

**CHARLESTOWN WORKS, GLOSSOP  
for Sherwood Homes Ltd**

## **LANDSCAPE MANAGEMENT SPECIFICATION**



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# CONTENTS

|                            |                             |
|----------------------------|-----------------------------|
| 1.0                        | INTRODUCTION                |
| 2.0                        | EXISTING VEGETATION         |
| 3.0                        | GRASS AREAS                 |
| 4.0                        | WILDFLOWER AREAS            |
| 5.0                        | SHRUB BEDS                  |
| 6.0                        | NEW SPECIMEN TREES          |
| 7.0                        | NATIVE SPECIES SHRUB MIX    |
| 8.0                        | NATIVE SPECIES WOODLAND MIX |
| 9.0                        | HEDGING                     |
| 10.0                       | HARD SURFACES               |
| 11.0                       | WATER BODIES                |
| DRAWINGS 2675/8 & 9        |                             |
| LANDSCAPE MANAGEMENT PLANS |                             |

*To be read in conjunction with drawings 2675/8 & 9 entitled Landscape Management Plans which show the extent and location of each category of landscape below. See also Tree Report dated July 2016 and Ecological Management Plan prepared by SLR Consultants whose recommendations for action have been incorporated into this document.*

## **1.0 INTRODUCTION**

### **1.1 Purpose of Report**

- 1.1.1 The purpose of this report is to set out clearly the basic management/maintenance techniques appropriate to this site up to Year 5 in detail and basic recommendations beyond Year 5.
- 1.1.2 For the purpose of this report, on newly created landscapes, Year 1 begins 12 months after practical completion has been achieved, and the Defects Liability and Aftercare Period have been served and the site handed over.
- 1.1.3 The 12 months Aftercare Period should have included the following items:
- Maintaining a weed and litter free site
  - Herbicide and fertiliser applications
  - Ensuring mulch mats are secure and missing ones replaced
  - Ensuring bark mulch is evenly spread to specified depth and is replenished as necessary
  - Watering through periods without significant rainfall
  - Replacing plants that have died in the 12 months since practical completion was achieved.
- 1.1.4 Generally all the planting should be according to the relevant drawing, in a healthy condition, and free from litter and competition from weed growth.

### **1.2 Design Aims**

- 1.2.1 The design vision for the whole site is to provide an attractive, planted context for the new buildings and circulation areas. This will be achieved by retaining the substantial belts of tree planting along the northern and eastern site boundaries whilst augmenting this with new planting throughout the site.
- 1.2.2 The site is divided into two distinct areas (to east and west of Charlestown Road) but the soft landscape areas within each part will be maintained in a similar manner as described below. The principle difference is that areas adjacent to dwellings will be the responsibility of individual residents whereas all communal areas will be maintained by a management company.
- 1.2.3 Within the Semi Natural Broad Leaved Woodland, Ponds and Watercourse the aim is to enhance, where possible and appropriate, the structural and/or species diversity through the implementation of favourable management practices. New areas of open habitat will be created within the woodlands and around the ponds, to increase the habitat resource at the site and provide opportunities for a range of fauna, including wading birds, invertebrates and amphibians. In addition to the habitat creation and enhancement outlined above, features to increase opportunities for specific faunal groups – birds, bats and amphibians – within the Site will be provided. These enhancement measures will also benefit a range of common and widespread species.
- 1.2.4 The general aims of the management/maintenance plan are to present guidelines that enable the landscape to achieve the original design objectives whilst maintaining a presentable appearance at all times; these works are summarised in a table in the Appendix.

### 1.3 **The Specification**

The various landscape elements are collated together under the headings below. Their treatment is described in detail year by year up to Year 5 and with basic recommendations beyond Year 5.

|              |                             |
|--------------|-----------------------------|
| Section 2.0  | Existing Vegetation         |
| Section 3.0  | Grass Areas                 |
| Section 4.0  | Wildflower Areas            |
| Section 5.0  | Shrub Beds                  |
| Section 6.0  | New Specimen Trees          |
| Section 7.0  | Native Species Shrub Mix    |
| Section 8.0  | Native Species Woodland Mix |
| Section 9.0  | Hedging                     |
| Section 10.0 | Hard Surfaces               |
| Section 11.0 | Water Bodies                |

## 2.0 **EXISTING TREES AND VEGETATION** (see tree report for details of species)

### 2.1 **Maintenance Objective**

The aim is to retain the existing character of the woodland areas, ensuring the health and safety of all specimens contained therein.

### 2.2 **General Maintenance Application to all Years**

2.2.1 Maintain existing tree areas litter free.

2.2.2 Do not allow adjacent tenants to deposit rubbish, grass cuttings, or other deleterious materials within existing tree areas.

