

EDNC Consortium

EDNC, Cranbrook

Phase 2 Hedgebank Management Plan

Ecological Monitoring – Condition Survey – Year 1

November 2017

FPCR Environment and Design Ltd

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Rev	Issue Status	Prepared/Date	Approved/Date		
-	Draft 1	BL / February 2017			
	Draft 2	JRM / August 2017	KEF / November 2017		

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1.0 INTRODUCTION

- 1.1 This document outlines the condition survey that is to be undertaken annually by the project Ecologist, to only identify any additional management works where changes have occurred to those specified in the approved *Hedgebank Management Plan Rev J*.
- 1.2 This report will be used to inform and provide information to the 5 year management review.

2.0 ECOLOGICAL MONITORING

2.1 The following methodology and scope of works outlined below have been extracted from the approved Plan.

Pre-construction

2.2 The baseline pre-construction surveys for hedgerows / hedgebanks for Phase 2 were approved in the *Hedgebank Management Plan Rev J*.

Construction

2.3 During construction of adjacent works, protective fencing will be inspected as outlined in the approved *Hedgebank Management Plan Rev J*.

Post-construction

- 2.4 Post-construction ecological monitoring will involve an annual walkover inspection of all hedgerows on site by a suitably qualified Ecologist to ensure the hedgerows are developing in accordance with the approved Plan.
- 2.5 During the walkover survey, the condition of each hedgerow will be inspected to ensure the following key Plan objectives are met:
 - "To ensure the hedgebanks are appropriately managed and maintained for the benefit of new residents;
 - To maintain and enhance the existing nature conservation value of retained hedgebanks."
- 2.6 The ongoing management process will include monitoring and review of the following:
 - Monitoring of newly planted / established shrubs with specific replacement of dead or dying species on a like for like basis;
 - Monitoring of ditches associated with hedgerows, recommendation of ditch clearance to original profile to allow full functionality;
 - Monitoring of hedgerow structure, with all breaches, gaps and leggy sections being noted and recommended for remedial works;
 - Recommendation of laying or coppicing once a hedgerow has progressed to HMC7/8 for the formal five year review.
- 2.7 Appendix A outlines the condition survey sheet.



- 2.8 If post construction monitoring identifies the need for additional remedial management works, i.e. replacement of dead planting on a like for like basis, the landscape contractors will be instructed accordingly.
- 2.9 Changes within the five year formal review shall be amended following agreement with East Devon District Council. A formal review of the *Hedgebank Management Plan* will take place at the beginning of year five, to be completed before the end of year 5 and reviews thereafter should be at subsequent 5 year periods. The *Hedgebank Management Plan* will provide revised objectives and prescriptions for a further period (years 6 to 10 and subsequent five year periods) and will be submitted to and agreed in writing by East Devon District Council.

3.0 2017 MONITORING RESULTS

- 3.1 Due to delayed works within 2016 it was agreed between East Devon District Council (EDDC), Cranbrook Town Council (CTC), the Consortium Site Manager and FPCR Environment and Design Ltd on 14.02.2017 that hedgerow management works will commence the following season between January and February 2018 from year 1 of *Appendix A, Hedgebank Management Plan, Rev J.*
- 3.2 Year 1 monitoring took place in July 2017, prior to the proposed management works in January and February 2018. Monitoring was based on the previously described condition and management of each hedgerow as stated in *Appendix A, Hedgebank Management Plan, Rev J*.
- 3.3 A summary of all comments/amendments is given below in *Table 1*. Additionally, an updated *Appendix A, Hedgebank Management Plan, Rev J* is provided in *Appendix B* of the present report to reflect the results of Year 1 (2017) monitoring. The indicative management regime is represented in *Figures 1 8*.
- 3.4 Comment/amendments were only given if it was felt that the previous classification/management was no longer accurate. No comment was made if it was felt that the previous description was still accurate. Text within *Appendix B* is coded to reflect new changes, with **bold and underlined** text representing new notes, and **striked** text representing outdated/deleted previous notes.

