

Landscape Management Plan for Bicester Technical Site To discharge planning condition 21

For: Bicester Motion

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1.0 Background

The requirement is for a Landscape Management Plan (LMP) required to discharge the Planning Condition 21 which states:

"Prior to the first use of the development hereby approved, a schedule of landscape maintenance and a landscape management plan for a minimum period of 5 years, to include the timing of the implementation of the schedule, management responsibilities, maintenance schedules, details of the future management, and procedures for the replacement of failed planting shall be submitted to and approved in writing by the Local Planning Authority. Thereafter, the landscape maintenance shall be carried out in accordance with the approved schedule."

This document sets out those objectives and should provide the Local Planning Authority with the assurance that the management of the completed planting works will be carried out in accordance with good practice.

2.0 <u>Site information</u>

| Site name: Brief description: | Bicester Technical Site, Skimmingdish Lane, Bicester New native trees, new native thicket planting, new native boundary hedging and internal site planting plus new species rich grassland habitat and marginal water habitat. | |
|----------------------------------|---|--|
| Area hectares: | 1.6 hectares | |
| Management plan start date: | Post completion | |
| Management plan end date: | Post completion plus 5 years | |
| Land tenure: | The site is owned by the applicant and will be managed by a managing agent contractor working on behalf of the client. | |
| Access and rights of way: | There is no public access or right of way over the site | |
| Designations: | The site is not designated for any nature conservation purposes | |
| | However the Local Bicester Airfield Wildlife Site designation does | |
| | apply immediately adjacent to the east of the site and wraps around | |
| | the majority of the periphery of the flying field. | |

3.0 Purpose of this management plan

This management plan provides management prescriptions to achieve successful establishment of the landscape planting. It also includes prescriptions for monitoring to ensure that the objectives are being achieved. It is to be used by those responsible for delivering the plan and those responsible for monitoring its implementation.

The management plan includes prescriptions for the first five years after completion. It will thereafter be reviewed and if necessary updated.



4.0 Site location and description

The site is located to the north of A4421 (Skimmingdish Lane), Bicester, near to the junction with the A421 Aylesbury Road. The development will comprise 8 plots for commercial development. The site is enclosed by existing hedging and trees on its south west flanks located within the highway corridor. Access is to be obtained from Skimmingdish Lane.

The proposed development layout is presented in Drawing ASA-561-DR-001 P7 Appendix 1 reproduced at small scale below.





5.0 Management prescriptions – Minimum 5 years post completion

Refer to ASA Landscape Architect's Drawing ASA-561-DR-001 P7 – Appendix 1.

Landscape management prescriptions

Ecological Solutions have prepared a comprehensive ecological assessment of the site (ref: 7884.EcoAss.vf July 2018). Mitigation measures, including the provision and future management of areas of grassland and tree and shrub planting, will appropriately mitigate for any losses to the habitats supported within the site, post development. The scattered trees and young woodland offers nesting and foraging opportunities for birds, and also offers limited suitable foraging and navigational resources for bats. The conclusions reached by the Ecological Solutions Ecology Report were that: *it is considered that the proposals offer enhancements for biodiversity over the existing situation. The proposals therefore fully accord with current legislation and policy pertinent to ecology and nature conservation.*

An indicative schedule of operations and frequencies has been prepared (Appendix 2) to describe the typical work that will be required annually in the first 5 years of establishment.

General

| 1a | Plant protection | | |
|--|--|--|--|
| | Any broken or missing canes or stakes used for taller plants, or damaged shrub guards will be replaced; periodic inspections will check and address any guards that are rubbing or otherwise restricting plant development. | | |
| Individual plant supports or protection will be removed in Year 3. | | | |
| | BS 8545:2014 Trees: from nursery to independence in the landscape | | |
| | Adhere generally to guidelines in Chapter 11 Post planting management and maintenance. | | |
| | <u>Firming up</u> | | |
| | Any leaning or wind-loosened plants will be straightened and re-firmed, including after frost heave. | | |
| | Establishment watering | | |
| | For the first two years after planting, watering will be undertaken as necessary using irrigation pipe to ensure successful establishment; watering is to be thorough to encourage deep root growth. Thereafter, watering as necessary during drought periods only. Timing and frequency to take account of prevailing weather conditions, soil moisture release, response of the tree species to water deficits or prolonged soil saturation. | | |
| | The holding capacity of the soil should be assessed. | | |
| | The amount of water available to the tree to be assessed. An irrigation plan will be necessary as part of the management programme supplied by the contractor. | | |
| | Monitoring is recommended when 10 consecutive days at 25 degrees is recorded during the growing | | |



