Blowers Wood, Hempstead (north of Maidstone Road, Gillingham).
Planning Ref: MC/23/0284

Biodiversity Net Gain Assessment (Updated)

January 2024

Quality Management	
Client:	Redrow Homes Limited
Project:	Blowers Wood, Hempstead (north of Maidstone Road, Gillingham)
Report Title:	Biodiversity Net Gain Assessment
Project Number:	ECO-6514
File Reference:	6514 BNG TN vf2 JW/MRD
Date:	31/01/2024

Copyright

Legal Guidance

The information set out within this report in no way constitutes a legal opinion on the relevant legislation (refer to the relevant Appendix for the main provisions of the legislation). The opinion of a legal professional should be sought if further advice is required.

Liability

This report has been prepared for the exclusive use of the commissioning client and unless otherwise agreed in writing by Aspect Ecology no other party may use, or rely on the contents of the report. No liability is accepted by Aspect Ecology for any use of this report, other than for the purposes for which it was originally prepared and provided. No warranty, express or implied, is made as to the advice in this report. The content of this report is partly based on information provided by third parties; Aspect accepts no liability for any reliance placed on such information. This report is subject to the restrictions and limitations referenced in Aspect Ecology's standard Terms of Business.

Contact Details

Aspect Ecology Ltd
Hardwick Business Park I Noral Way I Banbury I Oxfordshire OX16 2AF
t 01295 279721 e info@aspect-ecology.com
w www.aspect-ecology.com

Contents

Text:

Plans:

Appendices:

1 Introduction

1.1 Background and Proposals

1.1.1 Aspect Ecology is advising Redrow Homes Limited in respect of ecological issues relating to land at Blowers Wood, Gillingham, proposed for new residential development.

1.1.2 Aspect Ecology have previously undertaken a Biodiversity Net Gain (BNG) Assessment, using metric version 3.1 to accompany the application (planning ref: MC/23/0284) to determine the level of biodiversity net gain that could be achieved under the scheme. Since that time the development layout has been amended in response to comments received from consultees.

1.1.3 Since the original metric was carried out using version 3.1, to ensure consistency, we have continued with the same metric version as opposed to updating it to the most recent Statutory Metric which will become mandatory for new Outline Planning applications submitted after February 12th 2024.

1.1.4 The biodiversity metric has been developed by Natural England and informed by biodiversity net gain guidance developed by CIRIA, CIEEM and IEMA.

1.1.5 KCC have also provided some preliminary comments on the first BNG Assessment. Information is included in their two consultation responses to the planning application (dated 27 March 2023 and 26 September 2023 respectively). This amended BNG Assessment addresses any advice provided in these consultation responses. In addition, further narrative is provided in the form of a separate Technical Note (Aspect Ecology TN02: Response to KCC Ecology Consultation Comments), dated 31st January 2024.

1.2 Biodiversity Net Gain

Environment Act

1.2.1 The Environment Act establishes a comprehensive legal framework for environmental improvement within the UK, forming one of the key measures to deliver the vision set out under the 25 Year Environment Plan.

1.2.2 Intended to establish the structure for long-term environmental governance and accountability and includes key measures to drive improvements for nature. In particular, it lays the foundation for a Nature Recovery Network, and introduces a mandatory requirement for biodiversity net gain in the planning system, to ensure that new developments enhance biodiversity and create new green spaces for local communities to enjoy. This will require developments to deliver a 10% improvement in biodiversity value, and will become a legal requirement once fully implemented on 12th February 2024.

Good Practice Principles for Development

1.2.3 CIRIA, CIEEM and IEMA have developed a set of principles on good practice to achieve Biodiversity Net Gain[1], accompanied by a practical guide[2]. These principles provide a framework that helps improve the UK's biodiversity by contributing towards strategic priorities to conserve and enhance nature while progressing with sustainable development.

[1] CIEEM, CIRIA, IEMA (2016) *Biodiversity Net Gain: Good practice principles for development.*
[2] CIEEM, CIRIA, IEMA (2019) *Biodiversity Net Gain: Good practice principles for development. A practical guide.*

They also provide a way for industry to show that projects follow good practice. Ten key principles are identified:

1) **Apply the Mitigation Hierarchy.** Do everything possible to first avoid and then minimise impacts on biodiversity. Only as a last resort, and in agreement with external decision-makers where possible, compensate for losses that cannot be avoided. If compensating for losses within the development footprint is not possible or does not generate the most benefits for nature conservation, then offset biodiversity losses by gains elsewhere.

2) **Avoid losing biodiversity that cannot be offset by gains elsewhere.** Avoid impacts on irreplaceable biodiversity - these impacts cannot be offset to achieve No Net Loss or Net Gain.

3) **Be inclusive and equitable.** Engage stakeholders early, and involve them in designing, implementing, monitoring and evaluating the approach to Net Gain. Achieve Net Gain in partnership with stakeholders where possible, and share the benefits fairly among stakeholders.

4) **Address risks.** Mitigate difficulty, uncertainty and other risks to achieving Net Gain. Apply well-accepted ways to add contingency when calculating biodiversity losses and gains in order to account for any remaining risks, as well as to compensate for the time between the losses occurring and the gains being fully realised.

5) **Make a measurable Net Gain contribution.** Achieve a measurable, overall gain for biodiversity and the services ecosystems provide while directly contributing towards nature conservation priorities.

6) **Achieve the best outcomes for biodiversity.** Achieve the best outcomes for biodiversity by using robust, credible evidence and local knowledge to make clearly-justified choices when:

    - Delivering compensation that is ecologically equivalent in type, amount and condition, and that accounts for the location and timing of biodiversity losses
    - Compensating for losses of one type of biodiversity by providing a different type that delivers greater benefits for nature conservation
    - Achieving Net Gain locally to the development while also contributing towards nature conservation priorities at local, regional and national levels
    - Enhancing existing or creating new habitat
    - Enhancing ecological connectivity by creating more, bigger, better and joined areas for biodiversity

7) **Be additional.** Achieve nature conservation outcomes that demonstrably exceed existing obligations (i.e. do not deliver something that would occur anyway).

8) **Create a Net Gain legacy.** Ensure Net Gain generates long-term benefits by:

    - Engaging stakeholders and jointly agreeing practical solutions that secure Net Gain in perpetuity
    - Planning for adaptive management and securing dedicated funding for long-term management
    - Designing Net Gain for biodiversity to be resilient to external factors, especially climate change
    - Mitigating risks from other land uses

- Avoiding displacing harmful activities from one location to another
- Supporting local-level management of Net Gain activities

9) **Optimise sustainability.** Prioritise Biodiversity Net Gain and, where possible, optimise the wider environmental benefits for a sustainable society and economy.

10) **Be transparent.** Communicate all Net Gain activities in a transparent and timely manner, sharing the learning with all stakeholders.

1.3 Local Policy

Medway Borough Council Local Plan 2003

1.3.1 Planning policy in Medway Council, in respect of housing development, is set out within saved policies of the Council's Local Plan 2003. A new Local Plan is currently being drafted however this is not currently published, and is not anticipated to be adopted until 2023. As such the 2003 Local Plan remains the current local policy relating to the site.

1.3.2 A number of 'saved policies' within Medway's Local Plan are of relevance to ecology and nature conservation. These are:

- **BNE6 – Landscape design.** This policy largely relates to landscape, however it references ecology in part, stating proposals should "*support wildlife by the creation or enhancement of semi-natural habitats and the use of indigenous plant material where appropriate*".

- **BNE22 – Environmental Enhancement.** This policy states that applications which lead to the protection and improvement of the environment will be supported.

- **BNE35 – International and national conservation sites.** This policy states that international and national conservation sites will be given long term protection. Proposals that would harm the wildlife interest of such designations would not be permitted.

- **BNE36 – Strategic and Local Nature Conservation Sites.** This policy relates to Sites of Nature Conservation Interest and Local Nature Reserves, and states that proposals affecting such sites would not normally be permitted.

- **BNE37 – Wildlife Habitats.** This policy builds on the above and states that developments resulting in losses of important habitat would not be permitted unless there is an overriding need for the development, the development is designed to minimise this loss and appropriate compensation measures are provided.

- **BNE38 – Wildlife corridors and stepping stones.** This policy encourages the provision of habitats including those which form part of a wider network or wildlife corridors and stepping stones within the wider landscape.

- **BNE39 – Protected species.** Development which would harm any statutorily protected species or their habitats would not be permitted.

- **BNE42 – Hedgerow Retention**. This policy states '*important hedgerows will be retained and protected*.'

- **BNE43 – Trees on development sites.** This policy encourages developments to retain trees, hedgerows and woodland.

Medway Green and Blue Infrastructure Framework Consultation Draft (October 2021)

1.3.3 The Medway Green and Blue Infrastructure Framework sets out the councils plan for green and blue infrastructure planning going forward. This approach includes the target of 20% Biodiversity Net Gain through development to ensure development is sustainable.

2 Methodology

2.1 Habitat Survey

2.1.1 The site was surveyed in late April 2022 in order to ascertain the general ecological value of the land contained within the boundaries of the site and to identify the main habitats and ecological features present.

2.1.2 The site was surveyed based on standard Phase 1 Habitat Survey methodology3, whereby the habitat types present are identified and mapped, together with an assessment of the species composition of each habitat. The site was classified into areas of similar botanical community types, with a representative species list compiled for each habitat identified. The nomenclature used for plant species is based on the Botanical Society for the British Isles (BSBI) Checklist.

2.1.3 A further visit was made in January 2024 to verify that the condition of the habitats within the site had not substantially changed. Although this was carried out at a sub-optimal time of year, it is considered to be adequate for the purposes of verifying any changes.

2.1.4 In line with guidance[4], the fine scale minimum mapping unit (MMU) of 25m2 or 5m in length has been used where possible / relevant.

2.2 Survey Constraints and Limitations

2.2.1 All of the species that occur in each habitat would not necessarily be detectable during survey work carried out at any given time of the year, since different species are apparent during different seasons. The Phase 1 habitat survey was undertaken within the optimal season (especially for grassland surveys) and therefore a robust assessment of the habitats and botanical interest across the site could be made.

2.3 Biodiversity Net Gain Assessment

2.3.1 To quantify the level of biodiversity net gain that can be delivered under the proposed development, the change in biodiversity value resulting from the scheme has been calculated using the Metric 3.1 calculation tool and associated user guide[5]. This takes account of the size, distinctiveness and ecological condition of existing and proposed habitat areas to provide a proxy measure of the present and forecast biodiversity value of a site, and therefore determine the overall change in biodiversity value. These calculations are provided at Appendix 6514/1.

2.3.2 To establish the habitat baseline, broad habitat areas have been identified based on the survey work undertaken at the site, with habitat condition assigned based on the guidance set out in the Technical Supplement[6] and professional judgement. Multiple quadrats were sampled within the grassland areas, in order to assess the number of species present.

---

[3] Joint Nature Conservation Committee (2010, as amended) *'Handbook for Phase 1 habitat survey: A technique for environmental audit.'*

[4] The UK Habitat classification User Manual. Version 2.01. July 2023

[5] Natural England (May 2022) *Natural England Joint Publication JP039. Biodiversity Metric 3.1: auditing and accounting for biodiversity – User Guide.*

[6] Natural England (November 2023). *The Statutory Biodiversity Metric: Technical Annex 1: Condition Assessment and Methodology.*

2.3.3 The post-development habitat creation and enhancement is based on the drawing '10745-FPCR-ZZ-XX-DR-L-0003-0008 P08 Detailed Planting', a copy of which is included at Appendix 6514/3. A number of assumptions have been made in terms of the detailed landscaping and management proposals, based on comparative developments and what is realistic and feasible under the proposed land uses and landscape space types. Further details of assumptions made in populating the metric are provided in Chapter 4 below.

3 Habitats and Ecological Features

3.1 Overview

3.1.1 The site is dominated by grassland fields formerly used as pasture, which are relatively unmanaged in nature and partially bound by hedgerows. In addition, a number of other habitats are present including areas of ruderal vegetation and hardstanding.

3.1.2 The following habitats/ecological features were identified within/adjacent to the site:

- Semi-Improved species-poor grassland (including encroaching bramble scrub);
- Mixed Scrub; and
- Hedgerows.

3.1.3 The locations of these habitat types and features are illustrated on Plan 6514/BNG1 and described in detail below.

3.2 Semi-improved Grassland

3.2.1 The site is dominated by a single pastoral field (3.1ha), which is bisected by a footpath, fenced on either side. It is described below.

3.2.2 The field comprises species-poor semi-improved grassland, with an uneven tussocky height of sward. The field is bound by woodland and one hedgerow (see Sections 4.5 and 4.8 below). The grassland is species-poor (<6 species per m^2) and shows signs of previous improvement. Grasses included with the sward include Cock's-foot *Dactylis glomerata*, Perennial Rye-grass *Lolium perenne*, Yorkshire Fog *Holcus lanatus*, Red Fescue *Festuca rubra*, Crested Dog's-tail *Cynosurus cristatus*, whilst there are also a small number of common herbaceous species, including Selfheal *Prunella vulgaris*, Creeping Bent *Agrostis stolonifera*, Spear Thistle *Cirsium vulgare*, Common Ragwort *Jacobaea vulgaris*, Ribwort Plantain *Plantago lanceolata*, and Common Dog Violet *Viola riviniana*. In the eastern corner of the field there is a patch of Giant Hogweed *Heracleum mantegazzianum*, which is an invasive species listed under Schedule 9 of the Wildlife and Countryside Act 1981. Scattered throughout the grassland are patches of dense bramble scrub (location as shown on Plan 6514/ECO3). Further details are provided in the Invasive Species section below.

Within the Statutory Biodiversity Metric, this area is classified as 'Grassland – Modified grassland' and designated as having 'low' distinctiveness. Within the condition assessment matrix, the single pastoral field had fewer than 8 species per m^2 and failed to closely match the characteristics of a specific habitat type. Therefore, it was assessed against 'Grassland (low distinctiveness)'. It failed in two categories, having fewer than 6-8 species per m^2 and the presence of Schedule 9 invasive species. The field was therefore designated as being in 'Poor' condition.

3.2.3 There was no significant changes to this habitat observed during the updated survey in January 2024.

3.2.4 Scrub

3.2.5 There is one area of mixed scrub within site. This forms the frontage of the site, adjacent to Maidstone Road along the south-east boundary.

3.2.6 The scrub area comprises loose scattered trees and scrub along a wide ditch line, and contains Hawthorn, Oak, Field Maple, Ash, Hazel, Sycamore, Horse Chestnut, Cherry and Apple. All individual trees present are within the age category young/semi-mature. The ground flora is sparse, and includes species such as Nettles, occasional Lords and Ladies, Bramble and abundant leaf litter.

3.2.7 The scrub is categorised as 'Heathland and Scrub – Mixed Scrub'. It fails on three of the five condition parameters ('Habitat representative of UKHab Description', 'Good age range' and 'Presence of Schedule 9 invasive species', with the latter being on account of the presence of Giant Hogweed). It passes the remaining criteria. It is therefore coded as 'poor' condition (see Appendix 1).

3.2.8 The vast majority of the mixed scrub will be retained and enhanced with the exception of a small area (0.1ha), the removal of which is required to create the proposed site entrance on the south-east boundary.

3.2.9 Areas of the Semi-Improved species poor grassland field have been colonised by Bramble Scrub for a total of 0.6ha on site. Within the Statutory Biodiversity Metric, Bramble Scrub is given a Distinctiveness of 'Medium' and Condition is pre assigned as 'Condition Assessment N/A'.

3.2.10 There was no significant changes to this habitat observed during the updated survey in January 2024.

3.3 Linear Features

3.3.1 There are no linear features (such as hedgerows and ditches) within the site. The swale to the south of the site, which is associated with sparse scrub, is not considered to meet the criteria for a Ditch within the BNG User Guide, which stipulates that these should retain water for more than 4 months of the year. Whilst a systematic study would be beyond the remit of this assessment, on all the occasions that the site was visited the feature held no standing water.

3.3.2 Similarly the feature to the south of the site does not constitute a discrete hedges, since it is a looser group of scrub having a width of at least 5m. It is therefore treated as scrub in the Habitat Units (area) part of the metric.

