
Landscape Management Plan

Thames Valley Science Park Primary Infrastructure

498048

Landscape Management Plan

Thames Valley Science Park Primary Infrastructure



Project: Thames Valley Science Park Primary Infrastructure

Client: University of Reading

Project Number: 498048

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Status: PLANNING

Document Checking:

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1. Introduction

- 1.1 This document has been produced as part of the supporting information for the Spine Road infrastructure works. The document sets out the overarching management and maintenance operations associated with the landscape proposals and various types of planting to be implemented. This includes new tree planting, scrub/hedgerow planting and associated seeding to verges, and planting associated with drainage features.
- 1.2 The report identifies the day to day operations, together with strategic actions required to cover a 30 year period from implementation.

The site

- 1.3 The spine road will form part of the wider strategic infrastructure on the site and will provide a connection and access to various plots.
- 1.4 The site includes a number of existing trees and hedgerows which have been retained where possible and incorporated into the overall landscape proposals, with the management of these captured in this report.
- 1.5 The landscape proposals for the spine road are shown on the planning drawings LA048 – LA057 which relate to the soft landscape elements, the hard landscape aspects are covered on Abley Letchford Partnership Ltd (ALP) drawings, although high level maintenance associated with footways is covered in the schedules below.
- 1.6 The proposals also include a number of Sustainable drainage features (SuDS) which in some instances combine planting with engineered basins. Where this is the case this document considers the landscape operations with any drainage functions or similar maintenance requirements to be provided by ALP. A summary of the key elements to be provided as part of the works is set out below:
- Create vehicular access through the associated highways works
 - Provide pedestrian routes with associated crossing points as part of the wider footpath/cycleway infrastructure
 - Provide new SuDS features as part of the surface water drainage strategy
 - Retain and manage existing hedgerows and trees
 - Provide new tree planting, areas of native species understorey planting, hedges and areas of seeding
 - Provide new fencing and gates to define boundaries and control access

1.7 The key aims and objectives of the landscape scheme is to:

- Provide an attractive landscape setting to the proposed spine road and the adjacent development plots through the provision of generous verge areas;
- Provide a range new habitat opportunities through the planting approach and use of native species;
- Use landscape to incorporate SuDS features as part of the surface water management strategy with plant species suited to seasonal inundation and the anticipated ground conditions;
- Management of existing trees and hedges to ensure the long term health and contribution of these elements.

2. Habitat management

2.1 In addition to those operations focussed on the maintaining the appearance and overall health of the planting there are further operations focussed on maximising the biodiversity of the site, this includes the following:

- Timing of trimming or cutting back operations to avoid nesting birds, with hedgerow cutting to take place in January or February
- Implementing a rotational approach to trimming hedges on a 2-3 year basis to maintain cover for wildlife
- Maintaining species rich verges and areas of seeding to encourage the development of a diverse sward

Regular maintenance operations

2.2 These are tasks to be undertaken as part of the day to day activities on the site to ensure it is safe, useable and an attractive landscape feature, these have been separated into the various landscape elements.

2.3 Maintenance tasks will be carried out by suitably qualified operatives of the appointed landscape contractor for the initial 12 months post completion with the longer term contractor arrangements to be confirmed with the University of Reading.

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Existing trees and vegetation

Operation	Actions required	Timing/frequency
Inspect for damage or defects, particularly after high winds	Ensure trees have not been damaged or become dangerous. Cut back damaged branches as required and remove dangerous trees. (Obtain consents or notify LPA as appropriate)	Annual check and as required due to weather conditions
Inspect planting for evidence of pests or disease	As part of regular site walkover check trees for presence of diseases or invasive pests. If identified treat as appropriate and if required provide notification to relevant body/organisation	As part of each visit
Carry out pruning operations	Pruning to remove damaged or diseased limbs, to promote new growth and maintain overall form, as required	Annually as appropriate to the species and outside of bird nesting season

New trees and vegetation

Operation	Actions required	Timing/frequency
Check guards and any tree ties/guys	Ensure adequate room for growth and adjust ties as required to prevent damage to the tree	As part of each visit
Checks after high winds to ensure trees have not been damaged or dislodged	Cut back damaged branches as required and re-firm as necessary adjusting stakes and guys	As required due to weather conditions
Mulching	Ensure mulch surrounds are maintained at the specified depth to control weed growth	As part of each visit

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Selective pruning	Carry out formative pruning as required, to maintain desired shape and health, of new trees	Annually as appropriate to the species
Pest and disease control	As part of regular site walkover check trees for presence of diseases or invasive pests. If identified treat as appropriate and if required provide notification to relevant body/organisation	As part of regular visits
Irrigation inlets	Check inlets are free from debris and not blocked	As part of regular visits
Soil aeration	Cultivate ground as required to relieve compaction or to address any hollows.	Every 6 months
Fertilizer application	Apply suitable slow release fertilizer to new trees and planting in accordance with supplier's guidelines	Spring application in years 1-3 post completion
Replacement planting	Remove any dead plants and replace with new to original specification.	Annually during planting season

3

New hedge planting

Operation	Actions required	Timing/frequency
Formative pruning	Prune new plants to maintain a balanced structure and shape and to control growth/height as required	Annually as appropriate to species and outside of bird nesting season
Thinning of shrub planting	Once established, remove/lift plants as required to ensure adequate space for healthy specimens to develop, re-plant on site as appropriate	Annually during winter when plants are dormant and outside of bird nesting season

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Weed control,	Cut back/remove weeds through the use of appropriate mechanical tools or hand weeding.	Monthly outside of growing season Fortnightly during growing season
Mulching	Maintain specified level of mulch around the base of new plants to restrict weed growth	As part of regular visits
Litter collection	Collect all litter from around or on new planting beds and remove from site	As part of regular visits
Soil aeration	Cultivate ground as required to relieve compaction or to address any hollows.	Every 6 months
Fertilizer application	Apply suitable slow release fertilizer to new trees and planting in accordance with supplier's guidelines	Spring application in years 1-3 post completion
Replacement planting	Remove any dead plants and replace with new to original specification.	Annually during planting season

Grass and species rich areas

Operation	Actions required	Timing/frequency
New areas of seeding.	To be maintained in accordance with the seed supplier's recommendations.	Operations vary, refer to schedule
Litter collection	Collect litter and remove from site	As part of regular visits

SuDS features

Operation	Actions required	Timing/frequency
Litter collection	Collect litter and remove from site	As part of regular visits

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Prune/cut back vegetation as required	Grass to be cut as part of the site wide mowing operations and as appropriate to the mix and intended sward composition	As required/annually
Control/remove any invasive species as required	Any self-sown invasive species are to cut back/removed	As required/annually

Appendix 1.0

Annual Management and Maintenance Schedule

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Annual Landscape Maintenance Matrix – Soft Landscape														
		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Tree Planting	Scheduled inspection	1	1	1	1	1	1	1	1	1	1	1	1	12
	Soil inspection around newly planted trees	1	1	1	1	1	1	1	1	1	1	1	1	12
	Assessment of young tree health/ pests and diseases						1							1
	Litter picking and remove litter/ debris	1	1	1	1	2	2	2	2	1	1	1	1	16
	Scheduled pruning and limb removal	1												1
	Fertilizer application to trees			1										1
	Autumn leaf removal										1	1		2
	Watering of young trees	As required during periods of low or no rainfall or for 7 days												
	Invasive weed removal/ control	As required												
	Tree replacement	As required												
		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Hedges	Scheduled inspection	1	1	1	1	2	2	2	2	1	1	1	1	12
	Remove litter/ debris	1	1	1	1	2	2	2	2	1	1	1	1	16
	Trimming (on 2-3 year rotation)	1	1											2
	Mulch/ compost application				1									1
	Watering during periods of low rainfall (first 2 years)	As required during periods of low or no rainfall for 7 days												
	Invasive weed control	As required												
	Plant replacement	As required												

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Annual Landscape Maintenance Matrix – Soft Landscape														
		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Thicket mix planting	Scheduled inspection	1	1	1	1	1	1	1	1	1	1	1	1	12
	Pruning where necessary	1	1											2
	Remove litter/ debris	1	1	1	1	2	2	2	2	1	1	1	1	16
	Mulch/ compost application			1										1
	Watering during periods of low rainfall (first 2 years)	As required during periods or not rainfall for 7 days												
	Invasive weed removal/ control	As required												
	Plant replacement	As required												

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		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Mown verges	Cut grass*				2	4	4	4	4	4	2			24
	Trim edges				2	4	4	4	4	4	2			24
	Scarifying											1		1
	Aeration and sand dressing											1		1
	Re-sow bare patches	As required												
	Remove pernicious weeds	As required												
	Irrigation during extensive dry periods	As required												

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		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	
Species rich grass areas	Cut grass*							1		1				24	
	Trim edges							1		1				2	
	Re-sow bare patches	As required													
	Remove pernicious weeds	As required													
	Irrigation during extensive dry periods	As required													

Note: During the first year, to ensure a diverse sward structure is maintained and the area does not become dominated by grasses or any particular species, management will occur. This will involve strimming or mowing the grassland on a monthly basis to a height of 75-80mm. After Year 1 the grass will be cut twice a year, during mid-summer (after flowering in July) and again in September. Cutting must be done by mowing to around 40-75mm. After mowing the hay should be left on the surface for 1-7 days to allow seed dispersal. The arisings must then be formed to ensure that the wildflowers can grow and also to prevent the encroachment of scrub.

Appendix 2.0

Thirty-Year Management and Maintenance Schedule

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Item of work	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 9	YR 10	YR 15	YRS 20-30
General												
Tidy up areas removing 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 and refirm / replace as required including removing weed growth from within. Consider removal at years 4 to 5.	✓	4x	4x	4x	2x	✓	✓	✓	✓	✓	✓	✓
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.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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Item of work	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 9	YR 10	YR 15	YRS 20-30
Semi mature trees may need corrective surgery to be carried out by an Arboricultural Association approved contractor in accordance with BS3998: Recommendations for Tree Work										✓	✓	✓
Thicket / Native Hedge Planted Areas												
Keep areas clear of weed growth by herbicide treatment as appropriate from mid-April to late September.	4x	4x	4x	4x	2x	2x	2x	Once	Once	Once	Once	Once
Thicket planting to be managed to ultimately achieve a tree canopy with understorey. 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			1/3 of thicket plants		1/3 of thicket plants	1/3 of thicket plants	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. Cut back on a rotation basis.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Prune native hedges on a 2-3 rotational basis to maintain cover. Cut sides, tops and ends to straight and true lines, avoid flail cutting.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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Item of work	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 9	YR 10	YR 15	YRS 20-30
Mown 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: Up to 18no. cuts per year	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shape grass edge as necessary with half-moon spade. 2 times per year.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application of fertilizer and selective weed killer as appropriate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Species Rich Grass Areas												
Grass cutting with edge trim (where required). Frequency of grass cutting to be mid-summer (after flowering) in July and September (40-75mm height)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shape grass edge as necessary with half-moon spade. 2 times per year.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application of selective weed killer as appropriate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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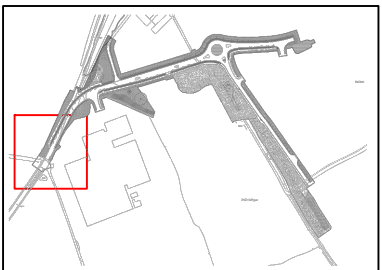
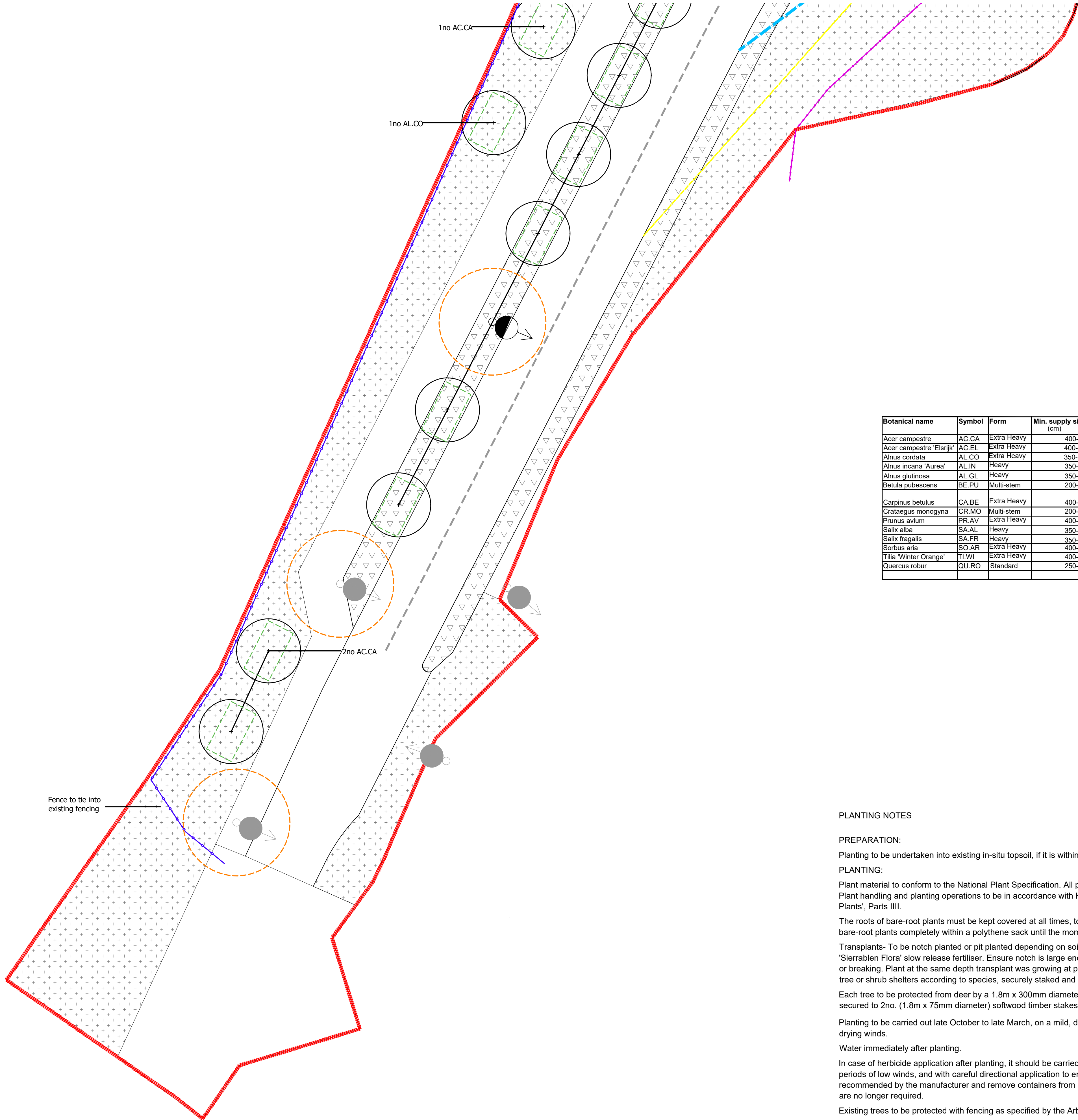
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SuDS Features												
SuDS features to be maintained to provide suitable surface water drainage requirements and meet original design objectives. Where necessary aggressive or pernicious weeds or woody plants shall be removed.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Appendix 3.0

