

**SOFT LANDSCAPE WORKS
MAINTENANCE AND
MANAGEMENT PROPOSALS
(ATTENUATION AREAS)
– 5 YEARS**

HOYLAND WEST

Hoyland



Barry Chinn Associated Limited

Harbury Road, Deppers Bridge
Southam, Warwickshire, CV47 2SZ

Reference:	HOY-BCA-ELS-XX-RP-L-S8-2044/20-RP03-P4
Date:	15/10/2021
Author:	MG
Checked:	MG

CONTENTS

MAINTENANCE AND MANAGEMENT STATEMENT

APPENDICES

APPENDIX A YEAR 1 LANDSCAPE MAINTENANCE SCHEDULE

APPENDIX B MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR
5 YEAR PERIOD

APPENDIX C DRAWINGS

DRAWING TITLE	SCALE	DRAWING NO.	REV
Landscape Species Schedule	1:500-A2	2044/20-01	P5
Landscape Proposals Drawing 09	1:500-A0	2044/20-09	P12
Landscape Proposals Drawing 10	1:500-A0	2044/20-10	P13

MAINTENANCE AND MANAGEMENT STATEMENT

(Refer to Appendix C for landscape proposals drawings)

The establishment and future success of the external landscape is largely dependent on the standard and frequency of the subsequent maintenance and management it receives. Throughout the development period and thereafter a maintenance and management regime will be adopted with the following aims and objectives.

The aims and objectives of the landscape maintenance and management (specifically for attenuation areas) will be:

- To ensure that the maintenance and management of the soft landscape areas is commensurate with and achieves the aims and objectives of the Biodiversity Enhancement and Management Plan prepared by FPCR Ecology consultants.
- To ensure the successful establishment and retention of effective landscape buffer planting, particularly along the boundaries of the Basins.
- To secure a long term future for the existing trees and new tree and thicket planting with particular emphasis upon achieving enhancement of ecological potential, conservation and visual amenity.
- To manage the landscape in a manner convivial with the safety of site users and maintenance operatives.
- To ensure the successful establishment and continual enhancement of the landscape areas in accordance with ecological principles and ecologist's recommendations to increase the overall bio-diversity of the site.

The soft landscape will, for the initial 1 year after Practical Completion, be maintained by the Landscape Contractor responsible for implementation of the works. The contract will include a defects liability clause to ensure replacement planting is carried out and successful establishment achieved. Refer to Appendix A for the schedule of maintenance for year 1. Thereafter maintenance contracts will be organised by facilities management on an annual basis.

The maintenance and management matrix (Appendix B) provides information the general techniques and methods to be adopted for the ongoing maintenance operations.

These will be reviewed at regular intervals to respond to natural or man-made changes in the environment which affect the landscape types (eg. tree disease).

APPENDIX A

YEAR 1 MAINTENANCE SCHEDULE

	YEAR 1 LANDSCAPE MAINTENANCE SCHEDULE	FREQUENCY
	DESCRIPTION	
	During the initial twelve month period after Practical Completion; Allow for twenty-two maintenance visits (18 during the growing season, 4 during the dormant season). A visit shall be defined as the period of time required by the Contractor to carry out all maintenance items specified in the Schedule of work below.	
	Notes: 1. Ongoing management of all woody and suitable ground nesting vegetation to be carried out outside of bird nesting season (March-August inclusive) or checked prior to pruning operations by a qualified Ecologist if within this time. 2. For habitat management of scrub, grassland, hedgerow and wetland, operations involving cutting vegetation to ground level will be undertaken during the reptile active season (March-Mid October) during suitable weather conditions when temperatures are consistently > 9 degrees C.	
A	GENERAL	
A.1	Tidy up areas removing rubbish, litter, etc., from planted and grassed areas.	At each visit
A.2	Check that the plant material is firmly planted and firm in where required.	6 times
A.3	Treat pests and diseases by agreement with the Contract Administrator.	As necessary
A.4	Prune woodland transplants / shrubs as necessary to avoid conflict with footpaths, grass mowing, etc.	As necessary
B	TREE PLANTING	
B.1	Check, adjust and replace stakes and ties as necessary. Prune, water and feed where required.	As necessary
B.2	Check spiral guards and replace when required.	Four times
C	WOODLAND / THICKET / NATIVE HEDGE PLANTED AREAS	
C.1	Keep areas clear of weed growth by spot herbicide treatment as appropriate from mid April to late September.	Four times

	YEAR 1 LANDSCAPE MAINTENANCE SCHEDULE	FREQUENCY
C.2	Check shelter guards and refirm / replace when required. Remove weed growth from within.	Four times
D	MAINTENANCE OF GRASS AREAS (CLOSE MOWN)	
D.1	Grass will be mown to frequency stated. Litter will be collected immediately prior to mowing. Note: at each cut excessive arisings shall be removed from site.	12-18 times/year dependent on location & season
D.2	Eroded or worn areas will be re-seeded.	May or September
E	MAINTENANCE OF WILDFLOWER/ GRASSLAND AREAS	
E.1	If autumn sown the sward shall be cut 3no. times in first year, once in March, once in May and once in September. If Spring sown then sward shall be cut once after six weeks (if sufficient material) and then twice more, once in May and once in September. Maintenance thereafter to be cut twice per annum, once in March/ April and once in September / October. All cuts to be to a length of 40-60mm and to the recommendations of the seed supplier. Note: at each cut excessive arisings shall be removed from site.	When appropriate to maximize seed dispersal.
E.2	No pesticides or fertilizer will be used.	
F	MAINTENANCE OF ATTENUATION BASIN 1	
F1	To be maintained by Yorkshire water to suit CIRA requirements.	
G	MAINTENANCE OF ATTENUATION BASIN 2	
G1	To be mown to CIRA requirement to maintain height of 75-150mm across the main treatment surface to assist in filtering pollutants and retaining sediments. Removal of grass clipping to prevent future blockages.	12- times/ year during growing season subject to accessibility
G2	Headwall inlets/outlets to be inspected at each maintenance visit and cleared of vegetation/ blockages by foreign objects as necessary to maintain free flow.	At each visit

