

Ascerta

Landscape, Arboricultural & Ecological Solutions
for the Built Environment

Landscape and Ecological Management Plan

Rossett Road,
Wrexham

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P.1416.20

Landscape and Ecological Management Plan

of

Rossett Road, Wrexham

for

Castle Green Homes

14th September 2021

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QA Review & Approval	Ciaran Power - Office Manager

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1 Introduction

Ascerta has been instructed by Castle Green Homes to carry out a landscape and ecological management plan for land at Rossett Road, Wrexham (hereafter referred to as the site). Our client seeks planning consent to develop the site for the erection of 132 residential units with associated access roads and public open space.

The detailed soft landscaping scheme is shown on the following drawing: P.1416.20.02 Planting Plan (5 sheets) Revision J.

This management plan covers a period of 25 years and it should be reviewed at the end of this period based on the condition of the site at that time to ensure the initial objectives are being achieved. The recommendations from the preliminary ecological report is included within the management prescriptions.

2 Site Description

2.1 The Existing Site

The site is made up of two parcels to the north and south of Rossett Road within Wrexham County. The site is located on the eastern urban fringe of the village called Rossett, and comprises agricultural fields largely bound by hedgerows and trees.

The northern parcel measures 2.9 ha comprising a field of improved grassland with a mature tree in the middle and bound by a mature tree group and trees long the north-eastern boundary and eastern boundary. The northern parcel is surrounded by a large playing field to the north-east, and neighbouring agricultural field to the east. Rossett Road runs parallel with the southern boundary, whilst residential properties along Trevalyn Hall View and Darland View back onto the western boundary of the northern parcel.

The southern parcel measures 3.4 ha and is part of a large-scale field containing arable crops bound by hedgerows and a few trees. Rossett Road runs parallel with the northern boundary of the southern parcel, whilst the hedgerow of a neighbouring isolated property and remaining part of the field are located to the east. The eastern boundary of the southern parcel is largely boundless. Harwood Lane runs parallel with the southern boundary, whilst residential properties along Trevalyn Way and Moss Green back onto the western boundary of the southern parcel.

The overall site is mainly bound by hedgerows (comprising hawthorn, laurel, holly, and elder), tree groups (comprising hawthorn, hazel, ash, elder, sycamore, oak, cherry, and Norway maple), and trees (comprising oak, ash, alder, and sycamore).

A public footpath runs near the eastern boundary of the northern parcel and parallel with the eastern boundary of the southern parcel as indicated by Figure 1.



Figure 1 Satellite image showing the proposed development site (in red dashed lines) and nearby footpaths (in dashed green lines)

2.2 Site Ecology

The following reports were completed following a series of site surveys and the recommendations made for ecological mitigation and arboricultural enhancements have been included in both the design and management proposals.

- *P.1416.20 Ascerta Arboricultural Impact Assessment, Rossett Road (by Ascerta)*
- *Rossett Rd, Rossett, Preliminary Ecological Appraisal & Badger Survey, June 2021_Rev1 (by Cheshire Ecological Services)*
- *Rossett Rd, Rossett, Biodiversity Action Plan, June 2021 (by Cheshire Ecological Services)*

The key habitats currently identified on site are listed below.

- Agricultural field,
- Improved Grassland,
- Intact species-poor hedge with trees,
- Intact species-poor hedge, and
- Scattered trees

The habitat composition of the site was considered to have potential to support legally protected wildlife species, including nesting birds, badger, brown hare, hedgehog, and polecat.

2.3 The Proposed Site Description

The residential development proposes the construction of 132 residential units with rear gardens, front gardens, and driveways. The development includes inner roads, tree planting, ornamental shrub and herbaceous planting beds, formal hedges, and perimeter open space with eco species rich lawn mix, native hedgerows and native shrub mix planting. Two small public open spaces, each with infiltration basins are located in the northern corner and centre of the northern parcel. While a large public open space is located in the southern part of the southern parcel.

Two new access roads will be created off Rossett Road that will require sections of existing native hedgerows to be removed (H1 (in part) and H6 (in part)) and will be compensated for along the roadside and around the perimeter of the whole site. The proposal will also require the removal of trees (T3, T4, T5 and G1 (in part)) and removal of small sections of hedgerow (H1 (in part), and H4 (in part)) within the site to accommodate the development proposal (See *P.1416.20B Ascerta Arboricultural Impact Assessment, Rossett Road*).

Replacement trees and shrub planting including species will reference the RHS *Perfect for Pollinators* plant lists. The landscaping design is shown on P.1416.20.02 Planting Plan (5 sheets) Revision J which provides:

- Proposed ornamental shrub and herbaceous planting (Total area: 466 m²)
- Proposed tree planting (Total: 118 .no trees)
- Proposed mixed native hedgerow (Total length: 214 lin.m)
- Proposed hawthorn hedgerow (Total length: 99 lin.m)
- Proposed formal hedge (Total length: 1134 lin.m)
- Front and side gardens turfed (Total area: 5104 m²)
- Wildflower seeding Germinal AberSustain mix (Total: 6846m²)
- Wildflower seeding Germinal WFG20 Eco Species Rich Lawn mix (Total: 2727m²)
- Wildflower seeding, Germinal WF19 Pollinators Paradise (Total: 350m²)
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow - MG8 Grassland (Total: 929m²)
- Native shrub mix planting as whip planting, for additional wildlife habitat (Total: 554m²)

The proposed formal hedges will include single ornamental species of Cherry Laurel 'Otto Luyken'.

The proposed single native hedge will be hawthorn and the native hedgerow mix includes Hazel, Hawthorn, Holly, Blackthorn and Guelder Rose to provide a food or shelter resource to wildlife and to be in keeping with the ecology report recommendation of proposing hedgerows with at least 5 different native species.

The proposed native shrub mix planting will include Field Maple, Hazel, Hawthorn, Holly, Blackthorn, and Dog Rose. These species will also provide a food or shelter resource to wildlife.

This landscape and ecological management plan details management of the landscape following development only.

This landscape and ecological management plan should be implemented in its entirety by a suitable management agent who will be responsible for achieving long term objectives.

A management agent will be confirmed and appointed by the developer once the main development works have commenced on site.

3 Landscape Design Objectives

The overall design objectives are as follows:

1. Carry out tree planting, formal hedges, ornamental shrub and herbaceous planting, and turfed grass around the housing plots to soften the development and provide an attractive setting;
2. To include the recommendations of the Arboricultural Impact Assessment report including:
 - a. The planting of trees, shrubs, and where applicable hedges as part of a comprehensive landscape scheme to replace any vegetation lost and to integrate the development into the wider landscape; and
 - b. The use of a mixture of native and ornamental species within planting schemes, where those species are suited to the site and local landscape.
3. To include the recommendations of the preliminary ecological report including:
 - a. Crevice bat boxes should be integrated into the residential development.
 - b. Bird boxes should be erected across the site, to compensate for the potential loss of hedgerows and the trees.
 - c. Fence gaps for hedgehogs should be at ground level, approximately 13cm by 13cm, and in each garden.
 - d. The landscape plan should include the creation of additional hedgerows to compensate for the loss of hedgerows on site. These hedgerows should derive from a minimum of five woody species.
 - e. Grassland on site should be kept low (<10cm) to deter brown hare from breeding on site.
 - f. Where possible, all woody/scrub vegetation to be affected should be removed by hand prior to potentially disturbing works taking place.
 - g. Tree TN5 & TN6 to only be removed under RAMs as detailed and under the watching brief of a licensed bat ecologist. Site lighting to avoid illumination of suitable features for bats such as trees and hedgerows.
 - h. Vegetation removal works should take place outside of the bird breeding season (i.e. October – February). A survey will not be required if potentially disturbing works are undertaken during this period although due diligence is required of site workers.
4. To carry out tree, shrub, and hedgerow planting to provide screening where required;
5. Habitat enhancement to include planting of native species and a variety of ornamental species at suitable locations to attract pollinators;
6. To retain natural buffers and other site features and enhance them by good management and species diversification; and
7. Implementation of new native hedgerows, grassland that is eco species rich, and shrub areas to benefit wildlife habitats.

4 Management Proposals

This management plan covers detailed maintenance operations for an initial maintenance period of two years, followed by an establishment period covering years three-five. During this period, the operations proposed will ensure new planting and grass is establishing well and showing healthy growth, and that groundcover planting is provided as per the attached planting plans (See Appendix 1).

Long term management proposals are included for years six to twenty-five (the maturing phase) and this period will involve less intensive management of planting, although ongoing monitoring will be essential to ensure the character of the public open space is maintained and replacement planting is accomplished when necessary to ensure good species diversification. Long term, any felled trees are to be replaced with a suitable species to retain the character of the previous tree.

