

Ecological Enhancement Strategy

PROJECT TITLE: Construction of 149 residential dwellings and associated works.

SITE ADDRESS: Riverside, Farm Road, Aberaman,, Rhondda Cynon Taff, CF446LJ.

PLANNING REF: 24/1005/FUL

DATE: 21st April 2026

1. Introduction

1.1) Full planning permission (*ref. 20/1225*) has been granted for the development of 149 residential dwellings within the site boundary. The development site is centred at grid reference ST32094 87026, located along Usk Way in Newport. The site lies approximately 150 m west of the River Usk and is bounded by roads, residential properties and warehouses on all sides.

The site currently comprises predominantly tall ruderal vegetation and scrub, with smaller areas of semi-improved grassland and an established tree line. These habitats form the baseline ecological context for the proposed development.

1.2) The planning application is subject to a number of conditions. Condition 7 states:

“Notwithstanding the screening process and notwithstanding the approved drawings, prior to the commencement of development a scheme of ecological enhancement shall be submitted to and approved in writing by the Local Planning Authority. The approved enhancement measures shall be implemented prior to the occupation of the development and retained thereafter.”

Reason”In the interests of sustainable development and ecology, in accordance with policies SP1 and GP5.”

1.3) A Preliminary Ecological Assessment (PEA) of the site was undertaken by JBA Consulting, with the original report issued in October 2018 and subsequently updated in September 2020. The PEA field survey was completed on 11 July 2018 and was supported by a desk-based data search undertaken the same month.

1.4) The data search identified that the River Usk, located approximately 150 m east of the site, is designated as both a Special Area of Conservation (SAC) and a Site of Special Scientific Interest (SSSI).

1.5) The PEA identified the dominant habitat within the site as tall ruderal vegetation and scrub, with a strip of semi-improved grassland and an established tree line present along the western boundary. Although Japanese knotweed was not recorded during the initial PEA survey,

subsequent walkover surveys undertaken in 2020 identified small stands of this invasive non-native species associated with spoil piles within the site.

1.6) Reptile surveys were undertaken by JBA Consulting in 2018 and the findings were reported within a Reptile Mitigation Strategy issued in December 2020. A total of 100 artificial reptile refugia were deployed across the site and checked on ten occasions between August and October 2018. The surveys recorded the presence of slow worm at low population levels, with a total of seven individuals recorded over the ten survey visits. The population was assessed as small and localised, confined to areas of the site containing suitable vegetation.

1.7) The report noted that vegetation clearance and the installation of reptile exclusion fencing had already been undertaken at Old Town Dock. Clearance works were carried out under suitable weather conditions and under ecological supervision, with the aim of reducing habitat suitability for breeding birds and slow worms prior to construction. A reptile exclusion fence had been installed around an area in the southwestern corner of the site to prevent slow worms from accessing this area.

1.8) A reptile translocation scheme is understood to have been undertaken on site and reported within a JBA Consulting Reptile Translocation Report (August 2021). Reptile refugia mats were placed on site in April 2021 and checked over a six week period whereby any captured reptiles were to be transported to a receptor site, although it was noted that no slow worms were identified during the translocation checks.

1.9) An Arboricultural Impact Assessment was undertaken by ArbTS on 23 March 2020, with the findings reported in May 2021. The assessment identified one tree area comprising goat willow (Area A1), four tree groups (Groups G1 - G4) consisting primarily of wild cherry, birch, sweet gum and elm, and a total of 40 individual trees (Trees T1 - T40). Individual tree species recorded include lime, silver maple, Norway maple and wych elm. All trees assessed within the site were categorised as either Category B (moderate quality and desirable for retention) or Category C (low quality and optional for retention), in accordance with standard arboricultural classification.

1.10) A Japanese Knotweed Management Plan was prepared by JBA Consulting in September 2020 following the identification of small stands of this invasive non-native plant species within spoil heaps located in the southern part of the site.

1.11) *The Environment Act (Wales) 2016* places a duty on competent authorities and councils including Newport Council to conserve and enhance biodiversity. As such recommendations are made within this report to improve the biodiversity value of the proposed development. Chapter 6 of *Planning Policy Wales (version 12)*, paragraph 6.2.5 requires Green Infrastructure considerations to be included with all planning applications. The delivery of green infrastructure features can also provide habitat compensation and biodiversity enhancements within a scheme.

