2 Landscape Analysis The Site in its Ecological Context

Ecological Links

The Barnes Hospital site is surrounded by an array of meaningful and ecologically rich landscapes within its urban context. All of these sites incorporate water bodies and water based ecology. These sites each have a distinct character and their character helps to create distinct memories and moments throughout the site. This idea is one that we want to incorporate into our design going forward and use the inspiration of the valuable ecological features of the surrounding site to inform the spaces within the Barnes Hospital development.



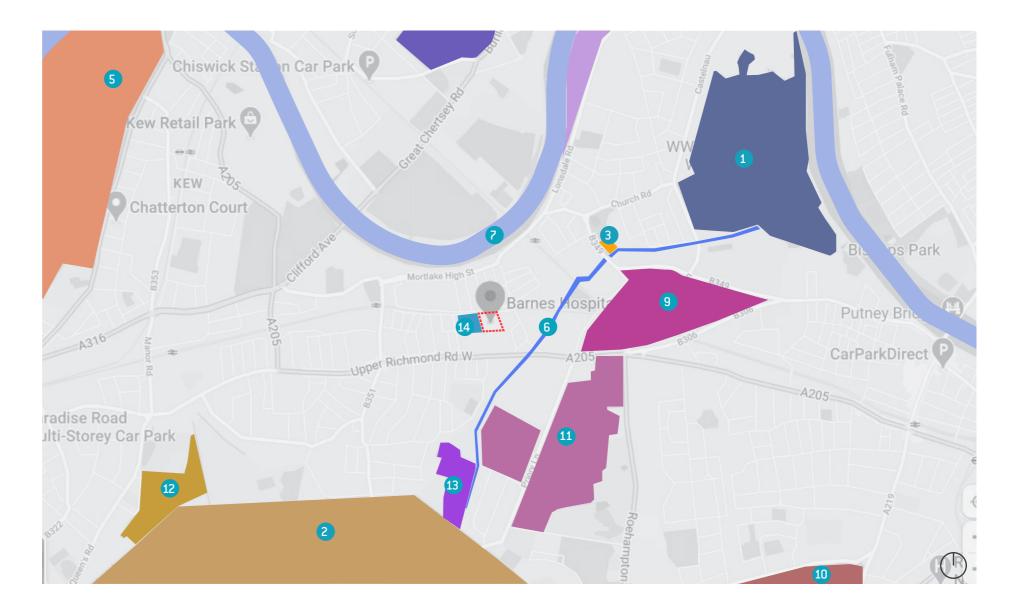
ECOLOGICAL ATTRIBUTES & DESIGNATIONS KEY

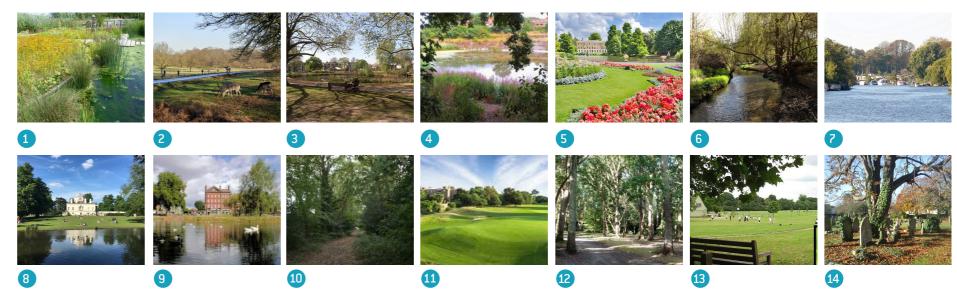


- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)



- Borough (Grade I) Site of Importance for Nature Conservationv
- Borough (Grade II) Site of Importance for Nature Conservationv
- Local site of Importance for Nature Conservation
- Open water / lake / river / stream ecology





All images used in this presentation remain the property of the copyright holder(s) and are used for the purposes of this

BARNES HOSPITAL

presentation only.

