

ENVIRONMENT

Wordsworth Property Developments Limited
Long Lane, Earlsheaton
Dewsbury
Biodiversity Gain Plan

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Dewsbury
Biodiversity Gain Plan

Birmingham
Livery Place, 35 Livery Street, Colmore Business District, Birmingham, B3 2PB
T: 0121 233 3322

Leeds
Whitehall Waterfront, 2 Riverside Way, Leeds
LS1 4EH
T: 0113 233 8000

London
11 Borough High Street
London, SE1 9SE
T: 0207 407 3879

Manchester
11 Portland Street, Manchester, M1 3HU
0161 233 4260

Nottingham
Waterfront House, Station Street, Nottingham NG2 3DQ
T: 0115 924 1100

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P01	06/03/2025	S2	Martha Sefton BSc (Hons)	Sarah Stone MSc BSc (Hons) MCIEEM	Chris Grocock MSc BSc (Hons) ACIEEM
P02	18/03/2025	S2	Martha Sefton BSc (Hons)	Chris Grocock MSc BSc (Hons) ACIEEM	Sarah Stone MSc BSc (Hons) MCIEEM

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EXECUTIVE SUMMARY

This Biodiversity Gain Plan has been produced on behalf of Wordsworth Property Developments Limited in respect of the Site at Long Lane, Earlsheaton. It has been produced to demonstrate how the development will achieve 10% biodiversity net gain undertaken using the Statutory Biodiversity Metric.

The proposals include developed land, vegetated gardens, mixed scrub, modified grassland, other neutral grassland, and urban trees which are used as the basis to convert to post-development units.

Based on the current proposals, the proposed development will result in a -87.57% loss in habitat units, a -100% loss in hedgerow units, and no change in watercourse units. A total of 4.11 additional habitat units, 0.53 additional hedgerows units, and 0.10 additional watercourse units will therefore be required off-Site to achieve a 10% gain.

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1. INTRODUCTION

Instruction

- 1.1 This Biodiversity Gain Plan has been produced on behalf of Wordsworth Developments Limited in respect of the Site at Long Lane, Earlsheaton, Dewsbury. It has been produced to demonstrate how the development will achieve 10% biodiversity net gain undertaken using the Statutory Biodiversity Metric.

Site Description

- 1.2 The Site is located on Long Lane, Dewsbury, WF12 8LL. The Site itself comprised grassland, hedgerows, individual trees, mixed scrub and bramble scrub, with a watercourse close to the eastern boundary. The Site is approximately 0.6 hectares (ha) in extent and is centred on grid reference SE 25752 20426. The land is heavily sloped towards the south-eastern corner of the Site and situated approximately between 45 and 52 metres above ordnance datum (m AOD). The Site lies within the administrative area of Kirklees Council (KC).
- 1.3 The location of the Site is shown in **Figure 1.1**.



Figure 1.1: Site Location Plan

The Project

- 1.4 The Proposed Development is understood to involve a residential development comprising 26 dwellings with associated gardens, driveways, car parking facilities and access road.

Developer and Responsible Person(s) Details

- 1.5 The developer and responsible person(s) details are shown in **Table 1.1**.

Table 1.1: Developer and Responsible Person(s)

Developer	Responsible Person(s)
Jonathan Bailey Wordsworth Property Developments Limited Unit 1, Wordsworth Business Park, Whaley Road, Barugh Green, Barnsley, S75 1FJ jonathan@wordsworthproperties.co.uk 07896738014	Sarah Stone BWB Consulting Ltd Waterfront House, Station Street, Nottingham, NG2 3DQ Sarah.stone@bwbconsulting.com 07387 261300

Outputs

- 1.6 A Biodiversity Net Gain Statement has been produced by BWB Consulting Ltd, reference LLE-BWB-ZZ-XX-T-EE-0002_Biodiversity Net Gain Statement, March 2025.
- 1.7 The value of habitats is set out as baseline units, which are then assessed against the post-development habitats which are retained, enhanced or created. Pre and post development units are then compared to provide an overall change in biodiversity.
- 1.8 The three outputs of the Statutory Biodiversity Metric for terrestrial and aquatic habitats are:
- Area Habitat Biodiversity Units - Habitat area such as grassland, woodland or other areas of habitats which are measured in hectares (ha);
 - Hedgerow Biodiversity Units - Linear features such as hedgerows or lines of trees which are measured in kilometres (km); and,
 - Watercourse Biodiversity Units – Features containing water such as rivers, streams and ditches which are measured in kilometres.

