KEY

- Significant trees to be retained (approximate position)
- Woodland/shrubs to be retained (approximate extent)
- Significant trees to be removed (approximate position)
- Proposed standard native tree planting (Phase 2)
- Proposed large feathered native tree planting (Phase 2)
- Proposed small feathered native tree planting (Phase 2)
- Trees proposed as part of earlier projects
- Proposed native tree and shrub mass planting (Phase 2)
- Native tree and shrub mass planting proposed as part of earlier application
- Phase 3 area
- Proposed planting: phase 3
- Proposed fencing
- Proposed gabion wall with stone fill
- Proposed topsoil bund
- Building (proposed and existing)
- Paths, roads, parking etc.
- Boulders
- Hibernacula/log piles
- Surface drainage feature
- Manholes and underground drainage features
- Site area (approximate)

NOTE: Details of drainage are a guide only. For precise details, refer to engineer's drawings.



SCALE

0 5 10 50m

Scale 1:500 printed at A0

NOTES ON THE DETAILED LANDSCAPE PROPOSALS MASTERPLAN

This masterplan should be read in conjunction with the Landscape Maintenance Plan and Landscape Maintenance Programme.

PROPOSED PLANTING

SITE CLEARANCE

Wooded and scrub areas scheduled for development to be cleared as follows:
1. Cut all vegetation to ground. Small branches, twigs and leaves to be removed and shredded for use as mulch. Larger branches to be removed and used for log piles and hibernacula.
2. Within woodland, remove top organic-rich topsoil layer **(topsoil O)** to a depth of 200mm below existing surface. Remove to store or re-use immediately as directed below.
3. Within woodland, remove topsoil **(topsoil A)** from 200-c.400mm below existing surface (or to formation level if shallower). Remove to store or re-use immediately as directed below.
4. Within scrub area, remove topsoil **(topsoil A)** from surface to c.400mm below existing surface (or to formation level if shallower). Remove to store or re-use immediately as directed below.
5. Remove subsoil to formation level and remove to store or re-use immediately.

GENERAL PREPARATION AND PLANTING

- With the exception of areas beneath the canopies of retained trees, all planting beds (ie those to be planted with transplants) to be ripped at 1m centres to 450mm to break up compaction before any topsoil is placed.
- Topsoil to be minimum 400mm (settled) depth across all beds. A minimum of one month before planting, topsoil A (see above) from site store to be spread across all beds to the required depth. Finished, settled level to be at or above level of adjacent surfaces.
- All stock to be grown in the UK from British provenence seed gathered within 100miles of Merthyr Tydfil. Stock available from TyRhos Trees (www.tyrhostrees.co.uk) or Wyevale Nurseries (enquiries@wyevale-nurseries.co.uk).
- All stock to be supplied with roots wrapped in damp straw inside a black polythene bag. All stock supplied or planted outside planting season (Nov-March) to be container grown.
- Except where it contradicts this specification, all trees and shrubs to conform to BS 3936.
- Planting to take place in the autumn following completion of construction within each discrete area. All plants to be planted between the start of November and the end of December subject to seasonal variations.
- Minimum 1 week prior to planting of transplants, all vegetation within beds to be killed with flame gun directed at the base of each plant.
- Minimum 1 week prior to planting of feathered trees, a 1m diameter circle of ground is to be cleared of all vegetation with a flame gun as above in the proposed location of each tree where this does not coincide with a planting bed.
- If planting takes place beyond the bare-root planting season, all plants should be supplied and planted as container grown stock.
- All transplants to be slit planted. All feathered trees to be pit planted in a pit of minimum size 450mm square, 300mm deep. All standard trees to be pit planted in a pit of minimum size 750mm square, 500mm deep.
- Immediately after planting, before watering all beds to be forked over by hand to relieve surface compaction.
- Soil around all plants to be watered with 10 litres of water per plant immediately after forking to ensure settling of soil around roots.
- After watering, all planting beds to be covered with 100mm settled depth of topsoil O (ie the organic-rich layer stripped from the top 200mm). Do not compact or fork in.