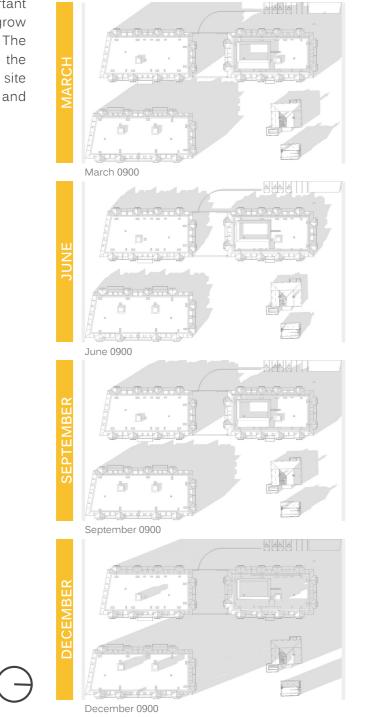
7

EXTERIOR **ARCHITECTURE**

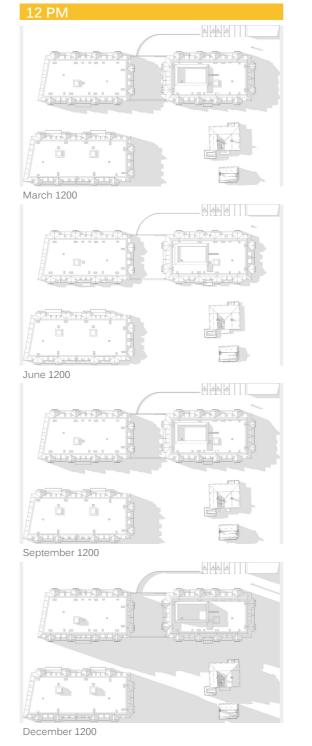
2 Landscape Analysis Sunlight studies

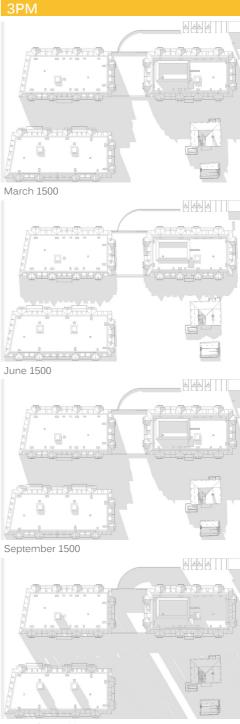
Shadow casting

In all urban environments, having a degree of natural light is important for navigation, for plants to grow and for personal comfort. The accompanied images show the amounts of sunlight within the site at various times of the day and year.

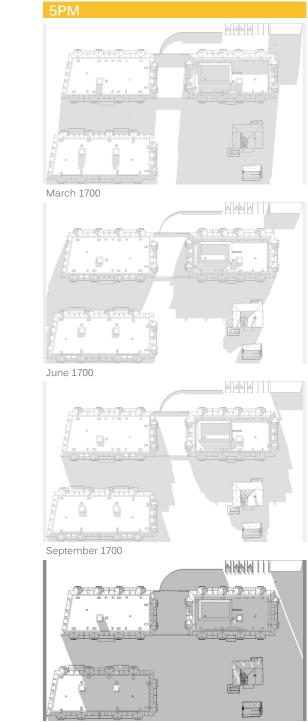


9 AM





December 1500



December 1700

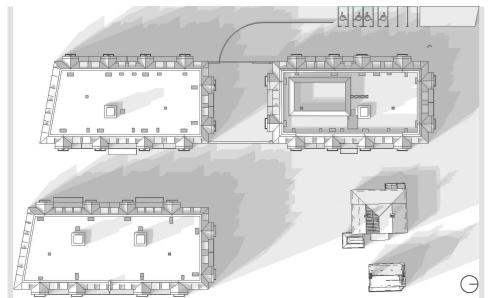
EXTERIOR

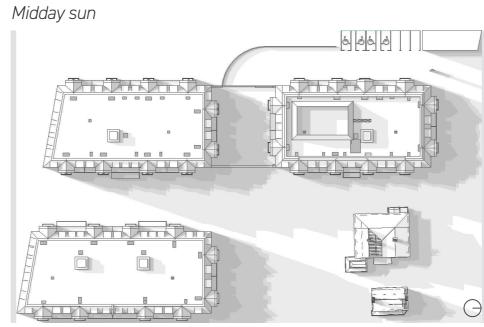
ARCHITECTURE

2 Landscape Analysis Sunlight studies

Sunlight analysis

Morning sun





Outcomes

Based on the sun / shade analysis, the centre of the site will receive good light levels and will be an inviting community gathering space. The south west of the site will also get a favourable amount of sunlight during midday and the afternoon, making it a great place for food production, as well as a casual community gathering area.

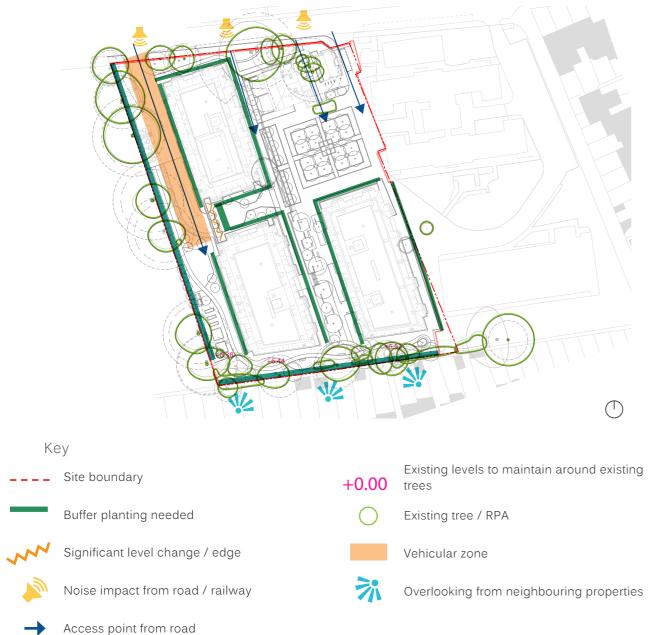
Afternoon sun Evening sun 6 6 6 6 ර්. එර්. එ Θ ()