2. METHODS

Baseline Units

- 2.1 The baseline UK Hab plan is included as **Appendix 1**.
- 2.2 The Site baseline provides a total of 4.22 habitat units, with a combination of low, medium and high distinctiveness habitats. The hedgerow was of low distinctiveness and provided 0.48 units. The watercourse provided 1.01 watercourse units and was high distinctiveness.

Proposed Development Landscaping

- 2.3 The Proposed Development landscaping plans by PWP Design 368 002 03 Outline Landscape & Masterplan Specification March 2025 are included as **Appendix 2**.
- 2.4 This includes proposed developed land, vegetated gardens, mixed scrub, modified grassland, other neutral grassland, and urban trees which are used as the basis to convert to post-development units.

Strategic Significance

- 2.5 The Statutory Biodiversity Metric takes into consideration Strategic Significance. Strategic Significance can be defined as the spatial location of a habitat in relation to preferred locations for biodiversity. This is broken down into three categories as described below:
- Within area formally identified in local strategy – the Site or habitat type is within the local planning documents or frameworks;
 - Location ecologically desirable but not in local strategy; and
 - Area/compensation not in local strategy/no local strategy.
- 2.6 The following data sources and resources were searched to gather information on the strategic significance of the Proposed Development landscaping:
- Multi-Agency Geographic Information for the Countryside (MAGIC);
 - Kirklees Adopted Local Plan Strategy; and
 - LLE-BWB-ZZ-XX-T-EE-0002_Biodiversity Net Gain Statement.

3. RESULTS

Irreplaceable Habitats

3.1 The Site does not contain irreplaceable habitats.

Mitigation Hierarchy

Avoidance

3.2 There will be no direct impacts to the watercourse (high distinctiveness) and a proportion of the riparian zone.

Proposed Development (On-Site) Units

3.3 The accompanying Statutory Biodiversity Metric for the Proposed Development (on-Site) landscaping comprises a total of 0.52 habitat units, 0.0 hedgerows units, and no change in watercourse units.

3.4 A summary of the percentage change on-Site is shown in **Table 3.1**.

Table 3.1: Percentage Change (On-Site)

Baseline (On-Site) Units	Proposed Development (On-Site) Units	Percentage Change (On-Site)
Habitat 4.22	Habitat 0.52	-87.57%
Hedgerows 0.48	Hedgerows 0.0	-100%
Watercourse 1.01	Watercourse 1.01	0.0%

Significant Enhancements (On-Site)

3.5 The habitat contributing the largest number of post-development units is the vegetated gardens, which provides 0.32 units. This is not considered significant in relation to the baseline.

Trading Rules

3.6 The trading rules have not been met as demonstrated in **Table 3.2**.

Table 3.2: Trading Rules Summary

Distinctiveness	Baseline (On-Site) Units	Proposed Development (On-Site) Units	Trading Rules Satisfied
High	0.14	0.0	No
Medium	3.88	0.17	No
Low	0.20	0.36	Yes

Biodiversity Units (Off-Site)

- 3.7 Units on-Site have been maximised by utilising native species where possible, providing trees, and creating an area of native scrub. The red line boundary has been reduced in order to preserve Chickenley Beck and the surrounding woodland as much as possible.
- 3.8 As a result of the post-development (on-Site) assessment and trading rules, a total of 4.11 additional habitat units, 0.53 additional hedgerows units, and 0.10 additional watercourse units are required off-Site.
- 3.9 These units will be secured through an off-Site provider during the planning process.

4. SUMMARY

- 4.1 A summary of how the Proposed Development will achieve 10% biodiversity net gain undertaken is shown in **Table 4.1**.

Table 4.1: Biodiversity Net Gain Summary

Baseline (On-Site) Units	Proposed Development (On-Site) Units	Post-Development (Off-Site) Units	Percentage Change
Habitat 4.22	Habitat 0.52	Habitat 4.11	+10%
Hedgerows 0.48	Hedgerows 0.00	Hedgerows 0.53	+10%
Watercourse 1.01	Watercourse 1.01	Watercourse 0.10	+10%