4 Post-development Habitats

4.1 Assumptions

4.1.1 When inputting the post-development habitat areas and condition to the Statutory Metric, the following assumptions have been made:

- Newly created habitat under the proposals will be managed appropriately to reach the assigned target condition (anticipated to be defined by a future management plan).
- A flowering lawn mix can be used within the areas of amenity (modified) grassland to maximise biodiversity benefits whilst providing an amenity habitat.
- Where new grassland creation overlaps with existing grassland in locations that would not likely be affected by works (such as those located at the site boundaries), these areas are assumed to be retained and enhanced (as indicated on Plan 6514/BNG1).
- Future management prescriptions at the site within areas of retained 'other neutral' grassland at the site periphery will be subject to a traditional meadow management regime, in order to maintain the presence of a minimum 9 species necessary to qualify as this habitat type.
- New tree planting has been provided as indicated by the proposals, with additional trees added where considered appropriate.

4.2 Strategic Significance

4.2.1 Strategic significance in the metric is assigned to give extra value to habitats that are located in optimal locations, or are of a type that meet local objectives for biodiversity.

4.2.2 The site lies at the southern tip of an area of strategic importance within the Consultation Draft of the Medway Green and Blue Infrastructure Framework (Area 4: Three Valleys – Horsted, Princes Park and Capstone). This area encompasses a wide area encompassing the three valleys through the centre of urban Medway, and a range of objectives are set out which include enhancing greenspace, protecting existing woodlands and strengthening existing corridors. That being said, the site itself at the southern extremity of the area, in an urban setting.

4.2.3 The Medway Green and Blue Infrastructure Framework has not yet been formally approved or adopted. Nevertheless, as a result of this emerging guidance, on a precautionary basis, a strategic significance 'Formerly identified in local strategy' has been applied to the habitats pre or post-development of the site.

4.3 Habitat Type and Condition

4.3.1 A summary of post-development habitat creation is set out in Tables 4.1 - 3 below. Post-development habitats are shown at Plan 6514/BNG2.

Table 4.1. Post-development Habitat Enhancement

Habitat Change	Condition Change	Condition Rationale
Grassland – Modified Grassland → Grassland – Other neutral grassland	Poor - Moderate	The existing modified grassland will be retained along the northern boundary as part of the Ancient Woodland Buffer Zone and will be enhanced to other neutral grassland. This will be achieved through scarification, followed by over-seeding with a suitable wildflower mix and implementation of traditional hay-meadow management, with infrequent cutting late in the season (after the flowering season). It is anticipated that this habitat will support a reasonable species diversity and structure, with Bracken, scrub and physical damage to be kept to minimum, allowing this habitat to likely achieve a moderate condition. Part of the area will also be planted with a tussocky mixture to provide suitable grassland habitats for reptiles.
Heathland and Mixed Scrub – Mixed Scrub	Poor – Good	The existing sparse scrub suffers from the occurrence of a stand of Giant Hogweed, which will be treated and eventually removed in accordance with the recommendations in the Ecological Appraisal. The existing sparse scrub will be interplanted with additional understory scrub planting to thicken this feature up, providing additional benefits for species (including dormouse which is known to be present), as well as providing additional age structure. Following its enhancement is expected to meet sufficient condition criteria to achieve 'good' condition.

Table 4.2. Post-development Habitat Creation

Habitat	Target Condition	Condition Rationale
Grassland – Modified Grassland → Heathland and shrub – Mixed scrub	Poor - Moderated	Part of the existing grassland within the Ancient Woodland buffer zone along the northern boundary. will be retained, and planted with a wide range of native woody species planting (>3 native species, with none comprising more 75% of the cover), which will form a mosaic with the enhanced grassland. This new scrub planting will form a light barrier for the Ancient Woodland which is situated beyond the site. No invasive or undesirable species to be included. A well-developed edge and good age range can be developed over time and planting will be in patches within wildflower grassland. The scrub is therefore expected to achieve good condition. This area will be an important source of nectar,

Habitat	Target Condition	Condition Rationale
		fruits and seed; as well as providing breeding and roosting sites for birds and other faunal species.
Heathland and shrub – Mixed scrub	Moderate	New areas of native scrub planting, which will include a range of woody species, will take place extensively along the western boundary associated with the SUDs feature, and along the south-east boundary.
Grassland - Other Neutral Grassland	Moderate	A number of areas of new 'Other Neutral Grassland' will be created, following site completion – notably those forming the SuDS basins (a wet meadow grassland which will remain dry for most of the time), together with the site margins on the NE, SE and SW boundaries, being proposed to become a mix of Wildflower/Meadow/Tussock Grassland. These will be re-seeded with a species mix grass-seed mix, and managed through a sensitive cutting regime, which it is anticipated will them to achieve the status of medium distinctiveness 'Other Neutral Grassland'. It is expected that the grassland can achieve 'moderate' condition since it will support the required species diversity and structure, with Bracken, scrub and physical damage to be kept to minimum.
Grassland – Modified Grassland	Poor	Areas of amenity grassland to be created near to the built development and within recreational areas such as the play area and picnic area.
Woodland and forest – Other woodland; broadleaved The transitional habitat 'Heathland and shrub – Mixed scrub' has been assumed.	Good	The area planted along the northern site boundary, adjacent to the off-site ancient woodland to provide a strip of Landscape Buffer Enhancement Planting Mix. Planting mix comprises a total of 13 different species, comprising; *Acer campestre*, *Cornus sanguinea*, *Corylus avellana*, *Crataegus monogyna*, *Ilex aquifolium*, *Ligustrum vulgare*, *Malus sylvestris*, *Prunus spinosa*, *Rhamnus cathartica*, *Rosa arvensis*, *Rosa canina*, *Sorbus aucuparia* and *Viburnum opulus*, planted randomly throughout. In total >4,033 specimens to be planted within this landscape buffer, with ecotone diversity and variety established along the periphery of the planting strip which will be suitable for a range of bird, mammal and invertebrate species. The habitat mosaic within/along the landscape buffer planting will further provide foraging, shelter and life history opportunities for local reptile species. This patch of native woodland planting will be subject to ecological management, meeting all 5 of the required condition assessment criteria[7] in order to reach the proposed designated condition of 'Good'. When the target habitats for a project are likely to take longer than 30 years, it is accepted practice to use realistic habitats that are likely to develop in the intervening period, or 'transitional habitats'. This transitional habitat amendment has been used in this case,

[7] *Biodiversity Metric: Technical Annex 1: Condition Assessment and Methodology*

Habitat	Target Condition	Condition Rationale
		where the target time for the proposed Broadleaved Woodland is >30 years, and Mixed scrub is likely to succeed in the intervening period.
Woodland and forest – Other woodland; broadleaved The transitional habitat 'Heathland and shrub – Mixed scrub' has been assumed.	Moderate	The area planted along the southern, eastern and western site boundary to provide a strip of Landscape Buffer Enhancement Planting Mix. Planting mix comprises a total of 13 different species, comprising; *Acer campestre*, *Cornus sanguinea*, *Corylus avellana*, *Crataegus monogyna*, *Ilex aquifolium*, *Ligustrum vulgare*, *Malus sylvestris*, *Prunus spinosa*, *Rhamnus cathartica*, *Rosa arvensis*, *Rosa canina*, *Sorbus aucuparia* and *Viburnum opulus*, planted randomly throughout. In total >4,033 specimens to be planted within this landscape buffer, with ecotone diversity and variety established along the periphery of the planting strip which will be suitable for a range of bird, mammal and invertebrate species. The habitat mosaic within/along the landscape buffer planting will further provide foraging, shelter and life history opportunities for local reptile species. This patch of native woodland planting will be subject to ecological management in order to reach the proposed designated condition of 'Moderate'. When the target habitats for a project are likely to take longer than 30 years, it is accepted practice to use realistic habitats that are likely to develop in the intervening period, or 'transitional habitats'. This transitional habitat amendment has been used in this case, where the target time for the proposed Broadleaved Woodland is >30 years, and Mixed scrub is likely to succeed in the intervening period.
Urban – Introduced Shrub	N/A	Limited areas of introduced shrub will be planted surrounding houses and frontages within the main development complex as resilient urban flora species. The extent of these habitats has been scaled back following comments from KCC Ecology.
Urban – Vegetated garden	N/A	This includes the gardens of the proposed properties. No assessment for the condition of this habitat is required.
Urban – Developed Land; Sealed Surface	N/A	This includes all roads, parking and buildings within the site. No assessment for the condition of this habitat is required.
Urban – Urban tree	Moderate	The landscape proposals include details of trees and their planting sizes. 20 Street trees (comprising 10 *Carpinus betulus 'Fastigata Frans Fontaine'* and 10 *Crataegus monogyna 'Stricta'* specimens), and 6 *Betula pendula* (of 18-20cm girth) are proposed throughout the public open space. At this initial planting size (Extra Heavy Standard), and based on known estimated growth rates, these trees are expected to achieve medium size (>30cm), and moderate condition within 30 years, with suitable management.

Habitat	Target Condition	Condition Rationale
		The Tree Helper Tool has been used to calculate the corresponding root protection area (RPA), which is then entered into the Metric.
Urban – Urban tree	Moderate	It is proposed to plant 78 smaller native trees throughout the public open space areas and streetscape. These will be of a range of planting sizes. However, are expected to achieve the 'small' size category within the designated 30 years. This native tree planting will include 7 different native tree species, such as Field Maple, Silver birch, Hawthorn 'stricta', Japanese cherry and Common Pear. The Tree Helper Tool has been used to calculate the corresponding rot protection area (RPA), which is then entered into the Metric. On a precautionary basis, the weighting provided under the new Statutory Metric have been used, instead of those for v3.1 since they are less generous with respect to the area allowed for proposed trees.

Table 4.3. Post-development Linear Feature (Hedgerow) Creation

Habitat	Target Condition	Condition Rationale
Species-rich Native Hedgerow	Moderate	A total of 1.135 km of native species-rich mixed hedgerows will be planted (comprising Field Maple, Dogwood, Hazel, Hawthorn, Spindle and Holly). Through suitable management these would be expected to reach 'Moderate' condition.
Native Hedgerow	Poor	Elsewhere within the site, where a more formal setting it required, there are some sections of single-species hedgerows (comprising Beech), which amount to a further 320m (0.32km). These are expected to be managed more intensely, including regular clipping, and as such are these expected to be limited to 'Poor' condition.

5 Biodiversity Net Gain Assessment Results

5.1 Metric calculation

5.1.1 The data from the baseline habitat survey work and the proposed habitat enhancement and creation works have been coded into the Metric.

5.1.2 In summary, the Metric indicates that the development will result in a 2.29 (20.99%) gain in habitat units for biodiversity. The results are broken down in Table 5.1 below:

Table 5.1 Net gain results

	Change in Units	% Change
Habitats	2.29	20.99%
Hedgerows	3.55	N/A

5.1.3 An N/A figure is given for the net gain achieved with hedgerow planting on site as there are zero baseline units from which to calculate a % loss/gain. However, generous hedgerow planting (1.135km of native species-rich hedgerow, and 0.32km of single-species native hedgerow) has ensured that whilst unquantified in percentage terms, a significant gain in linear habitats gain will be delivered.

5.1.4 The trading summary indicates that the rules are satisfied, due to the provision of medium distinctiveness habitats throughout the development proposals. As far as practicable this habitat has been retained and enhanced, whilst new management prescriptions will benefit both the retained and new grassland provision. In addition, generous new tree provision will provide new medium distinctiveness habitat throughout the site.

5.2 Additional faunal benefits not captured by the Metric

5.2.1 Further biodiversity benefits will be provided by faunal enhancements, for example through the provision of new bat and bird boxes, hedgehog domes and bee bricks. Such faunal enhancements are not quantified under the Metric as this deals with habitats alone and does not address faunal benefits. In addition, the value of a number of new gardens will likely be of higher value than the stipulated condition under the Metric.

6 Summary and Conclusions

6.1.1 Aspect Ecology is advising Redrow Homes Limited in respect of ecological issues relating to land at Blowers Wood, Gillingham, proposed for new residential development.

6.1.2 To inform the application, Aspect Ecology has undertaken a BNG assessment to determine the level of biodiversity net gain that could be achieved under the scheme, based on the Metric 3.1 calculation tool.

6.1.3 The scheme includes the planting of an additional 0.46ha of Mixed Scrub in comparison with the previous metric, predominantly along the boundaries of the site, forming a wildlife corridor and an extensive buffer between the Ancient Woodland and the built development. The largest gains within the Biodiversity Metric are from the establishment of these proposed areas of Mixed scrub (delivering 4.41 biodiversity units) and tree planting (delivering 2.61 biodiversity units).

6.1.4 The metric demonstrates that a 20.99% biodiversity net gain is achieved in habitat units and N/A in hedgerow units. This is sufficient to meet the National level of biodiversity net gain which will be introduced by the Environment Act in the coming months (10%) and also the more stringent emerging local (Medway) biodiversity net gain of 20%.

Plan 6514/BNG1:

Existing Habitats

Key:

- Site Boundary
- Modified grassland (3.1525ha)
- Bramble scrub (0.6475ha)
- Mixed scrub (0.1525ha)
- Developed land; sealed surface: Hardstanding (0.0300ha)
- Rural Tree [4]

aspect ecology

Aspect Ecology Limited - West Court - Hardwick Business Park
Noral Way - Banbury - Oxfordshire - OX16 2AF
01295 279721 - info@aspect-ecology.com - www.aspect-ecology.com

Blowers Wood, Hempstead	PROJECT
Existing Habitats	TITLE
6514/BIA1	DRAWING NO.
C/BG	REV
January 2024	DATE

P:\Project\Aspect Ecology Projects\ECO 6500\1006514\Graphics\GIS\6514 ECO 1 to 3.spr

Plan 6514/BNG2:

Post-development Habitats

Key:

- Site Boundary
- Proposed Developed land; sealed surface: Hardstanding (1.2300ha)
- Proposed Vegetated garden (0.7725ha)
- Proposed Developed land; sealed surface: Building (0.7275ha)
- Proposed Other woodland; broadleaved (0.4425ha)
- Proposed Modified grassland (0.3225ha)
- Proposed Other neutral grassland (0.3100ha)
- Retained Mixed scrub (0.0575ha)
- Proposed Introduced shrub (0.0525ha)
- Proposed Sustainable drainage system (0.0500ha)
- Proposed Mixed scrub (0.0175ha)
- Proposed Species-rich native hedgerow (1.135km)
- Proposed Native hedgerow (0.32km)
- Proposed Rural Tree [50]
- Proposed Urban Tree [57]

aspect ecology

Aspect Ecology Limited - West Court - Hardwick Business Park
Noral Way - Banbury - Oxfordshire - OX16 2AF
01295 279721 - info@aspect-ecology.com - www.aspect-ecology.com

Blowers Wood, Hempstead	PROJECT
Proposal Habitats	TITLE
6514/BIA2	DRAWING NO.
C/BG	REV
January 2024	DATE

P:\Project\Aspect Ecology Projects\ECO 6500\U006514\Graphics\Gis\6514 ECO 1 to 3.qgz

Appendix 6514/1:

