

Rhodes Business Park, Middleton
Landscape Management and Implementation Plan

by
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1 Introduction

- 1.1 This management plan covers the new soft landscape to the proposed unit at Rhodes Business Park, Middleton. The primary objectives of the plan will be achieved through maintenance prescriptions set out at the end of the report and shall be undertaken for the duration of the development.
- 1.2 This report shall be read in conjunction with Planting Proposals identified on drawing DLA-2203-L-01.

2 Long Term Design Objectives

- 2.1 The long-term objective is to create a strong landscape framework for the area and a landscape setting for the proposed development at Rhodes Business Park, Middleton.. This will be achieved through a number of overriding objectives to:
- Successful establishment of grass sward, tree, hedge and shrub planting;
 - Ensure that the landscape has year-round interest;

3 Management responsibilities

- 3.1 The site shall be managed by the landowner's management company, who will be responsible for the management and maintenance of the external areas in accordance with this Management and Maintenance Plan.
- 3.2 These obligations will be bound on the land and be passed onto any future successors in title and/or tenants.
- 3.3 The management plan will deliver consistency of approach and maintenance standards and the plan should be reviewed at every 5 years to ensure that the overriding objectives are being achieved.
- 3.4 The landscape features with the LMP are described as:

Soft Landscape

- Proposed Native buffer planting
- Proposed tree planting
- Proposed shrub planting
- Proposed hedgerows
- Proposed grass and flora swards

- 3.5 The management plan is a live document and sets out to review, monitor and adjust where necessary the short-term landscape objective. A full management review should be undertaken with the input of all landowners prior to the expiry of the initial management plan.
- 3.6 Maintenance of the landscape areas shall be undertaken by a competent Landscape Contractor, registered with the British Association of Landscape Industries (BALI). For the purposes of this report the appointed landscape contractor is referred to as 'The Contractor'.
- 3.7 Maintenance visits shall be undertaken at fortnightly intervals to undertake the most intensive maintenance tasks such as grass cutting, removing litter and inspecting components for defects. Visits may need to be increased at certain times of the year to enable the operations set-out within the report to be properly executed.
- 3.8 A record or log of all maintenance visits should be undertaken by the Contractor and kept as proof that operations are being undertaken and to help inform any changes that may need to be made to respond to site circumstances.
- 3.9 The Contractor shall ensure that any chemical application is undertaken by trained personal / operatives only, who have the appropriate NPTC certificates and in accordance with the manufacturer's recommendations. The 'Code of Practice for the Safe Use of Pesticides for Non-Agricultural Purposes' will be observed where applicable. The use of any chemicals shall be noted on the record sheets as outlined above.
- 3.10 The Contractor shall programme and vary their agreed time of visits to coincide with appropriate weather conditions for carrying out of operations, with particular regard for the use of chemicals and the mowing of grass. The mowing of grass during excessively wet weather or following periods of extended rain is strictly prohibited.
- 3.11 The Contractor should notify the management company to any significant pest or disease problem affecting the planted stock and shall provide a suitable strategy for treatment to be agreed with the client.
- 3.12 Following expiry of the defects period and the autumn of the 4 subsequent years, the Contractor shall advise the management company of all trees and other plants found to be dead, dying, vandalised or suffering significantly from the current growing conditions. All failed / defective plants identified within should be replaced by the contractor at the soonest available planting season to ensure a continued coverage of growth. Replacement plants should be of the same species and specification of the failed specimens.
- 3.13 Chipping and shredding is not permitted on site without prior consent.
- 3.14 Proposals for control of vermin should be submitted for approval if they become a problem.
- 3.15 Ensure that a suitable water supply is available to carry out the operations detailed in this document. In the event of water restrictions (e.g. drought), the contractor will be responsible for submitting proposals to the management company for an alternative source of water e.g. use of a trailer mounted bowser.

4 MANAGEMENT OF PROPOSED SOFT LANDSCAPE FEATURES

Proposed Trees

Primary Objectives

- 4.1 To ensure new tree planting is managed to enable its successful establishment, and to promote healthy growth and attractive form.
- 4.2 Routine operations will involve: watering at times of drought, ensuring sufficient water is applied to ensure trees remain healthy; applications of slow release fertiliser; inspecting stakes and ties to trees and removing these as soon as trees are self-supporting to benefit tree establishment; re-firming trees in ground after strong winds, frost heave or other disturbances; monitoring and replacing failed planting with new plants between October and March; inspecting trees for pests and diseases; pruning to maintain shape and form and maintaining a mulch layer around the base of the tree to prevent weed competition.
- 4.3 Ensure replacement planting is undertaken to the original specification into well-prepared ground.

Proposed Hedges

Primary Objectives

- 4.4 To ensure newly planted hedges are suitably cared for to enable successful establishment into a dense thicket that can be suitably maintained either for wildlife value.
- 4.5 Routine operations will involve: watering at times of drought, ensuring sufficient water is applied to ensure hedges remain healthy; removing shelters after establishment; pruning/clipping and re-shaping hedge species; removing weeds; hoeing or forking over beds; fertilising; topping up mulch; monitoring for pests and diseases; and replacing dead or dying specimens.
- 4.6 The proposed native hedgerows will be managed at a minimum height of 2.5m and single species hedgerow Silburn Way at 1.6m high.
- 4.7 Ensure replacement planting is undertaken to the original specification into well-prepared ground

Proposed Buffer Planting

Primary Objectives

- 4.8 To ensure that the native buffer planting maintains an effective screen and reinforces the boundary are suitably cared for to enable successful establishment into a dense thicket and can be suitably maintained for wildlife value.

- 4.9 Routine operations will involve: watering at times of drought, ensuring sufficient water is applied to ensure buffer planting remain healthy; removing shelters after establishment; pruning/clipping and re-shaping species to encourage bushiness; removing weeds; hoeing or forking over beds; fertilising; herbicide applications; monitoring for pests and diseases; and replacing dead or dying stock.
- 4.10 Advanced nursery stock trees within the buffer area will be allowed to grow to maturity and managed accordingly as 'New Tree Planting'.
- 4.11 Once established the buffer planting will require less intensive management and maintained at a minimum of 2.5m height, by trimming lateral growth once annually in late winter to avoid disturbance to nesting birds.
- 4.12 Ensure replacement planting is undertaken to the original specification into well-prepared ground.