5. REFERENCES

- Baker, J. (2016). Biodiversity Net Gain: Good practice principles for development. CIEEM, IEMA, CIRIA, UK.
- Baker, J., Hoskin, R. & Butterworth, T. (2019). Biodiversity Net Gain: Good Practice Principles for Development, A Practical Guide. CIEEM, IEMA, CIRIA, UK.
- British Standards Institution (2013) BS42020:2013 Biodiversity – code of practice for planning and development. BSI Standards Ltd, London.
- DEFRA (2024) The Statutory Biodiversity Metric User Guide.
- DEFRA (2024) The Statutory Biodiversity Metric User Guide – Technical Anex 1: Condition Assessment Sheets and Methodology.
- Kirklees Council (2019). Kirklees Local Plan Strategy and Policies.
- LLE-BWB-ZZ-XX-T-EE-0002_Biodiversity Net Gain Statement
- Ministry of Housing, Communities and Local Government (2024) National Planning Policy Framework. ISBN: 978-1-4098-5302-2.
- Multi-Agency Geographic Information for the Countryside Website.
- Stace, C.S. (2019) New Flora of the British Isles, 4th edition. University Press, Cambridge
- UK Hab Ltd (2023) UK Habitat Classification Version 2.0.

APPENDICES

APPENDIX 1: UK Hab Habitat Plan



Notes			
1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.			
2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.			
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.			
4. Any discrepancies noted on site are to be reported to the engineer immediately.			

Key			
Red Line Boundary			
Native hedgerow			
Lowland mixed deciduous woodland			
Mixed scrub			
Modified grassland			
Bramble scrub			

Rev	Date	Details of issues/ revision	MS	SS
P03	10.02.2025	REVISED ISSUE	MS	SS
P02	06.02.2025	REVISED ISSUE	MS	/
P01	15.04.2024	PRELIMINARY ISSUE	SS	CL

Issues & Revisions

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CONSULTANCY | ENVIRONMENT
INFRASTRUCTURE | BUILDINGS

☐ Birmingham | 0121 233 3322

☐ Leeds | 0113 233 8000

☐ London | 0207 407 2879

☐ Manchester | 0161 233 4260

☒ Nottingham | 0115 924 1100

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Client

Wordsworth Property Developmentd Ltd

Project Title

Long Lane, Earlsheaton

Drawing Title

UK Hab Habitat Plan

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BWB Ref:	243830	Date:	10.02.2025
		Scale@A3:	1:500

