

**SOFT LANDSCAPE WORKS
MAINTENANCE AND
MANAGEMENT PROPOSALS
– 10 YEARS**

**INDURENT PARK, MOORGATE
POINT**

KNOWLSEY



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Drawing No.	Drawing Title	Rev
2465-25-01	Landscape Concept Proposal	09
2465-25-02	Amenity Area Concept Proposal	03
2465-25-03	Landscape Concept Sections	03

MAINTENANCE AND MANAGEMENT STATEMENT

(Refer to Appendix C for BCA drawing(s): Landscape Concept Proposal & Landscape Concept Sections)

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 2465-25-01 - Landscape Concept Proposal.
- To ensure that the infrastructure landscape at Moorgate Point, Knowsley 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 Landscape & Ecological Management Plan (LEMP) prepared by SK Environmental Solutions Ltd
- To ensure the successful establishment and retention of effective landscape buffer planting, particularly along the Southern boundaries of the site.
- To secure a long-term future for the existing trees, plus the new tree and native shrub 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 hedgerow & grassland areas in accordance with the project 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 (e.g., 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 Moorgate Point, Knowsley 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

LANDSCAPE MAINTENANCE AND MANAGEMENT SCHEDULE FOR YEAR 1

	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 HEDGEROW AREAS	
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 re-firm / replace when required. Remove weed growth from within.	Four times
D	ORNAMENTAL / FORMAL CLIPPED HEDGES	
D.1	Keep areas clear of weed growth by hand weeding and spot herbicide as appropriate from mid-April to late September.	Four times
D.2	Check shelter guards and re-firm / 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

	YEAR 1 LANDSCAPE MAINTENANCE SCHEDULE	FREQUENCY
E	AMENITY PLANTING AREAS (shrubs, grasses, herbaceous)	
E.1	Water amenity planting beds to maintain healthy growth.	As necessary
E.2	Prune amenity planting as required to achieve desired form and prevent invasive species smothering less aggressive species.	As necessary
E.3	Prune dead, dying or diseased wood from plant material.	As necessary
E.4	Keep amenity planting 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 amenity planting beds, breaking up soil evenly. Once only. Timing to be agreed with the Contract Administrator.	Once only
F	AMENITY GRASS AREAS	
F.1	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.	11 - 18 times per year dependent on location and season
F.2	Fertilizer will be applied.	As necessary
F.3	<u>PROVISIONAL</u> Supply and apply a selective herbicide in accordance with manufacturer's recommendations.	As necessary
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

	YEAR 1 LANDSCAPE MAINTENANCE SCHEDULE	FREQUENCY
G	SPECIES RICH GRASSLAND AREAS	
G.1	If Autumn sown the sward shall be cut 3no. times in the first year: 1. once in March 2. once in May 3. once in September If Spring sown the sward shall be cut 3no. times in the first year: 1. once after six weeks (if sufficient material has grown) 2. once in May 3. once in September After the first year the sward shall be cut 2no. times per year: 1. once in March / April 2. 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.	
H	MAINTENANCE OF FLOOD ATTENUATION/ DRAINAGE BASIN AREAS	
H.1	Aquatic areas shall be maintained to achieve the original design objectives. Where necessary aggressive or pernicious weeds or woody plants shall be removed.	As necessary
H.2	All basins to be inspected annually for the presence of litter, debris and pollutants. All litter and debris to be removed by hand and taken off site.	As necessary
H.3	Removal of excessive or over dominant aquatic vegetation growth and debris around inlet outlet headwalls to prevent blockage.	As necessary

APPENDIX B

LANDSCAPE MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 10 YEAR PERIOD

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 10 YEAR PERIOD

ITEM OF WORK	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 9	YR 10
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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, dying, or diseased wood to be pruned out.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Check shelter guards / rabbit protection and re-firm / 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, 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.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 10 YEAR PERIOD (CONTINUED)

ITEM OF WORK	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 9	YR 10
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WOODLAND CORE / WOODLAND EDGE & NATIVE HEDGEROW 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	2 times	2 times	Once	Once	Once
Woodland Core mix planting to be managed to ultimately achieve a tree canopy with understorey. Woodland Edge mix planting to achieve age diversity. A gradual development of a diverse age structure should be established over time using a regime of selective thinning, pruning, and coppicing (year 5 and 8).					1/3 of thicket plants			1/3 of thicket plants		
Remove branches that overhang footpaths or prevent access for grass cutting. Allow native trees to achieve natural form with only lower branches removed.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Prune native hedges to heights stated on landscape drawings. Approximate timing: September and in accordance with ecologist's recommendations to maximise wildlife benefit. Cut sides, tops, and ends to straight and true lines.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

AMENITY PLANTING & FORMAL, CLIPPED HEDGE PLANTED AREAS

Keep amenity planting 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	6 times	6 times	6 times	6 times	6 times
Prune plants as necessary to prevent invasive species smothering less aggressive species and to prevent plants overhanging footpaths and other areas of hard paving.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Slow-release fertilizer application as appropriate to ensure establishment of planting. N/A to native amenity & hedge species.	✓	✓	✓							

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 10 YEAR PERIOD (CONTINUED)										
ITEM OF WORK	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 9	YR 10
AMENITY PLANTING & FORMAL, CLIPPED HEDGE PLANTED AREAS (continued)										
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	2 times	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.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

AMENITY GRASS AREAS

Grass cutting with edge trim (where required). Frequency of grass cutting operations to be commensurate with location and visual importance of grass area: Between 11 and 18no. cuts per year	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shape grass edge as necessary with half-moon spade. 2 times per year.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application of fertilizer and selective weedkiller as appropriate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Re-seeding of worn areas	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 10 YEAR PERIOD (CONTINUED)

ITEM OF WORK	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 9	YR 10
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SPECIES RICH GRASSLAND

Grass cutting: 1no. cut in March / April. 1no. cut in September / October. 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 species rich grassland 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.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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FLOOD ATTENUATION/ DRAINAGE BASIN AREAS

Aquatic areas shall be maintained to achieve the original design objectives. Where necessary aggressive or pernicious weeds or woody plants shall be removed.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
All basins to be inspected annually for the presence of litter, debris and pollutants. All litter and debris to be removed by hand and taken off site.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Removal of excessive or over dominant aquatic vegetation growth and debris around inlet outlet headwalls to prevent blockage										

APPENDIX C

DRAWINGS

Drawing No.	Drawing Title	Rev
2465-25-01	Landscape Concept Proposal	09
2465-25-02	Amenity Area Concept Proposal	03
2465-25-05	Landscape Concept Sections	03