

HLM
Architects

Landscape Management Plan - MAIN CAR PARKS
PRINCE CHARLES HOSPITAL
Gurnos Road, Merthyr, Tydfil CF47 9DT
P003-HLM-V00-XX-RP-L-900001

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Revisions Table

Date	Company	Initials	Comment	Revision Number
06.05.2021	HLM Architects	AO		P01
17/05/2022	HLM Architects	AO	Programme dates updated	P02
05/07/2022	HLM Architects	AO	Programme dates updated and site layouts	P03

01

Introduction

Introduction

Landscape Management Plan Objectives

HLM are appointed as Landscape Architects for Prince Charles Hospital. This Landscape Management Plan is for the soft landscape planting proposals only in associated within the main car parks development, areas 2 to 7. It has been prepared to sit alongside the Landscape proposals and to ensure the aims and objectives of the design are met.

Landscape Management Plan Objectives

The principal aim of the Landscape Management Plan is to provide a strategy for the on-going protection and maintenance of the landscape proposals for the development to ensure that the scheme matures and achieves the vision of the design team.

The objectives of the Landscape Management Plan are to provide recommendations and strategies to achieve the following

- To ensure the enhancement of the biodiversity and amenity value within the site through the provision of diverse habitats and planting strategies.
- To ensure the successful establishment and continued growth of the landscape, in a manner commensurate with the original design intention.
- To achieve long term sustainability in planting materials, through low maintenance input, but high ecological and visual impacts.
- Protect and enhance the local amenity of the development site through the provision of appropriate boundary planting.

02

Site Location & Planting Proposals

Site Location & General Description

Development will be carried out within a site boundary that is defined by the land currently owned by Cwm Taf Mrgannwg University Health Board. The planting proposals are in association with car park areas 2 to 7 across the main Prince Charles Hospital site.

The planting will be carried out across the car parks, with all planting completed by 31/03/2023

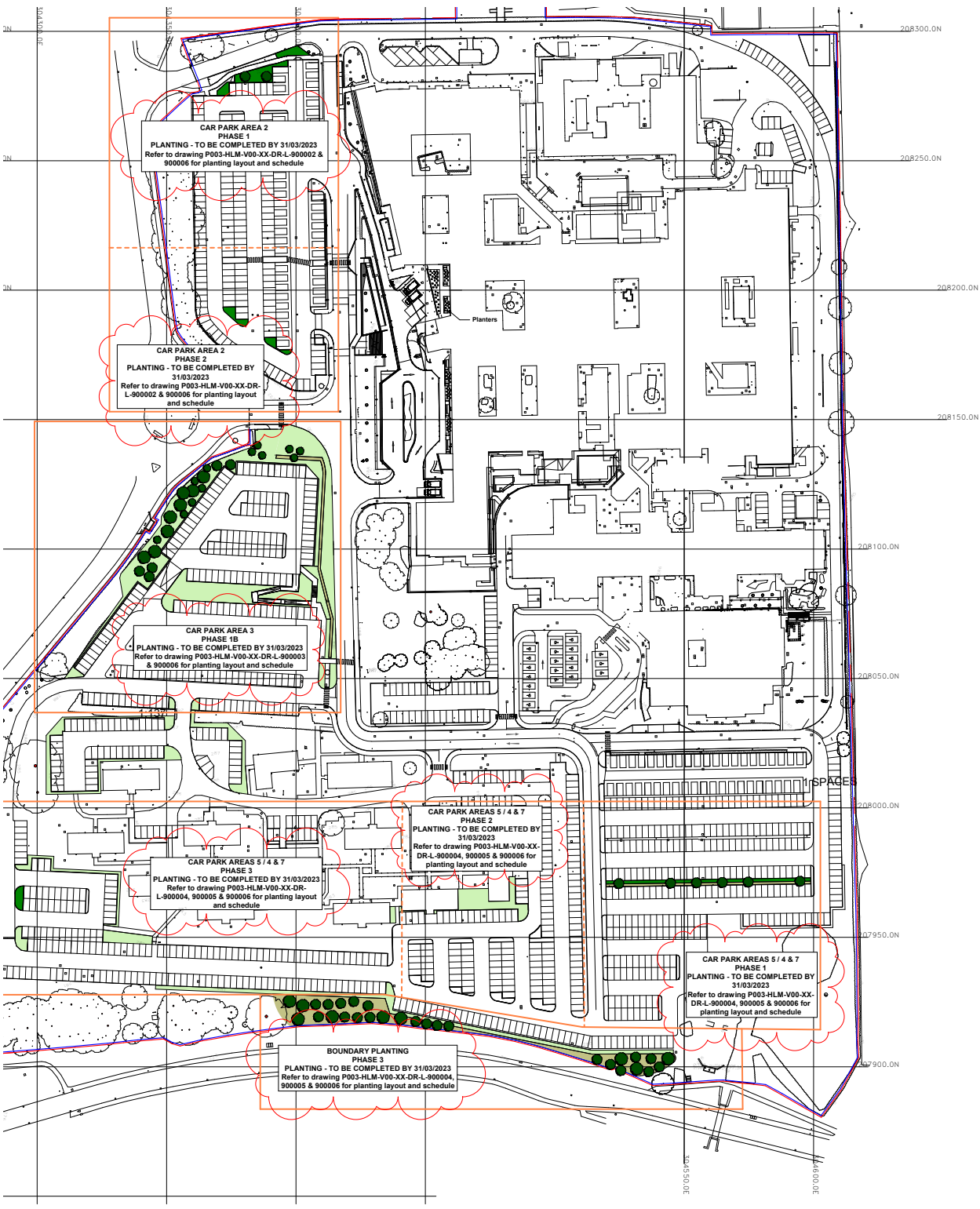
The main areas are:

Car Park Area 2

Car Park Area 3

Car Park Areas 4, 5, 7

Southern Boundary Planting



Main Car Park Site Plan
Planting Areas

Planting Proposals

Car Park Area 2

This car park has planting improvements proposals to the north which will be carried out in Phase 1 works and to the south which will be carried out in phase 2 works.

The programme is:

Phase 1, planting completed by 31/03/2023

Phase 2, planting completed by 31/03/2023

Objectives

- Improve tree cover in the car park
- Continue the landscape amenity planting where modification to the car park layout have altered the layout.
- Provide planting along the footpath to create a buffer to the car park and direct pedestrian circulation

Description

The planting includes new trees, *Tilia cordata* Rancho and *Acer rubrum* October Glory, providing autumn colours.

Shrub planting is a palette of *Cornus alba* Sibirica, *Viburnum davidii* and May Green, giving all year round cover and season interest, as well as being robust and low maintenance.



Car Park Area 2
Phase 1 and 2
Drawing Ref P033-HLM-V00-XX-DR-L-900002



Car Park Area 3
Phase 1b
Drawing Ref P033-HLM-V00-XX-DR-L-900003

Car Park Area 3

This car park has planting improvements proposals as part of the car park re-development.

The programme is:

Phase 1B, planting completed by 31/02/2023

Objectives

- Enhance the western boundary tree planting coverage to continue on the existing tree belt of planting
- Improve the bio-diversity and green corridors around the site
- Hedge planting to screen the car park from the access road.
- Some amenity shrub planting along the main pedestrian path and stepped access to enhance the route

Description

The planting includes new trees, a native mix of *Betula pendula*, *Pinus sylvestris*, *Quercus robur*, *Alnus glutinosa* and *Acer rubrum* October Glory for additional autumn colour.

The hedge screening is created with *Prunus laurocerasus*.

Planting Proposals

Car Park Area 4, 5 and 7

These car parks has planting improvements proposals to the west, with the main planting works to the southern boundary with a new woodland planting.

The programme is:

Phase 3 , planting completed by 31/03/2023

Southern Boundary Planting

planting completed by 31/03/2023

Objectives

- Improvements and amenity grass remediation works around the car park development
- Wodland buffer planting along Gurnos Road boundary to continue the green corridor along the southern approach to the hospital
- Improve site bio-diveristy with habiatat creation.