2. Biodiversity Measures

2.1) A series of biodiversity measures are required to be included within the development proposals to compensate for habitat loss and also help demonstrate an overall biodiversity enhancement that can be delivered. The below measures will be included within the development proposals.

Provision of Bird Nesting Opportunities

2.2) A total of 40 **integrated bird boxes** will be provided within the proposed development. All boxes will be built into the external fabric of the buildings at eaves level, positioned at a minimum height of 3 m above ground level. Indicative images of suitable integrated bird boxes are provided in Appendix 1.

2.3) 20 **PRO UK Visible Build-In Swift Box** and 20 **Vivara Pro UK Build-In Half-Open Nest Box** are proposed as the suggested box types for the development, as both are well suited for integration within new-build structures. Where these specific products are unavailable, alternative integrated nest boxes of an equivalent specification and suitability may be used.

2.4) The 20 **PRO UK Visible Build-In Swift bird boxes** will be installed on the relevant gable ends of the below building units (Blue on plan):

- 26, 27, 30, 34, 37, 43, 46, 49, 52, 56,
- 94, 97, 100, 104, 107, 110, 115, 121, 125, 126.

2.5) The 20 **Vivara Pro UK Build-In Half-Open bird boxes** will be installed on the relevant gable ends of the below building units (Orange on plan):

- 60, 65, 69, 70, 75, 80, 83, 86, 87, 90,
- 129, 131, 133, 135, 137, 139, 141, 143, 145, and 147.

2.6) Photographic evidence of the boxes will be sent to the local planning authority ecologist once completed. Examples of types of suitable bird boxes can be found in Appendix 1. Their indicative locations are shown in Appendix 2 but the location of all biodiversity features must be shown on architectural drawings.

Provision of Bat Roosting Opportunities

2.7) A total of 40 Integrated **Vivara Pro Build-in bat boxes** (or similar design) will be provided within the new development. All boxes will be built into the walls no lower than eaves level of the building with the access gap left open for use.

2.8) The bat boxes will be installed on the relevant gable ends of the below building units (Pink on plan):

- 22, 29, 33, 36, 40, 41, 44, 47, 50, 53,
- 57, 61, 66, 71, 72, 77, 81, 84, 89, 93,

-
- 96, 99, 103, 106, 109, 113, 118, 119, 122, 128,
 - 130, 132, 134, 136, 138, 140, 142, 144, 146, and 148.

2.9) No external lighting will be placed within 2 m of any bat box. Photographic evidence of the boxes will be sent to the local planning authority ecologist once completed. Examples of types of suitable bat boxes can be found in Appendix 1. Their indicative locations are shown in Appendix 2 but the location of all biodiversity features must be shown on architectural drawings.

Provision of Invertebrate Features

2.10) A total of 30 **integrated bee bricks** will be installed as part of the proposed development. Bee bricks can only be incorporated within elevations finished in brickwork, and are therefore suitable for the following house types: Type A 03A, Type A 03B, Type B 02B, and Type 02A. All bee bricks will be installed at a minimum height of 3 m above ground level to reduce the risk of disturbance from occupants and site users and to maximise suitability for solitary bee species.

2.11) At the time of writing, a site plan identifying the house type for each individual unit is not available, and therefore it is not possible to provide plot-specific advice on bee brick placement. The final locations of all biodiversity enhancement features, including bee bricks, must be clearly shown on the approved architectural drawings. Photographic evidence confirming the correct installation of the bee bricks will be submitted to the Local Planning Authority ecologist following completion of the works. Examples of suitable bee brick types are provided in Appendix 1.

Fencing

2.12) Any close board or mesh fencing within the site boundary will incorporate features to ensure it is wildlife friendly. The location of all biodiversity features must be shown on architectural drawings. Such fencing will have either: a 13 cm by 13 cm gap cut at ground level every 10 m or; a continuous gap of 13 cm from the base of the fence and ground along the entire fence line. Any mesh fencing must have a continuous gap of 13 cm from the base of the fence and ground along the entire fence line.

Proposed Planting

2.13) Shrub beds are proposed to be installed around the site, alongside pollinator-friendly rain garden planting that will be scattered throughout the development to provide additional habitat and biodiversity benefits. In addition, proposed areas of native wildflower-seeded grassland and SuDS wildflower turf will be distributed across the site.