2.2.4 Inspect all existing trees on an annual basis and remove any deadwood. Cut back any limbs overhanging footpaths. Fell any tree that has become damaged. Cut up and remove branches. Cut up major limbs and leave on site to provide a habitat for invertebrates. Replace with feathered tree of same species, together with stake and tie, and maintain as New Specimen Trees (see Section 6).

2.2.5 Visits to site shall be made at the following intervals:

Grass cutting – normally every 10-14 days but frequency shall be adjusted as necessary to maintain height of sward within stated range.

Planting areas – monthly throughout growing season and as necessary during dormant season to resolve any outstanding items.

Inspection visit – annually in autumn to review state of plant growth and identify action required for the forthcoming growing season.

2.2.6 Understorey species will be left in situ as much as possible (consistent with effective use of adjacent ground) and existing tree crowns retained without lifting or significant thinning (unless there is a safety issue in regard to falling dead wood).

## 3.0 **GRASS AREAS** (see drawings for details of species)

### 3.1 **Maintenance Objective**

The maintenance objective is to provide an even standard of vegetation of uniform height and colour comprising of predominantly grass species, with no more than 5% dicotyledenous plants.

### 3.2 **Maintenance Operations – Year 1 and beyond**

Mowing shall be carried out using a cylinder rotary mower where appropriate to maintain the vegetation within the limits of 20mm and 50mm during April to September inclusive and between 30mm and 60mm during the rest of the year. The clippings may be returned but must be distributed evenly over the surface, and at no time shall the layer of clippings be of such a depth that will affect the growth of the sward.

- 3.2.1 Where necessary grass area may be sprayed overall with a suitable approved selective herbicide in accordance with the manufacturer's instructions. Alternatively, spot weeding of isolated weed infestation may be carried out.
- 3.2.2 Scarify grass annually in the autumn.
- 3.2.3 Apply organic fertiliser in the spring and autumn.
- 3.2.4 Spike for aeration to 150mm depth annually.
- 3.2.5 Remove all litter, debris, and deleterious material from the site at regular intervals and prior to mowings.
- 3.2.6 All edges of grass areas, against buildings, footpaths, roadways, trees, posts, and any other obstructions shall be kept neat and tidy by use of hand/mechanical edge trimmer or herbicide as appropriate.
- 3.2.7 Reinstatement by re-turfing or re-seeding of worn areas shall be undertaken as necessary and at the appropriate time of year.

## 4.0 **WILDFLOWER AREAS** (see drawings for details of species)

### 4.1 **Maintenance Objective**

The purpose of the wildflower areas is to form attractive grassed areas containing diverse grassland species that will increase the habitat diversity of the open spaces principally along the northern site boundary.

### 4.2 **Maintenance Operations - Year 1**

Cut twice per annum once in June and once in September, and remove arisings off site. Height of cut to be 50mm. Re-seed any areas that do not establish. Maintain free of invasive weeds by spot treating with herbicide (or by hand weeding in areas adjacent to any watercourse).

### 4.3 **Year 2 onwards**

Cut twice per annum once in June and once in September, and remove arisings off site. Height to be minimum 50mm.

## 5.0 **SHRUB BEDS** (see drawings for details of species)

### 5.1 **Maintenance Objective**

To maintain a boscage of shrub growth to cover as much as possible of the border area and allowing the individual plants to achieve as nearly as possible their natural form. Maintain the borders free of visible weeds and shape and prune the shrubs to avoid obstructing pathways or blocking light to windows.

## 5.2 Maintenance Operations - Year 1

- 5.2.1 Immediately after planting, and thereafter yearly, in the appropriate season for the species involved, prune the shrubs to develop their desirable ornamental characteristics. At the same time remove intermediate plants that are restricting the natural and attractive development of their neighbours. These plants may be used to fill gaps produced elsewhere in the scheme where species have not been as successful in their development. Remove all arisings from site.
- 5.2.2 Carry out appropriate maintenance operations as indicated on the planting schedule on the landscape drawing. The following maintenance operations to be applied as appropriate to the relevant species:
- Hard prune March – April (where species flowers on current year's wood)
  - Remove flower wood after flowering (where species flowers on last year's wood)
  - Clip or trim to maintain shape and bushy habit.
- 5.2.3 Maintain the soil surface substantially free of weeds (less than 5% weed cover) by spot treating with Glyphosate or approved equivalent during the growing season.
- 5.2.4 Top up mulch to 75mm depth as required.
- 5.2.5 Replace any dead or missing plants to the original specification.

