

TREES - SITE WIDE													
Code	Name	Form	Age	Girth (cm)	Height (cm)	Clear Stem (cm)	Root Type	Container Size	Habit	Spacing	Spacing Type	Comments	Quantity
Ac	Acer campestre (Field maple)	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	3
AmI	Amelanchier lamarckii	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	11
Cm	Crataegus monogyna (Hawthorn)	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	4
Ms	Malus sylvestris (Crab apple)	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	11
MJD	Malus 'John Downie'	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	5
Mt	Malus tschonoskii	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	4
Pa	Prunus avium (Wild cherry)	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	12
Pc	Prunus cerasifera (Cherry plum)	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	5
PSB	Prunus 'Sunset Boulevard'	Extra Heavy Standard	3x	14-16	400-450	200	RB				As shown	Min 5 breaks	3
Qr	Quercus robur (Oak)	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	4
QrS	Quercus robur (Oak)	Extra Heavy Standard	3x	14-16	400-450	200	RB				As shown	Min 5 breaks	4
Sa	Sorbus aucuparia (Rowan)	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	10
SJR	Sorbus aucuparia 'Joseph Rock'	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	4
St	Sorbus torminalis (Wild service tree)	Selected Standard	2x	10-12	300-350	175-200	RB				As shown	Min 4 breaks	5
													85

MNH1 - MIXED NATIVE HEDGE - Total Length 375 Lin m (based on double staggered row at 300mm cnts)											
% Mix	Name	Form	Age	Height (cm)	Root Type	Container Size	Habit	Spacing (c m)	Spacing Type	Comments	
10%	Acer campestre (Field maple)	Tree	1+1 Transplant;seed raised	60-80	B			3	m2	Local provenance	
50%	Crataegus monogyna (Hawthorn)	Tree	1+1 Transplant;seed raised	60-80	B			3	m2	Local provenance	
10%	Corylus avellana (Hazel)	Shrub	1+1 Transplant;seed raised	60-80	B			3	m2	Local provenance	
5%	Euonymus europaeus (Spindle)	Shrub	1+1 Transplant;seed raised	60-80	B			3	m2	Local provenance	
5%	Ligustrum vulgare (Wild privet)	Shrub (Semi-evergreen)	1+1 Transplant;seed raised	60-80	B			3	m2	Local provenance	
5%	Lonicera periclymenum (Honeysuckle)	Climber	1+1 Transplant;seed raised	60-80	B			2	m2	Local provenance	
5%	Prunus spinosa (Blackthorn)	Shrub	1+1 Transplant;seed raised	60-80	B			3	m2	Local provenance	
5%	Rosa canina (Dog rose)	Shrub	1+1 Transplant;seed raised	60-80	B			3	m2	Local provenance	
5%	Sambucus nigra (Elderflower)	Shrub / tree	1+1 Transplant;seed raised	60-80	B			3	m2	Local provenance	
100%											

MNH2 - MIXED NATIVE HEDGE - Total Length 193 Lin m					
% Mix	Name	Height (cm)	Root Type	Density and Spacing	Final Height
10%	Ilex aquifolium	60-90	B	Double staggered row at 30cm apart, 6 plants per linear metre	Grow and maintain to a height of approx 1-1.2m
20%	Carpinus betulus	60-90	B		
70%	Crataegus monogyna	60-90	B		
100%					

ORNAMENTAL SHRUB AND HERBACEOUS PLANTING						
Code	Name	Form	Rate m2	Height	Container Size	Specification
ABE GRA	Abelia grandifolia	Shrub - semi-evergreen	5	30-40	3L	Bushy; 3 breaks
CHO AZT	Choisya 'Aztec Pearl'	Shrub - evergreen	5	30-40	3L	Bushy; 6 breaks
ERY BOW	Erysium 'Bowles Mauve'	Shrub - semi-evergreen	5	30-40	3L	Full pot
HEB GRE	Hebe 'Great Orme'	Shrub - evergreen	5	20-30	3L	Bushy; 5 breaks
HEB RAC	Hebe rackaensis	Shrub - evergreen	5	20-30	3L	Bushy; 5 breaks
LAV HID	Lavandula angustifolia 'Hidcoté'	Shrub - semi-evergreen	5	15-20	3L	Bushy; 5 breaks
PER DAR	Pericaria affinis 'Darjeeling'	Perennial - ground cover	5		2L	Full pot
SAR HUM	Sarcococca humilis	Shrub - evergreen	5	20-30	3L	Bushy; 5 breaks
SKI JAP	Skimmia japonica 'Kew Green'	Shrub - evergreen	5	30-40	3L	Bushy; 4 breaks
VIB DAV	Viburnum davidii	Shrub - evergreen	5	30-40	3L	Bushy; 4 breaks

