## 5.1 Landscape aims: Serving people, plants and the planet

#### People

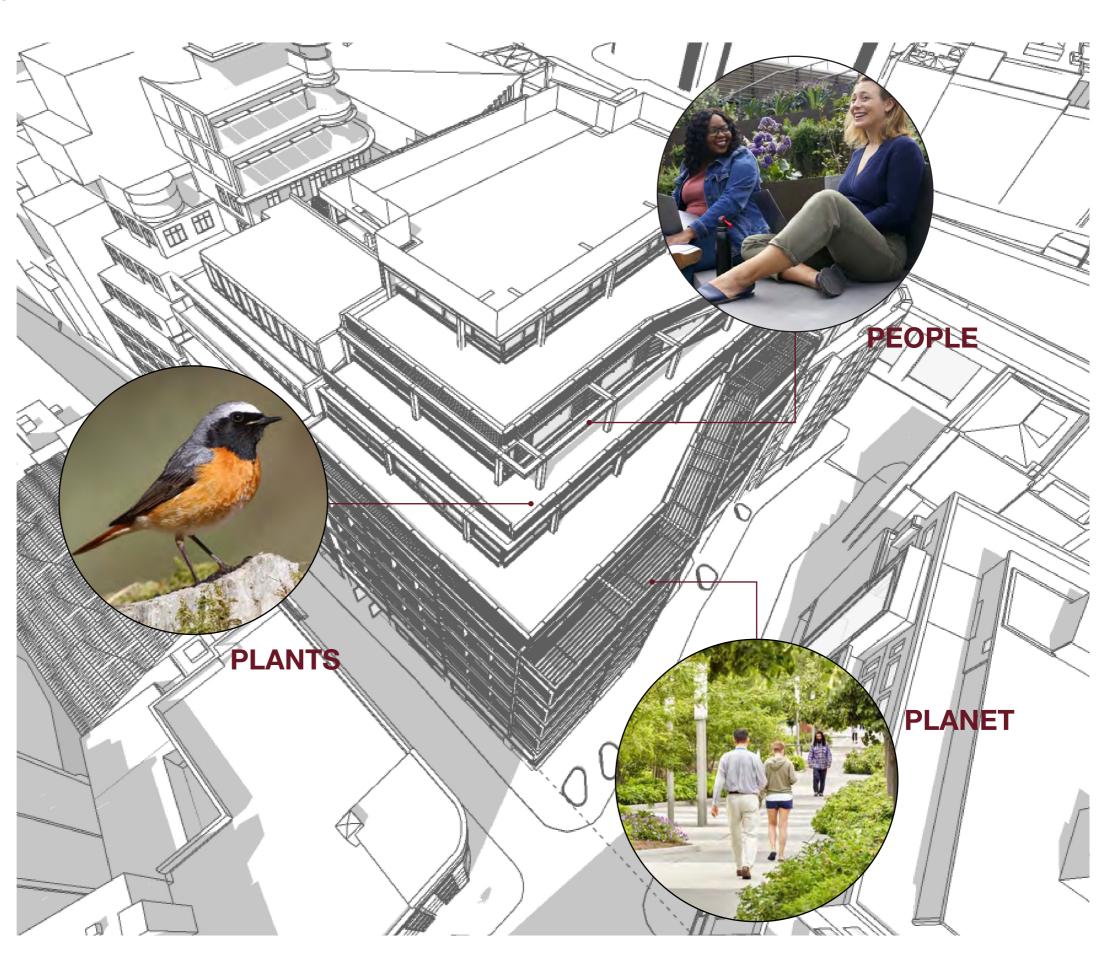
- The building will provide usable amenity terraces across four floors.
- The planting will help provide shelter from prevailing winds and screen site lines from near by neighbours.

#### **Plants**

- Proposed landscape to contribute to the local ecosystem
- Providing meaningful habitats for specific key species such as the black red start and local bats
- Planting to be resilient to impacts of climate change
- Maintenance-friendly to remain viable and enjoyed by all

#### Planet

- Ground level amenity to provide improvements to the public realm by introducing benches, planters and street trees
- Improve the local environment through SUDS and biodiversity
- Improve air quality and local ambient temperatures.



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#### 5.2 Micro-climates, habitats and amenity

#### Micro-Climates

- South-facing terraces exposed to wind and sun.
- Planting and architecture to help shelter these terraces for comfort and usability.
- North-facing terraces sheltered from the wind but also in shade. Planting here to be shade tolerant.

