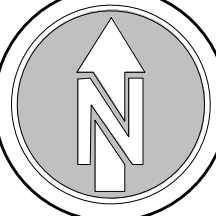


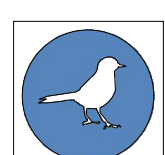
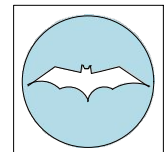
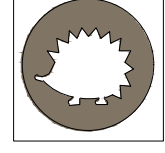
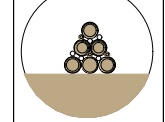
NOTE: SURROUNDING CONTEXTUAL BUILDINGS AND INFORMATION ARE BASED ON RECEIVED ORDINANCE SURVEY DRAWINGS AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. ASSUMED SITE BOUNDARY IS SUBJECT TO CONFIRMATION



General Notes:

All proposed tree locations are subject to co-ordination with drainage layout and subject to modification depending on the location of underground services and utilities.
Drainage engineer to co-ordinate services layout in conjunction with the landscape plan to avoid conflict as much as possible.
Allowance to be made at tender stage for the possible requirement for root barriers once the drainage layout is confirmed. CA to be informed immediately once this is available.

Ecological Features Key:

-  **Proposed Bird Nesting Boxes (4No)**
To be Woodcrepe swift box
-  **Proposed Bat Boxes (2No)**
To be Beccumans Woodstone bat box
-  **Proposed Hedgehog House (4No)**
-  **Proposed log habitat pile (4No)**

Note:
Indicative location of ecological features within the landscape shown on plan. Exact specification and location to be confirmed with project ecologist.
For more information refer to Biodiversity Management Plan by Brooks Ecological Ref: ER-3806-08

SOFT LANDSCAPE SPECIFICATION NOTES

NOTE: All soft landscape works to be carried out in accordance with BS4428:1989.

SUBSOIL

Subsoil should be broken up to relieve compaction and aid drainage prior to topsoiling to the following depths:
- For light and non cohesive subsoils: 300mm
- For stiff clay and cohesive subsoils: 450mm
Immediately before spreading topsoil, remove stones larger than 50mm.

TOPSOIL

Existing site won topsoil to be reused for soft landscape areas if sufficient quantities are available and the topsoil meets the criteria for multipurpose topsoil as defined in table 1 of BS3882:2015 specification for topsoil.

If imported topsoil is required it is to be supplied and spread by the main contractor to the approval of the Landscape contractor, in accordance with BS 3882:2015. To be a natural sandy loam, of medium texture, with a pH between 5.5 and 7.8, not more than slightly stony and free of pernicious weeds. Subsoil to be well broken up prior to top-soiling to relieve compaction. Topsoil depths should be:
Areas for Ornamental shrub Planting: minimum 400mm
Areas for cultivated turf: minimum 150mm

CULTIVATION

Weeds to be prevented from seeding or becoming established by applying a suitable herbicide and allowing the correct time to elapse, as directed by the manufacturer. Compacted soil to be broken up to a depth of 100mm, with any stones, grass tufts or rubbish larger than 50mm in any direction to be removed, leaving a regular and even surface. Suitable slow release fertiliser to be supplied and spread @ 50g/m² to all planted areas.

CLIMATIC CONDITIONS

Topsoiling should be carried out in the driest conditions possible – cultivation to be carried out when the soil is moist, friable and not waterlogged or frozen. Topsoil should not be handled during or after heavy rainfall or when it is wetter than the plastic limit as defined by BS 3882. Planting should not take place in waterlogged conditions or when the ground is frozen.

SOIL AMELIORANT

Peat free compost to be spread over ornamental shrub beds @ minimum 50mm depth prior to cultivation.

TREES

All trees within shrub beds to be planted in separate pits in accordance with free planting detail.
All plant material to comply with BS 3934 Part 1:1992, be obtained from a nursery certified by the HTA and transported to site in accordance with the HTA Plant Handling Guide: 1996. All trees to be planted to the original root collar and secured in place with underground guying system in accordance with free planting detail. All trees to be fitted with aeration and irrigation system in accordance with free planting detail.

If the trees are to be planted outside of the planting season (late October - late March) then containerised stock to be used in lieu of root ball to the same specification - allowance to be made for this at tender stage if required once construction timetable is known and CA informed immediately.

EXISTING SHRUBS

Existing shrubs to be trimmed back at appropriate time of year for the species and maintained in conjunction with the proposed planting. All pruning works should be carried out by an approved member of the Arboricultural Association or other approved specialist using approved methods for that species and should result in a balanced form on all sides.

PROPOSED ORNAMENTAL SHRUB PLANTING

All shrubs to be positioned as shown on the drawing and to the density and specification noted in the plant schedule.
Planting holes to be 150mm wider than the root spread, have the base ground thoroughly broken up before planting and backfilled with peat free compost.
All shrubs to be evenly spaced throughout the planting areas to the specified density in a staggered arrangement unless otherwise noted in the planting schedule.