GRASS TYPES			
Area m2	Name	Description	Installation
118 m2	WFG8 Hedgerow and Shaded Areas	Supplied by Germinial or equivalent approved	To suppliers recommendations
2574 m2	A16 (Reclamation Country Parks)	Supplied by Germinial or equivalent approved	To suppliers recommendations

MARGINAL PLANTING			
Area (m2)	Type	Description	Specification
32 m2	Wildlife pond	Pre-established coir roles or palettes with a standard native wetland species mix. Rolls or palettes should be grown in outdoor beds for greater resilience. Supplied with approx 1 years plant growth. To be installed around pond edge or along the shelf edge and secured in place with bio pegs in accordance with suppliers recommendations. Supplied by Salix or equivalent approved	Install to suppliers recommendations

NATIVE BULB MIX					
% Mix	Botanical Name	Common Name	Density	Density Type	Comments
20%	Galanthus nivalis	Native snow drop	30	m sq	Grade 4/5
30%	Hyacinthoides non-scripta	Native blue-bell	30	m sq	Grade 4/5
50%	Narcissus pseudonarcissus	Native wild daffodil	20	m sq	Grade 5/6
100%					

SPECIFICATION NOTES

General Landscaping

All material and workmanship to comply with latest British Standards and latest codes of best practice.
All proposed planting areas are subject to the location of services and below ground structures. Verification of service lines and below ground structures are the responsibility of the appointed contractor prior to commencement of works. All soft landscape works to be carried out by a certified / qualified Landscape Contractor to ensure correct planting and establishment methods are adhered to.

Existing levels to be preserved around retained existing trees and vegetation. Existing trees and vegetation to be retained are to be protected in accordance with BS5837:2012 during construction. Proposed planting under existing trees subject to sufficient space in root areas.

Setting out

Planting shall be set out as indicated on the drawing unless otherwise instructed due to site constraints or level variations during construction.

Note - trees shown to be planted within existing woodland areas - final locations to be agreed on site to ensure minimal disturbance to existing trees and zones or other woodland flora. All plants to be planted using the correct mixes to ensure increased bio-diversity and to reduce the risk of spreading diseases, unless otherwise indicated or instructed.

Ground preparation

Works should be carried out to existing topsoil to ensure it conforms to BS 3882:2015. Topsoil should be free from rocks larger than 50mm in diameter, concrete, wire, brick, all roots and less than 20% clay and prepared accordingly ready to receive tree and plant stock. All soil levels for shrub beds and grass areas should have any compacted sub-grade thoroughly broken up by machine before instructing the ground worker to spread topsoil or the landscape contractor to commence work as the beds will become waterlogged in wet weather and the plants and grass planting will die.

Preparation of Planting Beds

- Rubbish, concrete, metal, glass, decayed vegetation are to be removed and disposed of off site.
- Stones with the largest dimension exceeding 40mm are to be removed from planting beds and disposed of off site.
- Substances injurious to plant growth including subsoil, rubble, fuel and lubricants should be removed and disposed of off site.
- Remove any existing weed growth.
- Areas of large root are to be grubbed up without undue disturbance of surrounding soil and adjacent areas.
- All site preparation, planting and maintenance to comply with BS 4429

Topsoil

Imported topsoil to be a good quality loam to BS 3882:2015. All topsoil areas shall be thoroughly cultivated by hand or suitable machinery to the full depth of the topsoil layer, incorporating ameliorants as specified and/or as indicated by analysis and/or as indicated by the Landscape Architect. Hand cultivation's shall be carried out to achieve the required finish on areas where machine cultivation is impossible i.e. adjacent to kerbs, manholes and footpath junctions etc. Surplus plant matter, rubbish and surface stones having any dimension greater than 25 mm shall be collected and removed from the site. Existing topsoil to be stripped and re-used if suitable as per specification. All work to be carried out in line with BS 3882:2015 and DEFRA Construction Code of Practice for the Sustainable Use of Soils on Construction Sites (2009).