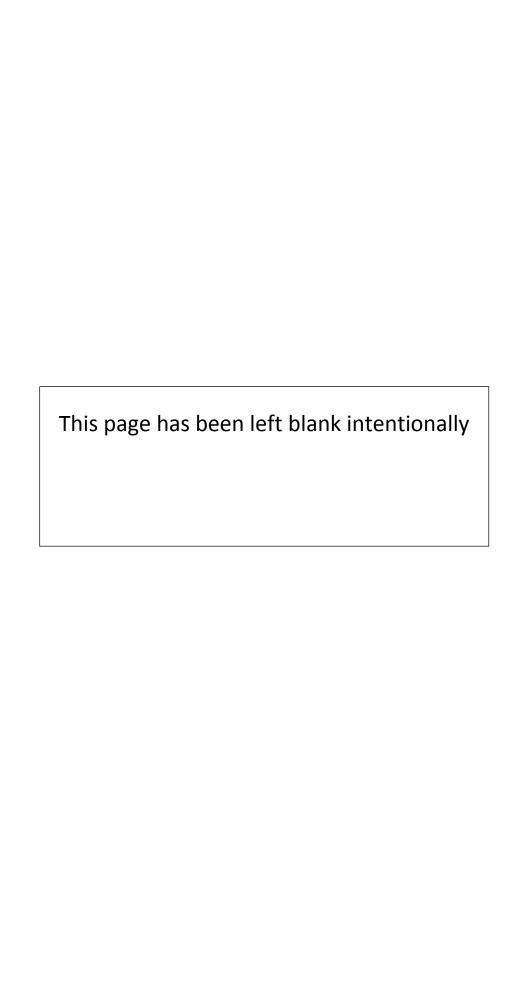
Table 1: Summary of 2017 monitoring

Hedge ref.	HMC cycle	Additional notes
H1	5	Southern section has been removed.
H2	1/7	-
H46	4/5/6	Mid-section adjacent to Northwood Acres play area has been removed and replanted.



Hedge ref.	HMC cycle	Additional notes						
	N.East 1 / mid-section 5 / West 1	N.East: Short and largely gappy section below existing mature trees. Gapping up required with shade tolerant species.						
H49		Central: Short section (c.15m) east of Sweet Coppin still largely intact. Management here through continued mechanical flailing.						
1140		W: Section affected by recent construction. Woody species are limited to occasional <i>Up</i> and <i>Sn</i> on bank and the single <i>Qr</i> specimen. The remainder of the bank is dominated by herbaceous ruderal species, notably nettle and thistle. Here management is required. Grub up or poison undesirable species and gapping up of hedgebank.						
H50	1-5/9	Made ground to south of hedgebank has resulted with H50 being sited on a half-hedgebank. Bank on north bank face to be cast up. Short sections of <i>Ca</i> still present, but gapping up and management of the remainder of hedgebank recommended as per <i>Phase 2 Hedgebank Management Plan</i> .						
H52	5	Recently cast up / layed.						
H54	5/6	-						
H58	7-8/9	Maintain elm/oak section through mechanical cutting until the planting/establishment of NHB17.						
NHB05	-	No planting. Metal fence present instead of hedgerow.						
NHB09	-	No planting. Lawns are laid in front of houses.						
		Grub out or poison undesirable species.						
NHB10	4	Monitoring of each hedgebank to ensure that the details (B) remain as specified.						