#### Aspect and Privacy

 Plants that screen sightlines and/or orient people away from looking over to neighbours

#### Diversity of Habitats to suit aspect and micro-climates

- North-facing, night flowering terrace planting for bats and invertebrates
- South-facing flowering and sheltering planting for birds and invertebrates
- Screening planting for the roof (for birds and invertebrates)

#### **Ecological Connectivity**

• The site is close to other roof terraces which, together, contribute to the ecological network

#### Maintenance

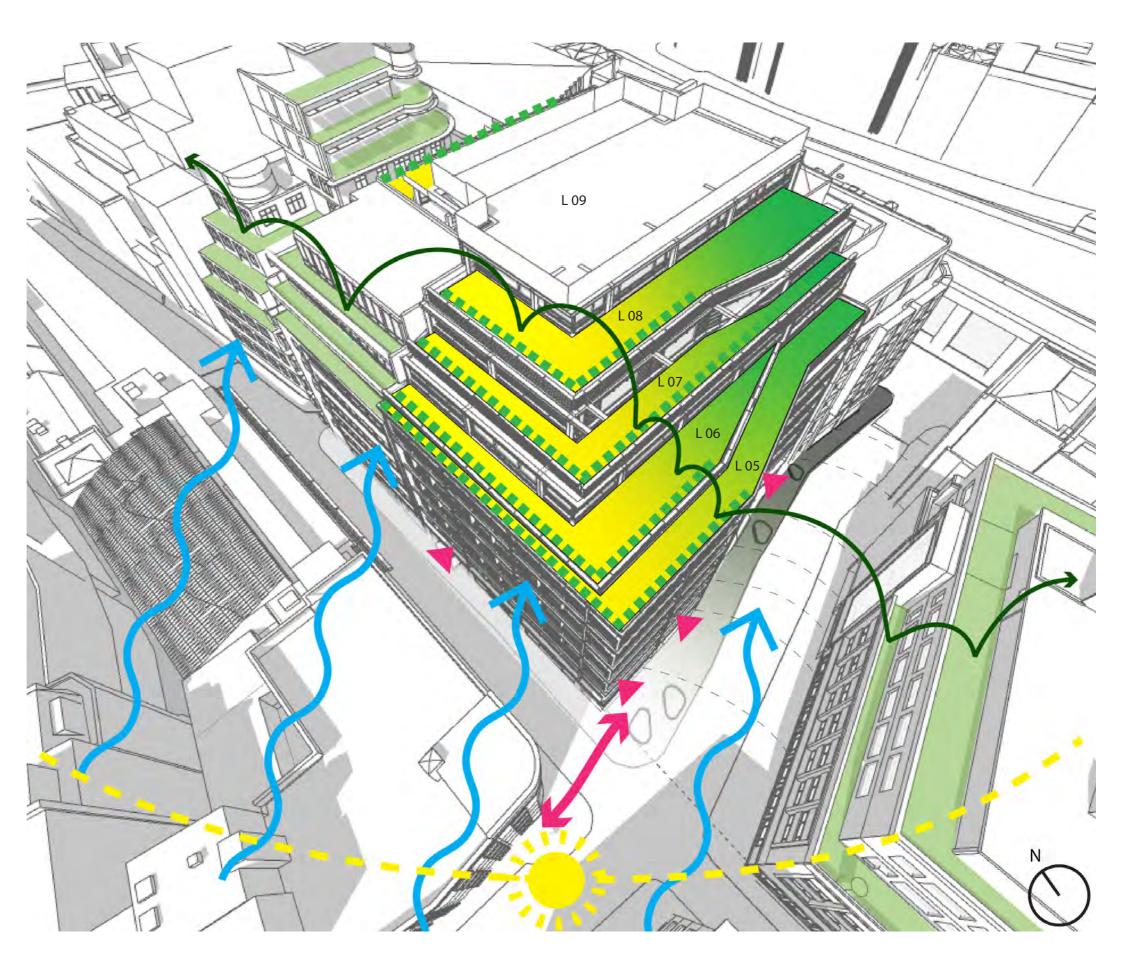
 Landscapes that are well used need to be well maintained for the benefit of both people and the ecology

