

## PLANTING NOTES

All plants supplied shall comply with the National Plant Specification. Supplying nurseries shall be registered under the Horticultural Trade Association (HTA) Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. Native shrubs shall be British provenance, where available, and certified to confirm origin.

### Good Horticultural Practice

All landscaping work shall adopt good horticultural practices. Compost, mulch and soil conditioners shall be peat-free. The use of pesticides (herbicides, insecticides, fungicides, slug pellets etc) shall be discouraged. Any pesticides used shall be non-residual, i.e. glyphosate.

### Nesting Birds

To ensure compliance with the Wildlife & Countryside Act 1981 (as amended), vegetation clearance shall be undertaken outside the bird nesting season, which generally extends between March and September inclusive, dependent on weather. If birds are found to be nesting any works which may affect them shall be stopped until the young have fledged and the nest abandoned naturally.

### GROUND PREPARATION

#### Weed Control

Prior to any excavation or cultivation of soft landscape areas start existing weeds where necessary with a glyphosate based herbicide and allow a suitable period as recommended by the manufacturer for this to take effect.

#### Subsoil Depths & Acceptable Materials

Provide a minimum depth of subsoil beneath topsoil formation levels to the clearances specified below in all soft landscaped areas. Where there is insufficient depth excavate and dispose of material, loosen the formation and make up with additional subsoil or second quality topsoil. Grade to smooth flowing contours to achieve specified finished levels of topsoil.

#### Acceptable Materials

Additional subsoil or second quality topsoil shall be free of pests, diseases, visible fragments and roots of aggressive weeds, sticks, straw, turf and significant quantities of foreign matter such as building materials, vegetation, lumps of clay, and the like. Do not use any materials contaminated with rubbish or other materials that are:

- corrosive, explosive, or flammable
- hazardous to human or animal life
- detrimantal to healthy plant growth

#### Contaminated Subsoil

Thoroughly clean existing subsoil of all builders rubbish to full depth before ripping the ground.

#### Subsoil Treatment

Prior to spreading topsoil and when ground conditions are reasonably dry the subsoil shall be thoroughly loosened to full depth using a winged tine cultivator. The spacing between the tine furrows shall be close enough to cause the splitting and fracturing of the soil throughout the treatment depth. Remove any stones larger than 75mm and other items including bricks, kerbs, lumps of concrete, plaster, timber, plastic, glass, metal and any other building debris brought to the surface.

#### Soil Requirements & Soil Profile Depths

Imported subsoil to **BS 8801: 2012**

Imported topsoil to **BS 3882: 2015** - multi-purpose for general landscaping operations.

#### Minimum placement depths for topsoil and subsoil:

- Meadow Grass: 450mm comprising 50mm topsoil over 400mm cultivated subsoil - to ensure reduced soil fertility for the establishment of wildflowers
- Shrub beds: 600mm comprising 400mm topsoil over 200mm cultivated subsoil
- Tree pits: 900mm comprising 400mm topsoil over 500mm free-draining/sandy subsoil - refer to key for specific requirements

Handle topsoil in the driest conditions possible. Do not handle during heavy rainfall.

Break up compacted topsoil to full depth prior to cultivation.

#### New Tree Planting Adjacent Services & Structures

All trees and shrubs, whether existing, felled, or proposed, on or adjacent to the site shall be taken into consideration by the client's structural engineer when calculating foundation types and depths.

- In accordance with Sewers for Adoption 7th Edition: No tree shall be planted directly over sewers or where excavation onto the sewer would require removal of the tree. A sewer or lateral drain shall not be located closer to trees/bushes/shrubs than the canopy width at mature height, except where special protection measures are provided in accordance with Clause C8.6 (see below)
- Clause C8.8, where there is a risk of tree root intrusion the sewer system shall be resistant to tree root ingress (e.g. by use of appropriate barriers or constructed from polyethylene with welded joints)
- All trees planted within 3m of a building or heavily loaded structure shall have their roots deflected away by means of a high density deep application root barrier to avoid direct damage from future tree growth
- All trees within 2m of a masonry boundary wall, or within 3m of any hard paved surface or underground service, shall have their roots deflected away by the installation of a tree root barrier system to avoid direct damage from future tree growth.