Planting Plans and Schedules



Botanical name	Symbol	Form	Min. supply size (cm)	Clear stem (cm)	Birth (cm)	Transplanted	Root condition	Total no.	Notes
Acer campestre	AC.CA	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	All new trees to
Acer campestre 'Elsrijk'	AC.EL	Extra Heavy	400-450	min.200	14-16	3x	AirPot grown	13	have allowance for
Alnus cordata	AL.CO	Extra Heavy	350-400	min.200	14-16	3x		28	watering bag,
Alnus incana 'Aurea'	AL.IN	Heavy	350-400	min.200	12-14	3x		1	double stake or
Alnus glutinosa	AL.GL	Heavy	350-400	min.200	12-14	3x		7	underground
Betula pubescens	BE.PU	Multi-stem	200-250			3x	Container	6	guying and
Carpinus betulus	CA.BE	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	2	irrigation pipe.
Crataegus monogyna	CR.MO	Multi-stem	200-250			3x	AirPot grown	2	
Prunus avium	PR.AV	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	
Salix alba	SA.AL	Heavy	350-400	min.200	12-14	3x	AirPot grown	1	
Salix fragalis	SA.FR	Heavy	350-400	min.200	12-14	3x		1	
Sorbus aria	SO.AR	Extra Heavy	400-450	min.200	14-16	3x		2	
Tilia 'Winter Orange'	TI.WI	Extra Heavy	400-450	min.200	14-16	3x		7	
Quercus robur	QU.RO	Standard	250-300	min.200	8-10	3x		1	
Total trees								81	

PL01 - Marginal Planting mix							
Species	Specification			Planting			
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier		
PL02 - Pond Edge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier	25%	
AQUATIC							
Butomus umbellatus	482		basket			10%	
Dipsacus fulurionum	482		2L			10%	
Hydrocharis morsus	80		2L			5%	
Lythrum salicaria	440		2L			10%	
Maryanthes trifoliata	440		2L			10%	
Nymphaea alba	50		basket			5%	
Vicia sepium			2L			10%	
GRASSES							
Carex x Elytroides	37		basket			5%	
Typha latifolia	27		2L			10%	
PL03 - Wetland Meadow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM8					as specified by the supplier		
PL04 - Buffer Scrub mix							
Botanical name	No.	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
SCRUB MIX							
Cornus sanguinea	356		bare root	40-60	2/m2	30%	Scrub mix to be planted at 1.5m
Crataegus monogyna	149		bare root	40-60	1/m2	25%	centres on a grid in a single species
Cystus scoparius	59		bare root	40-60	2/m2	5%	group of 3-5
Euonymus europaeus	59		bare root	40-60	1/m2	10%	
Ilex aquifolium	119		2L	40-60	2/m2	10%	
Ligustrum vulgare	59		bare root	40-60	2/m2	5%	
Rosa canina	30		bare root	40-60	1/m2	5%	
Salix caprea	119		bare root	40-60	2/m2	10%	
PL05 - Native Hedgerow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
HEDGEROW MIX							
Acer campestre	92		bare root		7 plants per m	15%	Hedgerow to be planted in a double
Corylus avellana	123		bare root			20%	staggered row, rows, 250mm apart,
Crataegus monogyna	123		bare root			20%	at 300mm centres
Euonymus europaeus	31		bare root			5%	
Ilex aquifolium	62		2L			10%	
Prunus spinosa	31		bare root			5%	
Rosa canina	31		bare root			5%	
Quercus robur	31		bare root			5%	
Viburnum lantana	92		bare root			15%	
PL06 - Road Verge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Germinal A18 road verge and embankments					as specified by the supplier		
PL07 - Species Rich Lawn mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Festuca rubra commutata					as specified by the supplier		
Festuca rubra trichophylla					as specified by the supplier		
Festuca ovina							
Lolium perenne							
Phleum bertolonii							
Poa pratensis							
PL08 - Road Edge Wildflower mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM3							

- LEGEND

Site Boundary

SOFTWORKS

Existing tree with RPA

Proposed tree - single stem

Proposed tree - multi-stem

Existing trees to be retained

Category A - High quality

Category B - Moderate quality

Category C - Low quality

PL01 - Marginal Planting mix (Emorsgate EP1 sown at 4g/m²)

PL02 - Pond Edge mix (Emorsgate EP1 sown at 4g/m² & Aquatic mix)

PL03 - Wetland Meadow mix (Emorsgate EM8 sown at 4g/m²)

PL04 - Buffer Scrub mix

PL05 - Native Hedgerow mix

PL06 - Road Verge mix

PL07 - Species Rich Lawn mix, sown at 10g/m²

PL08 - Road Edge Wildflower mix (Emorsgate EM3 - sown at 4g/m²)

Area to be left to allow natural succession. Any concrete road present to be broken up and removed from site

Existing hedge to be retained

Proposed lighting columns Refer to Engineer's drawings

Proposed V mesh security fencing (British Museum) and gate to match existing

Proposed post and 3 rail timber fence

Proposed filter drain

Indicative rootzone area shown as 26m² to provide a volume of 12cu/m

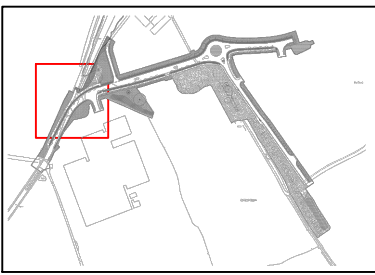
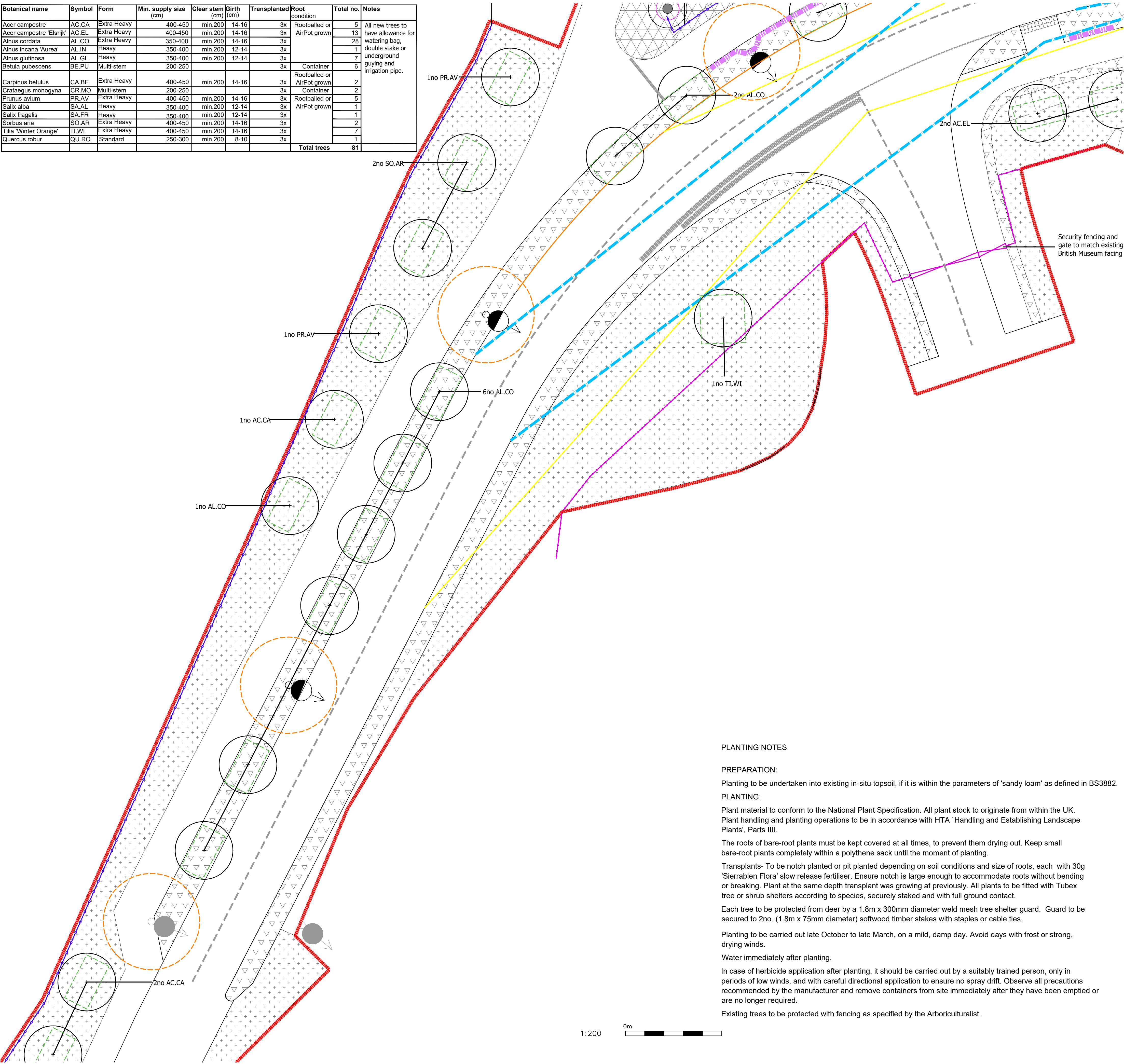
2.4 x 70m Junction Visibility (see ALP drawing A392-IV1-101 Rev P7)

70m Pedestrian Visibility (see ALP drawing A392-IV1-101 Rev P7)

5M Tree Exclusion Zone (see ALP drawing A392-IV1-1401 REV P6)

1. No Dimensions are to be scaled from this drawing. All dimensions to be checked on site. Area measurements for indicative purposes only. 2. Contractors must verify all figured dimensions at site before commencing any work or making any Shop drawings. 3. Contractors must verify all figured dimensions at site before commencing any work or making any Shop drawings. 4. Reproduced from the Ordnance Survey Map with the permission of the Controller of H.M. Stationary Office Crown copyright license number 100024244 Savills (UK) Limited. Published for the purposes of identification only and although believed to be correct accuracy is not guaranteed.			
No.	Revisions	By	Date
A	Draft issue for planning	EM	02.10.23
B	Issue for planning	EM	19.10.23
C	Updates to key	AIL	10.11.23
D	Updates to tree locations	AIL	29.02.24
E	Updates to tree locations and table	AIL	06.03.24
F	Issue to incorporate planning officers comments	EM	17.04.24
G	Tree pit extents and filter drains added	RA	11.10.24
savills URBAN DESIGN STUDIO			
Client			
University of Reading			
Job			
Thames Valley Science Park Primary Infrastructure			
Drawing Title			
NHM Access Road: Landscape Planting Plan - Sheet 1			
Job No. 498048		Date 02.10.2023	
Drawn By EM		Checked By RB	
Scale 1:200@A1		Drawing No. LA048	Rev. G

Botanical name	Symbol	Form	Min. supply size (cm)	Clear stem (cm)	Girth (cm)	Transplanted	Root condition	Total no.	Notes
Acer campestre	AC.CA	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	All new trees to have allowance for watering bag, double stake or underground guying and irrigation pipe.
Acer campestre 'Elsrijk'	AC.EL	Extra Heavy	400-450	min.200	14-16	3x	AirPot grown	13	
Alnus cordata	AL.CO	Extra Heavy	350-400	min.200	14-16	3x		28	
Alnus incana 'Aurea'	AL.IN	Heavy	350-400	min.200	12-14	3x		1	
Alnus glutinosa	AL.GL	Heavy	350-400	min.200	12-14	3x		7	
Betula pubescens	BE.PU	Multi-stem	200-250			3x	Container	6	
Carpinus betulus	CA.BE	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	2	
Crataegus monogyna	CR.MO	Multi-stem	200-250			3x	Container	2	
Prunus avium	PR.AV	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	
Salix alba	SA.AL	Heavy	350-400	min.200	12-14	3x	AirPot grown	1	
Salix fragalis	SA.FR	Heavy	350-400	min.200	12-14	3x		1	
Sorbus aria	SO.AR	Extra Heavy	400-450	min.200	14-16	3x		2	
Tilia 'Winter Orange'	TI.WI	Extra Heavy	400-450	min.200	14-16	3x		7	
Quercus robur	QU.RO	Standard	250-300	min.200	8-10	3x		1	
Total trees								81	



