of parking spaces on campus can be maintained throughout the development of the Hybrid Application projects.

Projects 10a and 10b are described first, with Project 10c (the temporary car park) at the end of this section.

The Green Heart Site – Projects 10a and 10b

The University is in the process of appointing a landscape consultant to carry out the design of the Green Heart. Given the size and importance of the area, which is intended to form a focus for the whole campus, it is essential that the design is of a very high quality indeed. The Hybrid Application includes design parameters for the Green Heart, but not design proposals, as these will be developed by the landscape consultant. The Parameters Plan shows the design requirements for the Green Heart. An Indicative Design is also included in this document, which explores the characteristics of the space and considers how the requirements of the Parameters Plan might be addressed. This indicative design will be superseded when the appointed landscape consultant produce their design.

Site and Context

The original, red brick Aston Webb Buildings and Chamberlain Clock Tower create an imposing character for the campus and overlook University Square which, together with an extensive area of land to the north, form the site for the proposed Green Heart project.

The Hybrid Planning Application includes proposals for a new main library and the demolition of the existing library, which is no longer fit for purpose. The demolition is covered in Project 11 of this document. Demolition of the existing building enables University Square to be extended north, creating a major new open space as a focus for the whole of the campus, and the opportunity to make significant improvements to the University’s public realm.

The athletics track is also proposed to be demolished and re-provided further to the west (see Projects 14 and 16 in the Hybrid planning Application). This creates the site for the new library and also a potential development site on the north west boundary of the Green Heart. The Green Heart landscape proposals have therefore to address the situation where this boundary will be open to the west, and the potential long term situation, when buildings may form a frontage on this side of the site.

The whole Green Heart area is approximately 365m x 135m. The south end includes the University Square, a well-used landscaped space of approximately 100m x 135m. It is assumed that the existing landscaping of University Square will generally be retained, although the proposals will include enhancements to complement proposals for the rest of the Green Heart area. The north part of the site has a poor appearance: the rear of the library and service yard is unattractive and there is a large car park next to the listed lodges and gates, which no longer perform their intended function as a formal
The site for the Green Heart is bordered by many of the University’s main buildings, including the listed Aston Webb buildings at the south end of the site and the listed 1960s Department of Metallurgy and Materials at the north end. Listed lodges and gates lie within the Green Heart site itself. Other University departments and social facilities flank the site, including the dramatic 1960s Muirhead Tower as well as the site of proposed new library.

Access
Vehicle routes through the Green Heart are Pritchatts Road, a public road, and the University Ring Road. All existing parking will ultimately be removed from the Green Heart area, once the temporary car park (Project 10c) is no longer required. The University’s Transport Assessment includes provision of additional car parks on campus as part of other projects in the Hybrid Application to ensure that the existing number of spaces is maintained.

The University’s key east-west pedestrian route, which connects East Gate with West Gate and University Station, runs through the Green Heart. Busy north-south pedestrian routes also run through the Green Heart area but are less clearly defined and hampered by movement across Pritchatts Road, the Ring Road and the steep bank at the rear of the existing library. There is a drop of approximately 8m across the site with flights of steep steps.

Demolitions
To create the Green Heart, it is necessary to demolish the existing Library and a small brick store. It is also necessary to remove 51 trees, almost all of which are on the steep bank to the rear of the existing campus Ring Road. This is because a new ramp will be formed in this location to provide disabled access for people moving north-south through the Green Heart. The arboricultural survey has classified the Quality & Value of the trees in accordance with BS5837:2005. Of the trees to be removed 5 are QV Grade B – moderate retention priority and have to be removed as they are located on the bank or where the new main north-south route will be formed. 46 of the trees to be removed are QV Grade C - low retention priority. All trees that are to be removed will be replaced with trees of equal or better quality as part of the Hybrid Planning Application Project.

Objectives
The key aims of the Green Heart project are to:

- create an impressive and delightful landscaped space as a focus for the whole campus
- create a series of linked spaces that can accommodate a range of university activities: places to relax, socialise and work; places for university ceremonies and events, and for art
- improve the sense of connection between the north and south areas of the campus
- improve “legibility” of the campus with clear pedestrian and cycle routes
- exploit the topography of the site
- improve access through the campus for wheelchairs and people with limited mobility
- reduce impact of traffic on the central area of the campus
- improve the setting of buildings in and around the Green Heart, including the listed buildings
- respond to the heritage of the campus, including listed buildings, and previous masterplans
- create a setting for long term development sites
- enhance the University’s public presence, particularly on Pritchatts Road
- enhance the ecology of the campus
- create a landscape that is robust, easy to maintain and environmentally sustainable
Project 10b: Green Heart Landscaping - North, Site Location Plan

KEY
- Planning Application Site Boundary
- University of Birmingham Land Ownership Boundary

VIEW 1

VIEW 2

VIEW 3

VIEW 4

VIEW 5

VIEW 6

VIEW 7

Project 10b: Photographs of existing
Parameters Plans
The four Parameters Plans for this project address different aspects of the Green Heart site. These should be read with the text below.

Parameters Plan - Structure of the Green Heart Space and Landscape
As the site is large, the landscape should be designed to define different zones and create some degree of enclosure to each. Each zone should have a landscape character that responds to the different area of the Green Heart. The east west routes and level changes provide a structure for the site forming three zones. (See Parameter Plan : Structure of the Green Heart Space):

1. University Square: the existing informal parkland landscape contrasts with the formality of Aston Webb, providing a well-used space crossed by many routes. There is a small level change at the north edge. Landscape enhancement: there is an expectation that the existing landscape will be retained and enhanced, particularly to address the new library.

2. Site between University Square and the Ring Road: proposals should provide a landscape responding to the New Library, Arts Building and Muirhead, creating connections between them. A terrace is to be provided on the east and south sides of the new library.

3. Area of the listed gates, lodges and Metallurgy and Materials Building: this area is very open to the west until long term development takes place on west side of Green Heart. The proposals should provide an interim landscape solution for the long term development site to the north of the new library. There are long views towards the canal, future athletics track and Medical School. A proposed new ramp at the south edge of the space will be a significant feature. The proposed landscape is to provide the lodges and gates with an appropriate setting and mediate between the lodges and Metallurgy and Materials. A view is to be formed through gates towards Chamberlain Tower: this may be a direct view or a view framed or filtered by planting. The University’s public presence is to be reinforced on Pritchatts Road, introducing links with the surrounding neighbourhood.

All Zones - the design for the Green Heart should:
• Respond to the axis set up by Aston Webb, the Chamberlain Clock Tower and the lodges
• Provide a setting for the listed Lodges and Gates which makes sense of their form and intended function – giving them an appropriate ‘role’ in the site
• Respond to the axis set up by Muirhead and Metallurgy and Materials
• Form connections to other spaces adjoining the Green Heart such as, Chancellor’s Court and Staff House Square.
• Identify sites where small pavilions could be located in the long term. (The potential pavilions do not form part of the Hybrid Planning Application)
• Enrich the ecology of the campus, extending wildlife corridors with connections to other areas of landscape
• Incorporate 160 min. new trees through the Green Heart to replace trees lost elsewhere as part of the Hybrid Application

Parameters Plans - Key Views
The Green Heart project will open up views between the north and south of the central campus area, including from Pritchatts Road towards the Aston Webb buildings and Chamberlain Tower, and views north towards the lodges and to Metallurgy and Materials. New views will be formed towards Muirhead and the site of the new library. The new landscape will provide a pleasant outlook from the buildings around the Green Heart and improve their setting. As described above, until development comes forward on the site to the north west of the Green Heart, there will be long views towards the new athletics track, canal, Medical School and hospital site beyond: the landscape design could either embrace these views or provide landscape screening along this boundary.
Parameters Plans – Key Routes

Clear pedestrian routes are crucial for moving around the large campus, and also help to create a sense of place. The design should incorporate:

- A north south pedestrian route on the east side of the Green Heart connecting the route to the east of Metallurgy and Materials to Chancellors Court.
- A north south footpath on the west side of the Green Heart connecting the existing route to the west of Metallurgy and Materials with the new library and extending to Chancellors Court.
- Enhance existing east west routes:
  - Pritchatts Road (to be traffic calmed and landscaped as part of Project 17),
  - Ring Road North — route to be enhanced with a pedestrian-friendly design
  - Pedestrian route to south of existing Library
  - Pedestrian route to north of Aston Webb
- A new ramp suitable for disabled access to cross the bank north of the existing library site - 4.8m drop
- Provide paths/hard surfaces to serve all building entrances in the Green Heart area.