#### Root Barrier System

- For protection of building foundations: ReRoot 2000 high density deep application root barrier
- For protection of pavements only (surround applications): Root Director RD1050 or RD1400, dependent on predicted girth (circumference) of mature trunk (manufacturer to advise)
- For protection of pavements, underground services/utilities and masonry boundary walls (linear applications): ReRoot 600, 1000 or 2000 ribbed root barrier, dependent on predicted girth (circumference) of mature trunk and/or depth of service/utility (manufacturer to advise) As supplied by GreenBlueUrban Ltd., or similar.
- Installation in full accordance with manufacturer's instructions.

The Landscape Contractor shall be responsible for acquiring 'As-Built' drain and service plans before commencing work on site.

## ESTABLISHMENT AFTERCARE

Maintenance operations during establishment including Contractor's initial 12 months defects and aftercare period shall include:

#### Ornamental & Native Shrubs, Hedges & Climbers

- Weed Control - All planting beds/base of hedges shall be kept weed free by hand weeding or herbicide treatment. Top up mulch twice annually in spring and autumn to maintain original specified depth
- Firming & Pruning - firm and prune all newly planted plants in accordance with good horticultural practice to promote healthy, bushy growth and to ensure individual plants establish dense cover as rapidly as possible. Any damaged shoots or branches shall be pruned back to healthy wood
- Trim back growth overhanging adjacent footpaths and parking areas
- Native mixed hedges: Once established, trim hedges annually on rotation one side at a time. Trimming shall be carried out during the dormant season from November to March, taking care not to disturb nesting birds
- Ornamental hedges (excluding Pyracantha): Once established, clip annually one to three times during the summer to maintain desired shape and height, taking care not to disturb any nesting birds
- Pyracantha hedge: Prune twice a year, once in Spring (after flowering) and again in late Summer to maintain shape and encourage dense, bushy growth, taking care not to disturb any nesting birds
- Climbing plants: Inspect at regular intervals to ensure any loose branches/stems are secured to the supporting netting or wires
- Monitor health and control pests and diseases
- Apply an annual application of slow-release fertiliser to planting beds during March/April
- Watering - water as required to ensure establishment and survival (see below)

#### Specimen Trees

- Individual trees planted as specimens shall be inspected annually during the growing season and maintained as follows:
- Firm and straighten to an upright position as required
- Monitor health and control pests and diseases
- Maintain irrigation systems/pipes in good working order. Irrigation pipes shall be checked and repaired as necessary
- All tree stakes and ties are to be checked and adjusted if too loose, too tight, or if chaffing is occurring. Any broken stakes are to be replaced
- Formative pruning to include: removal of epicormic shoots, deadwood, competing secondary leader shoots, and closely spaced, duplicated branches with potentially weak or tight forks. All tree works to be carried out in accordance with BS 3998:2010.
- Apply an annual application of slow release fertiliser during March and April at a rate of 50g per tree
- Watering - Water as required to ensure establishment and survival (see below)

#### Watering

During the first three years after planting a watering regime shall be implemented, commencing from the end of March/early April to the end of October (dependent on prevailing weather conditions). All newly planted trees, shrubs and climbers, shall be watered thirteen times in the first growing season (year one) after planting, and seven times during each of the following two growing seasons (years two and three) to ensure rapid establishment and survival.

#### Replacement of Failed or Defective Plants

Following the initial 12 months defects period any trees or plants which within a period of 5 years from the completion of the development are missing, found dead, or are seriously damaged or diseased shall be replaced in the next planting season.

## GRASSLAND ESTABLISHMENT & MANAGEMENT

### ESTABLISHMENT (FIRST YEAR AFTER SOWING)

#### Meadow Grass

- Areas which fail to germinate or establish shall be re-seeded as required
- Meadow Grass - annual weeds shall be controlled by topsoil or regular mowing until the sown grasses are established. Control perennial weeds by spot application of herbicide

#### Reinforced Soil Wall

- Watering - During the first year after seeding/germination, commencing from the end of March/early April to the end of October (depending on prevailing weather conditions, the grasses/wall shall be watered once a week to ensure establishment and survival
- Rectification - Vegetation establishment shall be monitored weekly at each watering visit. Areas of vegetation which fail shall be rectified by repeat hydroseeding
- Cutting - leave uncult during the first year after germination to maintain the protection required for the longer term establishing grasses and climbers. Once established, the grasses and climbers will be generally maintenance free. Where trimming is required, the vegetation shall not be cut back less than 50mm. Climbing plants shall be inspected at regular intervals to ensure any loose branches/stems are secured to the supporting netting or wires
- Weed Control - control annual/perennial weeds, self-set saplings and bramble by spot application of herbicide