PL01 - Marginal Planting mix							
Species		Specification			Planting		
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier		
PL02 - Pond Edge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier	25%	
AQUATIC							
Butomus umbellatus	482		basket			10%	
Dipsacus fulurion	482		2L			10%	
Hydrocharis morsus	80		2L			5%	
Viburnum salicaria	440		2L			10%	
Manyanthes trifoliata	440		2L			10%	
Nymphaea alba	50		basket			5%	
Vicia sepium			2L			10%	
GRASSES							
Carex x Elytroides	37		basket			5%	
Typha latifolia	27		2L			10%	
PL03 - Wetland Meadow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM8					as specified by the supplier		
PL04 - Buffer Scrub mix							
Botanical name	No.	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
SCRUB MIX							
Cornus sanguinea	356		bare root	40-60	2/m2	30%	Scrub mix to be planted at 1.5m centres on a grid in a single species group of 3-5
Crataegus monogyna	149		bare root	40-60	1/m2	25%	
Cystus scoparius	59		bare root	40-60	2/m2	5%	
Euonymus europaeus	59		bare root	40-60	1/m2	10%	
Ilex aquifolium	119		2L	40-60	2/m2	10%	
Ligustrum vulgare	59		bare root	40-60	2/m2	5%	
Rosa canina	30		bare root	40-60	1/m2	5%	
Salix caprea	119		bare root	40-60	2/m2	10%	
PL05 - Native Hedgerow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
HEDGEROW MIX							
Acer campestre	92		bare root		7 plants per m	15%	Hedgerow to be planted in a double staggered row, rows, 250mm apart, at 300mm centres
Corylus avellana	123		bare root			20%	
Crataegus monogyna	123		bare root			20%	
Euonymus europaeus	31		bare root			5%	
Ilex aquifolium	92		2L			10%	
Prunus spinosa	31		bare root			5%	
Rosa canina	31		bare root			5%	
Quercus robur	31		bare root			5%	
Viburnum lantana	92		bare root			15%	
PL06 - Road Verge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Germinal A18 road verge and embankments					as specified by the supplier		
PL07 - Species Rich Lawn mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Festuca rubra commutata					as specified by the supplier	as specified by the supplier	
Festuca rubra trichophylla							
Festuca ovina							
Lolium perenne							
Phleum bertolonii							
Poa pratensis							
PL08 - Road Edge Wildflower mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM3							

LEGEND

Site Boundary

SOFTWORKS

Existing tree with RPA

Proposed tree - single stem

Proposed tree - multi-stem

Existing trees to be retained

Category A - High quality

Category B - Moderate quality

Category C - Low quality

PL01 - Marginal Planting mix (Emorsgate EP1 sown at 4g/m²)

PL02 - Pond Edge mix (Emorsgate EP1 sown at 4g/m² & Aquatic mix)

PL03 - Wetland Meadow mix (Emorsgate EM8 sown at 4g/m²)

PL04 - Buffer Scrub mix

PL05 - Native Hedgerow mix

PL06 - Road Verge mix

PL07 - Species Rich Lawn mix, sown at 10g/m²

PL08 - Road Edge Wildflower mix (Emorsgate EM3 - sown at 4g/m²)

Area to be left to allow natural succession. Any concrete road present to be broken up and removed from site

Existing hedge to be retained

Proposed lighting columns Refer to Engineer's drawings

Proposed V mesh security fencing (British Museum) and gate to match existing

Proposed post and 3 rail timber fence

Proposed filter drain

Indicative rootzone area shown as 26m² to provide a volume of 12cu/m

2.4 x 70m Junction Visibility (see ALP drawing A392-IV1-101 Rev P7)

70m Pedestrian Visibility (see ALP drawing A392-IV1-101 Rev P7)

5M Tree Exclusion Zone (see ALP drawing A392-IV1-1401 REV P6)

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No.	Revisions	By	Date
A	Draft issue for planning	EM	02.10.23
B	Issue for planning	EM	19.10.23
C	Updates to key	AIL	10.11.23
D	Updates to tree locations	AIL	29.02.24
E	Updates to tree locations and table	AIL	06.03.24
F	Issue to incorporate planning officers comments	EM	17.04.24
G	Tree pit extents and filter drains added	RA	11.10.24



URBAN DESIGN STUDIO

Client		By		Date
University of Reading		EM		02.10.23
Job		AIL		19.10.23
Thames Valley Science Park Primary Infrastructure		AIL		10.11.23
Drawing Title		AIL		29.02.24
NHM Access Road: Landscape Planting Plan - Sheet 2		AIL		06.03.24
Job No. 498048		EM		17.04.24
Date 02.10.2023		RA		11.10.24
Drawn By		Checked By		
EM		RB		
Scale 1:200@A1		Drawing No. LA049		Rev. G

PLANTING NOTES

PREPARATION:

Planting to be undertaken into existing in-situ topsoil, if it is within the parameters of 'sandy loam'.

PLANTING:

Plant material to conform to the National Plant Specification. All plant stock to originate from within the UK. Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants', Parts IIII.

The roots of bare-root plants must be kept covered at all times, to prevent them drying out. Keep small bare-root plants completely within a polythene sack until the moment of planting.

Transplants- To be notch planted or pit planted depending on soil conditions and size of roots, each with 30g 'Sierrablen Flora' slow release fertiliser. Ensure notch is large enough to accommodate roots without bending or breaking. Plant at the same depth transplant was growing at previously. All plants to be fitted with Tubex tree or shrub shelters according to species, securely staked and with full ground contact.

Each tree to be protected from deer by a 1.8m x 300mm diameter weld mesh tree shelter guard. Guard to be secured to 2no. (1.8m x 75mm diameter) softwood timber stakes with staples or cable ties.

Planting to be carried out late October to late March, on a mild, damp day. Avoid days with frost or strong, drying winds.

Water immediately after planting.

In case of herbicide application after planting, it should be carried out by a suitably trained person, only in periods of low winds, and with careful directional application to ensure no spray drift. Observe all precautions recommended by the manufacturer and remove containers from site immediately they have been emptied or are no longer required.

Existing trees to be protected with a protection barrier as specified by the Arboriculturalist.

Botanical name	Symbol	Form	Min. supply size (cm)	Clear stem (cm)	Birth (cm)	Transplanted	Root condition	Total no.	Notes
Acer campestre	AC.CA	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	All new trees to have allowance for watering bag, double stake or underground guying and irrigation pipe.
Acer campestre 'Elsrijk'	AC.EL	Extra Heavy	400-450	min.200	14-16	3x	AirPot grown	13	
Alnus cordata	AL.CO	Extra Heavy	350-400	min.200	14-16	3x		28	
Alnus incana 'Aurea'	AL.IN	Heavy	350-400	min.200	12-14	3x		1	
Alnus glutinosa	AL.GL	Heavy	350-400	min.200	12-14	3x		7	
Betula pubescens	BE.PU	Multi-stem	200-250			3x	Container	6	
Carpinus betulus	CA.BE	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	2	
Crataegus monogyna	CR.MO	Multi-stem	200-250			3x	Container	2	
Prunus avium	PR.AV	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	
Salix alba	SA.AL	Heavy	350-400	min.200	12-14	3x	AirPot grown	1	
Salix fragilis	SA.FR	Heavy	350-400	min.200	12-14	3x		2	
Sorbus aria	SO.AR	Extra Heavy	400-450	min.200	14-16	3x		7	
Tilia 'Winter Orange'	TI.WI	Extra Heavy	400-450	min.200	14-16	3x		1	
Quercus robur	QU.RO	Standard	250-300	min.200	8-10	3x			
Total trees								81	

PL01 - Marginal Planting mix								
Species		Specification			Planting			
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Emorsgate EP1					as specified by the supplier	25%		
PL02 - Pond Edge mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Emorsgate EP1					as specified by the supplier	25%		
AQUATIC								
Butomus umbellatus	482		basket			10%		
Dipsacus fullorum	482		2L			10%		
Hydrocharis morsus	80		2L			5%		
Lythrum salicaria	440		2L			10%		
Menyanthes trifoliata	440		2L			10%		
Nymphaea alba	50		basket			5%		
Vicia sepium			2L			10%		
GRASSES								
Carex x Elytroides	37		basket			5%		
Typha latifolia	27		2L			10%		
PL03 - Wetland Meadow mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Emorsgate EM8					as specified by the supplier			
PL04 - Buffer Scrub mix								
Botanical name	No.	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
SCRUB MIX								
Cornus sanguinea	356		bare root	40-60	2m2	30%	Scrub mix to be planted at 1.5m centres on a grid in a single species group of 3-5	
Crataegus monogyna	149		bare root	40-60	1m2	25%		
Cytisus scoparius	59		bare root	40-60	2m2	5%		
Euonymus europaeus	59		bare root	40-60	1m2	10%		
Ilex aquifolium	119		2L	40-60	2m2	10%		
Ligustrum vulgare	59		bare root	40-60	2m2	5%		
Rosa canina	30		bare root	40-60	1m2	5%		
Salix caprea	119		bare root	40-60	2m2	10%		
PL05 - Native Hedgerow mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
HEDGEROW MIX								
Acer campestre	92		bare root		7 plants per m	15%	Hedgerow to be planted in a double staggered row, rows, 250mm apart, at 300mm centres	
Corylus avellana	123		bare root			20%		
Crataegus monogyna	123		bare root			20%		
Euonymus europaeus	31		bare root			5%		
Ilex aquifolium	62		2L			10%		
Prunus spinosa	31		bare root			5%		
Rosa canina	31		bare root			5%		
Quercus robur	31		bare root			5%		
Viburnum lantana	92		bare root			15%		
PL06 - Road Verge mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Germinal A18 road verge and embankments					as specified by the supplier			
PL07 - Species Rich Lawn mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Festuca rubra commutata					as specified by the supplier	as specified by the supplier		
Festuca rubra trichophylla								
Festuca ovina								
Lolium perenne								
Phleum bertolonii								
Poa pratensis								
PL08 - Road Edge Wildflower mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Emorsgate EM3								

LEGEND

Site Boundary

SOFTWORKS

Existing tree with RPA

Proposed tree - single stem

Proposed tree - multi-stem

Existing trees to be retained

Category A - High quality

Category B - Moderate quality

Category C - Low quality

PL01 - Marginal Planting mix (Emorsgate EP1 sown at 4g/m²)

PL02 - Pond Edge mix (Emorsgate EP1 sown at 4g/m² & Aquatic mix)

PL03 - Wetland Meadow mix (Emorsgate EM8 sown at 4g/m²)

PL04 - Buffer Scrub mix

PL05 - Native Hedgerow mix

PL06 - Road Verge mix

PL07 - Species Rich Lawn mix, sown at 10g/m²

PL08 - Road Edge Wildflower mix (Emorsgate EM3 - sown at 4g/m²)

Area to be left to allow natural succession. Any concrete road present to be broken up and removed from site

Existing hedge to be retained

Proposed lighting columns Refer to Engineer's drawings

Proposed V mesh security fencing (British Museum) and gate to match existing

Proposed post and 3 rail timber fence

Proposed filter drain

Indicative rootzone area shown as 26m² to provide a volume of 12cu/m

2.4 x 70m Junction Visibility (see ALP drawing A392-IV1-101 Rev P7)

70m Pedestrian Visibility (see ALP drawing A392-IV1-101 Rev P7)

5M Tree Exclusion Zone (see ALP drawing A392-IV1-1401 REV P6)

No Dimensions are to be scaled from this drawing. All dimensions to be checked on site. Area measurements for indicative purposes only.

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No. Revisions

By Date

A Draft issue for planning EM 02.10.23

B Issue for planning EM 19.10.23

C Updates to fencing, footways, planting and key AIL 10.11.23

D Updates to tree locations AIL 29.02.24

E Updates to tree locations and table AIL 06.03.24

F Issue to incorporate planning officers comments EM 17.04.24

G Tree pit extents and filter drains added RA 11.10.24



URBAN DESIGN STUDIO

Client

University of Reading

Job

Thames Valley Science Park

Primary Infrastructure

Drawing Title

NHM Access Road:

Landscape Planting Plan - Sheet 3

Job No.

498048

Date

02.10.2023

Drawn By

EM

Checked By

RB

Scale

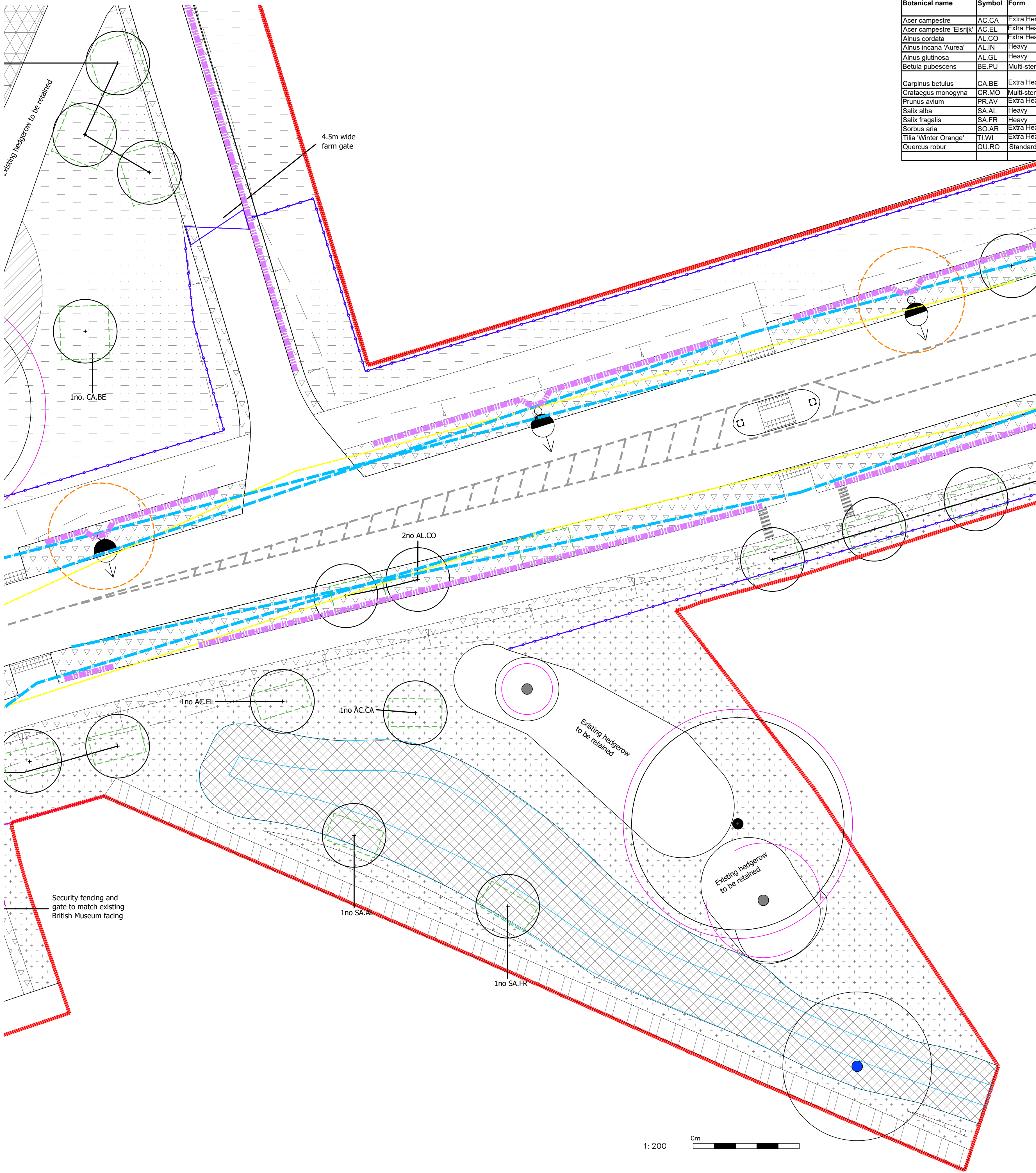
1:200@A1

Drawing No.

