SOFT LANDSCAPE WORKS MAINTENANCE AND MANAGEMENT PROPOSALS – 5 YEARS

BARNSLEY ROAD Goldthorpe





Barry Chinn Associates Limited Harbury Road, Deppers Bridge Southam, Warwickshire, CV47 2SZ

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Author:	MG
Checked:	MG

MAINTENANCE AND MANAGEMENT STATEMENT

APPENDICES

APPENDIX B MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 5 YEAR PERIOD

APPENDIX C DRAWINGS

DRAWING TITLE	SCALE	DRAWING NO.
Landscape Species Schedule	1:500-A2	GDT-BCA-ELS-XX-DR-L-S4-2267/22-01
Landscape Location Plan	1:2500-A1	GDT-BCA-ELS-XX-DR-L-S4-2267/22-02
Landscape Plan Drawing 03	1:500-A0	GDT-BCA-ELS-XX-DR-L-S4-2267/22-03
Landscape Plan Drawing 04	1:500-A0	GDT-BCA-ELS-XX-DR-L-S4-2267/22-04
Landscape Plan Drawing 05	1:500-A0	GDT-BCA-ELS-XX-DR-L-S4-2267/22-05
Landscape Plan Drawing 06	1:500-A0	GDT-BCA-ELS-XX-DR-L-S4-2267/22-06
Landscape Plan Drawing 07	1:500-A0	GDT-BCA-ELS-XX-DR-L-S4-2267/22-07
Landscape Plan Drawing 08	1:500-A0	GDT-BCA-ELS-XX-DR-L-S4-2267/22-08
Landscape Plan Drawing 09	1:500-A0	GDT-BCA-ELS-XX-DR-L-S4-2267/22-09
Tree Pit, Staking & Plant Protection details	1:20-A1	GDT-BCA-ELS-XX-DR-L-S4-2267/22-20

MAINTENANCE AND MANAGEMENT STATEMENT

(Refer to Appendix C for landscape proposals drawings)

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 Landscape Proposals drawings.
- To ensure that the infrastructure and plot landscape at Barnsley Road develops in a manner commensurate with the original design intentions.
- To ensure that the maintenance and management of the soft landscape areas is commensurate with and achieves the aims and objectives of the Ecological Management Plan prepared by FPCR.
- To ensure the successful establishment and retention of effective landscape buffer planting, particularly along the 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.
- 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, dying or diseased tree branches.
- To ensure the successful establishment and continual enhancement of the landscape areas in accordance with ecological principles /ecologist's recommendations to increase the overall biodiversity 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 development at Barnsley Road, Goldthorpe 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.

YEAR 1 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.	
GENERAL	
Tidy up areas removing rubbish, litter, etc., from planted and grassed areas.	At each visit
Check that the plant material is firmly planted and firm in where required.	6 times
Treat pests and diseases by agreement with the Contract Administrator.	As necessary
Prune woodland transplants / shrubs as necessary to avoid conflict with footpaths, grass mowing, etc.	As necessary
TREE PLANTING	
To extra heavy standard/heavy standard trees: Check, adjust and replace stakes and ties as necessary. Prune, water and feed where required.	As necessary
Check spiral guards and replace when required.	Four times
WOODLAND / THICKET / NATIVE HEDGE PLANTED AREAS	
Keep areas clear of weed growth by spot herbicide treatment as appropriate from mid April to late September.	Four times
Check shelter guards and refirm / replace when required. Remove weed growth from within.	Four times
ORNAMENTAL/FORMAL CLIPPED HEDGEROW	
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
	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. GENERAL Tidy up areas removing rubbish, litter, etc., from planted and grassed areas. Check that the plant material is firmly planted and firm in where required. Treat pests and diseases by agreement with the Contract Administrator. Prune woodland transplants / shrubs as necessary to avoid conflict with footpaths, grass mowing, etc. TREE PLANTING To extra heavy standard/heavy standard trees: Check, adjust and replace stakes and ties as necessary. Prune, water and feed where required. WOODLAND / THICKET / NATIVE HEDGE PLANTED AREAS Keep areas clear of weed growth by spot herbicide treatment as appropriate from mid April to late September. Check shelter guards and refirm / replace when required. Remove weed growth from within. ORNAMENTAL/FORMAL CLIPPED HEDGEROW Keep areas clear of weed growth by hand weeding and spot herbicide as appropriate from mid April to late September in accordance with