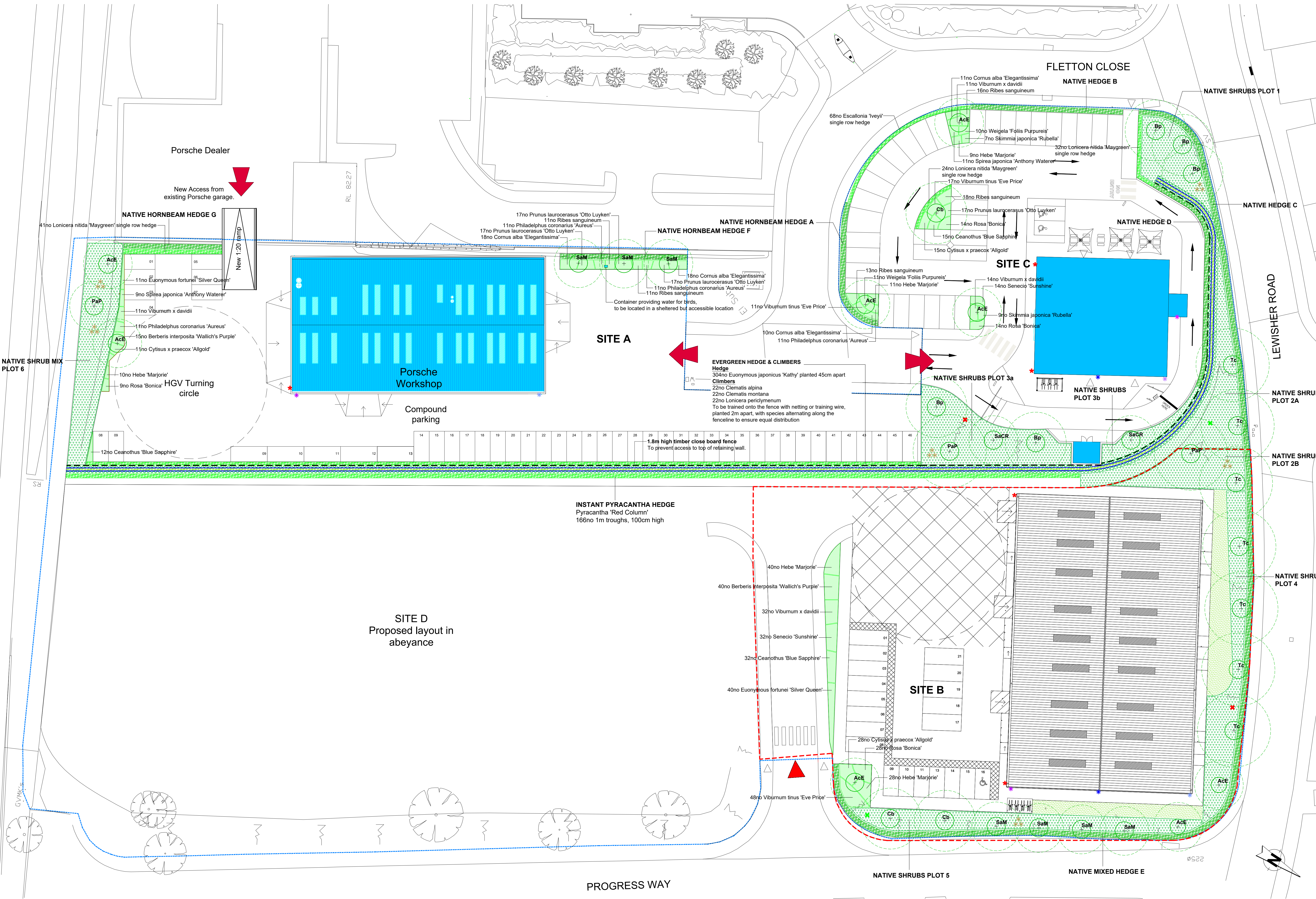
#### MANAGEMENT ONCE ESTABLISHED:

##### Meadow Grass

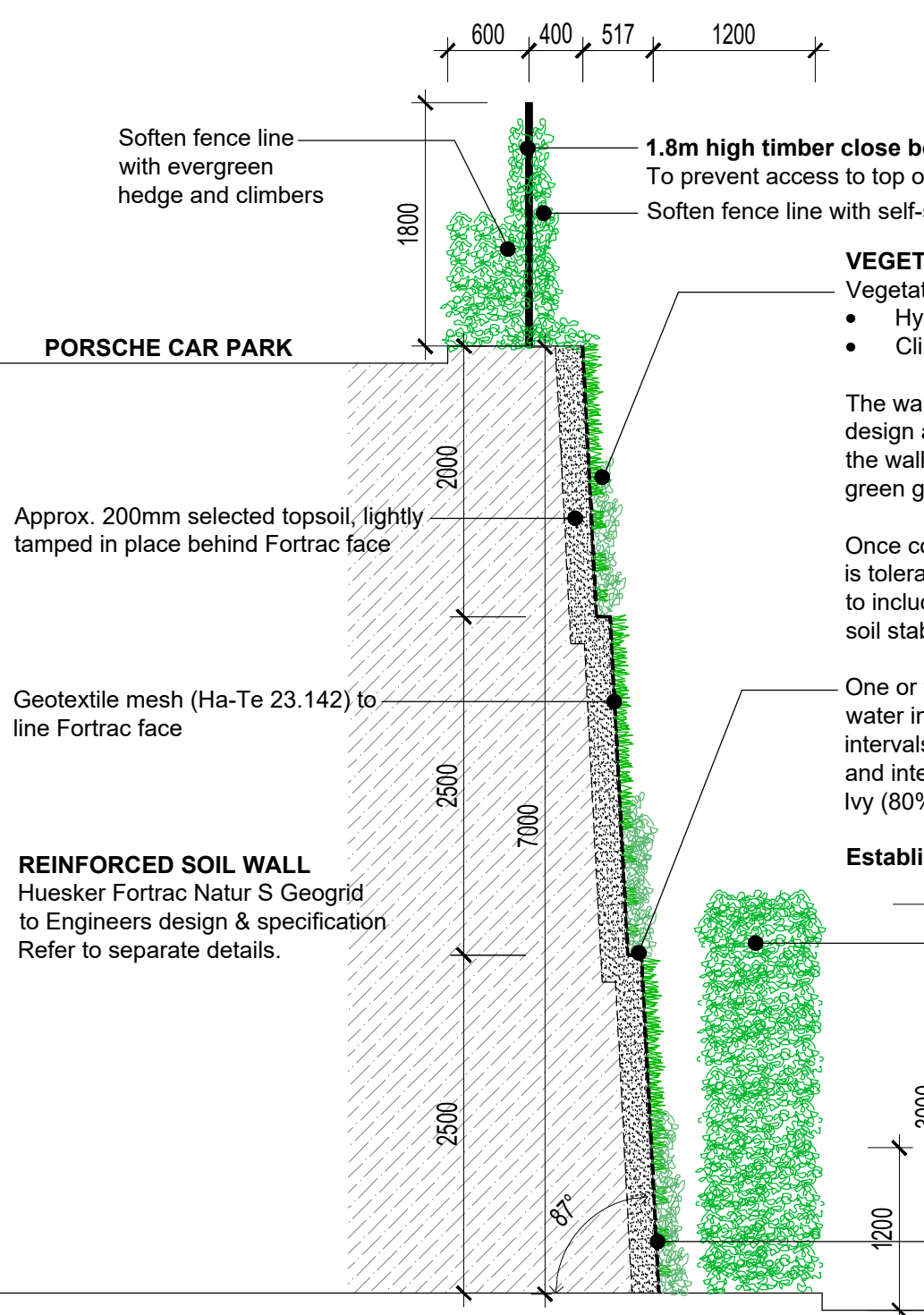
- A single cut shall be carried out in late August/early September after seeding of desirable species. Cut height shall be between 50-60mm. All arisings shall be raked off and removed after 7 days to allow further seed dispersal. Control perennial weeds by occasional spot treatment with a herbicide

#### Reinforced Soil Wall

- Once established, the grasses/wall will be generally maintenance free. Where trimming is required, the vegetation shall not be cut back less than 50mm. Control perennial weeds by occasional spot treatment with a herbicide
- Watering - Continue a monitored watering regime and apply water to the grassed wall, once or twice a week as required, during periods of abnormally dry/hot weather



TYPICAL SECTION THROUGH REINFORCED SOIL WALL BETWEEN SITE A & SITE D - showing height of retaining wall at 7m



