



PLANT LIST

Abbrev.	Botanical Name	Girth/ Dia. cm	Height cm	Quantity	Root Zone	Specification
Ac ca	Acer campestre	12-14	350-425	2	RB	3x; HS; clear stem min. 200cm; 5 brks
Ac pl	Acer platanoides	12-14	350-425	2	RB	3x; HS; clear stem min. 200cm; 4 brks
Ma sy	Malus sylvestris	12-14	350-425	1	RB	3x; HS; clear stem min. 200cm; 5 brks
Pr ic	Prunus ichiyo	12-14	350-425	2	RB	3x; HS; clear stem 175-200cm; 5 brks

Suggested list for ornamental planting

Abbrev.	Botanical Name	Height cm	Root Zone	Specification
Be su	Bergenia 'Sunningdale'	40-60	5L	Full pot
Ch te	Choisya ternata	40-60	5L	Full pot
Eu sq	Euonymus fortunei 'Silver Queen'	20-30	5L	Bushy; 7 brks
He ra	Hebe rakaiensis	30-40	5-7.5L	Bushy; 7 brks
Li mu	Liriope muscari	30-40	5L	Full pot
Vi ti	Viburnum tinus	30-40	5L	Full pot

SPECIFICATION NOTES

- General.**
This plan to be read in conjunction with the following documents:
- Landscape drawings by terra firma
- General landscaping.**
i. 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.
ii. All landscape works to be undertaken by competent persons, with appropriate training and equipment.
iii. All arisings to be removed from site at contractor's expense unless noted otherwise. (e.g. woodchip, gravel, topsoil, timber sleepers).
- Services.**
The contractor must ascertain for himself/herself the exact location of underground services before commencing work.
- Soil Materials Generally.**
i. Purity: Soils shall be free from roots, stolons, rhizomes, propagules of perennial or invasive weeds couch grass, bindweed, docks, Japanese knotweed, giant hogweed and horsetail/marestail (Equisetum arvense).
ii. Foreign matter: On visual inspection, free from non-soil material, brick and other building materials and wastes, sharps, and any other foreign matter or material or substance that would render the soil or soil ameliorant unsuitable for use.
iii. Contamination: Do not use topsoil, subsoil, sand or compost contaminated with rubbish or other materials that are:
•? Corrosive, explosive or flammable;
•? Hazardous to human or animal life;
•? Detrimental to healthy plant growth.
iv. Give notice: If any evidence or symptoms of soil contamination are discovered on the site or in topsoil, subsoil, sand or compost or other planting media to be used.
- Soil testing**
Each soil source (imported and site-won subsoil and topsoil - see items 6-8 and 10 below) shall be analysed by Tim O'Hare Associates, Howbery Park, Wallingford, Oxon OX10 8BA, Tel: 01491 822853, Email: info@toha.co.uk, www.toha.co.uk (or equivalent approved).
- Subsoil for general planting areas (sample of site-won and/or imported subsoil to be sent for testing to check compliance with parameters below)**
Provide subsoil as necessary to make up deficiency on site. Natural or manufactured subsoil (from approved source) will be acceptable (within parameters given below). Subsoil to be tested to determine suitability for proposed use for planting; test report to be submitted for approval and to enable amelioration recommendations. Subsoil should be free from commonly tested contaminants, including asbestos. Subsoil parameters to be within the following:

Parameter	Unit	Lower Limit	Upper Limit
Clay (<0.002mm)	%	5	35
Silt (0.002-0.05mm)	%	0	25
Sand (0.05-2.0mm) of which at least 40% shall fall into fine to medium sand range	%	0	60
Stones (2-50mm)	% dry wt.	0	50
Stones (>50mm)	% dry wt.	0	0
pH Value	Unit	5.5	8.5
NB AMEND PH RANGE IF NECESSARY*			
Electrical Conductivity (1:2.5 water extract)	µS/cm	--	1500
Electrical Conductivity (CaSO4 extract)	µS/cm	--	2800
Exchangeable Sodium Percentage	%	--	15
Organic Matter	%	--	1.5

*IF AN ACIDIC SITE RANGE SHOULD BE 4.5-6.5 IF ALKALINE 7.5-8.5

Parameter	Unit	Lower Limit	Upper Limit
Clay (<0.002mm)	%	5	35
Silt (0.002-0.05mm)	%	0	25
Sand (0.05-2.0mm) of which at least 40% shall fall into fine to medium sand range	%	0	60
Stones (2-50mm)	%DW	--	50
Stones (>50mm)	%DW	--	0
pH Value	Unit	5.5	8.5
NB AMEND PH RANGE IF NECESSARY*			
Electrical Conductivity (1:2.5 water extract)	µS/cm	--	1500
Electrical Conductivity (CaSO4 extract)	µS/cm	--	2800
Exchangeable Sodium Percentage	%	--	15
Organic Matter	%	--	1.5