Proposed Shrub Planting

Primary objectives

- 4.13 To ensure shrub planting within the site are suitably cared for to enable successful establishment; to maintain growth and a high aesthetic appearance; and prevent planting beds becoming overgrown and untidy.
- 4.14 Routine operations will involve: watering at times of drought, ensuring sufficient water is applied to ensure shrubs remain healthy; pruning/clipping and re-shaping species to encourage bushiness; removing weeds; hoeing or forking over beds; fertilising; topping up mulch; monitoring for pests and diseases; and replacing dead or dying specimens as soon as possible when growing conditions permit.
- 4.15 When shrubs start to overlap or dominate less vigorous species, it may be necessary to remove some individual plants to retain the character of the bed. Thinning should take place as required in a logical process over several stages.
- 4.16 Monitor and replace failed planting with new equivalent plants between October and March or later if containerised stock is used and weather conditions permit. Dead head flowering shrubs following the flowering period to promote further flowering. NB:- Remove arisings from site.

Proposed Amenity Grass

Primary Objectives

- 4.17 Ensure amenity short-mown grass areas adjacent to Silburn Way is suitably managed in order to maintain an attractive sward.
- 4.18 Routine operations will involve: allowing amenity seeded areas to establish to a minimum height of 35mm before first cut; regular mowing to maintain a height of 30-55mm through

the growing seasons; removing all litter including fallen leaves from grass areas prior to mowing; fertilising if sward is weak; Edging adjacent to footpaths and beds scarifying and spiking if sward is dominated by moss or showing signs of not draining properly;

- 4.19 Bare areas and areas of dead grass which become apparent, should be made good by over-seeding or turfing at the earliest available opportunity
- 4.20 Grass cutting will be avoided in areas planted with bulbs during late winter/early spring when bulbs are growing/flowering and for a period.

Proposed wild flora lawns and woodland ground Flora

Primary Objectives

- 4.21 Ensure meadow grass areas under the pylons and embankments to storm water detention ponds are suitably managed in order to maintain diverse range of species within the sward and a benefit local fauna.
- 4.22 Routine operations will involve: allowing meadow seeded areas to establish to a minimum height of 50mm before first cut; and repeat every 2 months throughout the first year, then mowing twice per annum April and August in the following seasons; removing all litter;; Edging adjacent to footpaths and beds.
- 4.23 Bare areas and areas of dead grass which become apparent, should be made good by over-seeding at the earliest available opportunity.

5 Maintenance Operations

Maintenance Schedule Years 1 to 5		
Landscape elements / habitat types	Action required	Timings
Advanced nursery stock trees	Newly planted tree stock should be inspected for disease by a competent person and inform the Landowner or management company of any major deterioration in the condition of any landscape element. Tree Surgery / Crown reduction as instructed by a qualified arborist. The works should only be carried out by qualified contractors with proof of adequate insurance cover. Pruning of epicormic or basal growth can normally be undertaken by unqualified personnel. Weed control by ensuring no weed growth within a 500mm diameter of each tree. A suitable herbicide should be used in compliance with manufacturer's instructions. Fertilize using suitable slow release fertilizer as per manufacturer's instructions. Inspect tree ties, stakes and frames as scheduled and after strong winds. Replace loose, broken ties or decayed stakes / cross bars to original specification. Remove ties stakes and cross bars. Remove dead trees and replace as per original specification. Water all trees during dry periods to ensure establishment, in the occurrence of a drought order watering shall be undertaken by bowser and non-potable water.	Annually – in late autumn Annually inspect and monitor condition of trees. - Sept Annually - Sept Annually - Apr & Aug Till year 4– Apr & Aug Every 3 months 4 years after planting. Annually till year 5 During dry periods till end of year 2 from implementation.
Shrub planting	Prune shrubs in accordance with best practise and appropriate to species, removing arisings. Remove weed growth and remove off site Remove litter and fallen leaves regularly to maintain a neat appearance. Top up bark mulch Water shrubs during dry periods to ensure establishment, in the occurrence of a drought order watering shall be undertaken by bowser and non-potable water.	Annually between March and April Fortnightly. Fortnightly. Annually in March till year 4 During dry periods till end of year 1 from implementation.
Buffer Planting Including trees Shrub Mix	Newly planted should be regularly inspected for disease by a competent person and inform the Landowner or management company of any major deterioration in the condition of any landscape element. Gapping up if vegetation edge becomes broken, with stock identified on planting plans.	Annually – in late autumn Annually Oct to Feb

Maintenance Schedule Years 1 to 5		
Landscape elements / habitat types	Action required	Timings
	Cutting back. Weed control - ensure minimal weed growth within a 500mm diameter of each transplant / feathered tree by strimming or an application of a suitable non-residual herbicide in compliance with manufacturer's instructions. Fertilise using suitable slow release fertiliser as per manufacturer's instructions. Grow tubes, adjust or replace to original specification. Inspect tree ties and tree stakes as scheduled and after strong winds. Replace loose, broken or decayed stakes to original specification. Adjust Strimmer guards, replace or refit to original specification. Replace stock losses to original specification. Remove grow tubes. Remove tree stakes and ties from tree stock. Thinning of newly planted Buffer areas in compliance with Standard: BS 7370-4 Clause 3.5.17.1 Select weaker plants for removal. Stack arising within planting area to create hibernaculums. Ensure no or minimum damage to adjacent plants during thinning and refill hole immediately with topsoil. Make good any damage of adjacent plants. Coppice 25% of the hazel stock - operating a 5-year rotational coppicing pattern. Water buffer planting during dry periods to ensure establishment, in the occurrence of a drought order watering shall be undertaken by bowser and non-potable water.	Annually Oct / Nov Annually - Apr & Aug Till year 4– Apr & Aug Annually up to year 3 between March and April Annually up to end of year 4 – Oct to Feb 4 years after planting. 4 years after planting At year 5 From year 5 During dry periods till end of year 1 from implementation and end of year 2 for tree stock.
Hedge planting	Weed control by ensuring no weed growth within the hedgerow with a suitable herbicide and used in compliance with manufacturer's instructions. Fertilise using suitable slow release fertiliser as per manufacturer's instructions. Prune hedge planting to reduce the height to 2m with vertical sides Water buffer planting during dry periods to ensure establishment, in the occurrence of a drought order watering shall be undertaken by bowser and non-potable water.	Annually - March & Aug Till year 4 Till year 4– Apr & Aug Oct / Nov after year 3 and thereafter in alternate years. During dry periods till end of year 1 from implementation.
Amenity road verge grass sward	Maintain grass area in a manner appropriate to the intended use, removing arisings from site. Grass height: Maintain within a range 30-55mm and shall be a vigorous sward, free from disease, fungal growth, discolouration, moss, excessive thatch, weeds, frost heave, worm casts and mole hills, scorch or wilt. Reduce moss growth by raking	Every 2 weeks during the growing season Spring and autumn as required

