

PLANT SCHEDULE					
TREES.					
Planted at marked position each with two post and timber crossbar installed with arb strapping and clear spiral rabbit guard. Multi-stem trees planted at marked position each with a single timber stake driven at 45° and installed with Arb strapping.					
QUANTITY	SPECIES	HEIGHT cm	GIRTH cm	FORM	TYPE
1 No.	Acer campestre Elsrijk	350-450cm	12-14cm	Std	CG
3 No.	Malus 'Evereste'	300-350cm	-	Multi-stem	CG 90lt
1 No.	Prunus cerasifera 'Nigra'	350-450cm	12-14cm	Std	CG
3 No.	Sorbus aucuparia	250-350cm	10-12cm	Std	CG
UK NATIVE MIX SPECIES HEDGE - Total length of mixed hedge throughout the scheme: 105.1m					
Double staggered row - 5 per metre for bare-root stock. All whip planting to be installed with Mint Rainbow Treelife Biodegradable Vole Spiral Guard and 900mm canes with the exception of Ilex aquifolium & Taxus baccata which should be installed with plastic mesh guard and sawn timber stake. Dressed with 75mm organic bark mulch each at base.					
PERCENTAGE	QUANTITY	SPECIES	HEIGHT cm	SIZE	TYPE
20%	105 No.	Acer campestre	60-80	-	BR
30%	158 No.	Crataegus monogyna	60-80	-	BR
5%	26 No.	Ilex aquifolium	30-40	2lt	CG
20%	105 No.	Malus sylvatica	60-80	-	BR
5%	26 No.	Rosa canina	40-60	-	BR
20%	105 No.	Taxus baccata	30-40	2lt	CG
Total: 525 No. (Double staggered row - 5 per metre)					
SHRUBS & HERBACEOUS PERENNIALS.					
QUANTITY	SPECIES	HEIGHT cm	SIZE	TYPE	SPACING
65 No.	Alchemilla mollis	20-30	3lt	CG	600
15 No.	Bergenia cordifolia 'Silverlicht'	30-40	2lt	CG	400
47 No.	Erysimum 'Bowles's Mauve'	20-30	2lt	CG	600
7 No.	Heuchera 'Caramel'	15-20	2lt	CG	400
7 No.	Heuchera 'Plum Pudding'	15-20	2lt	CG	400
13 No.	Hydrangea paniculata Little Lime	30-40	5lt	CG	800
37 No.	Lavandula angustifolia 'Munstead'	20-30	2lt	CG	400
38 No.	Oenothera lindheimeri 'Siskiyou Pink'	15-20	2lt	CG	400
22 No.	Oenothera 'Whirling Butterflies'	15-20	2lt	CG	400
5 No.	Osmorhiza burkwoodii	30-40	3lt	CG	800
15 No.	Pittosporum tenuifolium 'Golf Ball'	30-40	3lt	CG	600
1 No.	Pittosporum tenuifolium Tom Thumb	30-40	3lt	CG	800
14 No.	Rosa Kent	30-40	2lt	CG	600
27 No.	Sedum telephium 'Matrona'	20-30	2lt	CG	600
28 No.	Stachys byzantina 'Big Ears'	15-20	2lt	CG	400
21 No.	Verbena bonariensis 'Lollipop'	20-30	2lt	CG	400
32 No.	Veronica albaicans	20-30	2lt	CG	600
GRASSES					
QUANTITY	SPECIES	HEIGHT cm	SIZE	TYPE	SPACING
18 No.	Anemathelle lessoniana	40-60	2lt	CG	800
7 No.	Carex divulsa	20-30	2lt	CG	600
9 No.	Luzula Snowflake	20-30	2lt	CG	400
28 No.	Stipa tenuissima	15-20	2lt	CG	600
FERNS					
QUANTITY	SPECIES	HEIGHT cm	SIZE	TYPE	SPACING
23 No.	Dryopteris erythrosora 'Brilliance'	30-40	2lt	CG	600
BULBS					
QUANTITY	SPECIES	TYPE	SPACING		
134 No.	Allium 'Purple Sensation'	Bulb	Randomly scattered		
200 No.	Glaudiolus murelae	Bulb	Randomly scattered		

TREE PIT SUNDRIES / SPECIFICATION.