Habitat Condition Summary

HABITAT CONDITION ASSESSMENT MATRIX FOR METRIC 3.1

PROJECT NAME: Blowers Wood
PROJECT NUMBER: 1006514

	Habitat type/criteria	Feature Reference							
Grassland (low distinctiveness)		**Main Fields**							
1	6-8 species per m2	Fail							
2	Varied sward height (>20% less than 7cm, >20% more than 7cm)	Pass							
3	Less than 20% scrub	Pass							
4	Less than 5% subject to physical damage (excessive poaching, machinery use/storage etc)	Pass							
5	Cover of bare ground between 1 and 10%	Fail							
6	Less than 20% bracken	Pass							
7	Absence of Sch9 invasive species	Fail							
Condition		**Poor**							
Grassland (medium distinctiveness and above)									
1	Closely matches characteristics of specific habitat type								
2	Varied sward height (>20% less than 7cm, >20% more than 7cm)								
3	Cover of bare ground between 1 and 5%								
4	Less than 20% bracken and 5% scrub								
5	Absence of Sch9 invasive species and less than 5% combined undesirable species (C Thistle, Sp Thistle, Docks, Nettle, C Buttercup, G Plantain, W Clover, Cow Parsley) or physical damage (excessive poaching, machinery use/storage etc)								
6	**Non-acid grasslands only:** Greater than 9 species per m2								
Condition									
Traditional orchard									
1	Presence of ancient and/or veteran trees								
2	Less than 5% of trees smothered by scrub, less than 10% scrub ground cover								
3	Evidence of formative and/or restorative pruning to maintain longevity of trees								
4	Presence of standing and/or fallen dead wood								
5	At least 95% of trees free from damage caused by humans or animals (e.g. browsing, bark stripping, rubbing)								
6	Sward height is varied (between 5-30cm) and small patches of bare ground present, up to 10% cover of tall herb vegetation								
7	Grassland species richness equivalent to medium, high or very high distinctiveness grassland (more than 9 species per m2)								
8	Absence of Sch9 invasive species and less than 10% undesirable species (C Thistle, Sp Thistle, Docks, Nettle)								
Condition									
Pond									
1	Good water quality with clear water and no obvious signs of pollution. Turbidity acceptable if grazed by livestock.								
2	Semi-natural habitat (moderate distinctiveness or above) at least 10m from pond edge.								
3	Less than 10% duckweed or filamentous algae								
4	Pond not artifically connected to other waterbodies								
5	Pond water levels able to fluctuate naturally throughout year - no obvious dams, pumps or pipework								
6	Absence of non-native plant and animal species								
7	Pond is not artifically stocked with fish. If naturally contains fish is a native fish assemablage at low densities.								
8	**Non-woodland ponds only:** Emergent, submerged or floating plants cover at least 50% of pond area that is less than 3m deep								
9	**Non-woodland ponds only:** Less than 50% shaded by woody bankside species								
Condition									
Scrub		**Mixed Scrub (S)**	**Bramble Scrub**						
1	Habitat is representative of UKHab description. At least 3 woody species, with no one species more than 75% cover (except Juniper, Sea Buckthorn and Box)	Fail							
2	Good age range with seedlings, young shrubs and mature shrubs present	Fail							
3	Absence of Sch9 invasive species and less than 5% undesirable species (C Thistle, Nettle, Cherry Laurel, Snowberry, Buddleia, Cotoneaster, Spanish Bluebell)	Fail							
4	Scrub has well developed edge with scattered scrub and tall grassland/herbs present between scrub and adjacent habitats	Pass							
5	Clearings, glades or rides present providing sheltered edges	Pass							
Condition		**Poor**							

Appendix 6514/2:

Metric 3.1 Results

The Biodiversity Metric 3.1 - Calculation Tool
Start page

Project details	
Planning authority:	Medway Council
Project name:	Blowers Wood, Hempstead
Applicant:	Redrow
Application type:	Outline Planning Application (Access in Detail)
Planning application reference:	MC/23/0284
Assessor:	Jonathan Wild
Reviewer:	Mark Doughty
Metric version:	vf2
Assessment date:	31/01/2024
Planning authority reviewer:	

Instructions

Main menu

Results

Cell style conventions

	Enter data
	Automatic lookup
	Result

View all

Reset view

Blowers Wood, Hempstead

Headline Results

Return to results menu

On-site baseline	*Habitat units*	10.93
	Hedgerow units	0.00
	River units	0.00
On-site post-intervention (Including habitat retention, creation & enhancement)	*Habitat units*	13.22
	Hedgerow units	0.00
	River units	0.00
On-site net % change (Including habitat retention, creation & enhancement)	*Habitat units*	20.99%
	Hedgerow units	0.00%
	River units	0.00%
Off-site baseline	*Habitat units*	0.00
	Hedgerow units	0.00
	River units	0.00
Off-site post-intervention (Including habitat retention, creation & enhancement)	*Habitat units*	0.00
	Hedgerow units	0.00
	River units	0.00
Total net unit change (including all on-site & off-site habitat retention, creation & enhancement)	*Habitat units*	2.29
	Hedgerow units	0.00
	River units	0.00
Total on-site net % change plus off-site surplus (including all on-site & off-site habitat retention, creation & enhancement)	*Habitat units*	20.99%
	Hedgerow units	0.00%
	River units	0.00%
Trading rules Satisfied?		Yes ✓

Blowers Wood, Hampstead

Detailed Results

Return to results menu

Summary Figures

Net project biodiversity units (including all on-site & off-site habitat retention/creation)		
	Habitat units	2.39
	Hedgerow units	0.00
	River units	0.00

Total project biodiversity % change (including all On-site & Off-site Habitat Creation + Retained Habitats)		
	Habitat units	20.99%
	Hedgerow units	0.00%
	River units	0.00%

Combined habitat retention and enhancement

	Habitats	Hedgerows	Rivers
Total on-site and off-site baseline area / length	3.98	0.00	0.00
Total on-site and off-site baseline units	10.93	0.00	0.00
Total on-site and off-site baseline area / length retained	0.00	0.00	0.00
Total on-site and off-site baseline units retained	0.00	0.00	0.00
Area / length proposed for enhancement	0.32	0.00	0.00
Baseline units proposed for enhancement	0.88	0.00	0.00
Total on-site and off-site baseline area / length lost	3.66	0.00	0.00
Total on-site and off-site baseline units lost	10.06	0.00	0.00

Area Habitats

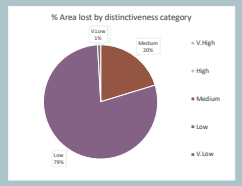
Area habitats

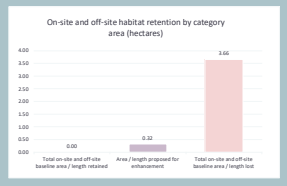
On site change by broad habitat type

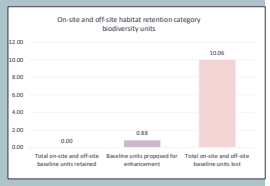
Habitat group	Baseline: Existing area	Baseline: Existing value	Post development on site: Proposed area	Post development on site: Proposed value	Onsite Change: Area change	Onsite Change: Onsite Unit change
Cropland	0.00	0.00	0.00	0.00	0.00	0.00
Grassland	3.15	7.25	0.68	3.74	-2.47	-3.51
Heathland and shrub	0.80	3.68	0.52	5.05	-0.28	1.37
Lakes	0.00	0.00	0.00	0.00	0.00	0.00
Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00	0.00
Urban	0.03	0.00	3.52	4.44	3.49	4.44
Wetland	0.00	0.00	0.00	0.00	0.00	0.00
Woodland and forest	0.00	0.00	0.00	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00	0.00	0.00	0.00
Coastal saltmarsh	0.00	0.00	0.00	0.00	0.00	0.00
Rocky shore	0.00	0.00	0.00	0.00	0.00	0.00
Coastal lagoons	0.00	0.00	0.00	0.00	0.00	0.00
Intertidal Hard Structures	0.00	0.00	0.00	0.00	0.00	0.00

Combined area lost by distinctiveness band

Category	Area lost (hectares)	Area lost (%)
V.High	0	
High	0	
Medium	0.7495	20
Low	2.8668	79
V.Low	0.05	1

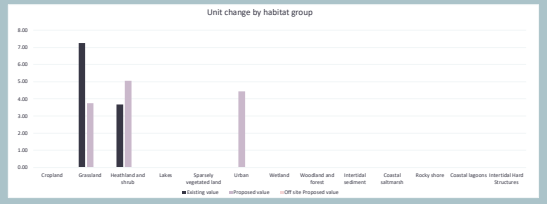


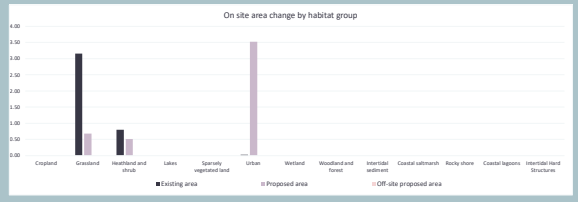




Off site change by broad habitat type

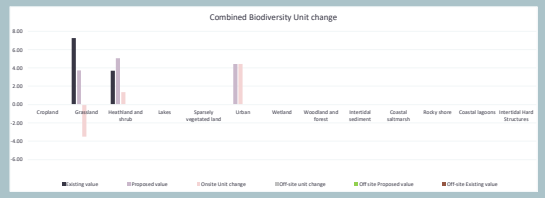
Habitat group	Baseline: Existing area	Baseline: Off-site Existing value	Post development Off-site: Off-site proposed area	Post development Off-site: Off-site Proposed value	Off-site Change: Off-site area change	Off-site Change: Off-site unit change
Cropland	0.00	0.00	0.00	0.00	0.00	0.00
Grassland	0.00	0.00	0.00	0.00	0.00	0.00
Heathland and shrub	0.00	0.00	0.00	0.00	0.00	0.00
Lakes	0.00	0.00	0.00	0.00	0.00	0.00
Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00	0.00
Urban	0.00	0.00	0.00	0.00	0.00	0.00
Wetland	0.00	0.00	0.00	0.00	0.00	0.00
Woodland and forest	0.00	0.00	0.00	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00	0.00	0.00	0.00
Coastal saltmarsh	0.00	0.00	0.00	0.00	0.00	0.00
Rocky shore	0.00	0.00	0.00	0.00	0.00	0.00
Coastal lagoons	0.00	0.00	0.00	0.00	0.00	0.00
Intertidal Hard Structures	0.00	0.00	0.00	0.00	0.00	0.00





Combined on site and off site change by broad habitat type

Habitat group	Baseline: Existing area	Baseline: Existing value	On-site and Off-site post development: Combined proposed area	On-site and Off-site post development: Combined proposed value	Combined change: Proposed area	Combined change: Proposed value
Cropland	0.00	0.00	0.00	0.00	0.00	0.00
Grassland	3.15	7.25	0.68	3.74	-2.47	-3.51
Heathland and shrub	0.80	3.68	0.52	5.05	-0.28	1.37
Lakes	0.00	0.00	0.00	0.00	0.00	0.00
Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00	0.00
Urban	0.03	0.00	3.52	4.44	3.49	4.44
Wetland	0.00	0.00	0.00	0.00	0.00	0.00
Woodland and forest	0.00	0.00	0.00	0.00	0.00	0.00
Intertidal sediment	0.00	0.00	0.00	0.00	0.00	0.00
Coastal saltmarsh	0.00	0.00	0.00	0.00	0.00	0.00
Rocky shore	0.00	0.00	0.00	0.00	0.00	0.00
Coastal lagoons	0.00	0.00	0.00	0.00	0.00	0.00
Intertidal Hard Structures	0.00	0.00	0.00	0.00	0.00	0.00



Hedgerows and Lines of Trees

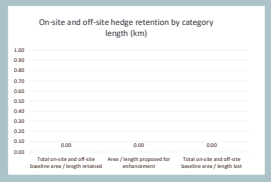
Hedgerows and lines of trees

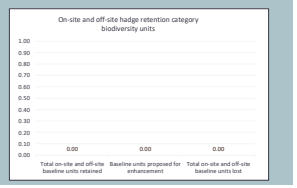
On site change by hedgerow type

Hedgerow type	Baseline: Existing length on-site	Baseline: Existing value	Post development on site: Proposed length on-site	Post development on site: Proposed value on-site	Onsite Change: On-site length change	Onsite Change: On-site Unit change
Native Species Rich Hedgerow with trees - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Species Rich Hedgerow with trees	0.00	0.00	0.00	0.00	0.00	0.00
Native Species Rich Hedgerow - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow with trees - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Species Rich Hedgerow	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow with trees	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees (Ecologically Valuable)	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees (Ecologically Valuable) - with Bank or Ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees	0.00	0.00	0.00	0.00	0.00	0.00

Combined length lost by distinctiveness band

Category	Length lost (KM)	Length lost (%)
V.High	0	
High	0	
Medium	0	
Low	0	
V.Low	0	



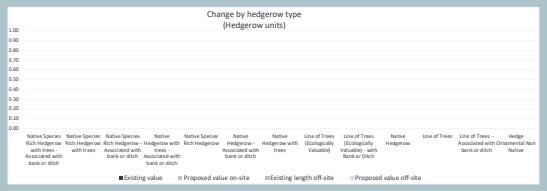


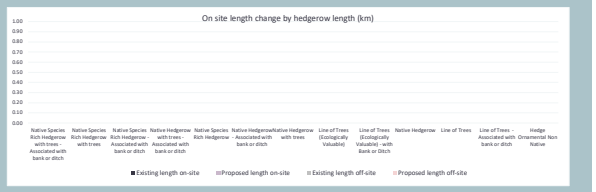
Hedgerows and Lines of Trees

Line of Trees - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Hedge Ornamental Non Native	0.00	0.00	0.00	0.00	0.00	0.00

Off site change by hedgerow type

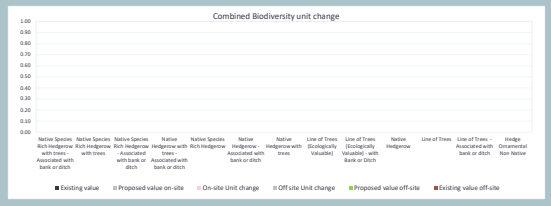
Hedgerow type	Off site baseline		Post development off site		Off site Change	
	Existing length off-site	Existing value off-site	Proposed length off-site	Proposed value off-site	Off-site length change	Off site Unit change
Native Species Rich Hedgerow with trees - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Species Rich Hedgerow with trees	0.00	0.00	0.00	0.00	0.00	0.00
Native Species Rich Hedgerow - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow with trees - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Species Rich Hedgerow	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow with trees	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees (Ecologically Valuable)	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees (Ecologically Valuable) - with Bank or Ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Hedge Ornamental Non Native	0.00	0.00	0.00	0.00	0.00	0.00

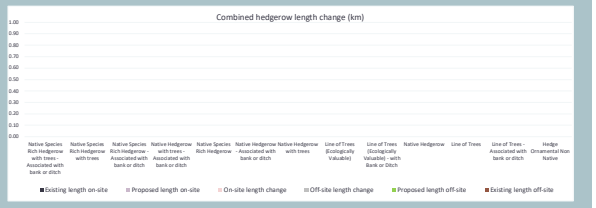




Combined on and off site change by hedgerow type

Hedgerow type	Baseline		Post development on site		Onsite Change	
	Existing length	Existing value	Proposed length	Proposed value	length change	Onsite Unit change
Native Species Rich Hedgerow with trees - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Species Rich Hedgerow with trees	0.00	0.00	0.00	0.00	0.00	0.00
Native Species Rich Hedgerow - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow with trees - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Species Rich Hedgerow	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow with trees	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees (Ecologically Valuable)	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees (Ecologically Valuable) - with Bank or Ditch	0.00	0.00	0.00	0.00	0.00	0.00
Native Hedgerow	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees	0.00	0.00	0.00	0.00	0.00	0.00
Line of Trees - Associated with bank or ditch	0.00	0.00	0.00	0.00	0.00	0.00
Hedge Ornamental Non Native	0.00	0.00	0.00	0.00	0.00	0.00





Rivers and Streams

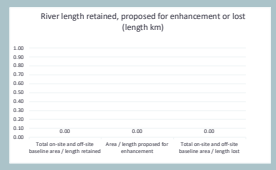
Rivers and Streams

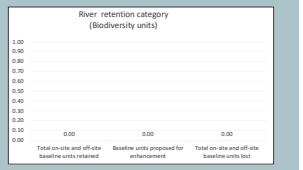
On site change by river type

River type	Baseline		Post development on site		Onsite Change	
	Existing length	Existing value	Proposed length	Proposed value	length change	Onsite Unit change
Priority Habitat	0.0	0.0	0.0	0.0	0.0	0.0
Other Rivers and Streams	0.0	0.0	0.0	0.0	0.0	0.0
Ditches	0.0	0.0	0.0	0.0	0.0	0.0
Canals	0.0	0.0	0.0	0.0	0.0	0.0
Culvert	0.0	0.0	0.0	0.0	0.0	0.0

Combined length lost by distinctiveness band

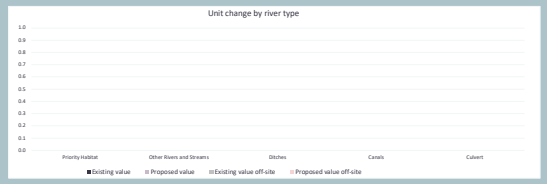
Category	Length lost (DM)	Length lost (%)
V.High	0	
High	0	
Medium	0	
Low	0	

