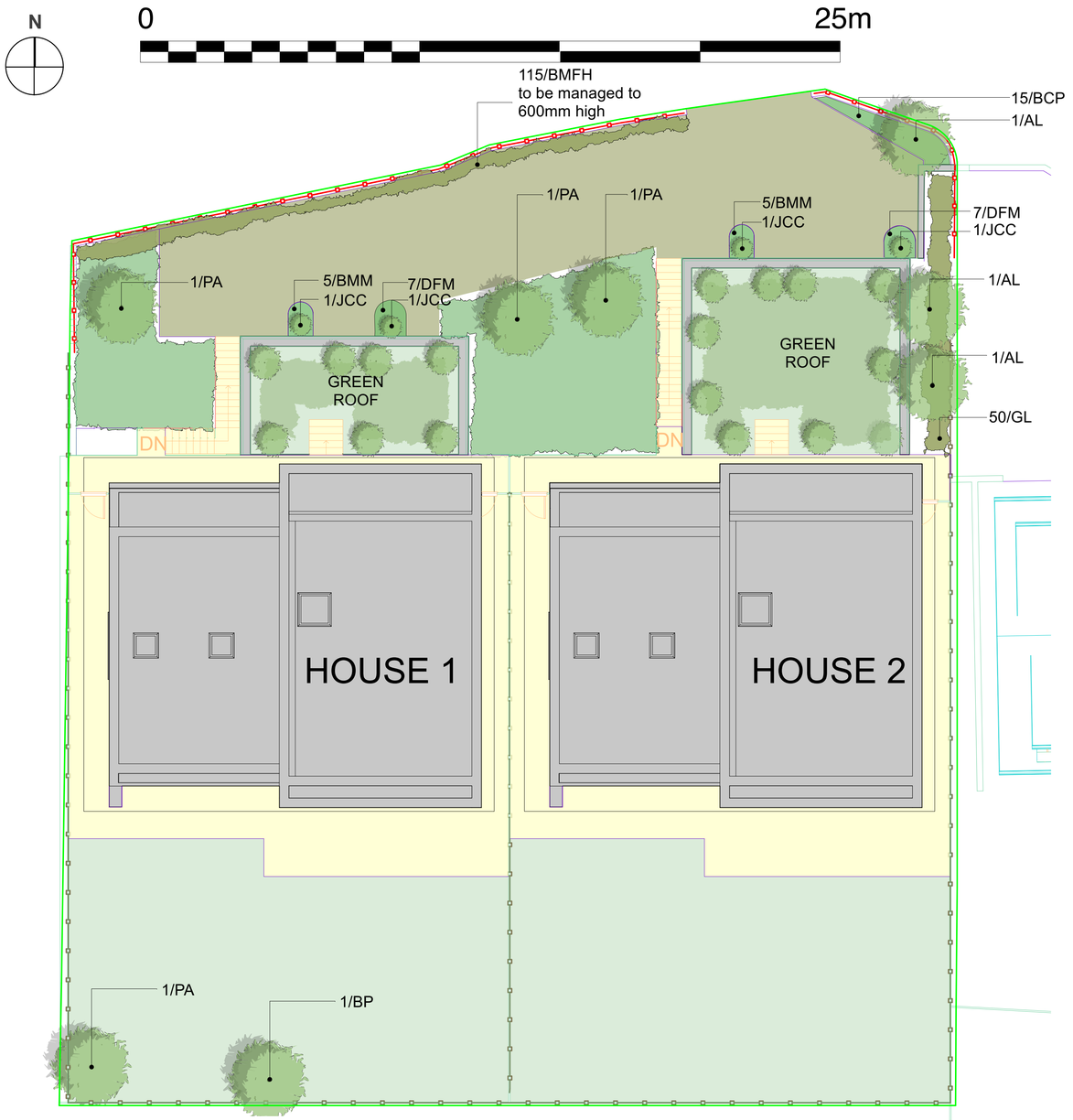


KEY

Soft Landscaping

Proposed Tree Planting

Proposed Hedge Planting

Proposed Shrub/Rain Garden Planting -
At Applicants Discretion

Proposed Intensive Green Roof -
See indicative Bauder detail. Planting species to applicants discretion.
Substrate depth sufficient to plant shrubs and small trees.