Although this management plan covers a twenty-five-year period, it should be reviewed at a minimum of five-year intervals to ensure the initial objectives are being achieved. Additional monitoring of the different habitat areas is essential as natural changes are likely to occur and there could be future changes in legislation, both of which could have an impact on the future management of the site.

4.1 Management Proposals Objectives

Residential Development Management: To ensure good establishment of ornamental planting and the maintenance of communal planting areas. To retain and enhance the existing trees and hedgerows to maintain a range of different types and sizes of species, to support a wide variety of wildlife and provide a corridor to allow movement of wildlife. The hedgerows should have a continuous, dense base and adjacent perennial grass margin, although gaps created by badgers for access should be left.

Public Open Space Management: To ensure the existing vegetation and the new planting are managed to retain the character and diversity of the area and there is good protection of existing habitats. Monitor and enhance biodiversity of the existing habitats to ensure flora and fauna continue to thrive.

Sustainable Drainage Systems (SuDS) Management: To ensure the infiltration basins provide attractive surroundings for the community and creates opportunities for wildlife. To ensure the correct water flow is managed to retain the character and diversity of the area whilst preventing pollution by intercepting silt and cleaning runoff from hard surfaces.

4.2 Detailed Management Proposals

4.2.1 Maintenance Phase (Years 1-2)

Feature	Description and specification
Existing Vegetation	
Existing trees to be retained	Re-inspect once and specify any applicable management / and any on-going monitoring to ensure trees are safe and to improve / maintain health where necessary. Preliminary recommendations made at the time of the Tree Survey can be found within P.1416.20B Ascerta Arboricultural Impact Assessment, Rossett Road.
Existing Hedgerow	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting, if required.
New Planting	
New tree planting	Water to ensure good establishment. Undertake formative pruning. Annually replace dead or dying stock and check stakes and tree ties and adjust / replace if necessary. Hand weed around the base of tree to ensure weed free and top up mulch annually.
New native shrub mix planting:	Weed control by hand to ensure planting area is weed free. Check stakes and shelter guards are in place and replace where necessary. Replace dead / dying stock in winter.
New formal hedge	Weed control by hand to ensure planting area is weed free. Check stakes and shelter guards are in place and replace where necessary. Application of compost / fertiliser twice yearly. Replace dead / dying stock in winter. Prune if required, to encourage good establishment and water when necessary.
Native mixed hedgerow and hawthorn hedgerow planting	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required.
Ornamental shrub and herbaceous planting	Weed control by hand to maintain weed free area around planting during the growing period. Apply fertiliser twice yearly and top up mulch annually. Prune as necessary to ensure health growth and natural shape of the plant.
Turf and Seeding Areas	
Amenity grass (Germinal AberSustain mix)	Mow every two weeks during the growing season to a height of 30mm. Apply fertiliser annually and spot treat pernicious weeds.
Informal grass areas (Germinal Eco Species Rich Lawn mix)	Cut twice a year, once during the late spring and once after the flowering season (September / October) to maintain a sward of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
Wildflower RE3 River Floodplain / Water Meadow (MG8 Grassland)	Autumn Sown: during the first year: first cut shall be early July, then monthly during August, September, and October to maintain a sward of 70mm. Thereafter: shall be cut 2 times a year mid-July to early September to maintain a sward of 70mm. Spring Sown: during the first year: first cut shall be mid-September, then again during October to maintain a sward of 70mm. Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of 70mm.

	The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up. An area of up to one third should be left uncut when cutting in late summer, until the following spring for overwintering invertebrates. This operation should rotate areas each year.
Remaining wildflower areas (Germinal WF19 Pollinators Paradise)	Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
Other Features	
Hard surfacing	Check annually and repair any defects. Remove encroaching moss/ grass annually on paths and pavements to keep edging exposed.
Fencing/ boundary treatments	Check annually, repair any defects, and replace when necessary.
Bat / Bird Boxes	Bird boxes to be checked annually. Bat boxes to be checked annually by a licensed bat ecologist. Repair any defects and replace when necessary. The bat box, if damaged, should only be replaced by a licensed bat ecologist.
Inlet structures	Check monthly for obstructions and remove as necessary, to allow free water flow into the infiltration basins.
Silt management	Check twice a year for silt accumulation and remove as necessary.
Litter Management	
Litter	Check monthly for litter or other debris and remove as necessary.
Suds litter	Check monthly for litter or other debris and remove as necessary.
Weed Control	
Weed control within Suds areas	Occasionally remove pond vegetation if it spreads across the basins by hand clearing or raking. Monitor for invasive weeds such as Japanese Knotweed and control if found.
Hard surfacing weed control	Check pavements and kerbs annually for weeds and spray affected areas with herbicide to keep weed free.
Paths	Remove encroaching moss/ grass from paths and pavements annually to keep edging exposed. Spray with herbicide if necessary.

4.2.2 Establishment Phase (Years 3-5)

Feature	Description and specification
<u>Existing Vegetation</u>	
Existing trees to be retained	Re-inspect as advised in Maintenance Phase (Years 1-2) and specify any applicable management / and any on-going monitoring to ensure trees are safe and to improve / maintain health where necessary.
Existing Hedgerow	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required.
<u>New Planting</u>	
New tree planting	Undertake formative pruning if necessary. Annually replace dead or dying stock and check stakes and tree ties and adjust / replace if necessary. Hand weed around the base of tree to ensure weed free and top up mulch annually. Year 3 and 4 – Adjust tree ties where necessary. Year 5 – Remove tree stakes and ties. Leave any tree stakes and ties where trees appears to be on weak rootstocks.
New native shrub mix planting:	Replace any dead stock in winter. Weed control to maintain weed free area around planting during the growing period. Apply fertiliser twice yearly and top up mulch annually. Year 3 - Remove the shelters and stakes. Prune the shrub mix as necessary to ensure healthy growth and create a natural shape.
New formal hedge	Weed control by hand to ensure planting area is weed free. Check stakes and shelter guards are in place and replace where necessary remove stakes and shelter guards by the end of year 5. Prune to encourage good establishment and a neat appearance at maximum height of 1.0m.
Native mixed hedgerow and hawthorn hedgerow planting	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required. Check stakes and shelter guards are in place and replace where necessary remove stakes by the end of year 5. Prune to encourage good establishment and a neat appearance at maximum height of 2.0m.
Ornamental shrub and herbaceous planting	Weed control by hand to maintain weed free area around planting during the growing period. Apply fertiliser twice yearly and top up mulch annually. Prune as necessary to ensure health growth and natural shape of the plant. Replace any dead stock in winter.
<u>Turf and Seeding Areas</u>	
Amenity grass (Germinal AberSustain mix)	Mow every two weeks during the growing season to a height of 30mm. Apply fertiliser annually and spot treat pernicious weeds.
Informal grass areas (Germinal Eco Species Rich Lawn mix)	Cut twice a year, once during the late spring and once after the flowering season (September / October) to maintain a sward of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
Wildflower RE3 River Floodplain / Water Meadow (MG8 Grassland)	Cut twice a year, once during the late spring and one after the flowering season (September / October) to maintain a sward of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

Remaining wildflower areas (Germinal WF19 Pollinators Paradise)	Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
Other Features	
Hard surfacing	Check annually and repair any defects. Remove encroaching moss/ grass annually on paths and pavements to keep edging exposed.
Fencing/ boundary treatments	Check annually, repair any defects, and replace when necessary.
Bat / Bird Boxes	Bird boxes to be checked annually. Bat boxes to be checked annually by a licensed bat ecologist. Repair any defects and replace when necessary. The bat box, if damaged, should only be replaced by a licensed bat ecologist.
Inlet structures	Check monthly for obstructions and remove as necessary, to allow free water flow into the infiltration basins.
Silt management	Check twice a year for silt accumulation and remove as necessary.
Litter Management	
Litter	Check monthly for litter or other debris and remove as necessary.
Suds litter	Check monthly for litter or other debris and remove as necessary.
Weed Control	
Weed control within Suds areas	Occasionally remove pond vegetation if it spreads across the basins by hand clearing or raking. Monitor for invasive weeds such as Japanese Knotweed and control if found.
Hard surfacing weed control	Check pavements and kerbs annually for weeds and spray affected areas with herbicide to keep weed free.
Paths	Remove encroaching moss/ grass from paths and pavements annually to keep edging exposed. Spray with herbicide if necessary.