Tree pit ancillaries available from Green Blue Urban: <http://www.greenblue.com/gbu/> (or similar)

5 x Large kits required in total:

Staking System:
5 x Double round stake kits with half round cross bar, rubber Arb block and strapping.

Tree Pit Irrigation System:
5 x RootRain: The RootRain is a medium capacity irrigation system with a fixed grid inlet, particularly suited to open space and verge tree planting in sotscape.

TREE & SHRUB PLANTING PROJECTED CANOPY COVER AREA SCHEDULE					
QUANTITY	SPECIES	HEIGHT cm (@ PLANTING)	GIRTH cm (@ PLANTING)	PROJECTED CANOPY COVER AREA m² (@ 25yrs)	
1 No.	Acer campestre subsp. Elsrijk	350-450	Std	12-14	CG 26.60 m²
1 No.	Prunus cerasifera 'Nigra'	350-450	Std	12-14	CG 19.8 m²
3 No.	Sorbus aucuparia	250-350cm	Std	10-12cmg	CG 11.03 m²

GRASSWORKS SCHEDULE	
GENERAL LANDSCAPE TURF	
Total Turf Areas Combined: Approx. 700 m²	
Pro Turf 3 (With Rye economy) - DLF TRIFOLIUM - or similar approved	
30% Stravinsky - perennial ryegrass	
45% Rossinante - strong creeping red fescue	
25% Wagner - chewings fescue	
WILDFLOWER GRASS MEADOW	
Total Area: Approx. 180 m²	
Product code: Meadowscape Pro-Landscape-34 - WILDFLOWER TURF LTD (wildflower@wildflowerturf.co.uk)	
Mix made up of 34 UK native wildflowers and grasses, minimum 75% wildflowers.	
[NON REGULAR MANAGEMENT OF GRASSLAND PROPOSED]	
Wild Flowers - 75%	Common name
Autumn Hawkbit	(Sorzoneroide autumnalis)
Belony	(Stachys officinalis)
Birdfoot Trefoil	(Lotus corniculatus)
Bladder Campion	(Silene vulgaris)
Cats Ear	(Hypochaeris radicata)
Common Knapweed	(Centauria nigra)
Common Scirp	(Rumex acetosa)
Common Vetch	(Vicia sativa ssp. segetalis)
Common Toadflax	(Linaria vulgaris)
Cowslip	(Primula veris)
Field Scabious	(Knautia arvensis)
Greater Hawkbit	(Leontodon hispidus)
Lady's Bedstraw	(Galium verum)
Meadow Buttercup	(Ranunculus acris)
Meadow Cranesbill	(Geranium pratense)
Meadowsweet	(Filipendula ulmaria)
Musk Mallow	(Malva moschata)
Ox Eye Daisy	(Leucanthemum vulgare)
Perforate St Johns Wort	(Hypericum perforatum)
Ragged Robin	(Lychnis flos-cuculi)
Red Campion	(Silene dioica)
Ribwort Plantain	(Plantago lanceolata)
Salad Burnet	(Sanguisorba minor)
Self-heal	(Punella vulgaris)
Tufted Vetch	(Vicia cracca)
Wild Carrot	(Daucus carota)
Wild Marjoram	(Origanum vulgare)
Wild Red Clover	(Trifolium pratense)
White Campion	(Silene latifolia)
Yarrow	(Achillea millefolium)
Yellow Rattle	(Rhinanthus minor)
Grasses - 25%	Common name
Crested Dogstail	(Cynosurus cristatus)
Sheep's Fescue	(Festuca ovina)

