

SUMMARY PLANTING SPECIFICATION

These implementation and maintenance guidelines are for planning purposes only to indicate the level of workmanship to be specified and do not constitute a detailed specification.

1. GENERAL

- All landscape operatives will be appropriately trained, certified and qualified to undertake the tasks required. When required, the relevant certificates will be made available for inspection. All work is to be carried out in accordance with the relevant British Standards, Codes of Practice and Legislation.
- All plants shall conform to BS 3836 and be in accordance with the National Plant Specification. Supplying nurseries shall be registered under the NTA Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE.
- Planting shall not be carried out when the ground is waterlogged, frost bound or during periods of cold drying winds. All bare-root planting shall be kept covered until actually planted in order to minimise water loss and prevent the roots from drying out. Tree handling, storage and planting shall be in accordance with BS 8546 Chapters 9 to 10 and Annexes E to F.
- The landscape contractor shall maintain all areas of new planting for a period of 12 months following practical completion. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.

2. TREE PLANTING

Ground Preparation and Tree Pit Excavation

- Where necessary treat existing weeds with a glyphosate based herbicide and allow a suitable period to elapse as recommended by the manufacturer, for the herbicide to take effect.
- Tree pits of at least 75mm diameter greater than the root system and no deeper than the rootball/containment depth are to be excavated and the sides well scarified to prevent encasing. All extraneous matter such as plastic, wood, metal and stones greater than 50mm in any dimension shall be removed from site.
- During excavation of the pit, the soil dug should be placed to one side separating topsoil and subsoil as far as is practical.
- Tree Planting**
- Trees shall be planted as per the planting arrangement as set out on the planting plan and plant schedule.
- The typical rooting depth for trees is 800mm. The first 300mm shall be made up of topsoil, it shall be ensured that a suitable subsoil provides the remainder of the minimum rooting depth.
- The root system of the tree should be wetted prior to planting. The tree should be planted at the correct depth taking into account the position of the root flare and the finished level - the rootball or root stem transition should be level with the existing hose soil or surface. The base of the rootball should typically sit on subsoil, for larger rootballs the subsoil will sit around the lower portion of the rootball.
- Tree girths should be scarified with the excavator bucket, if the original topsoil is not available or deemed unsuitable, a multipurpose topsoil should be used. Any retained excavated soil should be discarded and the subsoil depth (beyond 300mm deep) backfilled with a high sand content subsoil. Backfill should be added gradually, in layers of 100mm to 200mm depth, ensuring the tree is held upright! At each stage the fill should be firmed to its ultimate air dry condition, unless and around the root system, but with care being taken not to excessively compact the soil. The final layer should not be consolidated.

- General-purpose slow release fertiliser (at the rate of 75g/m²) and Tree Planting and Mulching Compost at the rate of 200g/m² are to be incorporated into the top 150mm of topsoil during final cultivations.
- Extra heavy standard trees shall be double staked staked with 75mm dia stakes. Stakes should be driven at least 300mm into undisturbed ground before planting the tree, taking care to avoid underground services and cables etc. and should typically be one third the height of the tree stem above ground.
- Trees shall be secured to stakes with suitable proprietary rubber tree ties and spacers.
- Immediately after planting, but before applying the below bark mulch, all trees should be secured to hold capacity. Commercial composted bark mulch will be spread to a depth of 75mm across a 1.0m dia circle around individual trees, ensuring the root flare and base of the stem, along with any ground cover plants, are not buried.

Maintenance

- In the autumn following planting the CA-landscape contractor will prepare a list of all trees which are dead, dying or diseased and are to be replaced during the following planting season. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.
- The site is to be visited monthly throughout the year to undertake the following operations:
 - Weed clearance: All less jobs are to be kept weed free by hand weeding or herbicide treatment. The bark mulch shall be topped up at least once annually.
 - Litter clearance: All litter is to be removed from tree planting areas.
 - Watering: All trees are to be watered during the growing season following any dry periods of 7 days.
 - Checking trees: All tree ties and stakes are to be checked and adjusted if too loose, too tight or if chaffing is occurring. Any broken stakes are to be replaced. All girths, girths and gaskets shall be checked at least once annually, where no longer necessary or physically damaging the tree stems should be removed.
 - Formative pruning: Any damaged shoots/branches are to be pruned back to healthy wood. Trees are to be pruned in accordance with good horticultural practice (BS 3888) to maintain healthy well-shaped specimens which are appropriately shaped for their circumstances.