2.14) The wildflower grassland will be seeded using Emorsgate EM1 meadow mix. During the first year of establishment, these areas will be lightly and regularly mown between watering periods to support sward development, with cutting heights gradually reduced from 8 - 10 cm to

approximately 5 cm and mowing carried out around every two months during the first growing season.

2.15) Thereafter, and for all wildflower turf areas, management will consist of one early cut per year before mid-April, after which grasses and wildflowers will be allowed to flower and set seed. A final cut will be undertaken at the end of summer, with all arisings left in situ for approximately two days to allow seed dispersal before removal. Arisings will be composted on site where possible, with any excess material taken to a local authority recycling facility.

Hedgerow Planting

2.16) Hedgerow planting is proposed along the entire western boundary of the site and between selected plots within the development to provide screening and landscape structure. Hedges will be planted in the centre of 0.8 m wide beds, arranged in single rows and set back a minimum of 0.5 m from the kerb. New garden hedges will be maintained at a height of approximately 1.2 m - 1.4 m, with biennial cutting undertaken in late summer or late winter.

2.17) Native boundary hedgerows will be managed at a height of approximately 1.8 m and trimmed bi-annually between the months of October and February. All hedges will be maintained to ensure they do not encroach onto adjacent footpaths or compromise boundary treatments.

Best Wishes

Beth Lewis
Ecologist
Ecological Services Ltd

Signed: *Beth Lewis* **Date:** April 2026

Appendix 1 - Examples of Integrated Boxes



Bee Brick in-Situ



PRO UK Visible Build-In Swift Box



Vivara Pro UK Build-In Half Open Nest Box



Vivara Pro Build-in WoodStone® Bat Box

Appendix 2 - Suggested Bat and Bird Box Locations



specification notes

- Prior to construction on site, protective fencing shall be erected around each hedge, tree or group at a minimum radius from the trunk of the tree of the canopy extent plus 10% (whichever is the greater). No soil, spoil or other material shall be deposited within the fenced areas;
- Underground services to be routed to avoid fenced areas;
- No burning to take place within 10m of the furthest extent of the canopy of trees to be retained on site or on land adjoining;
- The fence shall be kept in constant repair throughout the development work;
- The protective fencing shall be retained in position until completion of the development; should the fence temporarily need to be removed to complete works, then it shall be replaced immediately following completion and at least at the end of each day;
- The fence shall be at least 2.4 metres high, comprising of a scaffolding framework, as in 8.2.2 of BS 5837 (2012), supporting Hericium fencing
- Tree locations are subject to confirmation of engineering and foundation details. Foundations shall comply with guidelines set by structural engineering consultants, and shall accord with the current MRC Standards. Building near 'Tree' and shall accommodate immediate and future impact of tree or shrubs on buildings and their foundations.
- All native species to be sourced from preferably local or at least UK stock;
- Any proposed substitutions, whether species, cultivar, pot size or other specification, must be approved by landscape architect prior to planting;
- Any significant layout changes necessitating revised details (such as new retaining walls casting shade on planting beds) should be reported to the landscape architect;
- All Nursery Stock to comply with BS3936 Part 1:1992 and all subsequent amendments;
- All Landscape operations to comply with BS428:1989 and all subsequent amendments; and
- The supply, planting and aftercare of trees will be in accordance with BS 8545:2014 and no tree to be accepted for planting until it has been shown to be compliant with Table 1 p.21

WATERING
During tree, hedge, shrub, perennial and grass establishment and for duration of maintenance period ensure that sufficient water is applied using a hose to maintain healthy growth. During very dry summer spells, trees to be watered at rate of 25L and shrubs at 15L per plant per week during establishment. Draw back mulch and water with hose. Do not use sprays or sprinklers (except for grass and wildflowers) as these just wet the top of the mulch and do not penetrate the root zone.

• The landscape contractor to make him/herself aware of any underground services prior to planting.

• Any poor site or soil preparation or conditions to be reported to site manager for remediation prior to planting.

SOILS
• Topsoil and subsoil to be stored in separate, non-overlapping mounds and topsoil should be stripped from any areas used for subsoil storage. The minimum amount of compaction should be applied when forming soil storage mounds, they should not be greater than 3m in height and subsoil mounds should be no higher than 4m.

