INDICATIVE SOFT LANDSCAPE SPECIFICATION

Generally
Prior to planting, all earth works associated with landscape operations are to be made good, top soil levels are to be graded to 50mm above back of kerb after settlement and mounded as appropriate in accordance with landscape design. All existing good quality top soil is to be incorporated into the landscape proposals where practicable.

All plant material, setting out and finished grading is to be checked and approved by the Employers Agent prior to commencement of planting.

All planting is to be carried out during the first appropriate planting season following completion of all hard landscape works.

All areas are to be thoroughly stone picked by hand before and after cultivations, with all stones >20mm removed along with all deleterious arisings.

All landscape areas should remain free from waste material and rubbish at all times.

No planting should take place whilst ground is frozen or water logged.

All planting should arrive to site free of any pernicious weeds/mcos/lichen.

All plant material is to be thoroughly watered before packaging for delivery, on the day of planting (before planting) and again immediately following planting using a fine rose sprinkler to the full depth of the roots.

All areas shall remain weed free both during construction and during the defects/maintenance period.

For more detailed information all landscape works should comply fully with the following British Standards:
BS 3882:2015 - Specifications for top soil
BS 3936,part 1:1992 - Nursery stock
BS 4043:1989 - Recommendations for transplanting root balled trees (withdrawn).
BS 4428:1989 - Code of practice for general landscape operations
BS 5837:2012 - Trees in Relation to Construction
BS 8545:2012 - Trees; from nursery to independence in the landscape

Sub Soil Preparation
Loosen light, non-cohesive soils with a fine 3 tine ripper, 300mm deep at 600mm centres in two oblique directions; loosen stiff clays and other cohesive sub-soils with a single tine ripper, 450mm deep at 100mm centres in two oblique directions.

Top Soil Preparation
Spread topsoil over prepared sub-soil in layers not exceeding 150mm depth and firm each layer before spreading the next. Overall minimum depths after fiming and settlement shall be:

Wildflower grass mixes may require 50mm depth of sterile compost to ensure maximum take up of seed
Shrub Areas: 450mm
Tree Areas: 900mm (minimum)

Imported top soil shall be to BS 3882 premium grade from a source approved by the Employer's Agent. A declaration of analysis including relevant parameters given in BS 3882 shall be submitted to the Employer's Agent prior to delivery to site.

Root Barrier Installation
Main contractor is to install root barriers as required during construction and installation of all new services. Root barriers are to be installed as close as possible to all service runs.

All root barriers are to be installed in accordance with the following guidance from Greenleaf Urban Tree and Landscape Products:

'Root barrier installations are designed to protect the tree (preventing delicate root systems from being massacred by excavation machinery) as well as the utility infrastructure. We specify the use of a proven high strength (minimum thickness 1.0mm - Re/k210) Greenleaf HDPE root barrier in all locations. The barrier should be installed as close to the utility as possible (maximizing rooting area for the tree) and if possible, in new service infrastructure projects, be installed in the same trench (against the side of the trench nearest the tree) at the same time as the utility is being laid.

All utilities should be protected (in accordance with the following depth guidance) with the exception of electrical cabling concealed within solid plastic conduit which does not usually require protection. Generally the majority of root growth is found within the top 600mm of the soil surface, therefore all utilities up to a maximum depth of 600mm should have a root barrier installed to 300mm below invert level as protection for both the services and the trees themselves. For services at a depth of between 600-900mm a root barrier should be installed at the same depth as the invert level.

Tree roots are not commonly found deeper than 900mm below the surface however, in some circumstances this can occur. Therefore services at a depth of 900-2000mm should be protected only when specifically requested by the individual service provider, and using a root barrier installed at a depth equal to the invert level. Lastly, utilities deeper than 2000mm only require protection in extreme circumstances and where specifically requested'.