Maintenance Schedule Years 1 to 5		
Landscape elements / habitat types	Action required	Timings
	Edging off paths, hard surfaces and landscape beds Remove litter and fallen leaves regularly to maintain a neat appearance. Fertilise using suitable slow release fertiliser as per manufacturer's instructions.	Monthly during growing season Every 2 weeks during the growing season April and August
Flowering and woodland sward.	Maintain grass area in a manner appropriate to the design intent. Remove Litter regularly to maintain a neat appearance. Cut 4/5 of the sward in sections leaving a fortnight between cuts to a height of 70-100mm leaving clippings to dry and shed seed for 7 days then remove from site. Leaving 1/5 of the sward uncut (this uncut area is to be rotated every year) Lightly mow sward the 4/5 of the cut sward as necessary to achieve a height of 70-100mm over the winter months. Cut the uncut section to 70-100mm - collect clippings	Monthly Annually mid-August to early October. Winter months till March March
Defects	Remove and replace plant losses to original specification.	Annual – Oct till year 5
Leaf Litter	Inspect hard and soft landscape areas and public realm for leaf litter. With appropriate mechanical sweepers and leaf blowers remove leaf litter from hard surfaces, landscape beds and grass areas, to ensure sweeping does not result in damage surfaces or sand jointing to paving areas.	Monthly Oct / Nov and December
Notifiable weed growth and other injurious weeds or invasive plants / Notifiable weed growth	All areas affected shall be fenced off to minimise the possibility of unintentionally spreading the injurious weeds or invasive plants. Appoint specialist firm to undertake herbicide treatment to eradicate invasive plant.	May and August Inspect, manage accordingly.
Reviewing the maintenance and management plan	Qualified personnel shall monitor / report and adjust the short-term maintenance plan and timings twice a year. The long-term management plan including its objectives and deliverability should be reviewed every 5 years and should be adjusted as appropriate.	Twice per annum Every 5 years

6 Plant Replacement

Replacement Plant Sources

- 6.1 Replacement plants shall be obtained from a nursery that are members of the Horticultural Trades Association Nursery Certification Scheme and approved by the project and local authority landscape architect.
- 6.2 All replacement stock shall be of local provenance or if unavailable national provenance. Origin and provenance have the meaning given in the National Plant Specification and grown in the UK.

Implementation of Replacement Plants

- 6.3 Plant handling and planting operations shall be undertaken in accordance with Horticultural Trades Association "Handling and Establishing Landscape Plants" (Parts I-III).

Timetable for Implementation of Replacement Plants

- 6.4 The replacement of failed plants shall be undertaken by the end of the next available planting season and during the following periods:
- Deciduous trees and shrubs: Late October to late March.
 - Conifers and evergreens: September/ October or April/ May.
 - Container grown plants: At any time if ground and weather conditions are favourable.

Appendix 1 – Landscape Specification

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Topsoiling

200A Grading placed subsoil

1. General: Grade to smooth flowing contours to achieve finished levels for topsoil coverage-
2. subsoil depth for
3. grass 300mm
4. buffer woodland planting to rear and sides of development 700mm
5. Shrub planting 550mm

250B Subsoil surface preparation

1. General: Excavate and/ or place fill to required profiles and levels.
2. Loosening:
3. When ground conditions are reasonably dry, loosen thoroughly to a depth of 350 mm.
4. Stones: Immediately before spreading topsoil, remove stones larger than: 50mm.
5. Other items: Remove: arisings, contaminants and debris.

300 Topsoil analysis

1. Soil to be analysed: Existing site topsoil and Imported topsoil
2. Soil analyst: Tim O'Hare Associates, Howbery Park, Wallingford, Oxfordshire, OX10 8BA, Or equal approved consultant
3. Samples: Collect in accordance with BS 3882, Annex A.
4. Submit originals of:
 - 4.1. Declaration of analysis of: soil in accordance with BS 3882 figure 3
 - 4.2. Report detailing soil analyst's recommendations.

340A Imported topsoil (to BS 3882)

1. Quantity: Provide as necessary Multipurpose Topsoil to make up any deficiency of topsoil existing on site and to complete the work.
2. All sampling shall be undertaken in accordance with standard industry procedures for contaminated land and topsoil, using appropriate sampling techniques and storage. Organic Compost shall be sampled and analysed in accordance with the requirements of PAS 100: 2011.
3. The sample(s) should be truly representative of the materials intended for import.

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Topsoiling

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4. All General Purpose Topsoil shall comply in all respects to the requirements listed below in Table
5. Visual Examination: the soil shall have a visible homogeneity and shall be free from non-soil material, brick and other building materials and wastes, hydrocarbons, plant matter, roots of perennial weeds and any other foreign matter or material or substance that would render the topsoil unsuitable for use.

Maximum Limits for Phytotoxic Contaminants within Multi Purpose Topsoil.

Parameter	Unit Lower Limit	Upper Limit
Boron mg/kg	0	3
Zinc mg/kg	0	300
Copper mg/kg	0	200
Nickel mg/kg	0	110

The horticulture soil composition criteria for Multi Purpose Topsoil

Parameter	Unit Lower Limit	Upper Limit
Clay (<0.002mm) %	5	20
Silt (0.002-0.05mm) %	5	35
Sand (0.05-2.0mm) %	55	85

Of which at least 45% shall fall into fine sand (0.15-0.25mm) to medium sand (0.25-0.50mm) range

Stones (2-20mm) %DW	15	
Stones (20-50mm) %DW	15	
Stones (>50mm) %DW	0	
pH Value Unit	5.5	8.5
Electrical Conductivity (1:2.5 water extract) µS/cm	--	1500

Electrical Conductivity (CaSO ₄ extract) µS/cm	--	2800
Exchangeable Sodium Percentage%	--	15
Organic Matter %	4.0	8.0
Total Nitrogen %	0.20	--
Carbon: Nitrogen Ratio --	--	20:1
Extractable Phosphorus mg/l	26	100

Extractable Potassium mg/l	240	1200
Extractable Magnesium mg/l	50	600
Calcium Carbonate %	--	5
Percolation Rate mm/hr	N/A	N/A

Potential Contaminants – in accordance with SSACs

390A Topsoil storage heaps

1. The maximum height of temporary stockpiles shall not exceed 2.0 m x 3m wide unless otherwise approved by the Employer or Employer' Representative.
2. Stockpiles shall be shaped to shed water, and shall be fenced and covered as appropriate to prevent compaction and contamination.
3. Locations of stockpiles to be agreed with Employer' Representative prior to commencing earthworks operations.
4. Other materials shall not be placed on top of or adjacent to each stockpile, and other, different soil types shall not be placed on top of or adjacent to each stockpile.
5. Once formed, the Contractor shall not permit construction plant to pass over the stockpile.
6. The Contractor shall take appropriate measures to prevent compaction and contamination.
7. Topsoil shall not be stored in a stockpile for a period greater than 15 months unless authorised by the Employer. After this time, the topsoil shall be excavated, reconditioned and formed into a new stockpile if necessary.

