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LLWYB KNOTTIA FARM, CONTAINER STORAGE

LANDSCAPE MAINTENANCE SCHEDULES

Landscape Institute Registered Practice

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Contents

1.0 Introduction

2.0 Maintenance Schedules

3.0 Appendix

1.0 Introduction

1.1 The following maintenance schedules and specification have been provided to assist in the soft landscape maintenance post development of a container storage facility at Llwyn Knottia Farm, Wrexham.

1.2 Maintenance schedules should be read in conjunction with the following drawings (See Appendix):

- SJ.LKF.01_Llwyn Knottia Farm- Planting GA
- SJ.LKF.02_Llwyn Knottia Farm- Planting Schedules and Outline Maintenance specification.

1.3 The schedules and specification cover a 5 year period after completion of soft landscape works. Every 5 years the schedules and specification should be reviewed and updated where necessary to reflect any changes on the site or to targets. This will review the type and frequency of maintenance operations to ensure the continued high-quality management of the site in accordance with the design philosophy and landscape requirements as the site establishes and matures.

Aims, Objectives and Targets for Management

1.4 There are 4 strategic design objectives for the scheme:

1. Provide new native landscape features that will sympathetically integrate into the wider environment and mature to create an attractive setting.

2. Maintain existing and proposed landscape features to a high level to ensure they develop naturally and thrive with their environment.

3. Ensure there is a biodiversity benefit to the development through the provision and maintenance of existing and proposed soft landscape features.

4. Provide a tidy, safe and well-maintained environment for the site owners and visitors

2.0 Maintenance Schedules

Proposed Soft Landscape Features

1. New Hedgerows
2. New Trees
3. Existing Scrub

1. Landscape Feature: New Hedgerows

Objective
H1 Hedgerow to be managed proactively to maintain structure to provide bird nesting habitat.
H2 Protect hedgerow from damage from rodents.
H3. Ensure hedgerows remain species rich.
H4. Ensure newly planted hedgerows establish and thrive.
H5. Ensure hedgerow is protected from damage from livestock and horses.

Operation/Prescription	Frequency per annum	Years applicable/ or frequency over the 5-year plan period	Indicative timing of operation (monthly)											
			J	F	M	A	M	J	J	A	S	O	N	D
Remove litter and detritus from within hedgerows as part of monthly site cleanse (Objectives H1, H2 and H4)	12	1 to 5	■	■	■	■	■	■	■	■	■	■	■	■
Replant/ gap up hedgerow where plants have not established or have died. Ensure species are as per the original specification. (Objective H3).	1	1 to 3	■	■	■								■	■
Check rabbit/ rodent guards and supporting canes. Repair/ replace as required. (H2)	1	1 to 5	■	■	■	■	■	■	■	■	■	■	■	■
Keep area weed free through regular hand weeding (Objectives H1 and H4)	12	1 to 5	■	■	■	■	■	■	■	■	■	■	■	■
Watering as required during establishment particularly during times of prolonged drought. (Objective H1 &H4)	As required	1-3				■	■	■	■	■	■			
Keep area beneath new hedgerow mulched with c. 75mm depth bark, until hedge thickens and becomes established. (H4)	1	1-3	■	■	■	■	■	■	■	■	■	■	■	■
Trim/face up hedgerows twice annually in first 3 years to maintain form and encourage bushy growth avoiding bird nesting season (March to August). (Objectives H1)	2	1 to 3		■							■			

Trim/face up hedgerows annually to maintain form and encourage bushy growth avoiding bird nesting season (March to August). (Objectives H1)	1	4-5												
Check fencing and wire to neighbouring livestock field. Repair or replace fencing and wire as required. (H5)	1	1-5												
Organic mulch/feed application in spring and autumn as required (Objective H2)	2	1 to 3												

2. Landscape Feature: New Trees

Objective

T1 To allow trees to successfully establish to increase hedgerow tree cover and provide a succession of native hedgerow tree species.

T2 Management to provide conditions where a healthy tree root system and canopy will develop.

T3 Monitor trees for signs of disease and take action to prevent the spread through the site.