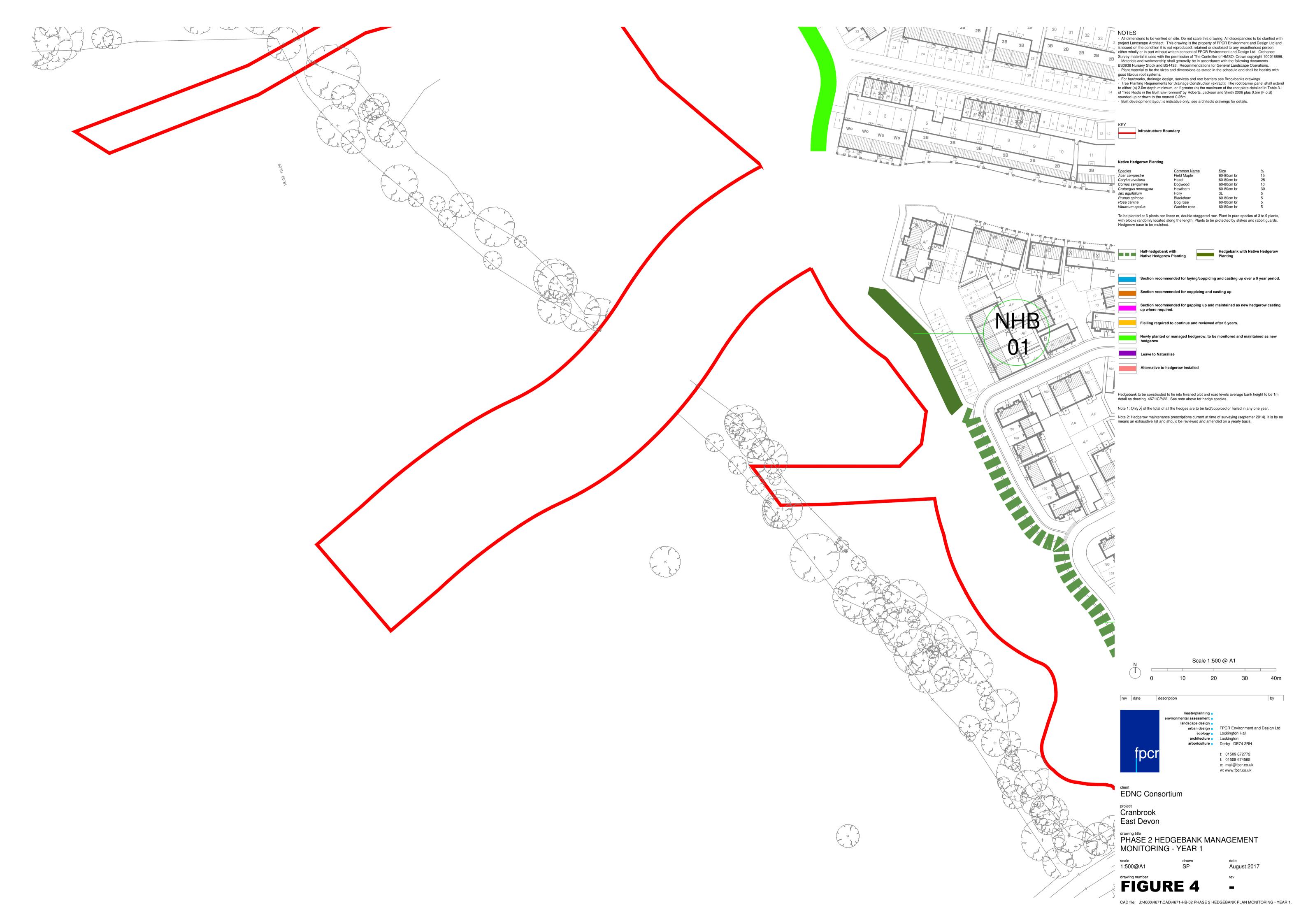
FIGURES

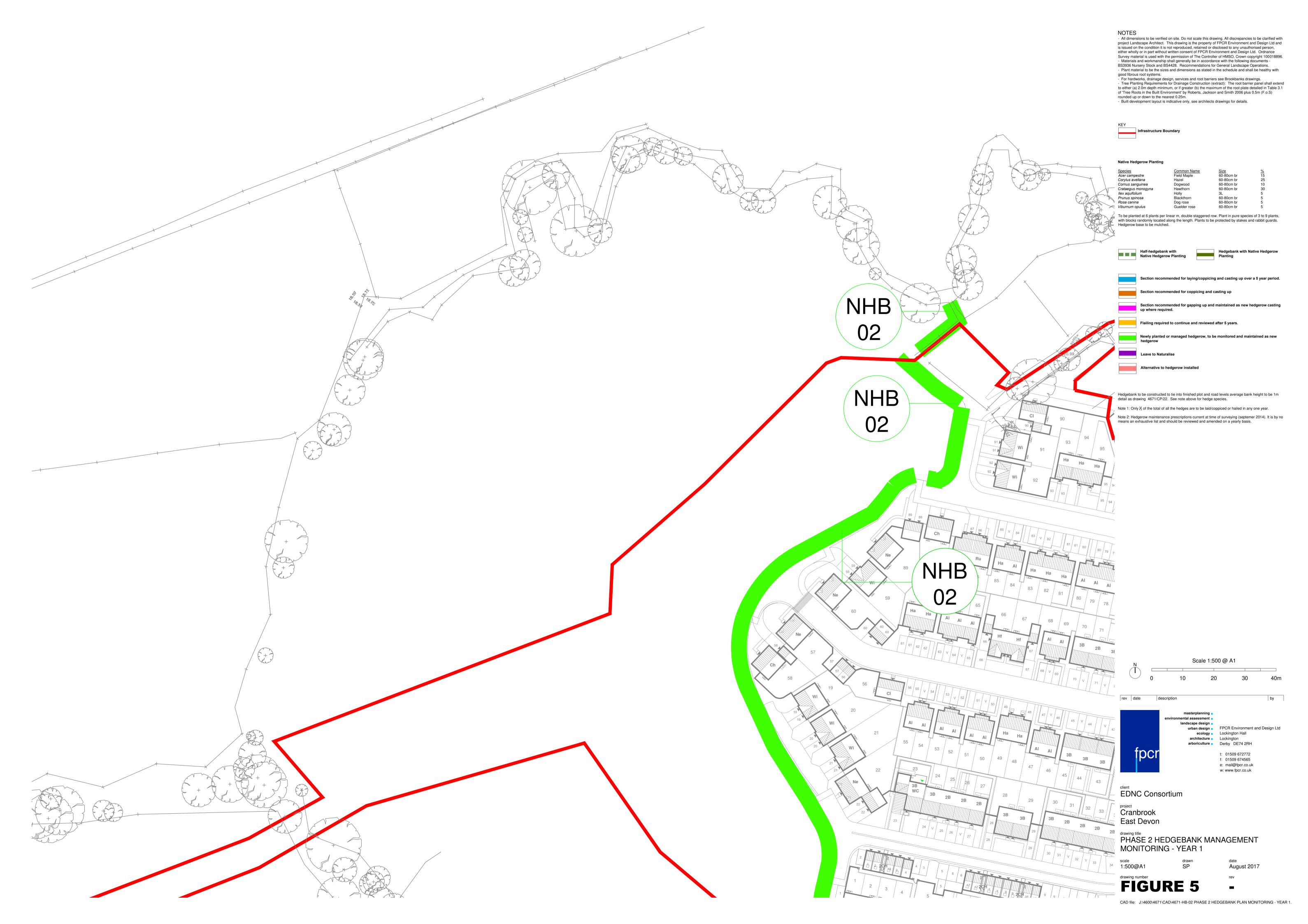


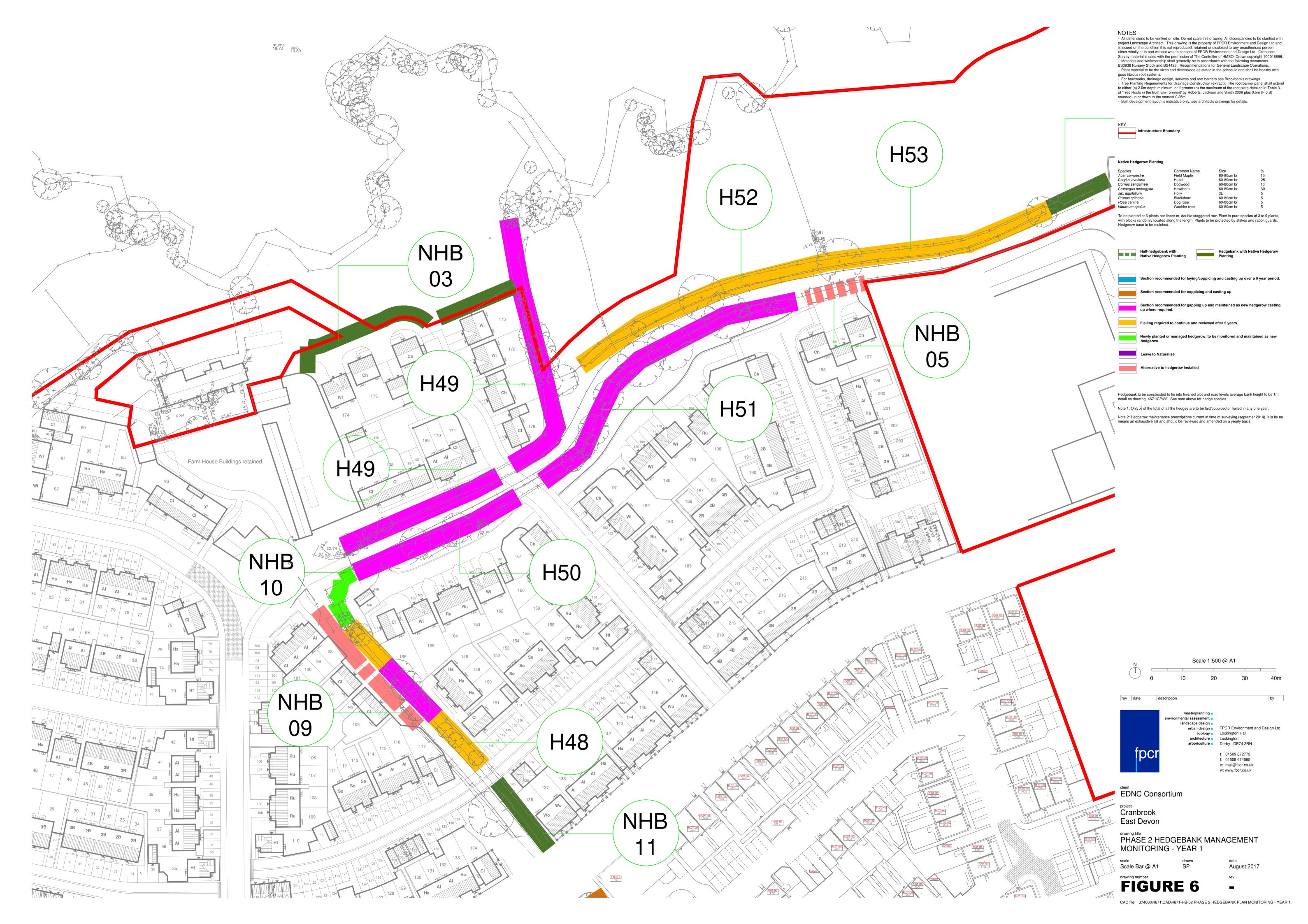


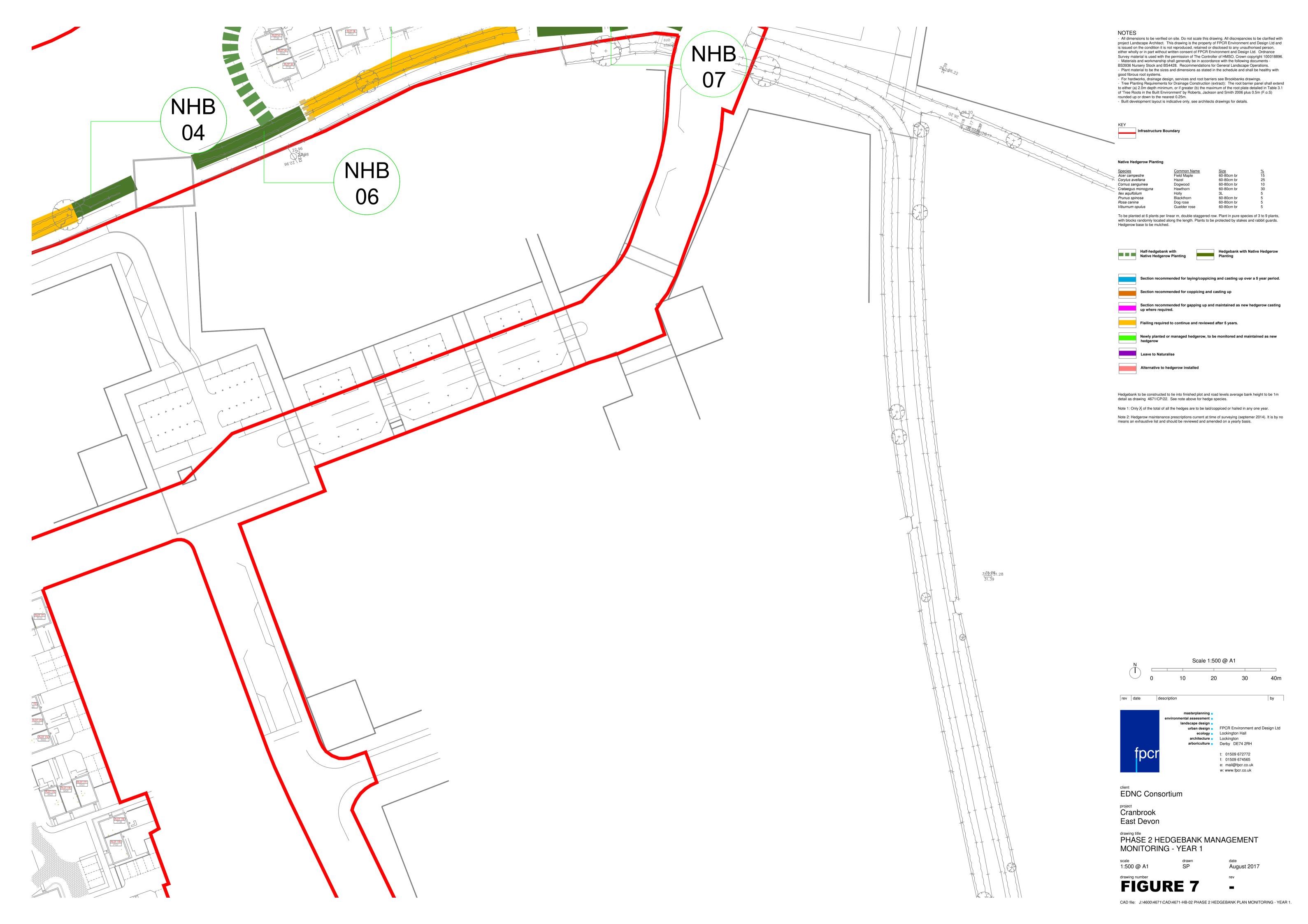














All dimensions to be verified on site. Do not scale this drawing. All discrepancies to be clarified with project Landscape Architect. This drawing is the property of FPCR Environment and Design Ltd and

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- Materials and workmanship