*IF AN ACIDIC SITE RANGE SHOULD BE 4.5-6.5 IF ALKALINE 7.5-8.5

7. **Subsoil for tree pits (sample of site-won and/or imported subsoil to be sent for testing to check compliance with parameters below)**
Provide subsoil as necessary to make up deficiency on site. Natural or manufactured subsoil (from approved source) will be acceptable (within parameters given below). Subsoil to be tested to determine suitability for proposed use; test report to be submitted for approval and to enable amelioration recommendations. Subsoil should be free from commonly tested contaminants, including asbestos. Subsoil parameters to be within the following:

Parameter	Unit	Lower Limit	Upper Limit
Clay (<0.002mm)	%	5	18
Silt (0.002-0.05mm)	%	0	25
Sand (0.05-2.0mm) of which at least 40% shall fall into fine to medium sand range	%	0	60
Stones (2-50mm)	% dry wt.	0	50
Stones (>50mm)	% dry wt.	0	0
pH Value	Unit	5.5	8.5
NB AMEND PH RANGE IF NECESSARY*			
Electrical Conductivity (1:2.5 water extract)	µS/cm	--	1500
Electrical Conductivity (CaSO4 extract)	µS/cm	--	2800
Exchangeable Sodium Percentage	%	--	15
Organic Matter	%	--	1.5

*IF AN ACIDIC SITE RANGE SHOULD BE 4.5-6.5 IF ALKALINE 7.5-8.5

8. **Topsoil for general landscapes (sample of site-won and/or imported topsoil to be sent for testing to check compliance with parameters below and to inform any necessary amelioration - see 10. below)**
Existing topsoil to be stripped and re-used, provided soil is within parameters given below when analysed. Imported topsoil to be good quality sandy loam or manufactured topsoil (from approved source, meeting parameters given below). Topsoil (site-won or imported) is to be tested to determine suitability for proposed use and should be free from commonly tested contaminants, including asbestos; test report to be submitted to Landscape Architect for approval and to enable amelioration recommendations to be made:

Parameter	Unit	Lower Limit	Upper Limit
Clay (<0.002mm)	%	5	18
Silt (0.002-0.05mm)	%	0	35
Sand (0.05-2.0mm) of which at least 40% shall fall into fine to medium sand range	%	0	50
Stones (2-20mm)	% dry wt.	0	20
Stones (20-50mm)	% dry wt.	0	15
Stones (>50mm)	% dry wt.	0	0
pH Value	Unit	5.5	8.5
NB AMEND PH RANGE IF NECESSARY*			
Electrical Conductivity (1:2.5 water extract)	µS/cm	--	1500
Electrical Conductivity (CaSO4 extract)	µS/cm	--	2800
Exchangeable Sodium Percentage	%	--	15
Organic Matter	%	4.0	8.0
Total Nitrogen	%	0.15	--
Carbon: Nitrogen Ratio	--	--	20:1
Extractable Phosphorus	mg/l	26	100
Extractable Potassium	mg/l	240	1200
Extractable Magnesium	mg/l	50	600

*IF AN ACIDIC SITE RANGE SHOULD BE 4.5-6.5 IF ALKALINE 7.5-8.5

9. **Ameliorant: fertilizer and compost (contractor is responsible for submitting a sample of imported or site-won topsoil to inform requirements).**
Topsoil amelioration to be determined by analysis. Once amelioration requirements ascertained as required, approved (peat free) composts to PAS100 and/or fertilizers to be incorporated during cultivation at required rate to full depth of growing medium.