#### Climate Change Resilience

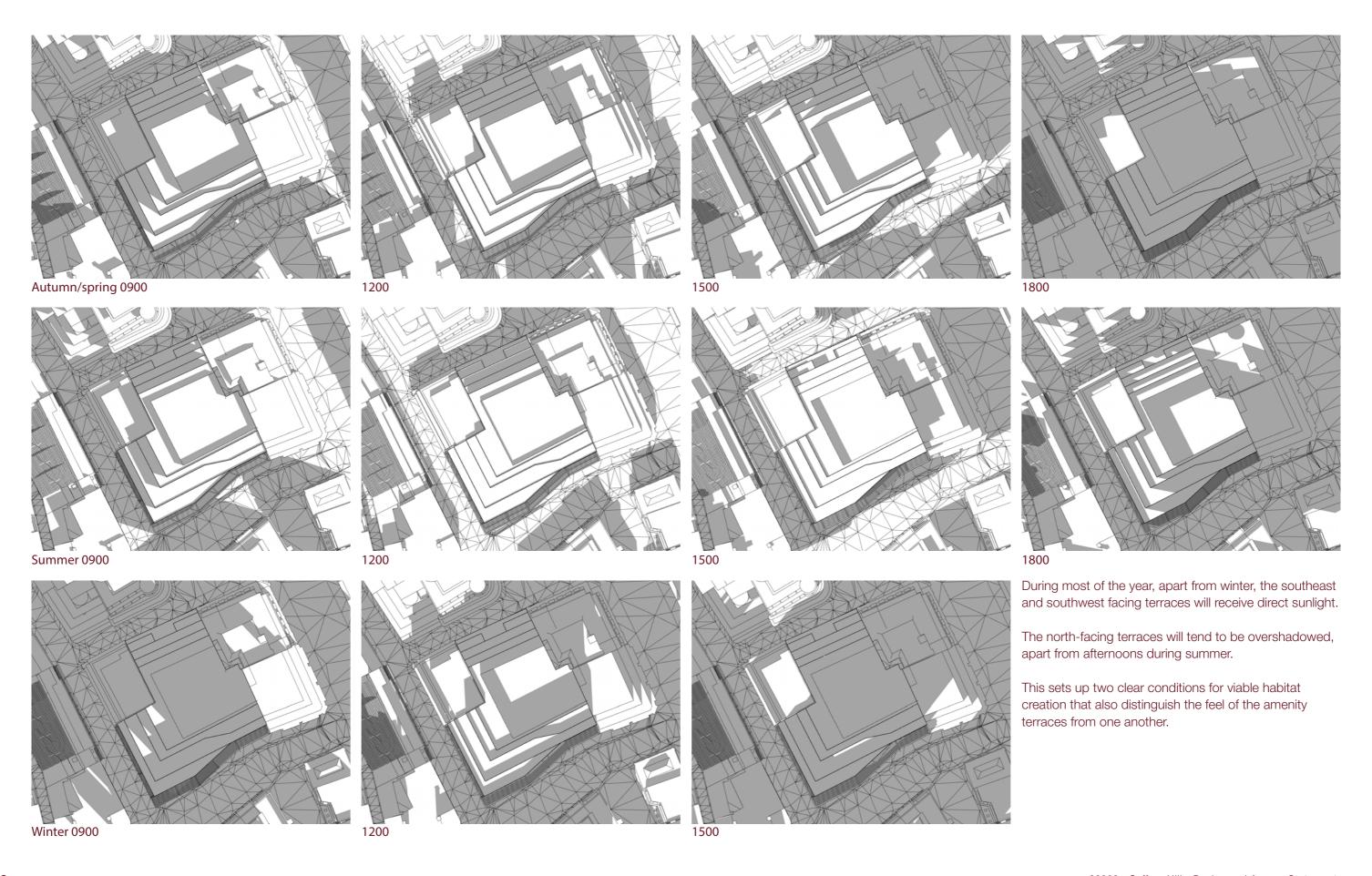
• All planting will be chosen with future climate in consideration

#### **Ecological Enhancements**

- UGF 0.30 Target achievable with proposed landscape
- 100% Biodiversity Net Gain achievable



## 5.3 Microclimates: sunlight and overshadowing



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#### 5.4 Site heritage and planting concept

"My Lord of Ely, when I was last in Holborn, I saw good strawberries in your garden there; I do beseech you, send for some of them."