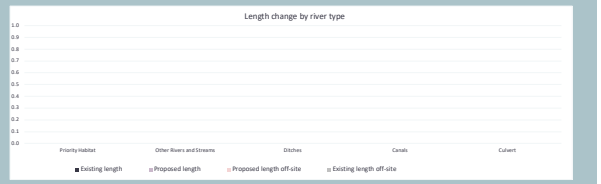




Off site change by river type

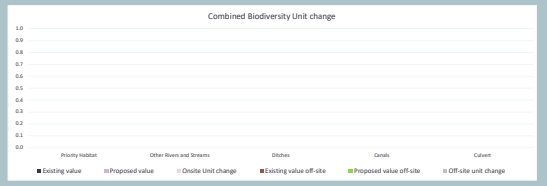
River type	Baseline		Post development off-site		Off-site Change	
	Existing length off-site	Existing value off-site	Proposed length off-site	Proposed value off-site	Off-site length change	Off-site unit change
Priority Habitat	0.0	0.0	0.0	0.0	0.0	0.0
Other Rivers and Streams	0.0	0.0	0.0	0.0	0.0	0.0
Ditches	0.0	0.0	0.0	0.0	0.0	0.0
Canals	0.0	0.0	0.0	0.0	0.0	0.0
Culvert	0.0	0.0	0.0	0.0	0.0	0.0

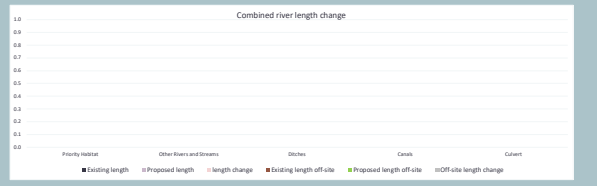




Combined on and off site change by river type

River type	Baseline		Post development on site		Onsite Change	
	Existing length	Existing value	Proposed length	Proposed value	length change	Onsite Unit change
Priority Habitat	0.0	0.0	0.0	0.0	0.0	0.0
Other Rivers and Streams	0.0	0.0	0.0	0.0	0.0	0.0
Ditches	0.0	0.0	0.0	0.0	0.0	0.0
Canals	0.0	0.0	0.0	0.0	0.0	0.0
Culvert	0.0	0.0	0.0	0.0	0.0	0.0





Trading Summary

Distinctiveness Group	Trading Rule	Trading Satisfied?
Very High	Bespoke compensation likely to be required 🛠	Yes ✓
High	Same habitat required =	Yes ✓
Medium	Same broad habitat or a higher distinctiveness habitat required (≥)	Yes ✓
Low	Same distinctiveness or better habitat required ≥	Yes ✓

Very High Distinctiveness

Habitat group	Group	On Site Unit Change	Off Site Unit Change	Project wide Unit Change	Unit Losses
Grassland - Lowland dry acid grassland	Grassland	0.00	0.00	0.00	
Grassland - Lowland meadows	Grassland	0.00	0.00	0.00	
Grassland - Upland hay meadows	Grassland	0.00	0.00	0.00	
Heathland and shrub - Mountain heaths and willow scrub	Heathland and shrub	0.00	0.00	0.00	
Lakes - Aquifer fed naturally fluctuating water bodies	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Calaminarian grasslands	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Limestone pavement	Sparsely vegetated land	0.00	0.00	0.00	
Wetland - Blanket bog	Wetland	0.00	0.00	0.00	
Wetland - Depressions on Peat substrates (H7150)	Wetland	0.00	0.00	0.00	
Wetland - Fens (upland and lowland)	Wetland	0.00	0.00	0.00	
Wetland - Lowland raised bog	Wetland	0.00	0.00	0.00	
Wetland - Oceanic Valley Mire[1] (D2.1)	Wetland	0.00	0.00	0.00	
Wetland - Purple moor grass and rush pastures	Wetland	0.00	0.00	0.00	
Wetland - Transition mires and quaking bogs (H7140)	Wetland	0.00	0.00	0.00	
Woodland and forest - Wood-pasture and parkland	Woodland and forest	0.00	0.00	0.00	
Rocky shore - High energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Low energy littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Rocky shore - Features of littoral rock - on peat, clay or chalk	Rocky shore	0.00	0.00	0.00	
Intertidal sediment - Littoral seagrass on peat, clay or chalk	Intertidal sediment	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00

Very High Distinctiveness Summary

Very High Distinctiveness Units available to offset lower distinctiveness defecit	0.00

High Distinctiveness

Habitat group	Group	On Site Unit Change	Off Site Unit Change	Project wide Unit Change	Losses not yet accounted for
Grassland - Traditional orchards	Grassland	0.00	0.00	0.00	
Grassland - Floodplain Wetland Mosaic (CFGM)	Grassland	0.00	0.00	0.00	
Grassland - Lowland calcareous grassland	Grassland	0.00	0.00	0.00	
Grassland - Tall herb communities (H6430)	Grassland	0.00	0.00	0.00	
Grassland - Upland calcareous grassland	Grassland	0.00	0.00	0.00	
Heathland and shrub - Lowland Heathland	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Sea buckthorn scrub (Annex 1)	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Upland Heathland	Heathland and shrub	0.00	0.00	0.00	
Lakes - High alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Low alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Marl Lakes	Lakes	0.00	0.00	0.00	
Lakes - Moderate alkalinity lakes	Lakes	0.00	0.00	0.00	
Lakes - Peat Lakes	Lakes	0.00	0.00	0.00	
Lakes - Ponds (Priority Habitat)	Lakes	0.00	0.00	0.00	
Lakes - Temporary lakes, ponds and pools	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Coastal sand dunes	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Coastal vegetated shingle	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Inland rock outcrop and scree habitats	Sparsely vegetated land	0.00	0.00	0.00	
Sparsely vegetated land - Maritime cliff and slopes	Sparsely vegetated land	0.00	0.00	0.00	
Urban - Open Mosaic Habitats on Previously Developed Land	Urban	0.00	0.00	0.00	
Wetland - Reedbeds	Wetland	0.00	0.00	0.00	
Woodland and forest - Felled	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Lowland beech and yew woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Native pine woodlands	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland birchwoods	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland mixed ashwoods	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Upland oakwood	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Wet woodland	Woodland and forest	0.00	0.00	0.00	
Coastal lagoons - Coastal lagoons	Coastal lagoons	0.00	0.00	0.00	
Rocky shore - High energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Moderate energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Low energy littoral rock	Rocky shore	0.00	0.00	0.00	
Rocky shore - Features of littoral rock	Rocky shore	0.00	0.00	0.00	
Intertidal sediment - Littoral mud	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00	
Coastal saltmarsh - Saltmarshes and saline reedbeds	Coastal Saltmarsh	0.00	0.00	0.00	
Intertidal sediment - Littoral biogenic reefs - Mussels	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Littoral biogenic reefs - Sabellaria	Intertidal sediment	0.00	0.00	0.00	
Intertidal sediment - Features of littoral sediment	Intertidal sediment	0.00	0.00	0.00	

High Distinctiveness Summary

High Distinctiveness Units available to offset lower distinctiveness defecit	0.00
Unit Defecit: Like for like not satisfied	✓ 0.00

Intertidal sediment - Littoral muddy sand	Intertidal sediment	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00

Medium Distinctiveness

Habitat Group	Group	On site unit change	Off Site unit Change	Project wide unit change	Cumulative Broad Habitat Change
Cropland - Arable field margins cultivated annually	Cropland	0.00	0.00	0.00	0.00
Cropland - Arable field margins game bird mix	Cropland	0.00	0.00	0.00	
Cropland - Arable field margins pollen & nectar	Cropland	0.00	0.00	0.00	
Cropland - Arable field margins tussocky	Cropland	0.00	0.00	0.00	
Grassland - Other lowland acid grassland	Grassland	0.00	0.00	0.00	2.28
Grassland - Other neutral grassland	Grassland	2.28	0.00	2.28	
Grassland - Upland acid grassland	Grassland	0.00	0.00	0.00	
Heathland and shrub - Blackthorn scrub	Heathland and shrub	0.00	0.00	0.00	1.37
Heathland and shrub - Bramble scrub	Heathland and shrub	-2.98	0.00	-2.98	
Heathland and shrub - Gorse scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Hawthorn scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Hazel scrub	Heathland and shrub	0.00	0.00	0.00	
Heathland and shrub - Mixed scrub	Heathland and shrub	4.34	0.00	4.34	
Lakes - Ponds (Non- Priority Habitat)	Lakes	0.00	0.00	0.00	0.00
Lakes - Reservoirs	Lakes	0.00	0.00	0.00	
Sparsely vegetated land - Other inland rock and scree	Sparsely vegetated land	0.00	0.00	0.00	0.00
Urban - Cemeteries and churchyards	Urban	0.00	0.00	0.00	2.60
Urban - Biodiverse green roof	Urban	0.00	0.00	0.00	
Urban - Urban Tree	Urban	2.60	0.00	2.60	
Woodland and forest - Other Scot's Pine woodland	Woodland and forest	0.00	0.00	0.00	0.00
Woodland and forest - Other woodland; broadleaved	Woodland and forest	0.00	0.00	0.00	
Woodland and forest - Other woodland; mixed	Woodland and forest	0.00	0.00	0.00	
Intertidal sediment - Littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00	0.00
Intertidal sediment - Littoral sand	Intertidal sediment	0.00	0.00	0.00	
Intertidal Hard Structures - Artificial hard structures with Integrated Greening of Grey Infrastructure (IGGI)	Intertidal	0.00	0.00	0.00	
		6.25	0.00	6.25	

Medium Distinctiveness Summary

Medium Distinctiveness Units available to offset lower distinctiveness defecit	6.25
Medium Distinctiveness Broad Habitat Deficit to be offset by trading up	0.00
Higher distinctiveness surplus units minus Medium Distinctivenss Broad Habitat Defecit	0.00
Cumulative surplus of units	6.25

Low Distinctiveness

Habitat group	Group	On site unit change	Off Site Unit Change	Project wide unit change
Cropland - Cereal crops	Cropland	0.00	0.00	0.00
Cropland - Horticulture	Cropland	0.00	0.00	0.00
Cropland - Intensive orchards	Cropland	0.00	0.00	0.00
Cropland - Non-cereal crops	Cropland	0.00	0.00	0.00
Cropland - Temporary grass and clover leys	Cropland	0.00	0.00	0.00
Cropland - Cereal crops winter stubble	Cropland	0.00	0.00	0.00
Grassland - Modified grassland	Grassland	-5.79	0.00	-5.79
Grassland - Bracken	Grassland	0.00	0.00	0.00
Heathland and shrub - Rhododendron scrub	Heathland and shrub	0.00	0.00	0.00
Lakes - Ornamental lake or pond	Lakes	0.00	0.00	0.00
Sparsely vegetated land - Ruderal/Ephemeral	Sparsely vegetated land	0.00	0.00	0.00
Urban - Bioswale	Sparsely vegetated land	0.00	0.00	0.00
Urban - Allotments	Urban	0.00	0.00	0.00
Urban - Facade-bound green wall	Urban	0.00	0.00	0.00
Urban - Ground based green wall	Urban	0.00	0.00	0.00
Urban - Ground level planters	Urban	0.00	0.00	0.00
Urban - Other green roof	Urban	0.00	0.00	0.00
Urban - Intensive green roof	Urban	0.00	0.00	0.00
Urban - Introduced shrub	Urban	0.12	0.00	0.12
Urban - Rain garden	Urban	0.00	0.00	0.00
Urban - Actively worked sand pit quarry or open cast mine	Urban	0.00	0.00	0.00
Urban - Sustainable urban drainage feature	Urban	0.00	0.00	0.00
Urban - Vacant/derelict land/ bareground	Urban	0.00	0.00	0.00
Urban - Vegetated garden	Urban	1.71	0.00	1.71
Woodland and forest - Other coniferous woodland	Woodland and forest	0.00	0.00	0.00
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	Coastal saltmarsh	0.00	0.00	0.00
Intertidal sediment - Artificial littoral coarse sediment	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral mud	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral sand	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral muddy sand	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral mixed sediments	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral seagrass	Intertidal sediment	0.00	0.00	0.00
Intertidal sediment - Artificial littoral biogenic reefs	Intertidal sediment	0.00	0.00	0.00
Intertidal Hard Structures - Artificial hard structures	Intertidal	0.00	0.00	0.00
Intertidal Hard Structures - Artificial features of hard structures	Intertidal	0.00	0.00	0.00
Heathland and shrub - Sea buckthorn scrub (other)	Heathland and shrub	0.00	0.00	0.00
		-3.96		-3.96

Low Distinctiveness Summary

Low Distinctiveness Net Change in Units	-3.96
Cumulative surplus of units	2.29

HABITAT CONDITION ASSESSMENT MATRIX FOR METRIC 3.1

PROJECT NAME: Blowers Wood
PROJECT NUMBER: 1006514

	Habitat type/criteria	Feature Reference							
Grassland (low distinctiveness)		**Main Fields**							
1	6-8 species per m2	Fail							
2	Varied sward height (>20% less than 7cm, >20% more than 7cm)	Pass							
3	Less than 20% scrub	Pass							
4	Less than 5% subject to physical damage (excessive poaching, machinery use/storage etc)	Pass							
5	Cover of bare ground between 1 and 10%	Fail							
6	Less than 20% bracken	Pass							
7	Absence of Sch9 invasive species	Fail							
Condition		**Poor**							
Grassland (medium distinctiveness and above)									
1	Closely matches characteristics of specific habitat type								
2	Varied sward height (>20% less than 7cm, >20% more than 7cm)								
3	Cover of bare ground between 1 and 5%								
4	Less than 20% bracken and 5% scrub								
5	Absence of Sch9 invasive species and less than 5% combined undesirable species (C Thistle, Sp Thistle, Docks, Nettle, C Buttercup, G Plantain, W Clover, Cow Parsley) or physical damage (excessive poaching, machinery use/storage etc)								
6	**Non-acid grasslands only:** Greater than 9 species per m2								
Condition									
Traditional orchard									
1	Presence of ancient and/or veteran trees								
2	Less than 5% of trees smothered by scrub, less than 10% scrub ground cover								
3	Evidence of formative and/or restorative pruning to maintain longevity of trees								
4	Presence of standing and/or fallen dead wood								
5	At least 95% of trees free from damage caused by humans or animals (e.g. browsing, bark stripping, rubbing)								
6	Sward height is varied (between 5-30cm) and small patches of bare ground present, up to 10% cover of tall herb vegetation								
7	Grassland species richness equivalent to medium, high or very high distinctiveness grassland (more than 9 species per m2)								
8	Absence of Sch9 invasive species and less than 10% undesirable species (C Thistle, Sp Thistle, Docks, Nettle)								
Condition									
Pond									
1	Good water quality with clear water and no obvious signs of pollution. Turbidity acceptable if grazed by livestock.								
2	Semi-natural habitat (moderate distinctiveness or above) at least 10m from pond edge.								
3	Less than 10% duckweed or filamentous algae								
4	Pond not artifically connected to other waterbodies								
5	Pond water levels able to fluctuate naturally throughout year - no obvious dams, pumps or pipework								
6	Absence of non-native plant and animal species								
7	Pond is not artifically stocked with fish. If naturally contains fish is a native fish assemablage at low densities.								
8	**Non-woodland ponds only:** Emergent, submerged or floating plants cover at least 50% of pond area that is less than 3m deep								
9	**Non-woodland ponds only:** Less than 50% shaded by woody bankside species								
Condition									
Scrub		**Mixed Scrub (S)**	**Bramble Scrub**						
1	Habitat is representative of UKHab description. At least 3 woody species, with no one species more than 75% cover (except Juniper, Sea Buckthorn and Box)	Fail							
2	Good age range with seedlings, young shrubs and mature shrubs present	Fail							
3	Absence of Sch9 invasive species and less than 5% undesirable species (C Thistle, Nettle, Cherry Laurel, Snowberry, Buddleia, Cotoneaster, Spanish Bluebell)	Fail							
4	Scrub has well developed edge with scattered scrub and tall grassland/herbs present between scrub and adjacent habitats	Pass							
5	Clearings, glades or rides present providing sheltered edges	Pass							
Condition		**Poor**							