3. SHRUB PLANTING

- Shrub plants are to be set out as shown on the drawing and pit planted into the prepared soil at the specified densities with minimal disturbance to the rootball and well firmed in.
- Recommended rooting depths are 600mm for shrub plants. Multi-purpose topsoil depths shall be 300mm for shrubs, ensuring that a suitable subsoil shall provide the remainder of the minimum rooting depth. Before receiving topsoil, subsoil should be loosened using ripping equipment. This shall be done when the subsoil is dry to encourage soil aeration. All stones and other objects larger than 50 mm shall be removed from the prepared surface.
- Within the day of planting shrub plants should be saturated to field capacity. This shall be done before applying the below bark mulch.
- Spread commercial pine bark mulch to a depth of 75mm across all new plant areas, taking care not to bury groundcover plants.

4. ORNAMENTAL HERBES

Ground Preparation

- Where necessary existing weeds will be treated with a glyphosate-based herbicide and a suitable period allowed to elapse as recommended by the manufacturer, for the herbicide to take effect. All extraneous matter such as plastic, wood, metal and stones greater than 50mm diameter will be removed from site to a registered waste disposal facility.

Planting

- The planting arrangement shall be as set out in the plant schedule on the relevant planting plan.
- Bare-root hedge plants shall be notch planted in a double staggered row at the rate of 6 plants per linear metre (using U-shaped notches) using spades at a depth suitable for this purpose. The notches must be vertical and deep enough for the roots to hang freely, with the transverse facing planted so that the root collar is exactly level with the ground surface. The roots must then be closed and the soil well firmed round the roots. In line with the guidelines as set out in BS 4428 (1988).
- All bare-root hedge planting stock will be protected from rabbit damage using approved proprietary rabbit clear plastic cover guards, supported with 0.6m 12x40b canes as advised by the manufacturer.

Maintenance during first growing season

- All dead, dying or diseased hedge plants will be replaced with plants of similar size and species. If the failure of the plant is due to disease and the disease is considered likely to re-occur then an alternative species may be used as replacement if agreed with the LPA.
- The planting area will be kept weed free throughout the maintenance period using approved herbicides in April, June and August.

5. ANNUITY GRASSES

Preparation

- Areas to be sown or seeded shall be covered with a glyphosate herbicide and cultivated to a depth of 100mm removing all weeds, debris and stones over 20mm diameter. The surface shall be level to within 10mm of a 2m square. Anemity grass areas will receive pre-seeding fertiliser at 70 g/m². Meadow grass areas will not be fertilised.
- The minimum overall recommended rooting depth for grass is 400mm, the first 100mm shall be made up of a multipurpose topsoil, it shall be ensured that a suitable subsoil shall provide the remainder of the minimum rooting depth. Before receiving topsoil, subsoil should be loosened using ripping equipment. This shall be done when the subsoil is dry to encourage soil aeration. All stones and other objects larger than 50 mm shall be removed from the prepared surface.

Turf

- Turf shall be supplied in accordance with BS 5386. It shall be clear of stones and green in colour and be sufficiently firm to withstand handling. Turf shall be regular in shape, 200mm wide and of uniform thickness (minimum 25mm). The grass shall be clearly marked and shall not exceed 25mm in height. Turf shall be checked in place of up to 1 metre. If it will not be laid in frost or waterlogged conditions and shall not be checked or sown for more than three days. Turfing operations shall be in accordance with BS 4428. Where grass shall be laid around the perimeter of the area to be turfed. The turfed area shall be laid at rows with staggered joints, well firmed together working from the perimeter inwards on curves already laid. The turf shall be sown on completion. Any unseasoned turf shall be made good by filling the turf and setting the levels. Should drainage occur, the topsoil shall be laid into the joints.

Seeding

- Grass seed shall be sown either in April/May or September/October during calm weather and not when the ground is frost bound or waterlogged. Seed shall be sown in two equal sowings in the respective directions at 30 g/m² for anemity grass. After sowing the contractor shall lightly rake the seed into intimate contact with the soil.

Watering

- When newly seeded anemity grass areas reach 20mm they should be lightly rolled and cut to a height of 25mm. All anemity grass shall be removed. Any bare patches shall be made good at this time. Anemity grass shall be regularly maintained between 25 and 220mm during the 1st season after seeding.



