

SOFT LANDSCAPE WORKS MAINTENANCE AND MANAGEMENT PROPOSALS

OXW Hayes Sarl

HAYES BRIDGE RETAIL PARK



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CONTENTS

Maintenance and Management Statement

Appendix A Year 1 Landscape Maintenance Schedule

Appendix B Maintenance Schedule Matrix for 5 year period

Appendix C Landscape drawings:

2246-21-03 Landscape Concept Plan

2246-21-04 Landscape Concept Sections

MAINTENANCE AND MANAGEMENT STATEMENT

(Refer to Appendix C for Soft Landscape Proposals drawing)

The establishment and future success of the external landscape is largely dependent on the standard and frequency of the subsequent maintenance and management it receives. Throughout the development period and thereafter a maintenance and management regime will be adopted with the following aims and objectives.

The aims and objectives of the landscape maintenance and management will be:

- To ensure the successful establishment and continued growth through to maturity of the soft landscape scheme shown on drawing no. 2246-21-03 Landscape Concept Plan and 2246-21-04 Landscape Concept Sections
- To ensure that the infrastructure landscape at Hayes Bridge Retail Park develops in a manner commensurate with the original design intentions.
- To ensure the successful establishment and retention of effective landscape buffer planting, particularly along the Northern and Southern boundaries of the site.
- To secure a long term future for the existing trees and new tree and thicket planting with particular emphasis upon achieving enhancement of ecological potential, conservation and visual amenity, particularly along the Yeading Brook Watercourse to the East.
- To achieve rapid establishment of the plant material with resultant total ground cover, thereby suppressing weed growth and reducing maintenance requirements.
- To retain the natural growth form and maximise the seasonal potential of individual species by the pruning methods adopted.
- To manage the landscape in a manner convivial with the safety of site users, such as maintaining visibility splays and the removal of dead, dangerous or diseased tree branches. And to wash soil off of hard surfaces to be repeat at each maintenance visit.
- To ensure the successful establishment and continual enhancement of the landscape areas in accordance with ecological principles /ecologist's recommendations to increase the overall bio-diversity of the site.

The soft landscape will, for the initial 1 year after Practical Completion, be maintained by the Landscape Contractor responsible for implementation of the works. The contract will include a defects liability clause to ensure replacement planting is carried out and successful establishment achieved. Refer to Appendix A for the schedule of maintenance for year 1. Thereafter maintenance contracts will be organised by facilities management on an annual basis.

The maintenance and management matrix (Appendix B) provides information the general techniques and methods to be adopted for the ongoing maintenance operations.

These will be reviewed at regular intervals to respond to natural or man made changes in the environment which affect the landscape types (eg. tree disease).

The above approach will ensure that the quality of the landscape infrastructure created in the early years can be maintained for the benefit of visitors to the Hayes Bridge Retail Park as well as providing a benefit to persons who live near and pass by the boundaries. In addition it will ensure that the landscape develops to maximise the ecological potential of the proposals.

APPENDIX A

Year 1 Landscape Maintenance Schedule

	YEAR 1 LANDSCAPE MAINTENANCE SCHEDULE	Frequency
	Description	
	During the initial twelve month period after Practical Completion.	
	Note: Allow for twenty-two maintenance visits (18 during the growing season, 4 during the dormant season). A visit shall be defined as the period of time required by the Contractor to carry out all maintenance items specified in the Schedule of work below.	
A	GENERAL	
A.1	Tidy up areas removing rubbish, litter, etc., from planted and grassed areas.	At each visit
A.2	Check that the plant material is firmly planted and firm in where required.	6 times
A.3	Treat pests and diseases by agreement with the Contract Administrator.	As necessary
A.4	Prune woodland transplants / shrubs as necessary to avoid conflict with footpaths, grass mowing, etc.	As necessary
B	TREE PLANTING	
B.1	To extra heavy standard/heavy standard trees: Check, adjust and replace stakes and ties as necessary. Prune, water and feed where required.	As necessary
B.2	Check spiral guards and replace when required.	Four times
C	NATIVE THICKET PLANTING	
C.1	Keep areas clear of weed growth by spot herbicide treatment as appropriate from mid April to late September.	Four times
C.2	Check shelter guards and refirm / replace when required. Remove weed growth from within.	Four times