Blowers Wood, Hempstead

A-1 Site Habitat Baseline

Condense / Show Columns | Condense / Show Rows

Main Menu | Instructions

	Habitats and areas			Distinctiveness		Condition		Strategic significance			Suggested action to address habitat losses	Ecological baseline	Retention category biodiversity value						Bespoke compensation agreed for unacceptable losses	Comments	
Ref	Broad Habitat	Habitat Type	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic Significance multiplier		Total habitat units	Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area habitat lost	Units lost		Assessor comments	Reviewer comments
1	Heathland and shrub	Bramble scrub	0.6475	Medium	4	Condition Assessment N/A	1	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	2.98	0	0	0.00	0.00	0.65	2.98		Sprawling bramble scrub which has arrisen thorugh lack of management	
2	Urban	Developed land; sealed surface	0.03	V.Low	0	N/A - Other	0	Formally identified in local strategy	High strategic significance	1.15	Compensation Not Required	0.00	0	0	0.00	0.00	0.03	0.00		Existing site entrance and narrow strip of pavement	
3	Heathland and shrub	Mixed scrub	0.1525	Medium	4	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same broad habitat or a higher distinctiveness habitat required (≥)	0.70		0.0575	0.00	0.26	0.10	0.44		Sparse mixed scrub between S side of site and Maidstone Rd., along broad ditch-line.	
4	Grassland	Modified grassland	2.8868	Low	2	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness or better habitat required ≥	6.64	0	0	0.00	0.00	2.89	6.64		Portion of modified grassland to be lost to development footprint	
5	Grassland	Modified grassland	0.2657	Low	2	Poor	1	Formally identified in local strategy	High strategic significance	1.15	Same distinctiveness or better habitat required ≥	0.61		0.2657	0.00	0.61	0.00	0.00		Retained grassland in the north to be enhanced to neutral grassland	
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					
25																					
26																					
27																					
28																					
29																					
30																					
31																					
32																					
33																					
34																					
35																					
36																					
37																					
38																					
39																					
40																					
41																					
42																					
43																					
44																					
45																					
46																					
47																					
48																					
49																					
50																					
51																					
52																					
53																					
54																					
55																					
56																					
57																					
58																					
59																					
60																					
61																					
62																					
63																					
64																					
65																					
66																					
67																					
68																					
69																					
70																					
71																					
72																					
73																					
74																					
75																					
76																					
77																					
78																					
79																					
80																					
81																					
82																					
83																					
84																					
85																					
86																					
87																					
88																					
89																					
90																					
91																					
92																					
93																					
94																					
95																					
96																					
97																					
98																					
99																					
100																					
101																					
102																					
103																					
104																					
105																					
106																					
107																					
108																					
109																					
110																					
111																					
112																					
113																					
114																					
115																					
116																					
117																					
118																					
119																					
120																					
121																					
122																					
123																					
124																					
125																					
126																					
127																					
128																					
129																					
130																					
131																					
132																					
133																					
134																					
135																					
136																					
137																					
138																					
139																					
140																					
141																					
142																					
143																					
144																					
145																					
146																					
147																					
148																					
149																					
150																					
151																					
152																					
153																					
154																					
155																					
156																					
157																					
158																					
159																					
160																					
161																					
162																					
163																					
164																					
165																					
166																					
167																					
168																					
169																					
170																					
171																					
172																					
173																					
174																					
175																					
176																					
177																					
178																					
179																					
180																					
181																					
182																					
183																					
184																					
185																					
186																					
187																					
188																					
189																					
190																					
191																					
192																					
193																					
194																					
195																					
196																					
197																					
198																					
199																					
200																					
201																					
202																					
203																					
204																					
205																					
206																					
207																					
208																					
209																					
210																					
211																					
212																					
213																					
214																					
215																					
216																					
217																					
218																					
219																					
220																					
221																					
222																					
223																					
224																					
225																					
226																					
227																					
228																					
229																					
230																					
231																					
232																					
233																					
234																					
235																					
236																					
237																					
238																					
239																					
240																					
241																					
242																					
243																					
244																					
245																					
246																					
247																					
248																					
		Total habitat area	3.98									10.93	0.00	0.32	0.00	0.88	3.66	10.06			

Total area lost (excluding area of Urban trees and Green walls)	3.66

Blowers Wood, Hempstead

A-2 Site Habitat Creation

Condense / Show Columns | Condense / Show Rows | Main Menu | Instructions

Post development/ post intervention habitats

Broad Habitat	Proposed habitat	Area (hectares)	Distinctiveness: Distinctiveness	Distinctiveness: Score	Condition: Condition	Condition: Score	Strategic significance: Strategic significance	Strategic significance: Strategic significance	Strategic significance: Strategic position multiplier	Temporal multiplier: Standard time to target condition/years	Temporal multiplier: Habitat created in advance/years	Temporal multiplier: Delay in starting habitat creation/years	Temporal multiplier: Standard or adjusted time to target condition	Temporal multiplier: Final time to target condition/years	Temporal multiplier: Final time to target multiplier	Difficulty multipliers: Standard difficulty of creation	Difficulty multipliers: Applied difficulty multiplier	Difficulty multipliers: Final difficulty of creation	Difficulty multipliers: Difficulty multiplier applied	Habitat units delivered	Comments: Assessor comments	Comments: Reviewer comments
Urban	Developed land; sealed surface	0.7275	V.Low	0	N/A - Other	0	Formally identified in local strategy	High strategic significance	1.15	0	0	0	Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Medium	0.67	0.00	Roads	
Urban	Developed land; sealed surface	1.23	V.Low	0	N/A - Other	0	Formally identified in local strategy	High strategic significance	1.15	0	0	0	Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Medium	0.67	0.00	Buildings	
Urban	Introduced shrub	0.0525	Low	2	Condition Assessment N/A	1	Formally identified in local strategy	High strategic significance	1.15	1	0	0	Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	0.12	Small areas in front gardens	
Heathland and shrub	Mixed scrub	0.0175	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	5	0	0	Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	0.13	Various areas throughout landscape design	
Grassland	Modified grassland	0.3225	Low	2	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	4	0	0	Standard time to target condition applied	4	0.867	Low	Standard difficulty applied	Low	1	1.29	Various areas of amenity grassland throughout landscape design. Managed short	
Grassland	Modified grassland	0.0443	Low	2	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	4	0	0	Standard time to target condition applied	4	0.867	Low	Standard difficulty applied	Low	1	0.18	Proposed areas of Wildflowre grassland and SuDS	
Heathland and shrub	Mixed scrub	0.2483	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	2.40	When the target habitats for a project are ;likely to take longer than 30 years, consider using realistic habitats that are likely to develop in the intervening period, or 'transitional habitats'. Scrub has been used as a transitional habitat in this case, where the target time for the proposed Broadleaved Woodland is >30 years, and Mixed scrub is likely to succeed in the intervenening period	
Grassland	Other neutral grassland	0.05	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	5	0	0	Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	0.38	Sustainable Urban Drainage Feature - Detailed Planting schedule sets out the use of Emorsgate EM8, Meadow Mixture for Wetlands (Or similar approved). Area to the be subject to wetland meadow, species rich wildflower management, as set out within the Biodiversity Net Gain Report. !2 wet grassland meadow species to be sown throughout the SUDs basin (Ref: 10745-FPCR-ZZ-XX-DR-L-0003-0008 R08 Detailed Planting)	
Urban	Vegetated garden	0.7725	Low	2	Condition Assessment N/A	1	Formally identified in local strategy	High strategic significance	1.15	1	0	0	Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	1.71	Private Gardens	
Urban	Urban Tree	0.3174	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	27	0	0	Standard time to target condition applied	27	0.382	Low	Standard difficulty applied	Low	1	1.12	78 medium sized, 'moderate' condition trees within areas of public open space	
Urban	Urban Tree	0.4234	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	27	0	0	Standard time to target condition applied	27	0.382	Low	Standard difficulty applied	Low	1	1.49	26 street trees to be plant, assumed 'moderate' condition. We are aware that the guidelines for the new Stat. metric place a lower weighting on trees, using a different formula for calculating area (0.0163 per trees as opposed to 0.0366) . This revised figure has been used on a precautionary basis	
Heathland and shrub	Mixed scrub	0.1942	Medium	4	Good	3	Formally identified in local strategy	High strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.700	Low	Standard difficulty applied	Low	1	1.88	When the target habitats for a project are ;likely to take longer than 30 years, consider using realistic habitats that are likely to develop in the intervening period, or 'transitional habitats'. Scrub has been used as a transitional habitat in this case, where the target time for the proposed Broadleaved Woodland is >30 years, and Mixed scrub is likely to succeed in the intervenening period	
	Total habitat area	4.40																	Total Units	10.69		

Sheena Wood, Revegland
A-2 Site Habitat Enhancement

Condamine / Brown Goldenrod

Condamine / Brown Stonecrop

Condamine / Brown Bossia

Instructions

Baseline habitat										Post-development post-intervention habitat																												Habitat unit delivered	Comments	
										Proposed Habitat (Pre-mandated but can be remediated)		Change in distinctiveness and condition		Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance			Standard time to target condition/years	Habitat enhanced in advance/years	Delay in starting habitat enhancement/years	Standard or adjusted time to target condition	Final time to target condition/years	Final time to target multiplier	Difficulty unit multiplier											
Baseline ref	Baseline habitat	Total habitat units (Area x...)	Baseline distinctiveness band	Baseline distinctiveness score	Baseline condition category	Baseline condition score	Baseline strategic significance category or multiplier	Baseline strategic significance score	Baseline habitat units	Suggested action to address habitat losses	Proposed habitat ref	Proposed habitat	Distinctiveness change	Condition change						Strategic significance	Strategic position multiplier								Standard difficulty of enhancement	Applied difficulty multiplier	Final difficulty of enhancement	Difficulty multiplier applied									
9	Shrubland and shrub - Mixed scrub	0.1026	Medium	4	Poor	1	High-strategic significance	1.15	0.53	Same distinctiveness or better habitat required	Shrubland and shrub	Mixed scrub	Medium - Medium	Poor - Good	0.0972	Medium	4	Good	5	Formally identified in local strategy	High-strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.333	Low	Standard difficulty applied	Low	1	0.321	Trees to be enhanced through removal of competing vegetation, pruning and respraying with additional weed to create good age range and improve ecological edge		
8	Grassland - Modified grassland	0.0402	Low	2	Poor	1	High-strategic significance	1.15	0.61	Same distinctiveness or better habitat required	Grassland	Other neutral grassland	Low - Medium	Lower Distinctiveness/Same/Higher Distinctiveness	0.0297	Medium	4	Moderate	3	Formally identified in local strategy	High-strategic significance	1.15	10	0	0	Standard time to target condition applied	10	0.333	Low	Standard difficulty applied	Low	1	0.297	Grassland enhanced within 0.5 hectare, some enhanced through scarification, over-seeding and then implementation of management prescriptions		
															4.03																						3.35		

B-2 Site Hedge Creation

Condense / Show Columns | Condense / Show Rows

Main Menu | Instructions

		Proposed habitats		Habitat distinctiveness		Habitat condition		Strategic significance			Temporal multiplier						Difficulty risk multipliers				Hedge units delivered	Comments	
Baseline ref	New hedge number	Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Standard Time to target condition/years	Habitat created in advance/years	Delay in starting habitat creation/years	Standard or adjusted time to target condition	Final time to target condition/years	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty multiplier applied		Assessor comments	Reviewer comments
1	H	Native Species Rich Hedgerow	1.135	Medium	4	Moderate	2	Formally identified in local strategy	High strategic significance	1.15	5	0	0	Standard time to target condition applied	5	0.837	Low	Standard difficulty applied	Low	1	8.74	Various species-rich hedges as per planting design	
2	SSH	Native Hedgerow	0.32	Low	2	Poor	1	Formally identified in local strategy	High strategic significance	1.15	1	0	0	Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	0.71	Various single species (beech) hedges	
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							
17																							
18																							
19																							
20																							
21																							
22																							
23																							
24																							
25																							
26																							
27																							
28																							
29																							
30																							
31																							
32																							
33																							
34																							
35																							
36																							
37																							
38																							
39																							
40																							
41																							
42																							
43																							
44																							
45																							
46																							
47																							
48																							
49																							
50																							
51																							
52																							
53																							
54																							
55																							
56																							
57																							
58																							
59																							
60																							
61																							
62																							
63																							
64																							
65																							
66																							
67																							
68																							
69																							
70																							
71																							
72																							
73																							
74																							
75																							
76																							
77																							
78																							
79																							
80																							
81																							
82																							
83																							
84																							
85																							
86																							
87																							
88																							
89																							
90																							
91																							
92																							
93																							
94																							
95																							
96																							
97																							
98																							
99																							
100																							
101																							
102																							
103																							
104																							
105																							
106																							
107																							
108																							
109																							
110																							
111																							
112																							
113																							
114																							
115																							
116																							
117																							
118																							
119																							
120																							
121																							
122																							
123																							
124																							
125																							
126																							
127																							
128																							
129																							
130																							
131																							
132																							
133																							
134																							
135																							
136																							
137																							
138																							
139																							
140																							
141																							
142																							
143																							
144																							
145																							
146																							
147																							
148																							
149																							
150																							
151																							
152																							
153																							
154																							
155																							
156																							
157																							
158																							
159																							
160																							
161																							
162																							
163																							
164																							
165																							
166																							
167																							
168																							
169																							
170																							
171																							
172																							
173																							
174																							
175																							
176																							
177																							
178																							
179																							
180																							
181																							
182																							
183																							
184																							
185																							
186																							
187																							
188																							
189																							
190																							
191																							
192																							
193																							
194																							
195																							
196																							
197																							
198																							
199																							
200																							
201																							
202																							
203																							
204																							
205																							
206																							
207																							
208																							
209																							
210																							
211																							
212																							
213																							
214																							
215																							
216																							
217																							
218																							
219																							
220																							
221																							
222																							
223																							
224																							
225																							
226																							
227																							
228																							
229																							
230																							
231																							
232																							
233																							
234																							
235																							
236																							
237																							
238																							
239																							
240																							
241																							
242																							
243																							
244																							
245																							
246																							
247																							
248																							
			1.46																		9.45		

Appendix 6514/4:

Landscape Planting Plans (FPCR Plan Ref: 10745-FPCR-ZZ-XX-DR-L-0003-0008 P08 Detailed Planting)

TPO G6/1971

TPO G9/1969

Blowers Wood

Sheet no. 10745-FPCR-ZZ-XX-DR-L-0005

Sheet no. 10745-FPCR-ZZ-XX-DR-L-0006

Sheet no. 10745-FPCR-ZZ-XX-DR-L-0007

Sheet no. 10745-FPCR-ZZ-XX-DR-L-0008

A278

MAIDSTONE ROAD

0 10 20 30 40 50m

N

- Site Boundary
- Existing Trees Retained and Protected (Subject to Arboricultural Assessment)
- Existing Hedgerows Retained and Protected (Subject to Arboricultural Assessment)
- Existing Trees to be Removed (Subject to Arboricultural Assessment)
- Existing TPO Trees (See Arboricultural Assessment for details)
- Existing stand of Giant Hogweed
- Proposed Public Open Space Tree Planting
- Proposed Street Tree Planting
- Woodland Buffer Planting Mix
- Native Hedgerow Species Mix
- Single Species Hedgerow
- Wet Meadow Grassland — Emorsgate EM6 - Meadow Mixture for Wetlands (Or similar approved)
- Wildflower Grassland — Emorsgate EM3 - Special General Purpose Meadow Mixture (or similar approved)
- Meadow Grassland — Emorsgate EM1 - Basic General Purpose Meadow Mixture (or similar approved)
- Tussock Grassland — Emorsgate EG10 - Tussock Grass Mixture (or similar approved)
- Amenity Shrub & Herbaceous Planting Mixes
- Turf — Rolawn Medallion Turf (or similar approved)
- Bulb Planting — Native bulb mix
- Chestnut Cleft Fence
- 15m offset from Ancient Woodland
- Seating to be agreed with LPA
- Self-Binding Gravel/Hoggin Paths
- Naturalistic Play Features (Details to be determined in consultation with local authority)
- Mounds (1 in 3 max height 1m) (Designed as informal play feature within public open space)
- Ornamental Planting Main Streets
- Ornamental Planting Side Streets
- Ornamental Planting Lanes and Edge Streets

