Landscape Management Plan

Tan Y Bont, Main Road, Rhosrobin, Wrexham

Ref: 1421.21

February 2021

(See revision dates below)

Rev	Date	Details
A	25th August 2021	Updates based on Site Layout Rev K
B	3rd September 2021	Minor amendments
C	29th September 2021	Minor amendments
D	21st October 2021	Minor amendments to Planting Plans based on Tree Officer's comments
E	1st March 2022	Updates based on Site Layout Rev O
F	6th March 2022	Updates based on Site Layout Rev Q
G	24th May 2023	Updates based on Site Layout Rev Q1
H	9th August 2023	Updates based on Site Layout Rev T
I	21st September 2023	Updates based on Site Layout Rev U
J	5th April 2024	Updates based on Site Layout Rev W
K	17th April 2024	Minor amendments
L	19th July 2024	Updates based on Site Layout Rev X

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P.1421.21

Landscape Management Plan

Of

Tan Y Bont, Main Road, Rhosrobin, Wrexham

For

Castle Green Homes

17th February 2021

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Appendix 1 - P.1421.21.04 Revision M Planting Plan (9 sheets)

Appendix 2 - P.1421.21.05 Revision K Landscape Management Areas Plan

1.0 Introduction

1.1. Ascerta has been instructed by Castle Green Homes to carry out a Landscape Management Plan for land at Tan Y Bont, Main Road, Rhosrobin, Wrexham (hereafter referred to as the site). Our client seeks planning consent to develop the site for the erection of 209 residential units with associated access roads and an area of public open space.

1.2. The detailed soft landscaping scheme is shown on the following drawing: *P.1421.21.04 Revision M Planting Plan (9 sheets).*

1.3. 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 ecological reports are included within the management prescriptions.

2.0 Existing Site Description

2.1. The site is located the east of the Rhosddu Industrial Estate, to the North of Wrexham and measures 15.78 hectares, comprising predominantly grazed fields with small areas of woodland. Scattered trees and hedgerows are present along the boundaries with areas of amenity grassland abutted by mature hedgerows. This management plan also includes a public right of way which runs from the southern boundary to the northern boundary, which will be kept and enhanced within this proposal (see picture below).



Figure 1 Satellite image showing the proposed development site and public right of way (dashed green lines)

3.0 Proposed Site Description

3.1. The residential development proposes the construction of 189 houses with rear gardens. The development includes inner roads, tree planting, ornamental planting beds, public open space and an existing public right of way enhancement.

3.2. One new access road will be created from B5425 New Road which will require the removal of existing vegetation. The proposal will also require the removal of a trees and hedgerows within the site to accommodate the development proposal (See *P.1421.21 Ascerta Arboricultural Impact Assessment, Tan Y Bont, Main Road, Rhosrobin, Wrexham*)

3.3. Replacement tree and shrub planting including species from the RHS *Perfect for Pollinators* plant lists, will be carried to ensure there is no net loss of tree cover within the site. The landscaping design is shown on *P.1421.21.04 Revision M Planting Plan (9 sheets)* which provides:

- Proposed ornamental planting (Total area: 908m^2)
- Proposed herbaceous planting (Total area: 45m^2)
- Proposed tree planting (Total: 244 trees)
- Proposed mixed native hedgerow (Total length: 10.5 lin.m)
- Proposed formal hedging (Total length: 934 lin.m)
- Front gardens turfed (Total area: 5392m^2)
- Wildflower seeding Germinal AberSustain mix (Total: 2823m^2)
- Wildflower overseeding Germinal AberSustain mix (Total: 69768m^2)
- Wildflower seeding, Germinal WFG20 Eco Species Rich Lawn (Total: 1816m^2)
- Mixed landscape buffer as whip planting, for additional wildlife habitat. (Total: 175m2)
- Mixed native bulb planting (Total: 117m2)
- Climbers (Total: 20 no.)

The proposed native hedge includes Hazel, Holly, Hawthorn, Blackthorn and Dog rose to ensure no net loss of biodiversity as a result of the tree removal to accommodate the development. These areas will ensure the protection of the ecological features on site.

The proposed mixed landscape buffer will include Hazel, Hawthorn, Holly, Bird Cherry, Blackthorn, Field Rose, Dog Rose, Elder and Guelder Rose.

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

4.0 Landscape Design Objectives

4.1. The overall design objectives are as follows:

1. Carry out tree, formal hedge and ornamental shrub planting around the housing plots to soften the development and provide an attractive setting;

2. To include the recommendations of the ecological report by enhancing the existing and proposed site features and increasing the biodiversity of the area;

3. To carry out native planting and tree planting to provide screening where required and increase tree cover by carrying out additional native planting;

4. Installation of bat and bird boxes is proposed to mitigate for potential loss of habitat following tree removal;

5. Habitat enhancement to include planting of native species and a variety of ornamental species to attract pollinators at suitable locations; and

6. To retain natural buffers and other site features and enhance them by good management and species diversification.

7. New native hedgerows, grassland, and scrub areas to serve benefit of any amphibians.

5.0 Management Proposals

The Management Plan has been divided into management areas, each with its own management objective (refer to *P.1421.21.05 Revision K Landscape Management Areas Plan*). This 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 drawings.