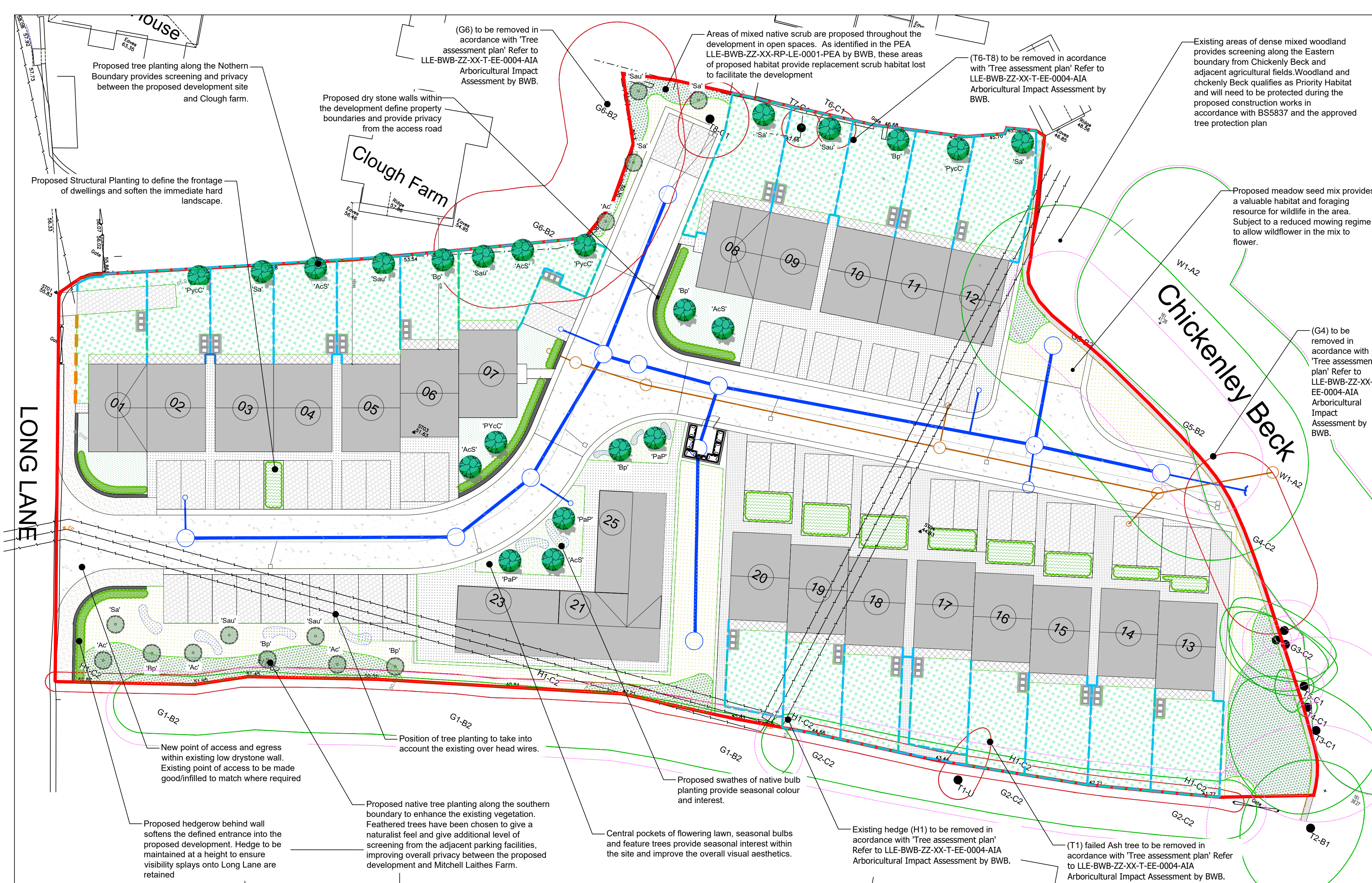
Drawing Status

Final



Project - Originator - Zone - Level - Type - Role - Number	Status	Rev
LLE-BWB-ZZ-XX-DR-LE-0002	S2	P03

APPENDIX 2: Proposed Landscaping



LANDSCAPE KEY

- SOFT LANDSCAPE
(Planting: refer to planting schedule & Specification for planting details)
Existing Trees and vegetation to be retained an associated RPA. All trees to be protected to BS5837:2012. Refer to 'Tree assessment plan' found in the Arboricultural Impact Assessment LLE-BWB-ZZ-XX-T-EE-0004-AIA by BWB for further details.
Existing trees and vegetation to be removed to facilitate development. Refer to 'Tree assessment plan' found in the Arboricultural Impact Assessment LLE-BWB-ZZ-XX-T-EE-0004-AIA by BWB for further details.
Proposed Standard Trees
Girth 8-10cm
Height 250-300cm
Proposed Feathered Trees
Girth 6-8cm
Height 250-300cm
Proposed single species native hedge
Total length 58m
Structural Ornamental Planting
Total area 88m²
Proposed native scrub mix
Total area 275m²
Proposed area of lawn for the front gardens. To be turfed for instant impact
Total area 177m²
Proposed area of lawn for rear gardens to be seeded
Total area 1205m²
Proposed flowering lawn seed
Total area 81m²
Proposed meadow seeding
Total area 530m²
Proposed bulb planting
Total area 21m²
HARD LANDSCAPE
Shown for reference only. Refer to Architects drawing - 0389-LON-103 by Eleven 52 Architects for details.
Proposed main access road
Proposed pedestrian path/access routes
Proposed car parking bays
Proposed rear garden patios
Proposed pedestrian path/access route to the front of residential dwellings
BOUNDARIES
Proposed boundary wall with fence detail: 1.2m natural stone wall with 800mm minimum fence fixed to the top for extra privacy
Proposed boundary wall: Proposed 1.2m natural stone wall to match & tie in with any existing
Rear garden plot boundaries: Timber fences to secure rear garden and define plot boundaries. Height 1.5m - 1.8m
Red line planning application boundary
UTILITIES
Shown for reference only. Refer to drainage layout 23590-DR-C101 by Dart Engineers for details.
Surface Water Drainage
Foul Water Services

SOFTWARES SPECIFICATION NOTES

the contractor is responsible to ensure that no products or practices are to be used that do not comply with relevant British Standards, Codes of Practice and Construction Regulations. Contractor to be fully satisfied with locations and off sets of services prior to excavations.

Site clearance generally: Where necessary remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil. Remove stones exceeding 75 mm. Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.

Relain and protect trees and vegetation in accordance with BS 5837 where necessary. Grub up any large roots and dispose of without undue disturbance of soil and adjacent areas with the order to comply with UK legislation in regard to the Wildlife and Countryside Act 1981 (as amended), any tree or vegetation removal and/or management must take place outside of the bird nesting season (March to September inclusive). Where this cannot be achieved, nesting bird checks must be undertaken by a suitably qualified ecologist within 24 hours of the works.