## PLANT SCHEDULE

### SPECIMEN TREES

Ref	Species	Girth (cm)	Form	Height	Root Condition	Qty
AcE	Acer campestre 'Elegant'	14-16cm	Extra Heavy Standard	425-600cm	Rootball	8
Bp	Betula pendula	14-16cm	Extra Heavy Standard	425-600cm	Rootball	5
Cb	Carpinus betulus	14-16cm	Extra Heavy Standard	425-600cm	Rootball	3
PaP	Prunus avium 'Piena'	14-16cm	Extra Heavy Standard	425-600cm	Rootball	3
Sam	Sorbus aria 'Maestica'	14-16cm	Extra Heavy Standard	425-600cm	Rootball	7
SaCR	Sorbus aucuparia 'Cardinal Royal'	14-16cm	Extra Heavy Standard	425-600cm	Rootball	2
Tc	Tilia cordata	14-16cm	Extra Heavy Standard	425-600cm	Rootball	7

Trees to be locally sourced, where available.

### NATIVE HEDGES

Hedge				A	B	C	D	E	F	G	
Length (m)				23	25	67	37	134	21	16	
Species	Height	Root Condition	%	Qty	Qty	Qty	Qty	Qty	Qty	Qty	
Mixed Hedge											
Acer Campestre (Field Maple)	60-80cm	1+1 bareroot transplant	10	0	0	33	0	67	0	0	
Cornus sanguinea (Dogwood)	60-80cm	1+1 bareroot transplant	5	0	0	17	0	34	0	0	
Corylus avellana (Hazel)	60-80cm	1+1 bareroot transplant	10	35	21	38	7	37	35	35	
Crataegus monogyna (Hawthorn)	60-80cm	1+1 bareroot transplant	60	0	0	201	0	402	0	0	
Ilex aquifolium (Holly)	60-80cm	3 litre container	5	0	0	17	0	34	0	0	
Malus sylvestris (Crab Apple)	60-80cm	1+1 bareroot transplant	5	0	0	17	0	33	0	0	
Viburnum opulus (Guelder Rose)	60-80cm	1+1 bareroot transplant	5	0	0	17	0	33	0	0	
Hornbeam Hedge											
Carpinus betulus (Hornbeam)	60-80cm	1+1 bareroot transplant	0	115	125	0	185	0	105	80	
				Total	115	125	335	185	670	105	80

Calculation of numbers based on 5 plants per linear metre for a double staggered row

### NATIVE SHRUB MIX

Plot	1	2a	2b	3a	3b	4	5	6			
Total Area (m2)	90	175	104	190	36	186	161	178			
Species	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty			
Corylus avellana	20	60-80cm	1+1 bareroot transplant	18	35	21	38	7	37	32	35
Cornus sanguinea	20	60-80cm	1+1 bareroot transplant	10	35	21	38	7	37	32	35
Crataegus monogyna	15	60-80cm	1+1 bareroot transplant	13	26	16	28	5	28	24	26
Ilex aquifolium	15	60-80cm	3 litre container	13	26	16	28	5	28	24	26
Prunus spinosa	15	60-80cm	1+1 bareroot transplant	13	26	16	28	5	28	24	26
Rosa canina	10	60-80cm	1+1 bareroot transplant	10	18	10	20	4	19	16	18
Viburnum lantana	15	60-80cm	1+1 bareroot transplant	13	26	16	28	5	28	24	26
100	Total	90	175	104	190	36	186	161	178		

### CLIMBERS FOR REINFORCED SOIL WALL

Species	Height	Size	Spacing	%	Qty	Distribution
Top of Wall (along fence)	60-80cm	3 litre container	50cm apart	45	205	groups of 3-5, evenly distributed along wall/fence
Hedera helix 'Goldheart'	60-80cm	3 litre container	50cm apart	45	205	groups of 3-5, evenly distributed along wall/fence
Hedera helix 'Glacier'	40-60cm	3 litre container	50cm apart	10	46	individually, every 5m along wall/fence
Hydrangea petiolaris	40-60cm	3 litre container	50cm apart	10	46	individually, every 5m along wall/fence
Wall Face (50mm steps)						
Hedera helix	30-50cm	P9	50cm apart	80	*	remaining positions along steps
Parthenocissus henryana	30-50cm	P9	50cm apart	20	*	remaining, every 2.5m along steps
Bottom of Wall						
Hedera helix	60-80cm	3 litre container	50cm apart	70	319	groups of 3-4, evenly distributed along wall
Clematis alpina**	60-80cm	3 litre container	50cm apart	10	46	groups of 2, evenly distributed along wall
Clematis montana**	60-80cm	3 litre container	50cm apart	10	46	groups of 2, evenly distributed along wall
Viburnum percnelymenum**	60-80cm	3 litre container	50cm apart	10	46	groups of 2, evenly distributed along wall

\* Quantity dependent on number of steps incorporated into wall

\*\* Clematis & Lonicera to be trained onto the wall with netting or training wire. All other climbers are self-supporting.