In Richard III, the Duke of Gloucester Bishops of Ely's Holborn estate











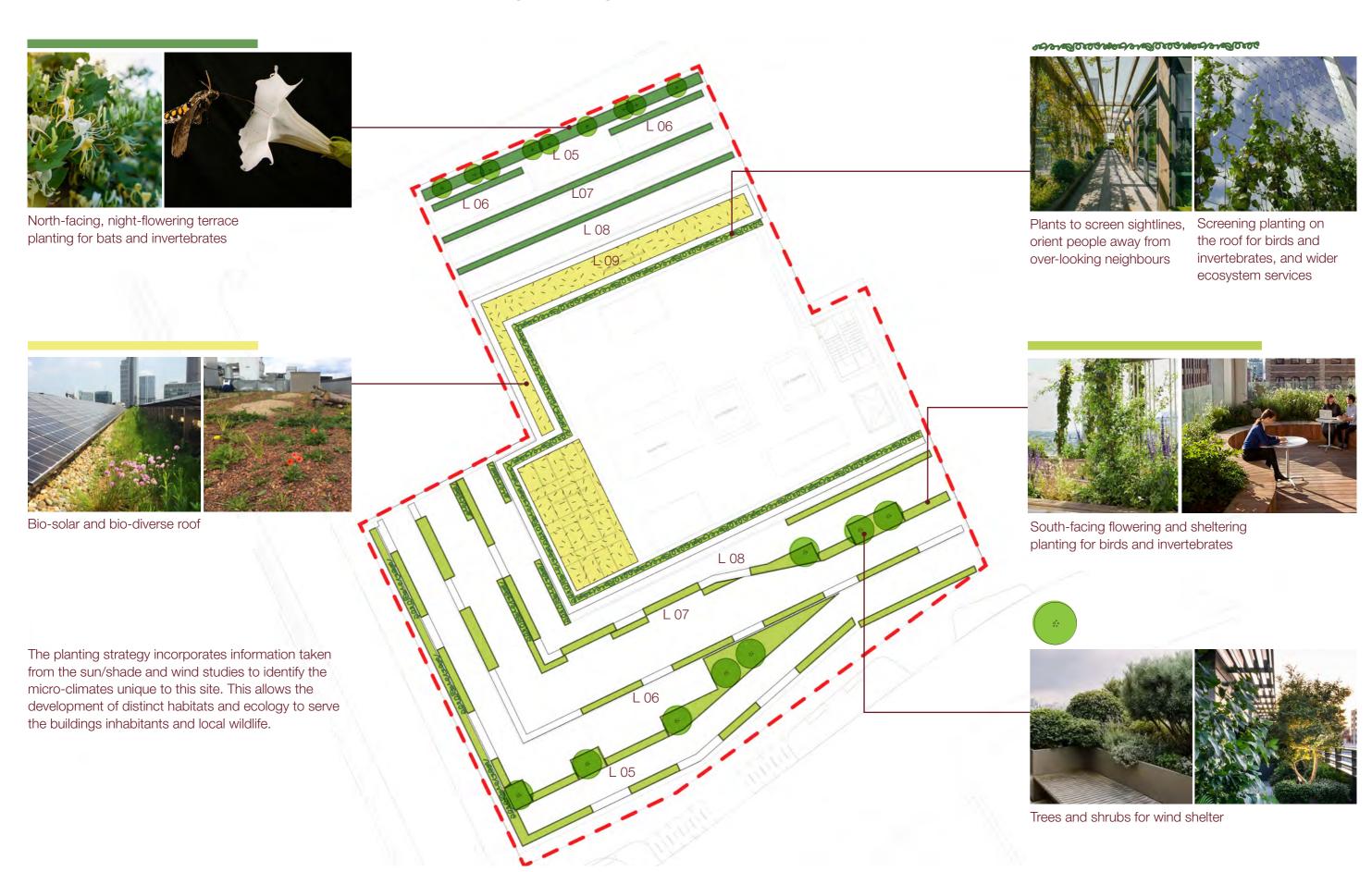


Saffron Hill derives its name from the saffron which was once grown here on land owned by the Bishops of Ely. Shakespeare also referred to the pleasure ground around Ely Palace.

Wild and cultivated strawberries grow in a wide range of climates and ecologies, some of which present similar conditions to those on the terraces of the proposed building.

A selection of strawberry plants and crocuses will be incorporated into the planting palette in acknowledgement of this heritage.

### 5.5 Roof terraces: Biodiversity and Planting Strategy

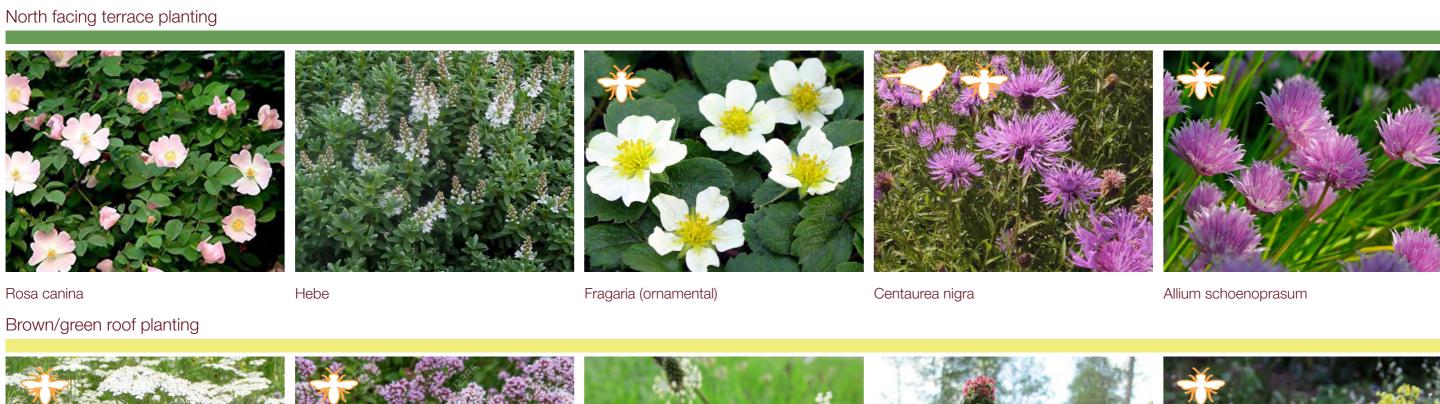


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## 5.6 Conceptual planting section