Description

The woodland planting includes natives species of *Prunus avium Plena*, *Pinus sylvestris*, *Quercus robur*, *Betula pubescens*, *Sorbus aria*, *Sorbus aucuparia* and *Alnus glutinosa*. With a understorey native mix of shrubs and trees.



Car Park Area 4, 5 and 7
Phase 3
Drawing Ref P033-HLM-V00-XX-DR-L-900005



Car Park Area 4, 5 and 7
Phase 1, 2 and 3
Drawing Ref P033-HLM-V00-XX-DR-L-900004

Car Park Area 4, 5 and 7

These car parks have planting improvements proposals to the main car park areas, along with the continued new woodland planting to the southern boundary.

The programme is:

Phase 1, planting completed by 31/03/2023

Phase 2, planting completed by 31/03/2023

Objectives

- Improve tree cover in the car park
- Continue the landscape amenity planting where modification to the car park layout have altered the layout.
- Woodland buffer planting along Gurnos Road boundary to continue the green corridor along the southern approach to the hospital
- Improve site bio-diversity with habitat creation.

Description

The planting includes new trees, *Tilia cordata* Rancho and *Alnus glutinosa*.

Shrub planting is a palette of *Cornus alba* Sibirica, *Viburnum davidii* and *May Green*, giving all year round cover and season interest, as well as being robust and low maintenance.

03

Landscape Maintenance Regimes

Management of New Specimen Trees					
Landscape Type	Objectives	Aims	Post Construction Year 1-5	Maintenance Years 5-10	Maintenance Year 10-15
New Specimen Trees.	To ensure the successful establishment of new standard trees.	Establish tree canopy and good root system quickly Control competition from weeds Provide conditions that will ensure survival of trees Provide visual variety and wildlife benefits.	2 visits per annum: Check for dead or dying trees and replace with like for like (species/ specification). Water as necessary to ensure establishment and continued thriving of planting Check tree for damaged limbs. Remove and treat wounds where necessary Check tree ties & loosen if required annually Check stakes to ensure that they are secure and are not causing damage to the tree. Check tree guards and maintain tree integrity. Re-firm trees in ground after strong winds, frost heave or other disturbances. Maintain weed free 1m diameter area at base of tree using suitable translocated herbicide. Apply during growing season in favourable weather conditions as per manufacturer's instructions. Note: Avoid spray drift. During spring apply fertiliser to each tree station to manufacturers recommended rates and top up bark mulch ring to tree station to maintain 50-75mm depth. Routinely inspection for pests and diseases to be carried out to prevent the spread of disease and pest control.	Remove stakes and ties after five years. 2 visits per annum: Pruning where required to ensure appropriate habit and form. Check for failing or dangerous trees and remove/ replace with like for like (species/ specification). Remove all crossing branches. Check tree for damaged limbs and remove and treat wounds where necessary. Check for leaning trees and re-straighten, re-firm trees in ground after strong winds, frost heave or other disturbances. Replace/ Top up with bark mulch to 75mm depth. Routinely inspection for pests and diseases to be carried out to prevent the spread of disease and pest control.	2 visits per annum: Pruning where required to ensure appropriate habit and form. Check for failing or dangerous trees and remove/ replace with like for like (species/ specification). Remove all crossing branches. Check tree for damaged limbs and remove and treat wounds where necessary. Check for leaning trees and re-straighten, re-firm trees in ground after strong winds, frost heave or other disturbances. Replace/ Top up with bark mulch to 75mm depth. Routinely inspection for pests and diseases to be carried out to prevent the spread of disease and pest control. Maintain as safe trees with adequate clearance to crown and without obstruction to vehicles or pedestrians/cyclists.