APPENDIX B

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 5 YEAR PERIOD

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 5 YEAR PERIOD					
ITEM OF WORK	YR 1	YR 2	YR 3	YR 4	YR 5 ONWARDS

GENERAL

Notes:

1. Ongoing management of all woody and suitable ground nesting vegetation to be carried out outside of bird nesting season (March-August inclusive) or checked prior to pruning operations by a qualified Ecologist if within this time.
2. For habitat management of scrub, grassland, hedgerow and wetland, operations involving cutting vegetation to ground level will be undertaken during the reptile active season (March-Mid October) during suitable weather conditions when temperatures are consistently > 9 degrees C.

Tidy up areas removing rubbish, litter, etc, from planted and grass areas	✓	✓	✓	✓	✓
Treat pests and disease as necessary	✓	✓	✓	✓	✓
Water all plant material and grass as necessary to maintain healthy growth	✓	✓	✓		
Check plant material is firmly planted and firm in where required.	✓	✓	✓		
Dead, dying or diseased wood to be pruned out	✓	✓	✓	✓	✓
Check shelter guards / rabbit protection and refirm / replace as required including removing weed growth from within. Consider removal at years 4 to 5.	✓	4 times	4 times	2 times	2 times
Removal of diseased or dead plants with replacements as appropriate	✓	✓	✓	✓	✓

TREE PLANTING

Check, adjust, replace stakes and ties as necessary. Remove stakes after approximately 3 years if appropriate. Prune, water and feed as necessary.	✓	✓	✓	✓	✓
Remedial tree surgery as necessary to remove any dead, dying or diseased branches and to allow the tree to achieve full stature. All works to be carried out by an Arboricultural Association approved contractor in accordance with BS3998: Recommendations for Tree Work.	✓	✓	✓	✓	✓

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 5 YEAR PERIOD					
ITEM OF WORK	YR 1	YR 2	YR 3	YR 4	YR 5 ONWARDS

WOODLAND / THICKET / NATIVE HEDGE PLANTED AREAS

Keep areas clear of weed growth by herbicide treatment as appropriate from mid April to late September.	4 times	4 times	4 times	4 times	2 times
Woodland mix planting to be managed to ultimately achieve a tree canopy with understorey. Thicket mix to achieve age diversity. A gradual development of a diverse age structure should be established over a period of time by the use of a regime of selective thinning, pruning and coppicing.					1/3 of thicket plants
Remove branches that overhang footpaths or prevent access for grass cutting. Allow native hedges to achieve natural form with only lower branches removed.	✓	✓	✓	✓	✓
Prune native hedges to minimum height above 1.5m height (approx. timing September) as required depending on establishment. Cut sides, tops and ends to straight and true lines.	✓	✓	✓	✓	✓

CLOSE 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	✓	✓	✓	✓	✓
Application of fertilizer and selective weedkiller as appropriate	✓	✓	✓	✓	✓
Re-seeding of eroded or worn areas	✓	✓	✓	✓	✓

WILDFLOWER/ GRASSLAND AREAS

Grass cutting. 1no. cut per year When appropriate to maximize seed dispersal following recommendation from an ecologist.	✓	✓	✓	✓	✓
Treat and remove pernicious weed growth where it may be detrimental to establishment of wildflower sward.	✓	✓	✓	✓	✓

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 5 YEAR PERIOD					
ITEM OF WORK	YR 1	YR 2	YR 3	YR 4	YR 5 ONWARDS
<u>Attenuation basis: Generally;</u> Willow and other native shrub species planted within areas of flood attenuation shall be coppiced to ground level on a cyclical basis. Selected trees shall be allowed to grow on to mature size. Excessive feathered growths at base of plants shall be removed if they would significantly reduce flood attenuation capacity.			1/3 rd of plants		1/3 rd of plants every second year
Headwall inlets/outlets to be inspected at each maintenance visit and cleared of vegetation/ blockages by foreign objects as necessary to maintain free flow.	✓	✓	✓	✓	✓
Where necessary aggressive or pernicious weeds or woody plants shall be removed within basin areas	✓	✓	✓	✓	✓
<u>Basin 1 floor;</u> To be maintained by Yorkshire water to suit CIRA requirements.	✓	✓	✓	✓	✓
<u>Basin 2;</u> To be mown to CIRIA requirement to maintain height of 75-150mm across the main treatment surface to assist in filtering pollutants and retaining sediments. Removal of grass clipping to prevent future blockages.	✓	✓	✓	✓	✓
<u>Basin 2 pond/emergent vegetation</u> Monitoring (late autumn or early spring) of silt levels to ensure maintenance of 1m water depth (at pond centre)	✓	✓	✓	✓	✓
Mechanical removal (late autumn or early spring) to achieve above depth and removal of up to 1/3 to ½ emergent vegetation.	✓	✓	✓	✓	✓
Some de-silting likely to be needed in first 3 years to deal with excess silt deposition during vegetation establishment period and care should be taken (as far as practicable) at this time to avoid disturbance/removal of establishing marginal vegetation.	✓	✓	✓		