Tree Planting
All tree pits within soft landscape areas should be excavated in accordance with the size and containment of the tree root system on arrival at site. Typically tree pits should be 2 - 3 times the with of the root ball/ root spread, and to the depth of the rootball/ root system. The root flare of the tree, which should also be the soil level it has been growing at in the dursery should match the level of the top of the tree pit excavated. although settling the planting level 25-50mm above this would allow for settlement. This can be achieved by creating a lightly domed/slated mound at the base of the pit to plant roots over and set the level of the pit.

All tree pits should be prepared and topsoil installed at the appropriate time during construction to avoid abortive works. Once tree pits have been constructed they are to be capped using temporary semi permeable membrane on tree pit surface to allow soil to breathe, water to permeate tree pit and prevent contamination during further construction works.

No tree planting is to take place until all hard works are complete.

Where practicable trees pits should be excavated to provide continuous length of improved quality tree backfilling material as detailed below.

Trees should be staked in full accordance with details and specification provided. Abrasion shall be avoided by using a spacer between the tree and the stake. Biodegradable tree ties will be used and these re-checked during the defects period and adjusted/replaced as necessary to allow for growth.

All tree pits are to be backfilled with approved quality top soil, mixed with tree planting/mulching compost, fertiliser/slimiorisant and moisture retentive granules to the following quantities per each tree pit:

250L Tree Planting Compost
150gms SAI Ezmag
800gms Broadleaf P4

The above backfill mixture shall be prepared away from the planting area and in sufficient quantity for efficient handling and use. All compost shall be moistened to between 30-40% water content. For bare root specimins, shake the tree as you backfill to encourage good soil contact between the roots. Firm soil to lightly consolidate the backfill in layers of 150 - 200mm

Shrub/Herbaceous Planting
As scheduled, all ornamental planting is to be planted evenly to the densities indicated.

Rotovate and/or double dig 400mm deep (shrub areas), 800mm deep (tree areas) remove stones, clay balls exceeding 50mm width, roots, grass, tufts, and foreign matter.

Each pit shall be backfilled with approved quality top soil, mixed with tree planting/mulching compost, fertiliser/amelioarnt and moisture retentive granules to the following quantities per each plant:

Ornamental Shrubs/Herbaceous:
10L Tree Planting Compost
50gms SAI Ezmag
50gms Broadleaf P4

Specimen shrubs:
40LTree Planting Compost
70gms SAI Ezmag

100gms Broadleaf P4

The above backfill mixture shall be prepared away from the planting area and in sufficient quantity for efficient handling and use. All compost shall be moistened to between 30-40% water content.