LA050

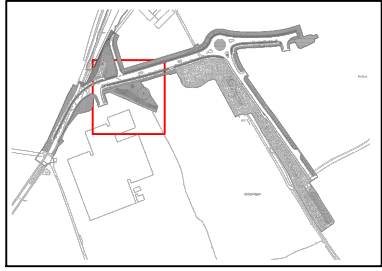
Rev.

G



Botanical name	Symbol	Form	Min. supply size (cm)	Clear stem (cm)	Girth (cm)	Transplanted	Root condition	Total no.	Notes
Acer campestre	AC.CA	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or AirPot grown	5	All new trees to have allowance for watering bag, double stake or underground guying and irrigation pipe.
Acer campestre 'Elsrijk'	AC.EL	Extra Heavy	400-450	min.200	14-16	3x		13	
Alnus cordata	AL.CO	Extra Heavy	350-400	min.200	14-16	3x		28	
Alnus incana 'Aurea'	AL.IN	Heavy	350-400	min.200	12-14	3x		1	
Alnus glutinosa	AL.GL	Heavy	350-400	min.200	12-14	3x		7	
Betula pubescens	BE.PU	Multi-stem	200-250			3x	Container	6	
Carpinus betulus	CA.BE	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or AirPot grown	2	
Crataegus monogyna	CR.MO	Multi-stem	200-250			3x	Container	2	
Prunus avium	PR.AV	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or AirPot grown	5	
Salix alba	SA.AL	Heavy	350-400	min.200	12-14	3x		1	
Salix fragilis	SA.FR	Heavy	350-400	min.200	12-14	3x		1	
Sorbus aria	SO.AR	Extra Heavy	400-450	min.200	14-16	3x		2	
Tilia 'Winter Orange'	TI.WI	Extra Heavy	400-450	min.200	14-16	3x		7	
Quercus robur	QU.RO	Standard	250-300	min.200	8-10	3x		1	
Total trees								81	

PL01 - Marginal Planting mix									
Species			Specification			Planting			
Botanical name	Symbol	Form	Container size	Height(cm)		Density/m2 or as noted	% Mix	Notes	
Emorsgate EP1						as specified by the supplier			
PL02 - Pond Edge mix									
Botanical name	Symbol	Form	Container size	Height(cm)		Density/m2 or as noted	% Mix	Notes	
Emorsgate EP1						as specified by the supplier	25%		
AQUATIC									
Butomus umbellatus	482		basket				10%		
Dipsacus fullonum	482		2L				10%		
Hydrocharis morsus	80		2L				5%		
Lythrum salicaria	440		2L				10%		
Menyanthes trifoliata	440		2L				10%		
Nymphaea alba	50		basket				5%		
Vicia sepium			2L				10%		
GRASSES									
Carex x Elytroides	37		basket				5%		
Typha latifolia	27		2L				10%		
PL03 - Wetland Meadow mix									
Botanical name	Symbol	Form	Container size	Height(cm)		Density/m2 or as noted	% Mix	Notes	
Emorsgate EM8						as specified by the supplier			
PL04 - Buffer Scrub mix									
Botanical name	No.	Form	Container size	Height(cm)		Density/m2 or as noted	% Mix	Notes	
SCRUB MIX									
Cornus sanguinea	356		bare root	40-60		2m2	30%	Scrub mix to be planted at 1.5m centres on a grid in a single species group of 3-5	
Crataegus monogyna	149		bare root	40-60		1m2	25%		
Cytisus scoparius	59		bare root	40-60		2m2	5%		
Eucrymus europaeus	59		bare root	40-60		1m2	10%		
Ilex aquifolium	119		2L	40-60		2m2	10%		
Ligustrum vulgare	59		bare root	40-60		2m2	5%		
Rosa canina	30		bare root	40-60		1m2	5%		
Salix caprea	119		bare root	40-60		2m2	10%		
PL05 - Native Hedgerow mix									
Botanical name	Symbol	Form	Container size	Height(cm)		Density/m2 or as noted	% Mix	Notes	
HEDGEROW MIX									
Acer campestre	92		bare root			7 plants per m	15%	Hedgerow to be planted in a double staggered row, rows, 250mm apart, at 300mm centres	
Corylus avellana	123		bare root				20%		
Crataegus monogyna	123		bare root				20%		
Eucrymus europaeus	31		bare root				5%		
Ilex aquifolium	62		2L				10%		
Prunus spinosa	31		bare root				5%		
Rosa canina	31		bare root				5%		
Quercus robur	31		bare root				5%		
Viburnum lantana	92		bare root				15%		
PL06 - Road Verge mix									
Botanical name	Symbol	Form	Container size	Height(cm)		Density/m2 or as noted	% Mix	Notes	
Germinal A18 road verge and embankments						as specified by the supplier			
PL07 - Species Rich Lawn mix									
Botanical name	Symbol	Form	Container size	Height(cm)		Density/m2 or as noted	% Mix	Notes	
Festuca rubra commutata						as specified by the supplier	as specified by the supplier		
Festuca rubra trichophylla									
Festuca ovina									
Lolium perenne									
Phleum bertolonii									
Poa pratensis									
PL08 - Road Edge Wildflower mix									
Botanical name	Symbol	Form	Container size	Height(cm)		Density/m2 or as noted	% Mix	Notes	
Emorsgate EM3									



PLANTING NOTES

PREPARATION:

Planting to be undertaken into existing in-situ topsoil, if it is within the parameters of 'sandy loam' as defined in BS3882.

PLANTING:

Plant material to conform to the National Plant Specification. All plant stock to originate from within the UK. Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants', Parts IIII.

The roots of bare-root plants must be kept covered at all times, to prevent them drying out. Keep small bare-root plants completely within a polythene sack until the moment of planting.

Transplants- To be notch planted or pit planted depending on soil conditions and size of roots, each with 30g 'Sierrablen Flora' slow release fertiliser. Ensure notch is large enough to accommodate roots without bending or breaking. Plant at the same depth transplant was growing at previously. All plants to be fitted with Tubex tree or shrub shelters according to species, securely staked and with full ground contact.

Each tree to be protected from deer by a 1.8m x 300mm diameter weld mesh tree shelter guard. Guard to be secured to 2no. (1.8m x 75mm diameter) softwood timber stake with staples or cable ties.

Planting to be carried out late October to late March, on a mild, damp day. Avoid days with frost or strong, drying winds.

Water immediately after planting.

In case of herbicide application after planting, it should be carried out by a suitably trained person, only in periods of low winds, and with careful directional application to ensure no spray drift. Observe all precautions recommended by the manufacturer and remove containers from site immediately after they have been emptied or are no longer required.

Existing trees to be protected with fencing as specified by the Arboriculturalist.

LEGEND

Site Boundary

SOFTWORKS

Existing tree with RPA

Proposed tree - single stem

Proposed tree - multi-stem

Existing trees to be retained

Category A - High quality

Category B - Moderate quality

Category C - Low quality

PL01 - Marginal Planting mix (Emorsgate EP1 sown at 4g/m²)

PL02 - Pond Edge mix (Emorsgate EP1 sown at 4g/m² & Aquatic mix)

PL03 - Wetland Meadow mix (Emorsgate EM8 sown at 4g/m²)

PL04 - Buffer Scrub mix

PL05 - Native Hedgerow mix

PL06 - Road Verge mix

PL07 - Species Rich Lawn mix, sown at 10g/m²

PL08 - Road Edge Wildflower mix (Emorsgate EM3 - sown at 4g/m²)

Area to be left to allow natural succession. Any concrete road present to be broken up and removed from site

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Proposed lighting columns Refer to Engineer's drawings

Proposed V mesh security fencing (British Museum) and gate to match existing

Proposed post and 3 rail timber fence

Proposed filter drain

Indicative rootzone area shown as 26m² to provide a volume of 12cu/m

2.4 x 70m Junction Visibility (see ALP drawing A392-IV1-101 Rev P7)

70m Pedestrian Visibility (see ALP drawing A392-IV1-101 Rev P7)

5M Tree Exclusion Zone (see ALP drawing A392-IV1-1401 REV P6)

- No Dimensions are to be scaled from this drawing. All dimensions to be checked on site. Area measurements for indicative purposes only.
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No.	Revisions	By	Date
A	Draft issue for planning	EM	02.10.23
B	Issue for planning	EM	19.10.23
C	Updates to fencing, footways, planting and key	AJL	10.11.23
D	Updates to tree locations and table	AJL	06.03.24
E	Issue to incorporate planning officers comments	EM	17.04.24
F	Tree pit extents and filter drains added	RA	11.10.24



URBAN DESIGN STUDIO

Client			
University of Reading			
Job			
Thames Valley Science Park Primary Infrastructure			
Drawing Title			
NHM Access Road: Landscape Planting Plan - Sheet 4			
Job No.		Date	
498048		02.10.2023	
Drawn By		Checked By	
EM		RB	
Scale		Drawing No.	Rev.
1:200@A1		 N	F
		LA051	

PLANTING NOTES

PREPARATION:

Planting to be undertaken into existing in-situ topsoil, if it is within the parameters of 'sandy loam' as defined in BS3882.

PLANTING:

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The roots of bare-root plants must be kept covered at all times, to prevent them drying out. Keep small bare-root plants completely within a polythene sack until the moment of planting.

Transplants- To be notch planted or pit planted depending on soil conditions and size of roots, each with 30g 'Sierrablen Flora' slow release fertiliser. Ensure notch is large enough to accommodate roots without bending or breaking. Plant at the same depth transplant was growing at previously. All plants to be fitted with Tubex tree or shrub shelters according to species, securely staked and with full ground contact.

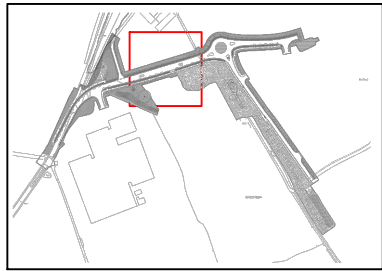
Each tree to be protected from deer by a 1.8m x 300mm diameter weld mesh tree shelter guard. Guard to be secured to 2no. (1.8m x 75mm diameter) softwood timber stakes with staples or cable ties.

Planting to be carried out late October to late March, on a mild, damp day. Avoid days with frost or strong, drying winds.

Water immediately after planting.

In case of herbicide application after planting, it should be carried out by a suitably trained person, only in periods of low winds, and with careful directional application to ensure no spray drift. Observe all precautions recommended by the manufacturer and remove containers from site immediately after they have been emptied or are no longer required.

Existing trees to be protected with fencing as specified by the Arboriculturalist.



Botanical name	Symbol	Form	Min. supply size (cm)	Clear stem (cm)	Girth (cm)	Transplanted	Root condition	Total no.	Notes
Acer campestre	AC.CA	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	All new trees to have allowance for watering bag, double stake or underground guying and irrigation pipe.
Acer campestre 'Elsrijk'	AC.EL	Extra Heavy	400-450	min.200	14-16	3x	AirPot grown	13	
Alnus cordata	AL.CO	Extra Heavy	350-400	min.200	14-16	3x		28	
Alnus incana 'Aurea'	AL.IN	Heavy	350-400	min.200	12-14	3x		1	
Alnus glutinosa	AL.GL	Heavy	350-400	min.200	12-14	3x		7	
Betula pubescens	BE.PU	Multi-stem	200-250			3x	Container	6	
Carpinus betulus	CA.BE	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	2	
Crataegus monogyna	CR.MO	Multi-stem	200-250			3x	Container	2	
Prunus avium	PR.AV	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	
Salix alba	SA.AL	Heavy	350-400	min.200	12-14	3x	AirPot grown	1	
Salix fragilis	SA.FR	Heavy	350-400	min.200	12-14	3x		1	
Sorbus aria	SO.AR	Extra Heavy	400-450	min.200	14-16	3x		2	
Tilia 'Winter Orange'	TI.WI	Extra Heavy	400-450	min.200	14-16	3x		7	
Quercus robur	QU.RO	Standard	250-300	min.200	8-10	3x		1	
Total trees								81	

PL01 - Marginal Planting mix								
Species		Specification			Planting			
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Emorsgate EP1					as specified by the supplier	25%		
PL02 - Pond Edge mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Emorsgate EP1					as specified by the supplier	25%		
AQUATIC								
Butomus umbellatus	482		basket			10%		
Dipsacus fullonum	482		2L			10%		
Hydrocharis morsus	80		2L			5%		
Lythrum salicaria	440		2L			10%		
Menyanthes trifoliata	440		2L			10%		
Nymphaea alba	50		basket			5%		
Vicia sepium			2L			10%		
GRASSES								
Carex x Elytroides	37		basket			5%		
Typha latifolia	27		2L			10%		
PL03 - Wetland Meadow mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Emorsgate EM8					as specified by the supplier			
PL04 - Buffer Scrub mix								
Botanical name	No.	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
SCRUB MIX								
Cornus sanguinea	356		bare root	40-60	2m2	30%	Scrub mix to be planted at 1.5m centres on a grid in a single species group of 3-5	
Crataegus monogyna	149		bare root	40-60	1m2	25%		
Cytus scoparius	59		bare root	40-60	2m2	5%		
Euonymus europaeus	59		bare root	40-60	1m2	10%		
Ilex aquifolium	119		2L	40-60	2m2	10%		
Ligustrum vulgare	59		bare root	40-60	2m2	5%		
Rosa canina	30		bare root	40-60	1m2	5%		
Salix caprea	119		bare root	40-60	2m2	10%		
PL05 - Native Hedgerow mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
HEDGEROW MIX								
Acer campestre	92		bare root		7 plants per m	15%	Hedgerow to be planted in a double staggered row, rows, 250mm apart, at 300mm centres	
Corylus avellana	123		bare root			20%		
Crataegus monogyna	123		bare root			20%		
Euonymus europaeus	31		bare root			5%		
Ilex aquifolium	62		2L			10%		
Prunus spinosa	31		bare root			5%		
Rosa canina	31		bare root			5%		
Quercus robur	31		bare root			5%		
Viburnum lantana	92		bare root		15%			
PL06 - Road Verge mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Germinal A18 road verge and embankments					as specified by the supplier			
PL07 - Species Rich Lawn mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Festuca rubra commutata					as specified by the supplier	as specified by the supplier		
Festuca rubra trichophylla								
Festuca ovina								
Lolium perenne								
Phleum bertolonii								
Poa pratensis								
PL08 - Road Edge Wildflower mix								
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 of as noted	% Mix	Notes	
Emorsgate EM3								