Indicative Design for the Green Heart - Precedents

At the largest dimension, the Green Heart is 365m x 135m forming a significant space at the heart of the campus. There are many precedents for this scale of space, including at other Universities - the plans to the left show a comparison between the University of Birmingham and the University of South Carolina. Traditionally such spaces have been landscaped as parkland with trees and grass, but the aspiration for Birmingham is to create a rich variety of landscape designs within the Green Heart, to accommodate different activities (relaxation, work, quiet contemplate, play, etc) and to enhance the appearance and the ecology of the site.

Precedents for the variety of landscaping that the University wishes to create are also shown opposite, including groves of trees, flower gardens, shaped earth banks, water features, avenues and the potential to incorporate pavilions and art works.
Stockholm - a grove of trees with informal seating

Orpheus at Boughton - © Jonathan Lovie - formal grass banks create a sense of place

Broughton Hall - courtesy of Nicola Browne - informal gardens and pavilions

Heveningham Hall - courtesy of Kim Wilkie - grass banks create an ampitheatre

Millennium Forest - © Syogo Oizumi / TMF / Dan Pearson Studio - planting to enrich ecology

“Wall that Went for a Walk” by Andy Goldsworthy - courtesy of Dick Watson - art and landscape

Project 10a, b: Indicative Design Precedents
1. Indicative sketch of view from lodges gates towards Chamberlain Lock Tower
2. Indicative sketch of view north from University Square
3. Indicative sketch of terrace in front of library
4. Indicative sketch of ramp in Green Heart
5. Indicative sketch of grove of trees in Green Heart
Indicative Design
The Indicative Design plan shows how the site might be sub-divided by landscape to meet the requirements of the Parameters Plans, forming different landscape characters for the three zones. In the south zone University Square retains its existing parkland landscape character. In the central zone the area between the new library and Muirhead is planted with a grove of trees on a grid, incorporating informal open spaces for seating and, potentially, small pavilions. A hard surface under the trees allows people to wander freely between the different buildings on either side of the Green Heart. The grid of trees forms a block with a clear edge which defines the three areas of the Green Heart. The north zone is shown with a patchwork of gardens extending into the open areas to the east and west of the Green Heart. The view from the lodges to Chamberlain Tower is reinstated and loosely defined by an avenue of trees in the north zone, and gaps in the trees in the middle zone, creating an enticing view into the campus from Pritchatts Road.

Heritage Assessment
The University’s Heritage Assessment states: ‘Demolition of the Library will once again open up the University site from Pritchatts Road. Whilst it is not intended to reinstate the Avenue, the setting of the Webb & Bell buildings will undoubtedly be enhanced, and their significance better revealed. Demolition of the Library will also render Buckland & Haywood’s design intentions more legible, giving their Gates and Lodges greater meaning and enhancing their significance.

A landscape architect will be appointed to design the Green Heart, but it is intended that it be divided into three zones, one relating to the Webb & Bell buildings, one relating to the new Library and the Muirhead Tower, and one relating to the North Gates and Lodges and the Metallurgy & Materials Building.

The Green Heart project has the potential to significantly enhance the setting of the various listed buildings that relate to it, most particularly the Buckland and Haywood Gates and Lodge.’
**Project 10c, Temporary Car Park**
This project is submitted in Outline with all Matters Reserved, for a temporary car park off Pritchatts Road to the north of Muirhead Tower. The Hybrid Planning Application includes a strategy for the consolidation and relocation of car parks to allow key sites to be freed for the new developments, which seeks to ensure that the existing number of parking spaces is maintained through the development. The temporary car park is required to achieve this continuity of numbers. The car park will be required for a period of approximately 4 years from the start of construction on the Pritchatts Road car park.

The site is currently used as a temporary contractor's compound and will be landscaped as part of the Green Heart area once the temporary car park is removed.

**Use, Amount and Access**
The proposed temporary car park will have capacity for 65 cars and is accessed directly from Pritchatts Road. The car park is in an appropriate location close to University buildings and the centre of the campus. It is included in the University's Transportation Strategy.

**Layout, Scale, Landscaping and Appearance**
The site forms part of the setting of the listed lodges and gates and the listed Metallurgy and Materials building. Temporary landscaping is proposed as screening on the west side of the car park. This will be an improvement on the current situation where the contractor's compound has an untidy appearance.

This project is for the demolition of the existing library and a small brick store. The library is located on the north side of University Square. The brick store is located to the east of University Centre in University Square.

The Hybrid Planning Application includes a project for a new University Library to the west of the existing library. Once this new building is completed the existing library will be redundant. The two sites lie in the area which is proposed as a major new landscape space at the heart of the campus. The future proposals for the sites are covered by a separate project within the Hybrid Application named 'Green Heart Landscaping' (Project 10a and 10b).

**Use and Amount**
The main University library has an area of 16,333m2 GIA over seven floors and is occupied by Library Services and IT Services. The brick store has an area of 133m2 GIA and houses redundant services equipment. The store has planting and small trees on its roof.

**History of the Existing Library**
The University’s Heritage Assessment describes the development of the existing library as follows:

- The existing University Library was designed by Verner O. Rees whose initial proposals were illustrated in the Vice-Chancellor’s Report for 1948. However, Rees had to re-design the building in 1952, in part because of concerns about cost, but also in response to the operational requirements of a new librarian. Construction began in 1956, and the first phase – T-shaped on plan with a two-storey administration block to the east – was completed in 1959. It was always envisaged that the Library would be completed with an east-west range across its northern end, and with a further linking range to the west balancing the administration block to the east. In the event, however, the successor practice to Verner Rees, Laurence & Mitchell – Alan Mitchell & Partners – designed an east-west range occupying only the western half of the earmarked plot, together with a single-storey infill on the western side (completed in 1971/2). Prior to erection of the Library, its site had been occupied by a tree-lined Avenue, designed at the end of the 1920s by William Haywood, extending from the original Webb & Bell University buildings to an entrance on Pritchatts Road flanked by Lodges. Rees’s decision to place the Library across the Avenue was a controversial one from the outset, in part because it blocked views of the Webb & Bell buildings. It also changed the setting of the North Gates and Lodges on Pritchatts Road; as noted by Cheesewright these ended up marking a ‘grand approach to a rather minor car park’. Whilst Casson & Conder were subsequently supportive of the truncation of the ‘monumental conception’ of Haywood’s Avenue, the Library has undeniably served as a barrier between the northern and southern parts of the campus, and continues to complicate north-south pedestrian circulation."

- The original part of the library building completed in 1959 forms a ‘T’ shape on plan. As described above, it was not built to the architect’s original design, which was to have had a tower book-stack and a single large reading room. This part of the existing library is in red brick with piers and a recessed band as a cornice, all sitting on a heavy brick podium.

- The first extension as realised, completed in c. 1971 broke from the anticipated plan and departed from the style of the original building. The extension does not occupy the whole northern end of the site and in consequence, the northern end of the library has an ‘unfinished’ appearance. It is an eight-storey, concrete-framed block, its north and south elevations comprising mostly glazing between closely-spaced concrete piers. Those parts not taken up by windows are finished with render. The extension is deteriorating rapidly, and the whole building’s appearance and environmental performance is now very tired.
The extension on the west side of the library fills the entire space between the original building and the first extension, instead of forming a linking block enclosing an open court as originally planned. This single storey extension with flat roofs and a clerestory was originally intended to be roofed with a series of copper-clad pyramids, but appears to have been a victim of cost-cutting.

At the same time, a new single-storey building was inserted into the eastern court of the library, and mezzanine galleries were introduced into the double-height reading rooms of the original building.

In 1978/9 there was a major reorganisation of the library in an effort to make best use of the space, including reconfiguration of ground floor and entrance hall. In 1993, the library underwent a refurbishment with further modifications of the entrance together with numerous changes and internal relocations.