Proposed Rear Garden Grass -
Flowering Lawn Mixture EL1

Hard Landscaping

Proposed Drive and Parking -
Golpa Grass or similar approved alternative

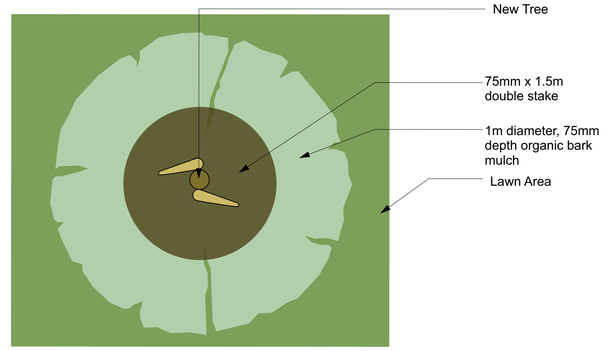
Proposed Paving -
Paving Slabs 600mmx600mm and steps to match

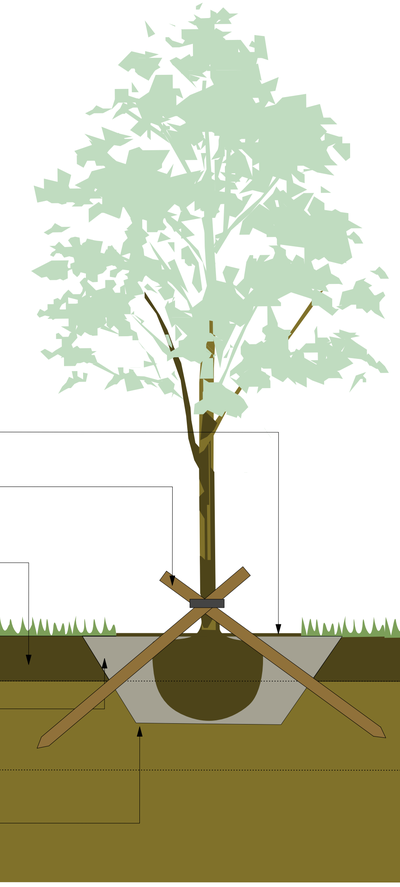
Proposed 1.8m High Close Board Fencing

Proposed 0.5m High Stone Wall

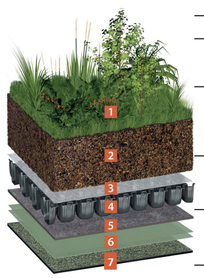
Note: Drawing to be read in conjunction with drainage plan ref:P0377-SK06 Proposed Drainage Layout

Standard Tree Planting





Scale 1:20



Product	Description	Thickness	Weight
1 Intensive Planting	Specifically selected for each individual roof, from fine lawns to woody shrubs and trees.	Thickness and weight will vary with chosen planting	
2 BauderGREEN SUB-IM UK intensive substrate	Light-weight, man-made intensive substrate suitable to support most vegetation types, including trees, shrubs and herbaceous planting.	200mm+	250kg/m²+
3 BauderGREEN FV 125 100 filter fleece	Filtration layer that prevents substrate fines from washing into the drainage and water storage layer.	1mm	0.13kg/m²
4 BauderGREEN DSE 40 drainage board	DSE 40 is a light weight water storage and drainage layer made of 100% recycled HDPE, 40mm thick.	40mm	15.3kg/m² (water filled)
5 BauderGREEN FSM 1100 protection layer	Polyester and polypropylene fibre mix protection layer to prevent mechanical damage to the underlying waterproofing.	8mm	7.1kg/m²
6 PE 02 Foil x 2 separation and slip layer	Polyethylene foil separation and slip layer manufactured from recycled granules.	0.4mm	0.38kg/m²
7 Bauder's underlying waterproofing system	Robust waterproofing is required for this build-up, typically bituminous membrane or Hot Melt systems.	Not Included	Not Included
Green Roof Build up (fully saturated, excludes the waterproofing & vegetation)		**249mm**	**272kg/m²**

Intensive Green Roof Indicative Detail

2) Substrate depth to be 600mm to accommodate large feature shrubs and small trees, minimum depth of 450mm for shrubs and 600mm for small trees.

Proposed Intensive Green Roof -
See indicative Bauder detail. Planting species to applicants discretion. Substrate depth sufficient to plant shrubs and small trees.