• The protection of topsoil and subsoil for planting areas should accord with the Construction Code for the Sustainable Use of Soils on Construction Sites (DEFRA, 2009), BS 3882:2015 and BS 8545:2014.

• All soil handling (stripping, storage, amelioration and placement) will be carried out in accordance with the approved SRP. Soils will only be imported where a shortfall of appropriate soil is apparent, and the imported soils will be certified in accordance with BS 3882:2015 and BS 8545:2014, and found to be fit for purpose via the soil scientist's interpretive report.

• Soil for rain gardens, in addition to the above specification, to be of minimum permeability 40%, and minimum conductivity 30mV. Refer to Engineer details for SUDS construction details;

• Great care must be taken to preserve existing soil quality and integrity;

• All ground modelling to be to smooth and flowing contours new soil level to be feathered to marry into adjacent levels;

• Soil levels to remain unchanged in RPAs of existing hedges and trees;

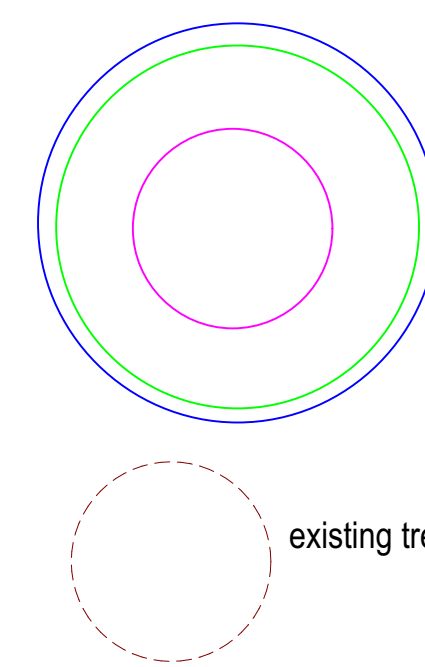
• All planting and grass areas to be cultivated, with prior ripping where necessary to relieve compaction caused by tracking.

- Planting areas to be spread with topsoil to a depth of 300mm for planting beds, above subsoil; soils allowed to settle prior to planting or seeding.
- TREE PITS**
 - Tree pits to be excavated to minimum 1m x 1m x depth of rootball.
 - In sloping ground, maintain horizontal bases and vertical sides with no less than minimum depth throughout. Spike bottoms of pits if compacted with a fork to a depth of 150mm and scarify sides.
- All tree pits to be back filled with 600mm subsoil followed by 300mm topsoil;
- All non-biodegradable wrappings, cages etc. to be completely removed on planting.
- Biodegradable wrappings also to be removed, but may, where root-ball collapse is a concern, be cut and peeled back to no less than one-third rootball height; these peeled back rootball wrappings are to be removed not folded in so as not to impede root development;
- All tags, plastic ties and bamboo canes to be removed from trees.
- In the case of a shortfall of site-won soil being available to plant trees of Extra Heavy Standard (EHS) size or above, imported soils will need to meet the 'sandy loam' natural range and be of slightly acid-neutral pH.
- All trees in grass to be planted in mulched edged bed of 2.4m diameter as above;
- Watering to continue as required throughout first growing season following planting;
- WILD FLOWER GRASSLAND**
 - For new wildflower areas and remedial areas: Wildflower grass seed is to be Emongate EM1 Meadow Mix sown at 4g/m². All to be sown in suitable conditions onto finely cultivated subsoil using shade-aerator; spread with 10-15mm layer of compost, worked into the top layer and watered in (to ensure some nitrogen but low phosphorus);
 - For instant impact if required, in lieu of seeding, WILDFLOWER TURF laid on topsoil as per supplier recommendation; supply option with plant paper in lieu of plastic mesh (suited to both sun and shade) WFT-LANDSCAPE-34
 - SUDS WILDFLOWER GRASSLAND (including raised planters)
 - SUDS TURF from www.wildflowerurf.co.uk laid on topsoil as per supplier recommendation
 - SUDS turf: WFT-SUD-37
- Root barriers GreenBlue Urban Renoot 1000 to be installed to engineer approval;
- Product manufacturer specifications are to be used.
- All avenue trees to be similar height, form and habit;
- Bareroot/containers trees to be staked with short triple stakes a maximum of one quarter the height of the tree above ground, and fixed with biodegradable hessian ties such as 'Natures' available in 30m rolls from GreenBlue Urban.