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 existing trees/woodland and new native trees / shrubs are maintained and replacement planting is carried out when necessary to ensure good species diversification. Long term management of existing trees or woodland may include some felling of mature trees at the end of their life span to maintain healthy development of the woodland. Any felled trees are to be replaced with a suitable species to retain the character of existing trees/woodland.



Figure 2 Exert from P.1421.21.05 Revision K Landscape Management Areas Plan

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.

5.1. Area 1: Residential Development.

Management Objective: 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.

5.1.1 Area 1: Residential Development - **Maintenance Phase (Years 1-2)**

Feature	Description and specification
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.1421.21 Ascerta Arboricultural Impact Assessment, Tan Y Bont, Main Road, Rhosrobin, Wrexham.*
Existing Hedgerow	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required.
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 mixed landscape buffer planting:	Weed control by hand to ensure planting area is weed free. Check stakes and 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 guards are in place and replace where necessary. Replace dead / dying stock in winter. Prune if required, to encourage good establishment and water when necessary.
Native mixed 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 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.
Amenity grass:	Mow every two weeks during the growing season to a height of 30mm. Apply fertiliser annually and spot treat pernicious weeds.
Wildflower and informal grass areas	Cut twice a year, once during the late spring and once after the flowering season (September / October) to maintain a sward of approximately 40-50mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

Paths	Existing grass path with stone edgings. Check surface is level and there are no trip hazards. Remove encroaching moss/ grass annually to keep edging exposed.
Hard surfacing:	Check annually and repair any defects.
Fencing / Railings	Check annually, repair any defects and replace when necessary.

5.1.2 Area 1: Residential Development – **Establishment Phase (Years 3-5)**

Feature	Description and specification
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.
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.
New mixed landscape buffer 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. Check stakes/ties and guards are in place and adjust 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 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 0.6m.
Native mixed 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 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 1.2m.
Ornamental shrub 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.
Amenity grass:	Mow every two weeks during the growing season to a height of 30mm. Apply fertiliser annually and spot treat pernicious weeds.
Wildflower and informal grass areas	Cut twice a year, once during the late spring and one after the flowering season (September / October) to maintain a sward of approximately 40-50mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

Paths	Existing grass path with stone edgings. Check surface is level and there are no trip hazards. Annually remove encroaching moss/ grass to keep edging exposed.
Hard surfacing:	Check annually and repair any defects.
Fencing / Railings	Check annually, repair any defects and replace when necessary.

5.1.3 Area 1: Residential Development – **Maturing Phase (Years 6-25)**

Feature	Description and specification
Existing trees to be retained:	Re-inspect as advised in Establishment Phase (Years 3-5) 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.
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. Remove stakes and ties where necessary and adjust where necessary. 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 mixed landscape buffer planting:	Year 10 - Formative pruning of established trees to remove crossing/rubbing branches and any other defects. Removal of competing leaders if considered appropriate. Thin poorer quality suppressed trees where deemed necessary to encourage better growth of nearby trees. Remove stakes and ties where necessary and adjust where necessary. 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 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 0.6m.
Native mixed 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 1.2m.
Ornamental shrub 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.
Amenity grass:	Mow every two weeks during the growing season to a height of 30mm. Apply fertiliser annually and spot treat pernicious weeds.

Wildflower and informal grass areas	Cut twice a year, once during the late spring and one after the flowering season (September / October) to maintain a sward of approximately 40-50mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
Paths	Existing grass path with stone edgings. Check surface is level and there are no trip hazards. Annually remove encroaching moss/ grass to keep edging exposed.
Hard surfacing:	Check annually and repair any defects.
Fencing / Railings	Check annually, repair any defects and replace when necessary.

5.2. Area 2: Public Open Space

Management Objective: 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.

5.2.1 Area 2: Public Open Space - **Maintenance Phase (Years 1-2)**

Feature	Description and specification
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.1421.21 Ascerta Arboricultural Impact Assessment, Tan Y Bont, Main Road, Rhosrobin, Wrexham.*
Existing Hedgerow	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required.
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 mixed landscape buffer planting:	Weed control by hand to ensure planting area is weed free. Check stakes and guards are in place and replace where necessary. Replace dead / dying stock in winter.
Native Hedgerow planting	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required. To be maintained at 1.2 metre high.
Wildflower and informal grass areas	Cut twice a year, once during the late spring and one after the flowering season (September / October) to maintain a sward of approximately 40-50mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
Bulb areas in grass:	Bulbs areas to be left uncut during late winter/early spring when bulbs are growing/flowering and for a period 6-8 weeks after flowering to allow bulbs to regain nutrients, after which a normal mowing regime can resume.
Paths	Existing grass path with stone edgings. Check surface is level and there are no trip hazards. Annually remove encroaching moss/ grass to keep edging exposed.
Fencing / Railings	Check annually, repair any defects and replace when necessary.