MAINTENANCE AND MANAGEMENT SCHEDULE MATRIX FOR 5 YEAR PERIOD					
ITEM OF WORK	YR 1	YR 2	YR 3	YR 4	YR 5 ONWARDS
<u>Bankside vegetation</u> ; Cutting 1/3 to ½ of bankside vegetation on rotation every 2-3 years to control cover.			✓		✓

APPENDIX C

DRAWINGS

DRAWING TITLE	SCALE	DRAWING NO.	REV
Landscape Species Schedule	1:500-A2	2044/20-01	P5
Landscape Proposals Drawing 09	1:500-A0	2044/20-09	P12
Landscape Proposals Drawing 10	1:500-A0	2044/20-10	P13

KEY



EXISTING VEGETATION TO BE RETAINED
(To be pretcted during construction in accordance with BS 5837: 2012 'Trees in relation to design, demolition & Construction'). Refer to FPCR drawings.



EXTRA HEAVY STANDARD TREES
(Tree pit size: 1500x1500x900mm backfilled with topsoil)
18-20cm stem girth
4.5-5.5m height
1.8-2.1m clear stem
Rootballed

Tree Species	Common name
AcS	Acer campestre 'Streetwise'
ApC	Acer platanoides 'Columnare'
Ar	Acer rubrum
Cb	Carpinus betulus
PaP	Prunus avium 'Plena'
PcC	Pyrus calleryana 'Chanticleer'
Tc	Tilia cordata 'Greenspire'
UNH	Ulmus 'New Horizon'



HEAVY STANDARD TREES
(Tree pit size: 1000x1000x750mm backfilled with topsoil)
12-14cm stem girth
3.5-4.0m height
1.8-2.1m clear stem
Root wrapped

Tree Species	Common name
Ac	Acer campestre
Ag	Alnus glutinosa
Al	Amelanchier lamarkii 'Robin Hill'
Cl	Crataegus laevigata 'Pauls Scarlett'
Pa	Prunus avium
Sal	Salix alba
Sa	Sorbus aucuparia



FEATHERED TREES
1.75-2.0m height 2x transplanted
Well furnished with lateral shoots to base
Root wrapped

Tree Species	Common name
Ac	Acer campestre
Ag	Alnus glutinosa
Bp	Betula pendula
Bpu	Betula pubescens
Pt	Populus tremula
Pa	Prunus avium
Qr	Quercus robur



PROPOSED MULTI-STEM TREES
(Tree pit size: 1000x1000x750mm backfilled with topsoil)
3.5-4.0m height
5x transplanted
Rootballed

Ba	Betula albosinensis
BuJ	Betula utilis 'Jerymns'
SaB	Salix alba 'Britzensis'



PROPOSED CONIFEROUS TREES
(Tree pit size: 1000x1000x750mm backfilled with topsoil)
2.5-3.0m height
Rootballed

Ps	Pinus sylvestris
----	------------------



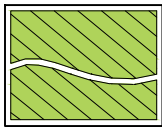
PROPOSED SPECIMEN SHRUBS
(300mm depth of topsoil)

Species	Supply Size	Pot Size
Amelanchier canadensis	900-1200mm	15L
Cornus alba 'Elegantissima'	900-1200mm	15L
Mahonia x media 'Winter Sun'	900-1200mm	15L
Viburnum x burkwoodii	900-1200mm	15L



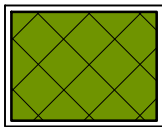
PROPOSED LOW GROUNDCOVER PLANTING
(300mm depth of topsoil onto 300mm depth subsoil)
Ultimate plant height is below 1m.

Species	Supply Size	Pot Size	Spacing
Berberis frikartii 'Amstelveen'	300-400mm	3L	500mm c/s
Cornus stolonifera 'Kelseyil'	200-300mm	3L	450mm c/s
Cotoneaster dammeri 'Oakwood'	300-400mm	3L	500mm c/s
Genista lydia	300-400mm	3L	450mm c/s
Hebe pinguifolia 'Sutherlandii'	200-300mm	3L	500mm c/s
Hypericum x moserianum	300-400mm	3L	500mm c/s
Lonicera nitida 'Maygreen'	300-400mm	2L	600mm c/s
Pyracantha 'Red Cushion'	300-400mm	3L	600mm c/s
Prunus laurocerasus 'Cherry Brandy'	300-400mm	3L	600mm c/s
Rosa 'Kent'	300-400mm	3L	450mm c/s
Spiraea japonica 'Candlelight'	200-300mm	3L	600mm c/s
Stephanandra incisa 'Crispa'	300-400mm	2L	500mm c/s
Symphoricarpos x c. 'Hancock'	400-600mm	3L	500mm c/s



PROPOSED ORNAMENTAL SHRUB PLANTING
(300mm depth of topsoil onto 300mm depth subsoil)
Ultimate plant height is above 1m.

