

Play Specification



1. Agility Trail
Age: 6+ years Skills: Agility, balance, co-ordination and climbing
Ref. Kompan NR0860



2. Embankment wide slide
Age: 3 - 11 years Skills: Exhilarating movement, sharing and sliding fun
Ref. Playdale EWSL



3. Embankment scramble net
Age: 6 - 12 years Skills: Agility and climbing
Ref. Playdale EMSN



4. Embankment rope ramp
Age: 3 - 12 years Skills: Balance, co-ordination and agility
Ref. PLAYdale EMR



5. Log walk
Age: 18 month - 6 years Skills: Balance and co-ordination
Ref. Playdale WWS



6. Dragonfly play sculpture
Age: 2+ years
Ref. Handmade Places BX/HMP 350007



7. Waterlilies Balance Post
Age: 4+ years
Ref. Kompan NR0820



8. Totem poles (4no.) by Handmade Places
Age: 2+ years
Ref. BX/HMP 750004 (Sight & Colour)
Ref. BX/HMP 750005 (Sound & Hearing)
Ref. BX/HMP 750007 (Taste & Smell)

KEY

- Existing Tree to be retained - in accordance with BS5837:2012
- Proposed Feature Trees
- Proposed Trees
- Proposed Hedgerow
- Proposed Shrub Planting
- Amenity Grass
- Wildflower Meadow Grassland eq. EM1 Basic General Purpose Meadow Mixture supplied by Emoragale or similar approved alternative. To be sown as per manufacturer's specification.
- Bulb planting
- Hard surfaced footpath - hoggin/rolled gravel footpath with pcc edging.
- Litter Bin - cylindrical steel framed hardware timber litter bin, to be in-ground fixed eq. Macintyre Litter Bin 11581 capacity supplied by Orchard Street Furniture.
- Dog Bin - supplied by Orchard Street Furniture.
- Bench - 1.8m length hardwood timber seat with armrests and backrest, to be in-ground fixed, suitable for 4 people eq. Coxes Seat supplied by Orchard Street Furniture.
- Picnic Bench - 1.8m length hard wood timber picnic bench, to be in-ground fixed suitable eq. Conference Table supplied by Orchard Street Furniture.
- Proposed 1.0m high bow top railing with self closing single leaf gates - to be inward opening and self-closing access gates. To have a minimum 1.2m width opening, self closing mechanism to be hydraulic based. Gates are to be constructed from galvanised steel and are to be powder coated in contrasting colour from the railings.
- Maintenance/double leaf gate to comprise 2 no. pedestrian gates 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 galvanised steel and are to be powder coated to match the railings.
- Play equipment with unit boundary - refer to play specification
- Play surfacing - Recycled bonded rubber eco-mulch safety surfacing in green and laid to the critical fall heights and extend as specified by the manufacturer. All play safety surfaces to be timber in construction and is to conclude the following information:
- information on the space
- operational information (rules of the play)
- 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
- Waymarker signpost adjacent to amphitheatre seating to indicate direction of Roger Road and Carswell Circle & Play Spaces, and Village Green eq. FSC Certified hardwood timber sign post by Woodscape with text.
- Hibernacula / Bug Hotel to be located close to trees within meadow grassland.
- Ecological interpretation boards within meadow grassland. Text to explain to users the ecological merits of the space to form a nature trail.
- Play totem pole/nature post - 1.5m height, interactive and tactile timber totem post with nature engravings, themes to include taste & smell, touch & movement and sight & colour supplied by Handmade Places.
- Foul water sewer to be adopted, shown with adoptable drainage protection strip, refer to Section 104 engineering layout prepared by Woods Hardwick dwg ref. HEYF-5-982 C
- Proposed surface water drainage to be adopted, shown with drainage protection strip for areas covered by Central Diversion Works, refer to Section 104 engineering layout prepared by Woods Hardwick dwg ref. HEYF-5-982 C
- Telegraph Pole (with overhead wires)
- Tree root barrier system - to be confirmed dependent on depth of foul sewer/surface water run off sewer, extent and depth to be confirmed as per Engineers specification.