TRANSPLANTS

- The following notes refer only to trees and shrubs shown mass planted in beds (within green lines on the plan) and not shown individually. Other tree species (shown individually by crosses within circles on the plan) to be planted as per **TREES** section below.
- Holly to be grown in single species groups of 3-10. Other shrub species (hazel, hawthorn, blackthorn) to be planted in single species groups of 10-25 where numbers in bed allow. Where numbers in bed do not allow planting in groups of this size, plants in groups of 3-10.
- Tree species to be planted in single species groups of 5-15 where numbers in bed allow. Where numbers in bed do not allow planting in groups of this size, plants in groups of 3-5.

TREES

- The following notes refer only to trees shown on the plan by a cross within a circle. Other tree species to be planted as per **TRANSPLANTS** section above.
- Trees are to be planted in positions as shown on plan *prior* to planting of transplants.
- All feathered trees to be planted with single short (1200mm long, 700mm above ground) stake. Stake to be pressure-treated softwood minimum 50mm cross section and driven into ground at an angle of c.45° to cross tree stem at c.400mm above GL. Stem to be secured to stake with light-duty rubber tree tie & spacer. Stake to be angled in line with prevailing wind.
- All standard trees to be planted with 2 short (1350mm long, 600mm above ground) stakes with crossbar, tree tie & spacer. Stakes to be Robinia or pressure treated softwood min 75mm diameter installed *before* tree is planted.
- A 600mm diameter 100mm deep circle of mulch (composted woodchip or composted shredded twigs/branches) to be applied after planting around all trees in grass. Wood from basal parts of trees infected with honey fungus, Phytophthora root rot, or parts of trees infected with stem diseases such as verticillium wilt or coral spot should not be used as mulch.

PROPOSED SEEDING ALONG SWALES ETC.

SWALES

Surface of swales to be seeded upon completion of construction with Emorsgate EM8 and Emorsgate EP1 at 4g/sqm mixed at a ratio of 2:1 as per ecologist's recommendations. Preparation and sowing to be as per supplier's instructions except that no herbicide is to be used at any stage.

INFILTRATION STRIPS/FILTER DRAINS

Disturbed ground and bare soil immediately adjacent to infiltration strips and filter drains to be seeded upon completion of construction with Emorsgate EM8 at 4g/sqm as per ecologist's recommednations. Preparation and sowing to be as per supplier's instructions except that no herbicide is to be used at any stage.

All other seeding to be as per notes for Disturbed Ground below.

DISTURBED GROUND

GENERAL

- It is proposed that soft landscape areas disturbed during the construction process, that are not scheduled for mass planting with trees and shrubs, should be seeded at 5g/sqm with BS8M Woodland and Heavy Shade Wildflower Seed Mix (by Boston Seeds).
- Such areas left without topsoil after works, should be spread with min 150mm of topsoil O (ie the organic-rich layer stripped from the top 200mm) from the site store before seeding.
- Topsoil spreading should only take place when topsoil is neither dry and dusty nor so moist that the structure is likely to be damaged by machine passage or handling.
- Unless otherwise stated, finished levels of topsoil after settlement to be level with adjoining paving, kerbs, manholes etc. & should be feathered into adjacent undisturbed areas.

PREPARATION

- In order to limit damage to its structure, topsoil is to be subject to a minimum of handling and cultivation. It is to be left in a condition upon placing that will not leave it vulnerable to compaction and sheetwash during heavy rain.
- **Disturbed areas outside of existing woodland:** topsoil to be levelled to break up clods of earth, remove ridges and bumps and fill hollows. The topsoil should be left with a fairly rough surface with lumps ≤120mm in size.
- **Disturbed areas within existing woodland:** topsoil to be roughly levelled to break up larger clods of earth (>200mm), remove large ridges (>300mm high) and large bumps (>300mm high) and fill deep hollows (>300mm deep). The topsoil should be left with a rough surface with lumps ≤200mm in size. Do not carry out levelling that will break tree roots or cover them with an overburden of more than 200mm.
- As the native topsoil is clayey, rotavators and other power cultivators shall not be used on this site for any operation. Use of such machinery would destroy topsoil structure and would produce a capped layer which would impede drainage and set back germination and subsequent establishment. Such treatement would also be likely to lead to sheetwash during heavy rain. All cultivation works to be carried out with harrows, digger buckets or by hand as appropriate. Levelling with digger buckets should be carried out by drawing toothed bucket across surface and not by compaction with back of bucket or by tracking over surface. Machinery should not be driven beneath canopies of trees except along hard surfacing (ie drives, roads and parking).