Species	Supply Size	Pot Size	Spacing
Amelanchier canadensis	400-600mm	3L	750mm c/s
Berberis darwinii	300-400mm	3L	600mm c/s
Cornus alba 'Elegantissima'	600-800mm	3L	600mm c/s
Cornus alba 'Sibirica'	600-800mm	3L	600mm c/s
Cornus sanguinea	400-600mm	OG	750mm c/s
Cornus sanguinea 'Mid-Winter Fire'	450-600mm	3L	600mm c/s
Cornus stolonifera 'Flaviramea'	600-800mm	3L	600mm c/s
Escallonia 'Apple Blossom'	400-600mm	3L	600mm c/s
Pyracantha 'Saphyr Orange'	400-600mm	3L	600mm c/s
Rosa canina	400-600mm	OG	750mm c/s
Ulex europaeus	400-600mm	OG	750mm c/s
Viburnum tinus 'Eve Price'	200-300mm	3L	750mm c/s



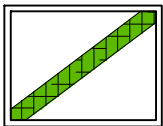
PROPOSED WOODLAND MIX PLANTING
(300mm depth of topsoil onto 600mm depth subsoil)
Where woodland or thicket is planted next to a hard surface/kerb/fence, it should be positioned 1m from the edge.

Trees species (indicated thus *) are to be planted in single species groups of 7-11 at 3m apart. Shrubs to be planted in groups of 7-15 of the same species on a 1.5m grid.

%	Species	Common Name	Size	Age	Root/Pot Size
10%	Alnus glutinosa*	Alder	400-600mm	1+1	OG
5%	Betula pubescens *	Downy Birch	400-600mm	1+1	OG
25%	Corylus avellana	Hazel	400-600mm	1+1	OG
35%	Crataegus monogyna	Hawthorn	400-600mm	1+1	OG
5%	Ilex aquifolium	Holly	400-600mm		2L
5%	Malus sylvestris *	Crab apple	400-600mm	1+1	OG
5%	Prunus spinosa	Blackthorn	400-600mm	1+1	OG
5%	Quercus robur *	Pedunculate oak	400-600mm	1+1	OG

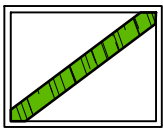
Feathered Trees - Well furnished with lateral roots to the base to be planted within the 1.5m grid at 3m centres.

%	Species	Common Name	Size	Root
1%	Acer campestre *	Field Maple	1.8-2.1m height	Bare rooted (wrapped)
1%	Alnus glutinosa *	Alder	1.8-2.1m height	Bare rooted (wrapped)
1%	Betula pubescens *	Downy Birch	1.8-2.1m height	Bare rooted (wrapped)
1%	Prunus avium *	Wild Cherry	1.8-2.1m height	Bare rooted (wrapped)
1%	Quercus robur *	Pedunculate oak	1.8-2.1m height	Bare rooted (wrapped)



CLIPPED HEDGEROW
(300mm depth of topsoil onto 300mm depth subsoil)
Planted at 450mm centres in a double staggered row. Rows to be 500mm apart.

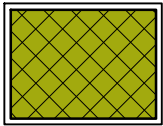
%	Species	Size	Pot Size	
100	Carpinus betulus	450-600mm	3L	(Bushy plant min 5 breaks)
100	Escallonia 'Apple Blossom'	400-600mm	3L	



PROPOSED INDIGENOUS HEDGEROW
(300mm depth of topsoil onto 600mm depth subsoil)

Planted at 450mm centres in a double staggered row. Rows to be 500mm apart.

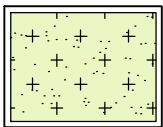
%	Species	Common Name	Size	Age	Root
10%	Cornus sanguinea	Dogwood	400-600mm	1+1	OG
10%	Corylus avellana	Hazel	400-600mm	1+1	OG
50%	Crataegus monogyna	Hawthorn	400-600mm	1+1	OG
2.5%	Ilex aquifolium	Holly	400-600mm		2L
2.5%	Ligustrum vulgare	Privet	400-600mm	1+1	OG
10%	Prunus spinosa	Blackthorn	400-600mm	1+1	OG
5%	Rosa canina	Dog rose	400-600mm	1+1	OG
5%	Ulmus glabra	Wych Elm	400-600mm	1+1	OG
5%	Viburnum opulus	Guelder Rose	400-600mm	1+1	OG



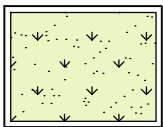
PROPOSED THICKET MIX PLANTING
(300mm depth of topsoil onto 600mm depth subsoil)

Where woodland or thicket is planted next to a hard surface/kerb/fence, it should be positioned 1m from the edge. Transplants planted in groups of 7-15 of the same species on a 1.0m grid.