410A General soil requirements and handling

1. The Contractor shall comply with the requirements for laying soils for particular uses as given in:
2. Chapter 6, Code of Practice for Sustainable use of soils on Construction Sites, Defra, September 200; and
3. Specification Series 600.
4. Topsoiling shall be carried out using specified topsoil and subsoil only refer to Tabel B above), or as otherwise approved by the Employer' Representative.
5. Different soil types shall not be mixed or stored with one another.
6. Soils to be used to construct landscape areas shall not be mixed with landfilled materials, stone, hardcore, rubbish, or material from demolition work.
7. Plant shall be selected and used to minimise disturbance, trafficking and compaction
8. Aggressive weeds: Give notice and obtain instructions before moving topsoil.
9. Multiple handling: Keep to a minimum. Use topsoil immediately after stripping or delivery.

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Topsoiling

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10. The Contractor shall provide a structured, uncompacted soil profile for the successful establishment and subsequent growth of trees, shrubs and grass.
11. For the duration of the soiling works safe soil handling measures shall be implemented.
12. The Contractor shall ensure there is no further physical degradation during all phases of the soil handling (e.g. during storage, re-spreading, and planting).
13. To preserve soil structure and limit compaction, all soils shall only be moved and handled when reasonably dry and friable in consistency (i.e. at least 5 % below the soil's lower plastic limit), as defined by BS3882, Annex N2
14. The Contractor shall cease all soil handling during and immediately after rainfall and not recommenced until the soil has dried out sufficiently in the opinion of the Employer.
15. Soil shall not be placed or spread when the soil is frozen or covered with snow.
16. Soft landscape areas shall be prepared as necessary to ensure that the existing land raise material is in a suitable state for soiling operations specified.

420A Spreading topsoil

1. Temporary roads/surfacing: Remove before spreading topsoil.
2. Placement of all soil or soil materials shall be undertaken by end-tipping methods in order to avoid trafficking and potential compaction of the soil. All soil-carrying vehicles shall run on the base layer or haul route or equivalent, whether loaded or empty. The soils will be spread and levelled using a tracked hydraulic excavator with a grading bucket or with a light-weight dozer equipped with low ground pressure tracks (maximum pressure 5 psi).
3. The Contractor shall carry out soiling operations to achieve finished levels and shall be responsible for remedying any settlement, erosion, slippage or wash-out prior to completion of soiling the site area.
4. Provided the topsoil is not anaerobic, the topsoil shall be spread in depths of 150 mm max to achieve the specified topsoil depths and lightly firmed using the bucket before spreading the next. If the topsoil is anaerobic, it shall be left to re-aerate to its full depth before firming. Only once the topsoil has lost its grey colouration and sour odour may it be firmed into place.
5. The minimum depths after firming and settlement for general purpose topsoil shall be in accordance with the following: 450mm hedging trenches, 350 mm shrubs, trees, woodland and buffer planting and 150mm for grass areas.
6. Crumb structure: Do not compact topsoil. Preserve a friable texture of separate visible crumbs wherever possible.
7. Areas shall be uniformly graded to a smooth surface, free from irregular surface changes so as to achieve smooth and flowing contours, with falls for adequate drainage.

8. Topsoil thickness shall be appropriate to sustain the required vegetation cover to meet the requirements of the landscape design.
9. Following topsoil spreading, the soil shall have a clearly defined soil structure comprising granules and/or small to medium blocks and be uncompacted and well aerated to the full topsoil depth.

450 Finished levels of topsoil after settlement

1. Above adjoining paving or kerbs: 20mm.
2. Below dpc of adjoining buildings: Not less than: 150mm.
3. Shrub areas: Higher than adjoining grass areas by: 20mm.
4. Within root spread of existing trees: Unchanged.
5. Adjoining soil areas: Marry in.
6. Thickness of turf or mulch: Included.

Ω End of Section

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Seeding/turfing

115 Seeded and turfed areas

1. Growth and development: Healthy, vigorous grass sward, free from the visible effects of pests, weeds and disease.
2. Appearance: A closely knit, continuous ground cover of even density, height and colour.

120 Climatic conditions

1. General: Carry out the work while soil and weather conditions are suitable.

145 Watering

1. Quantity: Wet full depth of topsoil.
2. Application: Even and without displacing seed, seedlings or soil.
3. Frequency: As necessary to ensure the establishment and continued thriving of all seeding/turfing.

150 Water restrictions

1. Timing: If water supply is or is likely to be restricted by emergency legislation do not carry out seeding/turfing until instructed. If seeding/turfing has been carried out, obtain instructions on watering.

Preparation

212 Seed bed cleaning before sowing

1. Description: All grassed areas
2. Operations: Kill pernicious weeds with selective contact herbicide and remove weeds by hand weeding and hoeing if necessary near watercourses

280A Final cultivation for grass areas

1. The final topsoil profile shall be free of large compacted lumps stones etc. and shall be broken down by appropriate cultivation to produce a fine tilth suitable for seeding/turfing (<10 mm).
2. Timing: After grading.
3. Seed bed: Reduce to fine, firm tilth with good crumb structure.
 - 3.1. Depth: 25 mm.

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Seeding/turfing

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- 3.2. Surface preparation: Rake to a true, even surface, friable and lightly firmed but not over compacted.
- 3.3. Remove surface stones/earth clods exceeding: 10 mm
- 3.4. Adjacent levels: Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.

