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WILLINGHAM TERRACE

SOFT LANDSCAPE

**Outline Specification and Plant Schedules
WTC-AS-9-800 REV A**

13.04.2015	Issued for Comments
19.05.2015	Issued for discharge of planning condition
08.07.2015	Additional tree species included following comments received from planners

1.0 - SOFT LANDSCAPE - OUTLINE SPECIFICATION

1.1 GENERAL

- Before starting work, all trees and shrubs to be retained shall be identified.
- Tree protection in accordance with British Standards (particularly BS 5837:2012 'Trees in Relation to Demolition and Construction' and sections 7 and 8) and to the Planning Authorities requirements.
- Existing trees and shrubs to be retained shall be located outside the site hoarding area for their protection.
- Do not dump soil or rubbish, excavate or disturb topsoil, change in levels of soil, park vehicles, store materials / plant machinery or place temporary accommodation within the Root Protection Area.
- Do not sever roots exceeding 25mm in diameter. Should the requirement to sever roots larger than 25mm dia. this work should be undertaken by a suitably qualified arboriculturalist.
- Do not change the level of ground within root protection area.
- All works to existing vegetation to be undertaken in accordance with BS 3998.
- Tree works to be undertaken by contractor competent for the type of work and to the approval of an Arboriculturalist. (List of local contractors usually available from the Local Authority Tree Officer).
- All works shall be undertaken in correct manner to protect legally protected fauna and flora.
- Any noxious, pernicious or white rooted weeds shall be removed (e.g. couchgrass, dandelion, creeping buttercup, Japanese knotweed, giant hogweed, convolvulus, ground elder, bracken, bramble, nettle, bamboo... etc) in accordance with relevant guidance and in consultation with Landscape Architect.

1.2 SOIL

1.2.1 Requirements after settlement:

- Tree pits: min. 600mm depth topsoil (see below)
- Shrub planting: min. 450mm depth topsoil
- Grass areas: min. 150mm depth topsoil

1.2.2 Supply:

- All topsoil to BS 3882:2007, Premium Grade Topsoil
- Locally sourced and compatible with the existing topsoil/subsoil.
- Subsoil to be well broken up before topsoiling.
- Of medium texture, reasonably free of stones (maximum size in any dimension 50mm) and free from contamination, subsoil, weed seeds and roots and any other foreign matter.
- Topsoil to be mounded up 100mm within 500mm of adjacent paving after settlement, excavate to allow topsoil to be mounded.

1.2.3 Preparation:

- All existing and new soil, to be treated with non residual herbicide allowing period of time to elapse as recommended by manufacturer prior to cultivation.
- Topsoil handling shall occur in the driest conditions possible to BS 3883 especially Annex D2.
- Cultivate topsoil to full planting depth and remove any compaction.
- 100mm depth/m² soil conditioner incorporated during cultivation of new topsoil, using one of the following products: dewatered ameliorated sewage sludge, composted bark, cocoa shell or coir, well-rotted horse manure or spent mushroom compost. **Do not use peat based products.**
- Grass areas: pre-turf fertiliser
- Planting areas: slow release fertiliser (Enmag) at 100 gm/sqm mixed into topsoil. Alginure (Seanure Soilbuilder) Soil Improver at 70g/m².
- Tree pits in planting: additional 80 litres peat-free planting compost and 100 gm slow release fertiliser. Tree pits in grass: 160 litres planting compost and 200gm slow release fertiliser. Alginure (Seanure Soilbuilder) Soil Improver at 1.5kg/m³ to tree pit backfill.
- Water retaining polymer to tree pits at 1g/litre of tree pit volume.

- When soil is reasonably dry and workable, grade to smooth flowing contours removing all minor hollows and ridges.

1.3 PLANTING WORKS

1.3.1 Plant supply and handling:

- Plants as specified in accordance with the National Plant Specification and supplied in accordance with the National Plant Specification and the HTA Nursery Certification Scheme.
- Plants are to be of British provenance where attainable, grown in a suitable environment and hardened off.
- All planting stock to be supplied to quality standards comparable to or exceeding standard required under BS 3936: 1992 part 1.
- Ensure that all plants are strong and sturdy with a balanced root and branch system, and are in good health, free from pests, diseases and damage.
- Plant handling in accordance with BS 4428/JCLI/CPSE Code of Practice for 'Handling and establishing landscape plants' Parts I, II and III.
- Undertake all work in appropriate climatic and ground conditions as per good horticultural practice.
- Ensure that all plants are adequately packed and protected, so that they survive transport without damage in loading, transit or unloading.
- Ensure that all plants are unpacked and heeled-in or planted on the same day as delivery. Before planting, protect on site from frost, desiccating wind and keep the roots moist.