NATIVE WHIP PLANTING

Areas to be cleared and cultivated as described above. Rotavate areas to receive whip planting to a minimum depth of 300mm to form an open textured free draining growing medium. Remove all stones and other debris larger than 50mm in any one direction and remove all litter and vegetation matter prior to planting.
Each transplant to be fitted with tubex rabbit guard / shrub shelter appropriate to the species prior to mulching.

NATIVE HEDGE PLANTING

Wildflower mixes to be sown directly into cultivated low fertility subsoil in accordance with manufacturers recommendations at rate of 5g/m² for wetland mix and 15g/m² for everyday wildflower mix (see key for species mixture).
Preparation: Cultivate subsoil, apply a suitable herbicide and allow the correct time to elapse, as directed by the manufacturer, and seed the bed. No fertiliser, compost or mulch are to be applied to the wildflower bed.
Cutting first season: Time of first cut - if sown in Autumn cut in March/April, if sown in Spring cut in August - October after flowering. Height of first cut - 70mm. If sown in Autumn it should also be cut in September/October after flowering.
Cutting second season: March/April - cut to 50-70mm then September/October - cut to 50mm after flowering.
To be cut twice a year from then on as per above.

NOTE: At time of each cut all arisings to be removed from the bed to maintain reduced soil productivity.

GRASSED AREAS

Seeded areas should be sown in accordance with BS 3969:1998: Recommendations for Turf for general purposes and BS 4428:1989 General Landscape Operations.
Height of initial growth: 100mm
Height of first cut: 50mm
Height of growth: The height of growth must not exceed 100mm at any time.
Frequency: Cut as and when necessary to a height of 25mm, using a rotary mower and remove all arisings.
Timing: When grass reaches scheduled height of maximum growth and is reasonably dry.
Application: At the time of each cut, trim all grass edges round the base of trees, manholes etc and remove arisings. Sweep all adjoining hard areas clear of cuttings and remove.
Weeding: Keep the sward substantially free of broad leaved weeds by applying a suitable selective herbicide.
Fertilizer: March application: 15:10:10 Spring turf fertilizer at 35g/m².
September application: 5:10:10 Autumn turf fertilizer at 50g/m².

WILDFLOWER SEEDING

Wildflower mixes to be sown directly into cultivated low fertility subsoil in accordance with manufacturers recommendations at rate of 5g/m² for wetland mix and 15g/m² for everyday wildflower mix (see key for species mixture).
Preparation: Cultivate subsoil, apply a suitable herbicide and allow the correct time to elapse, as directed by the manufacturer, and seed the bed. No fertiliser, compost or mulch are to be applied to the wildflower bed.
Cutting first season: Time of first cut - if sown in Autumn cut in March/April, if sown in Spring cut in August - October after flowering. Height of first cut - 70mm. If sown in Autumn it should also be cut in September/October after flowering.
Cutting second season: March/April - cut to 50-70mm then September/October - cut to 50mm after flowering.
To be cut twice a year from then on as per above.

SUBSTITUTIONS:

Upon submission of evidence that certain materials, including plant materials, are not available at the time of the landscape contract, the Landscape Contractor may be permitted to substitute other materials and plants in exceptional circumstances during the contract with an agreed adjustment of prices.
All substitutions shall be of nearest equivalent species and variety to the original specified but shall be subject to approval by the Landscape Architect before any change is made.

TIMES OF YEAR FOR PLANTING:

Soft landscape works to be carried out during the first possible planting periods following completion of the building and associated engineering works to car park and access roads in accordance with the times of year for planting notes below:
- Native and ornamental trees: During dormant winter period - Late October to late March (only if planted in the planting season otherwise containerised stock to be used).
- Bare root native transplants: During dormant winter period - Late October to April.
- Container grown ornamental and specimen shrubs: At any time if ground and weather conditions are favourable.

MULCH

75mm depth of 8-35mm ornamental bark mulch (peak-free) to be supplied and spread to all planting areas. Finished mulch level to be installed and maintained at 25mm below any adjacent kerbs or paving surfaces.

MAINTENANCE

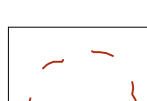
All planting areas to be maintained to a high standard by the contractor for 12 months after practical completion, to ensure the landscape scheme is successful, and discourage decline of the area.
Minimum frequency of maintenance visits:
December / January / February & March - 1no. visit each month
April to November - 2no. visits each month

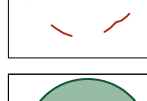
Generally, during the first 12 months:

- All planting beds to be weeded and kept weed free through hand weeding and application of an approved herbicide where appropriate.
- All litter to be picked and removed from landscape areas.
- Mulch to be topped up as required to maintain the specified thickness.
- The condition of all trees is to be regularly checked, with feet and stakes adjusted or replaced as necessary.
- Shrubs to be pruned at appropriate times of year for each species to promote healthy growth and desirable ornamental features.
- Grass lawn area and wildflower meadow areas to be cut and maintained in accordance with specification note above.
- All arisings to be removed from site.
- Any defects or plant losses occurring during the first 12 months defects period to be replaced at the contractors expense.