Tree Planting

Individual Trees -

Planted to **BS 5837: 2012** and **BS 8545: 2014** recommendations.

Maintained to BS Standard 7370:4-1993 and BS 3998 2010

Individual tree pits should be dug to accommodate the specific size of each individual tree rootball. Side of the pit to be scarified. Pit dimensions should allow for a min 150-300mm to a max 600-900mm greater than the diameter of the rootball for healthy internal root growth and to allow adequate clearance between the perimeter of the root-ball and the side of the pit. Pits to be backfilled with 80% clean topsoil with 15% peat free compost and 5% Tree Growth Enhancer 'GroChar', including 100g granular fertilizer. Top of the rootball should sit just under the surface to accommodate a max 50-75mm layer of Melcourt Spruce Ornamental Bark mulch or equally approved (mulch layer may not be appropriate for trees planted in the existing woodland areas).

Trees should be located min 3m from any building unless indicated or agreed by client / landscape architect. Trees should be planted in areas previously cleared of all weeds, grass and vegetation. The trees are to be various sizes as stated in the proposed planting schedules and should be rootballed or container grown and healthy and vigorous. Trees should be planted in planting holes appropriate to the size of the individual rootball, with the topsoil mixed with suitable tree planting compost and replaced carefully around the roots and lightly compacted every 150mm layer. It is recommended that an area at the base of each tree of 1.5 metre diameter in area is maintained weed free for an agreed period of years following planting.

Trees shown on plan to be planted with species as labelled or similar approved. Do not substitute species, variety and form or reduce the specified number/density of plants without prior agreement. Note sizes shown are minimum. Base of pit to be filled with a Terram Geotextile layer on 150mm drainage layer consisting of 20mm nominal size free draining pea gravel. Water-in heavily after planting and surface bark chippings 75mm depth. All trees, to be double staked with timber cross bar and soft ties. Smaller trees may require only a single stake if appropriate for establishment. Any necessary tree works are to be carried out by an approved tree surgeon to BS 3998. All trees to be protected with 600mm spiral rabbit guard. Semi Mature trees to be fixed with underground guys Underground Guying - Platipus rootball fixing system including PlatMat or equally approved should be applied to larger trees or trees where timber stakes may not be required for aesthetic reasons such as on feature trees or multi-stems.

Trees planted in grass to be set in bare earth squares 1m diameter around tree trunk with bark mulch to 75mm depth after planting. All work to be carried out in line with BS 3882:2015 and DEFRA Construction Code of Practice for the Sustainable Use of Soils on Construction Sites (2009).

Timber Stakes

Timber stakes - peeled chestnut or larch, free from projections, machine rounded, pointed and tannalised / preserved to resist rot for their intended lifespan, and strong enough to take nails without splitting.Stakes should not be more than one third of the tree height. Drive in the stakes so that they are a minimum of 300mm below the bottom of the pit. Double stakes with crossbar maybe used where larger rootballs occur to ensure greater stability. Use of adjustable rubber ties are recommended and installed in accordance with manufacturers specifications.

Rubber ties to be inspected first few years of establishment and loosened appropriately to accommodate trunk expansion.

Stakes and rubber ties to be removed at the end of year two and not later than the end of year 3 for trees which have not established well. If a tree remains in need of staking beyond year three, it should be replaced as it has not thrived or developed a strong root system.

Root Barriers

Where trees are located within a 3m distance to a building or to any adoptable areas / services, then a root barrier system may be required.

Tree and Habitat Protection

Existing trees and habitat areas to be protected in accordance with BS 5837: 2012 Trees in Relation to Design and Demolition

Planting Season -

All bare root and rootballed planting should be carried out during the planting season between October to March.

Should the programme for planting fall outside of the planting season months, the plant stock should be specified as container grown stock only.