See sheet 10745-FPCR-ZZ-XX-DR-L-0004 for POS schedule
See sheet 10745-FPCR-ZZ-XX-DR-L-0008 for on plot schedule

rev	date	description	drn	chk
P08	22/01/2024	Tree girth amended to suit ecology requirements.	TGE	ALP

masterplanning
environmental assessment
landscape design
urban design
ecology
architecture
arboriculture

FPCR Environment and Design Ltd
Lockington Hall
Lockington
Derby
DE74 2RH

t: 01509 672772
e: mail@fpcr.co.uk
w: www.fpcr.co.uk

client
Redrow Homes

project
Land at Blowers Wood,
Maidstone Road, Hempstead

drawing title
Detailed Planting Plan General Arrangement

scale	drn	chk	date created
1:500 @ A1	TGE	ALP	27 February 2023

project number	status	issue
10745	S3	P08

document number
10745-FPCR-ZZ-XX-DR-L-0003
Project Code - Originator - Zone - Level - Type - Role - Drawing Number

File: L:\10700\10745\LANDS\Drawings\10745-FPCR-ZZ-XX-DR-L-0003-0008 P08 Planting Plan.vwx

Public Open Space Planting Schedule

NATIVE WOODLAND BUFFER PLANTING

Qty	Latin Name	Common Name	Height	Form	Root Condition	Size	
404	Acer campestre	Field maple	80-100cm	Whip	BR		
404	Cornus sanguinea	Common dogwood	80-100cm	Whip	BR		
404	Corylus avellana	Hazel, Cobnut	80-100cm	Whip	BR		
404	Crataegus monogyna	Common hawthorn	80-100cm	Whip	BR		
201	Ilex aquifolium	Holly	80-100cm	Whip	C	3L	
404	Ligustrum vulgare	Common privet	80-100cm	Whip	BR		
99	Malus sylvestris	Crab Apple	80-100cm	Whip	BR		
404	Prunus spinosa	Blackthorn	80-100cm	Whip	BR		
99	Rhamnus cathartica	Common buckthorn	80-100cm	Whip	BR		
201	Rosa arvensis	Field rose	80-100cm	Whip	BR		
201	Rosa canina	Dog rose	80-100cm	Whip	BR		
404	Sorbus aucuparia	Rowan	80-100cm	Whip	BR		
404	Viburnum opulus	Guelder rose	80-100cm	Whip	BR		

AMENITY SHRUB AND HERBACEOUS PLANTING MIXES

Qty	Latin Name	Common Name	Height	Root Condition	Size
17	Alchemilla mollis	Ladys mantle	20-30cm	C	3L
17	Allium 'Purple Sensation'	Persian onion		Bulb	Grade 12/+
6	Carex buchananii	Bronze Sedge	30-40cm	C	3L
366	Cornus sanguinea 'Midwinter Fire'	Common dogwood	40-60cm	C	3L
91	Erica carnea Rosalie	Winter Heath	10-20cm	C	3L
81	Escallonia laevis	Pink Escallonia	40-60cm	C	3L
146	Euonymus fortunei 'Silver Queen'	Spindle Silver Queen	30-40cm	C	3L
17	Geranium 'Johnson's Blue'	Cranesbill 'Johnson's Blue'	30-40cm	C	3L
17	Hebe albicans 'Red Edge'	Hebe 'Red Edge'	30-40cm	C	3L
17	Hypericum x moseranum	Gold Flower	20-30cm	C	3L
26	Juniperus squamata 'Blue Carpet' 20-30cm	Blue juniper	10-20cm	C	3L
17	Lavandula angustifolia 'Hidcote'	Hidcote English Lavender	30-40cm	C	3L
81	Lonicera ligustrina var. yunnanensis 'Maigreen'	Honeysuckle	40-60cm	C	3L
49	Pachysandra terminalis 'Green Carpet'	Japanese Spurge 'Green Carpet'	10-20cm	C	3L
26	Pieris japonica 'Little Heath	Lily of the Valley Shrub	30-40cm	C	3L
26	Ruscus aculeatus	Butcher's broom	30-40cm	C	3L
17	Salvia nemorosa 'Amethyst'	Balkan clary	20-30cm	C	3L
17	Sesleria autumnalis	Moor Grass	30-40cm	C	3L
17	Stipa tenuissima 'Pony Tails'	Mexican Feather Grass 'Pony Tails'	30-40cm	C	3L
17	Verbena bonariensis	Argentinian vervain	30-40cm	C	2L
49	Vinca minor	Lesser periwinkle	20-30cm	C	2L

STREET TREES

Qty	Latin Name	Common Name	Height	Form	Root Condition	Minimum Clear Stem	Girth
10	Carpinus betulus 'Fastigata Frans Fontaine'	Hornbeam	450-500cm	Extra Heavy Standard	RB	200cm	18-20cm
10	Crataegus monogyna 'Stricta'	Hawthorn 'Stricta'	450-500cm	Extra Heavy Standard	RB	200cm	18-20cm

PUBLIC OPEN SPACE TREES

Qty	Latin Name	Common Name	Height	Form	Root Condition	Minimum Clear Stem	Girth
7	Acer campestre	Field maple	350-400cm	Heavy Standard	RB	200cm	12-14cm
4	Amelanchier lamarckii	Snowy Mespilus	250-300cm	Standard	RB	150cm	8-10cm
39	Betula pendula	Silver birch	350-400cm	Heavy Standard	RB	200cm	12-14cm
6	Betula pendula	Silver birch	250-300cm	Standard	RB	175cm	8-10cm
6	Betula pendula	Silver birch	450-500cm	Extra Heavy Standard	RB	200cm	18-20cm
11	Crataegus monogyna 'Stricta'	Hawthorn 'Stricta'	350-400cm	Heavy Standard	RB	200cm	12-14cm
15	Prunus avium	Gean, Wild cherry	350-400cm	Heavy Standard	RB	200cm	12-14cm
15	Prunus serrulata	Japanese cherry	250-300cm	Standard	RB	150cm	8-10cm
1	Pyrus communis 'Onward'	Common Pear Onward	250-300cm	Standard	RB	175cm	8-10cm

NATIVE HEDGEROWS (planted in a double staggered row, 5 plants lin/m)

Qty	Latin Name	Common Name	Height	Form	Root Condition
948	Acer campestre	Field maple	80-100cm	Whip	BR
561	Cornus sanguinea	Common dogwood	80-100cm	Whip	BR
754	Corylus avellana	Hazel, Cobnut	80-100cm	Whip	BR
1723	Crataegus monogyna	Common hawthorn	80-100cm	Whip	BR
367	Euonymus europaeus	Spindle	80-100cm	Whip	BR
561	Ilex aquifolium	Holly	80-100cm	Whip	C

SINGLE SPECIES HEDGEROWS (planted in a single row, 5 plants lin/m)

Qty	Latin Name	Common Name	Height	Form	Root Condition
781	Fagus sylvatica	Common beech	80-100cm	Whip	BR

BULB PLANTING

Qty	Latin Name	Common Name	Root Condition	Size
172	Allium ursinum	Wild garlic	C	1L
172	Narcissus pseudonarcissus	Daffodil	Bulb	Grade 5/6
172	Primula veris	Cowslip	C	1L

TPO G6/1971

TPO G9/1969

Blowers Wood

36 Narcissus pseudonarcissus
36 Allium ursinum
36 Primula veris

3 Betula pendula 12-14cm

226 Acer campestre
226 Cornus sanguinea
226 Corylus avellana
226 Crataegus monogyna
113 Ilex aquifolium
226 Ligustrum vulgare
56 Rhamnus cathartica
56 Malus sylvestris
113 Rosa arvensis
113 Rosa canina
226 Sorbus aucuparia
226 Viburnum opulus
226 Prunus spinosa

1 Acer campestre 12-14cm

1 Betula pendula 8-10cm
5 Prunus avium 12-14cm
5 Cornus sanguinea
5 Crataegus monogyna
5 Corylus avellana
5 Euonymus europaeus
5 Acer campestre
5 Ilex aquifolium

1 Prunus avium 12-14cm
50 Cornus sanguinea
200 Crataegus monogyna
75 Corylus avellana
25 Euonymus europaeus
100 Acer campestre
50 Ilex aquifolium

33 Narcissus pseudonarcissus
33 Allium ursinum
33 Primula veris

10 Lonicera ligustrina var. yunnanensis 'Maigreen'
8 Erica carnea Rosalie
10 Escallonia laevis
6 Pachysandra terminalis 'Green Carpet'
6 Vinca minor

1 Betula pendula 8-10cm

21 Cornus sanguinea
21 Crataegus monogyna
21 Corylus avellana
21 Euonymus europaeus
21 Acer campestre
21 Ilex aquifolium

5 Cornus sanguinea
5 Crataegus monogyna
5 Corylus avellana
5 Euonymus europaeus
5 Acer campestre
5 Ilex aquifolium

2 Prunus serrulata 8-10cm
2 Acer campestre 12-14cm
3 Prunus avium 12-14cm
82 Fagus sylvatica

103 Fagus sylvatica

2 Amelanchier lamarckii 8-10cm

2 Amelanchier lamarckii 8-10cm

179 Cornus sanguinea
714 Crataegus monogyna
268 Corylus avellana
89 Euonymus europaeus
357 Acer campestre
179 Ilex aquifolium

1 Crataegus monogyna 'Stricta' 12-14cm
1 Betula pendula 12-14cm
2 Crataegus monogyna 'Stricta' 12-14cm

10 Crataegus monogyna 'Stricta' 18-20cm
3 Prunus serrulata 8-10cm

18 Cornus sanguinea
18 Crataegus monogyna
18 Corylus avellana
18 Euonymus europaeus
18 Acer campestre
18 Ilex aquifolium

74 Cornus sanguinea
294 Crataegus monogyna
110 Corylus avellana
37 Euonymus europaeus
147 Acer campestre
74 Ilex aquifolium
3 Prunus avium 12-14cm

36 Lonicera ligustrina var. yunnanensis 'Maigreen'
29 Erica carnea Rosalie
36 Escallonia laevis
22 Pachysandra terminalis 'Green Carpet'
22 Vinca minor

4 Prunus serrulata 8-10cm
60 Fagus sylvatica
5 Prunus serrulata 8-10cm
99 Fagus sylvatica
55 Fagus sylvatica

20 Cornus sanguinea
20 Crataegus monogyna
20 Corylus avellana
20 Euonymus europaeus
20 Acer campestre
20 Ilex aquifolium

117 Acer campestre
117 Cornus sanguinea
117 Corylus avellana
117 Crataegus monogyna
58 Ilex aquifolium
117 Ligustrum vulgare
29 Rhamnus cathartica
29 Malus sylvestris
58 Rosa arvensis
58 Rosa canina
117 Sorbus aucuparia
117 Viburnum opulus
117 Prunus spinosa

25 Narcissus pseudonarcissus
25 Allium ursinum
25 Primula veris

29 Cornus sanguinea
29 Crataegus monogyna
29 Corylus avellana
29 Euonymus europaeus
29 Acer campestre
29 Ilex aquifolium

13 Narcissus pseudonarcissus
13 Allium ursinum
13 Primula veris

1 Acer campestre 12-14cm
2 Prunus avium 12-14cm
4 Betula pendula 12-14cm

3 Betula pendula 18-20cm
15 Narcissus pseudonarcissus
15 Allium ursinum
15 Primula veris

10 Cornus sanguinea
10 Crataegus monogyna
10 Corylus avellana
10 Euonymus europaeus
10 Acer campestre
10 Ilex aquifolium

3 Betula pendula 8-10cm
16 Cornus sanguinea
16 Crataegus monogyna
16 Corylus avellana
16 Euonymus europaeus
16 Acer campestre
16 Ilex aquifolium

1 Pyrus communis 'Onward' 8-10cm
4 Cornus sanguinea
4 Crataegus monogyna
4 Corylus avellana
4 Euonymus europaeus
4 Acer campestre
4 Ilex aquifolium

7 Carpinus betulus 'Fastigata Frans Fontaine' 18-20cm

17 Lonicera ligustrina var. yunnanensis 'Maigreen'
13 Erica carnea Rosalie
17 Escallonia laevis
10 Pachysandra terminalis 'Green Carpet'
10 Vinca minor

5 Betula pendula 12-14cm

26 Juniperus squamata 'Blue Carpet' 20-30cm
26 Ruscus aculeatus
26 Pieris japonica 'Little Heath
26 Erica carnea Rosalie

136 Fagus sylvatica

18 Lonicera ligustrina var. yunnanensis 'Maigreen'
15 Erica carnea Rosalie
18 Escallonia laevis
11 Pachysandra terminalis 'Green Carpet'
11 Vinca minor

3 Carpinus betulus 'Fastigata Frans Fontaine' 18-20cm

1 Pyrus communis 'Onward' 8-10cm

1 Acer campestre 12-14cm
1 Betula pendula 8-10cm
3 Betula pendula 12-14cm

126 Fagus sylvatica

1 Prunus avium 12-14cm

3 Betula pendula 18-20cm
6 Geranium 'Johnson's Blue'
6 Lavandula angustifolia 'Hidcote'
6 Alchemilla mollis
6 Hypericum x moserianum
6 Hebe albicans 'Red Edge'
6 Echinacea purpurea 'Rubinstern'
6 Sesleria autumnalis
6 Salvia nemorosa 'Amethyst'
6 Allium 'Purple Sensation'
2 Carex buchananii
6 Verbena bonariensis
6 Stipa tenuissima 'Pony Tails'

3 Crataegus monogyna 'Stricta' 12-14cm
119 Cornus sanguinea 'Midwinter Fire'
48 Euonymus fortunei 'Silver Queen'
32 Cornus sanguinea 'Midwinter Fire'
13 Euonymus fortunei 'Silver Queen'
19 Cornus sanguinea 'Midwinter Fire'
7 Euonymus fortunei 'Silver Queen'
9 Betula pendula 12-14cm
55 Cornus sanguinea 'Midwinter Fire'
22 Euonymus fortunei 'Silver Queen'
31 Cornus sanguinea 'Midwinter Fire'
12 Euonymus fortunei 'Silver Queen'
2 Betula pendula 12-14cm
37 Cornus sanguinea 'Midwinter Fire'
15 Euonymus fortunei 'Silver Queen'
35 Cornus sanguinea 'Midwinter Fire'
14 Euonymus fortunei 'Silver Queen'
38 Cornus sanguinea 'Midwinter Fire'
15 Euonymus fortunei 'Silver Queen'

18 Acer campestre
18 Cornus sanguinea
18 Corylus avellana
18 Crataegus monogyna
9 Ilex aquifolium
18 Ligustrum vulgare
4 Rhamnus cathartica
4 Malus sylvestris
9 Rosa arvensis
9 Rosa canina
18 Sorbus aucuparia
18 Viburnum opulus
18 Prunus spinosa

6 Betula pendula 12-14cm
1 Acer campestre 12-14cm

31 Narcissus pseudonarcissus
31 Allium ursinum
31 Primula veris

11 Geranium 'Johnson's Blue'
11 Lavandula angustifolia 'Hidcote'
11 Alchemilla mollis
11 Hypericum x moserianum
11 Hebe albicans 'Red Edge'
11 Echinacea purpurea 'Rubinstern'
11 Sesleria autumnalis
11 Salvia nemorosa 'Amethyst'
11 Allium 'Purple Sensation'
4 Carex buchananii
11 Verbena bonariensis
11 Stipa tenuissima 'Pony Tails'

19 Narcissus pseudonarcissus
19 Allium ursinum
19 Primula veris

16 Cornus sanguinea
16 Crataegus monogyna
16 Corylus avellana
16 Euonymus europaeus
16 Acer campestre
16 Ilex aquifolium

3 Betula pendula 12-14cm

30 Acer campestre
30 Cornus sanguinea
30 Corylus avellana
30 Crataegus monogyna
15 Ilex aquifolium
30 Ligustrum vulgare
7 Rhamnus cathartica
7 Malus sylvestris
15 Rosa arvensis
15 Rosa canina
30 Sorbus aucuparia
30 Viburnum opulus
30 Prunus spinosa

5 Crataegus monogyna 'Stricta' 12-14cm

1 Acer campestre 12-14cm

8 Acer campestre
8 Cornus sanguinea
8 Corylus avellana
8 Crataegus monogyna
4 Ilex aquifolium
8 Ligustrum vulgare
2 Rhamnus cathartica
2 Malus sylvestris
4 Rosa arvensis
4 Rosa canina
8 Sorbus aucuparia
8 Viburnum opulus
8 Prunus spinosa

57 Cornus sanguinea
229 Crataegus monogyna
86 Corylus avellana
29 Euonymus europaeus
115 Acer campestre
57 Ilex aquifolium

A278
Car Park
POST OFFICE ROAD
CSE
SH1

NOTES

This drawing is the property of FPCR Environment and Design Ltd and is issued on the condition it is not reproduced, retained or disclosed to any unauthorised person, either wholly or in part without written consent of FPCR Environment and Design Ltd.