KEY soft landscape

- EXISTING RETAINED TREES
Retained trees and canopy boundary of existing trees, shrubs & hedges as positioned following topographical survey of the existing site & arboricultural survey
- PROPOSED TREE PLANTING
Standard tree planting proposed. Minimum 600mm depth of specific purpose free draining topsoil to BS 3882:2015 for tree planting
[see Planting Schedule for further details]
- PROPOSED TREE PLANTING
PROJECTED CANOPY AT 25 YEARS FROM PLANTING
Proposed canopy radius and canopy m² shown by dashed line
- PLANTING BEDS
Native & Ornamental planting to include species of value to wildlife & pollinators, including species for foraging bat habitat. Minimum 450mm depth of specific purpose free draining topsoil to BS 3882:2015 for shrub planting etc. [see Planting Schedule for further details]
- HEDGE PLANTING - MIXED UK NATIVE SPECIES
Staggered double rows. 5 plants per linear metre for bare-root stock. 4 plants per linear metre for staggered double row container grown stock. Minimum 450mm depth of BS 3882:2015 for hedge planting
[see Planting Schedule for further details]
- GRASSWORKS - PROPOSED LANDSCAPE TURF
Areas of proposed amenity grass turf installed upon a minimum of 150mm depth of specific purpose free draining topsoil to BS 3882:2015. Soil leveled and prepared to a fine tilth prior to turf laying
[see Planting Schedule for further details]
- GRASSWORKS - PROPOSED WILDFLOWER GRASS SWATH
[Wildflower Turf - Meadowscape Pro™ system]
Meadowscape Pro-Landscape-34 Area: 110 m². Mix made up of 34 UK native wildflowers and grasses, minimum 75% wildflowers.
[see Planting Schedule for further details]

hard landscape

- HARD LANDSCAPE - PROPOSED NATURAL STONE PAVING FOR PATHWAYS & TERRACE AREAS - SANDSTONE
[NON PERMEABLE]
Finish: Buff colour
Unit: 600 x 400 x 20mm
Laid: Staggered
Build-ups & Specification to project engineers specification
- HARD LANDSCAPE - PRIVATE DRIVEWAY BLOCK PAVING
Proposed Block Paving Driveway
[NON PERMEABLE]
Manufacture: Tobermore
Product: Tegula
Unit: 208 x 173 x 60mm & 173 x 173 x 60mm
Finish: Brindle
Laid: Stretcher
Build-ups & Specification to project engineers specification
- HARD LANDSCAPE - GRANITE SETT THRESHOLDS & EDGE
Proposed granite sett threshold
Build-ups & Specification to project engineers specification

boundary treatment

- F1. 1.2m treated timber square post and 2 rail fence system with galvanised Stock Mesh affixed for boundary pet security.
- F2. 1.8m Closeboard fence system of treated timber with timber posts and gravel boards
- F3. 1.0m Stock fence of treated round timber posts with galvanised Stock Mesh affixed
- G2. Treated timber 5 Bar Gate - 6ft. Double [green timber]

All works to conform to BS 5837:2012 Trees in relation to design, demolition and construction. Plus conforming to arboricultural method statements.

BS 4428:1989 Code of practice for general landscape operations (excluding hard surfaces)

BS 8545:2014 Trees: from nursery to independence in the landscape. Recommendations ASTM D5268 - 13 Standard Specification for Topsoil Used for Landscaping Purposes

NOTE:
This drawing indicates design arrangement only. All works to be undertaken in accordance with best practice and all current BS & Building Regulations. Do not scale from drawing. Use figured dimensions only after checking.
Drawing to be printed and read in colour only.

Client: ALLEN DAWSON

Project Name:
TOWNHOUSE FARM
CHURCH LANE
ARDINGLY
HAYWARDS HEATH
WEST SUSSEX

Drawing title: REVISED APPLICATION - Proposed Landscape Plan Inc. ecological enhancements

Drawing no: PJC.1322.002

Scale: 1:200 at A2

Rev: 15.10.2024

Designed by: TR

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ECOLOGICAL ENHANCEMENT - LOG / BRASH PILE
Installation of: 1 No. dead wood habitat piles / natural refugia within close proximity to the edges of retained suitable terrestrial habitat (i.e. mature shrubs) in order to provide additional foraging and hibernating opportunities for reptiles and other protected and notable species including amphibians and stag beetles etc.