10. **Soil handling and depths.**
Management of soils to be in accordance with the Construction Code of Practice for the Sustainable Use of Soils on Construction Sites
i. Topsoil and subsoil to be handled (i.e. excavated and/or imported, stored, spread, cultivated) in accordance with method agreed in writing by Landscape Architect prior to work commencing. All topsoil and subsoil areas shall be thoroughly cultivated by hand or suitable machinery to the full depth of the topsoil layer, incorporating ameliorants as required. If compaction is suspected in sub-grade, subsoil or topsoil surfaces, these should be ripped as necessary to decompact and ensure adequate drainage.
ii. Hand cultivations shall be carried out to achieve the required finish on areas where machine cultivation is impossible ie adjacent to kerbs, manholes and footpath junctions, around retained trees etc. Surplus plant matter, rubbish and surface stones having any dimension greater than 25 mm shall be collected and removed from the site. Topsoil and subsoil is to be stored in heaps, maximum of 2m in height, providing soil is reasonably dry and friable during stripping and handling - using a tracked excavator. To protect from wet weather once final height is achieved, an excavator should regrade the sides and top of stockpile to firm surface by tracking across it to form a smooth gradient.
iii. Final topsoil depth (allowing for settlement) to be 300mm for tree pits and general planting areas and 150mm for grass. Finished soil levels to be 25mm above/below adjoining paving or kerbs, not less than 150mm below dpc of adjoining buildings; shrub areas to be higher than adjoining grass areas by 25 mm. Topsoil to be spread in lightly compacted layers, max. 150mm depth, gently firm each layer before spreading the next.
iv. Where laying topsoil around manhole access covers in lawn and planting areas contractor to pay careful attention to laying topsoil in layers and gently compacting each layer (as item iii. above), leaving finished soil levels 25mm above access cover level. This is to avoid subsequent settling of soils leaving the cover proud of the adjacent planting bed or lawn. Contractor to allow for topping up and remediation during the defects period if settlement does occur.

11. **Plant handling and establishment.**
Plant handling shall be in accordance with 'Handling and establishing landscape plants', published by the CPSE through the JCL1 (<https://www.ceshub.com/wp-content/uploads/2014/12/The-National-Plant-Specification-Handling-and-Establishment.pdf>). The contractor shall comply with Part 3: Recommendations for plant handling from delivery to site to ensure successful establishment.

12. **General planting notes.**
Details for tree, hedge and general planting to be finalised once final site conditions are known (i.e compaction and permeability of ground). General plant stock to conform to BS 3936, advanced nursery stock to BS 8545, 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. All planting operations to be in general compliance with BS4428: 'Code of Practice for general landscape operations'.
Only carry out all planting while soil and weather conditions are suitable:
•? Do not plant during periods of frost or strong winds. Plant only during the following periods
•? Deciduous and conifer trees: Late October to late March (rootball and bare root)
•? Setting out of planting beds to be approved by Landscape Architect before work commences. Ensure that plant beds are neatly defined, and rise from adjacent paved areas as specified above. All tree pits, tree circles in lawn and planting beds are to be mulched with approved bark mulch to 75mm depth after planting.

14. **Plant biosecurity**
Plant procurement should follow the latest recommendations from DEFRA and landscape contractors should verify the status of all specified species prior to procuring. Plant material should be sourced from UK growers with a sound Biosecurity Policy and management systems that can demonstrate the traceability of their stock with plant health certificates / plant passports or other documentation (commensurate with the HTA Plant Health Assurance Scheme (still in development phase)). Selected plants, including trees should be propagated and grown on a UK nursery, or containerised and grown-on in the UK for a minimum of 5 years (trees) or 2 years (shrubs). Any Xylella host plants specified must come from a UK nursery and must not be imported from Europe or anywhere else in the world, directly to site. There must be full traceability on the Xylella host plants (ideally back to its origin). The contractor is responsible for checking compliance of growers and to submit their own Biosecurity Plan with their tender.

15. **Tree planting**
Any proposed substitutions of species shown on plan to be approved by landscape architect prior to planting. Details for tree planting to comply with BS8545. As a guide all trees to be planted in square pits with base undisturbed unless drainage / compaction problems known. Plant at a depth where the root flare is clearly visible at the soil surface. Where trees have been supplied with the root flare too deep excess soil or fibrous root growth should be removed before planting. All trees to have 'Piddler' free irrigation/eration system installed as supplied by Platipus 01737 762300 www.platipus-anchors.com or approved equivalent. Water-in heavily after planting and mulch surface, ensuring mulch is not in contact with trunk of tree. Tree support to comply with BS 8545: RB or CG trees to have double stake and bridge with adjustable tie; multi stemmed trees or trees on slopes to have angled single stake with adjustable tie; in windy locations or for large trees, install wired guying; tree stakes to be stained black. Trees to be underground guyed shall have suitable guying systems installed as supplied by Platipus 01737 762300 www.platipus-anchors.com or approved equivalent. Any necessary remedial tree works are to be carried out by an approved tree surgeon to BS 3998. Trees planted within grass areas to be set in mulched earth circles, 1m diameter around tree trunk, with turf trimmed neatly to form circle.
Trees up to 20cm girth.
Trees up to 150mm depth of specified topsoil over subsoil as per spec.