shall generally be in accordance with the following documents - BS3936 Nursery Stock and BS4428. Recommendations for General Landscape Operations.

- Plant material to be the sizes and dimensions as stated in the schedule and shall be healthy with good fibrous root systems.

For hardworks, drainage design, services and root barriers see Brookbanks drawings.

Tree Planting Requirements for Drainage Construction (extract): The root barrier panel shall extend to either (a) 2.0m depth minimum, or if greater (b) the maximum of the root plate detailed in Table 3.1 of 'Tree Roots in the Built Environment' by Roberts, Jackson and Smith 2006 plus 0.5m (F.o.S)

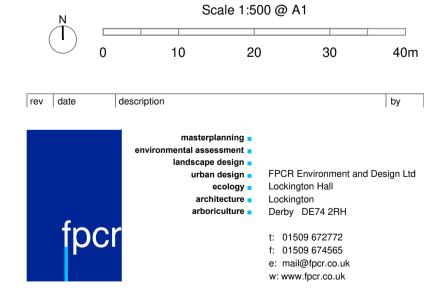
Species	Common Name	Size	<u>%</u>
Acer campestre	Field Maple	60-80cm br	15
Corylus avellana	Hazel	60-80cm br	25
Cornus sanguinea	Dogwood	60-80cm br	10
Crataegus monogyna	Hawthorn	60-80cm br	30
llex aquifolium	Holly	3L	5
Prunus spinosa	Blackthorn	60-80cm br	5
Rosa canina	Dog rose	60-80cm br	5
Viburnum opulus	Guelder rose	60-80cm br	5

To be planted at 6 plants per linear m, double staggered row. Plant in pure species of 3 to 9 plants, with blocks randomly located along the length. Plants to be protected by stakes and rabbit guards. Hedgerow base to be mulched.



Hedgebank to be constructed to tie into finished plot and road levels average bank height to be 1m detail as drawing 4671/CP/22. See note above for hedge species.