4.2.3 Maturing Phase (Years 6-25)

Feature	Description and specification
<u>Existing Vegetation</u>	
Existing trees to be retained	Re-inspect as advised in Maintenance Phase (Years 1-2) and specify any applicable management / and any on-going monitoring to ensure trees are safe and to improve / maintain health where necessary.
Existing Hedgerow	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required.
<u>New Planting</u>	
New tree planting	Year 10 - Formative pruning of established trees to remove crossing/rubbing branches and any other defects. Removal of competing leaders if considered appropriate. Year 15- carry out inspections on a 5-year rotation to advise on any works to improve quality of trees and maintain safety / prevent any developing hazards.
New native shrub mix planting:	Prune back the shrub mix as necessary to ensure healthy growth and create a tidy natural shape. Carry out replacement of dead plants in winter. Weed control by hand to maintain weed free area around planting during the growing period.
New formal hedge	Weed control by hand to ensure planting area is weed free. Prune to encourage good establishment and a neat appearance at maximum height of 1.0m.
Native mixed hedgerow and hawthorn hedgerow planting	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required. Prune to encourage good establishment and a neat appearance at maximum height of 2.0m.
Ornamental shrub and herbaceous planting	Weed control by hand to maintain weed free area around planting during the growing period. Apply fertiliser twice yearly and top up mulch annually. Prune as necessary to ensure health growth and natural shape of the plant. Carry out replacement of dead plants in winter.
<u>Turf and Seeding Areas</u>	
Amenity grass (Germinal AberSustain mix)	Mow every two weeks during the growing season to a height of 30mm. Apply fertiliser annually and spot treat pernicious weeds.
Informal grass areas (Germinal Eco Species Rich Lawn mix)	Cut twice a year, once during the late spring and once after the flowering season (September / October) to maintain a sward of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
Wildflower RE3 River Floodplain / Water Meadow (MG8 Grassland)	Cut twice a year, once during the late spring and one after the flowering season (September / October) to maintain a sward of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
Remaining wildflower areas (Germinal WF19 Pollinators Paradise)	Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
<u>Other Features</u>	
Hard surfacing	Check annually and repair any defects. Remove encroaching moss/ grass annually on paths and pavements to keep edging exposed.

Fencing/ boundary treatments	Check annually, repair any defects, and replace when necessary.
Bat / Bird Boxes	Bird boxes to be checked annually. Bat boxes to be checked annually by a licensed bat ecologist. Repair any defects and replace when necessary. The bat box, if damaged, should only be replaced by a licensed bat ecologist.
Inlet structures	Check monthly for obstructions and remove as necessary, to allow free water flow into the infiltration basins.
Silt management	Check twice a year for silt accumulation and remove as necessary.
Litter Management	
Litter	Check monthly for litter or other debris and remove as necessary.
Suds litter	Check monthly for litter or other debris and remove as necessary.
Weed Control	
Weed control within Suds areas	Occasionally remove pond vegetation if it spreads across the basins by hand clearing or raking. Monitor for invasive weeds such as Japanese Knotweed and control if found.
Hard surfacing weed control	Check pavements and kerbs annually for weeds and spray affected areas with herbicide to keep weed free.
Paths	Remove encroaching moss/ grass from paths and pavements annually to keep edging exposed. Spray with herbicide if necessary.

5 Annual Maintenance Schedule

The annual schedule summarises the maintenance operations required for a one year period, to be repeated for the first five years and should be reviewed on an annually to allow for any changes that may be required as the site develops and matures.

MONTH	J	F	M	A	M	J	J	A	S	O	N	D
OPERATION												
Management of Existing Trees												
Inspect for hazards and deteriorations in health and/ or structural integrity								X				
Pruning/ Crown lift / thin existing trees above footpaths, paths, and near buildings	In accordance with recommendation made during inspection / identification of work											
Other tree works	In accordance with recommendation made during inspection / identification of work											
Management of Existing Hedgerow												
Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required.	X	X										
New Tree Planting												
Water as required to ensure good establishment				X	X	X	X	X	X			
Basic formative pruning	X											
Check stakes and tree ties and adjust / replace (years 1 to 4, remove at year 5) if necessary and hand weed around base	X				X				X			
Top up mulch											X	
Carry out replacement of dead or dying stock											X	
New Native Shrub Mix Planting												
Weed control					X		X		X			
Water as required to ensure establishment				X	X	X	X	X	X			
Apply fertiliser				X				X				
Top up mulch											X	
Replacement planting of dead or dying stock											X	
Check shelters and stakes (years 1 to 2, remove at year 3)	X				X				X			
Prune the shrub mix to ensure healthy growth and create a natural shape.	X	X										
Management of Native Mixed Hedgerow and Hawthorn Hedgerow Planting												
Trim on a three-year rotation	X											
Formative pruning to new hedgerow	X											
Monitor and weed around new planting and check and adjust stakes, ties, and shelter guards	X				X				X			
Carry out planting to fill any gaps in hedgerow											X	
Apply compost or fertiliser to new planting				X				X				

Replace dead or dying plant stock											X	
Ornamental and Herbaceous Shrub Planting												
Weed control					X		X		X			
Water as required to ensure establishment				X	X	X	X	X	X			
Apply fertiliser				X				X				
Top up mulch											X	
Replacement planting of dead or dying stock											X	
Management of Amenity Grass (Germinal AberSustain mix)												
Mow every two weeks during spring / summer to a height of 30mm				X	X	X	X	X	X	X		
Spot treat pernicious weeds					X			X				
Apply fertiliser			X									
Wildflower and Informal Grass Areas (Germinal Eco Species Rich Lawn mix)												
Mow twice a year to a height of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.				X					X			
Spot treat pernicious weeds					X			X				
Wildflower RE3 River Floodplain / Water Meadow (MG8 Grassland)												
Mow twice a year to a height of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.				X					X			
Spot treat pernicious weeds					X			X				
Remaining wildflower areas (Germinal WF19 Pollinators Paradise)												
Mow twice a year to a height of 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.				X					X			
Spot treat pernicious weeds					X			X				
Management of Other Site Features												
Check and repair fencing, surfacing and street furniture and repair when required					X						X	
Visually inspect bird and bat boxes and replace if damaged by suitably licenced ecologist.										X		
Crown lift trees above footpaths and pavements	X											
Check monthly for litter or other debris and remove as necessary.	X	X	X	X	X	X	X	X	X	X	X	X
Check monthly for suds litter or other debris and remove as necessary.	X	X	X	X	X	X	X	X	X	X	X	X
Check pavements and kerbs annually for weeds and spray affected areas with herbicide to keep weed free.										X		
Remove encroaching moss/ grass from paths and pavements annually to keep edging exposed. Spray with herbicide if necessary.										X		

6 Long Term Maintenance Schedule (Years 6-25)

The long-term management plan is a guideline for the maturing phase of the site. As mentioned earlier this should be reviewed every 5 years as a minimum to take account of site based ecological changes and amendments to legislation.

YEAR	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
OPERATION	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Management of Trees																				
Monitor and manage standard trees	Annually if appropriate				x					x					x					x
Remove stakes / ties as required	x	x	x	x	x															
Crown lift / thin existing trees above footpaths, paths, and near buildings					x					x					x					x
Monitor for invasive species	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Management of Native Hedgerows																				
Manage hedgerows by trimming 1/3 each year	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Manage hedgerows by laying or coppicing,			Lay or coppice hedgerow initially between 8 to 15 years when condition of the hedge is poor.									Lay or coppice hedgerow a second time after 8 to 12 years after first cut.								
Manage hedgerows by planting in gaps	x				x					x					x					x
Formal Hedgerow																				
Prune as necessary to maintain a neat appearance	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Ornamental Shrub and Herbaceous Planting																				

Continue to carry out annual pruning and weed control	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Other Site Features																				
Monitor and repair fencing, surfacing and street furniture and repair when required	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Visually inspect bird and bat boxes and replace if damaged by suitably licenced ecologist.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Check monthly for litter or other debris and remove as necessary.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Check monthly for suds litter or other debris and remove as necessary.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Check pavements and kerbs annually for weeds and spray affected areas with herbicide to keep weed free.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Remove encroaching moss/ grass from paths and pavements annually to keep edging exposed. Spray with herbicide if necessary.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

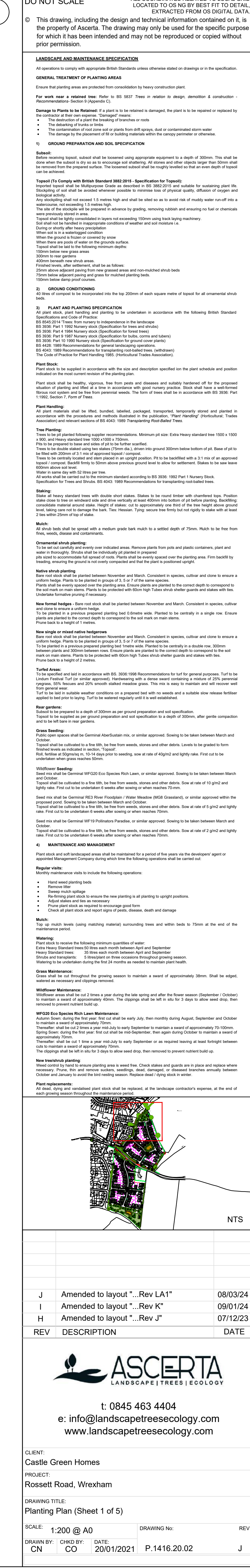
7 Summary

This report described the proposed development, the landscape design objectives and set out detailed management proposals to ensure a high-quality environment within the development.