## 5.3 Year 2

- 5.3.1 Prune the shrubs as much as is necessary to achieve their desirable ornamental features (flowering, autumn colours, overcrowded, leggy plants etc.), following sound horticultural practices, and to prevent them overgrowing footpaths or blocking light to windows. Carry out any maintenance operations as indicated in Item 5.2.2.
- 5.3.2 Remove all arisings from site as well as any damaged dead or diseased parts of the shrub.
- 5.3.3 Maintain any visible surface soil free of weeds as specified for newly planted borders.
- 5.3.4 Apply organic fertiliser prior to commencement of the growing season, except adjacent to any watercourses, prior to re-mulching any bare areas where necessary.
- 5.3.5 Apply fungicide/insecticide to any plants suffering from fungal infection or insect attack as per manufacturer's instructions.

## 5.4 Year 3 & Year 4

- 5.4.1 Repeat all the procedures as in Year 2.
- 5.4.2 Maintain any visible surface soil free of weeds (less than 5% weed cover) by applying an annual dressing of approved residual herbicide in the winter months and spot treating with Glyphosate or approved equivalent during the growing season.

## 5.5 Year 5

- 5.5.1 Repeat all the procedures as in Year 2 except item 5.3.4.

5.5.2 Thin out over mature plants that are becoming unsightly and have outgrown their useful life. Replace these with young plants as per the original specification where gaps remain.

## 5.6 **Beyond Year 5**

The above 5-year cycle should be repeated thereafter except omit Item 5.3.4. Maintain bare patches weed and litter free, however allow the growth of self-seeded, regenerated shrub species. Formative prune shrubs as required to achieve their desirable ornamental features as Item 5.2.2.

## 6.0 **NEW SPECIMEN TREES** (see drawings for details of species)

### 6.1 **Maintenance Objective**

Establish a stable and healthily growing tree within three years from planting with a well-shaped framework for future growth.

### 6.2 **Maintenance Operations - Year 1**

6.2.1 A one metre diameter circle is to be maintained weed free around all specimen trees. Circle to be topped up with mulch and spot treated as necessary to maintain weed free. The bases of trees in planted beds to be absorbed into the general maintenance of the areas in which they occur.

6.2.2 All dead and missing specimen trees or trees which fail to develop properly during the first season after planting shall be replaced. Specification for replacements shall be the same as for their originals.

6.2.3 Water newly planted trees throughout the summer months (April to September) at weekly intervals after any period of four weeks without significant rainfall (less than 5mm). Apply sufficient water to thoroughly wet the top 150mm of soil around the tree roots. This will normally require 10 litres for a seedling or whip and 20 litres for a standard tree.

6.2.4 Check stakes and ties for firmness and support and adjust or replace as necessary. Check once a year in late spring.

6.2.5 Firm the soil around the roots to ensure that the tree is securely planted in the ground and upright.

6.2.6 Formative prune the tree to remove any dead, diseased or damaged shoots and create a balanced form for future growth.

### 6.3 **Year 2**

6.3.1 Begin phased removal of tree stakes and ties beginning with the stakes of the most vigorous and established trees, except in special circumstances.

6.3.2 Repeat procedures 6.2.1 to 6.2.3 inclusive.

6.3.3 Apply organic fertiliser prior to commencement of growing season at a rate of 30 litres per tree.

### 6.4 **Year 3**

6.4.1 Continue phased removal of tree stakes and ties beginning with the stakes of the most vigorous and established trees, except in special circumstances.

6.4.2 Repeat procedures 6.2.1 to 6.2.3 inclusive.

- 6.4.3 Thin out competing species of plants around the bases of specimen trees occurring in planted beds to reduce competition.
- 6.4.4 Apply organic fertiliser prior to commencement of growing season at a rate of 30 litres per tree.
- 6.5 **Year 4**
- 6.5.1 Continue phased removal of tree stakes and ties beginning with the stakes of the most vigorous and established trees, except in special circumstances.
- 6.5.2 Repeat procedures 6.2.1 to 6.2.3 inclusive.
- 9.5.3 Apply organic fertiliser prior to commencement of growing season at a rate of 30 litres per tree.
- 6.6 **Year 5 and beyond**  
Repeat procedures 6.2.1 to 6.2.3 inclusive.
- 7.0 **NATIVE SPECIES SHRUB MIX** (see drawings for details of species)
- 7.1 **Maintenance Objective**  
To maintain a boscaige of shrub growth to cover as much as possible of the area and allowing the individual plants to achieve as nearly as possible their natural form. Maintain the borders free of visible weeds and shape and prune the shrubs to prevent obstruction of pathways.
- 7.2 **Maintenance Operations - Year 1**
- 7.2.1 Immediately after planting, and thereafter yearly, in the appropriate season for the species involved, prune the shrubs to ultimately develop their desirable natural mature form (see maintenance operations on landscape drawing). At the same time remove intermediate plants that are restricting the natural and attractive development of their neighbours. These plants may be used to fill gaps produced elsewhere in the scheme where species have not been as successful in their development. Remove all arisings from site.
- 7.2.2 Prune *Corylus avellana* (Hazel) down to 200mm above ground level to stimulate bushy habit. Repeat process every 2 years thereafter.
- 7.2.3 Maintain the soil surface substantially free of weeds (less than 5% weed cover) by applying an annual dressing of approved residual herbicide in the winter months and spot treat with Glyphosate or approved equivalent during the growing season. Handweed where necessary and in areas adjacent to water course, or where contamination of watercourse could occur.
- 7.3 **Year 2**
- 7.3.1 Prune shrubs as much as is necessary to achieve their natural shape (flowering, autumn colours or overcrowded and leggy plants etc), following sound horticultural practices, and to prevent them overgrowing footpaths.
- 7.3.2 Remove all arisings from site as well as any damaged dead or diseased parts of the shrub.
- 7.3.3 Maintain any visible surface soil free of weeds.