## 5.7 Roof terraces: Indicative planting palette





South facing terrace planting

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#### 5.8 Roof terraces: Indicative planting palette

#### Screening planting

DO LO CONTRACTOR DE LO









Hedera helix

Lonicera periclymenum

Clematis armandii

Jasminum officinale

#### Trees and shrubs











Arbutus Unedo

Chaenomeles japonica

Cistus × hybridus

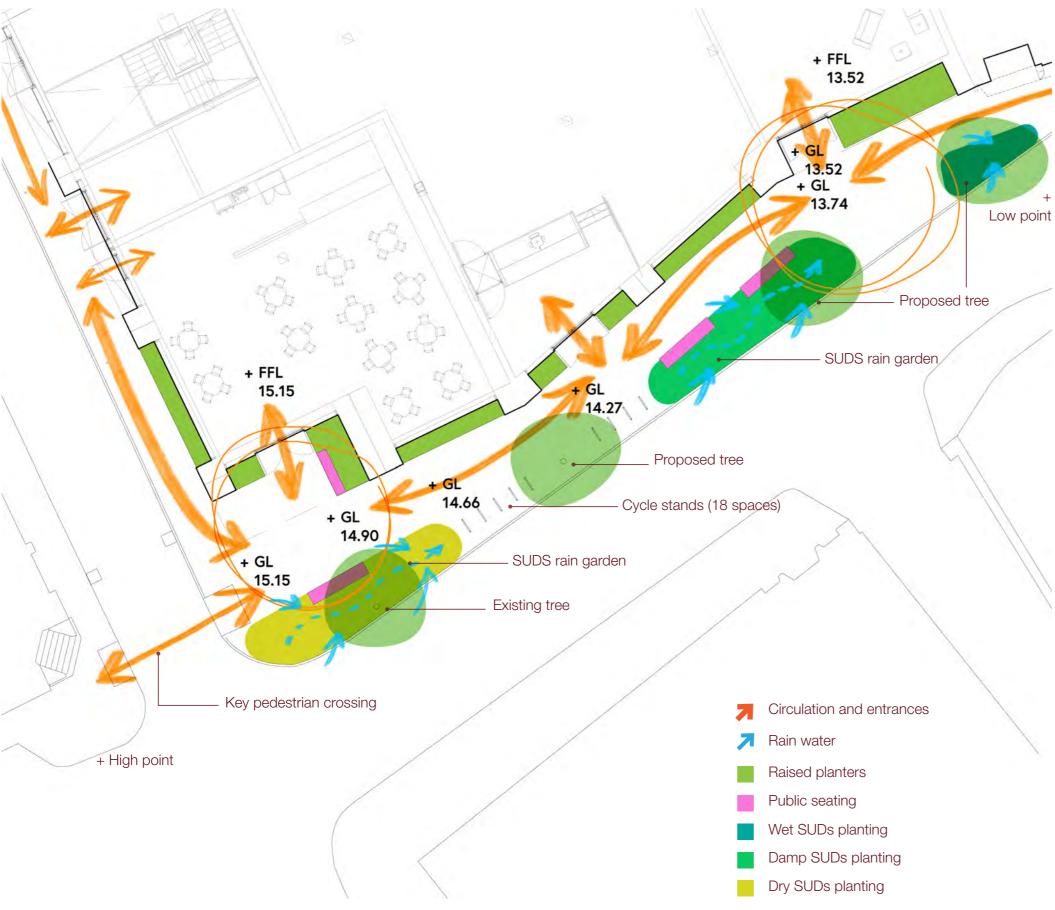
Myrtus communis

Viburnum opulus

The planting palette has been developed in response to the particular microclimate created on site. Each of these areas has its own planting profile and therefore its own habitat to serve specific local wildlife.

The mix of native and native-adjacent planting has been chosen to support multiple species of bats, birds and bugs throughout the year. The planting has also been chosen with future climate conditions in mind. For the buildings users the various habitats offer seasonal delight and a rest-bite from the urban context.