season. Water should only be added if the probe / tensiometer values indicate that it would be appropriate to do so. Mulching and weed control Planting bed will be thoroughly mulched with approved composted bark to a depth of min 50mm. Depth of mulch to be checked twice per year and maintained at 50mm depth until such a time as plant growth excludes weeds. Mulch surface to be kept free from grass and weeds by hand-weeding. Health and Safety/Risk Assessments and PPE The term 'appropriate personnel' should include trained and experienced operatives in respect of COSHH regulations (application of pesticides/herbicides). Contractor's risk assessments should be implemented prior to the works. Appropriate operatives' PPE should also be used, and social distancing measures observed as per Government Guidelines in relation to the COVID 19 pandemic. Periodic inspection New trees will be incorporated into the site-wide Tree Safety Management Policy. After 5 years, all new specimen trees will be incorporated into the site's regular health and safety monitoring inspections, under a Tree Safety Management Policy which will include Tree Safety Management surveys carried out every two years. Also see 2d. **Replacement of failures** Any plants that die within the first 5 years will be replaced on a one for one basis between November and March, following the established planting specification.

Planted Trees

| 2a. | • Newly planted trees should be managed via appropriate protection through the establishment p including tree guards as necessary and also removal at the appropriate time (Normally Year 3). | | | |
|-----|--|--|--|--|
| 2b | Formative Pruning to BS 3998: to prevent co-dominant stems (increases failure potential); aggressive branches develop low on the stem and when removed result in larger ugly stem wounds; vigorous branches grow long on the lower part of the stem and break off. | | | |
| 2c. | Trees to be maintained in the first years via regular weeding and watering (see establishment watering above) to promote establishment. (Likely to need weekly watering for first few weeks and through any dry spells – weeding every two months in first growing season). Mulched circles 800mm diameter are to be maintained around each tree in grass areas. | | | |
| 2d | Tree health A formal assessment of tree health and development carried out annually, foliar appearance assessment necessary (lack of leaf chlorosis and/or necrosis), leaf size and leaf canopy density, extension growth and incremental girth development | | | |



Hedgerows

| 3a | Existing Hedgerows | | |
|----|--|--|--|
| | Existing hedgerows are to be maintained via regular formative trimming to maintain shape and to control height to a maximum height of 3m. The aim shall be to encourage thickening of the base of the hedge and initially to remove dead wood. Hedges to be kept weed free by spraying strip along base of hedge. | | |
| 3b | New Hedgerows and Thicket Planting | | |
| | New hedgerows and thicket planting, as shown in the locations on the landscape plans maintained in the first 2 years establishment via regular weeding and watering to pro- establishment as above. Thereafter control of weeds by strimming will still be required. The t mix is the same as the hedge mix. The hedge is that section along the southern boundary op Building Units 139 to 148. | | |
| | Thereafter - hedgerows to be managed wherever possible by trimming annually in autumn / winter. (By alternating management of sections native hedges a source of winter berries will always be available for birds). Hedgerows to be kept between 1.5 and 2.5 metres in height in order to maintain their biodiversity and or amenity value. | | |
| | Thickets are to be thinned as appropriate to achieve a density of plants of approximately 1/3m2 to be reviewed in year 5 retaining the proportions of the original planting mix. This will allow light for the tree species to develop and mature to their full stature. Further thinning will be required in years 5-10 to further this aim. Thicket planting can be left to achieve its natural height. | | |
| | Note all hedge pruning and thinning shall be outside the bird nesting season February to August. | | |