Seeding

310A Woodland Mix

1. Description: Woodland Understorey areas
2. Mixture: Emorsgate EW1
3. Application rate: 4g per sq.m sowing depth 10mm

310B Grass Seed Mix

1. Description: Road verges areas
2. Mixture: Emorsgate EG22
3. Application rate: 25g per sq.m sowing depth 10mm

310B Wild Flora Lawn

1. Description: Wild flora areas
2. Mixture: Emorsgate EL1
3. Application rate: 4g per sq.m sowing depth 10mm

319 Quality of seed

1. Description: All grass areas
2. Freshness: Produced for the current growing season.
3. Certification: Blue label certified varieties.
 - 3.1. Standard: EC purity and germination regulations.
 - 3.2. Official Seed Testing Station certificate of germination, purity and composition: Submit when requested.
4. Samples of mixtures: Submit when requested.

330 Sowing

1. General: Establish good seed contact with the root zone @ 10mm depth.

2. Method: Manually broadcast and rolled
 - 2.1. Distribution: 2 equal sowings at right angles to each other

335 Grass sowing season

1. Grass seed generally: April to June or August to October

340 Pre-emergent herbicide

1. Description: For all grass / wild flora areas.
2. Standard: Pesticide Safety Directorate approved.
3. Application rate: In accordance with manufacturer's written recommendation.
 - 3.1. Timing: Immediately after sowing.

Protecting/cutting

530A First cut of grassed areas

1. Timing: When grass is reasonably dry.
 - 1.1. Height of initial growth: 60 mm
2. Preparation:
 - 2.1. Debris and litter: Remove.
 - 2.2. Stones and earth clods larger than 25 mm in any dimension: Remove
3. Height of first cut: 40 mm
4. Mower type: Contractor's choice
5. Arisings: Remove from site

530B First cut of wild flora areas

1. Timing:
2. Spring Sowing / laying turf - First Cut mid-August to early October.
3. Autumn Sowing / laying turf - First cut early July.
4. If weather conditions allow and when grass is reasonably dry.
5. Preparation:
 - 5.1. Debris and litter: Fortnightly Remove.
 - 5.2. Stones and earth clods larger than 25 mm in any dimension: Remove
6. Cut 4/5 of the grass sward in sections leaving a week between cuts to a height of 70-100mm.
Leaving 1/5 of the sward uncut

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Seeding/turfing

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Lightly mow sward the 4/5 of the cut sward as necessary to achieve a height of 70-100mm over the winter months.

Cut the uncut section to 70-100mm - collect clippings

Carefully dig out or spot treat any residual perennial weeds such as docks.

7. Mower type: Contractor's choice
8. Arisings: leaving clippings to dry and shed seed for 7 days then remove from site.

590 Cleanliness

1. Soil and arisings: Remove from hard surfaces.
2. General: Leave the works in a clean, tidy condition at Completion and after any maintenance operations.

Maintenance

599A Maintenance

1. For 12 months from practical completion
2. Maintenance of grass swards shall be undertaken to achieve a vigorous sward, free from disease, fungal growth, discolouration, moss, excessive thatch, weeds, frost heave, worm casts and mole hills, scorch or wilt. .

High profile amenity grass areas

3. Maintain to an height between 20-40mm during the first year;
4. Edging off paths, hard surfaces and landscape beds prior to mowing;
5. Frequent trimming (or herbicide treatment) to areas abutting fences and built elements;
6. Application of herbicide to suppress perennial weeds on a monthly basis during the growing season and if necessary hand weed;
7. Water areas to ensure moisture levels are maintained appropriate to develop a healthy grass sward;
8. Reinstate and repair failed, damaged, disturbed or worn areas;
9. Remove all litter and deleterious material from sward on fortnightly basis.
10. Reduce moss growth by raking in spring and Autumn
11. Fertilise using suitable slow release fertiliser as per manufacturer's instructions. in April and August

Wild flora grass sward :

12. From mid-August to early October cut 4/5 of the grass sward in sections leaving a fortnight between to a height of 70-100mm - cut in sections leaving a week to a fortnight between cuts, leaving clippings to dry and shed seed for 7 days then remove from site.
Leaving 1/5 of the sward uncut (this uncut area is to be rotated every year)
Cut the uncut 1/5 of sward to a height of 70-100mm collect arisings
13. Lightly mow the sward down to 70-100mm as required throughout the winter months until March and collect arisings.
14. Edging off paths, hard surfaces and landscape beds prior to mowing;
15. Hand weed to suppress perennial weeds on a monthly basis during the growing season ;
16. Water areas to ensure moisture levels are maintained appropriate to develop a healthy grass sward;
17. Reinstate and repair failed, damaged, disturbed or worn areas;
18. Carefully dig out any residual perennial weeds such as docks.
19. Remove all litter and deleterious material from sward on fortnightly basis.

Woodland sward

20. Cut mid October to a height of 70-100mm.
21. Reinstate and repair failed, damaged, disturbed or worn areas;
22. Carefully dig out or spot treat any perennial weeds such as docks.
23. Remove all litter and deleterious material from sward on fortnightly basis.
24. Leaving clippings to dry and shed seed for 7 days then remove from site.

610 Failures of seeding/ turfing

1. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the 12 month rectification period.
2. Defective materials or workmanship: Areas that have failed to thrive.
 - 2.1. Exclusions: Theft or malicious damage.
3. Method of making good: Recultivation and reseeding/ returfing.
4. Timing of making good: The next suitable sowing season

680 Maintenance fertilizer

1. Description: For all high profile amenity grassed areas only

2. Duration: Carry out the following operations from completion of seeding/ turfing until: the end of the rectification period
3. March application: 15:10:10 Spring turf fertilizer at 35 g/m².
4. September application: 5:10:10 Autumn turf fertilizer at 50 g/m².

Ω End of Section

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External planting

699 Protecting/ maintaining/ making good defects

General information/ requirements

112A Site clearance generally

1. General: Remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil.
2. Stones: Remove those with largest dimension exceeding: 50 mm
3. Contamination: Substances injurious to plant growth including subsoil, rubble, fuel, and lubricants.

118A Soil conditions

1. Soil for cultivating and planting: Moist, friable and not waterlogged.
2. Frozen or snow covered soil: Give notice before planting. Provide additional root protection.
Prevent planting pit sides and bases and backfill materials from freezing.

120 Climatic conditions

1. General: Carry out the work while soil and weather conditions are suitable. Do not plant during periods of frost or strong winds.

125A Times of year for planting

1. At Practical completion all Landscape works to High Profile areas shall be completed.-
2. all remaining boundary planting shall be undertaken during the following periods.
3. Deciduous trees and shrubs: Late October to late March.
4. Conifers and evergreens: September/ October or April/ May.
5. Herbaceous plants (including aquatic and marginal): September/ October or March/ April.
6. Container grown plants: At any time if ground and weather conditions are favourable. Ensure that adequate watering and weed control is provided.
7. Aquatic and marginal plants: May/ June or September/ October.