YEAR 1 LANDSCAPE MAINTENANCE SCHEDULE	FREQUENCY
ORNAMENTAL/FORMAL CLIPPED HEDGEROW (CONTINUED)	
Check shelter / spiral guards and refirm/replace when required. Remove weed growth from within if necessary.	Four times
Prune hedges as necessary to maintain desired height as shown on the drawing.	As necessary
SHRUB PLANTED AREAS	
Water ornamental shrub beds to maintain healthy growth.	As necessary
Prune shrubs as required to achieve desired form and prevent invasive species smothering less aggressive species.	As necessary
Prune dead, dying or diseased wood from plant material.	As necessary
Keep shrub areas clear of weed growth by hand weeding and spot herbicide treatment as appropriate.	12 times
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 / m2 (timing to be agreed with Contract Administrator).	Once only
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
Lightly cultivate all shrub beds, breaking up soil evenly. Once only. Timing to be agreed with the Contract Administrator.	Once only
MAINTENANCE OF GRASS AREAS (CLOSE MOWN)	
Grass will be mown as required . Litter will be collected immediately prior to mowing. Note: at each cut excessive arisings shall be removed from site.	12-18 times/year dependent on location & season
Fertilizer will be applied.	As necessary
PROVISIONAL Supply and apply a selective herbicide in accordance with manufacturer's recommendations.	As necessary
	ORNAMENTAL/FORMAL CLIPPED HEDGEROW (CONTINUED) Check shelter / spiral guards and refirm/replace when required. Remove weed growth from within if necessary. Prune hedges as necessary to maintain desired height as shown on the drawing. SHRUB PLANTED AREAS Water ornamental shrub beds to maintain healthy growth. Prune shrubs as required to achieve desired form and prevent invasive species smothering less aggressive species. Prune dead, dying or diseased wood from plant material. Keep shrub areas clear of weed growth by hand weeding and spot herbicide treatment as appropriate. 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 / m2 (timing to be agreed with Contract Administrator). 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. Lightly cultivate all shrub beds, breaking up soil evenly. Once only. Timing to be agreed with the Contract Administrator. MAINTENANCE OF GRASS AREAS (CLOSE MOWN) Grass will be mown as required . Litter will be collected immediately prior to mowing. Note: at each cut excessive arisings shall be removed from site. Fertilizer will be applied. PROVISIONAL Supply and apply a selective herbicide in accordance with manufacturer's

	YEAR 1 LANDSCAPE MAINTENANCE SCHEDULE	FREQUENCY
	MAINTENANCE OF GRASS AREAS (CONTINUED)	
F.4	Water grass as necessary to achieve establishment and maintain healthy growth.	As necessary
F.5	Shape grass edge with half moon spade. Timing to be agreed with Contract Administrator.	Two times
F.6	Worn areas will be re-seeded.	May or September
G	MAINTENANCE OF SPECIES RICH GRASSLAND AREAS	
G.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.
G.2	No pesticides or fertilizer will be used.	

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 5 YEAR PERIOD

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 5 YEAR PERIOD					
ITEM OF WORK	YR 1	YR 2	YR 3	YR 4	YR 5 ONWARDS
GENERAL					
Tidy up areas removing rubbish, litter, etc, from planted and grass areas	\checkmark	~	~	~	~
Treat pests and disease as necessary	\checkmark	~	~	~	~
Water all plant material and grass as necessary to maintain healthy growth	\checkmark	~	~		
Check plant material is firmly planted and firm in where required.	\checkmark	~	~		
Dead, dying or diseased wood to be pruned out	\checkmark	~	~	~	~
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	\checkmark	~	~	~	~

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, dying 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 / 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. Thicket 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

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 5 YEAR PERIOD						
ITEM OF WORK	YR 1	YR 2	YR 3	YR 4	YR 5 ONWARDS	
WOODLAND / WOODLAND EDGE THICKET / NATIVE HEDGE PLANTED AREAS (CONTINUED)						
Remove branches that overhang footpaths or prevent access for grass cutting. Allow native hedges to achieve natural form with only lower branches removed.	V	V	V	~	4	
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.	¥	V	V	~	4	
SHRUB AND FORMAL HEDGE PLANTED ARE	AS					
Keep ornamental shrub and formal hedge 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.	~	~	~			
Prune formal hedges to heights stated on landscape drawings (approx. timing May and September). Cut sides, tops and ends to straight and true lines.	~	2 times	2 times	2 times	2 times	
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.	✓	~	√	√	4	

CLOSE MOWN GRASS AREAS

Grass cutting with edge trim (where required).					
Frequency of grass cutting operations to be					
commensurate with location and visual	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
importance of grass area: Up to 18no. cuts per					
year					

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 5 YEAR PERIOD YR 5 **ITEM OF WORK** YR 1 YR 2 YR 3 YR 4 **ONWARDS CLOSE MOWN GRASS AREAS (CONTINUED)** Shape grass edge as necessary with half moon √ √ ✓ ✓ ✓ spade. 2 times per year. Application of fertilizer and selective weedkilller ✓ √ √ ✓ ✓ as appropriate ✓ ✓ √ ✓ ✓ Re-seeding of worn areas

SPECIES RICH GRASSLAND/WILDFLOWER 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.	~	~	~	~	~

AQUATIC AREAS

Aquatic areas shall be maintained to achieve the original design objectives. Where necessary aggressive or pernicious weeds or woody plants shall be removed.	~	~	V	~	V
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FLOOD ATTENUATION AREAS

Willow and other native shrub species planted within areas of flood attenuation shall be coppiced to ground level on a cyclical basis. Selected trees shall be allowed to grow on to mature size. Excessive feathered growths at base of plants shall be removed if they would significantly reduce flood attenuation capacity.	1/3 rd of plants	1/3 rd of plants every second year
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APPENDIX C

DRAWINGS

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