Management of Shrubs					
Landscape Type	Objectives	Aims	Post Construction Year 1-5	Maintenance Years 5-10	Maintenance Year 10-15
Shrubs	Maintain planting in a healthy and attractive condition adding amenity value and enhancing the value of planting as a habitat to wildlife. To develop the screen planting to the desired height and width and thereafter to maintain them in this manner.	Establish plants quickly and successfully. Provide conditions that will ensure survival and persistence	Six visits are required in the first two growing seasons. Check for dead or dying plants and replace with like for like (species/ specification) in the next available planting season. Control competition from weeds. At each visit firm in and straighten any loose plants. Maintain planted areas free of weeds using combination of cultivation, mulching and hand-pulling or suitable. Water as necessary to ensure establishment and continued thriving of planting. (Any period without substantial rainfall for 14 days or more) Remove litter off site after every site visit.	2 visits per annum: Check for dead or dying plants and replace with like for like (species/ specification) in the next available planting season. Prune back in the period between November to March in accordance with sound horticultural practices without damage to the natural habitat. Remove litter off site after every site visit. Once plants are established, let ground story naturally colonise.	2 visits per annum: Check for dead or dying plants and replace with like for like (species/ specification) in the next available planting season. Arboricultural survey should be carried out to identify the need for thinning and potential for further strategies for the enhancement of biodiversity. Remove litter off site after every site visit. Maintain planting so as to cause no obstruction to vehicles or pedestrians/cyclists.

Management of Hedging					
Area Type	Objectives	Aims	Post Construction Year 1-5	Maintenance Years 5-10	Maintenance Year 10-15
Proposed Hedging	To maintain healthy and safe hedge, to define boundaries and offer privacy / screening.	Provide conditions that will ensure survival, persistence and spread of plants To reinforce boundary and define screening edge.	2 visits per annum: Check for dead or dying hedging plants and replace with like for like (species / specification). Check hedging support fencing and repair if damaged Trim hedge to height and shape as per original design (0.5-1.5m height for ornamental & 1.5-2.0m for native) after bird nesting season. Cut back to previous seasons growth 12 visits per annum: Maintain weed free area 500mm width to each side of hedge centreline using suitable translocated herbicide. Apply during growing season in favourable weather conditions as per manufacturer's instructions. Note: Avoid spray drift. During spring apply fertiliser to hedges to manufacturers recommended rates and top up bark mulch to maintain a max of 75mm depth. Remove litter off site after every site visit.	2 visits per annum: Check hedge for damaged limbs and remove and treat wounds where necessary Trim hedge to height and shape as per original design (0.5-1.5m height for ornamental after bird nesting season & 1.5-2.0m for native during October) Cut back to previous seasons growth. 12 visits per annum: Maintain weed free area 500mm width to each side of hedge centreline using suitable translocated herbicide. Apply during growing season in favourable weather conditions as per manufacturer's instructions. Note: Avoid spray drift. During spring apply fertiliser to hedges to manufacturers recommended rates and top up bark mulch to maintain a max of 75mm depth.	2 visits per annum: Check hedge for damaged limbs and remove and treat wounds where necessary Trim hedge to height and shape as per original design (0.5-1.5m height for ornamental after bird nesting season & 1.5-2.0m for native during October) Cut back to previous seasons growth. 12 visits per annum: Maintain weed free area 500mm width to each side of hedge centreline using suitable translocated herbicide. Apply during growing season in favourable weather conditions as per manufacturer's instructions. Note: Avoid spray drift. During spring apply fertiliser to hedges to manufacturers recommended rates and top up bark mulch to maintain a max of 75mm depth. Ensure all Health & Safety considerations are taken into account.