130 Mechanical tools

1. Restrictions: Do not use within 500 mm of tree and plant stems, areas within 500mm shall be undertaken by hand tools or herbicide spot treatment.

145 Watering

1. Quantity: Wet full depth of topsoil.
2. Application: Even and without damaging or displacing plants or soil.
3. Frequency: As necessary to ensure establishment and continued thriving of planting.

150 Water restrictions

1. General: If water supply is or is likely to be restricted by emergency legislation, do not carry out planting until instructed. If planting has been carried out, obtain instructions on watering.

160 Notice

1. Give notice before
 - 1.1. Setting out.
 - 1.2. Applying herbicide.
 - 1.3. Applying fertilizer.
 - 1.4. Delivery of plants/ trees.
 - 1.5. Planting shrubs.
 - 1.6. Planting trees into previously dug pits.
 - 1.7. Watering.
 - 1.8. Visiting site during maintenance period.
2. Period of notice: 7 days

165 Preparation, planting and mulching materials

1. General: Free from toxins, pathogens or other extraneous substances harmful to plant, animal or human life.
2. Certification: Submit a certificate giving supply source, content analysis, confirmation of suitability for purpose and confirmation of absence of harmful substances.
 - 2.1. Certified materials: Manufactured planting media and Imported composts
 - 2.2. Give notice before ordering or using.

200 Plants/ Trees – general

1. Condition: Materially undamaged, sturdy, healthy and vigorous.
2. Appearance: Of good shape and without elongated shoots.
3. Hardiness: Grown in a suitable environment and hardened off.

4. Health: Free from pests, diseases, discoloration, weeds and physiological disorders.
5. Budded or grafted plants: Bottom worked.
6. Root system and condition: To requirements of: The National Plant Specification and balanced with branch system.
7. Species: True to name.
8. Origin/ Provenance: Grown in the United Kingdom for at least one growing season, unless otherwise approved
9. Origin and Provenance have the meaning given in the National Plant Specification.

215 Plants/ Trees – specification criteria

1. Name, forms, dimensions, provenance and other criteria: As scheduled and defined in the National Plant Specification.

216 Plants/ Trees – specification criteria

1. Name, forms, dimensions and other criteria: To the relevant part of BS 3936.

235 Container grown plants/ Trees

1. Growing medium: With adequate nutrients for plants to thrive until permanently planted.
2. Plants: Centred in containers, firmed and well watered.
3. Root growth: Substantially filling containers, but not root bound, and in a condition conducive to successful transplanting.
4. Hardiness: Grown in the open for at least two months before being supplied.
5. Containers: With holes adequate for drainage when placed on any substrate commonly used under irrigation systems.

245 Labelling and information

1. General: Provide each plant/ tree or group of plants/ trees of a single species or cultivar with supplier's labelling for delivery to site, showing:
 - 1.1. Full botanical name.
 - 1.2. Total number.
 - 1.3. Number of bundles.
 - 1.4. Part bundles.
 - 1.5. Supplier's name.
 - 1.6. Employer's name and project reference.

- 1.7. Plant specification, in accordance with scheduled National Plant Specification categories.
2. Additional information: Submit on request: Country of origin.

246 Labelling and information

1. Standard: To BS 3936.

250 Supply of plants/ trees

1. Suppliers: Members of the Horticultural Trades Association Nursery Certification Scheme.

255 Plants/ Trees reserved at supplier's premises

1. Types/ Species: As schedule
2. Predelivery inspection: Give notice.
3. Labelling: Identify inspected plants/ trees as reserved for use on this project.

260 Plant/ Tree substitution

1. Plants/ trees unobtainable or known to be likely to be unobtainable at time of ordering: Submit alternatives, stating:
 - 1.1. Price.
 - 1.2. Difference from specified plants/ trees.
2. Further alternatives: Proposed substitutions may not be acceptable and submission of further alternatives may be required.
3. Approval: Obtain before making any substitution.

265 Plant handling, storage transport and planting

1. Standard: To HTA 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part I, Part II and Part III, paragraphs 1.3.3 to 1.3.6, 3.0, and 4.0.
2. Frost: Protect plants/ trees from frost.
3. Handling: Handle plants/ trees with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.
4. Plant packaging: Coextruded polyethylene bags with black interior and white exterior
5. Packaging of bulk quantities: Pallets or bins sealed with polyethylene and shrink wrapped

270 Planting generally

1. Standard: To HTA 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part III, paragraphs 6.2 to 6.6.

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External planting

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2. Appearance: Plant upright or well balanced with best side to front.

280 Treatment of tree wounds

1. Cutting: Keep wounds as small as possible.
 - 1.1. Cut cleanly back to sound wood using sharp, clean tools.
 - 1.2. Leave branch collars. Do not cut flush with stem or trunk.
 - 1.3. Set cuts so that water will not collect on cut area.
2. Fungicide/ Sealant: Do not apply unless instructed.

290 Surplus material

1. General: Remove subsoil, stones, debris, wrapping material, canes, ties, temporary labelling, prunings and other arisings/ rubbish.

Preparation of planting beds/ planting materials

300A Herbicide

1. Locations: All woodland / buffer planting, shrub beds and hedgerow expect planting located in swales this shall be undertaken by hand
2. General: Prevent weeds from seeding and perennial weeds from becoming established, by applying a suitable herbicide or if necessary by hand weeding..
 - 2.1. Delay cultivation as recommended by manufacturer.

335A General fertilizer

1. Locations: All shrub beds except those located in swales
2. Product reference: In accordance with soil report
3. Application: Spread evenly.
 - 3.1. Timing: Immediately before cultivation.
 - 3.2. Coverage: in accordance with soil report

357A Soil ameliorant/ conditioner to shrub planting beds

1. Locations: All shrub beds
2. Type: Mushroom compost
3. Coverage: 7 kg/m²

4. Timing: Apply prior to cultivation.

357B Soil ameliorant/ conditioner to buffer planting and woodland stations

1. Locations: 0.5m radius to all whip and tree planting units
2. Type: Mushroom compost
3. Coverage: 2 kg/m²
4. Timing: Apply prior to cultivation.

357C Additional soil ameliorant/ conditioner

1. Locations: All Planting areas
2. Type: in accordance with soil report
3. Coverage: in accordance with soil report
4. Timing: Apply prior to cultivation.