This report provides:

- Public Open Space management proposals to ensure the existing vegetation and new planting are managed to retain and enhance the character and diversity of the area. To ensure there is good protection of the existing habitats. To monitor and enhance biodiversity of the existing habitats to certify that flora and fauna continue to thrive, providing attractive surroundings for the community and create opportunities for wildlife.
- Provide a detailed description of the maintenance operations required for Maintenance Phase (Years 1-2), Establishment Phase (Years 3-5) and Long-Term Management Guidelines (Years 6-25).
- Provide an annual schedule that summarises the maintenance operations required for a one-year period to be repeated for the first five years and a Long-Term Maintenance Schedule (Years 6-25).

Appendix 1



Plant Schedule						
Trees						
Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
8	A ca	Acer campestre	Heavy Standard: 5 brks. 3x RB. Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
12	A ca 'E'	Acer campestre 'Elegit'	Heavy Standard: 5 brks. 3x RB. Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
12	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks. 3x RB. Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks. 3x RB. Clear Stem min. 200cm	350-425cm	12-14cm	Counted
15	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks. 3x RB. Clear Stem 175-200cm	350-425cm	12-14cm	Counted
2	BET PEN	Betula pendula	Extra Heavy Standard: 3x RB. Clear Stem min. 200cm	450-500cm	18-20cm	Counted
12	B pub	Betula pubescens	Heavy Standard: 5 brks. 3x RB. Clear Stem 175-200cm	350-425cm	12-14cm	Counted
12	C be 'F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks. 3x RB. Clear Stem 175-200cm	350-425cm	12-14cm	Counted
12	PRU PAD	Prunus padus	Heavy Standard: 5 brks. 3x RB. Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4	PRUPADA	Prunus padus	Extra Heavy Standard: 3x RB. Clear Stem min. 200cm	450-500cm	18-20cm	Counted
14	PRUPAAL	Prunus padus 'Alberti'	Heavy Standard: 5 brks. 3x RB. Clear Stem 175-200cm	350-425cm	12-14cm	Counted
11	Q pe	Quercus petraea	Heavy Standard: 5 brks. 3x RB. Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3	QUE ROB	Quercus robur	Heavy Standard: 5 brks. 3x RB. Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3	S c	Salix caprea	Heavy Standard: 5 brks. 3x RB. Clear Stem 175-200cm	350-425cm	12-14cm	Counted
Total: 118						

Shrubs						
Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density
150	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks. C	20-25cm	3L	4/m ²
32	BRA SUN	Brachyglottis Sunburst	Branched: 4 brks. C	30-40cm	3L	2/m ²
7	CEA MOU	Ceanothus 'Blue Mound'	Branched: 5 brks. C	3L	3/m ²	2,248m ²
3	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks. C	3L	3/m ²	0,9847m ²
6	CHO PEA	Choisya ternata 'Sundance'	Bushy: 3 brks. C	30-40cm	3L	3/m ²
12	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks. C	30-40cm	3L	3/m ²
4	CIS PIN	Cistus 'Silver Pink'	Bushy: 4 brks. C	20-30cm	3L	3/m ²
4	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks. C	40-60cm	3L	3/m ²
18	COT PUR	Cotinus coccinea 'Royal Purple'	Branched: 3 brks. C	30-40cm	3L	3/m ²
9	ELA EBB	Elaeagnus x ebbingtonii	Branched: 3 brks. C	30-40cm	3L	3/m ²
124	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: 3 brks. C	3L	3/m ²	12,585m ²
89	ERI WHI	Erica carnea 'Springwood White'	Bushy: 3 brks. C	3L	3/m ²	16,644m ²
154	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks. C	20-30cm	3L	3/m ²
18	EUO GLO	Euonymus fortunei 'Silver Queen'	Bushy: 3 brks. C	20-30cm	3L	3/m ²
4	FUCH POP	Fuchsia 'Mrs Foppie'	Bushy: 5 brks. C	20-30cm	3L	3/m ²
9	GEN LYO	Genista Lydia	Bushy: 5 brks. C	3L	3/m ²	2,737m ²
90	HEB GLO	Hebe Autumn Glory	Bushy: 5 brks. C	20-30cm	3L	3/m ²
48	HEB GEM	Hebe Green Globe	Bushy: 7 brks. C	20-30cm	3L	3/m ²
62	HEB WIN	Hebe Mrs Winder	Bushy: 5 brks. C	30-40cm	3L	3/m ²
39	HEB RAK	Hebe rakensis	Bushy: 5 brks. C	3L	3/m ²	12,117m ²
29	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks. C	40-60cm	3L	3/m ²
13	HYD LIM	Hydrangea paniculata Little Lime	Branched: 3 brks. C	30-40cm	3L	3/m ²
53	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks. C	40-60cm	3L	3/m ²
14	LAV HID	Lavandula angustifolia 'Hidolot'	Bushy: 5 brks. C	20-30cm	3L	3/m ²
9	LON PIL	Lonicera pileata	Bushy: 6 brks. C	3L	3/m ²	2,762m ²
26	MAH APO	Malva aquilum 'Apollo'	Branched: 2 brks. C	20-30cm	3L	4/m ²
26	PHO ROB	Phlox x Fraseri 'Little Red Robin'	Bushy: 6 brks. C	40-60cm	3L	4/m ²
6	PIE PLA	Pieris Forest Flame	Bushy: 3 brks. C	30-40cm	3L	3/m ²
14	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 4 brks. C	3L	3/m ²	2,317m ²
36	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 3 brks. C	3L	4/m ²	2,466m ²
8	PRU LUS	Prunus lusitanica	Bushy: 4 brks. C	30-40cm	3L	2/m ²
23	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks. C	20-30cm	3L	3/m ²
3	SKI RUB	Skimmia japonica Rubella	Bushy: 3 brks. C	30-40cm	3L	4/m ²
10	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 7 brks. C	20-30cm	3L	3/m ²
18	VIB DAY	Viburnum davidii	Bushy: 3 brks. C	20-30cm	3L	3/m ²
12	VIB MAJ	Viburnum majus 'Eve Price'	Several Shoots: 3 brks. C	30-40cm	3L	3/m ²
Total: 1334						

Herbaceous						
Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density
24	ALC MOL	Alchemilla mollis	Full Pot: C	3L	3/m ²	2,298m ²
30	AST FAN	Astilbe 'Fanal'	Full Pot: C	3L	4/m ²	6,837m ²
14	AST GRA	Astilbe 'Gratia'	Full Pot: C	3L	4/m ²	3,349m ²
61	BER COR	Bergenia cordifolia	Full Pot: C	3L	5/m ²	1,3051m ²
13	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C	3L	4/m ²	3,0663m ²
24	EUP ROB	Euphorbia chamaecyparissus	Full Pot: C	3L	5/m ²	4,466m ²
68	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C	3L	4/m ²	3,3905m ²
61	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C	3L	4/m ²	13,7183m ²
32	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C	3L	4/m ²	7,4305m ²
5	HEU PIE	Heuchera 'Key Lime Pie'	Full Pot: C	3L	4/m ²	1,0089m ²
96	HEU MAR	Heuchera 'Marmalade'	Full Pot: C	3L	4/m ²	22,4475m ²
24	HEU PUR	Heuchera 'Moroccan Palace Purple'	Full Pot: C	3L	4/m ²	5,3945m ²
15	HEU GOL	Heuchera 'Rustic Gold'	Full Pot: C	3L	4/m ²	5,4755m ²
8	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C	3L	4/m ²	1,9382m ²
Total: 440						

Formal Hedge						
Number	Abbreviation	Species	Specification	Height	Pot Size	Density
5726	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks. C	20-40cm	2L	5/m
Total: 1134 1184m						

Hawthorn Hedgerow						
Number	Abbreviation	Species	Specification	Height	Density	Length
661	C mon	Crataegus monogyna	1+1 Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	99.0152m
Total: 99.0152m						

Grass Areas						
Area	Seed Mix Name	Seed Mix Supplier	Density	Weight	Area	Weight
6846.2644m ²	AberSustain	Germinal	40/m ²	127395g	6846.2644m ²	127395g
929.3449m ²	RE3	Germinal	50/m ²	4648g	929.3449m ²	4648g
345.6102m ²	WF19 Pollinators Paradise	Germinal	20/m ²	220g	345.6102m ²	220g
2726.5269m ²	WFG20 Eco Species Rich Lawn	Germinal	10/m ²	2273g	2726.5269m ²	2273g
Total: 10851.7464m ²						

Native Shrub Mix						
Number	Abbreviation	Species	Specification	Height	Pot Size	Density
88	COR AVE	Cornus avellana	1+2 Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	15%
225	CRA MON	Crataegus monogyna	1+1 Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	15%
88	ILE AQU	Ilex aquifolium	Leader with Lateral: C	40-60cm	3L	15%
115	PRU SPI	Prunus spinosa	1+1 Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	10%
60	VIBOP	Viburnum opulus	1+2 Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	10%
Total: 576						

Native Hedgerow Mix						
Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution
74	ACE CAM	Acer campestre	1+1 Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	5%
217	COR AVE	Cornus avellana	1+2 Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	15%
546	CRA MON	Crataegus monogyna	1+1 Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	45%
145	ILE AQU	Ilex aquifolium	1+0 Seedlings: CE	20-40cm	0.3Cr Double Staggered at 0.3m offset	10%
289	PRUSP	Prunus spinosa	1+1 Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	20%
74	ROS CAN	Rosa canina	1+1 Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	5%
Total: 1445						

Site Boundary

Existing trees and hedgerows to be retained and protected during the works.