LEGEND

Site Boundary

SOFTWORKS

Existing tree with RPA

Proposed tree - single stem

Proposed tree - multi-stem

Existing trees to be retained

Category A - High quality

Category B - Moderate quality

Category C - Low quality

PL01 - Marginal Planting mix (Emorsgate EP1 sown at 4g/m²)

PL02 - Pond Edge mix (Emorsgate EP1 sown at 4g/m² & Aquatic mix)

PL03 - Wetland Meadow mix (Emorsgate EM8 sown at 4g/m²)

PL04 - Buffer Scrub mix

PL05 - Native Hedgerow mix

PL06 - Road Verge mix

PL07 - Species Rich Lawn mix, sown at 10g/m²

PL08 - Road Edge Wildflower mix (Emorsgate EM3 - sown at 4g/m²)

Area to be left to allow natural succession. Any concrete road present to be broken up and removed from site

Existing hedge to be retained

Proposed lighting columns Refer to Engineer's drawings

Proposed V mesh security fencing (British Museum) and gate to match existing

Proposed post and 3 rail timber fence

Proposed filter drain

Indicative rootzone area shown as 26m² to provide a volume of 12cu/m

2.4 x 70m Junction Visibility (see ALP drawing A392-IV1-101 Rev P7)

70m Pedestrian Visibility (see ALP drawing A392-IV1-101 Rev P7)

5M Tree Exclusion Zone (see ALP drawing A392-IV1-1401 REV P6)

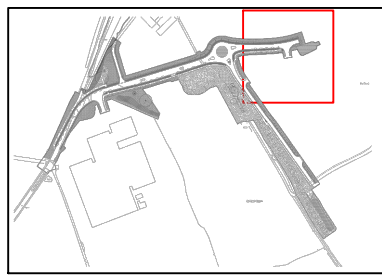
- No Dimensions are to be scaled from this drawing. All dimensions to be checked on site. Area measurements for indicative purposes only.
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No.	Revisions	By	Date
A	Draft issue for planning	EM	02.10.23
B	Issue for planning	EM	19.10.23
C	Updates to fencing, footways, planting and key	AIL	10.11.23
D	Updates to tree locations and table	AIL	06.03.24
E	Updates to tree locations	AIL	07.03.24
F	Issue to incorporate planning officers comments	EM	17.04.24
G	Tree pit extents and filter drains added	RA	11.10.24



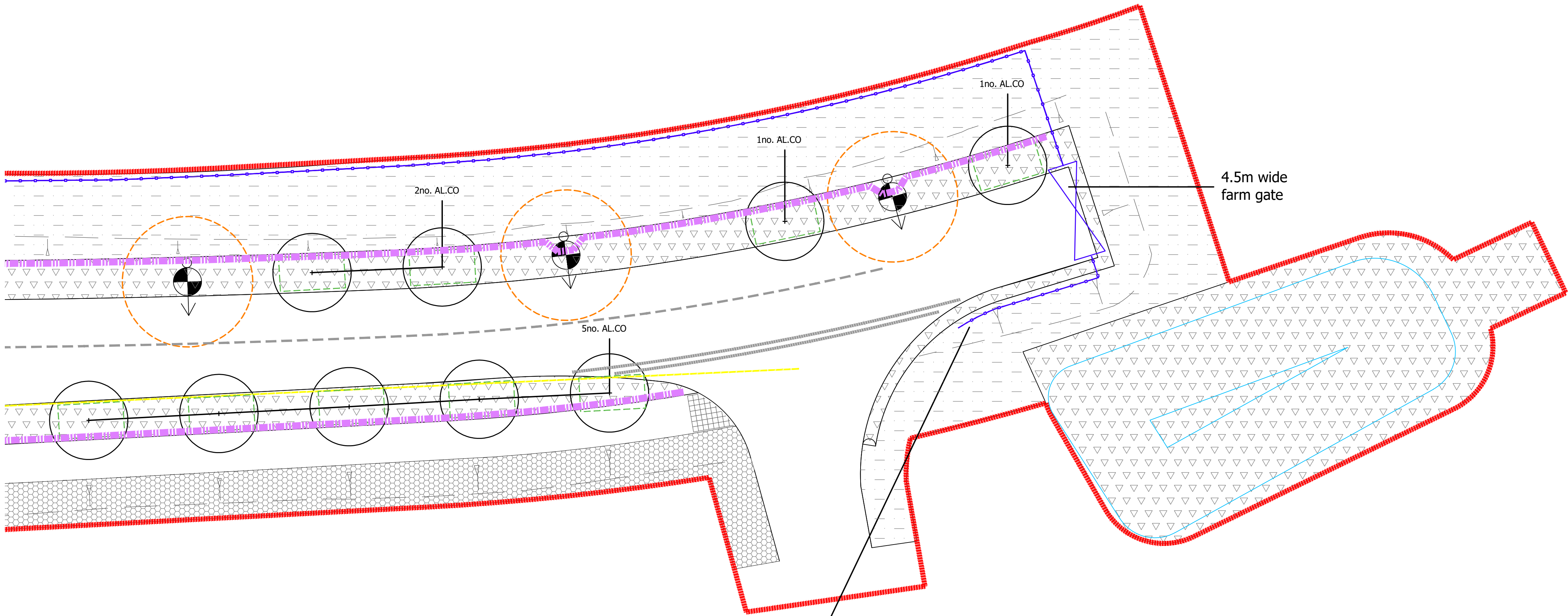
URBAN DESIGN STUDIO

Client			
University of Reading			
Job			
Thames Valley Science Park Primary Infrastructure			
Drawing Title			
NHM Access Road: Landscape Planting Plan - Sheet 5			
Job No. 498048		Date 02.10.2023	
Drawn By EM		Checked By RB	
Scale 1:200@A1		Drawing No. LA052	Rev. G



Botanical name	Symbol	Form	Min. supply size (cm)	Clear stem (cm)	Girth (cm)	Transplanted	Root condition	Total no.	Notes
Acer campestre	AC.CA	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	All new trees to have allowance for watering bag, double stake or underground guying and irrigation pipe.
Acer campestre 'Elsrijk'	AC.EL	Extra Heavy	400-450	min.200	14-16	3x	AirPot grown	13	
Alnus cordata	AL.CO	Extra Heavy	350-400	min.200	14-16	3x		28	
Alnus incana 'Aurea'	AL.IN	Heavy	350-400	min.200	12-14	3x		1	
Alnus glutinosa	AL.GL	Heavy	350-400	min.200	12-14	3x		7	
Betula pubescens	BE.PU	Multi-stem	200-250			3x	Container	6	
Carpinus betulus	CA.BE	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	2	
Crataegus monogyna	CR.MO	Multi-stem	200-250			3x	Container	2	
Prunus avium	PR.AV	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	
Salix alba	SA.AL	Heavy	350-400	min.200	12-14	3x	AirPot grown	1	
Salix fragilis	SA.FR	Heavy	350-400	min.200	12-14	3x		2	
Sorbus aria	SO.AR	Extra Heavy	400-450	min.200	14-16	3x		7	
Tilia 'Winter Orange'	TI.WI	Extra Heavy	400-450	min.200	14-16	3x		1	
Quercus robur	QU.RO	Standard	250-300	min.200	8-10	3x		1	
Total trees								81	

PL01 - Marginal Planting mix							
Species		Specification			Planting		
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier		
PL02 - Pond Edge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier	25%	
AQUATIC							
Butomus umbellatus	482		basket			10%	
Dipsacus fulurionum	482		2L			10%	
Hydrocharis morsus	80		2L			5%	
Lythrum salicaria	440		2L			10%	
Manyanthes trifoliata	440		2L			10%	
Nymphaea alba	50		basket			5%	
Vicia sepium			2L			10%	
GRASSES							
Carex x Elytroides	37		basket			5%	
Typha latifolia	27		2L			10%	
PL03 - Wetland Meadow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM8					as specified by the supplier		
PL04 - Buffer Scrub mix							
Botanical name	No.	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
SCRUB MIX							
Cornus sanguinea	356		bare root	40-60	2/m2	30%	Scrub mix to be planted at 1.5m centres on a grid in a single species group of 3-5
Crataegus monogyna	149		bare root	40-60	1/m2	25%	
Cystus scoparius	59		bare root	40-60	2/m2	5%	
Euonymus europaeus	59		bare root	40-60	1/m2	10%	
Ilex aquifolium	119		2L	40-60	2/m2	10%	
Ligustrum vulgare	59		bare root	40-60	2/m2	5%	
Rosa canina	30		bare root	40-60	1/m2	5%	
Salix caprea	119		bare root	40-60	2/m2	10%	
PL05 - Native Hedgerow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
HEDGEROW MIX							
Acer campestre	92		bare root		7 plants per m	15%	Hedgerow to be planted in a double staggered row, rows, 250mm apart, at 300mm centres
Corylus avellana	123		bare root			20%	
Crataegus monogyna	123		bare root			20%	
Euonymus europaeus	31		bare root			5%	
Ilex aquifolium	62		2L			10%	
Prunus spinosa	31		bare root			5%	
Rosa canina	31		bare root			5%	
Quercus robur	31		bare root			5%	
Viburnum lantana	92		bare root			15%	
PL06 - Road Verge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Germinal A18 road verge and embankments					as specified by the supplier		
PL07 - Species Rich Lawn mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Festuca rubra commulata					as specified by the supplier		
Festuca rubra trichophylla					as specified by the supplier		
Festuca ovina							
Lolium perenne							
Phleum bertolonii							
Poa pratensis							
PL08 - Road Edge Wildflower mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM3							



PLANTING NOTES

PREPARATION:

Planting to be undertaken into existing in-situ topsoil, if it is within the parameters of 'sandy loam' as defined in BS3882.

PLANTING:

Plant material to conform to the National Plant Specification. All plant stock to originate from within the UK. Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants', Parts IIII.

The roots of bare-root plants must be kept covered at all times, to prevent them drying out. Keep small bare-root plants completely within a polythene sack until the moment of planting.

Transplants- To be notch planted depending on soil conditions and size of roots, each with 30g 'Sierrablen Flora' slow release fertiliser. Ensure notch is large enough to accommodate roots without bending or breaking. Plant at the same depth transplant was growing at previously. All plants to be fitted with Tubex tree or shrub shelters according to species, securely staked and with full ground contact.

Each tree to be protected from deer by a 1.8m x 300mm diameter weld mesh tree shelter guard. Guard to be secured to 2no. (1.8m x 75mm diameter) softwood timber stakes with staples or cable ties.

Planting to be carried out late October to late March, on a mild, damp day. Avoid days with frost or strong, drying winds.

Water immediately after planting.

In case of herbicide application after planting, it should be carried out by a suitably trained person, only in periods of low winds, and with careful directional application to ensure no spray drift. Observe all precautions recommended by the manufacturer and remove containers from site immediately after they have been emptied or are no longer required.

Existing trees to be protected with fencing as specified by the Arboriculturalist.

LEGEND

Site Boundary

SOFTWORKS

Existing tree with RPA

Proposed tree - single stem

Proposed tree - multi-stem

Existing trees to be retained

Category A - High quality

Category B - Moderate quality

Category C - Low quality

PL01 - Marginal Planting mix (Emorsgate EP1 sown at 4g/m²)

PL02 - Pond Edge mix (Emorsgate EP1 sown at 4g/m² & Aquatic mix)

PL03 - Wetland Meadow mix (Emorsgate EM8 sown at 4g/m²)

PL04 - Buffer Scrub mix

PL05 - Native Hedgerow mix

PL06 - Road Verge mix

PL07 - Species Rich Lawn mix, sown at 10g/m²

PL08 - Road Edge Wildflower mix (Emorsgate EM3 - sown at 4g/m²)

Area to be left to allow natural succession. Any concrete road present to be broken up and removed from site

Existing hedge to be retained

Proposed lighting columns Refer to Engineer's drawings

Proposed V mesh security fencing (British Museum) and gate to match existing

Proposed post and 3 rail timber fence

Proposed filter drain

Indicative rootzone area shown as 26m² to provide a volume of 12cu/m

- No Dimensions are to be scaled from this drawing. All dimensions to be checked on site. Area measurements for indicative purposes only.
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No.	Revisions	By	Date
A	Draft issue for planning	EM	02.10.23
B	Issue for planning	EM	19.10.23
C	Updates to key	AIL	10.11.23
D	Updates to tree locations and table	AIL	06.03.24
E	Issue to incorporate planning officers comments	EM	17.04.24
F	Tree pit extents and filter drains added	RA	11.10.24



URBAN DESIGN STUDIO

Client			
University of Reading			
Job			
Thames Valley Science Park Primary Infrastructure			
Drawing Title			
NHM Access Road: Landscape Planting Plan - Sheet 6			
Job No.		Date	
498048		02.10.2023	
Drawn By		Checked By	
EM		RB	
Scale		Drawing No.	Rev.
1:200@A1		LA053	F

PLANTING NOTES

PREPARATION:

Planting to be undertaken into existing in-situ topsoil, if it is within the parameters of 'sandy loam' as defined in BS3882.