Ordnance Survey Mastermap - Crown Copyright. All rights reserved. License Number: 100019980 (Centremapslive.com).

0 10 20 30 40 50m

N

- Site Boundary
- Existing Trees Retained and Protected (Subject to Arboricultural Assessment)
- Existing Hedgerows Retained and Protected (Subject to Arboricultural Assessment)
- Existing Trees to be Removed (Subject to Arboricultural Assessment)
- Existing TPO Trees (See Arboricultural Assessment for details)
- Existing stand of Giant Hogweed
- Proposed Public Open Space Tree Planting
- Proposed Street Tree Planting
- Woodland Buffer Planting Mix
- Native Hedgerow Species Mix
- Single Species Hedgerow
- Wet Meadow Grassland — Emorsgate EM8 - Meadow Mixture for Wetlands (Or similar approved)
- Wildflower Grassland — Emorsgate EM3 - Special General Purpose Meadow Mixture (or similar approved)
- Meadow Grassland — Emorsgate EM1 - Basic General Purpose Meadow Mixture (or similar approved)
- Tussock Grassland — Emorsgate EG10 - Tussock Grass Mixture (or similar approved)
- Amenity Shrub & Herbaceous Planting Mixes
- Turf — Rolawn Medallion Turf (or similar approved)
- Bulb Planting — Native bulb mix
- Chestnut Cleft Fence
- 15m offset from Ancient Woodland
- Seating to be agreed with LPA
- Self-Binding Gravel/Hoggin Paths
- Naturalistic Play Features (Details to be determined in consultation with local authority)
- Mounds (1 in 3 max height 1m) (Designed as informal play feature within public open space)

See sheets 10745-FPCR-ZZ-XX-DR-L-0005-0008 for on-plot planting.

rev	date	description	drn	chk
P08	22/01/2024	Tree girth amended to suit ecology requirements.	TGE	ALP

fpcr
masterplanning
environmental assessment
landscape design
urban design
ecology
architecture
arboriculture
FPCR Environment and Design Ltd
Lockington Hall
Lockington
Derby
DE74 2RH
t: 01509 672772
e: mail@fpcr.co.uk
w: www.fpcr.co.uk

client
Redrow Homes

project
Land at Blowers Wood,
Maidstone Road, Hempstead

drawing title
Detailed Planting Plan POS

scale	drn	chk	date created
1:500 @ A1	TGE	ALP	27 February 2023

project number	status	issue
10745	S3	P08

document number
10745-FPCR-ZZ-XX-DR-L-0004
Project Code — Originator — Zone — Level — Type — Role — Drawing Number

File: L:\10700\10745\LANDS\Drawings\10745-FPCR-ZZ-XX-DR-L-0003-0008 P08 Planting Plan.vwx

NOTES

This drawing is the property of FPCR Environment and Design Ltd and is issued on the condition it is not reproduced, retained or disclosed to any unauthorised person, either wholly or in part without written consent of FPCR Environment and Design Ltd.

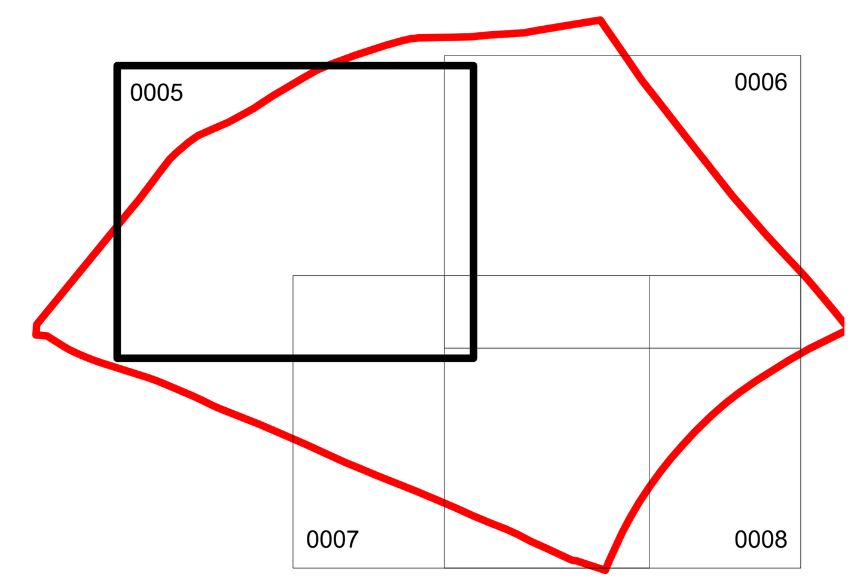
Ordnance Survey Mastermap - Crown Copyright. All rights reserved.
License Number: 100019980 (Centremapslive.com).

0 5 10 15 20m

N

- Site Boundary
- Ornamental Planting Main Streets
- Ornamental Planting Side Streets
- Ornamental Planting Lanes and Edge Streets
- Native Hedgerow Species Mix
- Single Species Hedgerow
- Turf
  Rolawn Medallion Turf (or similar approved)

See sheet 10745-FPCR-ZZ-XX-DR-L-0008 for on-plot planting schedule



rev	date	description	drn	chk
P08	22/01/2024	Tree girth amended to suit ecology requirements.	TGE	ALP

masterplanning
environmental assessment
landscape design
urban design
ecology
architecture
arboriculture

fpcr

FPCR Environment and Design Ltd
Lockington Hall
Lockington
Derby
DE74 2RH

t: 01509 672772
e: mail@fpcr.co.uk
w: www.fpcr.co.uk

client
Redrow Homes

project
Land at Blowers Wood,
Maidstone Road, Hempstead

drawing title
Detailed Planting Plan On Plot Sheet 1 of 4

scale	drn	chk	date created
1:500 @ A1	TGE	ALP	27 February 2023

project number	status	issue
10745	S3	P08

document number
10745-FPCR-ZZ-XX-DR-L-0005
Project Code - Originator - Zone - Level - Type - Role - Drawing Number

File: L:\10700\10745\LANDS\Drawings\10745-FPCR-ZZ-XX-DR-L-0003-0008 P08 Planting Plan.vwx

2 Asplenium scolopendrium
3 Luzula sylvatica aurea
2 Epimedium x perraldenianum 'Frohleiten'
2 Matteuccia struthiopteris
3 Liriope muscari
3 Brunnera macrophylla

12 Asplenium scolopendrium
16 Luzula sylvatica aurea
12 Epimedium x perraldenianum 'Frohleiten'
8 Matteuccia struthiopteris
16 Liriope muscari
16 Brunnera macrophylla

19 Cornus sanguinea
19 Crataegus monogyna
19 Corylus avellana
19 Euonymus europaeus
19 Acer campestre
19 Ilex aquifolium

21 Asplenium scolopendrium
28 Luzula sylvatica aurea
21 Epimedium x perraldenianum 'Frohleiten'
14 Matteuccia struthiopteris
28 Liriope muscari
28 Brunnera macrophylla

5 Asplenium scolopendrium
5 Epimedium x perraldenianum 'Frohleiten'
3 Matteuccia struthiopteris
6 Liriope muscari
6 Brunnera macrophylla

3 Liriope muscari
2 Sesleria autumnalis
3 Euphorbia characias 'Glacier blue
5 Verbena bonariensis

10 Liriope muscari
7 Sesleria autumnalis
10 Euphorbia characias 'Glacier blue
15 Verbena bonariensis

7 Asplenium scolopendrium
10 Luzula sylvatica aurea
7 Epimedium x perraldenianum 'Frohleiten'
5 Matteuccia struthiopteris
10 Liriope muscari
10 Brunnera macrophylla

5 Asplenium scolopendrium
5 Epimedium x perraldenianum 'Frohleiten'
3 Matteuccia struthiopteris
7 Liriope muscari
7 Brunnera macrophylla

6 Cornus sanguinea
6 Crataegus monogyna
6 Corylus avellana
6 Euonymus europaeus
6 Acer campestre
6 Ilex aquifolium

2 Asplenium scolopendrium
3 Luzula sylvatica aurea
2 Epimedium x perraldenianum 'Frohleiten'
2 Matteuccia struthiopteris
3 Liriope muscari
3 Brunnera macrophylla

3 Asplenium scolopendrium
4 Luzula sylvatica aurea
3 Epimedium x perraldenianum 'Frohleiten'
2 Matteuccia struthiopteris
4 Liriope muscari
4 Brunnera macrophylla

3 Asplenium scolopendrium
3 Epimedium x perraldenianum 'Frohleiten'
2 Matteuccia struthiopteris
4 Liriope muscari
4 Brunnera macrophylla

1 Asplenium scolopendrium
1 Epimedium x perraldenianum 'Frohleiten'
1 Matteuccia struthiopteris
1 Liriope muscari
1 Brunnera macrophylla

3 Asplenium scolopendrium
3 Epimedium x perraldenianum 'Frohleiten'
2 Matteuccia struthiopteris
4 Liriope muscari
4 Brunnera macrophylla

5 Asplenium scolopendrium
5 Epimedium x perraldenianum 'Frohleiten'
3 Matteuccia struthiopteris
6 Liriope muscari
6 Brunnera macrophylla

6 Asplenium scolopendrium
6 Epimedium x perraldenianum 'Frohleiten'
4 Matteuccia struthiopteris
8 Liriope muscari
8 Brunnera macrophylla

3 Asplenium scolopendrium
3 Epimedium x perraldenianum 'Frohleiten'
2 Matteuccia struthiopteris
5 Liriope muscari
5 Brunnera macrophylla

5 Asplenium scolopendrium
5 Epimedium x perraldenianum 'Frohleiten'
4 Matteuccia struthiopteris
7 Liriope muscari
7 Brunnera macrophylla

5 Asplenium scolopendrium
5 Epimedium x perraldenianum 'Frohleiten'
3 Matteuccia struthiopteris
7 Liriope muscari
7 Brunnera macrophylla

5 Asplenium scolopendrium
5 Epimedium x perraldenianum 'Frohleiten'
3 Matteuccia struthiopteris
7 Liriope muscari
7 Brunnera macrophylla

4 Asplenium scolopendrium
4 Epimedium x perraldenianum 'Frohleiten'
2 Matteuccia struthiopteris
5 Liriope muscari
5 Brunnera macrophylla

22 Fagus sylvatica

3 Brachyglottis 'Sunshine'
2 Lavandula angustifolia 'Hidcote'
3 Sisyrinchium striatum
5 Miscanthus sinensis 'Morning Light'

2 Hylotelephinum (Sedum) 'Herbstfreude'
1 Calamagrostis x acutiflora 'Karl Foerster
2 Sesleria autumnalis
2 Nepeta 'Six Hills Giant'
2 Echinops bannaticus 'Taplow blue'
2 Allium 'Purple Sensation'

5 Hylotelephinum (Sedum) 'Herbstfreude'
2 Calamagrostis x acutiflora 'Karl Foerster
5 Sesleria autumnalis
4 Nepeta 'Six Hills Giant'
4 Echinops bannaticus 'Taplow blue'
4 Allium 'Purple Sensation'

3 Anemanthele lessoniana
3 Hebe 'Autumn Glory'
5 Geranium macrorrhizum
3 Cistus x laxus 'Snow White'
5 Ajuga reptans 'Atropurpurea'
3 Verbena bonariensis
3 Centranthus ruber coccineus

18 Fagus sylvatica

26 Fagus sylvatica

26 Fagus sylvatica

1 Carex morrowii 'Ice Dance'
1 Brunnera macrophylla 'Jack Frost'
1 Anemone x hybrida 'Honorine Jobert'
1 Epimedium youngianum 'Niveum'
2 Euphorbia amygdaloides 'Purpurea'
1 Luzula nivea
1 Tellima grandiflora

2 Carex morrowii 'Ice Dance'
3 Brunnera macrophylla 'Jack Frost'
2 Anemone x hybrida 'Honorine Jobert'
2 Epimedium youngianum 'Niveum'
4 Euphorbia amygdaloides 'Purpurea'
2 Luzula nivea
3 Tellima grandiflora

19 Fagus sylvatica

2 Carex morrowii 'Ice Dance'
3 Brunnera macrophylla 'Jack Frost'
2 Anemone x hybrida 'Honorine Jobert'
4 Epimedium youngianum 'Niveum'
4 Euphorbia amygdaloides 'Purpurea'
2 Luzula nivea
3 Tellima grandiflora

2 Carex morrowii 'Ice Dance'
3 Brunnera macrophylla 'Jack Frost'
2 Anemone x hybrida 'Honorine Jobert'
2 Epimedium youngianum 'Niveum'
4 Euphorbia amygdaloides 'Purpurea'
2 Luzula nivea
3 Tellima grandiflora

23 Fagus sylvatica

2 Carex morrowii 'Ice Dance'
3 Brunnera macrophylla 'Jack Frost'
2 Anemone x hybrida 'Honorine Jobert'
2 Epimedium youngianum 'Niveum'
4 Euphorbia amygdaloides 'Purpurea'
2 Luzula nivea
3 Tellima grandiflora

3 Carex morrowii 'Ice Dance'
4 Brunnera macrophylla 'Jack Frost'
3 Anemone x hybrida 'Honorine Jobert'
3 Epimedium youngianum 'Niveum'
5 Euphorbia amygdaloides 'Purpurea'
3 Luzula nivea
4 Tellima grandiflora

21 Fagus sylvatica

2 Carex morrowii 'Ice Dance'
3 Brunnera macrophylla 'Jack Frost'
2 Anemone x hybrida 'Honorine Jobert'
2 Epimedium youngianum 'Niveum'
4 Euphorbia amygdaloides 'Purpurea'
2 Luzula nivea
3 Tellima grandiflora

16 Fagus sylvatica

2 Carex morrowii 'Ice Dance'
2 Brunnera macrophylla 'Jack Frost'
2 Anemone x hybrida 'Honorine Jobert'
2 Epimedium youngianum 'Niveum'
3 Euphorbia amygdaloides 'Purpurea'
2 Luzula nivea
2 Tellima grandiflora

3 Liriope muscari
2 Sesleria autumnalis
3 Euphorbia characias 'Glacier blue
5 Verbena bonariensis

A278

Apartments Type 1

Apartments Type 2

Oxford Street

Letchworth

Cambridge

Leamington LS

Oxford LS

Hampstead

Henley

Stratford

Buxton

Masonette

Garage Single

Garage Double

[BCP]

[OP]

[AS]

S-1A

S-2A

S-2B

S-3B

NOTES

This drawing is the property of FPCR Environment and Design Ltd and is issued on the condition it is not reproduced, retained or disclosed to any unauthorised person, either wholly or in part without written consent of FPCR Environment and Design Ltd.

Ordnance Survey Mastermap - Crown Copyright. All rights reserved. License Number: 100019980 (Centremapslive.com).