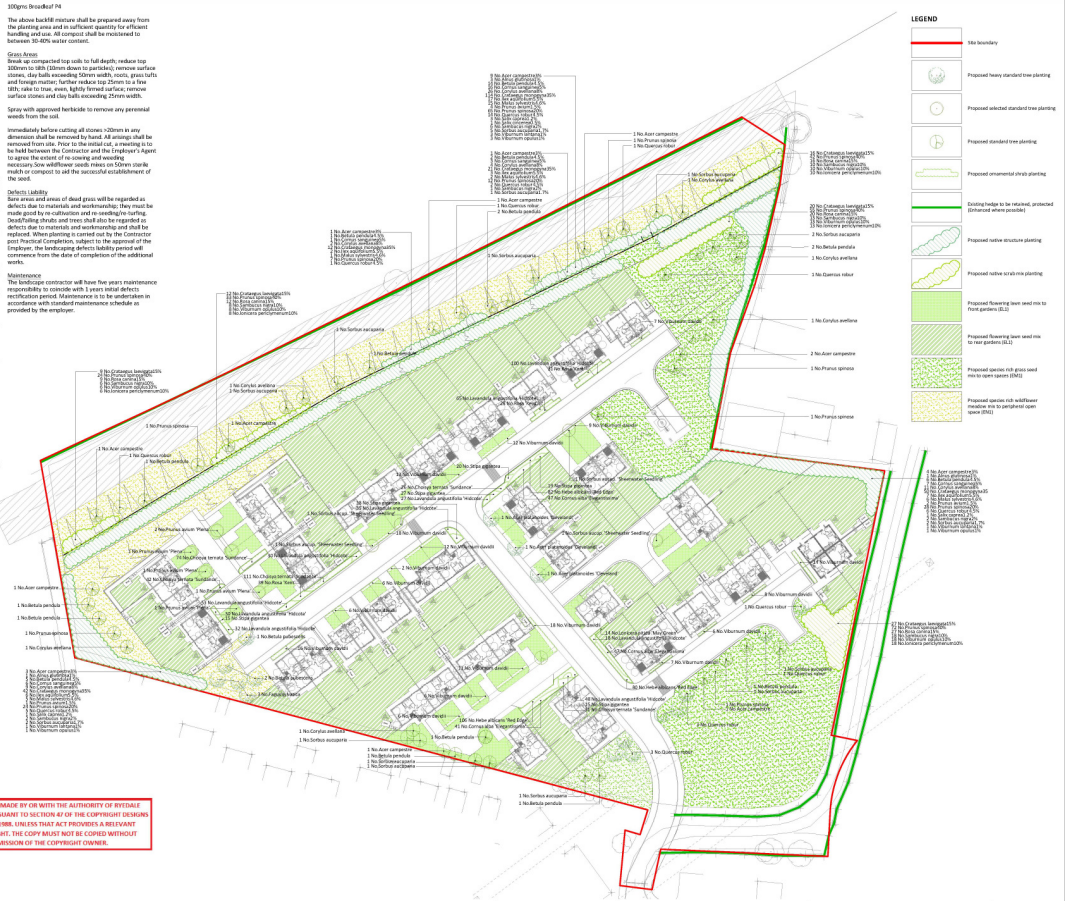
Grass Areas
Break up compacted top soils to full depth; reduce top 100mm to tilth (10mm down to particles); remove surface stones, clay balls exceeding 50mm width, roots, grass tufts and foreign matter; further reduce top 25mm to a fine tilth; rake to true, even, lightly firmed surface; remove surface stones and clay balls exceeding 25mm width.

Spray with approved herbicide to remove any perennial weeds from the soil.

Immediately before cutting all stones >20mm in any dimension shall be removed by hand. All arisings shall be removed from site. Prior to the initial cut, a mowing is to be held between the Contractor and the Employer's Agent to agree the extent of re-sowing and weeding necessary.Sow wildflower seeds mixes on 50mm sterile mulch or compost to aid the successful establishment of the seed.

Defects Liability
Bare areas and areas of dead grass will be regarded as defects due to materials and workmanship; they must be made good by re-cultivation and re-seeding/re-turfing. Dead/Failing shrubs and trees shall also be regarded as defects due to materials and workmanship and shall be replaced. When planting is carried out by the Contractor post Practical Completion, subject to the approval of the Employer, the landscaping defects liability period will commence from the date of completion of the additional works.

Maintenance
The landscape contractor will have five years maintenance responsibility to coincide with 3 years initial defects rectification period. Maintenance is to be undertaken in accordance with standard maintenance schedule as provided by the employer.



Planting Schedule

Trees

		Height	Girth	Specification
6 No.	Prunus spinosa	3-4	Multi	Heavy
4 No.	Betula pendula	3-4	Multi	Heavy
7 No.	Corylus avellana	3-4	Multi	Heavy
14 No.	Quercus robur	3-4	Multi	Heavy
4 No.	Acer campestre	3-4	Multi	Heavy
4 No.	Sorbus aucuparia	3-4	Multi	Heavy
9 No.	Acer campestre 'Elsrijk'	3-4	Clear stem	Heavy Standard
9 No.	Acer platanoides 'Emerald Queen'	3-4	Clear stem	Heavy Standard
9 No.	Betula utilis jacquemontii 'Snowqueen'	3-4	Clear stem	Heavy Standard
9 No.	Sorbus aucuparia	3-4	Clear stem	Heavy Standard
6 No.	Prunus avium 'Plena'	3-4	Clear stem	Heavy Standard