PLANTING:

Plant material to conform to the National Plant Specification. All plant stock to originate from within the UK. Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants', Parts IIII.

The roots of bare-root plants must be kept covered at all times, to prevent them drying out. Keep small bare-root plants completely within a polythene sack until the moment of planting.

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Each tree to be protected from deer by a 1.8m x 300mm diameter weld mesh tree shelter guard. Guard to be secured to 2no. (1.8m x 75mm diameter) softwood timber stakes with staples or cable ties.

Planting to be carried out late October to late March, on a mild, damp day. Avoid days with frost or strong, drying winds.

Water immediately after planting.

In case of herbicide application after planting, it should be carried out by a suitably trained person, only in periods of low winds, and with careful directional application to ensure no spray drift. Observe all precautions recommended by the manufacturer and remove containers from site immediately after they have been emptied or are no longer required.

Existing trees to be protected with fencing as specified by the Arboriculturalist.

Botanical name	Symbol	Form	Min. supply size (cm)	Clear stem (cm)	Girth (cm)	Transplanted	Root condition	Total no.	Notes
Acer campestre	AC.CA	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	All new trees to have allowance for watering bag, double stake or underground guying and irrigation pipe.
Acer campestre 'Elsrijk'	AC.EL	Extra Heavy	400-450	min.200	14-16	3x	AirPot grown	13	
Alnus cordata	AL.CO	Extra Heavy	350-400	min.200	14-16	3x		28	
Alnus incana 'Aurea'	AL.IN	Heavy	350-400	min.200	12-14	3x		1	
Alnus glutinosa	AL.GL	Heavy	350-400	min.200	12-14	3x		7	
Betula pubescens	BE.PU	Multi-stem	200-250			3x	Container	6	
Carpinus betulus	CA.BE	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	2	
Crataegus monogyna	CR.MO	Multi-stem	200-250			3x	Container	2	
Prunus avium	PR.AV	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	
Salix alba	SA.AL	Heavy	350-400	min.200	12-14	3x	AirPot grown	1	
Salix fragalis	SA.FR	Heavy	350-400	min.200	12-14	3x		2	
Sorbus aria	SO.AR	Extra Heavy	400-450	min.200	14-16	3x		1	
Tilia 'Winter Orange'	TI.WI	Extra Heavy	400-450	min.200	14-16	3x		7	
Quercus robur	QU.RO	Standard	250-300	min.200	8-10	3x		1	
Total trees								81	

PL01 - Marginal Planting mix							
Species	Specification			Planting			
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier		
PL02 - Pond Edge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier	25%	
AQUATIC							
Butomus umbellatus	482		basket			10%	
Dipsacus fulurionum	482		2L			10%	
Hydrocharis morsus	80		2L			5%	
Lythrum salicaria	440		2L			10%	
Manyanthes trifoliata	440		2L			10%	
Nymphaea alba	50		basket			5%	
Vicia sepium			2L			10%	
GRASSES							
Carex x Elytroides	37		basket			5%	
Typha latifolia	27		2L			10%	
PL03 - Wetland Meadow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM8					as specified by the supplier		
PL04 - Buffer Scrub mix							
Botanical name	No.	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
SCRUB MIX							
Cornus sanguinea	356		bare root	40-60	2m2	30%	Scrub mix to be planted at 1.5m centres on a grid in a single species group of 3-5
Crataegus monogyna	149		bare root	40-60	1m2	25%	
Cystus scoparius	59		bare root	40-60	2m2	5%	
Euonymus europaeus	59		bare root	40-60	1m2	10%	
Ilex aquifolium	119		2L	40-60	2m2	10%	
Ligustrum vulgare	59		bare root	40-60	2m2	5%	
Rosa canina	30		bare root	40-60	1m2	5%	
Salix caprea	119		bare root	40-60	2m2	10%	
PL05 - Native Hedgerow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
HEDGEROW MIX							
Acer campestre	92		bare root		7 plants per m	15%	Hedgerow to be planted in a double staggered row, rows, 250mm apart, at 300mm centres
Corylus avellana	123		bare root			20%	
Crataegus monogyna	123		bare root			5%	
Euonymus europaeus	31		bare root			10%	
Ilex aquifolium	62		2L			5%	
Prunus spinosa	31		bare root			5%	
Rosa canina	31		bare root			5%	
Quercus robur	31		bare root			15%	
Viburnum lantana	92		bare root				
PL06 - Road Verge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Germinal A18 road verge and embankments					as specified by the supplier		
PL07 - Species Rich Lawn mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Festuca rubra commulata					as specified by the supplier	as specified by the supplier	
Festuca rubra trichophylla							
Festuca ovina							
Lolium perenne							
Phleum bertolonii							
Poa pratensis							
PL08 - Road Edge Wildflower mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM3							

LEGEND

Site Boundary

SOFTWORKS

Existing tree with RPA

Proposed tree - single stem

Proposed tree - multi-stem

Existing trees to be retained

Category A - High quality

Category B - Moderate quality

Category C - Low quality

PL01 - Marginal Planting mix (Emorsgate EP1 sown at 4g/m²)

PL02 - Pond Edge mix (Emorsgate EP1 sown at 4g/m² & Aquatic mix)

PL03 - Wetland Meadow mix (Emorsgate EM8 sown at 4g/m²)

PL04 - Buffer Scrub mix

PL05 - Native Hedgerow mix

PL06 - Road Verge mix

PL07 - Species Rich Lawn mix, sown at 10g/m²

PL08 - Road Edge Wildflower mix (Emorsgate EM3 - sown at 4g/m²)

Area to be left to allow natural succession. Any concrete road present to be broken up and removed from site

Existing hedge to be retained

Proposed lighting columns Refer to Engineer's drawings

Proposed V mesh security fencing (British Museum) and gate to match existing

Proposed post and 3 rail timber fence

Proposed filter drain

Indicative rootzone area shown as 26m² to provide a volume of 12cu/m

2.4 x 70m Junction Visibility (see ALP drawing A392-IV1-101 Rev P7)

70m Pedestrian Visibility (see ALP drawing A392-IV1-101 Rev P7)

5M Tree Exclusion Zone (see ALP drawing A392-IV1-1401 REV P6)

No Dimensions are to be scaled from this drawing. All dimensions to be checked on site. Area measurements for indicative purposes only.

Contractors must verify all figured dimensions at site before commencing any work or making any Shop drawings.

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No. Revisions

By Date

A Draft issue for planning EM 02.10.23

B Issue for planning EM 19.10.23

C Updates to key AIL 10.11.23

D Updates to tree locations and table AIL 06.03.24

E Updates to tree locations AIL 07.03.24

F Issue to incorporate planning officers comments EM 17.04.24

G Tree pit extents and filter drains added RA 11.10.24



Client

University of Reading

Job

Thames Valley Science Park

Primary Infrastructure

Drawing Title

NHM Access Road:

Landscape Planting Plan - Sheet 7

Job No. 498048

Date 02.10.2023

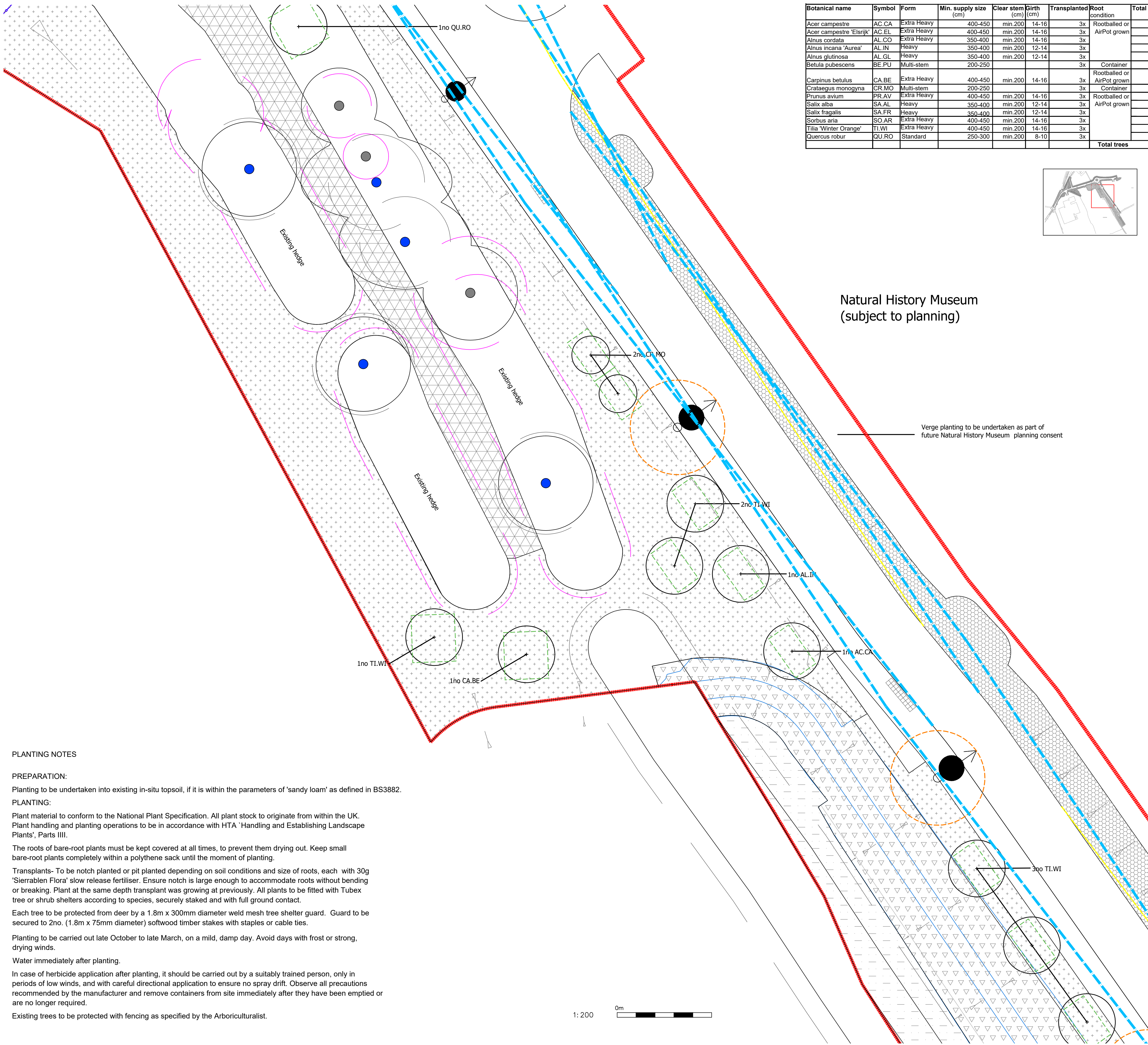
Drawn By EM

Checked By RB

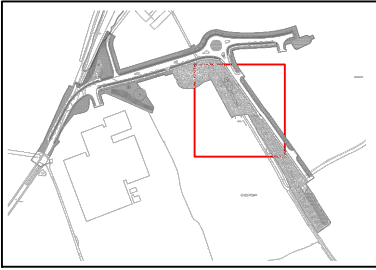
Scale 1:200@A1

Drawing No. LA054

Rev. G



Botanical name	Symbol	Form	Min. supply size (cm)	Clear stem (cm)	Girth (cm)	Transplanted	Root condition	Total no.	Notes
Acer campestre	AC.CA	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	All new trees to have allowance for watering bag, double stake or underground guying and irrigation pipe.
Acer campestre 'Elsrijk'	AC.EL	Extra Heavy	400-450	min.200	14-16	3x	AirPot grown	13	
Alnus cordata	AL.CO	Extra Heavy	350-400	min.200	14-16	3x		28	
Alnus incana 'Aurea'	AL.IN	Heavy	350-400	min.200	12-14	3x		1	
Alnus glutinosa	AL.GL	Heavy	350-400	min.200	12-14	3x		7	
Betula pubescens	BE.PU	Multi-stem	200-250			3x	Container	6	
Carpinus betulus	CA.BE	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	2	
Crataegus monogyna	CR.MO	Multi-stem	200-250			3x	Container	2	
Prunus avium	PR.AV	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	
Salix alba	SA.AL	Heavy	350-400	min.200	12-14	3x	AirPot grown	1	
Salix fragilis	SA.FR	Heavy	350-400	min.200	12-14	3x		1	
Sorbus aria	SO.AR	Extra Heavy	400-450	min.200	14-16	3x		2	
Tilia 'Winter Orange'	TI.WI	Extra Heavy	400-450	min.200	14-16	3x		7	
Quercus robur	QU.RO	Standard	250-300	min.200	8-10	3x		1	
Total trees								81	



Natural History Museum
(subject to planning)

Verge planting to be undertaken as part of future Natural History Museum planning consent

PLANTING NOTES

PREPARATION:
Planting to be undertaken into existing in-situ topsoil, if it is within the parameters of 'sandy loam' as defined in BS3882.

PLANTING:
Plant material to conform to the National Plant Specification. All plant stock to originate from within the UK. Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants', Parts III.

The roots of bare-root plants must be kept covered at all times, to prevent them drying out. Keep small bare-root plants completely within a polythene sack until the moment of planting.

Transplants- To be notch planted or pit planted depending on soil conditions and size of roots, each with 30g 'Sierrablen Flora' slow release fertiliser. Ensure notch is large enough to accommodate roots without bending or breaking. Plant at the same depth transplant was growing at previously. All plants to be fitted with Tubex tree or shrub shelters according to species, securely staked and with full ground contact.

Each tree to be protected from deer by a 1.8m x 300mm diameter weld mesh tree shelter guard. Guard to be secured to 2no. (1.8m x 75mm diameter) softwood timber stakes with staples or cable ties.

Planting to be carried out late October to late March, on a mild, damp day. Avoid days with frost or strong, drying winds.

Water immediately after planting.

In case of herbicide application after planting, it should be carried out by a suitably trained person, only in periods of low winds, and with careful directional application to ensure no spray drift. Observe all precautions recommended by the manufacturer and remove containers from site immediately after they have been emptied or are no longer required.

Existing trees to be protected with fencing as specified by the Arboriculturalist.