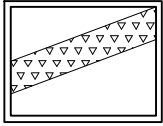
%	Species	Common Name	Size	Age	Root/Pot Size
10%	Acer campestre	Field Maple	400-600mm	1+1	OG
10%	Cornus sanguinea	Dogwood	400-600mm	1+1	OG
15%	Corylus avellana	Hazel	400-600mm	1+1	OG
20%	Crataegus monogyna	Hawthorn	400-600mm	1+1	OG
5%	Ilex aquifolium	Holly	400-600mm		2L
5%	Ligustrum vulgare	Privet	400-600mm	1+1	OG
10%	Prunus spinosa	Blackthorn	400-600mm	1+1	OG
5%	Rosa canina	Dog rose	400-600mm	1+1	OG
5%	Salix caprea	Goat willow	600-800mm	1+0	OG
5%	Sambucus nigra	Elder	400-600mm	1+1	OG
10%	Viburnum opulus	Guelder Rose	400-600mm	1+1	OG



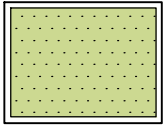
PROPOSED WILDFLOWER GRASS SEED (General areas)
(Cultivated subsoil to a depth of 300mm)
Emorsgate EM1 General Purpose Meadow Mixture at a rate of 4g/m2.



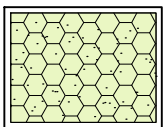
PROPOSED WILDFLOWER GRASS SEED (Attenuation areas)
(Cultivated subsoil to a depth of 300mm)
Any areas disturbed by drainage works to be seeded with Emorsgate EM8 Meadow Mixture for Wetlands at a rate of 4g/m2.



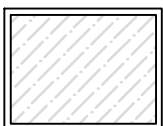
PROPOSED WILDFLOWER GRASS SEED (Wet marginal areas to ponds/swales/ attentaution areas)
(Cultivated subsoil to a depth of 300mm)
Areas along average water line to be seeded with Emorsgate EP1 Pond Edge Mixture at a rate of 4g/m2.



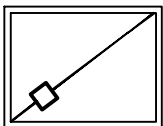
PROPOSED CLOSE MOWN GRASS AREAS
(150mm depth of topsoil onto 300mm depth subsoil)
DLF Trifolium Promaster 120 slowgrowth at a rate of 35-50g/m2.



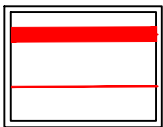
REINFORCED SURFACE WITH SPECIES RICH GRASS SEED MIX - FIRE TRACK & MAINTENANCE ACCESS (Cultivated soil to manufacturers specification)
Emorsgate EN1F Special Pollen & Nectar Wild Flowers at a rate of 1.5g/m2.



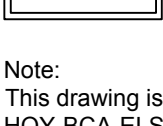
GRAVEL OR HARD SURFACE AREAS
(Within service yard areas to avoid needs for landscape maintenance adjacent to operational HGV traffic)



FENCE



SITE BOUNDARY

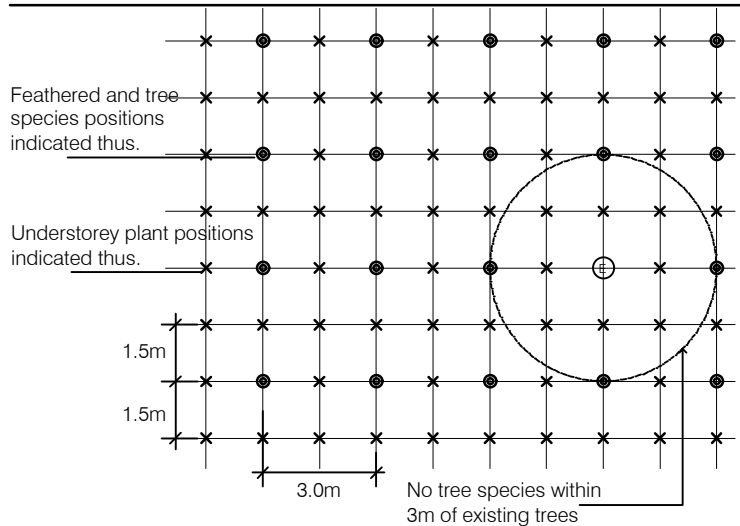


PLOT BOUNDARY

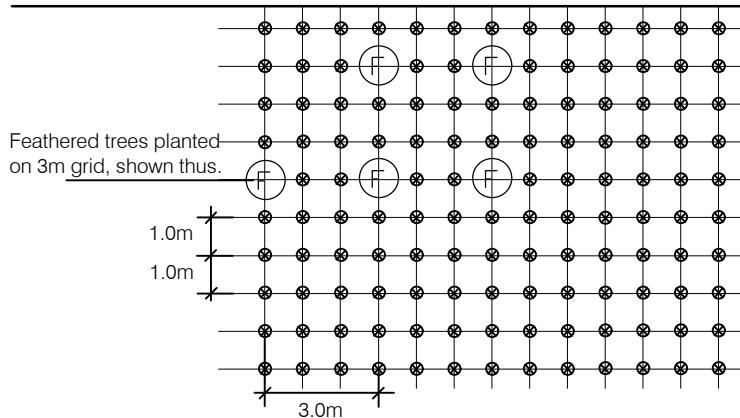
Note:

This drawing is to be read in conjunction with BCA Landscape Proposals drawings HOY-BCA-ELS-XX-DR-L-S8-2044/20-04-10.

