



General Layout Plan (NTS)

Herbaceous/ Perennial/ Grasses Planting Schedule

Plant Name	Root condition	Size	Propagation	Planting Mix A (m2)	Planting Mix B (m2)	Density (m2)	Total Number Plants
Achillea 'Summer Berries'	C	1L	V		4	7	28
Alchemilla mollis	C	1L	S	1		8	8
Astrantia major 'Hudspen Blood'	C	1L	V		5	6	30
Bergenia 'Beethoven'	C	1L	V		4	5	20
Bergenia 'Silberlicht'	C	1L	V	2		6	12
Carex ornithopoda 'Variegata'	C	1L	V	3		5	15
Euphorbia amygdaloides 'Robbiae'	C	1L	V	1	2	6	18
Geranium macrorrhizum	C	1L	V	2	4	8	48
Geranium Rozanne	C	1L	V	1	5	8	48
Heuchera 'Ebony and Ivory'	C	1L	S or V	1	4	6	30
Iris reticulata	C	1L	V	2		8	16
Liriope muscari 'Big Blue'	C	1L	V		2	7	6
Paeonia lactiflora 'Barbara'	C	5L	V		3	3	9
Penstemon 'Anderken an Friedrich Hahn'	C	1L	V		4	7	28
Persicaria affinis 'Superba'	C	2L	S or V	1		4	4
Pulmonaria officinalis 'Sissinghurst White'	C	1L	V	1		8	8
Salvia nemorosa 'Ostfriesland'	C	3L	V		4	4	16
Sedum 'Ruby Glow'	C	2L	V		2	5	10
Stipa tenuissima	C	1L	S or V		3	6	18
Verbena bonariensis	C	1L	V		2	6	12
Totals				15	48		384

Herbaceous, Perennials and Grasses/ Shrubs Proportion of Mix.

	Total Area	Shrubs (%/ m2)		Herbaceous Perennials and grasses (%/m2)		Total (m2)
Unit	(m2)	%	(m2)	%	(m2)	
Planting Mix A (Partial Shade/ Shade Mix)	38	60	23	40	15	38
Planting Mix B (Sun/ Partial Shade)	95	50	48	50	48	95

Meadow Seed Mix

Seed mix EM3 (by Emorsgate Seeds).
Sowing rate 4g/m2
Method and maintenance as per Emorsgate Seeds Recommendations)

Mixture Breakdown

Grasses (total 80%)
AGROSTIS CAPILLARIS
Crested Dogstail 8%
CYNOSURUS CRISTATUS
Crested Dogstail 40%
FESUCA RUBRA
Slender Creeping Red Fescue 28%
PHLEUM BERTOLONII
Smaller Cat's Tail 4%

Wildflowers (Total 20%)
ACHILLEA MILLEFOLIUM
Yarrow 0.5%
BETONICA OFFICINALIS - (STACHYS OFFICINALIS)
Betony 0.6%
CENTAUREA NIGRA
Common Knapweed 2.5%
CENTAUREA SCABIOSA
Greater Knapweed 0.8%
DAUCUS CAROTA
Wild Carrot 1.0%
FILIPENDULA ULMARIA
Meadowsweet 0.6%
GALIUM ALBUM - (GALIUM MOLLUGO)
Hedge Bedstraw 0.6%
GALIUM VERUM
Lady's Bedstraw 2.0
KNAUTIA ARVENSIS
Field Scabious 0.4%
LEONTODON HISPIDUS
Rough Hawkbit 0.3%
LEUCANTHEMUM VULGARE
Oxeye Daisy 0.6%
LOTUS CORNICULATUS
Birdsfoot Trefoil 0.5%
ORGANUM VULGARE
Wild Marjoram 0.1%
PLANTAGO MEDIA
Hoary Plantain 0.5%
POTERIUM SANGUISORBA - (SANGUISORBA MINOR)
Salad Burnet 1.0%
PRIMULA VERIS
Cowslip 0.4%
PRUNELLA VULGARIS
Self Heal 2.0%
RANUNCULUS ACRIS
Meadow Buttercup 2.5%
RHINANTHUS MINOR
Yellow Rattle 1.0%
RUMEX ACETOSA
Common Sorrel 0.6%
SILENE DIOICA
Red Campion 1.2%
SILENE FLOS-CUCULI - (LYCHNIS FLOS-CUCULI)
Ragged Robin 0.2%
TRIFOLIUM PRATENSE
Wild Red Clover 0.1%