PLANTING: SCHEDULE (phase 2 only).

STANDARD TREES (large cross within large circle)

Symb.	Species	English name	Size	No
AgXX	Alnus glutinosa	Common Alder	18-20 X Heavy standard	0

LARGE FEATHERED TREES (large cross within small circle)

Symb.	Species	English name	Size	
Agx	Alnus glutinosa	Common Alder	175-200 feathered	21
Qrx	Quercus robur	Pedunculate oak	175-200 feathered	37
Saux	Sorbus aucuparia	Rowan	175-200 feathered	32

SMALL FEATHERED TREES (small cross within small circle)

Symb.	Species	English name	Size	
Ag	Alnus glutinosa	Common Alder	125-150 feathered	98
Bpe	Betula pendula	Silver Birch	125-150 feathered	100
Bpu	Betula pubescens	Hairy Birch	125-150 feathered	76
Qp	Quercus petraea	Sessile oak	125-150 feathered	164
Qr	Quercus robur	Pedunculate oak	125-150 feathered	99
Sau	Sorbus aucuparia	Rowan	125-150 feathered	86

TRANSPLANTS and SHRUBS (within mass planting beds) total No 3,950

Symb.	Species	English name	Size	
Ag	Alnus glutinosa	Common Alder	40-60 1u1 or 1+1	94
Bpe	Betula pendula	Silver Birch	40-60 1u1 or 1+1	82
Bpu	Betula pubescens	Hairy Birch	40-60 1u1 or 1+1	82
Ca	Corylus avellana	Hazel	40-60 1u1 or 1+1	383
Cmo	Crataegus monogyna	Hawthorn	40-60 1u1 or 1+1	179
Cv	Clematis vitalba	Old Man's Beard	40-60 3 litre pot	3
Hd	Hedera helix	Ivy	40-60 3 litre pot	4
Ia	Ilex aquifolium	Holly	P9	257
Lp	Lonicera periclymenum	Honeysuckle	40-60 3 litre pot	3
Pu	Prunus spinosa	Blackthorn	40-60 1u1 or 1+1	196
Qp	Quercus petraea	Sessile oak	40-60 1u1 or 1+1	153
Qr	Quercus robur	Pedunculate oak	40-60 1u1 or 1+1	85
Sau	Sorbus aucuparia	Rowan	40-60 1u1 or 1+1	45

Mass planting beds total area = 2,025 sqm.

PLANTING: SCHEDULE (phase 3 only).

STANDARD TREES (large cross within large circle)

Symb.	Species	English name	Size	No
AgXX	Alnus glutinosa	Common Alder	18-20 X Heavy standard	24

LARGE FEATHERED TREES (large cross within small circle)

Symb.	Species	English name	Size	
Agx	Alnus glutinosa	Common Alder	175-200 feathered	9
Qrx	Quercus robur	Pedunculate oak	175-200 feathered	22
Saux	Sorbus aucuparia	Rowan	175-200 feathered	17

SMALL FEATHERED TREES (small cross within small circle)

Symb.	Species	English name	Size	
Ag	Alnus glutinosa	Common Alder	125-150 feathered	38
Bpe	Betula pendula	Silver Birch	125-150 feathered	50
Bpu	Betula pubescens	Hairy Birch	125-150 feathered	65
Qp	Quercus petraea	Sessile oak	125-150 feathered	106
Qr	Quercus robur	Pedunculate oak	125-150 feathered	119
Sau	Sorbus aucuparia	Rowan	125-150 feathered	45