Existing trees to be removed

Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.

Proposed native tree planting, tree pit and double staking as detailed in the specification.

Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.

Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.

Proposed single/mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.

Front gardens to be turfed on 150mm topsoil.

Public open space to be sown with Germinal AberSustain mix, or similar approved, to be sown at a rate of 40g/m² on 150mm topsoil.

Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m² on 150mm topsoil.

Native tree / shrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.

Wildflower seeding, Germinal RES River Floodplain / Water Meadow (MGB Grassland), to the existing water course to public open space to be sown at 5g/m².

Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m².

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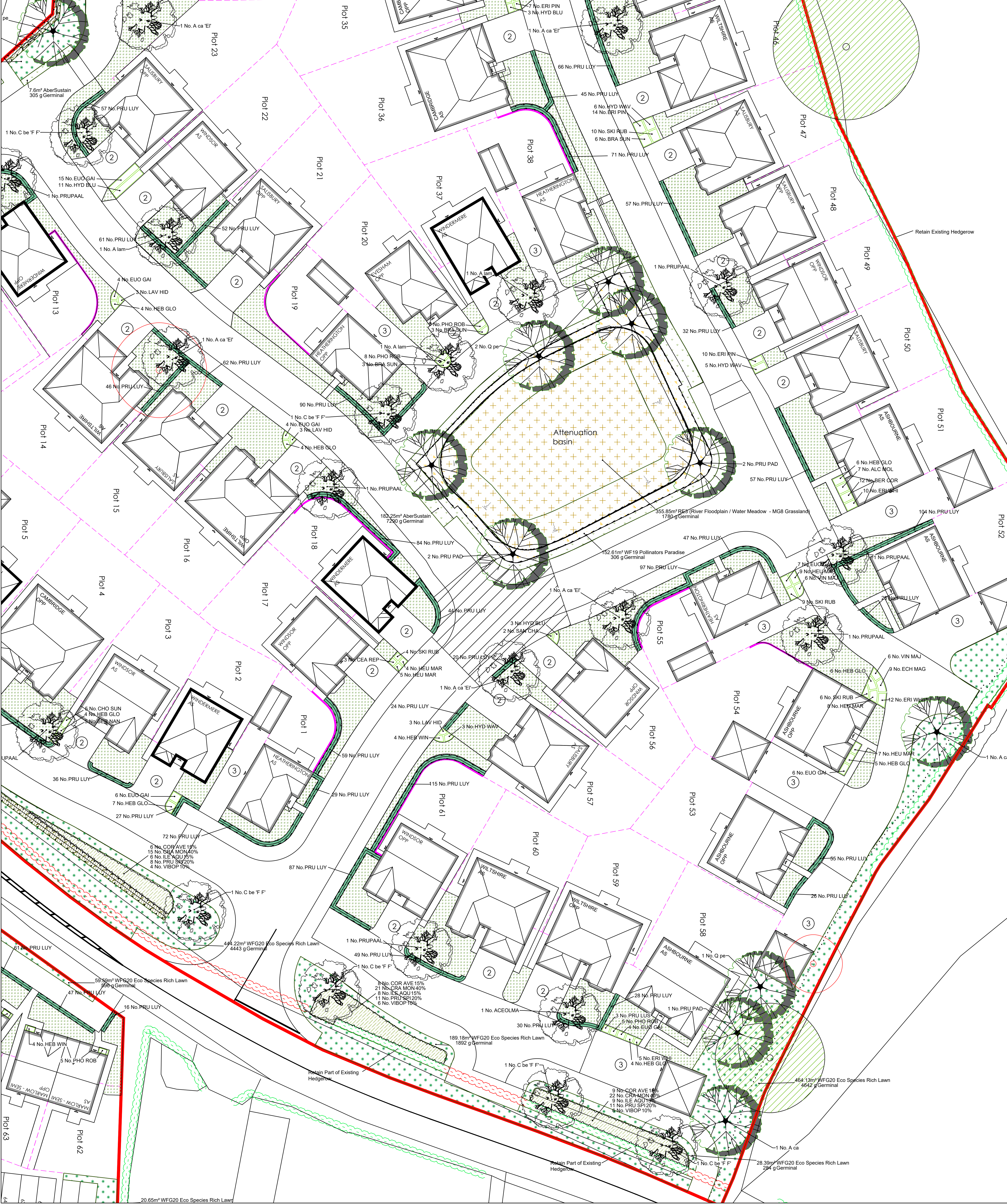
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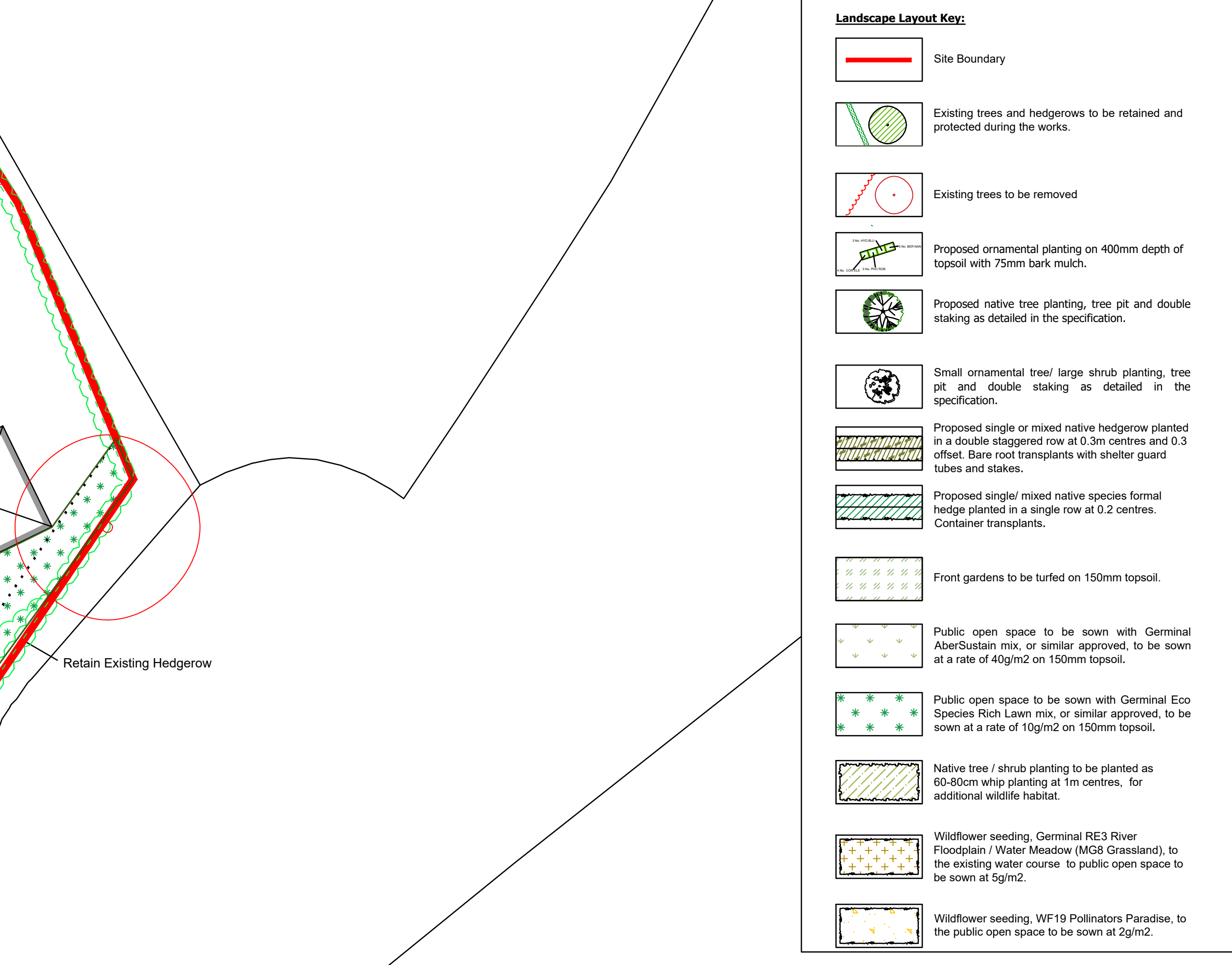
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Plant Schedule									
Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area	Counted	
6	A ca 'Ei'	Acer campestre	Heavy Standard: 5 brks: 3x RB: Clear Stem minimum 200cm	350-425cm	12-14cm		55.6905m²		
12	A ca 'Ei'	Acer campestre 'Elanik'	Heavy Standard: 5 brks: 3x RB: Clear Stem minimum 200cm	350-425cm	12-14cm		55.6905m²		
12	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x RB: Clear Stem 175-200cm	350-425cm	12-14cm		55.6905m²		
12	ALN GLU	Ahies glauca	Heavy Standard: 5 brks: 3x RB: Clear Stem min. 200cm	350-425cm	12-14cm		55.6905m²		
15	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x RB: Clear Stem 175-200cm	300-350cm	12-14cm		55.6905m²		
2	BET PEN	Betula pendula	Extra Heavy Standard: 3x RB: Clear Stem min. 200cm	450-500cm	18-20cm		55.6905m²		
12	Betula pubescens	Betula pubescens	Heavy Standard: 5 brks: 3x RB: Clear Stem 175-200cm	350-425cm	12-14cm		55.6905m²		
7	C be 'F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x RB: Clear Stem 175-200cm	350-425cm	12-14cm		55.6905m²		
12	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x RB: Clear Stem 175-200cm	350-425cm	12-14cm		55.6905m²		
12	PRU PAD	Prunus padus	Extra Heavy Standard: 3x RB: Clear Stem min. 200cm	450-500cm	18-20cm		55.6905m²		
14	PRU PAAL	Prunus padus 'Alberville'	Heavy Standard: 5 brks: 3x RB: Clear Stem 175-200cm	350-425cm	12-14cm		55.6905m²		
11	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x RB: Clear Stem 175-200cm	350-425cm	12-14cm		55.6905m²		
3	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x RB: Clear Stem 175-200cm	350-425cm	12-14cm		55.6905m²		
3	S c	Salix caprea	Heavy Standard: 5 brks: 3x RB: Clear Stem 175-200cm	350-425cm	12-14cm		55.6905m²		
Total: 118									