## 5.9 Ground floor: Planting concept diagram



Proposed landscape strategies:

- Whole pavement for public realm and environmental benefit
- A green and welcoming entrance to cafe
- New street trees and planting for greener streetscape
- Provision for public seating
- Graded SUDS planting: pollinator-friendly, draught-tolerant, balance of evergreen and seasonal presence
- Underground services under review, to be coordinated





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## **5.10 Ground floor: Planting strategies**



## **5.11 Ground floor: Indicative planting palette**

#### North facing raised planters











South facing raised planters









Rosa carnia

Alnus cordata

Rain garden planting











Eupatorium cannabinum

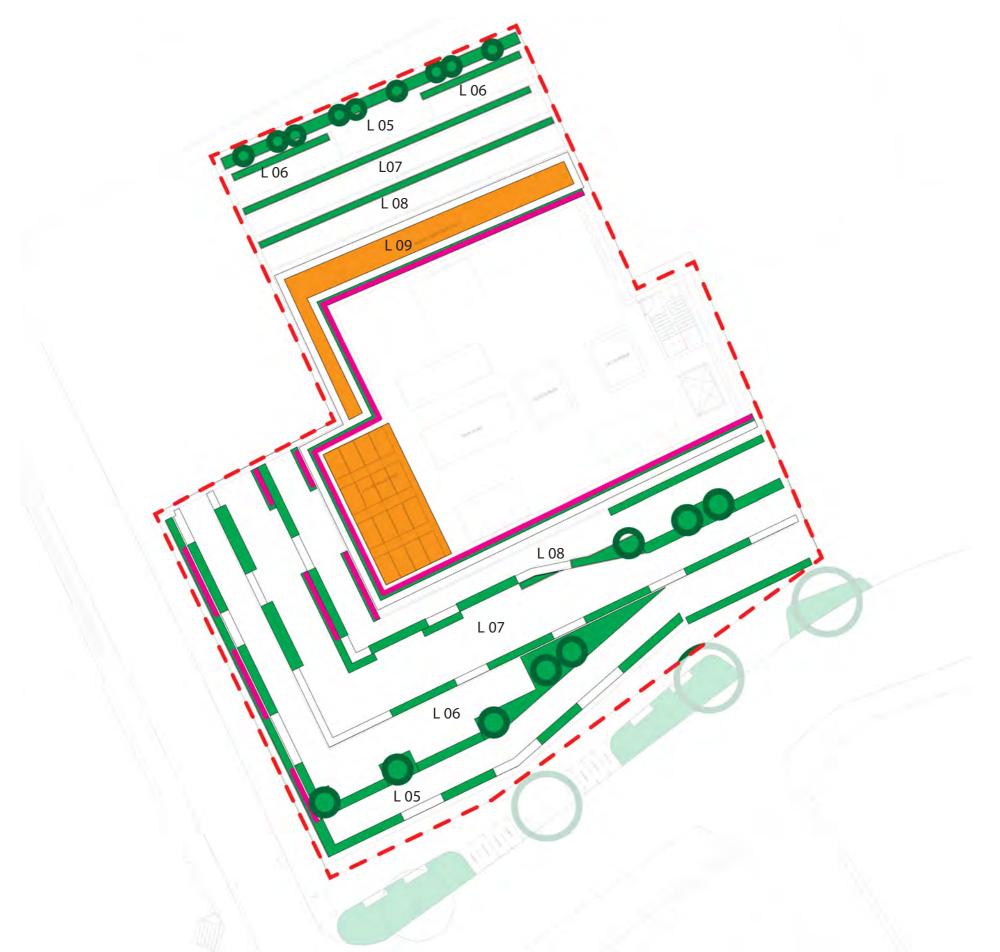
Carex pendula

Iris pseudocorus

## **5.12 Available soil depths**



## **5.13 Urban Greening Factor**



This scheme can achieve the target of 0.3 minimum UGF through a combination of raised planters, small shrubs and trees, climbing plants and a bio-diverse green roof.

Although it is not counted in UGF calculations, the new ground floor planting outside of the site boundary would contribute 3 new trees and 58m2 of rain garden planting.

- Red line boundary
- Planting (Soil depth 600mm+)
- Green roof (Growing medium depth 150mm+)
- Climbing plants
- Trees and shrubs