PL01 - Marginal Planting mix									
Species			Specification			Planting			
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes		
Emorsgate EP1					as specified by the supplier		25%		
PL02 - Pond Edge mix									
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes		
Emorsgate EP1					as specified by the supplier		25%		
AQUATIC									
Butomus umbellatus	482		basket				10%		
Dipsacus fullonum	482		2L				10%		
Hydrocharis morsus	80		2L				5%		
Lythrum salicaria	440		2L				10%		
Menyanthes trifoliata	440		2L				10%		
Nymphaea alba	50		basket				5%		
Vicia sepium			2L				10%		
GRASSES									
Carex x Elytroides	37		basket				5%		
Typha latifolia	27		2L				10%		
PL03 - Wetland Meadow mix									
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes		
Emorsgate EM8					as specified by the supplier				
PL04 - Buffer Scrub mix									
Botanical name	No.	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes		
SCRUB MIX									
Cornus sanguinea	356		bare root	40-60	2/m2	30%	Scrub mix to be planted at 1.5m centres on a grid in a single species group of 3-5		
Crataegus monogyna	149		bare root	40-60	1/m2	25%			
Cytisus scoparius	59		bare root	40-60	2/m2	5%			
Euonymus europaeus	59		bare root	40-60	1/m2	10%			
Ilex aquifolium	119		2L	40-60	2/m2	10%			
Ligustrum vulgare	59		bare root	40-60	2/m2	5%			
Rosa canina	30		bare root	40-60	1/m2	5%			
Salix caprea	119		bare root	40-60	2/m2	10%			
PL05 - Native Hedgerow mix									
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes		
HEDGEROW MIX									
Acer campestre	92		bare root		7 plants per m	15%	Hedgerow to be planted in a double staggered row, rows, 250mm apart, at 300mm centres		
Corylus avellana	123		bare root			20%			
Crataegus monogyna	123		bare root			20%			
Euonymus europaeus	31		bare root			5%			
Ilex aquifolium	62		2L			10%			
Prunus spinosa	31		bare root			5%			
Rosa canina	31		bare root			5%			
Quercus robur	31		bare root			5%			
Viburnum lantana	92		bare root			15%			
PL06 - Road Verge mix									
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes		
Germinal A18 road verge and embankments					as specified by the supplier				
PL07 - Species Rich Lawn mix									
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes		
Festuca rubra commutata					as specified by the supplier	as specified by the supplier			
Festuca rubra trichophylla									
Festuca ovina									
Lolium perenne									
Phleum bertolonii									
Poa pratensis									
PL08 - Road Edge Wildflower mix									
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes		
Emorsgate EM3									

LEGEND

- Site Boundary
- Existing tree with RPA
- Proposed tree - single stem
- Proposed tree - multi-stem
- Existing trees to be retained
- Category A - High quality
- Category B - Moderate quality
- Category C - Low quality
- PL01 - Marginal Planting mix (Emorsgate EP1 sown at 4g/m²)
- PL02 - Pond Edge mix (Emorsgate EP1 sown at 4g/m² & Aquatic mix)
- PL03 - Wetland Meadow mix (Emorsgate EM8 sown at 4g/m²)
- PL04 - Buffer Scrub mix
- PL05 - Native Hedgerow mix
- PL06 - Road Verge mix
- PL07 - Species Rich Lawn mix, sown at 10g/m²
- PL08 - Road Edge Wildflower mix (Emorsgate EM3 - sown at 4g/m²)
- Area to be left to allow natural succession. Any concrete road present to be broken up and removed from site
- Existing hedge to be retained
- Proposed lighting columns Refer to Engineer's drawings
- Proposed V mesh security fencing (British Museum) and gate to match existing
- Proposed post and 3 rail timber fence
- Proposed filter drain
- Indicative rootzone area shown as 26m² to provide a volume of 12cu/m

2.4 x 70m Junction Visibility (see ALP drawing A392-IV1-101 Rev P7)

70m Pedestrian Visibility (see ALP drawing A392-IV1-101 Rev P7)

5M Tree Exclusion Zone (see ALP drawing A392-IV1-1401 REV P6)

1. No Dimensions are to be scaled from this drawing. All dimensions to be checked on site. Area measurements for indicative purposes only.

2. Contractors must verify all figured dimensions at site before commencing any work or making any Shop drawings.

3. Contractors must verify all figured dimensions at site before commencing any work or making any Shop drawings.

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No.	Revisions	By	Date
A	Draft issue for planning	EM	02.10.23
B	Issue for planning	EM	19.10.23
C	Issue for planning/additional comments	EM	02.11.23
D	Updates to tree locations	AIL	29.02.24
E	Updates to tree locations and table	AIL	06.03.24
F	Issue to incorporate planning officers comments	EM	17.04.24
G	Tree pit extents and filter drains added	RA	11.10.24

URBAN DESIGN STUDIO

Client

University of Reading

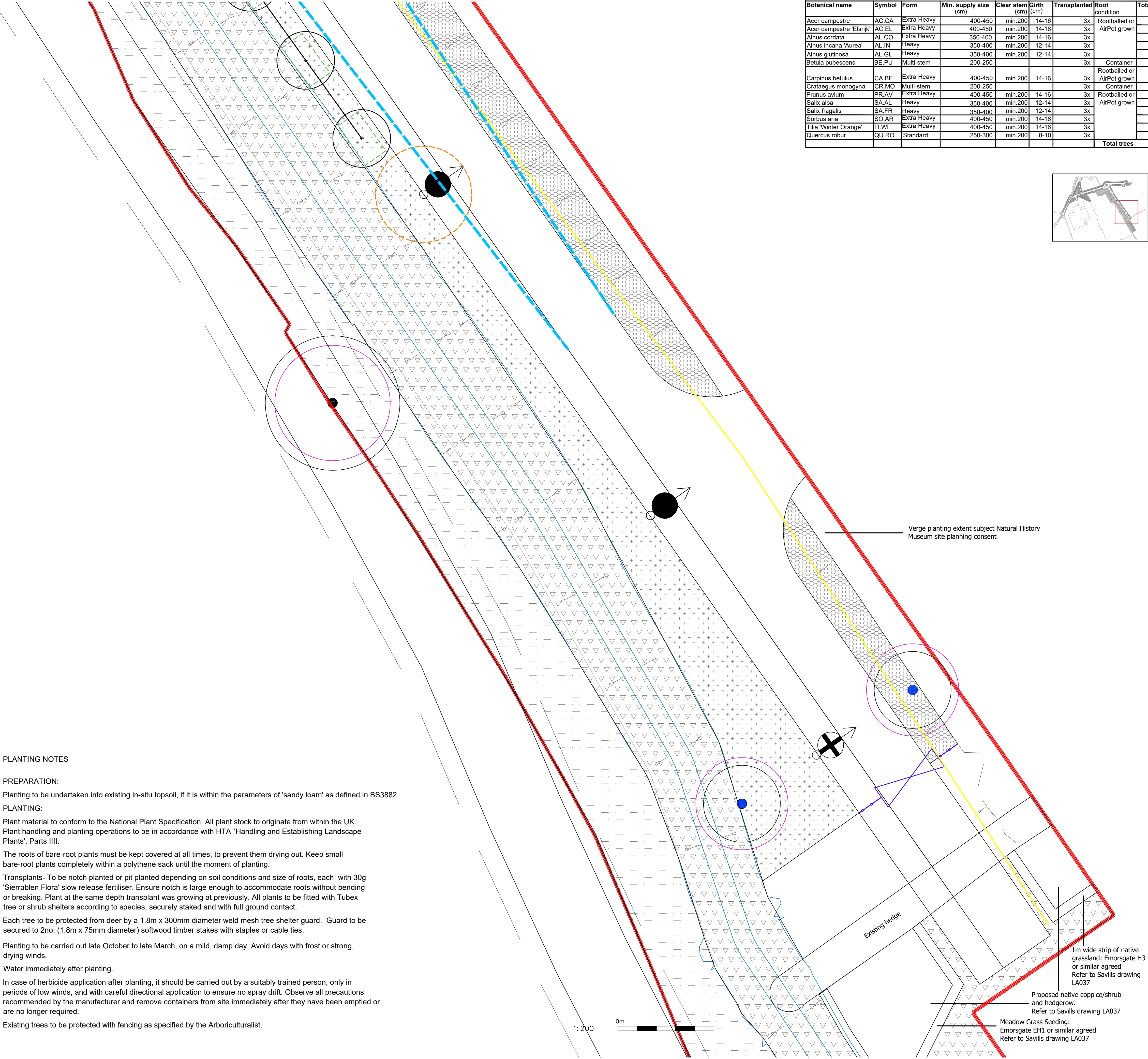
Job

Thames Valley Science Park
Primary Infrastructure

Drawing Title

NHM Access Road:
Landscape Planting Plan - Sheet 8

Job No. 498048	Date 02.10.2023
Drawn By EM	Checked By RB
Scale 1:200@A1	Drawing No. LA055
	Rev. G



Botanical name	Symbol	Form	Min. supply size (cm)	Clear stem (cm)	Girth (cm)	Transplanted	Root condition	Total no.	Notes
Acer campestre	AC.CA	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or AirPot grown	5	All new trees to have allowance for watering bag, double stake or underground guying and irrigation pipe.
Acer campestre 'Elsrijk'	AC.EL	Extra Heavy	400-450	min.200	14-16	3x		13	
Alnus cordata	AL.CO	Extra Heavy	350-400	min.200	14-16	3x		28	
Alnus incana 'Aurea'	AL.IN	Heavy	350-400	min.200	12-14	3x		1	
Alnus glutinosa	AL.GL	Heavy	350-400	min.200	12-14	3x		7	
Betula pubescens	BE.PU	Multi-stem	200-250			3x	Container	6	
Carpinus betulus	CA.BE	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or AirPot grown	2	
Crataegus monogyna	CR.MO	Multi-stem	200-250			3x	Container	2	
Prunus avium	PR.AV	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or AirPot grown	5	
Salix alba	SA.AL	Heavy	350-400	min.200	12-14	3x		1	
Salix fragalis	SA.FR	Heavy	350-400	min.200	12-14	3x		1	
Sorbus aria	SO.AR	Extra Heavy	400-450	min.200	14-16	3x		2	
Tilia 'Winter Orange'	TI.WI	Extra Heavy	400-450	min.200	14-16	3x		7	
Quercus robur	QU.RO	Standard	250-300	min.200	8-10	3x		1	
Total trees								81	

PL01 - Marginal Planting mix							
Species		Specification			Planting		
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier		
PL02 - Pond Edge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier	25%	
AQUATIC							
Butomus umbellatus	482		basket			10%	
Dipsacus fulurionum	482		2L			10%	
Hydrocharis morsus	80		2L			5%	
Lythrum salicaria	440		2L			10%	
Mertensia trifoliata	440		2L			10%	
Nymphaea alba	50		basket			5%	
Vicia sepium			2L			10%	
GRASSES							
Carex x Elytroides	37		basket			5%	
Typha latifolia	27		2L			10%	
PL03 - Wetland Meadow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM8					as specified by the supplier		
PL04 - Buffer Scrub mix							
Botanical name	No.	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
SCRUB MIX							
Cornus sanguinea	356		bare root	40-60	2m2	30%	Scrub mix to be planted at 1.5m centres on a grid in a single species group of 3-5
Crataegus monogyna	149		bare root	40-60	1m2	25%	
Cystus scoparius	59		bare root	40-60	2m2	5%	
Euonymus europaeus	59		bare root	40-60	1m2	10%	
Ilex aquifolium	119		2L	40-60	2m2	10%	
Ligustrum vulgare	59		bare root	40-60	2m2	5%	
Rosa canina	30		bare root	40-60	1m2	5%	
Salix caprea	119		bare root	40-60	2m2	10%	
PL05 - Native Hedgerow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
HEDGEROW MIX							
Acer campestre	92		bare root		7 plants per m	15%	Hedgerow to be planted in a double staggered row, rows, 250mm apart, at 300mm centres
Corylus avellana	123		bare root			20%	
Crataegus monogyna	123		bare root			20%	
Euonymus europaeus	31		bare root			5%	
Ilex aquifolium	62		2L			10%	
Prunus spinosa	31		bare root			5%	
Rosa canina	31		bare root			5%	
Quercus robur	31		bare root			5%	
Viburnum lantana	92		bare root			15%	
PL06 - Road Verge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Germinal A18 road verge and embankments					as specified by the supplier		
PL07 - Species Rich Lawn mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Festuca rubra commutata					as specified by the supplier	as specified by the supplier	
Festuca rubra trichophylla							
Festuca ovina							
Lolium perenne							
Phleum bertolonii							
Poa pratensis							
PL08 - Road Edge Wildflower mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM3							

PLANTING NOTES

PREPARATION:

Planting to be undertaken into existing in-situ topsoil, if it is within the parameters of 'sandy loam' as defined in BS3882.

PLANTING:

Plant material to conform to the National Plant Specification. All plant stock to originate from within the UK. Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants', Parts III.

The roots of bare-root plants must be kept covered at all times, to prevent them drying out. Keep small bare-root plants completely within a polythene sack until the moment of planting.

Transplants- To be notch planted or pit planted depending on soil conditions and size of roots, each with 30g 'Sierrablend Flora' slow release fertiliser. Ensure notch is large enough to accommodate roots without bending or breaking. Plant at the same depth transplant was growing at previously. All plants to be fitted with Tubex tree or shrub shelters according to species, securely staked and with full ground contact.

Each tree to be protected from deer by a 1.8m x 300mm diameter weld mesh tree shelter guard. Guard to be secured to 2no. (1.8m x 75mm diameter) softwood timber stakes with staples or cable ties.

Planting to be carried out late October to late March, on a mild, damp day. Avoid days with frost or strong, drying winds.

Water immediately after planting.

In case of herbicide application after planting, it should be carried out by a suitably trained person, only in periods of low winds, and with careful directional application to ensure no spray drift. Observe all precautions recommended by the manufacturer and remove containers from site immediately after they have been emptied or are no longer required.

Existing trees to be protected with fencing as specified by the Arboriculturalist.