> All images used in this presentation remain the property of the copyright holder(s) and are used for the purposes of this

2 Landscape Analysis Landscape constraints and opportunities

In analysing the existing landscape constraints and opportunites of the site, it becomes apparent where certain design features are to be located. The following diagrams express the challenges as well as favourable characteristics of the site.

Landscape constraints



Landscape opportunities



- Ecologically valuable buffer planting to private



2 Landscape Analysis Tree Retention Plan



Any stumps of previously fallen trees to be removed. Proposed trees along Southern border to be of a larger size, interplanted between the remaining existing trees and planting.

report.

Existing trees to be retained

Existing trees to be removed

(6 trees and tree groups total)

Below: Excerpt from Tree Constraints Plan, showing species and sizes of existing trees on

Species	Height (m)	Root Protection Area		
species	neight (III)	Radius (m)	m²	Square (m)
mbardy Poplar	14	9.0	254	16.0
mbardy Poplar	15	8.9	248	15.7
olly	6.5	3.6	41	6.4
me	9	4.8	72	8.5
me	6	3.6	41	6.4
ndon Plane	15	11.6	426	20.6
me	8	4.8	72	8.5
me	8	4.2	55	7.4
orse Chestnut	8	4.8	72	8.5
orse Chestnut	16	7.2	163	12.8
orse Chestnut	16	9.6	290	17.0
nerry	5	4.0	50	7.1
orse Chestnut	14	9.6	290	17.0
orse Chestnut	14	9.0	254	16.0
orse Chestnut	16	9.0	254	16.0
orse Chestnut	18	9.0	254	16.0
lver Maple	6	3.0	28	5.3
sh	7	4.2	55	7.4
nutan Pine	10	6.5	132	11.5
nutan Pine	12	7.0	152	12.3
lver Birch	8	2.3	16	4.0
alse Acacia	12	3.8	46	6.8
nutan Pine	13	4.8	72	8.5
alse Acacia	7	1.8	10	3.2
nutan Pine	12	4.2	55	7.4
ndon Plane	12	6.0	113	10.6
lver Birch	7.5	2.4	18	4.3
nutan Pine	6	1.7	9	3.0

For more information, refer to arboriculturist

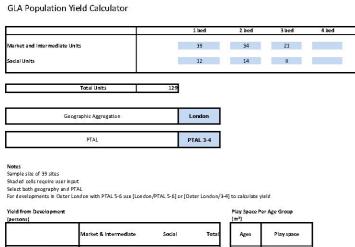
presentation only.

11

EXTERIOR ARCHITECTURE

2 Landscape Analysis Potential Play Provision

The following charts and diagrams illustrate spatially how the full play quantum could be accommodated on site. The plan below shows indicative locations for the play, however we believe the best soloution is to locate 12+ play off site in order to provide high quality



	Market & Intermediate	Social	Total	Ages	Play space
Ages 0, 1, 2, 3 & 4	10.4	14.2	24.6	0-4	245.9
Ages 5, 6, 7, 8, 9 , 10 & 11	7.3	11.0	18.3	5-12	182.6
Ages 12, 13, 14 & 15	2.3	5.2	7.6	12+	115.4
Ages 16 & 17	1.2	2.8	4.0		
18-64	159.3	55.8	215.1		
65+	3.8	1.3	5.1		
Total Yield	184.3	90.3	274.6	Total	544.0

Play Space Calculate

Total Children	54.4	
	Benchmark (m²)	Total play space (m ²)
Play shace requirement	10	544.0

play and maintain the ecological aspirations and intexgrity of the existing site. Reasons to support this strategy will be explained on the following page.