Refer to drawing 1619 A3 02 F prepared by Liz Lake Associates for detailed planting proposals for street trees and verges

Sub-station improvements to be proposed as part of separate application

Refer to drawing 02-01-PH-58-102 for Planning Layout (Phase 5) prepared by Focus Design for this area.

Refer to drawing 1619 A3 02 F prepared by Liz Lake Associates for detailed planting proposals for this area.

For detailed planting proposals refer to inset 1

Refer to drawing 1619 A3 02 F prepared by Liz Lake Associates for detailed planting proposals for this area.

Clearing of amenity grass within meadow grassland to lead users to play items

LAP with informal play elements including totem poles to add interactive and educational element to the space.

Maintenance gate

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

1.1 All landscape operations 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 to be carried out in accordance with the relevant British Standards, Codes of Practice and Legislation.

1.2 All plants shall conform to BS 2739 and be in accordance with the National Plant Specification. Supplying nurseries shall be registered under the RFA Nursery Certification Scheme. All plants shall be checked and transported in accordance with the Code of Practice for Plants Handling as produced by CPSE.

1.3 Planting shall not be carried out when the ground is waterlogged, from bound or during periods of cold strong winds. All bare-rooted plants 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 6858 Chapters 1 to 3 and Annexes E & F.

1.4 The landscape contractor shall maintain all areas of new planting for a period of 12 months following practical completion. All stumps deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.

1.5 A minimum intervention approach will be used in terms of weed control. In areas of transient tree/shrub or ornamental shrub planting this to be achieved by using mulch mats and hand weeding. Weed killer and other chemicals will be used as little as possible on site. Spot removal of weeds will be carried out by hand removal as necessary.

2. TREE PLANTING

2.1 General Preparation and Tree Pit Excavation

2.1.1 Where necessary remove existing weeds by hand. Chemical removal using a glyphosate based herbicide will be avoided unless large areas need clearing - following which allow a suitable period to elapse, as recommended by the manufacturer for the herbicide to take effect.

2.1.2 Tree pits of at least 750mm diameter greater than the root system and no deeper than the rootball / container depth will be excavated with the sides well sloped to prevent slumping. All ornamental mulch such as plastic, wood, metal and stones greater than 50mm in any dimension shall be removed from site.

2.1.3 During excavation of the pit, the soil dug should be placed to one side separating topsoil and subsoil or as a practical.

2.1.4 Tree planting

2.1.5 Trees shall be planted as per the planting arrangement as set out on the planting plan and plant schedule.

2.1.6 The typical rooting depth for trees is 900mm. The first 300mm shall be made up of topsoil, it shall be ensured that a suitable substrate provides the remainder of the minimum rooting depth.

2.1.7 The top system of the tree should be earthed prior to planting. The tree should be planted at the correct depth taking into account the position of the root face and the finished level - the rootball or root stem position should be fixed with the existing floor or surface. The base of the rootball should typically sit on subsoil, for larger rootballs the subsoil will be around the lower portion of the rootball.

2.1.8 Tree pits should be backfilled with the excavated topsoil, if the original topsoil is not available or deemed unsuitable, a multi-purpose topsoil should be used. Any subsoil excavated should be discarded and the subsoil depth beyond 200mm deep backfilled with a high sand content subsoil. Backfill should be added gradually in layers of 150mm to 200mm depth, ensuring the tree is held upright. At each stage the soil should be firm to its minimum at all points under and around the root system, but with care being taken not to compress the soil. The final layer should not be consolidated.

2.1.9 General purpose slow release fertiliser (at the rate of 25g/m²) and Tree Planting and Mulching Compost at the rate of 200g/m² are to be incorporated into the top 150mm of topsoil and during final installation.

2.1.10 Selected standard trees will be protected from rabbit and deer damage by fitting appropriate tree guards.

2.1.11 All trees having standard size trees are to be double 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 to avoid being blown over.

2.1.12 Staked trees shall be secured to stakes with suitable proprietary rubber tree ties and secures.

2.1.13 Immediately after planting, but before applying the below bark mulch, all trees should be saturated to field capacity.

2.1.14 Ornamental composted bark mulch will be spread to a depth of 75mm across a 60mm dia circle around individual trees, ensuring that the root flare and base of the stem, along with any ground cover plants, are not buried.