5.2.2 Area 2: Public Open Space - **Establishment Phase (Years 3-5)**

Feature	Description and specification
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.
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.
New mixed landscape buffer 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. Check stakes/ties and guards are in place and adjust where necessary. Replace dead / dying stock in winter.
Native Hedgerow planting	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required. To be maintained at 1.2 metre high.
Wildflower and informal grass areas	Cut twice a year, once during the late spring and one after the flowering season (September / October) to maintain a sward of approximately 40-50mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
Bulb areas in grass:	Bulbs areas to be left uncut during late winter/early spring when bulbs are growing/flowering and for a period 6-8 weeks after flowering to allow bulbs to regain nutrients, after which a normal mowing regime can resume.
Paths	Existing grass path with stone edgings. Check surface is level and there are no trip hazards. Annually remove encroaching moss/ grass to keep edging exposed.
Fencing / Railings	Check annually, repair any defects and replace when necessary.

5.2.3 Area 2: Public Open Space – **Maturing Phase (Years 6-25)**

Feature	Description and specification
Existing trees to be retained:	Re-inspect as advised in Establishment Phase (Years 3-5) 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.
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. Remove stakes and ties where necessary and adjust where necessary. 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 mixed landscape buffer planting:	Year 10 - Formative pruning of established trees to remove crossing/rubbing branches and any other defects. Removal of competing leaders if considered appropriate. Thin poorer quality suppressed trees where deemed necessary to encourage better growth of nearby trees. Remove stakes and ties where necessary and adjust where necessary. 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.
Native Hedgerow planting	Prune in January / February on a 3-year rotational basis (1/3 per year) and carry out new planting if required. To be maintained at 1.2 metre high.
Wildflower and informal grass areas	Cut twice a year, once during the late spring and one after the flowering season (September / October) to maintain a sward of approximately 40-50mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.
Bulb areas in grass:	Bulbs areas to be left uncut during late winter/early spring when bulbs are growing/flowering and for a period 6-8 weeks after flowering to allow bulbs to regain nutrients, after which a normal mowing regime can resume.
Paths	Existing grass path with stone edgings. Check surface is level and there are no trip hazards. Annually remove encroaching moss/ grass to keep edging exposed.
Fencing / Railings	Check annually, repair any defects and replace when necessary.

5.3. Area 3: Play Area

Management Objective: To provide a high-quality area and ensure that the equipment is safe, the gates and fence are operational to prevent dogs or other possible hazards accessing the area.
To ensure fortnightly playground inspections including a quarterly inspection and an annual inspection carried out by a suitable qualified RPII (Register of Play Inspectors International) operator inspector. All maintenance shall be in accordance with BS EN1176 and BS EN1177.

5.3.1. Area 3: Play Area - **Maintenance Phase (Years 1-2)**

Feature	Description and specification
Fencing:	Check weekly and repair any defects.
Hard surfacing:	Check 2 times a year and repair any defects.
Play equipment:	Check every month or in accordance with manufacturers recommendations, for the operation and stability of the equipment. Repair any damage or replace if required.
Any play equipment with moving parts:	Check weekly, or in accordance with manufacturers recommendations, for any damage and repair or replace if required.
Self-closing gate mechanism:	Check weekly or in accordance with manufacturers recommendations, for any damage and repair or replace if required.
Litter:	Removal weekly of all litter and debris.

5.3.2. Area 3: Play Area – **Establishment Phase (Years 3-5)**

Feature	Description and specification
Fencing:	Check weekly and repair any defects.
Hard surfacing:	Check 2 times a year and repair any defects.
Play equipment:	Check every month or in accordance with manufacturers recommendations, for the operation and stability of the equipment. Repair any damage or replace if required.
Any play equipment with moving parts:	Check weekly, or in accordance with manufacturers recommendations, for any damage and repair or replace if required.
Self-closing gate mechanism:	Check weekly or in accordance with manufacturers recommendations, for any damage and repair or replace if required.
Litter:	Removal weekly of all litter and debris.

5.3.3. Area 3: Play Area – ***Maturing Phase (Years 6-25)***

Feature	Description and specification
Fencing:	Check weekly and repair any defects.
Hard surfacing:	Check 2 times a year and repair any defects.
Play equipment:	Check every month or in accordance with manufacturers recommendations, for the operation and stability of the equipment. Repair any damage or replace if required.
Any play equipment with moving parts:	Check weekly, or in accordance with manufacturers recommendations, for any damage and repair or replace if required.
Self-closing gate mechanism:	Check weekly or in accordance with manufacturers recommendations, for any damage and repair or replace if required.
Litter:	Removal weekly of all litter and debris.