Ground cover

| 4a | Areas of Vinca major provide shade tolerant ground cover along the southern margin of the site | | | | |
|----|---|--|--|--|--|
| | between the buildings and the boundary hedging. This is planted at a density of 7/m2 and should | | | | |
| | form a good ground cover to suppress weeds after the first season. Hand pulling or careful spot | | | | |
| | treatment of weeds will be required as necessary. | | | | |

Grassland

| 5a. | Amenity and shade tolerant lawns will be mown on a regular basis as per agreed programme/indicative schedule of operations provided in Appendix 2. Subsequent management in terms of frequency of cutting will vary according to soil conditions, micro-climate etc. |
|-----|--|
| 5b | Species rich grass mixes shall be kept weed free during the first two growing seasons by hand pulling or spot treatment with approved herbicide. Bare patches or a thin sward are to be expected during establishment. These areas should be cut after flowering species have set seed – Late July/August. Cut material should be left for 5-7 days in situ to allow for seeds to shed on the ground surface before being raked off and removed from site. Dried seed heads should be shaken/riddled over bare areas |



| to provide overseeding. |
|-------------------------|

Retention Lagoons

| e | 6a | Check for invasive species and silt build up as per agreed schedule/indicative schedule of operations. | | | |
|---|----|--|--|--|--|
| | | The removal (timeframe/phasing) of invasive vegetation and de-silting is to be implemented under | | | |
| | | the guidance of an ecologist. No chemical spray to be applied within the vicinity of the waterbody. | | | |

Hard Landscaping

| 7a | Maintain all areas of hard standing and paths in a weed free condition. Areas of grasscrete shall be |
|----|--|
| | mown as necessary and otherwise kept weed free. Check the condition of boundary fences |
| | periodically. |

Long Term Management

| 8a. | Ensure that appropriate personnel are able to oversee management and ensure allocation of resources. See Risk Assessments above. |
|-----|--|
| | Revise and renew the management plan for the site every five years, to ensure continuity of management in the longer term. |

6.0 <u>Constraints</u>

There are no identified constraints to implementing this management plan.



Appendix 1 – Planting Proposals Plan ASA-561-DR-001 P7



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programme of maintenance operations.

| P6 | TREE LOCATIONS | VF | 02.01.20 | |
|-------|----------------|--------------|----------|--|
| T1 | TENDER ISSUE | CP | 30.11.18 | |
| P5 | FIFTH ISSUE | RS | 26.11.18 | |
| P4 | FOURTH ISSUE | AM | 23.11.18 | |
| P3 | THIRD ISSUE | AM | 22.11.18 | |
| P2 | SECOND ISSUE | RS | 21.11.18 | |
| P1 | FIRST ISSUE | CP | 20.07.18 | |
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Drg. No. ASA-561-DR-001



Appendix 2 Indicative Landscape Maintenance Schedule



INDICATIVE LANDSCAPE MAINTENANCE SCHEDULE

The following schedule is indicative of the operations and frequency of visits that should be expected of any future maintenance contractor, based on the landscape drawing no. ASA-561-DR-001 P7. The schedule is broken down into tasks that relate to the different landscape categories.