- 7.3.4 Apply organic fertiliser prior to commencement of the growing season, except adjacent to watercourses.
- 7.3.5 Ensure ground surface maintained weed free by mechanical or chemical means.
- 7.3.6 Apply fungicide/insecticide to any plants suffering from fungal infection or insect attack as per manufacturer's instructions. Avoid any contact with watercourse.
- 7.4 **Years 3 & Year 4**  
Repeat all the procedures as in Year 2.
- 7.5 **Year 5**
- 7.5.1 Repeat all the procedures as in Year 2 except 7.3.6. Thin out over mature plants that are becoming unsightly and have outgrown their useful life. Replace these with young plants as per the original specification, where gaps remain.
- 7.5.2 Formative prune shrubs as required
- 7.6 **Beyond Year 5**  
The above 5-year cycle should be repeated thereafter except omit item 7.3.6. Maintain bare patches weed and litter-free, however allow the growth of self-seeded, regenerated shrub species. Formative prune shrubs as required to achieve their desirable features.
- 8.0 **NATIVE SPECIES WOODLAND MIX** (see drawings for details of species)
- 8.1 **Maintenance Objective**  
The objective of the maintenance and management of the main woodland mix is to create in time a predominantly closed tree canopy with species (Alder, Oak). The woodland mix will also have an understorey of smaller trees (Birch, Field Maple) and lower level shrubs (Hawthorn). Structural diversity will be a feature of the woodland mixes; this will add greatly to the visual interest of the areas. This diversity will be achieved through management in terms of thinning/rotational coppicing and allowing gaps to develop in the overall canopy. Weed control will be quickly phased out to reduce costs and to allow a natural woodland ground flora to develop. Maintain litter free beds (applicable to all years). Apply organic fertiliser around base of all plants at a rate of 2 litres per plant, and rake in prior to commencement of growing season.
- 8.2 **Maintenance Operations - Year 1**
- 8.2.1 Treat all planting beds with residual herbicide applied to bare ground.
- 8.2.2 Spot treat any weeds with glyphosate (or similar approved) herbicide to maintain weed free planting beds.
- 8.2.3 Prune out any dead wood.
- 8.2.4 Refirm all plants.
- 8.2.5 Prune down 50% of Hawthorn to approx. 300mm above ground level at the end of the dormant period (March) every second year to stimulate bushy growth. Repeat process every 2 years thereafter.

- 8.2.6 Replace dead or missing plants to original specification.
- 8.2.7 Where transplants and whips have been planted with a 'shelterguard' check that these are securely staked in position, and replace as required.
- 8.3 **Year 2**  
Repeat procedures for Year 1.
- 8.4 **Year 3**
- 8.4.1 Repeat procedures for Year 1. Where ground cover has not yet been established, replace dead or missing plants to original specification in order to maintain uniform density of cover throughout the plantations.
- 8.4.2 Thin out as necessary any weak specimens in all species of plants.
- 8.4.3 Thin out one plant in all the groups of nurse species: *Betula pendula* (Silver Birch), *Alnus glutinosa* (Alder).
- 8.4.4 Coppice remaining 50% of shrub species - *Crataegus monogyna* (Hawthorn) - down to 300mm above ground level and repeat process every 4 years thereafter:
- 8.4.5 Prune down to 500mm above ground level to stimulate multi-stemmed effect 50% of plant numbers (once only operation): *Betula pendula* (Birch).
- 8.4.6 Thin out species of plants where required if they are suppressing the slower growing canopy trees such as Oak and Beech.
- 8.4.7 Remove tree shelters and any remnants of biodegradable mulch mats.
- 8.5 **Year 4**
- 8.5.1 The canopies of the trees should now be touching therefore there is no further requirement for applications of herbicide. A natural woodland ground flora should now be encouraged to develop.
- 8.5.2 Thin out species of plants where required if they are suppressing the slower growing canopy trees such as Oak and Beech.
- 8.5.3 Thin out, as necessary, any weak specimens in all species of plants.
- 8.6 **Year 5**
- 8.6.1 Thin out the following nurse species to leave only one tree growing in each group: *Alnus glutinosa* (Alder), *Betula pendula* (Birch).
- 8.6.2 The remaining 50% of plant numbers not coppiced in item 8.4.4 above should now be coppiced down to 300mm above ground level and repeat process every 5 years thereafter: *Crataegus monogyna* (Hawthorn).
- 8.6.3 Thin out species where required if they are suppressing the slower growing canopy trees such as Oak and beech. Thin out main canopy species if overcrowding is occurring.