Shrub Planting Schedule

Plant name	Height (cm)	Root Condition	Size (L)	Habit	Breaks	Planting Mix A (m2)	Planting Mix B (m2)	Density (per m2)	Total Number Plants
Aucuba japonica 'Variegata'	20-30	C	3L	Bushy	3	4		3	12
Azalea 'Diamond White'	40-60	C	3L	Bushy	3		2	3	6
Choisya temata 'White Dazzler'	30-40	C	3L	Bushy	4	1		3	3
Escallonia 'Apple Blossom'	40-60	C	3L	Bushy	4		4	3	12
Euonymus fortunei 'Emerald Gaiety'	20-30D	C	3L	Bushy	7		4	4	16
Euonymus fortunei 'Silver Queen'	20-30D	C	2L	Bushy	3	2		2	4
Hebe 'Red Edge'	30-40	C	3L	Bushy	5	1		4	4
Hydrangea macrophylla 'Nikko Blue'	40-60	C	3L	Branched	5		4	4	16
Hypericum 'Hidcote'	30-40	C	3L	Bushy	5	2		4	8
Hypericum x moserianum	30-40	C	3L	Bushy	5	2		4	8
Lavendula angustifolia 'Munstead'	20-30	C	3L	Bushy	5		5	3	15
Lavendula 'Hidcote'	20-30	C	3L	Bushy	5		2	3	6
Lonicera pileata	30-40	C	3L	Bushy	2	1		3	3
Philadelphus 'Belle Etoile'	40-60	C	5-7.5L	Branched	5		5	2	10
Pieris 'Forest Flame'	20-30	C	3L	Bushy	3	3		3	9
Rosa 'Kent'	40-60	C	4L	Bushy			7	3	21
Rosa 'Moonlight'	40-60	C	3L	Bushy	4		8	3	24
Sarcococca humilis	20-30	C	3L	Bushy	7	1		3	3
Skimmia x confusa 'Kew Green'	30-40	C	5L	Bushy	3	2		4	8
Viburnum davidii	40-60	C	3L	Bushy		2	4	3	18
Viburnum x bodnantense 'Dawn'	80-100	C	10L	Branched	4		3	1	3
Viburnum x juddii	60-80	C	10L	Branched	5	2		2	4
Totals						23	48		213

Tree Planting Schedule

Name	Form	Age	Girth (cm)	Height (cm)	Clear stem (cm)	Root condition	Breaks	Nr of Trees
Acer griseum	Standard (extra heavy)	3x	12-14	350-425	175-200	RB	5	1
Cedrus atlantica 'Glauca	Leader with Laterals			500+		C		1
Crataegus laevigata 'Paul's Scarlet'	Standard (extra heavy)	3x	16-18	425-600	175-200	RB	5	5
Malus 'Red Sentinel'	Standard (extra heavy)	3x	14-16	400-450	min 200	RB	5	4
Prunus Avium	Standard (extra heavy)	3x	14-16	400-450	min 200	RB	5	2
Quercus robur	Standard (extra heavy)	3x	14-16	400-450	min 200	RB	5	1
Sequoiadendron giganteum	Leader with Laterals		45L	400		C		2
Sorbus aria	Standard (extra heavy)	3x	14-16	400-450	min 200	RB	5	2
Total								18

Mixed Species Hedgerow Planting Schedule

Plant name	Height (cm)	Root Condition	Form	Breaks	Length (lin.m)	Plants/ lin.m	Total No. of Plants
Mixed Species Hedgerows (Double staggered row at 300mm centres) New Hedgerows and 'Gapping' Up Existing							
Corylus avellana	60-80	B	Transplant	3	6	7	42
Crataegus monogyna	60-80	B	Transplant	3	35	7	245
Ilex aquifolium	60-80	C (3L)	Leader and laterals	3	10	7	70
Prunus spinosa	60-80	B	Transplant	3	4	7	28
Rosa canina	60-80	B	Transplant	3	2	7	14
Total					57		399

Single Species Hedgerow Planting Schedule

Plant name	Height (cm)	Root Condition	Habit	Breaks	Density/ lin m	Length (m)	Total No. Plants
Single Species Hedgerows (Double staggered row at 300mm centres)							
Ecalonia 'Iveyi'	40-60	C (3L)	Bushy	3	7	50	350

All new hedgerows to include post and 3 wire fencing where no other adjacent fencing type has been specified.