6.0 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 / OPERATION	J	F	M	A	M	J	J	A	S	O	N	D
Management of existing trees/ woodland												
Inspect for hazards and deteriorations in health and/ or structural integrity								X				
Pruning	In accordance with recommendation made during inspection / identification of work											
Other works	In accordance with recommendation made during inspection / identification of work											
New tree and shrub 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 if necessary and hand weed around base	X				X				X			
Top up mulch											X	
Carry out replacement of dead or dying stock											X	
Management of amenity grass												
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												
Mow twice a year to a height of 40-50mm				X					X			
Spot treat pernicious weeds					X			X				
Apply fertiliser			X									
Ornamental 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 native hedgerow												
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 guards	X				X				X			
Carry out planting to fill any gaps in hedgerow											X	
Replace dead or dying plant stock											X	
Management of other site features												

Check and repair fencing, gates, 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	X											

7.0 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 / OPERATION	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Management of existing woodland and new trees/shrubs																				
Monitor existing woodland and new native tree/ shrub planting	**Annually if appropriate**				x					x					x					x
Remove stakes / ties as required	x	x	x	x	x															
Crown lift / thin existing trees					x					x					x					x
Manage native trees and shrub areas	x				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
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 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 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
Hard Landscaping																				
Monitor and repair fencing / surfacing and street furniture	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

8.0 Summary

This report described the proposed development and the landscape design objectives.

Set out detailed maintenance objectives for:

- Public open space to make certain the existing vegetation and new planting are managed to retain and enhance the character and diversity of the area. Ensure there is good protection of the existing habitats, specifically the ditch. 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.

- Play area to provide a high-quality environments area and ensure that the equipment is safe, and gates and fencing are operational to prevent dogs or other possible hazards accessing the area. Ensure fortnightly playground inspections.

- 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 (Years 1-5) and a Long-Term Maintenance Schedule (Years 6-25).

Appendix 1

DO NOT SCALE

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

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Planting Plan key:

- Contract Boundary
- Non Material Amendments
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees and hedgerow to be removed.
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed climbers with climber wires on 400mm depth of topsoil with 75mm bark mulch.
- Proposed native tree planting, tree pit and stake as detailed in the specification.
- Small ornamental tree/ large shrub planting, tree pit and stake as detailed in the specification.
- Proposed mixed native hedgerow planted in a double staggered row at 0.4m centres and 0.3m offset. Bare root transplants with 60cm rabbit guards.
- Proposed single species formal hedges planted in single row at 3m spacings. Container stock.
- 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.
- Native tree / shrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Grassland to public open space to be retained and overseeded with Germinal AberSustain mix, or similar approved, to be sown at a rate of 20g/m2.
- 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.
- Wildflower seeding. WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2 planted into 200mm of a mix of topsoil and subsoil (50:50).
- Mixed native bulb planting

REV	DESCRIPTION	DATE
A	Updated to layout "...rev K"	25/08/21
B	Removal of proposed woodland mix	28/09/21
C	Amendments based on Tree Officer's comments	21/10/21
D	Updated to layout "...rev O"	01/03/22
E	Updated to layout "...rev Q"	06/07/22
F	Updated to layout "...rev T"	11/01/23
G	Updated to layout "...rev Q1"	24/05/23
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K	Updated to layout "...rev W"	05/04/24
L	Minor amendments	17/04/24
M	Updated Site Layout "...rev X"	19/07/24

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PROJECT: Tan Y Bont, Main Road, Rhosrobin, Wrexham

DRAWING TITLE: Planting Plan (Sheet 1 of 9)

SCALE:		DRAWING No:	REV:
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DRAWING TITLE: Planting Plan (Sheet 2 of 9)

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5 No. COR AVE
5 No. CRA MON
3 No. ILE AQU
2 No. PRU PAD
5 No. ROS CAN
5 No. ROS RPI
3 No. ROS CAN
2 No. SAM NIG
3 No. VIB OPU

3 No. BET PEN

3 No. PRU AVI

3 No. QUE PET

3 No. TIL EUR

Wat's Dyke

N

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DRAWING TITLE:
Planting Plan (Sheet 3 of 9)

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PROJECT:
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DRAWING TITLE:
Planting Plan (Sheet 4 of 9)

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DRAWING TITLE: Planting Plan (Sheet 5 of 9)

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DRAWING TITLE: Planting Plan (Sheet 6 of 9)

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DRAWING TITLE: Planting Plan (Sheet 7 of 9)

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3 No. CAR BET
3 No. PRU AVI
3 No. PIN NIG
3 No. PIN SYL
3 No. CAR BET
84.4m
East View
Western View
South View
Pandy
Blue Bell Estate
TCP
Posts
Posts
1
8
1
9
3
9
9
1
14

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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

Ensure that planting areas are protected from consolidation by heavy construction plant.

For work near a retained tree: Refer to BS 5837 *Trees in relation to design, demolition & construction - Recommendations*- Section 9 (Appendix C).

Damage to Plants to be Retained: If a plant is to be retained is damaged, the plant is to be repaired or replaced by the contractor at their own expense. "Damaged" means:

- The destruction of a plant the breaking of branches or roots
- The debarking of trunks or limbs
- The contamination of root zone soil or plants from drift sprays, dust or contaminated storm water
- The damage by the placement of fill or building materials within the canopy perimeter or otherwise.