0 5 10 15 20m

N

Site Boundary

Ornamental Planting Main Streets

Ornamental Planting Side Streets

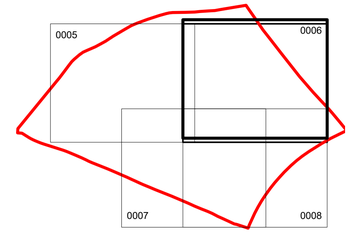
Ornamental Planting Lanes and Edge Streets

Native Hedgerow Species Mix

Single Species Hedgerow

Turf
Rolawn Medallion Turf (or similar approved)

See sheet 10745-FPCR-ZZ-XX-DR-L-0008 for on-plot planting schedule



rev	date	description	drn	chk
P08	22/01/2024	Tree girth amended to suit ecology requirements.	TGE	ALP

masterplanning
environmental assessment
landscape design
urban design
ecology
architecture
arboriculture

FPCR Environment and Design Ltd
Lockington Hall
Lockington
Derby
DE74 2RH

t: 01509 672772
e: mail@fpcr.co.uk
w: www.fpcr.co.uk

client
Redrow Homes

project
Land at Blowers Wood,
Maidstone Road, Hempstead

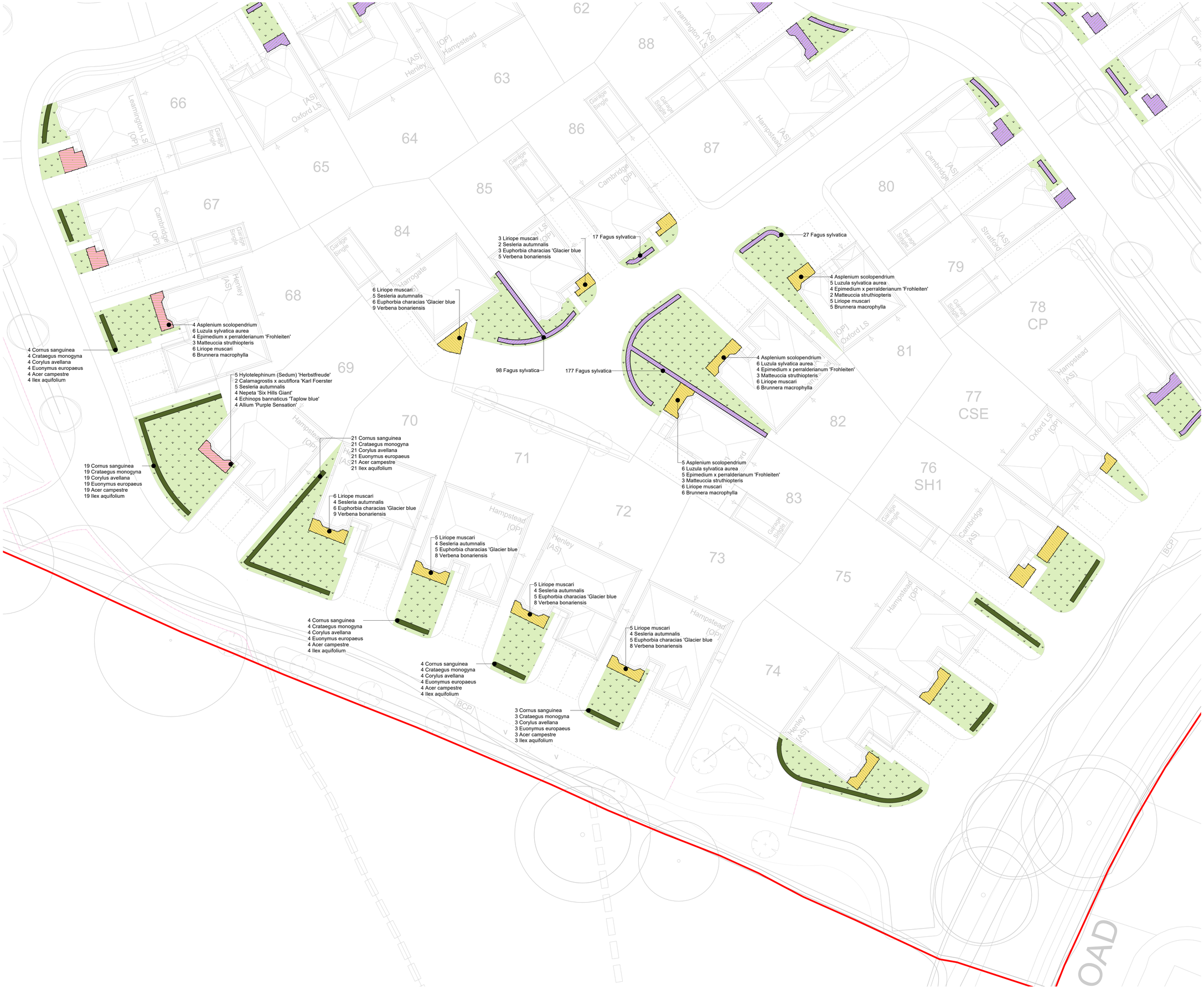
drawing title
Detailed Planting Plan On Plot Sheet 2 of 4

scale	drn	chk	date created
1:200 @ A1	TGE	ALP	27 February 2023

project number	status	issue
10745	S3	P08

document number
10745-FPCR-ZZ-XX-DR-L-0006
Project Code — Originator — Zone — Level — Type — Role — Drawing Number

File: L:\10700\10745\LANDS\Drawings\10745-FPCR-ZZ-XX-DR-L-0003-0008 P08 Planting Plan.vwx



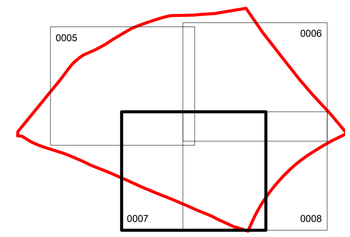
NOTES

0 5 10 15 20m

N

- Site Boundary
- Ornamental Planting Main Streets
- Ornamental Planting Side Streets
- Ornamental Planting Lanes and Edge Streets
- Native Hedgerow Species Mix
- Single Species Hedgerow
- Turf
  Rolawn Medallion Turf (or similar approved)

See sheet 10745-FPCR-ZZ-XX-DR-L-0008 for on-plot planting schedule



rev	date	description	drn	chk
P08	22/01/2024	Tree girth amended to suit ecology requirements.	TGE	ALP

masterplanning
environmental assessment
landscape design
urban design
ecology
architecture
arboriculture

FPCR Environment and Design Ltd
Lockington Hall
Lockington
Derby
DE74 2RH

t: 01509 672772
e: mail@fpcr.co.uk
w: www.fpcr.co.uk

client
Redrow Homes

project
Land at Blowers Wood,
Maidstone Road, Hempstead

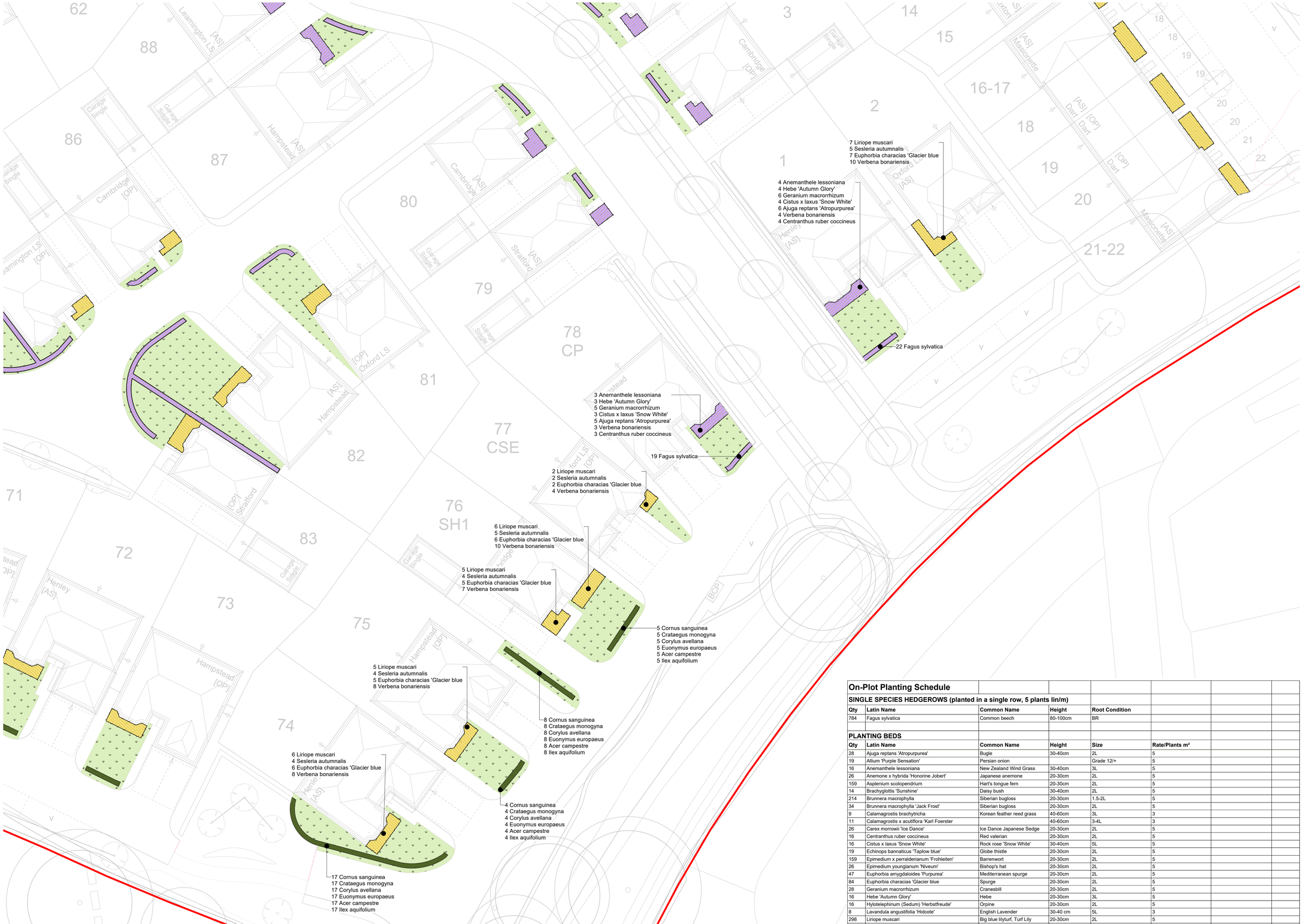
drawing title
Detailed Planting Plan On Plot Sheet 3 of 4

scale	drn	chk	date created
1:200 @ A1	TGE	ALP	27 February 2023

project number	status	issue
10745	S3	P08

document number
10745-FPCR-ZZ-XX-DR-L-0007
Project Code - Originator - Zone - Level - Type - Role - Drawing Number

File: L:\10700\10745\LANDS\Drawings\10745-FPCR-ZZ-XX-DR-L-0003-0008 P08 Planting Plan.vwx



NOTES

0 5 10 15 20m

N

- Site Boundary
- Ornamental Planting Main Streets
- Ornamental Planting Side Streets
- Ornamental Planting Lanes and Edge Streets
- Native Hedgerow Species Mix
- Single Species Hedgerow
- Turf
  Rolawn Medallion Turf (or similar approved)

On-Plot Planting Schedule

SINGLE SPECIES HEDGEROWS (planted in a single row, 5 plants lin/m)

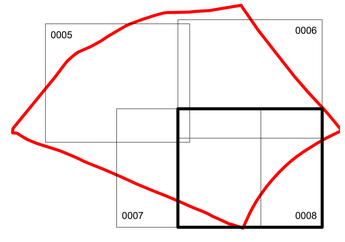
Qty	Latin Name	Common Name	Height	Root Condition
784	Fagus sylvatica	Common beech	80-100cm	BR

PLANTING BEDS

Qty	Latin Name	Common Name	Height	Size	Rate/Plants m²
28	Ajuga reptans 'Atropurpurea'	Bugle	30-40cm	2L	5
19	Allium 'Purple Sensation'	Persian onion		Grade 12/+	5
16	Anemanthele lessoniana	New Zealand Wind Grass	30-40cm	3L	5
26	Anemone x hybrida 'Honorine Jobert'	Japanese anemone	20-30cm	2L	5
159	Asplenium scolopendrium	Hart's tongue fern	20-30cm	2L	5
14	Brachyglottis 'Sunshine'	Daisy bush	30-40cm	2L	5
214	Brunnera macrophylla	Siberian bugloss	20-30cm	1.5-2L	5
34	Brunnera macrophylla 'Jack Frost'	Siberian bugloss	20-30cm	2L	5
9	Calamagrostis brachytricha	Korean feather reed grass	40-60cm	3L	3
11	Calamagrostis x acutiflora 'Karl Foerster		40-60cm	3-4L	3
26	Carex morrowii 'Ice Dance'	Ice Dance Japanese Sedge	20-30cm	2L	5
16	Centranthus ruber coccineus	Red valerian	20-30cm	2L	5
16	Cistus x laxus 'Snow White'	Rock rose 'Snow White'	30-40cm	5L	5
19	Echinops bannaticus 'Taplow blue'	Globe thistle	20-30cm	2L	5
159	Epimedium x perralderianum 'Frohleiten'	Barrenwort	20-30cm	2L	5
26	Epimedium youngianum 'Niveum'	Bishop's hat	20-30cm	2L	5
47	Euphorbia amygdaloides 'Purpurea'	Mediterranean spurge	20-30cm	2L	5
84	Euphorbia characias 'Glacier blue	Spurge	20-30cm	2L	5
28	Geranium macrorrhizum	Cranesbill	20-30cm	2L	5
16	Hebe 'Autumn Glory'	Hebe	20-30cm	3L	5
16	Hylotelephinum (Sedum) 'Herbstfreude'	Orpine	20-30cm	2L	5
8	Lavandula angustifolia 'Hidcote'	English Lavender	30-40 cm	5L	3
298	Liriope muscari	Big blue lilyturf, Turf Lily	20-30cm	2L	5
26	Luzula nivea	Snowy woodrush	20-30cm	2L	5
110	Luzula sylvatica aurea	Greater woodrush	20-30cm	2L	5
105	Matteuccia struthiopteris	Shuttlecock fern	30-40cm	2L	5
20	Miscanthus sinensis 'Morning Light'	Miscanthus sinensis 'Morning Li	40-60cm	3L	5
19	Nepeta 'Six Hills Giant'	Nepeta 'Six Hills Giant'	30-40cm	2L	5
90	Sesleria autumnalis	Autumn moor-grass	20-30cm	3L	5
14	Sisyrinchium striatum	Yellow Mexican satin flower	20-30cm	2-3L	5
34	Tellima grandiflora	Fringe cups	20-30cm	2L	5
157	Verbena bonariensis	Argentinian vervain	30-40cm	2L	5

NATIVE HEDGEROWS (planted in a single row, 5 plants lin/m)

Qty	Latin Name	Common Name	Height	Root Condition	Size
144	Acer campestre	Field maple	80-100cm	BR	
144	Cornus sanguinea	Common dogwood	80-100cm	BR	
144	Corylus avellana	Hazel, Cobnut	80-100cm	BR	
144	Crataegus monogyna	Common hawthorn	80-100cm	BR	
144	Euonymus europaeus	Spindle	80-100cm	BR	
144	Ilex aquifolium	Holly	80-100cm	C	3L



rev	date	description	drn	chk
P08	22/01/2024	Tree girth amended to suit ecology requirements.	TGE	ALP

masterplanning
environmental assessment
landscape design
urban design
ecology
architecture
arboriculture

FPCR Environment and Design Ltd
Lockington Hall
Lockington
Derby
DE74 2RH

t: 01509 672772
e: mail@fpcr.co.uk
w: www.fpcr.co.uk

client
Redrow Homes

project
Land at Blowers Wood,
Maidstone Road, Hempstead

drawing title
Detailed Planting Plan On Plot Sheet 4 of 4

scale	drn	chk	date created
1:200 @ A1	TGE	ALP	27 February 2023

project number	status	issue
10745	S3	P08

document number
10745-FPCR-ZZ-XX-DR-L-0008
Project Code - Originator - Zone - Level - Type - Role - Drawing Number

File: L:\10700\10745\LANDS\Drawings\10745-FPCR-ZZ-XX-DR-L-0003-0008 P08 Planting Plan.vwx

ecology • landscape planning • arboriculture

aspect

Aspect Ecology Ltd
West Court
Hardwick Business Park
Noral Way
Banbury
Oxfordshire OX16 2AF

T: 01295 279721
E: info@aspect-ecology.com
W: www.aspect-ecology.com