Bulb Planting Schedule

Plant Name	Form	Grade	Density	Total Area	% of Area	No of Bulbs
Galanthus nivalis	Bulb	5/6	15/m2	32	40%	192
Hyacinthoides non-scripta	Bulb	5/6	15/m2	32	40%	192
Narcissus 'Tete a Tete'	Bulb	10/12	15/m2	32	20%	96

Trees and shrubs planted shall comply with BS.3936 (Specification of Nursery Stock) and shall be planted in accordance with BS.4428 (General Landscape Operations) and BS8545:2014 'Trees from nursery to dependence in the Landscape'

Bare root and root-balled stock to be planted in the dormant season.
All planting stock to be clearly labelled on delivery with the full botanical name. Plant stock to be approved prior to delivery to site and planting and trees be set out by Landscape Architect. Minimum depths of topsoil (Turf -150mm) (Shrubs- 300mm) Hedgerows (350mm) over free drainage subsoil. Tree pits to be dug 400mm larger than rootball in any direction. Organic soil improvement compost to be dug into all planting areas and used at 1cubic m per 10m2. All planting beds to be mulched in 75mm depth. medium grade bark mulch immediately after planting. Any queries in relation to planting schedules, layout or planting stock to be raised with Landscape Architect.
Suitable tree root barriers to be used on boundaries with hard-standing, walling, services, proposed and existing buildings.

5 Year Maintenance Schedules

Maintenance Operation	Frequency per annum	Years applicable	Indicative timing of operation (monthly)											
			J	F	M	A	M	J	J	A	S	O	N	D
Inspections														
Maintenance inspection.														
Tree hazard and condition survey of existing trees by an arboriculturalist every 3 to 5 years.		1,3,5												
Tree hazard and condition survey of proposed trees.	1	1 to 5												
Site Cleansing														
Fortnightly cleansing to all public areas within the site.	26	1 to 5												
Graffiti removed as soon as possible.	As required	1 to 5												
Fly-tipping to be removed as soon as possible.	As required	1 to 5												
Weed clearance to all public pathways.	Monthly	1 to 5												
Jet wash all public footways to maintain in a safe condition.	1	1 to 5												
Repairs and maintenance tosurfacing														
Repairs to footpath surfacing.	1	1 to 5												
Existing Trees														
Selective pruning as required to main visual amenity and remove any crossing or damaged limbs.	As required	1 to 5												
Thin existing woodland groups to remove dead, dying or dangerous trees as well as selective removals of healthy trees to allow trees of better quality and visual amenity space to thrive.														
Annual inspection of trees to ensure roots are not causing damage to nearby foundations, paving and roads.														
Replacement tree planting (if recommended within tree inspection reports).	As required	1 to 5												
Proposed Tree Planting														
Check guys, stakes and tree ties monthly and replacing as required. Adjust ties twice annually*. Refirm trees as required.	12	1 to 3		*							*			
Maintain mulch around base of trees to a depth of 75mm	As required													
Watering as required during prolonged drought	As required	1 to 5												
Carry out glyphosate spot spray to vegetation within 0.5m of the base of trees.	2													
Replacement of failed tree planting.	As required	1 to 3												
Formative pruning to maintain health and vigour.		5												
Hedgerows														
Check protective fencing or spiral guards monthly and repair/replace as required.														
Monthly hand weed around hedgerows surrounding ornamental planting beds.	12	1 to 5												
Watering as required during prolonged drought.	As required	1 to 5												
Replacement of areas of failed planting in the next available planting season.	As required													
Re-firming new planting as required.	As required													
Fertiliser application in spring and autumn as required.	2	1 to 3												
Trim/face up hedgerows twice annually to maintain form, encourage bushy growth and allow clear and safe walking and driving routes and clear sightlines. Where within property curtilage only the outward facing side to be faced up.	2	1 to 5												
Proposed Amenity Grass														
First cut to grass to be to 75mm height and arisings removed from site.	1	1 to 5												
Fortnightly cut (35mm) with arisings removed from site.	25	1 to 5												
Cultivate and re-seed as required.	As required	1 to 5												
Spring and autumn fertiliser application.	2	1 to 5												
Weed control. Spot treatment to remove noxious weeds.	1	1 to 5												
Proposed Spring Bulbs														
Fortnightly cut (35mm) during the growing season 6 to 8 weeks after flowering.	21	1 to 5												
Proposed Wildflower Meadow														
Annual Cut and collect of meadow in October	1	1 to 5												
Removal of noxious weeds (Dock/ Thistles)	1	1 to 5												

Maintenance to be carried out in accordance with good horticultural practice to ensure tree, plant, seed and turf establishment. Continued maintenance to be carried out to ensure plants and trees continue to thrive and grow naturally dependant on the individual species.

KEY

	Operations to be carried out
	Bird nesting season
	Operations not to be carried out

Rev A: Layout Amend- Additional Trees 13.12.2018

Project:
Bryn Y Groes, Gresford (Phase 5)

Drawing Title:
Planting and Maintenance Schedules

Scale: NTS	Date: 02/10/2018
Status: Planning	Drawn: ES Checked: TS
Drawing Number: 029.01.16	Revision: -