1) GROUND PREPARATION AND SOIL SPECIFICATION

Subsoil:
Before receiving topsoil, subsoil shall be loosened using appropriate equipment to a depth of 300mm. This shall be done when the subsoil is dry so as to encourage soil shattering. All stones and other objects larger than 50mm shall be removed from the prepared surface. The loosened subsoil shall be roughly levelled so that an even depth of topsoil can be achieved.
Topsoil (To Comply with British Standard 3882:2015 - Specification for Topsoil):
Imported topsoil shall be Multipurpose Grade as described in BS 3882:2015 and suitable for sustaining plant life. Stockpiling of soil shall be avoided whenever possible to minimise loss of physical quality, diffusion of oxygen and biological activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water run-off into a watercourse, not exceeding 1.5 metres high.
The site of the stockpile will be prepared in advance by grading, removing rubbish and ensuring no fuel or chemicals were previously stored in area.
Topsoil shall be lightly consolidated in layers not exceeding 150mm using track laying machinery.
Soil shall not be handled in inappropriate conditions of weather and soil moisture i.e.
During or shortly after heavy precipitation
When soil is in a waterlogged condition
When the ground is frozen or covered by snow
When there are pools of water on the grounds surface.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm to rear gardens
400mm beneath new shrub areas.
Finished levels, after settlement, shall be as follows:
25mm above adjacent paving from new grassed areas and non-mulched shrub beds
75mm below adjacent paving and grass for mulched planting beds.
150mm below damp proof courses.

2) GROUND CONDITIONING
40 litres of compost to be incorporated into the top 200mm of each square metre of topsoil for all ornamental shrub beds.

3) PLANT AND PLANTING SPECIFICATION
All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard Specifications and Code of Practice:
BS 8545:2014 'Trees: from nursery to independence in the landscape
BS 3936: Part 1 1992 Nursery stock (Specification for trees and shrubs)
BS 3936: Part 4 1984 Nursery stock (Specification for forest trees)
BS 3936: Part 9 1987 Nursery stock (Specification for bulbs, corms and tubers)
BS 3936: Part 10 1990 Nursery stock (Specification for ground cover plants)
BS 4428: 1989 Recommendations for general landscaping operations.
BS 4043: 1989 Recommendations for transplanting root-balled trees. (withdrawn)
The Code of Practice for Plant Handling 1985. (Horticultural Trades Association).

Plant Stock:
Plant stock to be supplied in accordance with the size and description specified ion the plant schedule and position indicated on the most current revision of the planting plan.

Plant stock shall be healthy, vigorous, free from pests and diseases and suitably hardened off for the proposed situation of planting and lifted at a time in accordance with good nursery practice. Stock shall have a well-formed fibrous root system and be free from perennial weeds. The form of trees shall be in accordance with BS 3936: Part 1:1992, Section 7, *Form of Trees*.

Plant Handling:
All plant materials shall be lifted, bundled, labelled, packaged, transported, temporarily stored and planted in accordance with the procedures and methods illustrated in the publication, "*Plant Handling*" (Horticultural; Trades Association) and relevant sections of BS 4043: 1989 *Transplanting Root-Balled Trees*.

Standard Tree Planting:
Trees to be pit planted following supplier recommendations. Minimum pit size: Standard tree 900 x 900x 750mm / Heavy Standard and Extra Heavy Standard tree 1000 x 1000 x 900mm.
Pits to be prepared to base and sides of pit to be further scarified.
Standard trees to be double staked using two stakes (75mm dia.), driven into ground 300mm below bottom of pit. Base of pit to be filled with 200mm of 3:1 mix of approved topsoil / compost.
Trees to be centrally located and stem placed in an upright position. Pit to be backfilled with a 3:1 mix of an approved topsoil / compost. Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be saw leave 600mm above soil level.
Water in same day with 52 litres per tree.
All works shall be carried out to the minimum standard according to BS 3936: 1992 Part 1 Nursery Stock. Specification for Trees and Shrubs. BS 4043: 1989 Recommendations for transplanting root-balled trees.

Staking:
Stake all standard trees with double short stakes, feathered trees with low single stake. Stakes to be round timber with chamfered tops. Position stake close to tree on windward side and drive vertically at least 400mm into bottom of pit before planting. Backfilling: consolidate material around stake. Height of stakes: cut to approximately one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

Mulch:
All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Mulch to be free from fines, weeds, disease and contaminants.

Ornamental shrub planting:
To be set out carefully and evenly over indicated areas. Remove plants from pots and plastic containers, plant and water in thoroughly. Shrubs shall be individually pit planted in prepared
pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native tree / shrub planting
Bare root stock shall be planted between November and March/April. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Undertake formative pruning if necessary.

New formal hedges - Single row
Bare root stock shall be planted between November and March/April. Consistent in species, cultivar and clone to ensure a uniform hedge.
To be planted in a previous prepared planting bed 0.8 metre wide. Planted to be centrally in a single row, at 3 per linear metre spacings. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems.
Prune back to a height of 0.6metres.

New mixed native hedges - Double staggered row
Bare root stock shall be planted between November and March/April. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 400mm between plants and 300mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems.
Prune back to a height of 1.2metres.

Turfed Areas:
To be specified and laid in accordance with BS. 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of 25% perennial ryegrass, 55% fescues and 20% smooth stalked meadow grass. This mix is easy to maintain and will recover well from general wear.
Turf to be laid in suitable weather conditions on a prepared bed with no weeds and a suitable slow release fertiliser applied to bed prior to laying. Turf to be watered regularly until it is well established.