8.6.4 Replace dead or missing plants to original specification in order to maintain uniform density of cover throughout the plantations.

## 8.7 **Beyond Year 5**

8.7.1 Continue the 5-yearly cycles of coppicing, commencing these cycles from the date in which this operation was first carried out on particular plants. (Year 3 - item 8.4.4, Year 5 - item 8.6.2).

8.7.2 Continue the 2-yearly cycles of pruning commencing from the date in which this operation was first carried out on particular plants (Year 1 - item 8.2.5).

8.7.3 Review tree spacing on a 3-year rota and thin out as necessary to reduce any overcrowding in the crowns.

8.7.4 Thin out canopies at occasional locations to create light pockets (5m x 5m) that will favour the lower growing levels of vegetation and create visual interest.

8.7.5 As tree species develop into mature trees they should be checked on an annual basis for health or structural defects which may affect the adjacent housing. This procedure should be carried out following severe storms.

## 9.0 **HEDGING** (see drawing for details of species)

### 9.1 **Maintenance Objective**

All hedges are to be carefully and regularly clipped with line and level being maintained to promote a dense, uniform and tidy appearance, according to the type of hedge and situation. Regularly mow or otherwise control any weed or grass growth at the base of the hedge so that it does not detract from the overall appearance. Maintain litter free beds (applicable to all years).

### 9.2 **Maintenance Operations - Year 1**

9.2.1 Spot treat any weeds with glyphosate (or similar approved) during the growing season prior to topping up with 75mm depth bark mulch where applicable to suppress weeds and retain soil moisture. Carefully clip and prune the top and sides of the hedge to promote dense growth to ground level and in the desirable parameters that the hedge will eventually attain. Prune the top of the hedge only when it has achieved its desired height (100-150cm).

### 9.3 **Year 2**

Water recently replaced plants as necessary to ensure establishment. Apply fungicide and or insecticide to any plants suffering from fungal infection or insect attack. Repeat all operations as for Year 1.

### 9.4 **Year 3**

Repeat procedures as for Year 2 above, residual herbicide may be applied to bare ground in accordance with manufacturer's instructions.

### 9.5 **Year 4**

Hedge should be dense and clothed in leaves to ground level, no further requirement for spot treating weeds or topping up mulch. Replace dead or missing plants as necessary to maintain the hedge density. Clip the top and sides of the hedges to maintain true and even levels and using suitable mechanical cutters to retain shape and height. Remove any cuttings lodged in the surface

of the hedge and rake up and remove all arisings. Allow for the operation to be carried out to suit the species and the position of the hedge as follows:

9.5.1 Formal hedge (Cherry Laurel and Privet) - cut once every four weeks in the main growing season.

9.6 **Year 5 and beyond**  
Repeat procedures as for Year 4 above.

## 10.0 **HARD SURFACES**

10.1 **Maintenance Objective**  
To maintain in a safe and tidy condition suitable for use by all site users – both tenants and visitors.

10.2 **Maintenance Operations - Year 1 onwards**  
Inspect footpath surfaces and repair as required to ensure that they are safe. Collect all litter and remove from site

mp/ROSETTA LANDSCAPE DESIGN  
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projects/docs/2675-lms-31aug16

# APPENDIX

OPERATIONAL SCHEDULES

Note: numbers in brackets after each heading refer to section within main text which contains a full description of each operation