- All planting beds adjacent grass areas and tree pits in grass to be edged with half round edging tool to separate mulch from grass by forming neat and vertical edges;
- All planting beds but not tree pits to receive peak-free compost during cultivations at a rate of 1m³ to 2m² and slow release fertiliser (e.g. Fison 140) at rate of 25g/plant; beds to be thoroughly watered following planting and before mulching;
- All plants to be received Green-teeth mycorrhizal Root Grow (granules for general planting and root dip for bare root planting), applied according to manufacturer recommendations;
- Mulch to be dark brown mixed conifer bark of particle size 8-35mm and pH range 5.0-7.0 to BS PAS 100:2005; mulch to be laid to 75mm (settled) depth;
- Trees to be mulched with a circle of 1.2m radius where practicable, extending lengthways or widthways as appropriate to retain same area in awkward spaces; mulch to taper to 25cm over the surface of the rootball and to 20mm at the edge of kerbs and hard surfaces;
- All trees in grass to be planted in mulched edged bed of 2.4m diameter as above;
- Watering to continue as required throughout first growing season following planting;
- WILD FLOWER GRASSLAND**
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legend

- proposed shrub beds
- proposed hedge, including rain garden hedges
- proposed lawn turf e.g. 'Shademaster'
- proposed pollinator friendly rain garden planting
- timber raised planter with SUDS wildflower turf
- proposed native wildflower seeded grassland established on site-won topsoils
- SUDS wildflower turf established on site-won topsoils
- timber boardwalk with anti-slip surface and hand rail on one side
- minimum area of 0.9m depth soil to be available to ensure optimum tree growth
- Coed Dinefwr green oak timber bench with armrests



existing trees retained, with existing RPA (pink), future extent of canopy growth (green) and future RPA extent (blue); refer to Arb Tech AIA for further details including Construction Exclusion Zone