### ORNAMENTAL SHRUBS, HEDGES & CLIMBERS

Shrub Species	Height	Size	Density	Qty
Berberis interposita 'Wallich's Purple'	20-30cm	3 litre container	4m2	55
Ceanothus 'Blue Sapphire'	30-40cm	3 litre container	4m2	55
Clematis alpina (climber)	60-80cm	2 litre container	as drawing	22
Clematis montana (climber)	60-80cm	2 litre container	as drawing	22
Cornus alba 'Elegantissima'	40-60cm	3 litre container	4m2	57
Cytisus x praecox 'Allgold'	40-60cm	3 litre container	4m2	54
Escallonia 'Iveyii'	40-60cm	3 litre container	45cm apart	68
Eumonymus fortunei 'Silver Queen'	20-30cm	2 litre container	4m2	51
Lonicera percnelymenum (climber)	30-40cm	3 litre container	45cm apart	904
Hebe 'Marjorie'	20-30cm	2 litre container	4m2	98
Eumonymus fortunei 'Silver Queen'	20-30cm	2 litre container	4m2	51
Cornus alba 'Elegantissima'	40-60cm	3 litre container	4m2	57
Prunus laurocerasus 'Otto Luyken'	30-40cm	3 litre container	4m2	68
Rosa 'Bonita'	60-80cm	3 litre container	4m2	56
Senecio 'Sunshine'	30-40cm	3 litre container	4m2	65
Skimmia japonica 'Rubella'	30-40cm	3 litre container	4m2	16
Spirea japonica 'Anthony Waterer'	30-40cm	3 litre container	4m2	30
Viburnum x davidi	20-30cm	3 litre container	4m2	68
Viburnum tinus 'Eve Price'	30-40cm	3 litre container	4m2	76
Weigela florida 'Folios Purpurea'	30-40cm	3 litre container	4m2	21

### IMPLEMENTATION PROGRAMME

- All soft landscape works including preparatory operations shall be carried out when all building works are complete and before the end of the first planting season, subject to the following constraints:
- No planting or preparatory operations shall take place when the ground is frost bound, covered by snow, excessively wet or waterlogged, or in excessively dry or windy conditions
- Seed shall be sown in autumn or spring during calm weather and not when the ground is frost bound or waterlogged
- Consider grown plants may be planted at any time during favourable weather and soil conditions. Watering and weed control to be provided as necessary
- Planting of bare-root and rootballed deciduous trees and shrubs, where specified, shall be carried out from late October to late March. All bare root stock used, shall be not dipped in mycorrhizal inoculant such as Alignure or similar, applied in accordance with the manufacturer's recommendations.

### INSTANT PYRACANTHA HEDGE

Shrub Species	Height	Size	Qty
Pyracantha 'Red Column'	100-120cm	1m troughs	166

P2: Establishment & maintenance of grassed wall amended in response to LPA comments and co-ordinate with Engineers specification and design

P3: Establishment & maintenance of grassed wall amended in response to LPA comments and co-ordinate with Engineers specification and design

P4: Site A (Porch) parking reduced, landscaping updated

P5: Sandparks centred from reinforced soil wall to coordinate with Engineers design & specification

P6: Water for beds incorporated (Site A)

P7: Site B layout updated

P8: Sandparks centred from reinforced soil wall to coordinate with Engineers design & specification

P9: Site A added and retaining wall amended

G: Final Issue

Revisions

Project: Proposed Commercial Development at North West Leicester Trade Park

Drawing: Landscaping Scheme - Site A, B & C

Date: 05.01.21

Drawn: LK

Dwg No: MEL-406-001

Scale: 1:250 @ A0

Revision: P7

Project: Proposed Commercial Development at North West Leicester Trade Park

Drawing: Landscaping Scheme - Site A, B & C

Date: 05.01.21

Drawn: LK

Dwg No: MEL-406-001

Scale: 1:250 @ A0

Revision: P7

Project: Proposed Commercial Development at North West Leicester Trade Park

Drawing: Landscaping Scheme - Site A, B & C

Date: 05.01.21

Drawn: LK

Dwg No: MEL-406-001

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