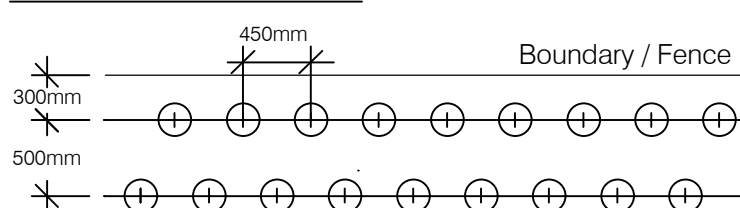
WOODLAND THICKET MIX - LAYOUT GRID 1:200



WOODLAND EDGE THICKET MIX - LAYOUT GRID 1:200



HEDGE PLANTING DETAIL 1:50



Revisions

P1-Preliminary issue for team comment/approval. 01/05/20 MG
P2-Revised following fpcr Ecology comments. 05/05/20 MG
P3-Rosa rugosa omitted. 06/05/20 MG
P4-Planning issue. 18/05/20 MG
P5-Coordination with landscape proposals drg key 04/06/20 MG

Hoyland West
Hoyland



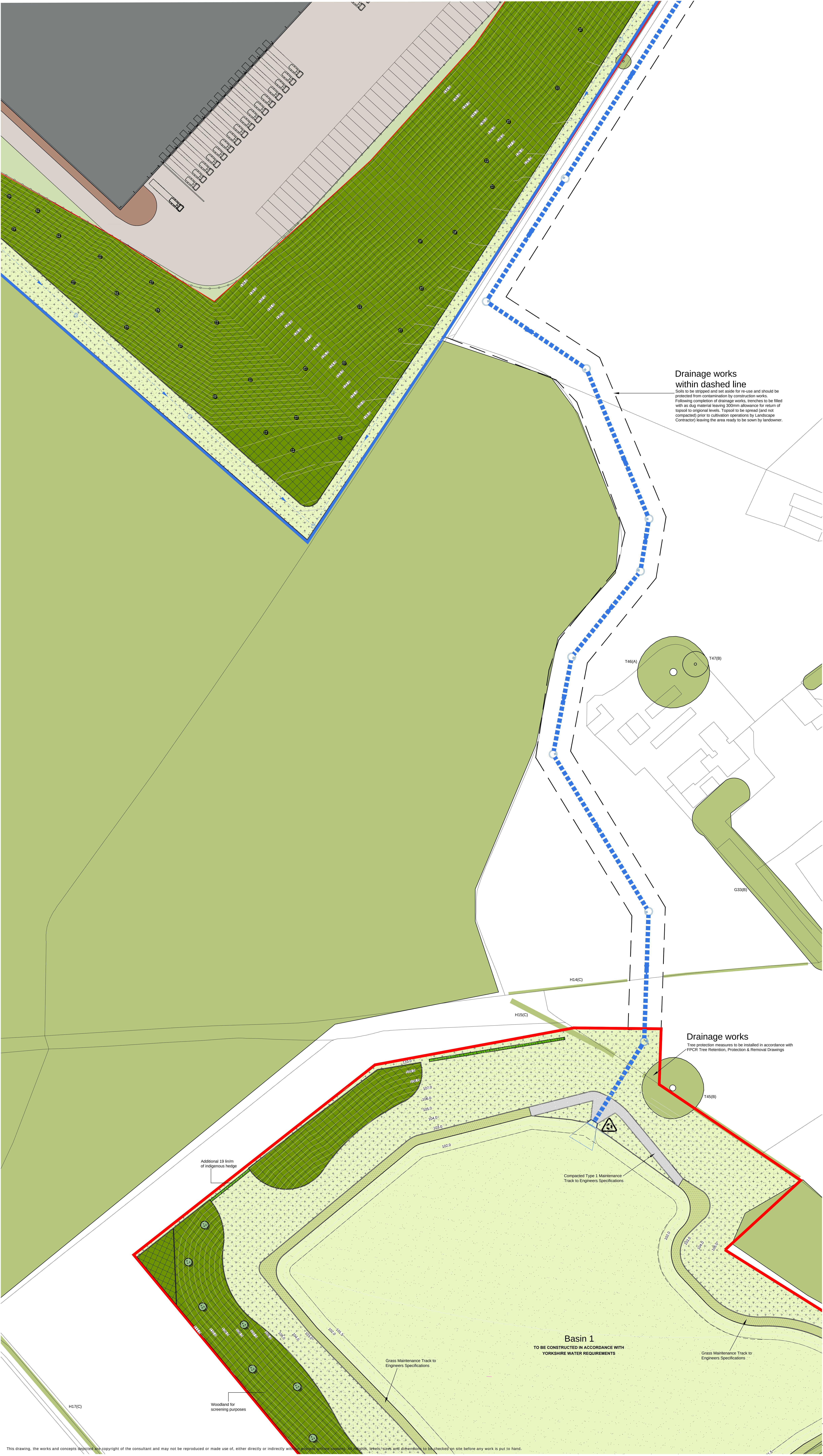
Barry Chinn Associates Ltd.

www.bca-landscape.com

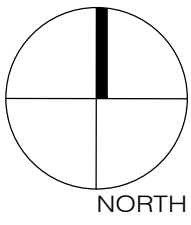
Landscape Species Schedule

Drawing Status: Planning
CAD Reference: 2044-20-01-Soft-Lscp-spp-schedule.dwg
Drawn: MG
Date: 01/05/2020
Scale @A2: 1:500

Project No: 2044/20
Drawing No: HOY-BCA-ELS-XX-DR-L-2044/20-01-S8
Rev: P5



REFER TO BCA DRAWING 2044/20-01 LANDSCAPE SPECIES SCHEDULE FOR DETAILED LANDSCAPE INFORMATION ON LANDSCAPE SPECIES, TYPE, SIZE, NUMBERS DENSITY OF PLANTING RELATION TO THIS KEY.