Bat Box Locations

Vivara Pro UK Build In Half Open Bird Box Locations

Vivara Pro UK Build In Swift Bird Box Locations

planting specification

Spacing	ID	No.	Latin Name	Scheduled Size	
TREE	Ag	4	Alnus glutinosa	16-18cm	Rootballed
3/1mm	AgS	143	Aucuba japonica 'Salicifolia'	80-90cm, 7L	7 breaks in lower third, bushy
TREE	Al	8	Amelanchier lamarckii	12-14cm	single stem
5m/2	Apl	55	Aster pyrenaeus 'Luteol'	26-40cm, 3L	Bushy
TREE	Alg	5	Acer latarium ssp. ginnala	3.5m fltrd	BR
TREE	AzA	10	Acer x zoeschense 'Annae'	3.5m, 2m clear stem	20-24cm
SPEC	Ba	10	Buddleia alternifolia	60-80cm, 5L	7 breaks in lower third
TREE	BaF-10/12	31	Betula albosinensis 'Fascination'	10-12cm	Rootballed
TREE	BaF-18/20	23	Betula albosinensis 'Fascination'	16-20cm	Rootballed
BE	BE	570	Bergenia Erical	30-40, 3L	Full pot
as shown	Ca-1	312	Corylus avellana	1+2, 80-100cm	BR
2.5/1mm	CaSi	384	Cornus alba 'Sibirica'	60-90cm, 3L	3 breaks in lower third
5/1mm	Cb-H	574	Carpinus betulus	100-125cm, BR	1+2, 5 breaks
2/1m	CJ	97	Colocaster 'John Waterer'	40-60cm, 3L	7 breaks in lower third
as shown	Cm-BR	237	Cornus sanguinea 'Midwinter Fire'	1+2, 80-100cm	BR
4m/2	CMF	337	Cornus sanguinea 'Midwinter Fire'	30-40cm, 3L	Bushy
TREE	Cpr	8	Crataegus prunifolia	16-18cm	Rootballed
as shown	Cs	414	Cornus sanguinea	1+1, 60-80cm	BR
4m/2	CsK	344	Cornus stolonifera 'Kelsey'	30-40cm, 3L	Bushy
4m/2	CWD	380	Choisya divaricata 'White Dazzler'	40-60cm, 3L	7 breaks in lower third, bushy
3m/2	Cxp	149	Choisya x pulcherrima 'Sunset'	40-60cm, 5L	7 breaks in lower third
5m/2	Dw	60	Dryopteris wallachiana	60-80, 7.5L	Full pot
3/1mm	Ee	226	Elaeagnus ebbingei	30-40cm, 3L	3 breaks in lower third
2/1m	Esi	64	Escallonia 'Iveyi'	40-60cm, 3L	3 breaks in lower third
4m/2	GJB	328	Geranium 'Johnson's Blue'	2L	Full pot
8m/2	Gm	60	Geranium macrorrhizum	2L	Full pot
CLIMBER	HDV	338	Hedera colchica 'Dentata Variegata'	60-90cm, 3L	caned, min 2 breaks
4m/2	HHB	41	Hebe 'Midsummer Beauty'	30-40cm, 3L	3 breaks in lower third
4m/2	HHH	275	Hydrangea paniculata 'Pink Diamond'	9cm pot	Full pot
3m/2	HPD-1	272	Hemerocallis 'Stella d'Oro'	40-60cm, 3L	5 breaks in lower third
4m/2	HSO	75	Hemerocallis 'Stella d'Oro'	30-40cm, 3L	Full pot
3m/2	HW	149	Hebe 'Wormist'	30-40cm, 5L	3 breaks in lower third
6m/2	HxH	249	Hebe x pulcherrima 'Sunset'	20-30cm, 3L	Full pot
as shown	la-H	155	Ilex aquifolium	120-150cm, 7L	5 breaks in lower third
8m/2	lae	452	Iris laevigata	20-30, 3L	Full pot
3m/2	Ip	186	Iris pseudacorus	9cm pot	full root ball
6m/2	IRB	419	Impatiens cylindrica 'Red Baron'	3L	Full pot
6m/2	Isb	384	Iris sibirica 'Caesar's Brother'	9cm pot	Full pot
as shown	Lp	51	Lonicera periclymenum	60-90cm, 3L	min 2 breaks, cane removed on planting
4m/2	Ma	387	Malva aquifolium 'Apollo'	20-30cm, 3L	main leader, well branched
4m/2	PBS	258	Phormium 'Bronze Surfer'	40-60cm, 3L	Minimum of 5 spears
8m/2	PDR	438	Persicaria amplexicaulis 'Fats Domino'	20-30, 3L	Full pot
4m/2	Pod	29	Physocarpus opulifolius 'Diablo'	40-60cm, 3L	3 breaks in lower third
3m/2	Pos	117	Polystichum setiferum	30-40, 3L	Full pot
SPEC	PvR-25	164	Rosa canina	Half standard 25L	40-50cm ball
as shown	Rca	177	Rosa 'Kant'	1+2, 80-100cm	BR, 5 breaks in lower third
4m/2	RK	78	Rosa 'Kent'	30-40, 3L	5 breaks in lower third
2m/2	Rn	219	Ribes nigrum 'Ben Sarek'	60-80cm, 5L	bushy, 5 breaks
4m/2	Rob	228	Rosa bonica	30-40, 3L	5 breaks in lower third
4m/2	SIF	133	Spiraea japonica 'Firelight'	30-40cm, 3L	5 breaks in lower third
4m/2	SKS	9	Skimmia 'New Green'	40-60cm, 12L	5 breaks in lower third
2m/2	SR	134	Skimmia 'Revelesian'	30-40cm, 5L	5 breaks in lower third
TREE	UNH	21	Ulmus 'New Horizon'	20-25cm	Rootballed, 2.5m clear stem
4m/2	Vb	99	Verbenia x bonariensis	30-40, 3L	5 breaks in lower third
as shown	Vv	312	Viburnum opulus	1+2, 60-90cm	BR or CG
3m/2	VvA	202	Vernemstrum virginicum 'Fascination'	30-40, 3L	full pot
					3 breaks in lower third

Read with Sheet 1; for Management Plan refer to Sheet 1

Revision C March 2026: Tree soil volumes added to drawing; planting detail clarified; some Acers in smaller beds replaced with Crataegus; Revision B January 2026: Drawing revised for planning, with addition of Pits 143-148 and amended title; Revision A December 2025: Revised SuDS layout



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P: 143-148 and amended title · LDD 88N

job title
Old Dock Road,
Newport
client
Newport City Homes

drawing title
Planting &
Management Plan
Sheet 2 of 2

scale · 1:250 at A0
date · January 2025
drawn · CE
drawing number · 647.01
revision · 0