Architecturally, the original building has been much extended and altered. The south façade of the 1959 building is plain and rather austere, but has presence. However the appearance of the later parts of the building on the other elevations is unattractive.

Site and Context
The library forms the north side of University Square facing the Aston Webb buildings, on a site at the heart of the University. The library forms part of the enclosure of University Square, but in doing so it also forms a barrier on the north side of the Square which effectively cuts off the north part of the campus from the centre.

The library is raised on a plinth (views 1, 2, 9) facing University Square, with the main building and entrance set back, so that the library presents a blank wall to the Square at ground floor level and the main entrance is not visible from the Square. Surprisingly, the rooms that overlook the Square at higher level are designed with low ceilings for book storage rather than study areas and the opportunity for people to enjoy views into Square is missed.

University Needs and the Existing Building
A university library is perhaps the single most important building in the campus, providing a core facility for students and staff, it also represents the university to the wider world. It is essential that the University of Birmingham has a library that can provide the facilities and service required for study and research in the 21st century, and a building that is appropriate to the standing of the University.

The University has identified the need for the library operation to be developed to accommodate:

• Changes in information and technology
• The efficient consolidation and re-organisation of physical collections, taking account of issues around access: high-use collections and noise levels.
• Provision of space for purposes other than holding physical collections and user service areas, particularly private and group study and learning.
• Proposal to provide a new Cultural Gateway exhibition space which will be open to the wider community.
The existing building presents a series of problems in terms of its operation and the condition of the building itself, which significantly undermine the experience of students and others who use it. These are set out below.

**Operational problems:**
- The building has an inefficient and confusing internal layout, with long circulation routes through narrow floor plates and limited connections between different floor levels. This could not be resolved without demolition of approximately 50% of the building.
- Many areas have low ceiling heights making spaces oppressive
- The original library was designed as a book repository with minimal study spaces. Study spaces inserted into existing spaces on lightweight mezzanine decks have poor access, low ceiling heights and inefficient layouts.
- Limited study and IT spaces and inadequate capacity for students at important times of year
- Lack of focus or ‘heart’ to the building
- Staff offices located within the basement with limited natural light and views
- Operational inefficiencies due to the internal form of the building
- Lift provision is insufficient
- WC provision is insufficient
- No wheelchair access to the front entrance due to the raised terrace
- The raised terrace houses mains services (sub-station, district heating subway and plant rooms), making it difficult to improve wheelchair access to the main entrance or introduce lively uses to the ground floor at University Square
- Difficult to utilise best locations with views over University Square for people (rather than books) due to low ceilings in upper levels of the south wing which contain the book stacks without study spaces

**Problems with the building fabric:**
- Service infrastructure requires total replacement - services are beyond life expectancy
- Maintenance is difficult and costs are high
- Poor environmental conditions - too hot in summer and too cold in winter
- High energy costs and increasing carbon footprint
- No provision for the distribution of services through the building: power, data, ventilation and pipe work
- Building’s external fabric is poor - including single glazing, concrete cladding and un-insulated masonry
- The façade suffers from thermal cold bridging and damp penetration
- Asbestos present through the building

**Option Studies**

The University carried out a Feasibility Study in 2009 into the refurbishment of the existing library to address failing infrastructure and operational difficulties. It became apparent that the cost of the work would be high and the programme would be long, with major logistical problems to decant book stock and phase work so that the library could remain in operation.

A further feasibility study was carried out in January 2011 which compared options for new build on two alternative sites and an option to refurbish the existing library that included partial demolition and some new build. Two sites were identified for a new library building, both at the centre of the campus - one to the west and one to the north of the existing library. A parallel study looked at the implications for the wider campus of each option.
Reasons for Demolition
Both of the feasibility studies into the potential to refurbish the existing building demonstrated that the problems associated with the existing building are so extensive that refurbishment is not an economic option and could only deliver an imperfect scheme. In addition refurbishment presents major problems for construction as the library has to remain in use throughout the process.

Refurbishment would require a minimum of 5 phases over a 5 to 6 year period to allow library staff to maintain a robust service meeting the needs of students. It has been demonstrated at other Universities that phasing puts a major strain on resources and leads to increased costs and can affect the decision of prospective students to apply to the university. The library is the main focus for student study in the run up to examinations at two key periods in the academic year, and construction works within the building will inevitably cause disturbance, ultimately putting exam results, the success of the students and the reputation of the University at risk.

Alternative Sites for a New Library
Both of new build options would allow the existing library to continue to operate until the new building is finished. Both options could provide the facilities, infrastructure and standard of construction that will meet the current and future needs of the University, and both present the opportunity to design a building at the centre of the campus that responds to the historic setting, and embodies the status of this key University building.

However, the site to the north of the existing library presents a major disadvantage as it would require demolition of the existing lodges and gates on Pritchatts Road (which are now listed). In addition, in this location the new building could potentially form another barrier between the north and south sides of the campus - as the existing library does.

The site to the west of the existing library presents other significant advantages over the site to the north: it allows University Square to be extended as an open landscaped space right through the centre of the campus, forming a single focus for all of the University buildings. Important pedestrian routes to the north of the campus can be accommodated within the space, which will also encompass Pritchatts Road, creating views from the public road into the campus, including those to the historic Aston Webb buildings and Chamberlain Tower. The setting of the listed lodges and gates, and the listed Metallurgy and Materials building can be improved. The landscaping of the Green Heart can be designed to re-provide some of the sense of enclosure that the existing library currently provides on the north side of University Square. Another advantage of the proposed site is that the new library will be adjacent to University Centre and Staff House, which provide social, catering and retail facilities, forming a hub of activity for all students and staff.

Conclusion of Feasibility Studies for the Library
The conclusion of the University's feasibility studies was a clear preference to provide a new library on the site to the west of the existing building, and to demolish the existing library, as this building would then be redundant, and to landscape the site as part of the new Green Heart centre to the campus.

Retaining the existing library building next to the new library is not an option, as it would prevent the creation of the Green Heart and compromise the setting of the new library. The problems with the form and fabric of the existing building, set out above, and the consequent cost of refurbishment would remain, and the University does not have a need for this additional space.

Brick Store
This Hybrid Application includes the demolition of the brick store, as it is immediately south of the site for the new library, sitting between it and University Centre. If it remained it would impede the design and development of the library site, detracting from the appearance of the new building and its relationship to University Centre.
Layout, Scale, Landscaping and Appearance

Following demolition, the site of the library and store will be redeveloped to form part of the new Green Heart landscape space at the heart of the campus. The future proposals for the sites are covered by a submission in Outline, ‘Green Heart Landscaping’ (Project 10a, b), within the Hybrid Application.

Seven trees will be lost as part of the demolition of the library and store. The arboricultural survey has classified the Quality & Value of these trees in accordance with BS5837:2005. Of the trees to be removed 3 are QV Grade B - moderate retention priority and have to be removed as they are very close to the library and cannot be retained. The other 4 trees on the roof of the brick store are QV Grade C - low retention priority. All trees that are to be removed will be replaced with trees of equal or better quality as part of the Hybrid Planning Application Project.

The existing buildings form part of the setting of the Aston Webb buildings and Chamberlain Tower, and also of the lodges and gates on Pritchatts Road. The University’s Heritage Assessment has assessed the impact of the proposed demolitions and concludes: ‘Demolition of the Library will once again open up the University site so that the Webb & Bell buildings can be seen from Pritchatts Road. Whilst it is not intended to reinstate Haywood’s Avenue, the Library’s site will be landscaped as the University’s ‘Green Heart’. As a consequence, the setting of the Webb & Bell buildings will be enhanced, and their significance better revealed. Demolition of the Library will also render Buckland & Haywood’s design intentions more legible, giving their Gates and Lodges greater meaning and enhancing their significance.’

Access and Parking

The demolitions do not alter access arrangements for any other building.

Demolition of Sub-Station 24
Project 12: Full Details Submitted

This project is for the demolition of sub-station 24 which lies on the Ring Road to the north of University Centre. The site is needed to create the site for the proposed new library and new link road between University Road West and Pritchatts Road. The future proposals for the site are covered by separate submissions in Outline within the Hybrid Application named ‘Library Enabling Works’ (Project 15) and ‘New Main Campus Library’ (Project 13).