ECOLOGICAL ENHANCEMENT
Installation of: 1 No. Insect boxes (Schwegler Clay and Reed Insect Block or similar) will be installed within the planted areas to increase available nesting opportunities for insects. The boxes should be installed close to vegetation in a sheltered, sunny position where possible.

ECOLOGICAL ENHANCEMENT - BAT BOXES
2 No. Schwegler 2FN, Kent Bat Boxes or similar bat boxes will be installed at suitable positions on to the new dwellings within the Site to increase the roosting opportunities for bats. Any artificial roosting features should be placed between 3m and 6m above ground in a variety of locations at slightly different heights and preferably positioned facing a southerly or south-easterly direction, so that they receive sun for part of the day.

It is also recommended that a number of hanging tiles on the dwellings be lifted where possible (approximately 5 on each building) to increase the roosting opportunities within the site for crevice dwelling species. The tiles can be lifted by placing a small amount of concrete on the tile below to ensure there is a gap for crevice dwellers to crawl into.

MAINTENANCE of bat boxes is not required. However, a ground based visual inspection of the bat boxes may be required annually to ensure no vandalism or theft has occurred. If a closer inspection of the bat box is required, a suitably licensed bat ecologist may need to be consulted. Any missing and/or damaged bat boxes or tubes shall be replaced on a like-for-like basis. Please note that any methods involving the moving and/or disturbance to bats and/or their roosts will require a licence from Natural England.

ECOLOGICAL ENHANCEMENT - BIRD BOXES
2 No. generalist cavity-nesting bird boxes (i.e. Vivara Pro Seville or similar) to be installed at suitable positions on to the new dwellings within the Site, in order to increase the number of nesting opportunities within the Site.

The direction of the entrance holes shall be positioned with a clear flight path. Crucially, the boxes shall also be positioned where they are sheltered from the prevailing wind, rain and strong sunlight as much as possible. If possible, the boxes shall be positioned with a slight downward angle to provide further protection from the rain. All artificial nesting features should be positioned between 1.5-3m high so as to be out of reach of predators.

ANNUAL MAINTENANCE of bird nest boxes will be undertaken between November and January to remove any old nests and debris to reduce parasite build-up and prevent the spread of disease. All debris shall be removed with the inside cleaned using boiling water and left to dry naturally. The use of insecticides or detergents must be avoided. Any missing and/or damaged bird nest boxes shall be replaced on a like-for-like basis. Bird boxes will be checked to ensure they are secure and still facing the same orientation as when they were installed. If they are not secure, they will be removed and re-secured.

ECOLOGICAL ENHANCEMENT
Installation of: 1 No. Insect boxes (Schwegler Clay and Reed Insect Block or similar) will be installed within the planted areas to increase available nesting opportunities for insects. The boxes should be installed close to vegetation in a sheltered, sunny position where possible.

ECOLOGICAL ENHANCEMENT - BIRD BOXES
Installation of: 2 No. generalist cavity-nesting bird boxes (i.e. Vivara Pro Seville or similar) to be installed at suitable positions on to buildings within the Site, in order to increase the number of nesting opportunities within the Site.

ECOLOGICAL ENHANCEMENT
Installation of: 2 No. Schwegler 2FN Special woodcrete, Kent Bat Boxes or similar Bat Box installed at a height of between 3 to 6m facing South East with good clear flight path. [Avoid direct exposure to road if possible]

ECOLOGICAL ENHANCEMENT
Creation of additional linear habitat (hedgerows) to provide additional commuting opportunities for bats.

ECOLOGICAL ENHANCEMENT
New UK Native standard trees will be incorporated in to the soft landscaping scheme. These trees will provide additional foraging potential for bats and birds. The use of nursery trees will reduce the time period between planting and full establishment, thereby delivering the necessary compensatory habitat within a quicker time-frame.

ECOLOGICAL ENHANCEMENT HEDGEHOGS
A hedgehog house should be incorporated into the developed site, positioned in a shady corner.