Shrub									
Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area	Counted	
150	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²	55.6905m²		
32	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m²	13.6099m²		
7	CEA MOU	Ceanothus 'Blue Mound'	Branched: 5 brks: C	3L	3/m²	3.2486m²			
3	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C	3L	3/m²	3.2486m²			
5	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	1.5738m²		
12	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.4681m²		
4	COS PIN	Cistus 'Silver Pink'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.2076m²		
4	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²	1.015m²		
18	COT PUR	Cotinus coccinea 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²	5.5131m²		
9	E LA FBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m²	2.6789m²		
124	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C	3L	5/m²	23.7658m²			
89	ERI WHI	Erica carnea 'Springwood White'	Bushy: C	3L	5/m²	16.6444m²			
154	EUC GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	57.6146m²		
16	EUC QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	4/m²	3.793m²		
4	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²	1.2433m²		
9	GEN LYD	Gonolobus lydia	Bushy: 5 brks: C	30-40cm	3L	3/m²	2.7373m²		
90	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m²	26.6019m²		
24	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	3.3595m²		
62	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	18.8626m²		
39	HEB RAK	Hebe rakensis	Bushy: 5 brks: C	30-40cm	3L	3/m²	12.1117m²		
29	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²	12.4803m²		
13	HYD LIM	Hydrangea paniculata 'Little Lime'	Branched: 3 brks: C	30-40cm	3L	3/m²	2.2011m²		
53	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	5L	2/m²	23.4465m²		
22	LAV HID	Lavandula angustifolia 'Hidcot'	Bushy: 5 brks: C	20-30cm	3L	3/m²	5.9093m²		
9	ON PIL	Ononis pilifera	Bushy: 5 brks: C	20-30cm	3L	3/m²	2.2317m²		
26	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	4/m²	1.2688m²		
90	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m²	21.1028m²		
6	PHE FLA	Pieris Forest Flame	Bushy: 3 brks: C	30-40cm	3L	3/m²	1.8467m²		
14	POT ABB	Potentilla fruticosa 'Abbotwood'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.9716m²		
36	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 3 brks: C	2L	4/m²	8.2466m²			
8	PRU LUS	Prunus lusitana	Bushy: 4 brks: C	30-40cm	3L	2/m²	3.3262m²		
23	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	30-40cm	3L	3/m²	11.2053m²		
9	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 3 brks: C	30-40cm	4L	4/m²	22.4167m²		
10	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 7 brks: C	20-30cm	3L	3/m²	2.9704m²		
18	VIB DAV	Viburnum davidii	Bushy: 3 brks: C	20-30cm	3L	3/m²	3.6555m²		
16	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	7.0633m²		
12	VIN MAJ	Vinca major	Several Shoots: 3 brks: C	3L	3/m²	3.603m²			
Total: 1334									



Herbaceous									
Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area	Counted	
24	ALC MOL	Achillea millefolium	Full Pot: C	3L	3/m²	17.2887m²			
30	AST FAN	Astilbe 'Fanal'	Full Pot: C	3L	4/m²	6.837m²			
14	AST GRA	Astilbe 'Granat'	Full Pot: C	3L	4/m²	3.349m²			
61	BER COR	Berberis cordifolia	Full Pot: C	3L	5/m²	11.2053m²			
13	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C	3L	4/m²	3.0663m²			
24	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot: C	3L	5/m²	4.4666m²			
35	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C	3L	4/m²	7.3905m²			
61	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C	3L	4/m²	13.7183m²			
32	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C	3L	4/m²	7.4305m²			
96	HEU PIE	Heuchera 'Key Lime Pie'	Full Pot: C	3L	4/m²	1.0088m²			
96	HEU MAR	Heuchera 'Marmalade'	Full Pot: C	3L	4/m²	22.4475m²			
24	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot: C	3L	4/m²	5.3945m²			
15	RUD GOL	Rudbeckia fulgida sylvatica 'Goldsturm'	Full Pot: C	3L	4/m²	3.4755m²			
8	SAL TRI	Salvia officinalis 'Tirocin'	Full Pot: C	3L	4/m²	1.9382m²			
Total: 440									

Formal Hedge									
Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length	Counted	
5726	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks: C	60-80cm	0.3C	Double Staggered at 0.3m offset	1134.2184m		
									Total: 1134.4184m

Hawthorn Hedgerow									
Number	Abbreviation	Species	Specification	Height	Density	Length	Counted		
851	C mon	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	99.0152m		
									Total: 99.0152m

Grass Areas									
Area	Seed Mix Name	Seed Mix Supplier	Density	Weight	Counted				
8846.2644m²	Aber-Sustain	Germinol	10g/m²	12.3856g					
929.3449m²	RE3	Germinol	5g/m²	4.648g					
349.6102m²	WF19 Pollinators Paradise	Germinol	2g/m²	1700g					
2728.5265m²	WFG20 Eco Species Rich Lawn	Germinol	10g/m²	2727.3g					
Total: 10851.7464m²									Total: 306477

Native Shrub Mix									
Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area	Counted
88	ACR AVE	Corylus avellana	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	5%	10.7158m	
225	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	15%	32.1476m	
88	ILE AQU	Ilex aquifolium	Leader with Lateral: C	40-60cm	3L	1C	15%	96.4426m	
165	ILE AQU	Ilex aquifolium	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	40%	21.4318m	
289	PRUS SPI	Prunus spinosa	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	10%	42.8633m	
74	ROS CAN	Rosa canina	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	5%	10.7158m	
Total: 576									Total: 214.3169m

Native Hedgerow Mix									
Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution	Length	Counted	
74	ACR AVE	Corylus avellana	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	5%	10.7158m	
217	ACR AVE	Corylus avellana	1+2: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	15%	32.1476m	
646	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	40%	96.4426m	
165	ILE AQU	Ilex aquifolium	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	10%	21.4318m	
289	PRUS SPI	Prunus spinosa	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	10%	42.8633m	
74	ROS CAN	Rosa canina	1+1: Transplant - seed raised: B	60-80cm	0.3C	Double Staggered at 0.3m offset	5%	10.7158m	
Total: 1445									Total: 214.3169m