Operation/Prescription	Frequency per annum	Years applicable/ or frequency over the 5-year plan period	Indicative timing of operation (monthly)											
			J	F	M	A	M	J	J	A	S	O	N	D
Inspect guys, stakes and ties regularly for firmness and support. Adjust ties twice annually. (*) Remove ties and supporting posts once trees have established. Straighten leaning trees or refirm trees as required (Objectives T1 and T2)	12	1 to 5			*						*			
Maintain loose mulch around base of trees (Objectives T1 and T2)	2	1 to 5												
Inspect irrigation bags. Ensure bags are regularly topped up with water, checking every two weeks during the growing season. Check bag is in good condition and not effecting tree health or tree growth. Reposition or replace bag if required. (Objectives T1 , T2 and T3)	26	1 to 5												
New trees to be watered as required to ensure successful establishment of trees. Programmed fortnightly during the growing season and more during prolonged periods of drought. Watering not to take place if rootball already looks saturated. Target 50-75L of water per tree, per visit. (Objectives T1 and T2)	As required	1 to 5												
Carry out hand weeding to vegetation within 0.5m of base of tree (Objectives T1 and T2)	Monthly	1 to 5												

Fertilise with organic matter and aerate any compaction around trees (Objectives T1 and T2)	2	1 to 3												
Replacement of failed tree planting in the next available planting season (Objective T1)	As required	1 to 3												
Formative pruning to maintain health and vigour. Annual crown lifting, pruning, thinning and shaping of trees as required. (Objective T2)	1	1 to 5 as required												
Undertake safety inspections by an arboriculturalist to check for damage and diseases. Carry out remedial works as required. Also check roots are not causing damage to roads, pavements or buildings. (Objective T3)		Year 3 and 5.												

3. Existing Scrub Vegetation

Objective
SV1 Management of existing scrub to provide cover and nesting habitat for mammals and birds.
SV2 Allow scrub plants to flower and fruit to provide a food source for invertebrates, birds and mammals.
SV3 Maintain as scrub habitat and avoid succession to woodland.

Operation/Prescription	Frequency per annum	Years applicable or frequency over the 5-year plan period	Indicative timing of operation (monthly)											
			J	F	M	A	M	J	J	A	S	O	N	D
Cut, flail/ strim vegetation to a height of 40-60cm (SV1, SV2 and SV3). Once every 3 years	1	1-4												

3.0 Appendix

- SJ.LKF.01_Llwyn Knottia Farm- Planting GA
- SJ.LKF.02_Llwyn Knottia Farm- Planting Schedules and Outline Maintenance specification.


1no Quercus robur
Existing oak tree
Existing scrub vegetation
1no Betula pubescens
Mixed species native hedgerow planting (75lm)
1no Crataegus monogyna
1no Acer campestre
Woodchip Store
Storage Containers
Storage Containers
Equine
Llwyn Knottia Farm
Existing Trees and Vegetation to be Retained and Managed
Existing Trees (Neighbouring Field)
Existing Scrub Vegetation
Proposed Trees, Hedges and Vegetation
Trees (Proposed) (See Annotation and Schedules)
Mixed Species Native Hedging (See Annotation and Schedules)
For Planning
Do not Scale from Drawing
Scale Bar
N
0m 5 10 15 20m 25 30 35 40m
Project: Llwyn Knottia Farm, Container Storage
Drawing Title: Soft Landscape General Layout Plan
Scale: A3: 1/500 A1: 1/250
Date: 14/03/2025
Status: Planning
Drawn: ES
Checked: TS
Drawing Number: SJ.LKF.01
Revision: -
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Planting Schedules

Tree Planting Schedule

Name	Form	Age	Girth (cm)	Height (cm)	Clear stem (cm)	Root condition	Breaks	Nr of Trees
Acer campestre	Standard (Selected)	3x	10-12	250-300	175-200	RB	3	1
Betula pubescens	Standard (Selected)	3x	10-12	250-300	175-200	RB	3	1
Crataegus monogyna	Standard (Selected)	3x	10-12	250-300	175-200	RB	3	1
Quercus robur	Standard (Selected)	3x	10-12	250-300	175-200	RB	3	1
Total								4