Plans of the existing site are included with Project 15 in this document.

Use and Amount

Sub-station 24 has an area of 125m² GIA. It is a modern brick building, built in 1990s/2000s with a pitched roof.

Layout, Scale, Landscaping and Appearance

Following demolition, the site will form part of the new library and new link road sites.

The University’s Heritage Appraisal states that the demolition of the sub-station will have no impact on the settings of any of the designated heritage assets on the site.
This project is submitted in Outline with all Matters Reserved for a new Main Campus Library by University Square. The Design and Access Statement forms a separate document at Appendix E to the Hybrid Planning application.

This project is for the demolition of the Munrow Sports Centre, three adjacent tennis courts and a car park. The Munrow Sports Centre is located on the west side of the central campus area, close to the Birmingham and Worcester canal.

The Hybrid Planning Application includes projects for a new Sports Centre and a new Sports Pavilion on the south boundary of the campus (projects 1 and 6). Once these new buildings are completed the existing Munrow Sports Centre will be redundant.

The first phase was built in brick and concrete, and includes roofs with concrete vaults and a large tiled roof terrace. The later additions took no account of the original design and are utilitarian in character. They present a range of forms and materials including, brick, profiled steel and render, with curved, pitched and flat roofs. As a result, the building now has a confusing and incoherent appearance with a jumble of forms and materials and the original design concept is quite lost.

A number of elements in the building are approaching the end of their useful life and would require significant investment to improve. Some of the main operational problems relate to the provision of changing rooms, showers and toilets, the plumbing and drinking water supplies and temperature and environmental control.

The original building was designed for a University of 7,500 students. Even with later additions, the current building is too small to accommodate the needs of approximately 34,000 student & staff. The University also has a long tradition of welcoming members of the community, and the currently community membership of 1,100 is limited by lack of space. Examples of severely cramped/inadequate facilities include the Fitness Suite, Swimming Pool and Sports Hall.

The University has carried out an appraisal on the feasibility of extending the existing building. The University’s future needs include a 50m pool and a 3-court sports hall, which are both large, fixed-dimension spaces. Other requirements are for smaller or more flexible units. The area around the current Munrow Centre cannot accommodate these large facilities with the existing building retained. The existing swimming pool
would also have to be demolished to accommodate expansion so that the University would be without a pool for a minimum of two academic years, with a serious negative impact on sport at the University.

The Munrow Centre is now nearly 50 years old and has come to end of its useful life particularly relative to the rising expectations for sports & leisure in the 21st century. The design and structure of the original the building and the capacity of the site is such that, even if the University invested in a major refurbishment, it would remain an inadequate and unsuitable building for modern sporting needs.

The business plan for sport requires indoor facilities to be located on a single site to achieve overall efficiency. The current site is therefore unsuitable for sport’s needs and the University has decided that a new site should be developed for a new Sports Centre. Building on a new site will allow the current facility to remain in use until the new building is ready. The Munrow Centre’s current location is also poor in terms of visibility and accessibility, especially for community users and the new site has been chosen with a good public presence and connection to the community

Layout, Scale, Landscaping and Appearance
Following demolition, the site will be redeveloped with a new athletics track, sports pavilion and car park. The future use is covered by a separate Outline submission within this hybrid application: Replacement Development on Site of Munrow Sports Centre (Project 16).

The Munrow Centre forms part of a view towards Chamberlain Tower from the north-west, where the Tower can be seen poking above the Munrow Sports Centre building. The University’s Heritage Assessment has assessed the impact of the demolition on this view and concludes that ‘the Munrow Centre does not make an important contribution to its setting. On this basis, the demolition of the Munrow Sports Centre will have a neutral impact on the setting of the Chamberlain Tower.’
It is estimated that 53 trees will be lost as part of the demolition of the Munrow, tennis courts and car park. The arboricultural survey has classified the Quality & Value of these trees in accordance with BS5837:2005. Of the trees to be removed 16 are QV Grade B - moderate retention priority and have to be removed as they are very close to the west side of the building which forms a retaining wall to the roots and so cannot be retained. 37 of the trees to be removed are Grade C - low retention priority. A significant number of the Grade C are trees which form a wind break to the tennis courts. All trees that are to be removed will be replaced with trees of equal or better quality as part of the Hybrid Planning Application Project.
Project 14: Photos of Existing
Projects 15a, b and c are submitted in Outline with all Matters Reserved except access where the new link road joins Pritchatts Road. Project 15a is enabling works to form the site for the new library. It includes the demolition of the athletics track, forming a new link road which connects University Road West to Pritchatts Road and ground works to form the new levels associated with these items. Project 15b is a new library store and Project 15c is a new surface car park on the east side of the link road.

In this stage of the campus development, it is assumed that the Munrow Sports Centre will still be in use. The Library Enabling Works proposals are therefore designed to co-ordinate with the existing building, specifically in relation to ground levels.

Demolition of the Athletics Track
The athletics track has to be demolished as it lies under the site of the new library. This site was chosen for the new library as it has a prominent position at the centre of the campus. Further details on the selection of the site for the new library project are given in Project 11. A new athletics track will be provided on the site of the Munrow Centre, which is proposed to be demolished once the new Sports Centre is completed. See Project 16a and b.

Ground Works
Generally ground levels in the central area of the campus fall to the south. A plateau was created for the existing athletics track, with the north end dug into the site and the south end well above ground level. However, the new link road has to tie into existing levels at the north and south ends of the site, and fall at a steady rate. The existing ground levels have to be remodeled accordingly. Proposed levels will be designed to equalize the quantity of cut and fill so that no earth has to be brought to site or removed from it. The changes to the levels and the need to clear sites for the new library, link road and new athletics track will result in the loss of approximately 122 trees. The arboricultural survey has classified the Quality & Value of these trees in accordance with BS5837:2005. Of the trees to be removed 5 are QV Grade A - high retention priority and have to be removed as they are located on the site of the new Library, Athletics Track and the new Link Road, 43 are QV Grade B - moderate retention priority and have to be removed as they are located on the site of the new Library, and 74 are QV Grade C - low retention priority. All trees that are to be removed will be replaced with trees of equal or better quality. A minimum of 53 trees will be replaced on this site, with the remainder elsewhere on the campus as part of the Hybrid Application Project.

Parameters Plans
The Parameters Plans set out constraints for the site, in particular levels which have to co-ordinate with the existing campus roads and Pritchatts Road, and with the Munrow Centre, pending demolition. There are also parameters plans for the library store: the building is set at a lower level to reduce its visual impact and to maintain long views from the centre of the campus across the store to the west.

Link Road
The new link road connects University Road West to Pritchatts Road allowing a section of existing road, which is under the new library site, to be removed. The link road allows traffic to travel between the campus Ring Road and Pritchatts Road without crossing the Green Heart. It also provides access to the new sites on either side of the link road: the Library Store, athletics track, car parks and future developments. Planting is included along the road.

Surface Car Park
The Surface Car Park on the east side of the new link road provides 62 car parking spaces, and is included in the Transport Assessment and Parking Strategy. It contributes to the parking provision which ensures that the University maintains the existing number of parking spaces. The car park will include planting. Access is from the link road.
Projects 16a, b and c are submitted in Outline with all Matters Reserved. Project 16a is the new athletics track, Project 16b is a new sports pavilion for the track and Project 16c is a new surface car park on the west side of the link road. The site is bounded by the canal to the west, by University Road West to the south and by the new link road to the east. The canal is a wildlife corridor.

**Athletics Track**

In this stage of the campus development, the Munrow Sports Centre will have been demolished. Work to build the new athletics track will include adjusting levels in the area of the Munrow. The track will be floodlit.

The site will be roughly level with the canal, providing the opportunity to improve links between the campus and the canal from the area to the west of the track. There will be good views to the track from the railway with the Chamberlain Tower in the distance, and from the link road and Green Heart. Access to the track is from the link road.

No trees are proposed to be removed as part of this project, but a minimum of 37 new trees will be planted. The proposals will aim to limit any ecological impact particularly in relation to the wildlife corridor along the canal. The track floodlighting will be designed to limit impact on bats.