All planting to be carried out within the appropriate planting season as listed below:

- Deciduous trees and shrubs: Late October to Late March
- Conifers and evergreens: September/October or April/May
- Herbaceous plants, including marginal: September/October or March/April
- Dried bulbs, corms or tubers: September/October
- Green bulbs: After flowering
- Aquatic plants: May/June or September/October

Container grown trees and shrubs: At any time if ground and weather conditions are favorable

Watering

Trees shall be watered to field capacity upon planting, then provided with a watering gator bag. Gator bags deliver 75L of water which should be filled in accordance to weather conditions but minimally once per week during the first growing season and twice per week in hot, dry weather. Thereafter, fortnightly until full establishment.

Any trees in close proximity to hard surfaces / services and footpaths or building foundations should have a green leaf eroot600 root barriers or a similar approved root barrier system installed.

Plants

BIO-SECURITY NOTE: All tree and shrub stock to be UK grown and, of local provenance where possible. All tree and plant stock to be sourced from reputable tree and plant nurseries local to the area. Imported tree and plant stock should be avoided to reduce risk of introducing or, further spreading tree related diseases in the UK in accordance with latest UK and EU Bio-security guidance. If tree or plant stock is to be imported then, the contractor must follow correct quarantine procedures including allowing for min 12 month quarantine period, correct and rigorous P&D checks and ensure passport documentation and provenance/nursery details are supplied and verified, before being released form quarantine and transported to site. Please refer to the Landscape Institute's Bio-Security Tool Kit for further details.

General plant stock to conform to BS 3936, advanced nursery stock and planting to BS 4428. Plants shall be first class examples of their species or variety, free from all pests and diseases, with good fibrous root systems and materially undamaged (refer to relevant sections of BS3936 Parts 1-4 'Specification of Nursery Stock'). All planting operations to be in general compliance with BS4428: 1989 'Code of Practice for general landscape operations (excluding hard surfaces)'.
Carry out all planting while soil and weather conditions are suitable. Do not plant during periods of frost or strong winds.

All plants to be planted in cultivated planting beds at densities shown in plant schedule, in pits of min. size 0.3m x 0.3m x 0.3m deep so as to accommodate full root spread, backfilled with 80% clean topsoil and 20% compost and 20g granular fertilizer. All shrub beds to be in min. 450mm good quality, well prepared topsoil.

Bed composition, arrangement and setting-out to be approved by Landscape Architect before work commences. Topsoil depth to be 450mm for shrub planting and 150mm for grass.

Hedges

Hedges to be grown to established heights of between 800-1000mm. Based on double staggered row at 300mm centres where space allows.

During the first few years of establishment the hedge should be encouraged to grow freely to reach the required heights.

Close clipping approx twice a year will help to maintain a formal appearance close to the building and disable parking bays bays.

Hedges must not be cut during the breeding bird season (between 31st March and 31st of July).

Spiral rabbit guards to be used supported by 900mm bamboo canes. To be kept free of weeds during establishment.

Bare root plants to be notch planted to depth of root collar in accordance with BS4428.

Grass Seed mix

Follow manufacturers guidance on ground preparation, sowing and management for the grass and wildflower planting.

Mulch

General purpose mulch prepared in accordance with PAS 100. All planting areas and tree pits to be mulched with 75mm (settled depth) bark mulch. Sample of mulch to be approved by Landscape Architect.

Replacement planting of trees and plants

The contractor shall replace all plants/trees that have failed to thrive (show growth or display foliage) during the growing season after planting (including plants damaged during maintenance operations). Replacements to match original specification or similar size/species approved by the Landscape Architect.

P1	20.05.2022	First Issue	HGL	
Rev	Date	Description	Initials	

				
PGLA Ltd Landscape Architects Station Hop Studios Stockport Road Manchester M19 3BS t: 0161 238 9138 e: info@pgla.co.uk w: www.pgla.co.uk				
Client DAVID GIBBONS				
Project WATERFOLD MILL, HEYWOOD				
Description LANDSCAPE PROPOSALS PLANTING SCHEDULE AND NOTES				
Status PLANNING				
Scale 1:200@A1	Drawn HGL	Date MAY 2022		
Job number WAT2110	Drawing number PP05.00	Revision P1		