| Description | Associated maintenance and monitoring items | Minimum Frequency per annum | | |
|-----------------------------|--|-----------------------------------|--|--|
| General | Allow for compliance with Preliminaries and Conditions of Contract Health and Safety requirements and government guidelines, and otherwise descriptions of work and operations contained within this Landscape Management Plan. | | | |
| Failures | | | | |
| Amenity Grass | Generally | | | |
| areas | Mowing amenity close mown grass | As required | | |
| | Weed Control - :approved selective herbicide and spot treatment with Glyphosate | As required | | |
| | Spring fertiliser surface application to grass areas | 1 | | |
| | Autumn fertiliser surface application to grass areas | 1 | | |
| | Clear all leaf accumulation from grass areas | As required | | |
| | Topdressing, Spiking, Scarifying, Firming, Levelling | 1 | | |
| | Defective grass and reinstatement | As required | | |
| Reform grass edges | Reforming grass edges generally and to tree circles | 2 | | |
| Species rich Grass | Hand weeding, targeted spot treatment with glyphosate before weeds seed. If this is not possible they must be hand pulled. | As required | | |
| | Annual cut late July/August after seed has set. Leave cutting on surface for 5-7 days before raking off and shaking/riddle seed heads to populate bare areas | 1 | | |
| General Tree maintenance | Maintenance of existing Trees to inc pruning, hand weeding | 6 | | |
| | Checking Tree Guards, Tubes, Ties and Guys | 6 | | |
| | Watering as required in first 2 seasons | As required | | |
| | Firming up | As required | | |
| | Mulching | 2 | | |
| Native Thicket / | Seasonal Pruning | 1 | | |
| Hedges | Formative pruning: alternate areas every two years to maintain food sources for birds aiming to only prune half in any one year | 1 or as required | | |
| | Weeding by herbicide for first 2 years and thereafter control by strimming down vegetation. | 4 | | |
| | Firming up | As required | | |
| Ground cover | Maintenance of bark mulch (only if required) to include topping up | 1 | | |
| | Clear all leaf accumulation from ground cover areas Hand pulling or careful spot treatment of weeds will be required as necessary. | As required As required | | |
| Retention | Monitor silt build up and remove as agreed | 1 | | |
| lagoons | Monitor invasive species and remove as instructed | ` | | |
| Hard Landscaping | Maintain all areas of hard standing and paths in a weed free condition. Areas of grasscrete shall be mown as necessary and otherwise kept weed free. Check the condition of boundary fences periodically. | As required | | |



MANAGEMENT WORK PROGRAMME - YEAR 1-5

YEARS 1-5 Numbers relate to the seasons in which

operations should be carried out.

Seasons – 1 Spring, 2 Summer, 3 Autumn, 4 Winter, 5 All Seasons

| No | Project Title | 1 | 2 | 3 | 4 | 5 |
|----------------------|--|-----|-----|-----|-----|-----|
| 1 | General items are guided by schedule below | | | | | |
| | | | | | | |
| | Trees | | | | | |
| 2a | Check tree guards | 1-3 | 1-3 | 1-3 | 1-3 | 1-3 |
| 2b | Formative Pruning | 4 | 4 | 4 | 4 | 4 |
| 2c | Maintain in first year by weeding, checking of guards etc Watering as required | 1-3 | 1-3 | 1-3 | 1-3 | 1-3 |
| 2d | Monitor tree health | 2 | 2 | 2 | 2 | 2 |
| | Thickets and Hedgerows | | | | | |
| 3a | Existing hedges pruning | 4 | 4 | 4 | 4 | 4 |
| b V N P | New hedges and thickets - Maintain in first year by weeding Watering as required | 4 | 4 | 4 | 4 | 4 |
| | Manage native hedgerows by trimming 50% annually each year. | 4 | 4 | 4 | 4 | 4 |
| | Preliminary thinning of thickets only as required to be reviewed in Year 5 | 4 | 4 | 4 | 4 | 4 |
| 4a | Ground Cover | | | | | |
| | Remove weeds as required | 1-3 | 1-3 | 1-3 | 1-3 | 1-3 |
| | Grassland | | | | | |
| 5a | Amenity grass mow as required | 1-3 | 1-3 | 1-3 | 1-3 | 1-3 |
| 5b | Species Rich grass mow annually after seed has set | 2 | 2 | 2 | 2 | 2 |
| | Retention Lagoons | | | | | |
| 6a | Monitor silt build up and remove as agreed | 4 | 4 | 4 | 4 | 4 |
| | Monitor invasive species and remove as instructed | 4 | 4 | 4 | 4 | 4 |
| 7a | Hard Landscaping | 5 | 5 | 5 | 5 | 5 |
| 8a | Oversee plan implementation | 5 | 5 | 5 | 5 | 5 |
| | | | | | | |
| | | | | | | |