Hedgerow Planting Schedule

Plant name	Common Name	Height (cm)	Root Condition	Number of times Transplant (min)	Form	Length (lin.m)	Total Plants/ lin.m	Total No. Plants
Hedgerows (Double staggered row. 5 per m)								
Acer campestre	*Field Maple*	60-80	B	1+1	Branched	7	5	35
Corylus avellana	*Hazel*	60-80	B	1+1	Branched	10	5	50
Crataegus monogyna	*Hawthorn*	60-80	B	1+1	Transplant	53	5	265
Rosa canina	*Dog Rose*	40-50	B	1+0 or 1/1	Branched	2.5	5	13
Viburnum opulus	*Gulder Rose*	60-80	B	1+1	Branched	2.5	5	13
Total						75		375
Planting Species as Recommended by Consultant Ecologist.								
	Hedging plants to be evenly spaced throughout the hedgerow in groups of 3 and 5							
	Hedging plants to be evenly spaced and planted at approximately 1 plant every 3 metres of hedging							

Planting Specification

Trees and shrubs planted shall comply with BS.3936 (Specification of Nursery Stock) and shall be planted in accordance with BS.4428 (General Landscape Operations) and BS8545:2014 ' Trees from nursery to dependence in the Landscape'. New trees to have a UK Plant Passport.

Avoid use of herbicide and pesticides in planting preparation and maintenance regimes.

Contractor to familiarize themselves with location of underground services using routing plans, CAT scans and onsite survey prior to planting and excavations.

Bare root and root-balled stock to be planted in the dormant season.
All planting stock to be clearly labelled on delivery with the full botanical name. Plant stock to be approved prior to delivery to site and planting and trees be set out by Landscape Architect. All topsoil to be of good quality AS-DUG in accordance with BS 3882.2015. Ensure 350mm depths of topsoil for hedgerows over free draining subsoil.

Organic soil improvement compost to be dug into all planting areas and used at 1cubic m per 10m2. All planting beds to be mulched in 75mm depth medium grade bark mulch immediately after planting. Allow 50mm clearance of mulch around stem. Any imported soil, growing medium or compost shall be free of peat.

If very wet or very dry conditions are found in proposed planting areas the landscape architect shall review planting locations and/or species.

Tree pits
Ensure tree pits are free draining prior to planting.

Tree Pit to be dug 400mm larger than rootball in any direction. Side and base of pit to be forked over to aid drainage help root establishment. Tree pit to be back-filled with a mix of:

- *1 part 'Melcourt topgrow' (or similar)* peat free, tree planting compost;
- Mycorrhizal Fungi; and
- 3 parts good quality, as dug sub and top soils to similar profiles as existing (Preferably use the excavated soil if of suitable quality and free draining) .

Minimum 1m2 area surrounding tree to be level (cut into bank on sloping ground). Medium grade bark mulch to be placed at the base of each trees to a depth of 75mm. Mulch to be maintained at size and depth for at least two growing seasons.

Hedgerow Planting and Protection
Do not plant hedgerow whips within 0.5m of proposed standard trees. 1no. 600 x 50mmTreebio Biodegradable Spiral Guard and cane to be used per plant. (Products by Greentech or similar). 1m wide area beneath new hedgerow be mulched to 75mm depth with medium grade bark mulch immediately after planting. Hedgerows to be inspected regularly, maintain depth of mulch and guards for at least 2 planting seasons. Provide additional fencing as required to protect from livestock.

Tree Stakes
Trees to be single staked. Stakes to be 75mm diameter tanalised softwood and pointed at one end. Top of stake to be positioned 300mm under first branch and fixed to tree with 2no. suitable Hessian or 25mm rubber ties and spacers. Stakes to be positioned firmly in ground, at time of planting and on the side of prevailing winds. Tree ties to be checked twice a year and adjusted to ensure they are supporting the tree but not impeding growth. Stake to remain in place until trees have a strong upright form. If ties are adjusted regularly the stake can remain in place until it rots off.

Tree Irrigation
Tree irrigation system to be provided to all trees. Trees to be watered during the first three growing seasons. Watering to be based on weather and ground conditions. As a general guide, 75L of water to be provided to each tree every 2 weeks.

Alternatively use 75L Treegator Watering Bag by Green Tech to provide slow release of water to new planted trees. Ensure bags are regularly topped up with water, checking every two weeks. Also check bag is in good condition and not effecting tree health or tree growth. Reposition or replace bag if required.

Project:
Llwyn Knottia Farm, Container Storage

Drawing Title:
Planting Schedules and Outline Specification for Planting.

Scale:	Date:	
NTS	14/03/2025	
Status:	Drawn:	Checked:
Planning	ES	TS
Drawing Number:	Revision:	
SJ.LKF.02	-	

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