| Operation                                                                                                                                                                                                               | Year |   |   |   |   | Proposed frequency | Restrictions                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|---|---|---|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                         | 1    | 2 | 3 | 4 | 5 |                    |                                                                                                                                                           |
| <i>Existing Vegetation (2.0)</i>                                                                                                                                                                                        |      |   |   |   |   |                    |                                                                                                                                                           |
| Undertake annual walkover inspection.                                                                                                                                                                                   | #    | # | # | # | # | Annually           | Any required works to TPO trees to have permission of local authority                                                                                     |
| Identify areas where rubbish, grass cuttings or other materials have been deposited; remove from site.                                                                                                                  | #    | # | # | # | # | Monthly            | Advise landowner for need for action to address problem (e.g. speak to adjacent tenants)                                                                  |
| Remove any failing/dead material on health and safety (or visual) grounds.                                                                                                                                              | #    | # | # | # | # | As required        | Undertake works out of bird nesting season. Cut up major limbs and leave on site to provide a habitat for invertebrates; remove smaller branches off site |
| Remove any non-native or invasive species. Replace with feather of appropriate species and maintain as New Specimen Trees.                                                                                              | #    | # | # | # | # | As required        | Undertake works out of bird nesting season.                                                                                                               |
| Create open glade in northern woodland where amenity grassland exists at present. Carry out selective thinning around edges to create a graduated edge.                                                                 | #    |   |   |   |   | Once only          |                                                                                                                                                           |
| Manage open glade by: <ul style="list-style-type: none"> <li>Mowing central and tall herb/ grassland zones</li> <li>Cutting/ coppicing of shrubby woodland edge</li> <li>Pulling of emerging scrub seedlings</li> </ul> |      | # | # | # | # | Annually           | Undertake works out of bird nesting season.                                                                                                               |
| Create log piles within both areas of woodland                                                                                                                                                                          | #    | # | # |   |   | Annually           | If considered appropriate after each annual site visit.                                                                                                   |
| Treat Japanese knotweed                                                                                                                                                                                                 | #    |   |   |   |   | Annually           | By specialist contractor                                                                                                                                  |
| Remove rhododendron and cherry laurel                                                                                                                                                                                   | #    |   |   |   |   | Annually           | by specialist contractor                                                                                                                                  |
| Monitor presence of Japanese knotweed and undertake additional work as necessary                                                                                                                                        |      | # | # | # | # | Annually           |                                                                                                                                                           |

| Operation                                                                                                 | Year |   |   |   |   | Proposed frequency   | Restrictions/Notes                                                                       |
|-----------------------------------------------------------------------------------------------------------|------|---|---|---|---|----------------------|------------------------------------------------------------------------------------------|
|                                                                                                           | 1    | 2 | 3 | 4 | 5 |                      |                                                                                          |
| Monitor presence of rhododendron and cherry laurel and undertake additional work as necessary             |      | # | # | # | # | Annually             |                                                                                          |
| monitor bat and bird boxes; clean latter as necessary                                                     |      | # | # | # | # | Annually             | by suitably qualified ecologist.                                                         |
| <i>Grass Areas (3.0)</i>                                                                                  |      |   |   |   |   |                      |                                                                                          |
| Maintain amenity grass to uniform height as specified                                                     | #    | # | # | # | # | Normally fortnightly | Adjust frequency as appropriate to weather conditions and growth rate                    |
| Apply organic fertiliser                                                                                  | #    | # | # | # | # | Once annually        | In spring or autumn                                                                      |
| Apply selective herbicide                                                                                 | #    | # | # | # | # | Once annually        | As instructed by landscape architect                                                     |
| Scarify or spike for aeration to 150 mm depth as appropriate                                              | #    | # | # | # | # | Once annually        |                                                                                          |
| Reinstate any damaged areas as required by re-seeding or re-turfing                                       |      | # | # | # | # | Annually in season   |                                                                                          |
| Maintain edges against buildings, footpaths, roadways, etc neat and tidy by mechanical or chemical means. | #    | # | # | # | # | Once annually        | Employ mechanical means in areas adjacent to any watercourse                             |
| <i>Wildflower Areas (4.0)</i>                                                                             |      |   |   |   |   |                      |                                                                                          |
| Cut to 50 mm height and remove arisings off-site                                                          | #    | # | # | # | # | June and September   |                                                                                          |
| Re-seed any areas that do not establish                                                                   | #    | # | # | # | # | Annually in season   |                                                                                          |
| Maintain free of invasive weeds by spot treating with herbicide                                           | #    | # | # | # | # | Monthly              | Employ hand weeding in areas adjacent to any watercourse                                 |
| <i>Ornamental Shrub Beds (5.0)</i>                                                                        |      |   |   |   |   |                      |                                                                                          |
| Maintain shrub beds weed free                                                                             | #    | # | # | # | # | Monthly              | Avoid use of chemicals in areas containing herbaceous plants or bulbs                    |
| Apply organic slow-release fertiliser                                                                     |      | # | # | # |   | Once annually        | In March or April                                                                        |
| Check firmness of shrubs and re-firm as required                                                          | #    | # | # | # | # | Monthly              | Carry out additional checks after exceptionally windy or frosty weather during years 1-2 |