**Sports Pavilion**

The Pavilion provides changing facilities for the athletics track and has a floor area of 300m2 GIA. It is positioned at the west end of the road that leads east from the link road into the Green Heart, so that it will be seen on the approach from the Green Heart. It is important that this view from the Green Heart is addressed in the design of the Pavilion.

**Surface Car Park**

The Surface Car Park on the west side of the new link road provides 58 car parking spaces, and is included in the Transport Assessment and Parking Strategy. It contributes to the parking provision which ensures that the University maintains the existing number of parking spaces. The car park will include planting. Access is from the link road.

**Parameters Plans**

The Parameters Plans set out constraints for the site, in particular levels which have to co-ordinate with the existing campus roads and the canal, and views into the new site which should be considered in the design. There is a separate Parameters Plan and Section for the new pavilion which includes the requirement to consider views to the site from the Green Heart.

**Indicative Design**

Indicative layout and views show how the site might be developed.
NOTE: Site location shown on the current map, for the state of site development prior to commencement of works see Block Plan

NOTE: Site after demolition of Munrow Sports Centre, Tennis Courts and Car Park, with indicative ground levels after Library Enabling Works Implementation (For demolition of Munrow see Project 14)

KEY
- Planning Application Site Boundary
- University of Birmingham Land Ownership Boundary
- No trees lost
Project 16abc: Sports Pavilion Parameters Plan

Project 16abc: Sports Pavilion Parameters Section A-A
Pritchatts Road Improvement
Project 17: Submitted in Outline

This project is submitted in Outline with all Matters Reserved for traffic calming and landscape improvements to the section of Pritchatts Road which runs through the central area of the University between the railway / canal bridge and Edgbaston Park Road. The works are included in the Transport Strategy which supports the Hybrid Planning Application.

Existing Site and Context

Pritchatts Road is a public road. The proposals are for the section of the road that runs through the University campus. The central section of this stretch will be within the proposed Green Heart, which is intended to be a high quality landscaped area, forming an extended focus for the campus. Pedestrian movement is largely north-south across the road, with students moving between different areas of the campus, as well as along the road. There are views from the road of the Chamberlain Tower. Pritchatts Road also forms part of the setting of the listed lodges and gates and the listed Metallurgy and Materials building. Pritchatts Road is not in the Edgbaston Conservation Area, but adjoins it at Edgbaston Park Road.

Pritchatts Road has the effect of dividing the south part of the campus from the north, partly because it is a relatively busy public through-road that can be difficult for pedestrians to cross, but also because of the character of the buildings and landscaping along the road. The buildings are very varied in appearance and scale (this is particularly evident where the listed Metallurgy and Materials building faces the listed lodges and gates across the road) and are set back from the road and are not aligned with it. The existing landscaping gives the road a suburban character, which does not provide an appropriate sense of place for the surrounding University campus. Many of the surfaces and items of street furniture and street lighting are in need of upgrading.

The aim of the project is to introduce traffic calming measures so that the road becomes more pedestrian-friendly, and to improve the appearance of the road so that it is integrated with the landscaping of the campus. Both moves will help to reduce the effect that the road has of dividing the north and south of the campus.

Indicative Proposals

The central section of the road forms part of the proposed Green Heart, so the design will be developed simultaneously with the Green Heart project (Project 10).

Initial indicative proposals are for traffic calming measures including a raised table along the central section of the road with higher quality finishes, such as block or paving, to the road and pavements. The existing signalized pedestrian crossing will be widened as it forms part of the main north-south pedestrian route through the campus. A second crossing will be introduced on the west side of Metallurgy and Materials. Improvements to the appearance of the road include removal of car parking bays, remodeling/reduction of bell-mouth access points along the road, removal of timber barriers on verges, provision of new kerbs, street lights and street furniture and a general tidying of surfaces and signage.

One tree will be lost where the new link road joins Pritchatts Road. The arboricultural survey has classified the Quality & Value of this tree in accordance with BS5837:2005. The tree to be removed is QV Grade B - moderate retention priority. It is proposed that a minimum of 12 new trees will be planted: the road has an informal avenue of trees which would be retained and enhanced, in coordination with the more detailed proposals for the Green Heart.

The proposed demolition of the library will open views towards Aston Webb and the Chamberlain Tower from Pritchatts Road giving the University an enhanced public presence. The proposed improvements to the road will provide an appropriate setting for the University.

The University’s Heritage Assessment states: ‘The potential impacts on the historic environment of the proposed Pritchatts Road traffic calming/management measures concern the settings of the Grade II listed North Gates and Lodges and the Grade II listed Metallurgy & Materials Building, as well as, to a lesser degree, the setting of the Edgbaston Conservation Area where Pritchatts Road forms its southern boundary (from just to the east of the bridges over the canal and railway westwards).

The impacts of the proposals on the significance of these heritage assets is less than substantial; indeed, in some respects, they will actually better reveal their significance. Any adverse impacts should be set against the public benefit of the Edgbaston Campus Development as a whole.’
KEY

Planning Application Site Boundary

Area covered by works; traffic calming and landscape enhancements to provide 'pedestrian friendly' environment. Footpaths to be renewed as appropriate. Street lighting, street furniture and signage to be upgraded as appropriate.

Location of main pedestrian crossings

Key pedestrian routes

Area within Campus Green Heart; parking to be removed, design to be co-ordinated with proposals for Green Heart and provide an appropriate setting for listed buildings.

Listed buildings, gates and walls

Min 7 trees to be planted.
Central section of carriageway in high quality paving material.
Car parking bays removed through central 'Green Heart' area.

Wide signalised pedestrian/cycle crossing aligns to main north-south pedestrian route.
High quality paving to central section of road.

Long term aspiration for new footbridge adjacent to existing narrow bridge.

Gateway feature, change in road surfacing colour and road markings to denote extent of 20mph zone.

Shallow gradient raised table with blue light friendly ramp. Road narrows to 6.0m through central 'Green Heart' area.

Conservation kerbs to grass verges. Existing timber barriers removed.

Speed limit roundels to be provided at regular intervals along carriageway.

Introduction of new trees to enhance existing avenue of trees.

Existing Trees
Proposed Trees
Removed Trees
High quality paving to roads and pavements through 'Green Heart' area.
Existing Tarmac to roads and pavements replaced where necessary.
Existing grass verges retained and enhanced.
'Green Heart' Area

Key

Project 17: Indicative Proposed Plan
This project is submitted in Outline, with all Matters Reserved except access, for a new road to the north side of the Gisbert Kapp and Metallurgy and Materials buildings. The site is adjacent to the listed Metallurgy and Materials buildings and to the Edgbaston Conservation Area.

**Indicative Proposals**

The new road will connect an existing service road which runs around Metallurgy and Materials from the west and a service road which runs around the east and north sides of Gisbert Kapp. Both roads have existing connections to Pritchatts Road so that the new road will form a loop and will improve access to the buildings in this area.

In the area behind Gisbert Kapp it will be necessary to re-form an existing retaining wall and approximately 17 trees may be lost because their roots will be affected by the work. The arboricultural survey has classified the Quality & Value of these trees in accordance with BS5837:2005. Of the trees to be removed 3 are QV Grade B - moderate retention priority and have to be removed as they are very close to the retaining wall between the access road and the Library Store and so cannot be retained. 13 of the trees to be removed are QV Grade C - low retention priority. All trees that are to be removed will be replaced with trees of equal or better quality.

It is proposed that a minimum of 4 trees will be replaced on the site with the remainder replaced within this site or elsewhere on campus as part of the Hybrid Application.

The project also includes measures to improve the appearance of the road, particularly in the area behind Metallurgy and Materials where the proposed pedestrian and cycle path to the Vale (Project 21) includes the opening up and enhancement of the garden to the rear of Meadowcroft. The area behind Metallurgy and Materials will be enhanced to create a sense of place and be less utilitarian. Car parking spaces along the road are removed and, in the area behind Metallurgy and Materials, traffic calming measures are proposed. Lost car parking spaces will be replaced elsewhere on campus as part of the Parking Strategy and this Hybrid Application. The new road is paved in blockwork to match the paved area by the IRC Net Shape Laboratory. An area of landscaping with new trees is proposed adjacent to Metallurgy and Materials with a new foot and cycle path connecting the route to the Vale to Elms Road.