DO NOT SCALE

ALL COORDINATES RELATED TO LOCAL GRID LOCATED TO OS NGB BEST FIT TO DETAIL EXTRACTED FROM OS DIGITAL DATA

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LANDSCAPE AND MAINTENANCE SPECIFICATION

GENERAL TREATMENT OF PLANTING AREAS

Topsoil (To Comply with British Standard BS8151:1 Specification for Topsoil)

2. GROUND CONDITIONS

3. PLANT AND PLANTING SPECIFICATION

Plant Stock

Plant Handling

Water

Ornamental shrub planting

Native shrub planting

New formal hedges

New single or mixed native hedgerow

Native tree / shrub planting

Water

Grass Seeding

Native tree / shrub planting

Water

Grass Maintenance

Water

Grass Maintenance

Water

Grass Maintenance

Water

Grass Maintenance

Water

Grass Maintenance

Water

Grass Maintenance

Water

(Trees)	Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
1		Acer	Acer campestre	Heavy Standard 5 bks; RB	Clear Stem minimum 200cm	35-425cm	12-14cm
2		Aca Fc	Acer campestre Ficus	Heavy Standard 5 bks; RB	Clear Stem minimum 200cm	35-425cm	12-14cm
9		Ace palmaria	Acer palmatum "Olmsted"	Heavy Standard 5 bks; RB	Clear Stem min 200cm	35-425cm	12-14cm
10		AL GLU	Alnus glutinosa	Heavy Standard 5 bks; RB	Clear Stem min 200cm	35-425cm	12-14cm
11		Alm	Ammanniac lamackii	Heavy Standard 5 bks; RB	Clear Stem 175-200cm	35-425cm	12-14cm
12		Betula pendula	Betula pendula	Extra Heavy Standard 3; RB	Clear Stem min 200cm	42-600cm	18-20cm
13		B pub	Betula pubescens	Heavy Standard 5 bks; RB	Clear Stem 175-200cm	35-425cm	12-14cm
14		C de F	Carpinus betulus "Frans Fontaine"	Heavy Standard 5 bks; RB	Clear Stem 175-200cm	35-425cm	12-14cm
15		Pruus padu	Prunus padus	Heavy Standard 5 bks; RB	Clear Stem 175-200cm	35-425cm	12-14cm
4		PRUPAD	Prunus padus	Extra Heavy Standard 3; RB	Clear Stem min 200cm	450-500cm	18-20cm
16		Quercus pedunculata	Quercus pedunculata	Heavy Standard 5 bks; RB	Clear Stem 175-200cm	35-425cm	12-14cm
11		Q	Quercus robur	Heavy Standard 5 bks; RB	Clear Stem 175-200cm	35-425cm	12-14cm
11		Quc ROB	Quercus robur	Heavy Standard 5 bks; RB	Clear Stem 175-200cm	35-425cm	12-14cm
1		S	Salix caprea	Heavy Standard 5 bks; RB	Clear Stem 175-200cm	35-425cm	12-14cm
Total 118 =							

(Herbaceous)	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
24	ALC MOL	<i>Alchemilla mollis</i>	Full Pot. C	Cl	3im	2987m ²	
30	AST FAN	<i>Astilbe Fana</i>	Full Pot. C	Cl	4im	6.837m ²	
34	AST GAT	<i>Astilbe Gattine</i>	Full Pot. C	Cl	4im	3.349m ²	
61	BER COR	<i>Bergenia cordifolia</i>	Full Pot. C	Cl	5im	11.306m ²	
13	ECM MAG	<i>Echinacea purpurea</i> , 'Magnus'	Full Pot. C	Cl	4im	3.395m ²	
19	EUP RUS	<i>Euphorbia corollata</i> , 'Robusta'	Full Pot. C	Cl	4im	4.496m ²	
33	GER BLU	<i>Geranium 'Johnson's Blue'</i>	Full Pot. C	Cl	4im	7.950m ²	
61	GER ALB	<i>Geranium macrorrhizum</i> , 'Album'	Full Pot. C	Cl	4im	13.713m ²	
61	HEU RUS	<i>Heuchera 'Chocolate Ruffles'</i>	Full Pot. C	Cl	4im	4.439m ²	
5	HEU PEI	<i>Heuchera 'Key Lime Pie'</i>	Full Pot. C	Cl	4im	1.008m ²	
5	HEU ME	<i>Heuchera 'Formaldehyde'</i>	Full Pot. C	Cl	4im	2.444m ²	
24	HEU PUR	<i>Heuchera 'Microchrysa', 'Palace Purple'</i>	Full Pot. C	Cl	4im	5.384m ²	
15	RUD GOL	<i>Rudbeckia fulgida</i> , 'sulfurata', 'Goldschm'	Full Pot. C	Cl	4im	3.475m ²	
34	SA TRI	<i>Salvia officinalis</i> , 'Tirolos'	Full Pot. C	Cl	4im	5.938m ²	
							Total 99.126m ²

Hawthorn Hedgerow						
Number	Abbreviation	Species	Specification	Height	Density	Length
661-	C mon	<i>Crataegus monogyna</i>	1+1: Transplant - seed raised	B 60-80cm	0.3Cfr Double Staggered at 0.3m offset	99.0152m
Total						99.0152m

Native Shrub Mix							
Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Cont.
88 -	COR AVE	<i>Corylus avellana</i>	1+2 Transplant - seed raised; Branched; 3 brks;	B[60-80cm]		1Ctr	15%
225 -	CRA MON	<i>Crataegus monogyna</i>	1+1 Transplant - seed raised B	[60-80cm]		1Ctr	40%
97 -	L E QU	<i>Ilex aquifolium</i>	seedling w/ lateralis G	[60-80cm]	3L	1Ctr	15%
115 -	PRU SPI	<i>Prunus spinosa</i>	1+1 Transplant - seed raised; Branched 2 brks;	B[60-80cm]		1Ctr	20%
60 -	VIBOP	<i>Viburnum opulus</i>	1+2 Transplant - seed raised; Branched; 3 brks;	B[60-80cm]		1Ctr	10%
Total:	S76 -						

2

40

309.52m² WF/G20 Eco Species Rich
3096 g Germinat

74.21m² Abies
9600 g Cerni

0 10 20 30 40 50 60 70 80 90 100

Landscape Layout Key:

 Site Boundary

 Existing trees and hedgerows to be retained and protected during the works.

45.76m² AberSustan
1831 g Germinal

	Existing trees to be removed
	Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
	Proposed native tree planting, tree pit and double staking as detailed in the specification.
	Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.

	Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
	Proposed single/mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
	Front gardens to be turfed on 150mm topsoil.
	Public open space to be sown with Germinall Aberystwyth mix, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.

	Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m ² on 150mm topsoil.
	Native tree / shrub planting to be planted as 80-80cm whip planting at 1m centres, for additional wildlife habitat.
	Wildflower seeding. Germinal RE3 River Floodplain / Water Meadow (MGR Grassland), to the existing water course. To public open space to be sown at 5g/m ² .
	Wildflower seeding. Wp19 Pollinators Paradise, to the public open space to be sown at 2g/m ² .





- Landscape Layout Key:**
- Site Boundary
 - Existing trees and hedgerows to be retained and protected during the works.
 - Existing trees to be removed
 - Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
 - Proposed native tree planting, tree pit and double staking as detailed in the specification.
 - Small ornamental tree large shrub planting, tree pit and double staking as detailed in the specification.
 - Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
 - Proposed single/mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
 - Front gardens to be turfed on 150mm topsoil.
 - Public open space to be sown with Geminal AberSustain mix, or similar approved, to be sown at a rate of 40g/m² on 150mm topsoil.
 - Public open space to be sown with Geminal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m² on 150mm topsoil.
 - Native tree / shrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
 - Wildflower seeding, Geminal RE3 River Floodplain / Water Meadow (MG8 Grassland), to the existing water course, to public open space to be sown at 5g/m².
 - Wildflower seeding, WF 19 Pollinators Paradise, to the public open space to be sown at 2g/m².