TREE PLANTING

Code	Species	Form	Girth cm	Height cm	Root condition	Quantity
AL	Amelanchier Lamarckii	EHS	14-16	425-600	65/85 L	3
BP	Betula pendula	EHS	14-16	425-600	65/85 L	1
PA	Prunus amanogawa	-	-	180-210	10/15 L	4

SHRUB PLANTING

Code	Species	Height/ spread cm	Pot size (Litres)	Habit	Min no. of breaks	No. / m2	Quantity
BCP	Bergenia cordifolia Purpurea	15-20	3L	-	-	5	15
BMM	Brunner 'Mrs Morse'	-	9cm	-	-	7	10
DFM	Dryopteris filix-mas	-	9cm	-	-	7	14
JCC	Juniperus Communis 'Compressa	-	7L	-	-	-	4

HEDGE PLANTING

Code	Species	Height/ spread cm	Pot size (Litres)	Habit	Min no. of breaks	No. / m2	Quantity
BMFH	Buxus macrophylla Faulkner hedge	15-20	3L	-	-	5	115
GL	Griselinia littoralis	40-60	2L	-	-	3	50

Emorsgate EL1 Flowering Lawn Mix sown at 4gms/m2
Wild Flowers

%	Latin name	Common name
4	Galium verum	Lady's Bedstraw
0.5	Leontodon hispidus	Rough Hawkbit
1	Leucanthemum vulgare	Oxeye Daisy
3.7	Lotus corniculatus	Birdsfoot Trefoil
3	Primula veris	Cowslip
4	Prunella vulgaris	Selfheal
3.5	Ranunculus acris	Meadow Buttercup
0.3	Trifolium pratense	Wild Red Clover
20		

Grasses

%	Latin name	Common name
8	Agrostis capillaris	Common Bent
40	Cynosurus cristatus	Crested Dogstail
28	Festuca rubra	Slender-creeping Red-fescue
4	Phleum bertolonii	Smaller Cat's-tail
80		

Note: The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

Revision	Description	Date
-	First issue	4/10/22
A	Second issue	26/2/23
B	Third issue	23/3/23
C	Fourth issue	24/3/23
D	Fifth issue	27/9/23

LANDARB SOLUTIONS

Project:
94 & 96 Allt-yr-yn Avenue, Newport

Description:
Landscape Proposals

Status:
For Planning

Scale:	Drawn I Checked	Date:
1:100 @A1	**DP MP**	**27/09/2023**

Job Number:	Drawing Number:	Revision:
LAS 507	**01**	**D**

Proposed Tree Planting – Management Objectives

- To ensure successful establishment of tree planting
- To maintain newly planted trees to ensure a good survival rate and development
- To minimise competition from grass and weeds

Management Objective	Maintenance Task	Method	Timing	Years
Ensure successful establishment of tree planting	Check stakes and ties	Adjust/replace stakes and ties and remove when the tree is self-supporting (minimum year 3).	Twice yearly, spring and autumn	1,2,3
Keep planted areas free from weeds to reduce competition	Weeding	Weed clearance by hand, hoe or fork. Bark mulch to be used around new trees. Take care not to disturb roots and avoid excessive treading of bed surface.	Monthly from March to October or as required	1,2,3,4,5
Keep planted areas free from weeds to reduce competition	Check and top up mulch	Check and top up mulch to 75mm	As required.	1,2,3,4,5
Avoid damage to trunks of trees	Keep weed free area around tree trunks	Take care during mowing operations. The use of strimmers within 1.2m of tree is not acceptable.	Whenever mowing and strimming operations take place	1,2,3,4,5

1. PLANTING

1.1 All trees to be planted in accordance with BS: 8545:2014, and the Soils and Development TGN. All plants will be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. Planting will not be carried out when the ground is waterlogged, frost bound or during periods of cold drying winds.

1.2 If the formation level is compacted it should be ripped through before topsoiling. Recommended topsoil depths are 450mm for shrubs and 150mm for grass.

Ground Preparation and Tree Pit Excavation

1.3 If the formation level is compacted it will be ripped through before top soiling.

1.4 A ripping tooth will be used for de-compacting subsoil.

1.5 Where necessary existing weeds will be treated with a suitable glyphosate-based herbicide and a suitable period allowed to elapse, as recommended by the manufacturer, for the herbicide to take effect.