The proposals will enhance the setting of the Metallurgy and Materials buildings and the Conservation Area.

The Heritage Assessment states that ‘The extension of the access road will have a negligible impact on the setting of the Listed Metallurgy and Materials Building, and on views into and out of the Edgbaston Conservation Area.’
<table>
<thead>
<tr>
<th>Gisbert Kapp Car Park</th>
<th>Pritchatts Road Car Park</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project 19 : Submitted in Outline</td>
<td>Project 20 : Full Details Submitted</td>
</tr>
</tbody>
</table>

This project is submitted in Outline for a new multi-storey car park off Pritchatts Road with all Matters Reserved, except access. The Design and Access Statement forms a separate document at Appendix F to the Hybrid Planning application.

This project is for the extension of the existing surface car park at Pritchatts Road. The Design and Access Statement forms a separate document at Appendix G to the Hybrid Planning application.
Pedestrian and Cycle Route to the Vale
Project 21 : Full Details Submitted

This project is for a new pedestrian and cycle route between Pritchatts Road and the south end of the Vale Student Village. A separate application for Conservation Area Consent in relation to openings to be made in relevant hedges, walls and fences will be submitted. The proposed route is on University campus land, but also includes proposals to improve the crossing at the junction of Somerset Road and Edgbaston Park Road, and a new pedestrian crossing with signals on Edgbaston Park Road.

Site and Context
The aim is to provide a safe and pleasant pedestrian and cycle route within the campus as an alternative to Edgbaston Park Road. The route would improve safety by obviating the need for large numbers of students to use Edgbaston Park Road which has narrow pavements.

The majority of the proposed route is in the Conservation Area. It passes three listed buildings: Metallurgy and Materials, The Elms children’s nursery and the Cottage at 37 Edgbaston Park Road (which is part of the Elms Plant Nurseries). It runs by a SLINC pond in the Elms Children’s Nursery garden. The north end of the path enters the Vale which is a Registered Park and Garden.

Proposals
The route has been set out to minimise impact on trees, ecology and heritage and has been planned in detail with the University’s ecology and heritage consultants, and in consultation with Birmingham City Council Officers, including Planning, Ecology, Conservation and Landscape Officers. The position of the route is adjusted in relation to specific trees, structures and other features. The University’s Transport Consultants have advised on transport issues where the route crosses vehicle accesses and roads and the University’s Ecology Consultant has advised on measures for mitigation of impact on ecology and measures for enhancement of ecology.
Project 21: Proposed Plan

Section 1

DATA CENTRE
EDGEBSTONE PARK ROAD

Section 2

DATA CENTRE
EDGEBSTONE PARK ROAD

Section 3

DATA CENTRE
EDGEBSTONE PARK ROAD

Section 4

DATA CENTRE
EDGEBSTONE PARK ROAD

Section 5

DATA CENTRE
EDGEBSTONE PARK ROAD

**Key**
- **Proposed Path**
- **Conservation Area**
- **Application Boundary**
- **Proposed Fence with Planting**
- **Proposed Green Heart**
- **Listed Building**
- **Existing Brick Paved Path**
- **Blockwork**
- **Tarmac**
- **Tactile Paving**

**Notations**
- *New Bollard*
- *New Bin*
- *New Lighting Column*
- *New Tree*
- *Existing tree to be removed*
- *Existing tree to be retained*
- *New Opening formed in existing fence and hedge*
- *New Opening formed in existing fence and hedge*
- *New Opening formed in existing fence and hedge*

**Instructions**
- *DO NOT SCALE DRAWINGS, ALL DIMENSIONS TO BE CHECKED ON SITE. ERRORS TO BE REPORTED IMMEDIATELY TO THE ARCHITECT*
- *1:1000 @ A2*
- *ISSUED FOR PLANNING*
- *9 HENEAGE STREET, SPITALFIELDS, LONDON. E1 5LJ*
View 1: Colonnade at 169 Edgware Road

View 2: Towards garden south of Data Centre

View 3: Garden south of Data Centre

View 4: Data Centre threefold beyond

View 5: Towards Weather Station

View 6: Link bridge at Elms Plant Nursery

View 7: Elms Children’s Nursery garden and fenced pond

View 8: Elms Children’s Nursery car park

View 9: Somerset Road looking towards Elms Children’s Nursery

View 10: Somerset Road looking towards Park Grange

View 11: Park Grange Garden

View 12: The Vale

View 13: Listed Elms Children’s Nursery
Project 21: Proposed Lighting, Fences and Street Furniture

Project 21: Bench - Escrafat Tramet bench and seat

Project 21: Light standards - Indal WRTL Stela Square

Project 21: 1.8m tall full board timber fence to screen the route from the Nursery garden and car park to be enhanced with planting

Project 21: Steel fence on boundary of Park Grange

Project 21: Bonded gravel surface to path

University of Birmingham standard signage

Insert: Bollard DW Windsor Hereford black
Materials, Lighting, Street Furniture and Signage

The path is very simple in appearance with minimal street furniture and signage, in keeping with the pleasant green character of this part of the campus. The path is 5m wide (2.5m for pedestrians and 2.5m for cycles) where possible, but narrows to 4m for about half of its length where necessary to provide space near trees and critical features. The path will generally be bonded gravel, however, near tree roots a ‘no dig’ form of construction is proposed and the path will be formed as a raised ‘board walk’ with a non slip surface finish. Lighting is provided by 4m columns spaced at approximately 21m intervals with an array of LED lamps, which are low energy, have low UV output and can also be directed, so that light is focused on the path with minimal spill to minimise impact on wildlife. Images of street furniture and lighting proposed are shown opposite. They have been selected to provide an informal character.

Landscape

The landscape along the route is designed to reinforce the existing character areas and to enhance ecology. Mown grass margins are proposed to either side of the path to allow good visibility and security. These will be planted with swathes of native daffodils. Plants cut back to form the path will regenerate and will continue to be maintained to allow views into and from the path.

The existing Forest Garden in the Children’s Nursery is relocated to the south side of the grounds. Planting screens the route from the garden areas to provide a woodland setting to the forest classroom. The pond, a SLINC, is relocated to the garden south of the Data Centre.

The garden to the south of the Data Centre is treated as an ecological area with new planting, the relocated pond and the removal of the large poplar trees. The flowering grassland mixes provide habitat areas. Material collected from the original SLINC will be compensated for by the creation of new resources of at least equal value. The project includes proposals to improve the condition of the areas of woodland on the route of the path, and this includes clearing some trees because they are in poor condition or to thin undermanaged areas on the advice of the University and BCC ecologists and arboriculturalists. Approximately 69 trees are proposed to be felled either because they lie on the route of the path or to improve the condition of woodland. The arboricultural survey has classified the Quality & Value of these trees in accordance with BS5837:2005. Of the trees to be removed 42 are QV Grade B – moderate retention priority, 23 trees to be removed are QV Grade C – low retention priority, 3 trees to be removed are QV Grade R, where removal is a priority due to poor condition. Other trees lie close to the path and the construction for the path in these locations will be designed to minimise impact on tree roots. Course of the Route was designed to minimise the loss of trees and impact on trees of higher retention priority Grades. All trees that are to be removed will be replaced with trees of equal or better quality. A minimum of 32 trees will be replaced in the vicinity of the new path and the remainder will be replaced within other areas of new landscaping that form part of the Hybrid Application for the campus.

Ecology Enhancements

For the southern part of the route, several ecological enhancements are proposed. A pond will be constructed to the east of the path which will planted with a range of native marginal species and a wet grassland seed mix sown adjacent the pond. Wood from felled trees and shrubs will be used to create dead wood piles for invertebrates. The existing non-native Cherry-laurel hedge will be removed with native hedgerow planted nearby along with additional tree species such as Pedunculate Oak and Ash. Two areas of flowering meadow mix will also be included to allow wildflowers to flower and seed to provide additional food sources for invertebrates and birds.

The lighting design must be suitable to provide a safe environment for the pathway users. However, it has sought to reduce light spill in areas where potential bat roosts occur.