	Continued on Page A/2	
	YEAR 1 LANDSCAPE MAINTENANCE SCHEDULE (continued)	Frequency
D	NATIVE HEDGEROW	
D.1	Keep areas clear of weed growth by hand weeding and spot herbicide as appropriate from mid April to late September in accordance with ecologist's recommendations.	Four times
D.2	Check shelter / spiral guards and refirm/replace when required. Remove weed growth from within if necessary.	Four times
D.3	Prune hedges as necessary to maintain desired height as shown on the drawing.	As necessary
E	TALL TRANSITIONAL AND ORNAMENTAL SHRUB PLANTED AREAS	
E.1	Water ornamental shrub beds to maintain healthy growth.	As necessary
E.2	Prune shrubs as required to achieve desired form and prevent invasive species smothering less aggressive species.	As necessary
E.3	Prune dead, dangerous or diseased wood from plant material.	As necessary
E.4	Keep shrub areas clear of weed growth by hand weeding and spot herbicide treatment as appropriate.	12 times
E.5	Apply a slow release fertilizer, Enmag CRF or similar approved, composition NPK 11 + 22 + 9 + 6.0% Mg, to shrub areas at a rate of 30 gms / m ² (timing to be agreed with Contract Administrator).	Once only
E.6	Edge up planted areas to maintain soil level 25mm below adjacent hard surfaces and kerbs. Any soil washed onto hard surfaces to be cleaned off. Repeat at each maintenance visit.	At each visit
E.7	Lightly cultivate all shrub beds, breaking up soil evenly. Once only. Timing to be agreed with the Contract Administrator.	Once only
F	MAINTENANCE OF SPECIES RICH GRASSLAND AREAS	
F.1	If autumn sown the sward shall be cut 3no. times in first year, once in March, once in May and once in September. If Spring sown then sward shall be cut once after six weeks (if sufficient material) and then twice more, once in May and once in September. Maintenance thereafter to be cut twice per annum, once in March / April and once in September / October. All cuts to be to a length of 40-70mm and to the recommendations of the seed supplier. Note: at each cut excessive arisings shall be removed from site.	When appropriate to maximize seed dispersal.
F.2	No pesticides or fertilizer will be used.	

APPENDIX B

Maintenance Schedule Matrix for 5 year period

5 YEAR PERIOD LANDSCAPE MANAGEMENT SCHEDULE OF WORK MATRIX

ITEM OF WORK	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5 ONWARDS
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GENERAL

Tidy up areas removing rubbish, litter, etc, from planted and grass areas	✓	✓	✓	✓	✓
Treat pests and disease as necessary	✓	✓	✓	✓	✓
Water all plant material and grass as necessary to maintain healthy growth	✓	✓	✓		
Check plant material is firmly planted and firm in where required.	✓	✓	✓		
Dead, dangerous or diseased wood to be pruned out	✓	✓	✓	✓	✓
Check shelter guards / rabbit protection and refirm / replace as required including removing weed growth from within. Consider removal at years 4 to 5.	✓	4 times	4 times	2 times	2 times
Removal of diseased or dead plants with replacements as appropriate	✓	✓	✓	✓	✓

TREE PLANTING

Check, adjust, replace stakes and ties as necessary. Remove stakes after approximately 3 years if appropriate. Prune, water and feed as necessary.	✓	✓	✓	✓	✓
Remedial tree surgery as necessary to remove any dead, dangerous or diseased branches and to allow the tree to achieve full stature. All works to be carried out by an Arboricultural Association approved contractor in accordance with BS3998: Recommendations for Tree Work.	✓	✓	✓	✓	✓

WOODLAND EDGE THICKET / NATIVE HEDGE PLANTED AREAS

Keep areas clear of weed growth by herbicide treatment as appropriate from mid April to late September.	4 times	4 times	4 times	4 times	2 times
Woodland mix planting to be managed to ultimately achieve a tree canopy with understorey. Woodland Edge mix to achieve age diversity. A gradual development of a diverse age structure should be established over a period of time by the use of a regime of selective thinning, pruning and coppicing.					1/3 of thicket plants
Remove branches that overhang footpaths or prevent access for grass cutting. Allow native hedges to achieve natural form with only lower branches removed.	✓	✓	✓	✓	✓
Prune native hedges to heights stated on landscape drawings (approx. timing September) as required depending on establishment. Cut sides, tops and ends to straight and true lines.	✓	✓	✓	✓	✓

5 YEAR PERIOD LANDSCAPE MANAGEMENT SCHEDULE OF WORK MATRIX continued

ITEM OF WORK	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5 onwards
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SHRUB PLANTED AREAS

Keep ornamental shrub areas clear of weed growth by hand weeding or spot herbicide treatment.	12 times	12 times	12 times	10 times	10 times
Prune shrubs as necessary to prevent invasive species smothering less aggressive species and to prevent shrubs overhanging footpaths and other areas of hard paving.	✓	✓	✓	✓	✓
Slow release fertilizer application as appropriate to ensure establishment of planting.	✓	✓	✓		
Lightly cultivate all planted areas, breaking up soil evenly. Once only.	✓	✓			
Edge up planted areas to maintain soil level 25mm below adjacent hard surfaces and kerbs. Any soil wash onto hard surfaces to be cleaned off.	✓	✓	✓	✓	✓

MEADOW GRASS AREAS

Grass cutting. 1no. cut per year When appropriate to maximize seed dispersal following recommendation from an ecologist.	✓	✓	✓	✓	✓
Treat and remove pernicious weed growth where it may be detrimental to establishment of wildflower sward.	✓	✓	✓	✓	✓

APPENDIX C

2246-21-03 Landscape Concept Plan & 2246-21-04 Landscape Concept Sections