Rear gardens:
Subsoil to be prepared to a depth of 300mm as per ground preparation and soil specification.
Topsoil to be supplied as per ground preparation and soil specification to a depth of 300mm, after gentle compaction and to be left bare in rear gardens.

Grass Seeding:
Seed mix shall be Germinal Grade A19 mix, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Levels to be graded to form finished levels as indicated in section, 'Topsoil'.
Roll, fertilise at 50gms/sq m, 10-14 days prior to seeding, sow at rate of 5g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

Overseeding:
Seed mix shall be Germinal AberSustain mix, or similar approved. Sowing to be taken between March and October.
Existing grassland shall be mown to approx 25mm. Scarify to break up and remove the layer of dead matted grass. Sow at rate of 20g/m2.
First cut to be undertaken when grass reaches 50mm.

Grass Seeding:
Seed mix shall be Germinal AberSustain mix, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Levels to be graded to form finished levels as indicated in section, 'Topsoil'.
Roll, fertilise at 50gms/sq m, 10-14 days prior to seeding, sow at rate of 40g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

Wildflower Seeding:
Germinal WFG20 Eco Species Rich Lawn, or similar approved. Sowing to be taken between March and October.
The topsoil mixed with subsoil (50:50) shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 6 weeks after sowing or when reaches 70-100mm.

Germinal WF19 Pollinators Paradise, or similar approved. Sowing to be taken between March and October.
The topsoil mixed with subsoil (50:50) shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 6 weeks after sowing or when reaches 70-100mm.

Bulbs Planting:
Bulb planting prior to grass seeding. Scatter the bulbs as plan, to an average density to create naturalistic planting. With a bulb planter or trowel plant the bulbs in an upright position, where they fall, to a depth of 3 times the size of the bulb. Cover with soil and firm gently.
Bulb planting after turfed installed. Dig planting holes through turf to three times the depth of the bulb. Plant bulbs in an upright position and backfill with topsoil and turf plug previously removed.

Weeding:
A plant that roots directly from its base and has shallow roots is to be removed by hand, by removing the main root system.
A weed that grows from a clumped, fibrous root system is to be removed using the crowning method, by cutting the roots from the crown of the weed.
A large weed infestation is to be removed by spraying an approved chemical directly onto the target infestation.
A plant being a tree or a vine is to be removed using the cut and paint method, by cutting the base of the stem close to the ground and immediately applying herbicide to the cut.

4) MAINTENANCE AND MANAGEMENT

Plant stock and soft landscaped areas shall be maintained for a period of five years via the developers' agent or appointed Management Company during which time the following operations shall be carried out:

Regular visits:
Monthly maintenance visits to include the following operations:

- Hand weed planting beds
- Remove litter
- Sweep mulch spillage
- Re-firming plant stock to ensure the new planting is all planting to upright positions.
- Adjust stakes and ties as necessary
- Prune plant stock as required to encourage good form
- Check all plant stock and report signs of pests, disease, death and damage

Mulch:
Top up mulch levels (using matching material) surrounding trees and within beds to 75mm at the end of the maintenance period.

Watering:
Plant stock to receive the following quantities of water:
Semi-mature trees: 75 litres each month between April and September
Heavy Standard trees: 35 litres each month between April and September
Shrubs and transplants: 5 litres/plant on three occasions throughout growing season.
Watering to be undertaken during the first 24 months as needed to maintain plant health.

Bulb areas in grass:
Bulbs areas to be left uncut during late winter/early spring when bulbs are growing/flowering and for a period 6-8 weeks after flowering to allow bulbs to regain nutrients, after which a normal mowing regime can resume.

Grass Maintenance:
Grass shall be cut throughout the growing season to maintain a sward of approximately 38mm. Shall be edged, watered as necessary and clippings removed.

Wildflower Maintenance:
WFG20 Eco Species Rich Lawn Maintenance
First Cut: Mid September - 1st October. Cutting height approximately 70mm.
Thereafter: shall be cut 1 time a year mid-August to early October to maintain a sward of approximately 70mm.
The arisings are to be collected and removed just after the cut to prevent nutrient build up.

Germinal WF19 Pollinators Paradise Maintenance
First Cut: Mid September - 1st October. Cutting height approximately 70mm.
Thereafter: shall be cut 1 time a year from early September to maintain a sward of approximately 70mm.
The arisings are to be collected and removed just after the cut to prevent nutrient build up.

New tree/shrub planting:
Weed control by hand to ensure planting area is weed free. Check stakes and guards are in place and replace where necessary. Prune, thin and remove suckers, seedlings, dead, damaged, or diseased branches annually between October and January to avoid the bird nesting season. Replace dead / dying stock in winter.

Plant replacements:
All dead, dying and vandalised plant stock shall be replaced, at the landscape contractor's expense, at the end of each growing season throughout the maintenance period.