SLINC Pond

The path crosses a pond in the garden of The Elms Nursery which is designated as a SLINC. The pond has been evaluated using Birmingham and Black Country Local Sites Partnership criteria with the conclusion that the pond no longer merits SLINC designation due to its limited ecological value. The new path requires part of the SLINC pond to be removed. The path takes the only practical route through the garden of the Elms Nursery, running as close to Edgbaston Park Road as is feasible without losing significant numbers of trees. If the route were moved to the west, more of the Nursery garden would be lost and the path would have to cut through banks which would again result in the loss of more trees.

Planning policy states that the loss of a SLINC is acceptable provided that losses can be compensated for by the creation of new resources of at least equal value. The University has considered three options for the pond: total removal of the pond; realignment of the path adjacent to its current location; and removal of the pond with a new pond being formed in the garden to the south of the Data Centre, at the south end of the new route. In its present position the pond is not an asset to the nursery because of the safety issues (it has been enclosed with two rows of fences). The University’s preferred option is therefore to create a new wildlife pond in the garden to the south of the Data Centre and to infill the pond at Elms Road so that this area can become part of the useable nursery garden.
Bats
Lighting to the path has been selected to provide a safe level of light for pedestrians and cyclists, but also to minimise impact on bats that potentially roost nearby.

The following pages provide an introduction to the site and proposed route. They are followed by a detailed description of each section of the route.

Heritage Assessment
The proposals do not remove any listed buildings or walls. The Heritage Assessment states: "the need for a safe route to the Vale has long been recognised. As early as 1958, Casson & Conder proposed the construction of a pathway for cyclists and pedestrians, which would have passed through a tunnel under Somerset Road and up through the middle of the 'Park Grange' garden.

The pathway now proposed will affect the settings of the three listed buildings it will pass, but in no case will it cause substantial harm to these buildings' significance. Indeed, it will arguably allow the buildings to be better appreciated. Similarly, the proposed pathway will not cause substantial harm to either the Edgbaston Conservation Area or The Vale registered landscape. Whilst the pathway, lighting and limited removal of trees will have a minor adverse impact on the historic grain of the landscape of the conservation area, this should – in accordance with PPS5 policy HE9.4 – be set against the very substantial benefits (primarily that of improved safety) that the route will bring to the University’s student population and to the wider local community."

A separate planning application for Conservation Area Consent will be submitted for relevant works within the Conservation Area.

Traffic, Roads and Access
The primary motivation for this project is to improve safety for pedestrians and cyclists travelling between the Vale and the centre of the Campus by providing an alternative to the narrow pavement on the busy Edgbaston Park Road. The proposals include alterations to the priority crossing on Somerset Road and a new signal controlled crossing on Edgbaston Park Road serving the Tennis Court Residences.

The path crosses vehicle entrances into the Groundsman's compound and the children's nursery but it should be noted that the existing pedestrian route on Edgbaston Park Road also crosses these entrances. Bollards are provided on the new path to slow cyclists at the junction of the path and access roads. Further details are provided in the Traffic Assessment which forms part of the Hybrid Planning Application.

Parking
The car park in the children's nursery is re-positioned, but the existing number of parking spaces is maintained.

Personal safety is also a key consideration for the design of the path. Emergency call points are included on the route which is well lit. The existing path which connects to Edgbaston Park Road is also retained as an alternative route at night. The safety of children in the nursery is also addressed with a fence providing screening to the nursery garden and car park.
Green Heart to Metallurgy & Materials Building

The Green heart landscape project (Project 10) includes paths running north south through the centre of the campus up to the listed Metallurgy and materials building. The Route to the Vale connects to one of these routes which continues along the east side of Metallurgy and Materials. This side of the building already has a path running under a colonnade. The new path will be formed as an extension of this path on the east side, in brick or block to match existing.
New fence and planting along west side of the path on boundary of Park Grange.

Existing Car Park relocated to west of path, existing no. of spaces maintained to accommodate route in front of listed building. 1 tree lost and replanted.

Width is reduced to 4 meters. Where the route passes vallets of 21 meters with low UV emissions to reduce the

wider (2.5m for pedestrians and 2.5m for cycles), apart close to trees, construction of path will be designed to

reduce damage to tree roots. Low lighting standards

Pavement remodelled/reduced to accommodate larger traffic island.

Existing traffic island replaced by larger island to improve safety.

New opening formed in existing steel fence and planting pedestrians and new cycle route formed parallel to this

Number of trees lost to be replaced = 69.

New opening formed in hedge and existing dwarf wall to be enhanced and managed to improve ecology.

Forest school relocated to site of filled in pond.

2 trees removed and replanted in this stretch.

Existing stone wall to listed building retained.

Route crosses groundsman’s access.

Path utilises existing stone gateway.

Route to the Vale.

Existing gazebo and hut relocated.

Path utilises existing footpath.

Bollards to slow cyclists.

Benches provided.
Garden south of the Data Centre to the Data Centre
The garden between Metallurgy & Materials and the Data Centre is opened up to provide a ‘wild’ garden with a new wildlife pond. The fence and screen of trees to the north and west sides of the garden are removed.

A separate application for Conservation Area Consent will be submitted for the removal of the chain fence forming the north-west and south-west boundary of the garden to the south of the Data Centre. The fence will be removed along with Cherry Laurel hedge (which is ecologically poor) and poplar trees on these boundaries. New trees will be planted in their place. A short section of a wooden boarded/concrete post fence on the north east side of the garden by Data Centre will also be removed.
New fence and planting along west side of the path on boundary of Park Grange.

Chain link fence, Cherry Laurel hedge and row of poplars removed at disused garden to create an arrival 'square' between Met & Mat and the Data Centre.

Path splits to avoid significant yew tree and end of existing stone dwarf wall to accommodate route in front of listed building. 1 tree lost and replanted.

New opening formed in existing fence and hedge.

The path is designed to minimise the impact on trees, levels adjusted to deal with existing dwarf wall, drop of approx 500mm provided along length of path, positions to be agreed.

Low lighting standards (4 meters high) are provided along the path at inter.

Gates moved back from road to allow nursery to be secured at night.

Route to the Vale.

Route narrowed at approach to groundsman's access road.

New opening formed in hedge and existing dwarf wall to be enhanced and managed to improve ecology.

Forest school relocated to site of filled in pond.

Existing traffic island replaced by larger island to improve safety.

Bollards to slow cyclists.

Benches provided.

Pond relocated.

Undermanaged woodland area of Park Grange garden.

Key

- Proposed Path
- Conservation Area
- Application Boundary
- Proposed Fence with Planting
- Proposed Green Heart
- Listed Building
- Existing Brick Paved Path
- Through Colonnade of Met & Mat
- Blockwork
- Tarmac
- Tactile Paving

- Pond
- Dry Pond
- New Lighting Column
- New Bench
- New Bin
- New Panic Button
- New Bollard
- New tree
- Existing tree to be retained
- Existing tree to be removed

NOTE; DO NOT SCALE DRAWINGS, ALL DIMENSIONS TO BE CHECKED ON SITE. ERRORS TO BE REPORTED IMMEDIATELY TO THE ARCHITECT.
Data Centre to Elms Road Plant Nurseries

At the Data Centre the new path briefly re-joins the existing campus path (which leads to Edgbaston Park Road) before running north parallel to Edgbaston Park Road across an open area of grass. Several new trees are proposed to the east of the path in this area.
New fence and planting along west side of the path on boundary of Park Grange

Chain link fence, Cherry Laurel hedge and row of poplars removed at disused garden to create an arrival 'square' between Met & Mat and the Data Centre