> 45 40

> 35

30

25

20

15

10 5

Units

4 bed





%	Age	Required	Provided
42%	0 - 5 Years	245.0m ²	250.0m ²
34%	5 - 11 Years	182.6 m ²	185.0m²
24%	12+ Years	115.4 m ²	118.0m ²
	Total	544.0m ²	553.0m ²

standard



Estimated yield from a development of 129 units

Yield

Located in London with a PTAL of 3-4

250

200

150

100

50

Indicative Play Strategy Diagram for all Play Provision on site

BARNES HOSPITAL

5 - 11 Years

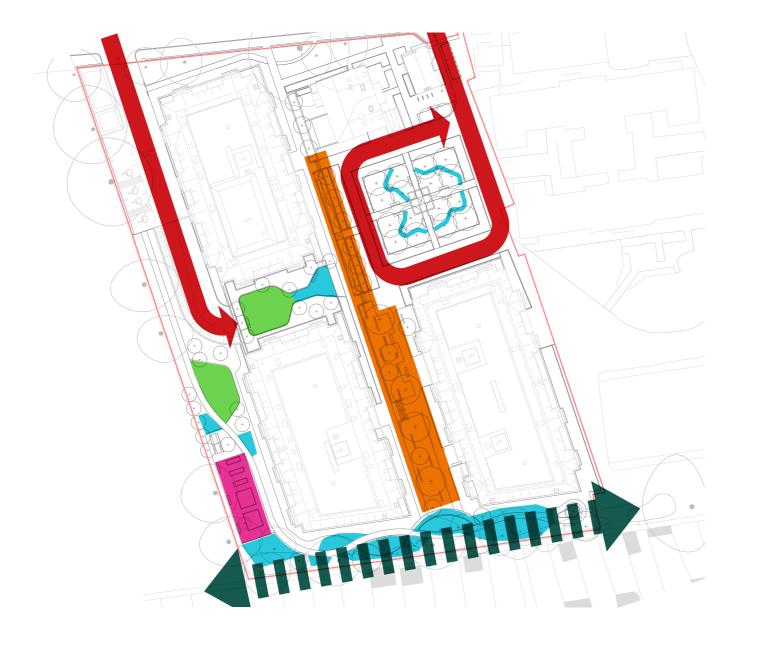
PLAY CALCULATIONS

Space requirements based on GLA benchmark



2 Landscape Analysis Play Provision Constraints

The aim for the play space is to achieve high quality and engaging playable spaces for the residents. The following constraints shown on the diagram below display the areas on site that are constrained in terms of play provision due to levels, emergency tracking, and ecological sensitivity.



Indicative Play Strategy Diagram for all Play Provision on site

Constraints



Green Corridor

As a result of pre-application advice, the play strategy has carefully been considered, noting officers' recommendations at pre-application stage that the landscaping proposals should sensitively consider the impact to the dark wildlife corridor. This was also a key consideration as part of the previous outline planning permission, as stated at Paragraph 190 of the committee report:

The green corridor on the southern boundary of the site has "190. been retained to allow the movements of wildlife, linking to the wider ecological network (crucially the adjacent Burial Ground – OSNI). Approximately 8m corridors are proposed to the west and southern boundaries, as confirmed in the Design Code, to allow a meaningful dark corridor along these boundaries and to avoid any harm to the retained trees on these boundaries"

As such, even though all play could be provided on site, we have sought to limit this, noting the site's sensitive context, relocating explorative, playful elements that are closer to the site's southern border to reflect itsn sensitive context.

The explorative nature trail elements that remain to the south of the site will be very light touch ecological elements that can be playful in nature and also double as ecoloigcal and habitat features.

Site Levels



Due to the change in levels between blocks A and B, the centre of the site (which takes the grade change) is not an appropriate play to locate play elements.

Vehicular Access and Emergency Tracking

These areas are to be left clear for vehicular access and emergency vehicular tracking and are therefor not suitable for play.

Note:

All images used in this presentation remain the property of the copyright holder(s) and are used for the purposes of this



2 Landscape Analysis Proposed Play Provision

The following page displays the proposed play strategy, including only 0-11 play provision on site, and providing 12+ off site through a financial contribution. We believe this strategy results in the highest quality play spaces and maintains the ecological integrity of the existing site.



0 - 5 Years garden. Age % 0 - 5 Ye 42% 5 - 11 Y 34%

KEY

Total

12+ - offsite contribution to allow for the site to retain its quiet character, and maintain biodiversity, as was the case for the outline planning permission.

standard.

Play strategy Diagram for 0-11 only on site

(Nature trail character)

- very light touch play elements such as boulders, balance and stepping logs nestled within planting which double as ecological features and habitats

5 - 11 Years (Prescrptive, Educational & Community Focussed)

- sculptural play elements such as climbing walls, tunnels, slides and play huts, coupled with more educational and explorative play within the grow

PLAY CALCULATIONS

	Required	Provided
ears Years	245.0m ² 182.6 m ²	250.0m ² 185.0m ²
	544.0m ²	553.0m ²

Space requirements based on GLA benchmark

EXTERIOR

ARCHITECTURE



03 Landscape Vision & Approach