Works within the root protection area (RPA) There shall be no areas of storage, trafficking of machinery, cultivation, ripping or mechanical rothing, or importing of top soil, within the root protection area (RPA) of the existing trees to be retained. Where paths and hard surfacing is proposed within the retained tree RPA's, a No Dig methodology is to be adopted. Underground reinforcement, such as Cell Web (or similar approved) to be utilised in these locations. No trenches shall be dug within the RPA of the existing trees. New hedging plants within the RPA of the existing trees shall be notch planted. All of the above must be in accordance with BS 5837.

SOIL

Site preparation: Where required all existing topsoil and subsoil shall be stripped and stored separately on site. Heaps must not exceed 3m in height and should be used within 12 months in accordance with BS 4425 (Code of practice for general landscape operations).

Soil Sampling - Existing topsoil and inert sub soils, shall be analysed in accordance with BS 3882 to determine available nutrients, texture, organic matter content and pH. Where require, existing soils are to be improved in accordance with BS 3882:2015

Cultivation - Flail existing ruderal vegetation to ground level and remove arisings prior to cultivation. All areas to receive final layers of topsoil are to be de-compacted prior to spreading. Earth works vehicles to be small scale and tracked (loose-tipping) to minimise compaction, however chosen method for decompaction will be site specific dependant on size and soil conditions. Additional care must be taken as to not damage soil structures. All objects and stones over 75mm brought to the surface during decompaction are to be removed from the prepared surface layer. If existing subsoil horizon is found to consist of heavy clay, all proposed seeded areas to be time ripped to 200mm depth at 300mm centres to increase drainage. Areas to be seeded to be chain harrowed to a fine tilth and lightly rolled to provide firm seed bed. Remove all stones over 30mm dia in any direction. Imported soil material: Import as necessary to make up any deficiency of topsoil and/or subsoil existing on site to complete the work and mitigate deficiencies. All imported material must conform with industry standards BS 8601 (Subsoil), BS 3882 (Topsoil) and CLEA limits on heavy metals. Topsoil to be General purpose, 10mm screened and locally sourced (unless otherwise stated)

Soil build up: Existing topsoil and subsoil to be retained and reused on site within the landscape scheme where possible. Prior to spreading all topsoil to be screened to remove large stones and other deleterious materials, such as plant roots, leaves and clay. Topsoil to be loose-tipped and spread over de-compacted subsoil/receiving area. The total minimum rooting depth for planting, after settlement, should be: Grass 450mm; Planted areas 600mm; Trees 900mm. Topsoil depths for these areas should not normally exceed 300mm with the following minimum depths for each area: Grass 150mm; Planted areas 300mm; Trees 300mm. Meadow & wildflower seeding to be sown directly onto prepared subsoil.

Finished level of topsoil after settlement: Above adjoining paving or kerbs: 25 mm; Below dpc of adjoining buildings: Not less than 150 mm; Shrub areas: Higher than adjoining grass areas by 50 mm; Within root spread of existing trees: Unchanged; Adjoining soil areas: Many in; Thickness of turf or mulch: Included.)

ADDITIVES

Compost to tree/shrub pits: To be as per BS PAS 100: well rotted sterilised spent mushroom compost max. pH 6.7 or Target Treestart compost. The contractor shall provide a Certificate of Analysis to show that the material being supplied complies with the above criteria. Incorporate spent mushroom compost or equivalent approved peat free compost into tree and planting pits at a rate of 3 parts topsoil to 1 part compost, thoroughly mixed together.

Fertiliser to ornamental shrub beds - Apply slow release fertiliser, Scotts 'Enmag' 4.19:10 NPK or equivalent approved at a rate of 50 gms/sq. metre over topsoil surface and fork into top 225mm spit.

PLANTING

Generally: Minimise trafficking of graded slopes. All plants to be preferably planted between Nov. - March. Nursery stock trees and shrubs to be in accordance with BS 3838 and BS 8845, to be supplied and planted in accordance with British Standards and the Horticultural Association's Plant Handling Guide. Container grown shrubs to be thoroughly watered before planting; trees and bare root shrubs watered after planting.

Times of year for planting: Deciduous Trees, hedges and shrubs: Late October to late March. Evergreen hedges and shrubs: September/ October or April/ May. Container grown plants: At any time if ground and weather conditions are favourable. Watering and weed control to be provided as necessary.