Following the initial 12 month establishment period the ongoing landscape management will be the responsibility of an commercial landscape maintenance contractor under a landscape maintenance contract.

SOFT LANDSCAPE KEY:

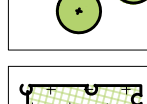
 Existing trees/vegetation to be removed in order to facilitate the proposed development.

 Existing trees/tree buffer to be retained Retained and protected during construction and landscape works in accordance with BS5837:2012 guidance

 Proposed trees in soft landscape Refer to plant schedule for species & specification

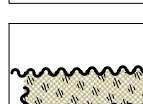
 Proposed native trees in soft landscape Refer to plant schedule for species & specification

 Proposed specimen shrub planting Refer to plant schedule for species & specification

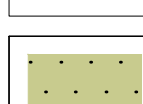
 Proposed ornamental & groundcover shrub planting Refer to plant schedule for species & specification

 Proposed mixed species native boundary Planting Refer to plant schedule for species & specification

 Proposed formal hedge planting Refer to plant schedule for species & specification To be maintained at 1.2m high

 Proposed mixed species native hedge planting Refer to plant schedule for species & specification To be maintained at 1.6m high

 Existing grass area to be retained

 Proposed close mown grassland To be species rich flowering lawn - Emorsgate EL1 - Flowering Lawn Mixture

 Proposed shade tolerant Wildflower grassland To be Hedgerows and shaded areas WFG8 by Germinal Amenity

 Proposed species rich Wildflower grassland To be Emorsgate EM2 - Standard General Purpose Meadow mixture

 Proposed wetland Wildflower grassland To be Emorsgate EM8 - Meadow mixture for Wetlands

 Proposed ornamental bark mulch surface finish

- 1m dia of ornamental bark mulch in accordance with BS8545:2014 recommendations
- 500mm maintenance strip

NOTE: Provision of Bat boxes should be installed on several retained mature trees along the eastern boundary, away from disturbance and light spill as per ecologists recommendations. For more information refer to : Bat Activity Survey Ref: R-3806-04 by Brooks Ecological

PLANTING SCHEDULES:

Trees						
Species	Abb.	Form	Girth (cm)	Height (cm)	Clear stem (cm)	Root
Acer campestre 'Streetwise'	AcS	Standard Extra Heavy	14-16	425-600	175-200	RB 9
Betula pendula	Bp	Standard selected	10-12	300-350	175-200	RB 6
Cornus sanguinea	Cs	Standard Extra Heavy	16-18	mix 450	min 200	RB 1
Ilex aquifolium	Is	40-60 C (UK grown)	/	/	/	RB 1
Prunus spinosa	Ps	10-100 UK Cell grown	/	/	/	RB 1
Ulex europaeus	Ue	80-100 UK Cell grown	/	/	/	RB 1
Viburnum opulus	Va	80-100 UK Cell grown	/	/	/	RB 1

Formal Hedge Planting:				
Name	Abb.	Height (cm)	Root	Form
Cornus betulus	Cb	80-100	RB	Bushy, Clipped sides
Notes:				
* Hedge plants to be planted in single rows at centres noted above. To be maintained at 1.2m high				

Mixed Species Native Boundary Hedge Planting:						
Name	Abb	Height (cm)	Root	Container	Habit	% in Mix
Acer campestre	Ac	80-100	UK Cell grown	/	Transplant - seed raised	10%
Corylus avellana	Ca	80-100	UK Cell grown	/	Branched	20%
Cornus sanguinea	Cs	80-100	UK Cell grown	/	Branched	10%
Ilex aquifolium	Is	40-60	C (UK grown)	SL	Leader & Lateralis	10%
Prunus spinosa	Ps	80-100	UK Cell grown	/	Branched	10%
Ulex europaeus	Ue	80-100	UK Cell grown	/	Transplant - seed raised	30%
Viburnum opulus	Va	80-100	UK Cell grown	/	Branched	10%

Notes:
* Hedge species to be planted in a double staggered row at 500mm centres, 400mm between rows
* Hedge to be maintained at a maximum height of 1.6m
* Hedge plants to be protected with 600mm tubex shelter/guard shrub shelters supported by 32mm x 32mm treated stakes to be protected by Mesh Tree Guard shelter
* Hedges to be planted within off the fully bio-degradable weed control membrane to suppress weeds and conserve ground moisture. Product: Ecotac MulchMat by Hy-Tex or similar approved. Installed and secured with ground pegs in accordance with manual.
* Stakes to be sourced as local to the site as possible and "UK-Grown" in accordance with current bio-security best practice.