358A Soil ameliorant/ conditioner

1. Organic compost can be used in differing grades as soil improver, soil ameliorant, sterile sowing mulches or surface mulches either in combination or alone, to make up growing media in landscaped areas.
2. Organic compost shall comprise well composted, weed free, graded residues of British origin from approved sources and shall be peat-free.
3. Suppliers shall be registered with the Waste and Resources Action Programme (WRAP) as providing material to the PAS 100 standard.
4. Coverage: Backfill to tree and transplant pits, 2KG per square metre to all shrub planting beds, and hedge trenches
5. Timing: Apply prior to cultivation.

375A Cultivation

1. The final topsoil profile shall be free of large compacted lumps stones etc and shall be broken down by appropriate cultivation to produce a fine tilth suitable for planting (<40 mm),
2. Compacted topsoil: Break up to full depth.
3. Cultivation: Loosen, aerate and break up soil into particles of <40mm.
 - 3.1. Depth: Top: 250 mm of planting areas.
 - 3.2. Timing: Within a few days before planting.
 - 3.3. Weather and ground conditions: Suitably dry.

4. Surface: Leave regular and even.
5. Levels:
 - 5.1. As required in sections D20 and Q28.
 - 5.2. Within: 25 mm of levels specified on drawings.
6. Undesirable material brought to the surface: Remove, including weeds, roots, stones and clods larger than 50 mm in any dimension, tufts of grass and foreign matter.
7. Soil within root spread of trees and shrubs to be retained: Do not dig or cultivate.

Planting shrubs/ herbaceous plants/ bulbs

401 Regular plant layout

1. Spacing: In regular, staggered rows
2. Density: As plant schedule

410A Water retention granules

1. Description: To all tree planting pits
2. Manufacturer: Greentech
 - 2.1. Product reference: Broadleaf P4
3. application and rate to manufactures recommendation.:

417 Mycorrhizal inoculant

1. Manufacturer: PlantWorks Ltd
 - 1.1. Product reference: Rootgrow professional
2. Application: Apply to roots of bare root plants before planting and backfilling, as scheduled.

471 Naturalized hedges

1. Planting: In trenches large enough to take full spread of roots. Set out plants evenly.

476 Backfilling material

1. Composition: Previously prepared mixture of topsoil excavated from pit and additional topsoil as required, together with:
 - 1.1. Ameliorant/ Conditioner: additional ameliorants recommended in soil analysis report.
 - 1.1.1. Coverage: in accordance with soil analysis report.
 - 1.2. Fertilizer: Slow release

1.2.1.Coverage: To suit soil report recommendations

480 After planting

1. Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil.
2. Firming: Lightly firm soil around plants and fork and/ or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows.
3. Top dressing: Not required

485 Mulching shrub planting beds and hedgerows.

1. Material: Amenity grade bark mulch
 - 1.1. Purity: Free of pests, disease, fungus and weeds.
2. Preparation: Clear all weeds. Water soil thoroughly.
3. Coverage: 75 mm depth
4. Finished level of mulch: 20mm below adjacent grassed or paved areas

485A Mulching buffer and woodland planting - Trees only

1. Material: Amenity grade bark mulch
 - 1.1. Purity: Free of pests, disease, fungus and weeds.
2. Preparation: Clear all weeds. Water soil thoroughly.
3. Coverage: 65 mm depth

Planting trees

500 Tree planting

1. Standard: Prepare roots and transplant to BS 4043.
2. Backfilling material: As clause 585.
3. Support: Underground guying for trees over 20cm girth; overground guying to conifer trees; Short double staking to EHS and Standard trees; single stake for feathered trees under 8-10cm girth.
4. Protection: Strimmer guards not required as all trees within grass areas are mulched.

505 Tree pits

1. Sizes: Extra Heavy Standard and standard trees 1200mm diameter x 700mm deep; refer to drawing DLA-2201-L-02 for details

2. Sloping ground: Maintain horizontal bases and vertical sides with no less than minimum depth throughout.
3. Pit bottoms: With slightly raised centre. Break up to a depth of: 200 mm
4. Excavated material: Topsoil and subsoil to be separated and mixed with ameliorants.
5. Pit bottoms: Excavate with slightly raised centre: base to be broken up by forking prior to planting, in areas of poor percolation incorporate 200mm drainage layer free draining aggregate below the specified tree pit depth.
6. Pit sides: Sides of pit to be broken up by forking prior to planting .
7. Backfilling material: As clause 586 mixed with Water storing granules
8. Accessories: Watering / aeration tubes, root barriers , guying and staking as indicated on drawing DLA-2203-L-02

510 Tree pit root barriers

1. Locations: Trees within 3m of underground service or hard surfaces
2. Manufacturer: Greenleaf
 - 2.1. Product reference: RootBarrier RollRib 90
3. Depth of top of root barrier below finished soil level: 25 mm
4. Installation: With sides vertical.

512 Tree pit irrigation and ventilation

1. Locations: All trees
2. Manufacturer: Blue Green Urban
 - 2.1. Product reference: Green Blue Urban RootRain Metro
3. Type: (35mm) capacity irrigation system with plastic cap.
4. Locations: Refer to drawing DLA-2203-L-02

535 Tree stakes

1. Stakes: Softwood, peeled chestnut, larch or oak, straight, free from projections and large or edge knots, with pointed lower end and 1.8m long.
 - 1.1. Preservative treatment: Not required
2. Minimum stake sizes: 75mm diam

575 Short double staking for

1. Description: Extra heavy standard and standard trees

2. Staking: Drive 3no stakes vertically at least 900 mm into the ground, at 120 degrees to each other in plan view of tree position before planting. Consolidate material around stakes during backfilling.
3. Height of stakes: Cut to approximately 800 mm above ground level.
4. Cross bar: 3no 38x100mm treated softwood spars fixed in a triangle to the top of the stakes with minimum of 4 number Stainless steel A2 Annular Ringshank Nails 4.5 x 100mm .
5. One side of the triangle frame to be facing the windward side.
6. Ties: Fix 3 number 50 x 3mm rubber tree belt (1 from each post to the tree) and secure to stake with minimum of 3no A2 Stainless steel 50 x 2.65mm clout headed nails.

586 Backfilling material

1. Composition: Previously prepared mixture of topsoil excavated from pit and additional topsoil as required, together with:
 - 1.1. Ameliorant/ Conditioner: In accordance with Soil analysis report.
 - 1.1.1.Coverage: In accordance with Soil analysis report.
 - 1.2. Fertilizer: Slow release
 - 1.2.1.Coverage: To suit soil report recommendations

590 Mulching trees

1. Material: Amenity grade bark mulch.
 - 1.1. Purity: Free of pests, disease, fungus and weeds.
2. Preparation: Clear all weeds. Water soil thoroughly.
3. Coverage: In a circular area of 900 mm radius measured from the tree stem to a depth of 75mm - with 100-120mm diameter clear area adjacent to tree bole.