Plant Schedule

Tree	Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
8 -	A ca	Acce campestre	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted		
12 -	ACEOLMA	Acce plantanoides 'Climax'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted		
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted		
15 -	AMEL	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted		
2 -	BET PEN	Betula pendula	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted		
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted		
7 -	be 'F	Cornus betulinus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted		
12 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted		
4 -	PRUPADA	Prunus padus	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted		
14 -	PRUPAAL	Prunus padus 'Aberliff'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted		
1 -	Q pae	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted		
3 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted		
3 -	S c	Salix caprea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted		
Total: 118 -								

Shrubs	Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
150 -	BER NAN	Berberis thunbergii	'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m ²	35.690m ²
32 -	BRA SUN	Brachyglottis	'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m ²	13.609m ²
7 -	CEA MOU	Ceanothus	'Blue Mound'	Branched: 5 brks: C	30-40cm	3L	3/m ²	2.248m ²
3 -	CEA REP	Ceanothus	thyrsiflorus repens	Bushy: 5 brks: C	30-40cm	3L	3/m ²	0.947m ²
1 -	CHO PEA	Choisya	'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m ²	1.574m ²
12 -	CHO SUN	Choisya	ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m ²	3.468m ²
4 -	CIS PIN	Cistus	'Silver Pin'	Bushy: 4 brks: C	20-30cm	3L	3/m ²	1.207m ²
4 -	COT ELE	Cotinus alba	'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m ²	1.015m ²
18 -	COT PUR	Cotinus coggygria	'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m ²	5.513m ²
6 -	ELA EBB	Elaeagnus	x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m ²	2.678m ²
8 -	ERI PIN	Erica carnea	'Springwood Pink'	Bushy: 4 brks: C	30-40cm	3L	3/m ²	23.785m ²
154 -	EUN WHI	Eunymia fortunei	'Emerald Queen'	Bushy: 7 brks: C	20-30cm	3L	3/m ²	12.111m ²
4 -	EUN QUE	Eunymia fortunei	'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	4/m ²	3.793m ²
4 -	FUC POP	Fuchsia	'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m ²	1.245m ²
9 -	GEN LYD	Genista	lydia	Bushy: 5 brks: C	30-40cm	3L	3/m ²	2.737m ²
10 -	HEB GLO	Hebe	'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m ²	26.601m ²
24 -	HEB GEM	Hebe	'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m ²	3.559m ²
62 -	HEB WIN	Hebe	'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m ²	18.862m ²
30 -	HEB RAK	Hebe rakaiensis		Bushy: 5 brks: C	30-40cm	3L	3/m ²	12.111m ²
19 -	HYD WAV	Hydrangea macrophylla	'Blue Wave'	Branched: 5 brks: C	40-60cm	3L	2/m ²	12.480m ²
13 -	HYD LIM	Hydrangea paniculata	'Little Lime'	Branched: 3 brks: C	30-40cm	3L	2/m ²	4.201m ²
53 -	HYD BLU	Hydrangea serrata	'Bluebird'	Branched: 5 brks: C	40-60cm	3L	2/m ²	23.244m ²
22 -	LAV HIO	Lavandula angustifolia	'Hidote'	Bushy: 5 brks: C	20-30cm	3L	3/m ²	5.005m ²
9 -	LON PIL	Lonicera pileata		Bushy: 6 brks: C	30-40cm	3L	3/m ²	2.762m ²
26 -	MAH APO	Mahonia aquifolium	'Apollo'	Branched: 2 brks: C	20-30cm	3L	4/m ²	6.128m ²
60 -	PHO ROB	Phodinus x Fraser	'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m ²	21.102m ²
6 -	PIE FLA	Pieris	'Forest Flame'	Bushy: 3 brks: C	30-40cm	3L	3/m ²	1.847m ²
14 -	POT ABB	Potentilla fruticosa	'Abbotswood'	Bushy: 4 brks: C	30-40cm	3L	3/m ²	4.231m ²
14 -	POT ELI	Potentilla fruticosa	'Elizabeth'	Bushy: 3 brks: C	30-40cm	3L	4/m ²	8.468m ²
8 -	PRU LUS	Prunus lusitana		Bushy: 4 brks: C	30-40cm	3L	2/m ²	3.326m ²
23 -	SAN CHA	Santolina chamaecyparissus		Bushy: 7 brks: C	20-30cm	3L	3/m ²	6.917m ²
3 -	SPI RUI	Spiraea japonica	'Rubell'	Bushy: 3 brks: C	30-40cm	3L	4/m ²	12.416m ²
10 -	SPI PIR	Spiraea japonica	'Little Princess'	Bushy: 7 brks: C	20-30cm	3L	3/m ²	2.970m ²
18 -	VIB DAV	Viburnum davidii		Bushy: 3 brks: C	20-30cm	3L	3/m ²	5.655m ²
16 -	VIB PIR	Viburnum tinus	'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m ²	7.065m ²
12 -	VIN MAJ	Vinca major		Several Shoots: 3 brks: C	30-40cm	3L	3/m ²	3.603m ²
Total: 1334 -								
								366.688m ²

Herbaceous							
Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
24	-	ALC MOL Alchemilla mollis	Full Pot: C	3L	3/m ²		7.298m ²
30	-	AST FAN Astilbe 'Fanal'	Full Pot: C	3L	4/m ²		8.537m ²
14	-	AST GRA Astilbe 'Granat'	Full Pot: C	3L	4/m ²		3.349m ²
61	-	BER COR Bergenia cordifolia	Full Pot: C	3L	5/m ²		11.305m ²
15	-	ECH MAG Echinacea purpurea 'Magnus'	Full Pot: C	3L	4/m ²		3.065m ²
24	-	EUP ROB Euphorbia amygdaloides robbiae	Full Pot: C	3L	5/m ²		4.466m ²
33	-	GER BLU Geranium 'Johnson's Blue'	Full Pot: C	3L	4/m ²		7.990m ²
61	-	GER ALB Geranium macrorrhizum 'Album'	Full Pot: C	3L	4/m ²		13.718m ²
32	-	HEU RUF Heuchera 'Chocolate Ruffles'	Full Pot: C	3L	4/m ²		7.430m ²
5	-	HEU PIE Heuchera 'Key Lime Pie'	Full Pot: C	3L	4/m ²		1.008m ²
16	-	HEU MAR Heuchera 'Marmalade'	Full Pot: C	3L	4/m ²		22.447m ²
24	-	HEU PUR Heuchera micrantha 'Palace Purple'	Full Pot: C	3L	4/m ²		5.394m ²
15	-	RUD GOL Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C	3L	4/m ²		3.475m ²
8	-	SAL TRI Salvia officinalis 'Tricolor'	Full Pot: C	3L	4/m ²		1.082m ²
Total: 440 -							Total: 99.126m ²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
5726 -	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks: C	20-40cm	2L	5/m	1134.1184m
Total: 1134.1184m							

Hawthorn Hedgerow

Number	Abbreviation	Species	Specification	Height	Density	Length
661 -	C mon	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	99.0152m
Total: 99.0152m						

Grass Areas

Area	Seed Mix Name	Seed Mix Supplier	Density	Weight
6846.2644m ²	AberSustain	Geminal	40g/m ²	27.385g
929.346m ²	RE3	Geminal	50g/m ²	464g
349.6102m ²	WF19 Pollinators Paradise	Geminal	2g/m ²	1700g
2726.5268m ²	WF620 Eco Species Rich Lawn	Geminal	10g/m ²	27273g
Total: 10951.7464m ²				

Native Shrub Mix

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
88 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	15%		83.069m ²
126 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	10%		221.5192m ²
88 -	ILE AQU	Ilex aquifolium	Leader with Lateral: C	40-60cm	3L	1Cr	15%	83.069m ²
115 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	20%		110.785m ²
60 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	10%		55.379m ²
Total: 553.798m ²								

Native Hedgerow Mix

Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution	Length
217 -	ACE CAM	Acce campestre	1+1: Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	15%	10.7158m
217 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	15%	32.1476m
646 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	45%	96.4426m
145 -	ILE AQU	Ilex aquifolium	1+1: Seedlings: CE	40-60cm	0.3Cr Double Staggered at 0.3m offset	10%	21.4316m
289 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	20%	42.8633m
74 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: B	60-80cm	0.3Cr Double Staggered at 0.3m offset	5%	10.7158m
Total: 1445 -							

DO NOT SCALE

ALL COORDINATES RELATIVE TO LOCAL GRID LOCATED TO OS NG 85 BEST FIT TO DETAIL EXTRACTED FROM OS DIGITAL DATA

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LANDSCAPE AND MAINTENANCE SPECIFICATION

All operations to comply with appropriate British Standards unless otherwise stated on drawings or in the specification.

GENERAL TREATMENT OF PLANTING AREAS

Grounds to be planted with appropriate British Standards unless otherwise stated on drawings or in the specification.

For work over a raised area: Refer to BS 5577: Trees in relation to design, demolition & construction - Part 1: Trees in relation to design, demolition & construction - Part 2: Trees in relation to design, demolition & construction - Part 3: Trees in relation to design, demolition & construction - Part 4: Trees in relation to design, demolition & construction - Part 5: Trees in relation to design, demolition & construction - Part 6: Trees in relation to design, demolition & construction - Part 7: Trees in relation to design, demolition & construction - Part 8: Trees in relation to design, demolition & construction - Part 9: Trees in relation to design, demolition & construction - Part 10: Trees in relation to design, demolition & construction - Part 11: Trees in relation to design, demolition & construction - Part 12: Trees in relation to design, demolition & construction - Part 13: Trees in relation to design, demolition & construction - Part 14: Trees in relation to design, demolition & construction - 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