1.3.2 Planting:

- Planting shall generally take place in the following seasons or maintenance increased to ensure plants thrive:
 - Deciduous plants, beginning November – end April
 - Evergreen plants, October / November or April
- Root dip: dip bare root plants in proprietary mycorrhizal gel prior to planting.
- Shrub pits: minimum size 300x300x300mm with pit bottom broken up to 150mm depth.
- Tree pits: 500mm diameter greater x 250mm deeper than rootball with slightly raised centre (minimum size 1.5m x 1.5m, or equivalent, x 750mm) and pit bottom broken up to a depth of 300mm (see details)
- Trees to be underground guyed ensuring all guying system manufacturer's recommendations are followed, avoiding damage to the rootball.
- Shrubs planted randomly but evenly in areas shown. Trees planted in locations shown on drawings.
- Water: thoroughly water trees and shrubs immediately after planting using a minimum of 50 litres per tree and 4.5 litres per shrub / whip.
- Mulch to be medium grade 20-60mm matured British conifer bark mulch of pH between 4.5 and 5.5 from Amenity and Horticultural Services Ltd to BS 4790:1987 (or equivalent approved):
- Lay 100mm bark mulch depth to ornamental shrub beds and tree pit surfaces.

2.0 - SOFT LANDSCAPE - PLANT SCHEDULES

2.1 TREES AND FEATURE MULTISTEM SHRUBS :

REF:	SPECIES AND CULTIVAR	COMMON NAME	SUPPLY GIRTH (CM)	SUPPLY HEIGHT (M)	CLEAR STEM HEIGHT (M)	DESCRIPTION	ROOT CONDITION	MINIMUM CONTAINER SIZE (LITRES)	STEMS
T1	<i>Acer campestre</i>	Field Maple	-	2.5-3.0	1.0	Multi-stem	C	100	3-4
T2	<i>Betula nigra</i>	River Birch	20-25	5-5.5	2 min	Standard (semi mature)	RB	-	-
T3	<i>Carpinus betulu 'fastigiata'</i>	Fastigate Hornbeam	18-20	4.5-5.0	2 min.	Standard (EHS)	RB	-	-
T4	<i>Prunus serrulata</i>	Japanese Cherry	20-25	5-5.5	2 min	Standard (semi mature)	RB	-	-
T5	<i>Amelanchier lamarckii</i>	Snowy Mespilus	-	3-3.5	-	Multi-Stem	C	250-300	4-5
T6	<i>Cornus kousa var. chinensis 'Wisley Queen'</i>	Chinese Dogwood 'Wisley Queen'	-	3-3.5	-	Branched	C	250	3-4
T7	<i>Magnolia x soulangiana</i>	Saucer Magnolia	-	3-3.5	-	Branched	C	250	3-4
T8	<i>Robinia pseudoacacia 'frisia'</i>	Robinia	16-18	4.0-4.5	2 min.	Standard (EHS)	C	-	-
T9	<i>Sorbus aria</i>	Mountain Ash	16-18	4.0-4.5	-	Standard (EHS)	RB	-	-
T10	<i>Zelkova serrata</i>	Japanese Elm	-	3.5-4.0	2.5	Multi-stem	C	300	3-4

2.2 Hedges :

REF:	SPECIES AND CULTIVAR	COMMON NAME	SUPPLY SIZE (CM)	ROOT CONDITION	PERCENTAGE OF MIX (%)	NOTES
H1	<i>Carpinus betulus</i>	Hornbeam	100	CG*	-	Supplied in 1m trough, as pre-grown mature clipped hedge
H2	Native Hedge Mix					
	<i>Crataegus monogyna</i>	Common Hawthorn	80-100	RB	70	-

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	<i>Corylus avellana</i>	Common Hazel	80-100	RB	5	
	<i>Cornus sanguineum</i>	Dogwood	80-100	RB	5	
	<i>Rosa canina</i>	Dog rose	80-100	RB	2.5	
	<i>Ilex aquifolium</i>	Common Holly	40-60	CG	2.5	
	<i>Ligustrum vulgare</i>	Common Privet	80-100	RB	5	
	<i>Viburnum opulus</i>	Guelder Rose	80-100	RB	10	