Shrub/Hedge planting pits: Timing: Excavate 1-2 days (maximum) before planting. Pit sizes: Wide enough to accommodate rootstoilings when fully spread and 75 mm deeper than root system. Pit bottom improvement Break up to a depth of 150 mm, incorporating 25g of slow-release fertiliser per planting pit. Where existing planting and roots are present plants are to be notch planted to minimise disruption/roo damage. Backfilling material: Reuse excavated material. Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil. Firming: Lightly firm soil around plants and fork and/or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows.

Tree pit sizes: Standard trees excavate a tree pit 1.2m x 1.2m x 900mm. Break up sides and bottom of pits to a depth of 100mm to ensure free drainage. Tree pit treatment: Soil ameliorant worked into pit bottoms. Pit sides to be scarified and backfilling material to be in accordance with topsoil and subsoil specification. Drainage Layer: Provide 200mm layer washed, clean gravel to base of pits to aid drainage (tree pit to be actively drained if poor draining soil or clay discovered by contractor).

Tree Accessories: Typically trees in soft landscape to be staked unless stated otherwise by the Landscape Architect. Underground guying is recommended for semi mature trees or trees within hard landscape and in public areas. Trees to be staked using 1m long x 75mm dia. round timber stakes (size of stakes to be adjusted to suit size of tree). Cross member to be installed 75mm x 25mm (larger trees will need large cross members). Locate proprietary Hessian ties on cross member to secure tree and prevent rubbing. Short stakes (<1.0m high) with biodegradable Hessian ties are recommended to encourage wind tolerance and prevent rubbing. Tree pit accessories by Green Tech or similar: Underground guying and perforated plastic irrigation/ ventilation pipe to landscape architects approval.

Root Barriers: To be used wherever the installed rootball will be within 2m of a building foundation or within proximity to underground utilities (distance at which root barrier is required is as per utility providers standards and should be confirmed prior to installation). Root barrier by Green Tech or similar to be installed vertically in accordance with supplier recommendations.

Protective fencing/guards: Newly planted areas or individual plants are to include rabbit/deer proof fencing. Either perimeter mesh fencing or individual biodegradable plastic free spiral guards/shelters/tubes are to be installed around all planting where required. Where areas are fenced, mesh to be 1m min above ground and buried 300mm below ground.

Mulching: Approved medium course chipped tree bark composted for at least 4 weeks. Particle size 25-75mm dia, max. 20% fines, pests and disease free and free of Methyl Bromide contamination. Clear any weeds, ensure soil is thoroughly moistened prior to applying mulch. All planting areas inc. trees, hedges and planting beds should receive an even 75mm depth of bark mulch, adjoining edge of mulch to be 15mm min. below adjacent hardstanding to avoid spillage. 50mm depth of mulch is only suitable for higher quality ornamental bark (<5% fines, 5-35mm size etc.). All bark should be FSC certified. Option to use biodegradable mulch mats to control moisture, soil temperature, erosion and weeds. All trees within grass are to have a 1.5m diameter mulch circle.

Seeding and making good existing grass areas: Sleep embankments to be hydroseeded where required. After cultivating, grading and fertilizing prepare seed bed (Depth: 25 mm). Rake to a true, even surface. Remove surface stones/earth clods. Extend cultivation into existing adjacent amenity grassed areas sufficient to ensure full marrying in of levels where required. Evenly distribute seeds at an application rate of 35g/m² or as per supplier recommendations. Establish good seed contact with the root zone to promote healthy, consistent growth. Lightly harrow or rake to cover seed. Thoroughly water completed seeding until germination as necessary to keep the surface damp and soil moist but not water logged.

Cutting In: Where cutting planting beds into existing grassed areas, the surrounding grass shall be protected and made good as necessary. These areas are to be made good by preparing and re-seeding area. Seed mixes: John Chambers Lawn/Meadow seed or similar approved.

Turf Preparation - Lay turf with minimum possible delay after lifting. If delay occurs, lay turf out on topsoil and keep moist. Do not lift turf in frosty weather or if ground waterlogged. Arrange phased delivery timescales to avoid need for excessive stacking. Stacking height 1m (max). Do not use dried out or deteriorated turf. After cultivating, grading and fertilizing prepare seed bed to fine, firm tilth with good crumb structure (Depth: 25 mm). Rake to a true, even surface, friable and lightly firmed but not over compacted. Remove surface stones/earth clods. Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.