| Operation                                                                               | Year |   |   |   |   | Proposed frequency               | Restrictions/Notes                                                                                  |
|-----------------------------------------------------------------------------------------|------|---|---|---|---|----------------------------------|-----------------------------------------------------------------------------------------------------|
|                                                                                         | 1    | 2 | 3 | 4 | 5 |                                  |                                                                                                     |
| Prune shrubs to remove damage and to develop their desirable ornamental characteristics | #    | # | # | # | # | Once annually                    | Either (i) hard prune March-April or (ii) remove flower wood after flowering (dependent on species) |
| Replace defective and failed plant material                                             | #    | # | # | # | # | Once annually                    | Review density of bed and only replace if gaps are evident                                          |
| Top up mulch to original depth                                                          | #    | # | # |   |   | Once annually                    | In March or April                                                                                   |
| Litter pick/remove fly tipping. Remove all arisings.                                    | #    | # | # | # | # | Monthly                          | Check for harbouring wildlife.                                                                      |
| Water as required                                                                       | #    | # | # |   |   | As required                      | Weekly April to September during prolonged dry weather                                              |
| <i>New Specimen Trees (6.0)</i>                                                         |      |   |   |   |   |                                  |                                                                                                     |
| Maintain tree circles in grass weed free                                                | #    | # | # | # | # | Monthly                          | Avoid use of chemicals in sensitive/nature conservation areas                                       |
| Apply organic fertiliser                                                                | #    | # | # |   |   | Once annually                    | In March or April                                                                                   |
| Check firmness of trees and re-firm is required                                         | #    | # | # |   |   | Monthly                          | Carry out additional checks after exceptionally windy or frosty weather during years 1-2            |
| Prune damaged branches                                                                  | #    | # | # | # | # | As required                      | Prune as soon as identified                                                                         |
| Check tree stakes/ties and repair/replace                                               | #    | # | # |   |   | Every three months               | Replace as soon as identified with materials to existing specification                              |
| Check establishment of trees and remove stakes if necessary                             |      |   | # | # | # | As required                      | Commence with most vigorous and well-established trees                                              |
| Replace defective and failed trees                                                      | #    | # | # | # | # | Once annually in planting season | Replace all failures in year one and thereafter as agreed at annual walkover                        |
| Top up mulch to tree circles in grassed areas                                           | #    | # | # | # | # | Once annually                    | In March or April                                                                                   |
| Litter pick                                                                             | #    | # | # | # | # | Monthly                          | Remove all risings from site to tip in accordance with relevant Waste Management Regulations        |
| Water as required                                                                       | #    | # | # |   |   | As required                      | Weekly April to September during prolonged dry weather                                              |

| Operation                                                                                                          | Year |   |   |   |   | Proposed frequency  | Restrictions/Notes                                                                  |
|--------------------------------------------------------------------------------------------------------------------|------|---|---|---|---|---------------------|-------------------------------------------------------------------------------------|
|                                                                                                                    | 1    | 2 | 3 | 4 | 5 |                     |                                                                                     |
| <i>Native Species Shrub Mix (7.0)</i>                                                                              |      |   |   |   |   |                     |                                                                                     |
| Prune all species to remove damage and to develop their natural characteristics                                    | #    | # | # | # | # | Once annually       | Only undertake work as necessary                                                    |
| Prune Dogwood down to 300mm above ground level                                                                     | #    |   | # |   | # | Bi-annually         | To stimulate bushy growth and ensure a bright display of coloured stems             |
| Maintain ground surface substantially free of weeds (Less than 5% weed cover) by application of residual herbicide | #    | # | # |   |   | Once annually       | Apply herbicide during winter months. Avoid use of chemicals in sensitive areas     |
| Spot treat with glyphosate or hand weed where necessary during the growing season                                  | #    | # | # |   |   | Monthly             |                                                                                     |
| Replace dead or missing plants                                                                                     | #    | # | # | # | # | Once annually       | Replace to original specification only where gaps are obvious                       |
| Apply fungicide/insecticide to any plants suffering from fungal infection or insect attack                         | #    | # | # | # | # | Monthly             | Use as per manufacturer's instructions; avoid any contact with watercourses         |
| Thin out over mature plants that are becoming unsightly and have outgrown their useful life.                       |      |   |   | # | # | Once annually       | Replace with young plants as per the original specification only where gaps remain. |
| <i>Native Species Woodland Mix (8.0)</i>                                                                           |      |   |   |   |   |                     |                                                                                     |
| Treat bare ground with residual herbicide; spot treat any weeds with glyphosate.                                   | #    | # | # |   |   | Monthly             | Avoid use of chemicals in sensitive areas                                           |
| Prune out deadwood                                                                                                 | #    | # | # | # | # | Once annually       |                                                                                     |
| Re-firm all plants                                                                                                 | #    | # | # |   |   | Monthly             |                                                                                     |
| Replace dead or missing plants to original specification                                                           | #    | # | # | # | # | Once annually       | Replace to original specification only where gaps are obvious                       |
| Check shelter guards and stakes; replace as required                                                               | #    | # | # | # | # | Monthly             |                                                                                     |
| Thin out one specimen within groups of nurse species (Birch and Alder)                                             |      |   | # |   | # | Bi-annually         | Select weakest plants to thin. Retain one tree in each group after five years       |
| Prune 50% of Birch down to 500mm above ground level.                                                               |      |   | # |   |   | Once only operation | To stimulate multi-stemmed effect                                                   |