## **5.14 Urban Greening Factor: Calculations**

Total site area (m2)	1430.0
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Location	Description	#	Factor	Area (m2)	Score	Notes
			G	round Floor		
Ground floor	Vegetation		0.8	35.8	28.6	Raised planter (within red line boundary)
Ground floor	Non permeable paving		0			
			•	Level 1 - 4		
evel 1 - 4 balcony	Vegetation over structure	4	0.8	14.8	11.8	Raised planter
				Level 5		
Level 5 terrace	Vegetation over structure	4	0.8	46.2	37.0	Raised planter
Level 5 terrace	Climbing plants		0.6	22.5	13.5	9m length 2.5m height
Level 5 terrace	Trees (within planting areas)	9	0.8	18	14.4	1.5m diameter x 9 (2m2)
				Level 6		
Level 6 terrace	Vegetation over structure		0.8	42.8	34.2	Raised planter
Level 6 terrace	Trees (within planting areas)	5	0.8	15.5	12.4	2m diameter x 5 (3.1m2)
				Level 7		
Level 7 terrace	Vegetation over structure		0.8	29.8	23.8	Raised planter
Level 7 terrace	Climbing plants		0.6	9.3	5.6	6m length 2.5m height
				Level 8		
Level 8 terrace	Vegetation over structure		0.8	39.3	31.4	Raised planter
Level 8 terrace	Trees (within planting areas)	3	0.8	9.3	7.4	2m diameter 3 (3.1m2)
Level 8 terrace	Climbing plants		0.6	15.0	9.0	6m length 2.5m height
				Level 9		
Level 9	Extensive green roof		0.7	93.8	65.7	minimum settled depth of 150mm
Level 9	Vegetation over structure		0.8	36.3	29.0	Raised planter
Level 9	Climbing plants		0.6	175.0	105.0	70.1m length 2.5m height
	Tot	al Score			429.0	
	Total red lin	e bounda	ary area		1430.0	
	Urban Gree	en Facto	r Score		0.300	

#### 5.15 Management and Maintenance

An ecologically-led maintenance approach is proposed, in which safety is prioritised first, then the viability and long-term health of biodiverse habitats and then amenity use and value.

The landscape maintenance strategy has been prepared in the context of a thorough and detailed understanding of the site landscape and its context and within the framework of relevant policy and design guidance. The landscape has been devised to create a range of complimentary new habitats and the routine maintenance tasks aimed to keep encouraging biodiversity whilst allowing amenity use.

Each habitat area will require different seasonal actions to help the matrix of new and existing habitats to establish and be suitably maintained.

During this establishment automatic irrigation should be used through-out the landscape, particularly in the raised planters, where planting will be installed on a structural slab, limiting tree and plant roots' access to water that on terra firma would be in the ground.

Plants on roof terraces also tend to desiccate in the wind, so irrigation is even more important at these levels.

Beyond establishment, areas of the landscape should be watered as needed during prolonged hot and dry periods.

In addition to the horticultural actions shown on this page, the SUDS rain garden should be checked regularly and any blockages cleared to maintain their function.