Turf Implementation - Turf to be laid in Spring and summer within 18 hours of delivery; and Autumn and winter within 24 hours of delivery. Do not lay turf when persistent cold or drying winds are likely to occur or soil is frost bound, waterlogged or excessively dry. Planks to be laid on previously laid turf. Do not walk on prepared bed or newly laid turf. Turf laid along contours with staggered, close butted joints. Do not stretch turf. At the edges, whole turfs to overlap line, trimmed to a true line. Remove high spots and fill hollows with fine soil to adjust levels. Lightly and evenly firm as laying proceeds to ensure full contact with substrate. Do not use rollers. Dress turf with Sharp sand at a rate of 2kg/m² and brushed in to completely fill joints. Thoroughly water completed turf immediately after laying. Check that water has penetrated into the soil below. Use hardy low maintenance amenity turf suitable for use in shade (To BS 3969).

Seed Preparation and Implementation for Wildflower Areas: No addition of nutrient to soil required. Method to suit soil type, proposed usage, location and weather conditions during and after sowing. A friable firm seed bed required, weed free, alleviation of compaction to a depth of 100-200mm, sowed on a firm and fine tilth. Seed bed preparation to be conducted in dry conditions, close to the time of sowing. Remove surface stones/earth clods. Marry in with adjacent levels where required. Evenly distribute seeds at the manufacturers recommended application rate. Establish good seed contact with the root zone to promote healthy, consistent growth. Lightly harrow or rake to cover seed. Thoroughly water completed seeding.

MAINTENANCE

1 year Defects Liability Period applies. All dead or failing plants to be replaced the following growing season. Maintain a weedfree bare earth area 600mm dia minimum around individual trees and shrubs. Herbicide shall only be used where necessary and if use is required it should be a non-residual translocated herbicide and spot applied/applied with spray guard. Application and use to be in accordance with EA guidance. Prior to spraying ensure all spirals are tight to ground level and leaves within spray range are fully enclosed. Arisings: Remove. Trim all edges. Weed control: Substantially free of broad leaved weeds. Method: Application of a suitable selective herbicide. Remove any stones 25 mm in any dimension brought to the surface. Watering: To ensure establishment.

PLANTING SCHEDULES

Trees:

STANDARD TREES					
Total No. 22					
Total	Species	Height mm	Girth	Size	Spec.
5	Acer campestre 'Streetwise' (AcS)	250-300	8-10cm	S	B, clear stem 175-200mm
5	Betula pendula (Bp)	250-300	8-10cm	S	B, clear stem 175-200mm
3	Prunus avium 'Plena' (PaP)	250-300	8-10cm	S	B, clear stem 175-200mm
3	Pyrus calleryana 'Chanticleer' (PycC)	250-300	8-10cm	S	B, clear stem 175-200mm
3	Sorbus aria (Sa)	250-300	8-10cm	S	B, clear stem 175-200mm
3	Sorbus aucuparia (Sau)	250-300	8-10cm	S	B, clear stem 175-200mm
FEATHERED TREES					
Total No. 13					
Total	Species	Height mm	Girth	Size	Spec.
4	Acer campestre (Ac)	250-300	6-8cm	F	Feathered
3	Betula pendula (Bp)	250-300	6-8cm	F	Feathered
3	Sorbus aria (Sa)	250-300	6-8cm	F	Feathered
3	Sorbus aucuparia (Sau)	250-300	6-8cm	F	Feathered

Native Single Species Hedge:

HEDGE				
Name	Age	Size	Spec	Notes
Fagus sylvatica	1+1	60-80cm	BR	Hedge to be planted as a double staggered row 450mm apart (5/lin m)

Planted as per specification in a staggered double row. Biodegradable plastic free tree tubes and spiral guards to be provided to each plant, where required. Where planting is in close proximity to service infrastructure/drainage, approved offset distances to be confirmed

Ornamental Shrub & Herbaceous Planting Mix:

(Species to be selected from the following schedule. Plant in naturalistic style, typically in groups of 3, 5, 7 & 9. Species are to be selected from the schedule below. This schedule provides an indicative but not exhaustive list

SHRUBS & HERBACEAOUS					
Name	Pot Size	Size in cm	Spec.	Density p/m²	
Choisya ternata 'Sun Dance'	3L	30-40	C	5/m²	
Cornus alba	3L	60-80	C	5/m²	
Euonymus fortunei 'Silver Queen'	3L	30-40	C	4/m²	
Hebe pinguifolia 'Sutherlandii'	3L	30-40	C	4/m²	
Lavandula hidcote	3L	30-40	C	5/m²	
Lonicera 'May Green'	3L	30-40	C	4/m²	
Sarcococca confusa	3L	20-30	C	5/m²	
Spirea japonica 'Gold Flame'	3L	40-60	C	3/m²	
Viburnum opulus	3L	30-40	C	5/m²	