KEY

- EXISTING VEGETATION TO BE RETAINED
(To be protected during construction in accordance with BS 5837: 2012 'Trees in relation to design, demolition & Construction'). Refer to FPCR drawings.
- PROPOSED MULTI-STEM TREES
(Tree pit size: 1000x1000x750mm backfilled with topsoil)
3-4.0m height
5x transplanted
rootballed
 - Betula albosinensis
 - Betula utilis 'Jermyns'
 - Salix alba 'Britzensis'
- PROPOSED INDIGENOUS HEDGEROW
(300mm depth of topsoil onto 600mm depth subsoil)
Planted at 450mm centres in a double staggered row.
Rows to be 500mm apart.
- PROPOSED WOODLAND MIX PLANTING
(300mm depth of topsoil onto 600mm depth subsoil)
Trees species are to be planted in single species groups of 7-15 at 3m apart. Shrubs to be planted in groups of 7-15 of the same species on a 1.5m grid.
- PROPOSED WOODLAND MIX PLANTING (DRAINAGE MIX)
(300mm depth of topsoil onto 600mm depth subsoil)
Tree species omitted. Shrubs to be planted in groups of 7-15 of the same species on a 1.5m grid.
- PROPOSED WILDFLOWER GRASS SEED - GENERAL AREAS
(Cultivated subsoil to a depth of 300mm)
To be seeded with Emongate EM8 Special General Purpose Meadow Mixture at a rate of 4g/m².
- PROPOSED WILDFLOWER GRASS SEED ATTENTION AREAS
(Cultivated subsoil to a depth of 300mm)
To be seeded with Emongate EM8 Meadow Mixture for Wetlands at a rate of 4g/m².
- BASIN 1 TO BE CONSTRUCTED IN ACCORDANCE WITH YORKSHIRE WATER REQUIREMENTS
- PROPOSED CLOSE MOWN GRASS AREAS
(150mm depth of topsoil onto 300mm depth subsoil)
DLF Trifolium Promaster 120 slowgrowth at a rate of 35-50g/m².
- FENCE
(To Architects/Engineers details)
- APPLICATION BOUNDARY
- BOUNDARY OF LAND OWNED BY APPLICANT
- PROPOSED DRAINAGE
In accordance with Engineers drawings

Notes:
For proposed FFL's, plateau and earthworks levels refer to RPS Engineers drawings.
Layout based upon PHP Architects Masterplan
HOY PHP-GBN-XX-DR-A-400-001, P34 22/02/2021 and Plot 1 Site Plan P20026-PHP-IA-00-DR-A-0101 P14 04/03/2021. Landscape design principles based upon FPCR Biodiversity Enhancement and Management Plan issued 09/04/2020.

0 12.5 25 37.5 50m
0 10 20 30 40 50 60 70 80 90 100mm
Scale 1:500

Drainage works within dashed line

Soils to be stripped and set aside for re-use and should be protected from contamination by construction works.
Following completion of drainage works, trenches to be filled with as dug material leaving 300mm allowance for return of topsoil to original levels. Topsoil to be spread (and not compacted) prior to cultivation operations by Landscape Contractor leaving the area ready to be sown by landowner.

Drainage works

Tree protection measures to be installed in accordance with FPCR Tree Retention, Protection & Removal Drawings

Revisions		
P1	Planning issue	04/06/20 MG
P2	Revised to Masterplan P27.	28/08/20 MGO
P3	Revised to Masterplan P33.	27/01/21 MGO
P4	Revised to Masterplan P34 and Plot 1 Site Plan P14.	11/03/21 MGO
P5	Revised in accordance with RPS's Pond Drainage Layout.	30/03/21 MGO
P6	Revised in accordance with team comments.	06/04/21 MGO
P7	Revised in accordance with RPS's and FPCR's Basin Layout.	15/04/21 MGO
P8	Basin 1 amended in accordance with team comments.	15/04/21 MGO
P9	Boundary line amendments	17/05/21 MGO
P10	Boundary line amendments	18/05/21 MGO
P11	Key updated to suitably define boundaries and drainage layout	18/05/21 MGO
P12	Amended in accordance for Ecologists requests	25/06/21 MGO

Hoyland West
Hoyland

newlands
developments

Barry Chinn Associates Ltd.
www.bca-landscape.com

Landscape Proposals Drawing 09

Drawing Status: Planning
CAD Reference: 2044-20-03-lscp-proposals.dwg
Drawn: MG
Date: 05/05/2020
Scale @A0: 1:500

Project No: 2044/20
Drawing No: HOY-BCA-ELS-XX-DR-L-2044/20-09-S8
Rev: P12



REFER TO BCA DRAWING 2044-20-03 LANDSCAPE SPECIES SCHEDULE FOR DETAILED LANDSCAPE INFORMATION ON LANDSCAPE SPECIES, TYPE, SIZE, NUMBERS DENSITY OF PLANTING RELATION TO THIS KEY.

