



General Layout Plan (NTS)

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

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		2	7	14
Alchemilla mollis	C	1L	S	1		8	8
Anemone huphensis 'September Charm'	C	1L	V	1		6	6
Astrantia major 'Hudspen Blood'	C	1L	V		2	6	12
Bergenia 'Beethoven'	C	1L	V		2	5	10
Bergenia 'Silberlicht'	C	1L	V	1		6	6
Carex ornithopoda 'Variegata'	C	1L	V	2		5	10
Dryopteris cycadina	C	1L	S	1		6	6
Euphorbia amygdaloides 'Robbiae'	C	1L	V	1	1	6	12
Geranium macrorrhizum	C	1L	V	2	2	8	32
Geranium Rozanne	C	1L	V	2	2	8	32
Heuchera 'Ebony and Ivory'	C	1L	S or V	2	2	6	24
Iris reticulata	C	1L	V	2		8	16
Liriope muscari 'Big Blue'	C	1L	V		1	7	6
Paeonia lactiflora 'Barbara'	C	5L	V		2	3	6
Penstemon 'Andenken an Friedrich Hahn'	C	1L	V		2	7	14
Persicaria affinis 'Superba'	C	2L	S or V			4	8
Persicaria amplexicaulis 'Rosea'	C	1L	V	2		7	14
Pulmonaria officinalis 'Sissinghurst White'	C	1L	V	2		8	16
Salvia nemorosa 'Ostfriesland'	C	3L	V		2	4	8
Sedum 'Ruby Glow'	C	2L	V		1	5	5
Stipa gigantea	C	4L	V	1		3	3
Stipa tenuissima	C	1L	S or V		2	6	12
Verbena bonariensis	C	1L	V		2	6	12
Totals				22	25		292

Herbaceous, Perennials and Grasses/ Shrubs Proportion of Mix.

	Total Area	Shrubs (%/ m2)		Herbaceous Perennials and grasses (%/m2)		Total l (m2)
Unit	(m2)	%	(m2)	%	(m2)	
Planting Mix A (Partial Shade/ Shade Mix)	56	60	34	40	22	56
Planting Mix B (Sun/ Partial Shade)	50	50	25	50	25	50

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
Birdfoot 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 'Rozanne'	20-30	C	3L	Bushy	3	2	1	3	9
Aucuba japonica 'Variegata'	20-30	C	3L	Bushy	3	2		3	6
Azalea 'Diamond White'	40-60	C	3L	Bushy	3		1	3	3
Choisya temata 'White Dazzler'	30-40	C	3L	Bushy	4	2		3	6
Escallonia 'Apple Blossom'	40-60	C	3L	Bushy	4		2	3	6
Euonymus fortunei 'Emerald Gaiety'	20-30D	C	3L	Bushy	7		2	4	8
Euonymus fortunei 'Silver Queen'	20-30D	C	2L	Bushy	3	2		2	4
Hebe 'Red Edge'	30-40	C	3L	Bushy	5	2		4	8
Hydrangea macrophylla 'Nikko Blue'	40-60	C	3L	Branched	5		2	4	8
Hypericum Hidcote	30-40	C	3L	Bushy	5	2		4	8
Hypericum x moserianum	30-40	C	3L	Bushy	5	2		4	8
Ilex aquifolium 'Golden van Tol'	40-60	C	3L	Leader with lats		2		2	4
Lavendula angustifolia 'Munstead'	20-30	C	3L	Bushy	5		3	3	9
Lavendula 'Hidcote'	20-30	C	3L	Bushy	5		1	3	3
Lonicera pileata	30-40	C	3L	Bushy	2	2		3	6
Nandina domestica 'Gulfstream'	20-30	C	3L	Several shoots		2		5	10
Philadelphus 'Belle Etoile'	40-60	C	5-7.5L	Branched	5		3	2	6
Pieris 'Forest Flame'	20-30	C	3L	Bushy	3	2		3	6
Rosa 'Kent'	40-60	C	4L	Bushy			3	3	9
Rosa 'Moonlight'	40-60	C	3L	Bushy	4		3	3	9
Ruscus aculeatus	20-30	C	2L	Several shoots	3	2		4	8
Sarcococca humilis	20-30	C	3L	Bushy	7	2		3	6
Skimmia x confusa 'Kew Green'	30-40	C	5L	Bushy	3	2		4	8
Skimmia japonica	30-40	C	5L	Bushy	3	2		3	6
Viburnum davidii	40-60	C	3L	Bushy		2	2	3	12
Viburnum x bodnantense 'Dawn'	80-100	C	10L	Branched	4		2	1	2
Viburnum x juddii	60-80	C	10L	Branched	5	2		2	4
Totals						34	25		182

Tree Planting Schedule

Name	Form	Age	Girth (cm)	Height (cm)	Clear stem (cm)	Root condition	Breaks	Nr of Trees
Acer campestre	Standard (extra heavy)	3x	12-14	350-425	175-200	RB	5	1
Acer griseum	Standard (extra heavy)	3x	12-14	350-425	175-200	RB	5	1
Betula nigra	Standard (extra heavy)	3x	16-18	425-600	175-200	RB	5	2
Corylus columa	Standard (extra heavy)	3x	16-18	425-600	175-200	RB	5	7
Crataegus laevigata 'Paul's Scarlet'	Standard (extra heavy)	3x	16-18	425-600	175-200	RB	5	3
Malus 'Profusion'	Standard (extra heavy)	3x	14-16	400-450	min 200	RB	5	1
Malus 'Red Sentinel'	Standard (extra heavy)	3x	14-16	400-450	min 200	RB	5	2
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	2
Tilia tomentosa	Standard (extra heavy)	3x	16-18	min 450	min 200	RB	5	1
Total								

Native Woodland Matrix Planting Schedule

Botanical Name	Common Name	Min No. Branches/	Form	Height (cm)	Area (m)	% of mix	No. of Plants
Betula pendula	Silver Birch	1	Whip (BR)	100-125	137	10	9
Crataegus monogyna	Hawthorn	1	Whip (BR)	100-125	137	10	9
Ilex aquifolium	Holly	1	Whip (BR)	100-125	137	10	9
Malus sylvestris	Crab Apple	1	Whip (BR)	100-125	137	10	9
Prunus avium	Wild Cherry	1	Whip (BR)	100-125	137	10	9
Prunus padus	Bird Cherry	1	Whip (BR)	100-125	137	10	9
Sambucus nigra	Elder	1	Whip (BR)	100-125	137	5	5
Rosa canina	Dog Rose	1	Whip (BR)	60-80	137	5	5
Corylus avellana	Hazel	1	Whip (BR)	100-125	137	30	27
TOTAL						100	91

Woodland trees and shrubs to be planted at 1.5m centres into min 300mm depth topsoil with free draining subsoil beneath. Whips to be randomly planted in areas shown on drawings. Group 3 or 5 of the same species together. All trees to be mulched with 75mm depth bark mulch. Rabbit Proof Guard with bamboo cane to be installed to each whip.

Rev A: Client Amendments 04.07.2018

Project:
Bryn Y Groes, Gresford (Phase 4)

Drawing Title:
Planting and Maintenance Schedules

Scale: NTS	Date: 02/07/2018
Status: Planning	Drawn: ES Checked: TS
Drawing Number: 029.01.06	Revision: A

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.