Management of Woodland Planting					
Area Type	Objectives	Aims	Post Construction Year 1-5	Maintenance Years 5-10	Maintenance Year 10-15
Woodland Planting	To maintain healthy and safe hedge, to define boundaries and offer privacy / screening	Provide conditions that will ensure survival, persistence and spread of plants	2 visits per annum: Check for dead or dying plants and replace with like for like (species/ specification) in the next planting season. Water as necessary to ensure establishment and continued thriving of planting Check for damaged limbs. Remove and treat wounds where necessary Check tree ties & loosen if required annually Check stakes to ensure that they are secure and are not causing damage to the tree Check tree guards and maintain tree integrity Maintain weed free 1m diameter area at base of tree using suitable translocated herbicide. Apply during growing season in favourable weather conditions as per manufacturer's instructions. Note: Avoid spray drift. Remove litter offsite after every site visit.	Remove stakes and ties after five years. 2 visits per annum: Pruning where required to ensure appropriate habit and form. Check for failing or dangerous trees and remove/ replace with like for like (species/ specification). Remove all crossing branches. Check tree for damaged limbs and remove and treat wounds where necessary. Thin tree planting to approved horticultural standards, firstly removing misshapen or weak trees. Top up/ replace bark as required	1 visits per annum: Pruning where required to ensure appropriate habit and form. Check for failing or dangerous trees and remove/ replace with like for like (species/ specification). Remove all crossing branches. Check tree for damaged limbs and remove and treat wounds where necessary. Thin tree planting to approved horticultural standards, firstly removing misshapen and / or weak trees. Ensure all Health & Safety considerations are taken into account. Top up/ replace bark as required

Management of Amenity Grass Areas					
Area Type	Objectives	Aims	Post Construction Year 1-5	Maintenance Years 5-10	Maintenance Year 10-15
Amenity Grass Areas.	Amenity Grass Seeded and Turfed areas to facilitate good access for users whilst not compromising educational resource of the habitat area.	Establish plant cover quickly Control competition from weeds Provide conditions that will ensure survival, persistence and spread of grasses Monitor establishment to Maintain a grass sward to a height of between a minimum of 25mm and a maximum of 75mm. Provide usable open space. Establish bulb planting in non-trafficked areas to provide seasonal interest.	Throughout year and as/ when required: Replace/ repair failed areas of turf and ensure sufficient watering is carried out to maintain thriving grass sward. Water with a fine spray during prolonged periods of drought to ensure survival and maintain thriving grass sward. Maintain grass sward to a height of between a minimum of 25mm and a maximum of 150mm Trim edges to footpaths/ hard landscape Remove litter & debris off site after every site visit. Apply annually, in spring and autumn a suitable fertiliser at manufacturers recommended rate.	Throughout year and as/ when required: Maintain grass sward to a height of between a minimum of 25mm and a maximum of 150 mm to encourage vigorous growth Trim edges to footpaths/ hard landscape Remove litter off site after every site visit. Apply annually, in spring and autumn a suitable fertiliser at manufacturers recommended rate. Omit mowing in bulb areas in Spring/ Autumn flowering season until bulb foliage has died back.	Throughout year and as/ when required: Maintain grass sward to a height of between a minimum of 25mm and a maximum of 150 mm to encourage vigorous growth Trim edges to footpaths/ hard landscape Remove litter off site after every site visit. Apply annually, in spring and autumn a suitable fertiliser at manufacturers recommended rate. Omit mowing in bulb areas in Spring/ Autumn flowering season until bulb foliage has died back.

04 Implementation

Implementation

All planting, or seeding comprised in the approved details of landscaping shall be carried out in the appropriate planting season as per the phasing programme identified.

Any trees or plants which within a period of five years from the completion of the development die, are removed or become seriously damaged or diseased shall be replaced in the next planting season with others of similar size and species, unless the Local Planning Authority gives written consent to any variation

Tree work should be carried out in accordance with BS 3998 and Health and Safety Executive (HSE) ‘Forestry and arboriculture safety leaflets’. In each case cut back live wood using appropriate tools and do not prune during late winter/early spring period.

All tree work should be carried out by a suitably qualified professional tree surgeon, a registered member of the Arboricultural Association. Local Authority to be consulted for any works to trees covered under Tree Preservation Order.

Drawing references for planting proposals and schedule:

- P003-HLM-V00-XX-DR-L-900001
- P003-HLM-V00-XX-DR-L-900002
- P003-HLM-V00-XX-DR-L-900003
- P003-HLM-V00-XX-DR-L-900004
- P003-HLM-V00-XX-DR-L-900005
- P003-HLM-V00-XX-DR-L-900006

The Management Compnay for the development will hold the first level of responsibility for the implmentation of the Landscape Management Plan. The on-going, day to day implementation, monitoring and reviewing of this plan will be undertaken by the Facilities Management Team at Prince Charles Hosiptal.