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PLANTING TYPE / AREA	HORTICULTURAL & MAINTENANCE OPERATIONS	J	F	M	A N	1 1	1	A	S	0	IN	U		J	F	IVI	Α	IVI	J	J	Α	3	U	IN	U	
rrigation	Water all trees and plants regularly during					+							as necessary													as necessary
	establishment and as necessary during the												as fiecessal y													as fiecessal y
	following 2-5 years in prolonged periods of hot and																									
	dry weather.																									
				YEA	R 1	- ES	TAB	LISH	ME	NT			FREQUENCY		2 Y	EAR	- 0	NG	OIN	G N	ΙΑΙ	NTE	NAN	ICE		FREQUENCY
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Planters/Borders																										
•	Remove litter at each visit												as necessary													as necessary
	Check and top up compost/mulch if required												1x year													1x year
	General weeding (by hand only); removal of any												1 x month													1 x month
	unwanted, invasive species; collect and remove																									
	arisings																									
				_	_	_	TAB	LISH	ME	NT			FREQUENCY					_		G N	IΙΑΝ	_	NAN	ICE		FREQUENCY
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Climbers																										
rees	Check for damaged /diseased branches and prune												2x year													2x year
	as necessary		_		4																					
	Remove weeds from around tree bases												2x year													2x year
	Regular check of tree ring irrigation and ventilation												2 x year													2 x year
	where installed	Н	_	_	+	+																			-	
	Check and adjust anchoring/securing system, as												2 x year													2 x year
ihrubs	necessary	$\vdash$	$\dashv$		+	+	+	+		+			4												-	4
onrubs	Regular check for health and performance; removal of dead and/or damaged/ill branches												4 x year													4 x year
	Replace any dead or badly damaged plants with	$\vdash$	$\dashv$		+	+	+	+		+			1 x year												+	1 x year
	same species and size (at removal)												1 x year													1 x year
	Species appropriate prunng to maintain desired	$\vdash$	+	-	+	+	+		H	+			2 x year												+	2 x year
	form, overall height and spread; collect and												2 x year													Z X year
	compost/remove arisings																									
	Ensure adequate irrigation of shrubs during adverse		1			T			t				as necessary													as necessary
	weather conditions, particularly during the first 2												,													,
	years establishment																									
				YEA	R 1	- ES	TAB	LISH	ME	NT			FREQUENCY		2 Y	EAR	- 0	NG	OIN	G N	IΙΑΝ	NTE	NAN	ICE		FREQUENCY
PLANTING TYPE / AREA	HORTICULTURAL & MAINTENANCE OPERATIONS	J	F	М	A N	1 J	J	Α	S	0	N	D		J	F	М	Α	М	J	J	Α	S	0	N	D	
Herbaceous perennials																										
Perennials and bulbs	Regular check for health and performance; removal												4 x year													4 x yer
	of dead and/or damaged/ill leaves etc																									
	Check and removal or dead plants/replacement												2 x year													2 x year
	planting with the same species and size (at																									
	removal).				_	+	_	_	┡	-			_													
	Remove weeds and other invasive species from										l		3 x year													3 x year
	around and between perennials. Remove arisings.										l															
	Species appropriate tidy up to maintain desired	$\vdash$	$\dashv$	+	+	+		+		+			1 x year												+	1 x year
	form and seasonal performance (removing stems to										l		1 x year													1 x year
	the ground) of any foliage that has died back										l															
	and ground, or any romage that has area basic										l															
	Ensure adequate irrigation of shrubs during adverse	$\Box$	1			+			Г		Г	П	as necessary			П										as necessary
	weather conditions, particularly during the first 2												, , ,													,
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	years establishment												1 x year													1 x year
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	Allow bulb leaves to die-back naturally. Do not cut or cover whilst green. Remove or cover with soil							1	1	1										l						
	Allow bulb leaves to die-back naturally. Do not cut																									
	Allow bulb leaves to die-back naturally. Do not cut or cover whilst green. Remove or cover with soil							LISH	_	_			FREQUENCY		_			_	_	G N			NAN			FREQUENCY
PLANTING TYPE / AREA	Allow bulb leaves to die-back naturally. Do not cut or cover whilst green. Remove or cover with soil	J	F			- ES		_	_	NT O	N	D	FREQUENCY	J	_			NG M	_	IG N				ICE N		FREQUENCY
Climbings plants	Allow bulb leaves to die-back naturally. Do not cut or cover whilst green. Remove or cover with soil conditioner when yellow.  HORTICULTURAL & MAINTENANCE OPERATIONS	J	F					_	_	_	N	D		J	_			_	_							
•	Allow bulb leaves to die-back naturally. Do not cut or cover whilst green. Remove or cover with soil conditioner when yellow.  HORTICULTURAL & MAINTENANCE OPERATIONS  Species-appropriate prune to maintain shape and	J	F					_	_	_	N	D	FREQUENCY  1 x year	J	_			_	_							FREQUENCY 1 x year
Climbings plants	Allow bulb leaves to die-back naturally. Do not cut or cover whilst green. Remove or cover with soil conditioner when yellow.  HORTICULTURAL & MAINTENANCE OPERATIONS  Species-appropriate prune to maintain shape and scale, tying in lateral shoots to support structures	J	F					_	_	_	N	D		J	_			_	_							
Climbings plants	Allow bulb leaves to die-back naturally. Do not cut or cover whilst green. Remove or cover with soil conditioner when yellow.  HORTICULTURAL & MAINTENANCE OPERATIONS  Species-appropriate prune to maintain shape and	J	F					_	_	_	N	D		J	_			_	_							
Climbings plants	Allow bulb leaves to die-back naturally. Do not cut or cover whilst green. Remove or cover with soil conditioner when yellow.  HORTICULTURAL & MAINTENANCE OPERATIONS  Species-appropriate prune to maintain shape and scale, tying in lateral shoots to support structures (using biodegradable twine - no plastic or wire).	J	F					_	_	_	N	D	1 x year	J	_			_	_							1 x year
Climbings plants	Allow bulb leaves to die-back naturally. Do not cut or cover whilst green. Remove or cover with soil conditioner when yellow.  HORTICULTURAL & MAINTENANCE OPERATIONS  Species-appropriate prune to maintain shape and scale, tying in lateral shoots to support structures (using biodegradable twine - no plastic or wire).  Weed around base of climbings plants and apply a	J	F					_	_	_	N	D		J	_			_	_							
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Climbings plants	Allow bulb leaves to die-back naturally. Do not cut or cover whilst green. Remove or cover with soil conditioner when yellow.  HORTICULTURAL & MAINTENANCE OPERATIONS  Species-appropriate prune to maintain shape and scale, tying in lateral shoots to support structures (using biodegradable twine - no plastic or wire).  Weed around base of climbings plants and apply a soil conditioner (such as Veolia Pro-Grow or	J	F					_	_	_	N	D	1 x year	J	_			_	_							

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