Depth of tree pits to be the same as the rootball and with overall width to be 150mm wider than the diameter of the rootball (75mm min. from rootball edge to tree pit side) CHECK DIMENSIONS OF ROOTBALLS FOR THE SIZE OF TREES YOU ARE SPECIFYING (SEE 'ROOTBALL DIMENSIONS' PDF IN F/SPECS) AND GIVE DIMENSIONS OF TREE PIT. Pits to be backfilled with 300mm depth of specified topsoil over subsoil as per spec.

16. **Specimen Shrubs.**
Depth of planting pit to be same as rootball, overall width space 100mm wider than rootball (50mm min. from rootball edge to sides of pit). Pit to be backfilled with 300mm depth of specified topsoil over subsoil as per spec. Fertiliser to be incorporated as required to ensure establishment and continued thriving of plants - type and application rate to be determined by analysis.

17. **Shrub and Ground Cover Planting.**
All plants to be planted into cultivated planting beds (with 300mm depth specified topsoil) at densities shown in plant schedule, backfilled with same topsoil. Fertiliser to be incorporated as required to ensure establishment and continued thriving of plants - type and application rate to be determined by analysis.

18. **Grass.**
Turfing and seeding shall be carried out only during appropriate seasons and while soil and weather conditions are suitable for the relevant operations. Only machinery and tools suitable for the site conditions and the work to be carried out shall be used. Hand tools shall be used around trees, plants and in confined spaces where it is impractical to use machinery. The soil shall be weed free prior to turfing and seeding. Contact herbicide as specified should be applied to all areas of weed growth 4-6 weeks before grasses and ground covers are to be laid down to maintain a weed free bed. Where deep rooted weeds are present (docks, thistles etc.) approved Glyphosate-based herbicide should be applied as a spot treatment. Turf or seed shall be laid on prepared, levelled soil (minimum 150mm depth) in the areas indicated on the drawings in accordance with BS 4428:1989 'Code of practice for general landscape operations'. All grass areas to be approved landscape quality turf for general amenity areas or lawn turf for garden areas, or equivalent seed.

19. **Root barrier.**
Root barrier system to be used in locations as indicated on plan. To be supplied by GreenBlue Urban 01424 717797 or other approved supplier. Thickness, size and depth of installation of root barrier to be to manufacturer's recommendations for particular circumstances.

- Notes:**
- All dimensions in millimetres unless otherwise indicated. All levels in metres relative to Ordnance Datum and are positive (AOD) unless otherwise indicated.
 - Figure dimensions only to be taken from this drawing. Dimensions and levels to be checked on site.
 - Scaling suitable for planning purposes only, when drawing is reproduced at indicated size.
 - The original version of this drawing was produced in colour at the indicated paper size and scale. Monochrome or scaled copies should not be relied upon to accurately reflect all drawing elements or display text at a legible size.
 - All civil/structural matters including but not limited to existing and proposed services, sub-base construction, site structures and retaining walls are subject to design/confirmation by an appropriately qualified Engineer. Refer to information by others.
 - This drawing has been prepared for planning purposes only and should not be used for quantification, tender or construction.
 - All materials to be as detailed or accepted equivalent.
 - Refer to accompanying specification where indicated.
 - Refer also to architectural and engineering drawings, as applicable.

- Site boundary
- Existing uncategoryed trees that will be retained and protected in accordance with BS 5837 recommendations.
- Existing grass to be retained
- Proposed amenity grass mix
- Proposed ornamental shrub planting
- Proposed tree

20. **Maintenance.**
Establishment maintenance for all planting for 5 years from Practical Completion to include weed control, watering and replacement of failures to original specification in the planting season following failure.
i. All plant material to receive annual pruning and hedges and groundcover to be trained and edged with minimum 2 trims per year.
ii. Check tree stakes and ties annually and after strong winds.
iii. Check shrub shelters at least twice annually to remove weeds and any soil build up inside tube. Shelters to be removed in year 3 and recycled.
iv. Topiary to be clipped into shape late spring, midsummer and early autumn.
vi. Lawn & amenity grass areas - Mowing is to be carried out using approved machinery to maintain the vegetation length within the limits of 30 mm and 50 mm during April to August inclusive and between 50 mm and 70 mm during the rest of the year.

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rev date by chk notes

0 2 4 6 m north

project
No. 501 Bursledon Road,
Southampton 2678

dwg no
2678-TFC-XX-XX-DR-L-3001

title
Soft Landscape

suitability
For Planning

stage
Stage 3

scale @ A1
1:100

terrafirma
LANDSCAPE ARCHITECTS

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