Plant Schedule

Trees

Number	Abbreviation	Species	Specification	Height	Girth
3 -	ACE CAM	Acer campestre	Selected Standard: 4 brks: 2x: RB: Clear Stem min. 200cm	300-350cm	10-12cm
29 -	ACE ELS	Acer campestre 'Elsrijk'	Selected Standard: 4 brks: 2x: RB: Clear Stem min. 200cm	300-350cm	10-12cm
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm
16 -	AME BAL	Amelanchier 'Ballerina'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm
18 -	BET PEN	Betula pendula	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
2 -	BETPENA	Betula pendula	Extra Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	400-450cm	14-16cm
5 -	BET JAC	Betula utilis jacquemontii	Selected Standard: 5 brks: 2x: B: Clear Stem 175-200cm	300-350cm	10-12cm
14 -	CAR BET	Carpinus betulus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
2 -	CRA PRU	Crataegus x prunifolia	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm
9 -	FAG SYL	Fagus sylvatica	Large Feathered: 7 brks: 3x: RB	350-425cm	12-14cm
12 -	LIQ STY	Liquidambar styraciflua	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm
6 -	PIN NIG	Pinus nigra	Leader with Laterals: 5x: RB: Clear Stem 150-175cm	350-400cm	
9 -	PIN SYL	Pinus sylvestris	Leader with Laterals: Feathered to base: 5x: RB	350-400cm	
33 -	PRU GOO	Prunus 'Snow Goose'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm
9 -	PRU AVI	Prunus avium	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
2 -	PRUAV	Prunus avium	Extra Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	400-450cm	14-16cm
4 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
13 -	QUE PET	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
8 -	QUE ROB	Quercus robur	Extra Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	400-450cm	14-16cm
10 -	SOR ARI	Sorbus aria	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
9 -	SOR STR	Sorbus aucuparia 'Streetwise'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm
28 -	TIL EUR	Tilia x europaea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm
Total :244 -					

Formal Hedge

Number	Abbreviation	Species	Specification	Density	Height	Length
2851 -	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks: C	3/m	30-40cm	934.3561m
Total :2851 -						Total :934.3561m

Ornamental Shrubs

Number	Abbreviation	Species	Pot Size	Specification	Height	Density	Area
480 -	BER NAN	Berberis buxifolia 'Nana'	3L	Bushy: 4 brks: C	20-30cm	7/m²	66.4817m²
245 -	CEA REP	Ceanothus thyrsiflorus repens	3L	Bushy: 5 brks: C		6/m²	39.6907m²
356 -	CHO PEA	Choisya 'Aztec Pearl'	3L	Bushy: 5 brks: C	30-40cm	6/m²	57.2343m²
225 -	COR ELE	Cornus alba 'Elegantissima'	3L	Branched: 4 brks: C	40-60cm	5/m²	44.3084m²
180 -	COR PUR	Corylus maxima 'Purpurea'	3L	Branched: 2 brks: C	40-60cm	5/m²	35.4014m²
424 -	ELA EBB	Elaeagnus x ebbingei	3L	Branched: 3 brks: C	30-40cm	5/m²	83.0473m²
314 -	ERI SPA	Erica carnea 'Pink Spangles'	3L	Bushy: C		8/m²	38.0103m²
212 -	EUO GOL	Euonymus fortunei 'Emerald 'n' Gold'	3L	Bushy: 7 brks: C	20-25cm	6/m²	34.0148m²
361 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	3L	Bushy: 7 brks: C	20-30cm	6/m²	57.966m²
167 -	EUO HUG	Euonymus japonicus 'Jean Hugues'	2L	C	20-40cm	6/m²	26.5065m²
95 -	HEBGG	Hebe 'Green Globe'	3L	Bushy: 7 brks: C	15-20cm	9/m²	10.2983m²
517 -	HEB WIN	Hebe 'Mrs Winder'	3L	Bushy: 5 brks: C	30-40cm	6/m²	82.9573m²
202 -	HEB GEM	Hebe 'White Gem'	3L	Bushy: 5 brks: C	20-30cm	6/m²	32.941m²
335 -	LON PIL	Lonicera pileata	3L	Bushy: 6 brks: C		6/m²	53.979m²
388 -	POT ELI	Potentilla fruticosa 'Elizabeth'	3L	Bushy: 3 brks: C		7/m²	53.5965m²
202 -	PRU BRA	Prunus laurocerasus 'Cherry Brandy'	3L	Bushy: 3 brks: C		3/m²	63.776m²
138 -	PRU LUS	Prunus lusitanica	3L	Bushy: 4 brks: C	30-40cm	5/m²	26.6652m²
85 -	SAN CHA	Santolina chamaecyparissus	3L	Bushy: 7 brks: C	20-30cm	6/m²	13.559m²
112 -	SAN VIR	Santolina virens	3L	Bushy: 7 brks: C	20-30cm	6/m²	18.1569m²
427 -	SAR HUM	Sarcococca humilis	3L	Bushy: 6 brks: C	20-25cm	6/m²	69.4273m²
Total :5465 -							Total :908.0179m²