KEY

- Existing Tree to be retained - in accordance with BS5837:2012
- Proposed Trees
- Proposed Hedgerow
- Proposed Shrub Planting
- Annexity Grass
- Litter Bin - cylindrical steel framed hardwood timber litter bin, to be in-ground fixed eg. 142 x 115 x 115 (150l capacity) supplied by Orchard Street Furniture.
- Seal - 1.8m length hard wood timber seal with backrest, to be in-ground fixed suitable for 4 people, eg. Excess Seat supplied by Orchard Street Furniture.
- Picnic Bench - 1.8m length hard wood timber picnic bench, to be in-ground fixed suitable eg. Conference Table supplied by Orchard Street Furniture.
- Play equipment - refer to play specification
- Play surfacing - to be bound rubber mulch suitable for childrens play (eg. TigerMutch) and laid to the critical fall heights and extend as specified by the manufacturer. All play safety surfaces to be laid to BS EN 1176 + BS EN 1177. The rubber mulch surfaces will be a mix of two naturalistic colours eg. 50/50 mix of green and brown.
- Earth mounding - gradient to be max 1:3 with play spaces, max 1:6 adjacent to sports pitches, contours to be smooth flowing
- Proposed 1.0m high bow top railing with self closing single leaf gates - to be outward opening and self-closing across gates. To have a minimum 1.2m width opening, self closing mechanism to be hydraulic based. Gates are to be constructed from galvanneal steel and are to be powder coated in contrasting colour from the railings.
- Maintenance/double leaf gate to comprise 2 no. pedestrian gates (opening outwards) with central drop bolt - to have a minimum 2.5m width opening and will match style of fencing. Gates are to be lockable, to be constructed from galvanneal steel and are to be powder coated to match the railings.
- Proposed information board located at entrance to play space as shown on plan. The board are to be timber in construction and are to conclude the following information:
 - information on the space
 - operational information (rules of the space)
 - name and telephone number of the operator of the facility with an invitation to report any incident or damage
- No dogs sign to be located within footpath as users enter the play space.
- Existing Drainage/Utilities to be left in situ
- Tree root barrier system - to be confirmed dependent on depth of foul sewer/surface water run off sewer, extent and depth to be defined as per Engineers specification.

PLANTING SCHEDULE

TREE PLANTING

Species	Form	Height	Width	Clear Stem	Root Condition	Quantity
Betula utilis 'Jacquemontii'	ENS	14-16	425-400cm	Min 200cm	75 L	2
Magnolia stellata	SSB	14-16	300-200cm	175-100cm	75 L	1
Sorbus aria	ENS	14-16	425-400cm	Min 200cm	75 L	2
Tilia cordata	ENS	14-16	425-400cm	Min 200cm	75 L	1

HEDGEROW PLANTING

To be planted at 6/linear metre, in a double staggered row, 0.4 offset between rows.

Species	Height / Spread cm	Age / Times Transplanted	Notes	Root Condition	Quantity
Fagus sylvatica	150-175	1-2		Feathered	8

ORNAMENTAL PLANTING

Species	Height / Spread cm	Substr	Root Condition	Planting Density /m ²	Quantity
Ceanothus 'Skylark'	30-40	Bushy	3L C	3	8
Chaenomeles speciosa 'Moerloosei'	30-40	Bushy	3L C	3	17
Choisy ternata 'Sundance'	150-200	Multi-stem	B	Counted	1
Chaenomeles speciosa 'Moerloosei'	45-60	Spineshed	3L C	3	17
Choisy ternata 'Sundance'	30-40	Bushy	3L C	3	17
Cornus alba 'Elegantissima'	35-40	Bushy	3-7.5L C	3	5
Cornus sanguinea 'Midwinter Fire'	30-40	Bushy	3-7.5L C	3	17
Deschampsia cespitosa 'Goldtau'	n/a	n/a	3L C	3	5
Hebe rakaiensis	30-40	Bushy	3L C	3	8
Hebe 'Mrs Winder'	30-40	Bushy	3L C	3	14
Rudbeckia 'Goldstrum'	n/a	n/a	3L C	3	8
Spiraea japonica 'Goldflame'	30-40	Bushy	3L C	3	8

Note: all planting should avoid main-made grids and lines, and should group species together in groups of 3-5 plants



1 - Ibono Albatros with net
Age 3+ years
Supplier: Eibe

Note: Equipment to be relocated from Phase 2 play space. Re-installation to be completed as per manufacturers specification.

2 - Carousel
Age 4+ years
Supplier: Kampan (NR0109)



3 - One Seat Swing (Toddler)
Age 1+ years
Supplier: Kampan (NR0902)



4 - Two Seat Swing
Age 3+ years
Supplier: Kampan (NR0904)



Revisions:
First Issue- 06/12/2017 RVF
A- [08/03/2018 ASK] Equipment revised to client comment
B- [27/04/2018 RVF] Equipment revised to client comment
C- [03/09/2018 RVF] Gate information revised to LPA comment

Detailed Landscape Proposals - Roper Road Play Area (Sheet 1 of 4)

Heyford Park - Existing Open Spaces

Client: Dorchester Group
DRWG No: **D.0341_138** Sheet No: **1** REV: **C**
Drawn by: RVF/ARW/ASK Approved by: RVF
Date: 03/09/2018 **Pegasus**
Scale: 1:200@A3 Design