Shrubs

	Plant Species	Pot Size	Specification	Density
948 No.	Cornus alba 'Sibirica Variegata'	3L	Bushy, 3 Stk	4/m2
948 No.	Viburnum tinus 'Eve Price'	3L	Bushy, 3 Stk	4/m2
948 No.	Euonymus fortunei 'Emerald Gaiety'	3L	Bushy, 3 Stk	4/m2
948 No.	Rosa 'Kent'	3L	Bushy, 3 Stk	4/m2

Herbaceous

	Plant Species	Pot Size	Specification	Density
141 No.	Iris 'Blue Eyed Girl'	2ltr	Cell 1 No.	6/m2
141 No.	Geranium 'Rozanne' (May Grandiflorum)	2ltr	Cell 1 No.	6/m2
141 No.	Rosa 'Kent'	2L	Bushy, 2 Stk	6/m2

Wildflower Mix 1

	Plant Species	Height	Specification	Density
4 No.	Acer campestre	450/600	Bare root	1/m2
4 No.	Betula pendula	450/600	Bare root	1/m2
4 No.	Corylus avellana	450/600	Bare root	1/m2
4 No.	Cornus sanguinea	450/600	Bare root	1/m2
4 No.	Crataegus monogyna	450/600	Bare root	1/m2
4 No.	Ilex aquifolium	450/600	1ltr pot	1/m2
4 No.	Prunus avium	450/600	Bare root	1/m2
4 No.	Salix cinerea	450/600	1ltr pot	1/m2
4 No.	Sorbus aucuparia	450/600	Bare root	1/m2
4 No.	Taxus baccata	450/600	1ltr pot	1/m2
4 No.	Ulex europaeus	450/600	1ltr pot	1/m2
4 No.	Viburnum opulus	450/600	1ltr pot	1/m2
4 No.	Quercus robur	450/600	1ltr pot	1/m2
4 No.	Fagus sylvatica	450/600	1ltr pot	1/m2
4 No.	Sambucus nigra	450/600	1ltr pot	1/m2
4 No.	Rosa canina	450/600	1ltr pot	1/m2
Total: 44 No.				11/m2

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Rev.	Description	By.	Chk.	Date.
-	-	-	-	-

Scale Bar - 1:500 @ A1

NOTES - IF IN DOUBT, ASK
1. Do not scale directly from this drawing.
2. All dims are in millimetres.
3. All levels are shown in metres. Above Ordnance Datum (AOD).
4. All levels and dimensions are to be checked on site by the contractor prior to commencing any works or ordering any materials.
5. This drawing is to be viewed in conjunction with all other relevant drawing and specifications from all members of the design team.
6. Any conflicts/discrepancies are to be highlighted to Southern Green prior to commencing works or ordering any materials.

CDM - SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
Principal Designer:
The following residual risks/risks normally associated with the types of work detailed on this drawing, were the following project specific risks which require attention/mitigation by the contractor undertaking the works:

Construction: (add notes) or (none identified)
Maintenance / Viewing: (add notes) or (none identified)
Decommissioning / Demolition: (add notes) or (none identified)

It is assumed that all works will be carried out by a competent contractor, working where appropriate, to their own approved method statement. This is not an exhaustive list and reference must be made to the Construction Phase Plan or Health and Safety file and any additional Risk Assessment documents available.

1079_Rainbow Lane, Peasey Hill

Drawing Issue Status

X	Planning Approval		Contract
	Costing		Construction
	Planning		As-Built/Final
	Tender		Info

Detailed Planting Proposals

1079/002		Rev -
1:500 @ A1	20.12.17	YO17 6SG

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