596A Protection to all native hedge and buffer planting

1. Manufacturer: Tubes
 - 1.1. Product reference: 750mm x 100mm square Green-Tech Bio-Earth Biodegradable
2. Size/ Colour: Green Tint
3. Support: 50x50mm softwood stake
4. General: Ensure that protection methods do not impede natural movement of shrubs or restrict growth.

Buffer planting

625A Cultivation

1. As clause 375.

680 Setting out

1. Planting density: As plant schedule
2. Layout: Random groups of no less than 3 or more than 7 of the same species, ensuring that no three plants are aligned in any one direction.

Protecting/ maintaining/ making good defects

790 Final mulching

1. Timing: At end of the maintenance period.
2. Watering: Ensure that soil is thoroughly moistened prior to remulching, applying water where necessary.
3. Planting beds: Remulch with amenity bark mulch or crushed slate on swale embankments.
4. Depth (minimum): 75 mm amenity bark mulch 50mm crushed slate.
5. Trees: Remulch.
6. Depth (minimum): 75 mm amenity bark mulch 50mm crushed slate.

Protecting/ maintaining to practical completion

710A Maintenance

1. Duration: Carry out the operations in the following clauses from completion of planting until: the end of the rectification period
2. Frequency of maintenance visits: fortnightly during growing season.

720 Failures of planting

1. General: Plants/ trees/ shrubs that have failed to thrive (unless due to theft or malicious damage after completion) during period stated in clause 710, will be regarded as defects due to materials or workmanship not in accordance with the Contract. Replace with equivalent plants/ trees/ shrubs.
2. Replacements: To match size of adjacent or nearby plants of same species or match original specification, whichever is the greater.

3. Timing of making good: During the next suitable planting season

740 Cleanliness

1. Soil and arisings: Remove from hard surfaces and grassed areas.
2. General: Leave the works in a clean tidy condition at Completion and after any maintenance operations.

750A Planting maintenance

1. For 12 months from practical completion
2. Monthly maintenance record sheets shall be submitted to the main contractor for circulation to the clients team. A client's representative will inspect and sign off the works as being complete and acceptable, any maintenance operations that fail shall be re-undertaken by additional herbicide or hand weeding.

TREES:

3. Maintain a 1.8m diameter weed free area around each tree in accordance with clause 790 with herbicide treatment or hand weeding if necessary.
4. Treat against pests and diseases;
5. Application of fertiliser in accordance with clause 755 in April and August;
6. Adjustment guys, refirming and replacing stakes, cross spars and ties. Replace broken or missing items, adjust if necessary to allow for growth and prevent rubbing of bark;
7. Watering to ensure moisture levels are maintained appropriate for optimum growth of trees.
8. Remove any vandalised trees
9. Remove any dead or dying trees and replace with original specification during the next available planting season.

SHRUBS:

10. Maintain shrub beds by hand weeding and or herbicide treatment to ensure weed free beds at all times - with all arisings removed from site ;
11. Remove litter and deleterious material during every site visit
12. Top up bark mulch levels in accordance with clause 790 to ensure full depth on mulch is retained;
13. Application of fertiliser in accordance with clause 755 in April and August;
14. Treat against pests and disease;

15. Planted areas: Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch;
16. Refirm plants after heavy winds, frost or other disturbances;
17. Prune plants in accordance with best practice and appropriate to species, remove arisings;
18. Watering to ensure moisture levels are maintained appropriate for optimum growth.
19. Remove any vandalised plants
20. Remove any dead or dying trees and replace with original specification during the next available planting season.

HEDGEROW

21. Maintain hedgerow by hand weeding and or herbicide treatment to ensure weed free hedge at all times - with all arisings removed from site;
22. Remove litter and deleterious material during every site visit;
23. Top up bark mulch levels in accordance with clause 790 to ensure full depth on mulch is retained;
24. Application of fertiliser in accordance with clause 755 in April and August;
25. Treat against pests and disease;
26. Adjust and refirm supporting fence to hedgerow;
27. Planted areas: Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch;
28. Refirm plants after heavy winds, frost or other disturbances;
29. Prune plants in accordance with best practice and appropriate to species, remove arisings;
30. Watering to ensure moisture levels are maintained appropriate for optimum growth.
31. Remove any vandalised plants
32. Remove any dead or dying trees and replace with original specification during the next available planting season.

BUFFER PLANTING:

33. Maintain woodland and understory plant with herbicide treatment to ensure a maximum weed coverage of 5% of weed at any one time, allow a minimum of 4 number herbicide treatments - if treatment fails an additional herbicide treatment shall be re-applied to woodland and buffer planting areas or hand weeded if necessary- with all arisings removed from site.
34. Remove litter and deleterious material during every site visit;
35. Application of fertiliser in accordance with clause 755 in April and August;

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External planting

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36. Treat against pests and disease;
37. Adjustment, reforming and replacing guards, stakes and ties;
38. Refirm plants after heavy winds, frost or other disturbances;
39. Watering to ensure moisture levels are maintained appropriate for optimum growth;
40. Remove any vandalised plants;
41. Remove any dead or dying trees and replace with original specification during the next available planting season.

755 Planting maintenance - fertilizer

1. Time of year: March or April.
2. Fertilizer: Slow release
 - 2.1. Manufacturer: Contractors choice
 - 2.2. Product reference: Contractors choice
3. Application: Evenly spread, carefully incorporating below mulch materials.
4. Coverage: To suit soil report recommendations

760 Planting maintenance - pruning

1. General: Prune at appropriate times, to remove dead or dying and diseased wood and suckers, to promote healthy growth and natural shape.
 - 1.1. Prune trees to favour a single central leading shoot.

780 Maintenance instructions

1. General: Before end of the period stated in clause 710, submit printed instructions recommending procedures to be established by the Employer for maintenance of the planting work for one full year: Provide a schedule of any ongoing maintenance problems experienced during the defects liability period

790A Final mulching

1. Timing: At end of the period stated in clause 710.
2. Watering: Ensure that soil is thoroughly moistened prior to remulching, applying water where necessary.
3. Planting beds and hedgerows: Remulch as clause 485.
4. Coverage: 75 mm thick
5. Trees: Remulch as clause 590.



Specification created using NBS Chorus