Native Scrub Mix:

NATIVE SCRUB MIX				
% of Mix	Species	Spec	Size in cm	Age
10	Cornus sanguinea	BR	40-60cm	1+1
10	Corylus avellana	BR	40-60cm	1+0
35	Crataegus Monogyana	BR	40-60cm	1+1
5	Ligustrum Vulgare	BR	60-80cm	1u1
15	Prunus spinosa	BR	60-80cm	1u1
5	Rosa canina	BR	40-60cm	1+0
10	Ulex europaeus	Cell	25-30cm	1+1
10	Viburnum opulus	BR	40-60cm	2+0

To be planted as per specification in staggered rows, at 0.5m² centres. Planted in groups of 3, 5, 7 to ensure an even distribution of species throughout the specified area. Taller species to be planted in the centre or rear along the boundary, with smaller species to the edges or front. Biodegradable plastic free tubes and cane supports to be provided to each plant, where required. All areas of new native planting to be undersown with a woodland/shade tolerant seed mix

Seed Mixes:

MEADOW MIX	
Habitat Aid Basic Native Wildflower Meadow Seed Mix. 80% Grass Seed 20% Wildflower	
Sowing rate @ 4g/m²	
Common Bent, Smaller Cat's-tail, Creeping Red Fescue, Crested dogstail, Smooth-stalked meadow grass Yarrow, Common Knapweed, Wild carrot, Hedge Bedstraw, Ladies Bedstraw, Oxeye Daisy, Birdsfoot Trefoil, Ribwort Plantain, Selfheal, Meadow Buttercup, Common Sorrel, Red Campion	

AMENITY FLOWERING LAWN	
Habitat Aid Flowering Lawn Mix. 20% native British wildflowers and 80% mixed slow-growing grasses	
Sowing rate @ 5g/m²	
Yarrow, Daisy, Ladies Bedstraw, Cats-ear, Smooth Hawkbit, Rough Hawkbit, Birdsfoot Trefoil, Ribwort Plantain, Cowslip, Selfheal, Bulbous Buttercup, Dandelion, Common Bent, Highland Bent, Chewings Fescue, Native Fescues, Crested dogstail	

To be sown as per suppliers recommendations. Subject to a reduced mowing regime. To incorporate mown margin/edge where required Areas of retained grassland to be made good where required utilising the suggested seed mixes.

Lawn/Turf:

LAWN SEED MIX	
John Chambers Prize Lawn Grass Seed	
Sowing rate @ 35g/m²	
Amenity PRG, Chewings Fescue, Slender Red Fescue, Dawrf Turf Perennial, Browntop Bent	

TURF	
Premier lawn turf roll	
Hard wearing turf to include rye grass	
To be laid where require instant coverage/areas to be made good following construction. (Supplier as approved by landscape architect)	

Bulbs:

NATIVE BULBS MIX		
Species	Grade	Density
Anemone nemorosa	12/30	50/m²
Galanthus nivalis (g)	4/5	100/m²
Hyacinthoides non-scripta	6/7	200/m²
Narcissus pseudonarcissus	10/15	35/m²

UK cultivated stock to be used for native bulbs



PWP Design Ltd
Unit 1, Whiteley Court
Pool Road
Otley
LS21 1FR

PWP
DESIGN

0113 4572508
info@pwpdesign.co.uk

Project: Long Lane, Earlsheaton		Client: Wordsworth Properties							
Title: Outline Landscape Masterplan & Specification		Drawn: BP		Chk'd: LW		App'd LW			
Drawing Number: PWP 368 002		Revision: 01		Drawing Scale: 1:250 @ A1					
01	10.05.24	For Planning				BP	LW	LW	
00	03.05.24	Draft For Comment				BP	LW	LW	
Rev	Date	Detail				Made	Chk'd	App'd	

STATUS: FOR PLANNING PURPOSES

Notes:

- Not for construction all dimensions to be confirmed on site
- Based on Layout Drawing - 0389-LON-103 by Eleven 52 Architects
- Refer to architects/engineers drawing for hard landscape, boundary treatments, site levels, drainage, retaining walls.
- Build ups/footings to engineers specification.
- Contractor to be fully satisfied with locations of services prior to excavations.
- All existing trees to be protected to BS 5837.