2.1.5 The site is to be visited monthly throughout the year to undertake the following operations:

- Weed clearance: All tree pits are to be kept weed free by hand weeding. 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 chafing is occurring. Any broken stakes are to be replaced. All guards shall be checked at least once annually, where no longer necessary or physically damaging the tree these should be removed. All guards that are checked at least once annually, where no longer necessary or physically damaging the tree these should be removed.
- Fertilisation: Any damaged shrubs/trees/ranches are to be pruned back to healthy wood. Trees are to be pruned in accordance with good horticultural practice (BS 3998) to maintain healthy well-shaped specimens which are appropriate to their circumstances.

3. BULB PLANTING

3.1 Bulbs are to be planted at a depth suitable for each species with the base in contact with the bottom of the hole. The removed soil backfilled and firmed on top and, where relevant, the removed plug of turf neatly replaced after planting.

4. AMENITY GRASS

4.1 Areas to be turfed or seeded shall be sprayed out with a glyphosate herbicide and cultivated to a depth of 100mm removing all weeds, debris and stones over 25mm diameter. The surface shall be raked to smooth flowing contours with a fine 10th. Amenity grass areas will receive pre-seeding fertiliser at 70 g/m². Mature grass areas will not be fertilised.

4.2 The minimum overall recommended rooting depth for grass is 450mm, the first 150mm shall be made up of a multi-purpose topsoil. It shall be ensured that a suitable substrate provides the remainder of the minimum rooting depth. Before receiving topsoil, subsoil should be loosened using rigging equipment, this shall be done when the subsoil is dry to encourage soil shattering. All stones and other objects larger than 50 mm shall be removed from the prepared surface.

4.3 Turf shall be supplied in accordance with BS2451. It shall be close textured and green in colour and be sufficiently fibrous to withstand handling. Turves shall be regular in shape, 300mm wide and of uniform thickness (minimum 25mm). The grass shall be clearly rooted and shall not exceed 25mm in height. Turf shall be stacked in piles of 1 or 1.1 metres. It shall be laid in trays or unstacked sections and shall not be stacked in piles for more than three days. Turfing operations shall be in accordance with BS 6423. Where turves shall be laid around the perimeter of the area to be turfed. The prepared area shall be laid in rows with staggered joints, well butted together, working from plants positioned on stipes already laid. The turf shall be watered on completion. Any screenings shall be made good by filling the turf and adjusting the levels. Should shortage occur, the topsoil shall be brushed into the joints.

4.4 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 opposite directions at 25 g/m² for amenity grass. After sowing the contractor shall lightly rake the seed into the soil.

4.5 When newly seeded amenity grass areas reach 50mm they should be lightly rolled and cut to a height of 25mm. All arisings shall be removed. Any bare patches shall be made good at this time. Amenity grass shall be regularly maintained between 25 and 50mm during the first season after sowing.

5. SHRUB/HERBACEOUS PLANTING

5.1 Shrubs/herbaceous plants are to be set out as shown on the drawing and planted into the prepared soil at the specified densities with minimal disturbance to the rootball and well firmed in.

5.2 Recommended rooting depths are 400mm for shrubs/herbaceous plants. Multi-purpose topsoil depths shall be 200mm for shrubs/herbaceous, ensuring that a suitable substrate provides the remainder of the minimum rooting depth. Before receiving topsoil, subsoil should be loosened using rigging equipment, this shall be done when the subsoil is dry to encourage soil shattering. All stones and other objects larger than 50 mm shall be removed from the prepared surface.

5.3 Within the day of planting shrubs/herbaceous plants shall be saturated to field capacity, this shall be done before applying the below bark mulch.

5.4 Spread ornamental pine bark mulch to a depth of 75mm across all new planted areas, taking care not to bury groundcover plants.

6. WILDFLOWER MEADOW GRASSLAND

6.1 Areas of wildflower meadow to be seeded shall be sprayed out with a glyphosate herbicide and cultivated to a depth of 100mm removing all weeds debris and stones over 75mm diameter. The surface shall be raked to smooth flowing contours with a fine 10th.

6.2 Seeds shall be sown either in April/May or September/October during calm weather and not when the ground is frost bound or waterlogged.