LEGEND

Site Boundary

SOFTWORKS

Existing tree with RPA

Proposed tree - single stem

Proposed tree - multi-stem

Existing trees to be retained

Category A - High quality

Category B - Moderate quality

Category C - Low quality

PL01 - Marginal Planting mix (Emorsgate EP1 sown at 4g/m²)

PL02 - Pond Edge mix (Emorsgate EP1 sown at 4g/m² & Aquatic mix)

PL03 - Wetland Meadow mix (Emorsgate EM8 sown at 4g/m²)

PL04 - Buffer Scrub mix

PL05 - Native Hedgerow mix

PL06 - Road Verge mix

PL07 - Species Rich Lawn mix, sown at 10g/m²

PL08 - Road Edge Wildflower mix (Emorsgate EM3 - sown at 4g/m²)

Area to be left to allow natural succession. Any concrete road present to be broken up and removed from site

Existing hedge to be retained

Proposed lighting columns Refer to Engineer's drawings

Proposed V mesh security fencing (British Museum) and gate to match existing

Proposed post and 3 rail timber fence

Proposed filter drain

Indicative rootzone area shown as 26m² to provide a volume of 12cu/m

2.4 x 70m Junction Visibility (see ALP drawing A392-IV1-101 Rev P7)

70m Pedestrian Visibility (see ALP drawing A392-IV1-101 Rev P7)

5M Tree Exclusion Zone (see ALP drawing A392-IV1-1401 REV P6)

1. No Dimensions are to be scaled from this drawing. All dimensions to be checked on site. Area measurements for indicative purposes only.

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3. Contractors must verify all figured dimensions at site before commencing any work or making any Shop drawings.

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No.	Revisions	By	Date
A	Draft issue for planning	EM	02.10.23
B	Issue for planning	EM	19.10.23
C	Updates to fencing, footways and planting	AIL	10.11.23
D	Updates to tree locations and table	AIL	06.03.24
E	Issue to incorporate planning officers comments	EM	17.04.24
F	Tree pit extents and filter drain added	RA	11.10.24

URBAN DESIGN STUDIO

Client

University of Reading

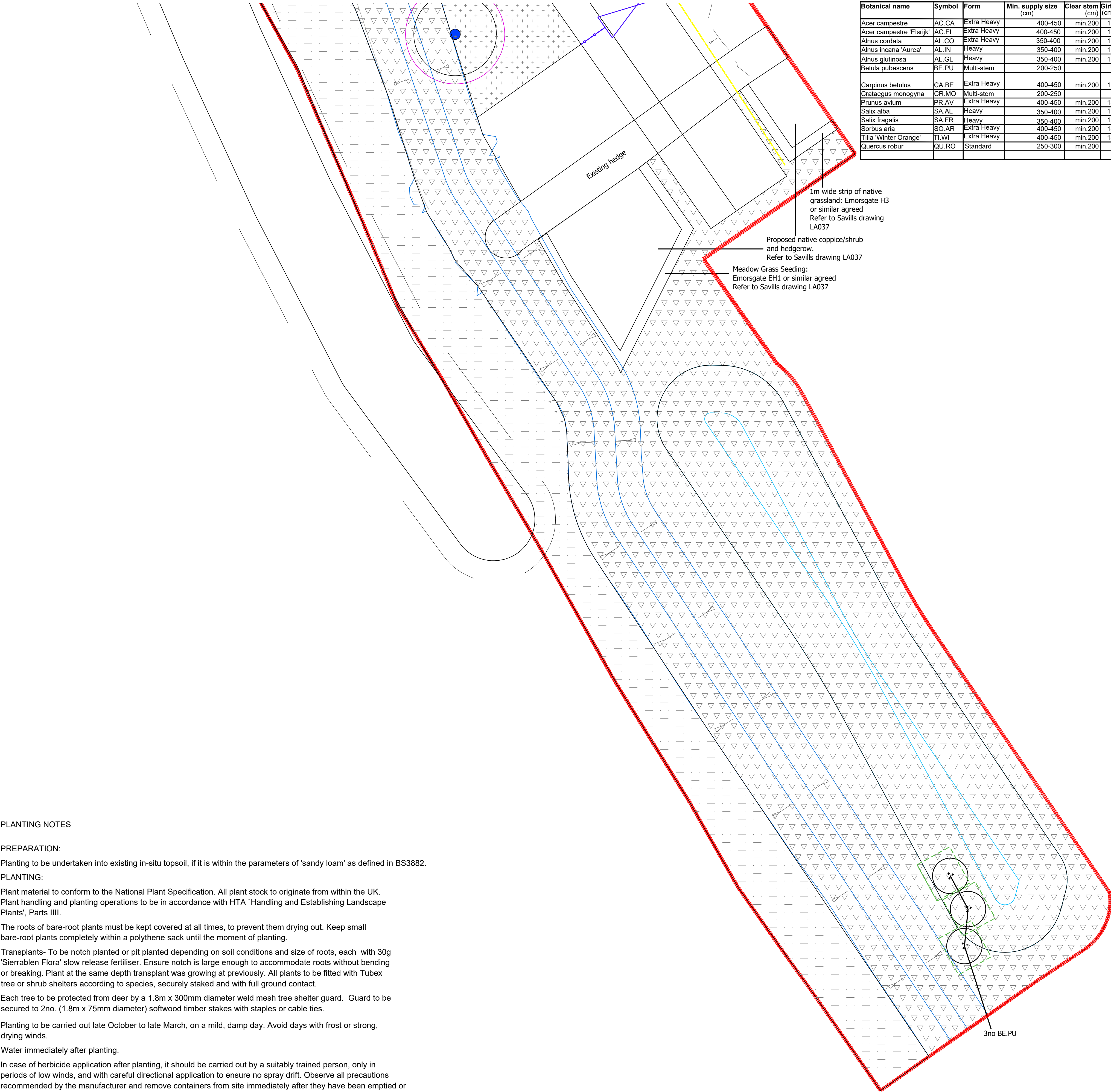
Job

Thames Valley Science Park
Primary Infrastructure

Drawing Title

NHM Access Road:
Landscape Planting Plan - Sheet 9

Job No. 498048	Date 02.10.2023
Drawn By EM	Checked By RB
Scale 1:200@A1	Drawing No. LA056
	Rev. F



PLANTING NOTES

PREPARATION:
Planting to be undertaken into existing in-situ topsoil, if it is within the parameters of 'sandy loam' as defined in BS3882.

PLANTING:
Plant material to conform to the National Plant Specification. All plant stock to originate from within the UK. Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants', Parts IIII.

The roots of bare-root plants must be kept covered at all times, to prevent them drying out. Keep small bare-root plants completely within a polythene sack until the moment of planting.

Transplants- To be notch planted or pit planted depending on soil conditions and size of roots, each with 30g 'Sierrablen Flora' slow release fertiliser. Ensure notch is large enough to accommodate roots without bending or breaking. Plant at the same depth transplant was growing at previously. All plants to be fitted with Tubex tree or shrub shelters according to species, securely staked and with full ground contact.

Each tree to be protected from deer by a 1.8m x 300mm diameter weld mesh tree shelter guard. Guard to be secured to 2no. (1.8m x 75mm diameter) softwood timber stakes with staples or cable ties.

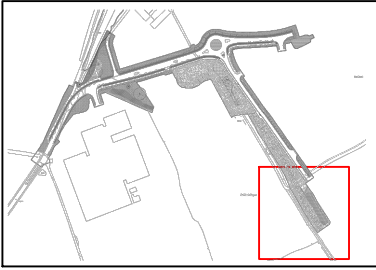
Planting to be carried out late October to late March, on a mild, damp day. Avoid days with frost or strong, drying winds.

Water immediately after planting.

In case of herbicide application after planting, it should be carried out by a suitably trained person, only in periods of low winds, and with careful directional application to ensure no spray drift. Observe all precautions recommended by the manufacturer and remove containers from site immediately after they have been emptied or are no longer required.

Existing trees to be protected with fencing as specified by the Arboriculturalist.

Botanical name	Symbol	Form	Min. supply size (cm)	Clear stem (cm)	Girth (cm)	Transplanted	Root condition	Total no.	Notes
Acer campestre	AC.CA	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	All new trees to have allowance for watering bag, double stake or underground guying and irrigation pipe.
Acer campestre 'Elsrijk'	AC.EL	Extra Heavy	400-450	min.200	14-16	3x	AirPot grown	13	
Alnus cordata	AL.CO	Extra Heavy	350-400	min.200	14-16	3x		28	
Alnus incana 'Aurea'	AL.IN	Heavy	350-400	min.200	12-14	3x		1	
Alnus glutinosa	AL.GL	Heavy	350-400	min.200	12-14	3x		7	
Betula pubescens	BE.PU	Multi-stem	200-250			3x	Container	6	
Carpinus betulus	CA.BE	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or		
Crataegus monogyna	CR.MO	Multi-stem	200-250			3x	Container	2	
Prunus avium	PR.AV	Extra Heavy	400-450	min.200	14-16	3x	Rootballed or	5	
Salix alba	SA.AL	Heavy	350-400	min.200	12-14	3x	AirPot grown	1	
Salix fragalis	SA.FR	Heavy	350-400	min.200	12-14	3x		1	
Sorbus aria	SO.AR	Extra Heavy	400-450	min.200	14-16	3x		2	
Tilia 'Winter Orange'	TI.WI	Extra Heavy	400-450	min.200	14-16	3x		7	
Quercus robur	QU.RO	Standard	250-300	min.200	8-10	3x		1	
Total trees								81	



PL01 - Marginal Planting mix							
Species		Specification			Planting		
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier		
PL02 - Pond Edge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EP1					as specified by the supplier	25%	
AQUATIC							
Butomus umbellatus			basket			10%	
Dipsacus fulurionum			2L			10%	
Hydrocharis morsus			2L			5%	
Lythrum salicaria			2L			10%	
Maryanthes trifoliata			2L			10%	
Nymphaea alba			basket			5%	
Vicia sepium			2L			10%	
GRASSES							
Carex x Elytroides			basket			5%	
Typha latifolia			2L			10%	
PL03 - Wetland Meadow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM8					as specified by the supplier		
PL04 - Buffer Scrub mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
SCRUB MIX							
Cornus sanguinea			bare root	40-60	2/m2	30%	Scrub mix to be planted at 1.5m centres on a grid in a single species group of 3-5
Crataegus monogyna			bare root	40-60	1/m2	25%	
Cystus scoparius			bare root	40-60	2/m2	5%	
Euonymus europaeus			bare root	40-60	1/m2	10%	
Ilex aquifolium			2L	40-60	2/m2	10%	
Ligustrum vulgare			bare root	40-60	2/m2	5%	
Rosa canina			bare root	40-60	1/m2	5%	
Salix caprea			bare root	40-60	2/m2	10%	
PL05 - Native Hedgerow mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
HEDGEROW MIX							
Acer campestre			bare root		7 plants per m	15%	Hedgerow to be planted in a double staggered row, rows, 250mm apart, at 300mm centres
Corylus avellana			bare root			20%	
Crataegus monogyna			bare root			20%	
Euonymus europaeus			bare root			5%	
Ilex aquifolium			bare root			10%	
Prunus spinosa			2L			5%	
Rosa canina			bare root			5%	
Quercus robur			bare root			5%	
Viburnum lantana			bare root			15%	
PL06 - Road Verge mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Germinal A18 road verge and embankments					as specified by the supplier		
PL07 - Species Rich Lawn mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Festuca rubra commutata					as specified by the supplier	as specified by the supplier	
Festuca rubra trichophylla							
Festuca ovina							
Lolium perenne							
Phleum bertolonii							
Poa pratensis							
PL08 - Road Edge Wildflower mix							
Botanical name	Symbol	Form	Container size	Height(cm)	Density/m2 or as noted	% Mix	Notes
Emorsgate EM3							

- LEGEND
- Site Boundary
 - 2.4 x 70m Junction Visibility (see ALP drawing A392-IV1-101 Rev P7)
 - 70m Pedestrian Visibility (see ALP drawing A392-IV1-101 Rev P7)
 - 5M Tree Exclusion Zone (see ALP drawing A392-IV1-1401 REV P6)
- SOFTWORKS
- Existing tree with RPA
 - Proposed tree - single stem
 - Proposed tree - multi-stem
- Existing trees to be retained
- Category A - High quality
 - Category B - Moderate quality
 - Category C - Low quality

- PL01 - Marginal Planting mix (Emorsgate EP1 sown at 4g/m²)
- PL02 - Pond Edge mix (Emorsgate EP1 sown at 4g/m² & Aquatic mix)
- PL03 - Wetland Meadow mix (Emorsgate EM8 sown at 4g/m²)
- PL04 - Buffer Scrub mix
- PL05 - Native Hedgerow mix
- PL06 - Road Verge mix
- PL07 - Species Rich Lawn mix, sown at 10g/m²
- PL08 - Road Edge Wildflower mix (Emorsgate EM3 - sown at 4g/m²)
- Area to be left to allow natural succession. Any concrete road present to be broken up and removed from site
- Existing hedge to be retained
- Proposed lighting columns Refer to Engineer's drawings
- Proposed V mesh security fencing (British Museum) and gate to match existing
- Proposed post and 3 rail timber fence
- Proposed filter drain
- Indicative rootzone area shown as 26m² to provide a volume of 12cu/m

- No Dimensions are to be scaled from this drawing. All dimensions to be checked on site. Area measurements for indicative purposes only.
- Contractors must verify all figured dimensions at site before commencing any work or making any Shop drawings.
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No.	Revisions	By	Date
A	Draft issue for planning	EM	02.10.23
B	Issue for planning	EM	19.10.23
C	Updates to fencing, footways and planting	AIL	10.11.23
D	Updates to tree locations and table	AIL	06.03.24
E	Issue to incorporate planning officers comments	EM	17.04.24
F	Tree pit extents and filter drains added	RA	11.10.24



URBAN DESIGN STUDIO

Client		By		Date
University of Reading		EM		02.10.23
Job		AIL		19.10.23
Thames Valley Science Park		AIL		10.11.23
Primary Infrastructure		EM		06.03.24
Drawing Title		EM		17.04.24
NHM Access Road:		RA		11.10.24
Landscape Planting Plan - Sheet 10				
Job No.	498048	Date	02.10.2023	
Drawn By	EM	Checked By	RB	
Scale	1:200@A1	Drawing No.	LA057	Rev.
				F

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