| Operation                                                                                 | Year |   |   |   |   | Proposed frequency            | Restrictions/Notes                                                                           |
|-------------------------------------------------------------------------------------------|------|---|---|---|---|-------------------------------|----------------------------------------------------------------------------------------------|
|                                                                                           | 1    | 2 | 3 | 4 | 5 |                               |                                                                                              |
| Thin out plants where they are suppressing the slower growing canopy trees (Oak and Lime) |      |   | # | # | # | Once annually                 |                                                                                              |
| Coppice 50% of shrub species (Hazel, Hawthorn, Elder) to 300mm                            |      |   | # |   | # | 50% of plants every two years | Repeat operation thereafter coppicing each 50% on a four yearly cycle                        |
| <i>Hedging (9.0)</i>                                                                      |      |   |   |   |   |                               |                                                                                              |
| Maintain 300 mm diameter area around each plant weed free by mechanical or chemical means | #    | # | # | # | # | Monthly                       | Avoid use of chemicals in sensitive areas                                                    |
| Check firmness of plant material and re-firm is required                                  | #    | # | # |   |   | Monthly                       | Carry out additional checks after exceptionally windy or frosty weather during years 1-2     |
| Cut formal hedges (Cherry Laurel and Privet) throughout main growing season               | #    | # | # | # | # | Monthly                       |                                                                                              |
| Replace dead or missing plants                                                            | #    | # | # | # | # | Once annually                 | Replace to original specification where gaps occur                                           |
| Top up mulch to original depth                                                            | #    | # | # |   |   | Once annually                 | In March or April                                                                            |
| Water as required                                                                         | #    | # | # |   |   | As required                   | Weekly April to September during prolonged dry weather                                       |
| Litter pick                                                                               | #    | # | # | # | # | Monthly                       | Remove all risings from site to tip in accordance with relevant Waste Management Regulations |
| <i>Hard Surfaces (10.0)</i>                                                               |      |   |   |   |   |                               |                                                                                              |
| Inspect footpath surfaces and repair as required to ensure that they are safe.            | #    | # | # | # | # | Once annually                 |                                                                                              |
| Collect all litter and remove from site                                                   | #    | # | # | # | # | Monthly                       |                                                                                              |

| Operation                                                                                                        | Year |   |   |   |   | Proposed frequency                                        | Restrictions/Notes                          |
|------------------------------------------------------------------------------------------------------------------|------|---|---|---|---|-----------------------------------------------------------|---------------------------------------------|
|                                                                                                                  | 1    | 2 | 3 | 4 | 5 |                                                           |                                             |
| <i>Water Bodies (11.0)</i>                                                                                       |      |   |   |   |   |                                                           |                                             |
| Inspect footpath surfaces and repair as required to ensure that they are safe.                                   | #    | # | # | # | # | Once annually                                             |                                             |
| Collect all litter and remove from site                                                                          | #    | # | # | # | # | Monthly                                                   |                                             |
| Selectively thin young trees and scrub/ shrubs around pond edges reducing shade by no more than 25%.             | #    | # |   |   |   | Annually                                                  | To include removal of seedlings.            |
| Plant water forget-me-not and water starwort (as plugs) along southern edge of pond                              | #    |   |   |   |   |                                                           | In appropriate season                       |
| Monitor marginal vegetation within ponds. Clear vegetation if cover exceeds 40%.                                 |      | # | # | # | # | Annually                                                  |                                             |
| Monitor ponds for algal blooms. Remove and treat with barley straw if necessary                                  |      | # | # | # | # | Annually                                                  |                                             |
| Selective thin young trees and scrub along watercourse edges, aiming to achieve 50% sunlight/ 50% dappled shade. |      | # | # | # | # | Annually                                                  |                                             |
| Undertake hay cut on land between ponds and watercourse.<br>Mow re-growth                                        |      |   |   | # | # | July/August<br><br>Between August and late autumn/winter. |                                             |
| Remove Himalayan Balsam (by hand-pulling) from land between ponds and watercourse                                | #    | # |   |   |   | Early/mid summer                                          | Undertake work prior to plants setting seed |
| Monitor presence of Himalayan balsam and remove as necessary                                                     |      |   | # | # | # | Early/mid summer                                          | Undertake work prior to plants setting seed |
| Create hibernaculum on land between ponds and watercourse                                                        |      |   | # |   |   | Once only                                                 | After Himalayan balsam removed.             |
| Monitor hibernaculum and take action as necessary                                                                |      |   |   | # | # | Annually                                                  |                                             |