6.3 To achieve an even sowing, bulk with an inert carrier, such as sand. Seed shall be sown in two equal sowings in opposite directions at e.g. 4g/m² for Emoragale. EM1 Basic General Purpose Meadow Mixture. After sowing the contractor shall not use the seed to guarantee intimate contact with the soil, ensuring not to rake or cover the seed with soil.

6.4 During first 12 months sward to be regularly cut to minimise competition and weed seed production. Cutting should be frequent enough to disrupt the cycle, or if less frequent remove the cuttings. Cutting to be suspended between April and July to allow flowering of the targeted species.

6.5 When newly seeded wildflower areas reach 50mm they should be cut to a height of 25mm. All arisings shall be removed. Any bare patches shall be made good at this time. Both amenity and meadow grass shall be regularly maintained between 25 and 50mm during the first season after sowing.

7. WILDFLOWER MEADOW GRASSLAND

EM1 - example basic general wildflower mix (the exact mix is to be specified by the ecologist to suit the site conditions) is a simple low cost meadow mixture suitable for a wide range of soil types. The wildflowers are robust and showy, and the grasses are fine line and slow growing. Mixture to be sown at a rate of 4g/m².

%	Latin Name	Common Name
03	Achillea millefolium	Yarrow
43	Centaurea nigra	Common Knawweed
17	Erigeron annuus	Wild Cucumber
3	Galium verum	Lady's Bedstraw
1	Leucanthemum vulgare	Oxeye Daisy
3	Prunella vulgaris	Spotted Flycatcher
5	Rumex acetosa	Meadow Buttercup
05	Rumex crispus	Common Sorrel
11.5	Scirpus acutus	Red Cocksfoot
20		
05		
48	Agrimonia eupatoria	Common Bent
48	Eryngium yuccifolium	Ornited Dogtail
78	Festuca rubra	Slender crested Red Fescue
4	Phleum bertolonii	Smaller Cat-tail
80		

8. BULB PLANTING

To be planted in 100mm.

Species	Common Name	Topsoil	Quantity
Narcissus pseudonarcissus	Daffodils	397	720

9. ORNAMENTAL SHRUB PLANTING

Species	Common Name	Height/Spread cm	Habit	Root Condition	Planting Density/m ²	Quantity
Ceanothus 'Skyline'	California Lilac	30-40	Bushy	3L C	4	19
Ceanothus 'Hydrangea'	California Lilac	30-40	Bushy	3L C	4	19
Cornus sanguinea 'Midwinter Fire'	Dogwood	30-40	Bushy	3L C	4	19
Cornus stolonifera 'Kelsey'	Dogwood	30-40	Bushy	3L C	4	19
Hebe rakianensis	Hebe	30-40	Bushy	3L C	4	19
Hebe 'Yongii'	Hebe	30-40	Bushy	3L C	4	19
Lambertia angustifolia 'Hidcote'	Lambertia	30-40	Bushy	3L C	4	19
Pachysandra terminalis	Japanese Spurge	30-40	Bushy	3L C	4	19
Pinus mugo 'Mops'	Mountain Pine	20-30	Bushy	3L C	4	19
Philadelphus 'Mantau de Hermine'	Mock Orange	40-50	Branching	3L C	4	19
Philadelphus 'Mantau de Hermine'	Mock Orange	30-40	Bushy	3L C	4	19
Rosa 'Mantau de Hermine'	Rose	30-40	Bushy	3L C	4	19
Spiraea japonica 'Goldflame'	Japanese Spurge	30-40	Bushy	3L C	4	19

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Inset 1 - Detailed planting, scale 1:200



Revisions:
First Issue: 08/02/2018 ASK
A: 09/02/2018 ASK Revised to client comment
B: 11/03/2018 ASK Revised to client comment

Detailed Landscape Proposals - Carswell Circle B (Sheet 4 of 4)

Heyford Park - Existing Open Spaces

Client: Dorchester Group
DRWG No: D.0341_138
Drawn by: RVF/ASK
Date: 13.03.2018
Scale: 1:2000A1

Sheet No: 4 REV: B
Approved by: TH/RVF
Pegasus Design