1.6 Tree pits will be excavated to at least twice the diameter of the root spread and to be planted in accordance with BS 4428 (1989). The bottom and sides shall be forked to break up the subsoil. All extraneous matter such as plastic, wood, metal and stones greater than 50mm diameter in any dimension will be removed from site.

Planting

1.7 At the time of planting, root ball wrapping shall be removed once the tree and rootball are placed in the planting pit.

1.8 Trees are then to be backfilled with local topsoil previously stripped from the site. Where tree pits are more than 300mm deep, backfilled material shall be consolidated/firmed in 150mm layers.

1.9 Trees shall be well firmed-in and secured with stakes, proprietary rubber tree ties and spacers as below.

1.10 All newly planted trees will be held so that movement at the root collar is minimised until new roots have developed to anchor the tree. Therefore, low staking (75mm dia x 1.5m length) will be used and attached to the tree at

approximately 600mm above ground level. Stakes will be driven 300mm into undisturbed ground before planting the tree, taking care to avoid underground services and cables. The trees will be staked using proprietary rubber ties and must be firmly fixed with a spacing device used to prevent chafing against the tree.

1.11 Trees will be double-staked. Organic bark mulch will be spread to a depth of 75mm, across in a 1.0m diameter circle around all individual trees, tapered to 25mm within 20cm of the stem, ensuring that desirable groundcover plants (where present) are not buried, and making sure not to build up around the root flare.

1.12 Shrubs are to be set out as shown on the drawing and pit planted into the prepared soil at the specified centres with minimal disturbance to the rootball and well firmed in. Spread ornamental pine bark mulch to a depth of 75mm across all new planting areas, ensuring groundcover plants are not buried.

1.13 All trees and shrubs shall be watered in at the end of each day of planting.

Maintenance during first growing season

1.14 All dead, dying or diseased trees will be replaced with trees of similar size and species. If the failure of the tree is due to disease and the disease is considered likely to re-occur then an alternative species may be used as replacement if agreed with the LPA.

1.15 The site is to be visited throughout the year to undertake the following operations:

1.16 Weed clearance: All tree planting areas will be kept weed free by hand weeding.

1.17 Checking trees: All tree ties and stakes will be checked and adjusted if too loose, too tight or if chafing is occurring. Any broken stakes will be replaced.

1.18 Formative pruning: Any damaged shoots/branches will be pruned back to healthy wood. Trees will be pruned in accordance with good horticultural practice (BS: 3998) to maintain healthy well-shaped specimens.

Watering during first growing season

1.19 The requirement for watering of newly planted trees will generally be dependent on weather conditions during the first growing season following planting. In a dry season watering may be required on a fortnightly basis from immediately after

planting until the end of the growing season, but in a wet season watering may not be required at all. Therefore, trees shall be monitored regularly by test digging down to root level to assess the water content of the soil, with watering undertaken as required to ensure that the soil is at field capacity 2-3 days after watering.

5-Year Management Programme

1.20 The following management schedule will be adhered to in respect of post tree planting management.

1.21 Tree planting will be checked twice yearly, in spring and autumn, for signs of stress, pests, disease or any structural or physiological defects. Checks will also ensure the post planting management has been carried out and any remedial measures required or any changes in management required as the tree establishes and grows.

2. GRASS

Preparation

2.1 The area to be seeded will be cultivated to a depth of 100mm removing all weeds, debris and stones over 25mm diameter. The surface will be raked to smooth flowing contours with a fine tilth, incorporating pre-seeding fertiliser at 70 g/m2.

Seeding

2.2 Grass seed will be sown in accordance with BS 4428 (1989), and will be sown from April to May or from September to October, during calm weather and not when the ground is frost bound or waterlogged. Seed will be sown in two equal sowings in transverse directions at 4g/m2 for EL1 flowering lawn mixture. After sowing the seed will be lightly raked to create intimate contact with the soil.

Amenity Grass Cutting

2.3 When newly seeded areas reach 40mm they will be lightly rolled and cut to a height of 30mm. All arisings will be removed. Any bare patches will be made good at this time. Seeded areas shall be cut for a second time when the sward reaches 50mm high.

3. BAUDER INTENSIVE GREEN ROOF

3.1 Green roof to be installed by Bauder contractors as per Bauders installation guide for intensive green roofs.