2.3 SHADE TOLERANT ORNAMENTAL PLANTING

REF:	SPECIES AND CULTIVAR	COMMON NAME	SUPPLY SIZE (CM)	ROOT CONDITION	MINIMUM CONTAINER SIZE (LITRES)	DENSITY (M2 unless otherwise stated)	NOTES
P1	<i>Anemone huphensis ver japonica</i>	Anemone	40-60	C	2	8	Flowers in Autumn and Summer
	<i>Astrantia major subsp. involucrata 'Shaggy'</i>	Great Masterwort	30-40	C	2	8	Flowers in Summer
	<i>Carex pendula</i>	Pendulous sedge	40-60	C	5	5	
	<i>Dryopteris affinis</i>	Scaly male fern	60-80	C	2	8	Semi-evergreen fern
	<i>Echinacea purpurea</i>	Purple coneflower	40-60	C	2	7-8	Flowers in Spring
	<i>Geranium 'Johnson blue'</i>	Geranium	30-40	C	2	7-8	Flowers in Summer
	<i>Heuchera 'Lime Ricky'</i>	Coral Bells	30-40	C	2	7-8	Flowers in Summer
	<i>Libertia Grandiflora</i>	New Zealand satin flower	60-80	C	5	7-8	Flowers in Spring and Summer
	<i>Liriope muscari</i>	Big blue lilyturf	30-40	C	2	7-8	Flowers in Autumn

2.4 GRASSES AND EVERGREEN PERENNIALS

SPECIES AND CULTIVAR	COMMON NAME	SUPPLY SIZE (CM)	ROOT CONDITION	MINIMUM CONTAINER SIZE (LITRES)	DENSITY (M2 unless otherwise stated)	NOTES
<i>Deschampsia flexuosa 'Tatra'</i>	Japanese Tassel	80-100	C	10	Allow for 8No.	To be used as focal features within

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SPECIES AND CULTIVAR	COMMON NAME	SUPPLY SIZE (CM)	ROOT CONDITION	MINIMUM CONTAINER SIZE (LITRES)	DENSITY (M2 unless otherwise stated)	NOTES
<i>Gold'</i>						communal garden. Allow for 8 No. to be located on site by Landscape Architect.
<i>Luzula sylvatica</i>	Great Woodrush 'Margarita'	80-100	C	10	Allow for 8No.	To be used as focal features within communal garden. Allow for 8 No. to be located on site by Landscape Architect.

2.5 LOW MAINTENANCE GROUNDCOVER SHRUB MIX TO BANKS

REF:	SPECIES AND CULTIVAR	COMMON NAME	SUPPLY SIZE (CM)	ROOT CONDITION	MINIMUM CONTAINER SIZE (LITRES)	DENSITY (M2 unless otherwise stated)	NOTES
P2	<i>Ajuga reptans</i> 'Catlins Giant'	Bugle	30-40	C	3	5	-
	<i>Rubus</i> 'Betty Ashburner'	Ornamental bramble	30-40	C	3	5	-
	<i>Pachysandra terminalis</i>	-	40-60	C	5	5	-
	<i>Vinca minor</i>	Lesser periwinkle	30-40	C	3	5	-

2.6 EDIBLE PLANT MIX TO RAISED ALLOTMENT BEDS IN COMMUNAL GARDEN

REF:	SPECIES AND CULTIVAR	COMMON NAME	SUPPLY SIZE (CM)	ROOT CONDITION	MINIMUM CONTAINER SIZE (LITRES)	DENSITY (M2 unless otherwise stated)	PERCENTAGE OF MIX (%)
P3	<i>Alliums</i> - 'Purple Sensation'	Ornamental onion	-	BULB	TOP SIZE	5	10
	<i>Rosmarinus officinalis</i>	Rosmary	40-60	C	5	3	30
	<i>Salvia officinalis</i>	Sage	30-40	C	3	3	30

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REF:	SPECIES AND CULTIVAR	COMMON NAME	SUPPLY SIZE (CM)	ROOT CONDITION	MINIMUM CONTAINER SIZE (LITRES)	DENSITY (M2 unless otherwise stated)	PERCENTAGE OF MIX (%)
	<i>Thymus x citriodorus</i> 'Silver Queen'	Thyme	30-40	C	3	7	10
	<i>Allium schoenoprasum</i>	Chives	40-60	C	3	9	10
	<i>Foeniculum vulgare</i>	Fennel	30-40	C	3	5	10