Existing modern garden remodelled, (including fencing to match existing)

vals of 21 meters with low UV emissions to reduce the

wide (2.5m for pedestrians and 2.5m for cycles), apart

close to trees, construction of path will be designed to

Levels adjusted to deal with existing dwarf wall, drop of approx 500mm

Undergrowth cleared either side of Gas Substation to improve visibility

reduce damage to tree roots. Low lighting standards

Gates moved back from road to allow nursery to be secured at night

Pavement remodelled/reduced to accommodate larger traffic island

impact on bats. CCTV, panic alarms buttons to be

ecology and listed buildings. The path is 5 meters

enable utiliation of existing pedestrian route under Met and Mat

Path Merges with existing colonnade under Met and Mat for

Route narrowed at approach to groundsman's access road

New opening formed in hedge and existing dwarf wall

New opening formed in existing fence and hedge

New opening formed in existing fence and hedge

New opening formed in existing fence and hedge

Site drainage to be improved. 8 trees lost here

New path merges with existing path at the Vale

Forest school relocated to site of filled in pond

20 trees removed and replanted in this stretch

9 trees removed and replanted in this stretch

Path passes through overgrown area behind

Existing stone wall to listed building retained

Bollards to slow cyclists

Bollards to slow cyclists

Bollards to slow cyclists

Bollards to slow cyclists

Bollards to slow cyclists

SM CORRECTION OF TREES TO MATCH SURVEYS, REMOVAL OF SOME LABELS

09/03/12 SM

ISSUED FOR PLANNING
Elms Road Plant Nurseries to Elms Road Day Nursery

The path runs to the east of the University weather station, then cuts through a low bank before crossing the access road to the groundsman’s facility, the Elms Road (plant) Nursery. The path then crosses in front of the listed Cottage at 37 Edgbaston Park Road and into the grounds of the listed Elms Road Children’s Nursery. The garden of the cottage will be reinstated in keeping with the listed building.
New fence and planting along west side of the path on boundary of Park Grange.

Existing Car Park relocated to west of path, existing no. of spaces maintained.

Garden to create an arrival 'square' between Met & Mat and the Data Centre.

Width is reduced to 4 meters. Where the route passes vals of 21 meters with low UV emissions to reduce the

Width (2.5m for pedestrians and 2.5m for cycles), apart

Provided along length of path, positions to be agreed.

Reduce damage to tree roots. Low lighting standards

(4 meters high) are provided along the path at inter-

Wooden fence and planting removed so that path is contiguous with

From in discrete areas (as shown below) where the

Ecology and listed buildings. The path is 5 meters

Cyclists and pedestrians swap sides at road crossing in order to

Enable utiliation of existing pedestrian route under Met and Mat

Path Merges with existing colonnade under Met and Mat for

New signal controlled crossing to Tennis Court Residences

Undermanaged woodland area of Park Grange garden

Pedestrians and new cycle route formed parallel to this

Number of trees lost to be replaced = 69.

New opening formed in hedge and existing dwarf wall

New opening formed in existing fence and hedge

New opening formed in existing fence and hedge

New opening formed in existing fence and hedge

New opening formed in existing fence and hedge

To be enhanced and managed to improve ecology

Site drainage to be improved. 8 trees lost here

20 trees removed and replanted in this stretch

Vice Chancellor's garden, avoiding key trees

Path passes through overgrown area behind

Existing stone wall to listed building retained

Path utilises existing stone gateway

Bollards to slow cyclists

Bollards to slow cyclists

Bollards to slow cyclists

Bollards to slow cyclists

Bollards to slow cyclists

Benches provided

Benches provided

Pond relocated

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REGARDING THE COMPLETENESS, ACCURACY OR FITNESS FOR USE OF COMPUTER

IN ITS PLOTTED, GRAPHIC REPRESENTATION ONLY.

EDGBASTON PARK ROAD

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9 HENEAGE STREET, SPITALFIELDS, LONDON. E1 5LJ

Project 21: Route to the Vale

Hybrid Planning Application

Edgbaston Central Campus Development

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9 HENEAGE STREET, SPITALFIELDS, LONDON. E1 5LJ

Hybrid Planning Application

Edgbaston Central Campus Development

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Elm's Road Day Nursery to Somerset Road

As the path enters the nursery grounds it crosses a SLINC pond which it is proposed will be relocated to the garden between Metallurgy & Materials and the Data Centre (see further details below), then across the Nursery car park and onto Somerset Road through an existing stone arch. By the nursery garden and car park a new 1.8m close boarded fence with planting will be installed to maintain privacy for the nursery. A double row of fences enclosing the pond will be removed and the area of the pond relandscaped as part of the nursery garden.

The crossing at the junction of Somerset Road and Edgbaston Park Road is remodeled to provide a larger traffic island. A new pedestrian crossing with signals is also proposed on to Edgbaston Park Road, which can be used by students going to the Tennis Court Residences on the east side of the road.
New fence and planting along west side of the path on boundary of Park Grange

Existing Car Park relocated to west of path, existing no. of spaces maintained to accommodate route in front of listed building. 1 tree lost and replanted

Existing modern garden remodelled, (including fencing to match existing)

vals of 21 meters with low UV emissions to reduce the wide (2.5m for pedestrians and 2.5m for cycles), apart

Gates moved back from road to allow nursery to be secured at night

Pavement remodelled/reduced to accommodate larger traffic island

from in discrete areas (as shown below) where the

pavement on boundary of Park Grange and Edgbaston Park Road

Cyclists and pedestrians swap sides at road crossing in order to enable utilisation of existing pedestrian route under Met and Mat

1.8m fence with planting to screen path from nursery garden

Path Merges with existing colonnade under Met and Mat for

Route narrowed at approach to groundsman’s access road

New opening formed in existing steel fence and planting

New opening formed in hedge and existing dwarf wall

Existing pond (SLINC) to be relocated elsewhere.

New opening formed in existing fence and hedge

New opening formed in existing fence and hedge

2 trees removed and replanted in this stretch

Existing stone wall to listed building retained

Route to the Vale

Path utilises existing footpath

Bollards to slow cyclists

Bollards to slow cyclists

Bollards to slow cyclists

Bollards to slow cyclists

Bollards to slow cyclists

Benches provided

Bench provided

Bench provided

Bench provided

Pond relocated

Key

Proposed Path
Conservation Area
Application Boundary
Proposed Fence with Planting
Proposed Green Heart
Listed Building
Existing Brick Paved Path
Through Colonnade of Met & Mat
Blockwork
Tarmac
Tactile Paving

Pond
Dry Pond
New Lighting Column
New Bench
New Bin
New Post Box
New Bollard
New Tree
Existing tree to be retained
Existing tree to be removed

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Somerset Road to the Vale

The path cuts into the grounds of Park Grange and runs roughly parallel with Edgbaston Park Road. The fence between Park Grange and Edgbaston Park Road is removed and undergrowth is cleared, so that this section of the path is opened up to the road. A new metal fence of a plain traditional design is provided between the new path and Park Grange. Existing trees between the new path and the existing pavement on Edgbaston Park Road are retained. In this area, where the path is close to tree roots, ‘no-dig’ construction will be used. There are small changes in level in this area of the site. Short retaining walls will be formed at the new opening by Somerset Road in stone to match the existing wall and coping. At the north end of Park Grange the path enters the Vale and joins the existing path.

A separate application for Conservation Area Consent will be submitted for openings that will be formed in hedges, walls and fences as follows:

- An opening of 4 meters will be made in an existing stone wall on Somerset Road which is very slightly over 1m high in places. The wall is in poor condition and will be repaired as part of the work. At the opening the wall be returned as a retaining wall to resolve the level change between pavement and the grounds of Park Grange. Stones and coping will match existing.

- On the boundary of Park Grange and Edgbaston Park Road a wooden fence, which is in poor condition, is to be removed and undergrowth be cleared between the gas substation and the end of the path at the Vale. This will open the new path up to the public realm. New metal railings will be installed between the new path and Park Grange.

- On the boundary of the Tennis Court Residences and Edgbaston Park Road, a 5m section of metal fence will be removed to allow access from the new pedestrian crossing on Edgbaston Park Road into the Tennis Court site.
The University of Birmingham has a national and international status and plays a key role in the City of Birmingham. The University aims to continually improve academic quality and to invest in the campus and facilities that are used by its students and staff as well as the wider community.

The University’s Masterplan provides a framework for the coherent long term development of the campus and, specifically, for the development of the twenty one projects which form the first phase of the Masterplan and comprise the Hybrid Planning Application. The University’s need for a new sports centre and new library form the largest projects in the Hybrid Planning Application, generating a sequence of linked projects. These include public realm, landscape and infrastructure works which support the other proposals. Together the projects will deliver a step change in the quality and character of the University estate.