Herbaceous

Number	Abbreviation	Species	Pot Size	Specification	Density	Area
186 -	ART CAS	Artemisia 'Powis Castle'	3L	Bushy: 5 brks: C	7/m²	25.7719m²
138 -	GER BLU	Geranium 'Johnson's Blue'	3L	Full Pot: C	7/m²	19.2047m²
Total :324 -						Total :44.9766m²

Climbers

Number	Abbreviation	Species	Pot Size	Specification	Height	Density
20 -	CLE VIT	Clematis vitalba	2L	Caned: Several Shoots: 2 brks: C	60-80cm	Counted
Total :20 -						

Mixed Landscape Buffer

Number	Abbreviation	Species	Specification	Height	Density	Area	Pot Size
29 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	1Ctr	26.2379m²	
46 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	1Ctr	43.7298m²	
20 -	ILE AQU	Ilex aquifolium	1+0: Seedlings: CE	20-40cm	1Ctr	17.4919m²	150cc min.
11 -	PRU PAD	Prunus padus	1+1: Transplant - seed raised: B	80-100cm	1Ctr	8.7459m²	
29 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm	1Ctr	26.2379m²	
20 -	ROS ARV	Rosa arvensis	1+0: Seedlings: Branched: 2 brks: B	50-60cm	1Ctr	17.4919m²	
20 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	1Ctr	17.4919m²	
11 -	SAM NIG	Sambucus nigra	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	1Ctr	8.7459m²	
11 -	VIB OPU	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	1Ctr	8.7459m²	
Total :197 -						Total :174.919m²	

Mixed Native Bulbous

Number	Abbreviation	Species	Specification	Density	Area	Bulb Size
473 -	ANE NEM	Anemone nemorosa	Plug: Established Root min. 2-3 Months: Sept to April planting: British Native-origin: C	20/m²	23.4778m²	
473 -	COL AUT	Colchicum autumnale	Grade 18/20	20/m²	23.4778m²	18/20
473 -	HYA SCR	Hyacinthoides non-scripta	Plug: Established Root min. 2-3 Months: Sept to April planting: British Native-origin: C	20/m²	23.4778m²	
473 -	NAR OBV	Narcissus obvallaris	Grade 8/10	20/m²	23.4778m²	8/10
473 -	NAR PSE	Narcissus pseudonarcissus	Grade 5/6	20/m²	23.4778m²	5/6
Total :2365 -					Total :117.389m²	

Native Hedging Mix (Hawthorn and Blackthorn)

Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution	Length
6 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.4Ctr Double Staggered at 0.3m offset	10%	1.0521m
27 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.4Ctr Double Staggered at 0.3m offset	50%	5.2607m
6 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	60-80cm	0.4Ctr Double Staggered at 0.3m offset	10%	1.0521m
11 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm	0.4Ctr Double Staggered at 0.3m offset	20%	2.1043m
6 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.4Ctr Double Staggered at 0.3m offset	10%	1.0521m
Total :56 -							Total :10.5213m

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REV	DESCRIPTION	DATE
A	Updated to layout "...rev K"	25/08/21
B	Removal of proposed woodland mix	28/09/21
C	Amendments based on Tree Officer's comments	21/10/21
D	Updated to layout "...rev O"	01/03/22
E	Updated to layout "...rev Q"	06/07/22
F	Updated to layout "...rev T"	11/01/23
G	Updated to layout "...rev Q1"	24/05/23
H	Updated to layout "...rev T"	09/08/23
I	Updated to layout "...rev U"	21/09/23
J	Updated to layout "...rev V1"	18/01/24
K	Updated to layout "...rev W"	05/04/24
L	Minor amendments	17/04/24
M	Updated Site Layout "...rev X"	19/07/24

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CLIENT:
Castle Green Homes

PROJECT:
Tan Y Bont, Main Road, Rhosrobin, Wrexham

DRAWING TITLE:
Planting Plan (Sheet 9 of 9)

SCALE:	DRAWING No:	REV:
1:200 @ A0		

DRAWN BY:	CHKD BY:	DATE:		
CO	CN	16/01/2024	P.1421.21.03	M

Appendix 2

DO NOT SCALE

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

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Landscape Management Plan Key:

Area 1 - Residential development - This area will comprise turf areas, new tree planting, hedges, shrub planting, hard surfacing, railings and fencing.

Area 2 - Public Open Space - This area will comprise amenity grass seeding, wildflowers meadows, bulb planting, new tree planting, hard surfacing, and also the management of existing hedgerows and existing trees.

Area 3 - Play area - This area will comprise amenity grass seeding, wildflowers meadows, bulb planting, new tree planting, play equipment, hard surfacing, Self-closing gates, fencing and litter management.

REV	DESCRIPTION	DATE
A	Updated to layout "...rev K"	17/02/21
B	Removal of proposed woodland mix	25/08/21
C	Amendments based on Tree Officer's comments	28/09/21 21/10/21
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CLIENT: Castle Green Homes

PROJECT: Tan Y Bont, Main Road, Rhosrobin, Wrexham

DRAWING TITLE: Landscape Management Areas Plan

SCALE:	DRAWING No:	REV
NTS @ A0	P.1421.21.05	K

DRAWN BY:	CHKD BY:	DATE:
CO	ON	16/01/2024

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