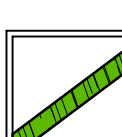
KEY



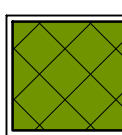
EXISTING VEGETATION TO BE RETAINED
(To be protected during construction in accordance with BS 5837: 2012. Trees in relation to design, demolition & construction). Refer to FPCR drawings.



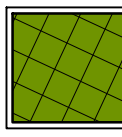
PROPOSED MULTI-STEM TREES
(Tree pit size: 1000x1000x750mm backfilled with topsoil)
3.5-4.0m height
So transplanted
Rootballed
Betula albosinensis
Betula utilis 'Jermyni'
Salix alba 'Vitense'



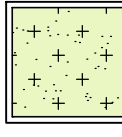
PROPOSED INDIGENOUS HEDGEROW
(300mm depth of topsoil onto 600mm depth subsoil)
Planted at 450mm centres in a double staggered row.
Rows to be 500mm apart.



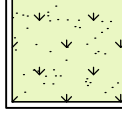
PROPOSED WOODLAND MIX PLANTING
(300mm depth of topsoil onto 600mm depth subsoil)
Three species are to be planted in single species groups of 7-11 at 3m apart. Shrubs to be planted in groups of 7-15 of the same species on a 1.5m grid.



PROPOSED WOODLAND MIX PLANTING
(300mm depth of topsoil onto 600mm depth subsoil)
Tree species omitted. Shrubs to be planted in groups of 7-15 of the same species on a 1.5m grid.



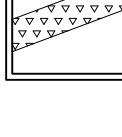
PROPOSED WILDFLOWER GRASS SEED - GENERAL AREAS
(Cultivated subsoil to a depth of 300mm)
Emorsgate EMS Special General Purpose Meadow Mixture at a rate of 4g/m².



PROPOSED WILDFLOWER GRASS SEED ATTENUATION AREAS
(Cultivated subsoil to a depth of 300mm)
To be seeded with Emorsgate EMS Meadow Mixture for Wetlands at a rate of 4g/m².



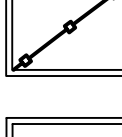
PROPOSED WILDFLOWER GRASS SEED WET MARGINAL AREAS TO PONDS/SWALES ATTENUATION AREAS
(Cultivated subsoil to a depth of 300mm)
Areas along average water line to be seeded with Emorsgate EPI Pond Edge Mixture at a rate of 4g/m².



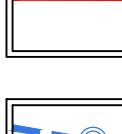
PROPOSED CLOSE MOWN GRASS AREAS
(150mm depth of topsoil onto 300mm depth subsoil)
DLE Trifolium Promaster 120 slowgrowth at a rate of 35-50g/m².



FENCE
(To Architects/Engineers details)



APPLICATION BOUNDARY



PROPOSED DRAINAGE
in accordance with Engineers drawings

Notes:

For proposed FFL's, plateau and earthworks levels refer to RPS Engineers drawings.

Layout based upon PHP Architects Masterplan

HOY-PHP-GS9-XX-DR-A-4000-001-P34-22032021 and Plot 1 Site Plan P30026-PHP-1A-00-DR-A-0101-P14-04032021. Landscape design principles based upon FPCR Biodiversity Enhancement and Management Plan issued 09/04/2020.

0 12.5 25 37.5 50m

0 10 20 30 40 50 60 70 80 90 100mm

Scale 1:500

Drainage works

Soils to be stripped and set aside for re-use and should be protected from contamination by construction works.

Following completion of drainage works, trenches to be filled with as dug material leaving 300mm allowance for return of topsoil to original levels. Topsoil to be spread (and not compacted) prior to cultivation operations by Landscape Contractor leaving the area ready to be sown by landowner.

Hoyland West
Hoyland

newlands
developments

Barry Chinn Associates Ltd.
www.bca-landscape.com

Landscape Proposals Drawing 10

Drawing Status: Planning
CAD Reference: 2044-20-03-lscpp-proposals.dwg
Drawn: MG
Date: 05/05/2020
Scale @A0: 1:500

Project No: 2044/20 HOY-BCA-ELS-XX-DR-L-2044/20-10-S8 P13
Drawing No: Rev:

Revisions		
P1	Planning Issue	04/06/20 MG
P2	Revised to Masterplan P27.	28/08/20 MG
P3	Revised to Masterplan P33.	14/01/21 MGO
P4	Revised to Masterplan P34 and Plot 1 Site Plan P14.	11/03/21 MGO
P5	Revised in accordance with RPS's Pond Drainage Layout.	30/03/21 MGO
P6	Revised in accordance with team comments.	06/04/21 MGO
P7	Revised in accordance with RPS's and FPCR's Basin Layout.	15/04/21 MGO
P8	Basin 1 & 2 amended in accordance with team comments.	15/04/21 MGO
P9	Boundary line amendments	17/05/21 MGO
P10	Key updated to indicate drainage layout	18/05/21 MGO
P11	Amended in accordance with Ecologists requests	25/06/21 MGO
P12	Amended in accordance team requests	14/10/21 MGO
P13	Amended in accordance team requests	15/10/21 MGO

This drawing, the works and concepts depicted are copyright of the consultant and may not be reproduced or made use of, either directly or indirectly without express written consent. All heights, levels, sizes and dimensions to be checked on site before any work is put to hand.