TRANSPLANTS (within mass planting beds) total No 3,950

Symb.	Species	English name	Size	
Ag	Alnus glutinosa	Common Alder	40-60 1u1 or 1+1	228
Bpe	Betula pendula	Silver Birch	40-60 1u1 or 1+1	169
Bpu	Betula pubescens	Hairy Birch	40-60 1u1 or 1+1	184
Ca	Corylus avellana	Hazel	40-60 1u1 or 1+1	633
Cmo	Crataegus monogyna	Hawthorn	40-60 1u1 or 1+1	283
Ia	Ilex aquifolium	Holly	P9	131
Pu	Prunus spinosa	Blackthorn	40-60 1u1 or 1+1	253
Qp	Quercus petraea	Sessile oak	40-60 1u1 or 1+1	201
Qr	Quercus robur	Pedunculate oak	40-60 1u1 or 1+1	203
Sau	Sorbus aucuparia	Rowan	40-60 1u1 or 1+1	138

Mass planting beds total area = 2,817 sqm.

PROPOSED HABITAT PILES

A total of 12 habitat piles are shown across the area of development within woodland and more open areas. Around half of the habitat piles should be hibernacula and the other half, log piles. They should be constructed as follows:

CONSTRUCTION OF HIBERNACULA

1. In areas beneath tree canopies and in waterlogged ground, hibernacula to be constructed on surface. Elsewhere, in open areas, where the ground is not waterlogged, remove and set aside turfs and excavate a hole c.500mm deep (or until the bedrock whichever is the shallower) and c.2m long and 1.25m wide.
2. Large branches (>24mm diameter) and logs from clearance and maintenance works should be cut into lengths no less than 1m in length.
3. Branches and logs to be piled (laid approximately horizontally) within hole to a height of c.900mm above ground level. Large rocks (200-400mm) may also be incorporated.
4. Logs (and stones if used) to be completely covered with soil from the excavation. 2 or 3 openings should be created in each hibernaculum at or near ground level for reptiles, amphibians and invertebrates to gain access to spaces between logs in interior. Rocks should be used to form permanent entrances.
5. Cover hibernaculum with turves (if available) retaining openings.
6. Hibernacula should be stable, no higher than 1.2m and sited away from access and parking as shown on the plan.

CONSTRUCTION OF LOG PILES

1. Large branches (>24mm diameter) and logs from clearance and maintenance works should be cut into lengths no less than 2.5m in length.
2. Branches and logs to be piled (laid approximately horizontally) to a height of c.900mm above ground level.
3. Log piles should be stable, no higher than 1.2m high and sited away from access and parking in a variety of situations: shade, partial shade, sun.
4. Around half of the total number of log piles should be lightly covered in topsoil O. The other half of the piles should remain uncovered except for a partial covering of leaves.

Should there be an insufficient supply of timber at the time of construction, hibernacula and log piles should be constructed as timber becomes available from ongoing landscape maintenance. Branches smaller then 24mm diameter should be piled as described in the Landscape Maintenance Programme.

PETER QUINN ASSOCIATES

LANDSCAPE ARCHITECTURE

01989 768 588
www.landscapemidlands.co.uk

Project title: Bike Parks Wales, Abercanaid

Drawing title: Detailed Landscape Proposals Masterplan

Client: Bike Parks Wales

Date: 1st June 2019

Revisions:

- **Rev A:** 14th Aug 19. Amendment of proposed overflow & main parking areas & associated landscape.
- **Rev B:** 4th Oct 19. Amendments in line with changes to masterplan. Increase in size of alder.
- **Rev C:** 11th Oct 19. Amendments to terrace in line with changes to masterplan.
- **Rev D:** 13th Nov 2019. Adjustment of tree positions and associated proposals.
- **Rev E:** 24th Jan 2020. Planting shown as phase 2 and Phase 3.
- **Rev F:** 12th Nov 2020. Swale/infiltration strip/filter drain planting details added.
- **Rev G:** 19th April 2021. Amendment of bike wash facility and steps from terrace to match as-built.
- **Rev H:** 18th Dec 2021. Amendment of layout in line with changes to camping pods and toilets etc.
- **Rev i:** 8th April 2022. Amendment of layout in line with changes to camping pods and toilets etc.
- Rev J: 11th August 2022. Revised drainage information and associated minor changes to planting.

Drawing number: 19/461/09 J

DETAILED LANDSCAPE PROPOSALS MASTERPLAN

NORTH