Note 2: Hedgerow maintenance prescriptions current at time of surveying (septemer 2014). It is by no means an exhaustive list and should be reviewed and amended on a yearly basis.



drawing title
PHASE 2 HEDGEBANK MANAGEMENT

August 2017

APPENDICES



APPENDIX A: Ecological Survey – Condition Monitoring Sheet

Date:	Surveyor:	Site:	
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Hedge Ref	HMC cycle	Additional Notes (e.g. new planting, ditch, hedgerow structure and proposed remedial works if needed)



APPENDIX B: Initial ten year monitoring programme – Year 1 Monitoring Results (2017)

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To be read in conjunction with Figure 1-8

EXISTING HEDGE SPECIES KEY

Reference	Latin Name	Common Name
Ac	Acer campestre	Field Maple
Cs	Cornus sanguinea	Dogwood
Ca	Corylus avelana	Hazel
CI*	Cupressocyparis leylandii*	Leyland cypress*
Cm	Crataegus monogyna	Hawthorn
Ee	Euonymus europaeus	Spindle
la	Ilex aquifolium	Holly
Lv	Ligustrum vulgare	Privet
Fe	Fraxinus excelsior	Ash
Fs	Fagus sylvatica	Beech
Md	Malus domestica	Domestic Apple
Ps	Prunus spinosa	Blackthorn
Qr	Quercus robur	Oak
Rc	Rosa canina	Dog Rose
<u>Rf</u>	Rubus fruticosus agg.	<u>Bramble</u>
Sn*	Sambucus nigra*	Elder*
Sca	Salix caprea	Goat Willow
Sci	Salix cinerea	Grey Willow
U Spp.	Ulmus Spp.	Elm <i>Spp.</i>
Ug	Ulmus glabra	Wych Elm
Up	Ulmus procera	English Elm
VI	Viburnum lantana	Wayfaring Tree
Vo	Viburnum opulus	Guelder Rose

^{*} Undesirable species to be removed

PROPOSED HEDGE SPECIES

Reference	Latin Name	Common Name	Size	Percentage
Ac	Acer campestre	Field Maple	60-80cm br	15
Cs	Cornus sanguinea	Dogwood	60-80cm br	10
Ca	Corylus avelana	Hazel	60-80cm br	25
Cm	Crataegus monogyna	Hawthorn	60-80cm br	30
la	Ilex aquifolium	Holly	3L	5
Ps	Prunus spinosa	Blackthorn	60-80cm br	5
Rc	Rosa canina	Dog Rose	60-80cm br	5
Vo	Viburnum opulus	Guelder Rose	60-80cm br	5

MANAGEMENT OPERATIONS KEY

Reference	OPERATION
В	Bank creation
Ca	Casting Up
С	Coppicing
D	Ditch Management (note)
Em	Ecological Monitoring
G	Gapping Up
L	Laying
Mc	Mechanical Cutting
Mm	Management Monitoring (Arb. survey not necessary)
Mnp	Maintenance of New Planting
Р	Planting
SF	Stock fencing
SSR	Selective Species Removal
00	Other operations (note)

PROPOSED HEDGEBANK SEED MIX i.e Germinal Seed WFG Hedgerow Shaded (except where orientation/drainage requires alternatives).

Mixture	Percentage	
Latin	Common	
Festuca arundinacea	Tall fescue	25
Festuca rubra spp litoralis	Slender Creeping Red Fescue	25
Cynosurus cristatus	Crested Dogstail	15
Festuca rubra	Strong Creeping Red Fescue	10
Poa nemoralis	Wood Meadow Grass	5
Melilotos alba	White Meliot	3
Agrostemma githago	Corncockle	2.3
Geum urbanum	Wood Avens	2
Silene dioca	Red Campion	2
Chrysanthemum segetum	Corn Marigold	1
Filipendula ulmaria	Meadow Sweet	1
Galium mollugo	Hedge Bedstraw	1
Hypericum perforatum	Perforated St John's Wort	1
Iris pseudacorus	Iris	1
Silene alba	White Campion	1
Torillis japonica	Hedge Parsley	1
Alliara petiolata	Garlic Mustard	0.8
Allium ursinum	Ransoms	0.5
Hyacinthoides non scripta	Bluebell	0.5
Lychnis flos-cuculi	Ragged Robin	0.5
Teucrium scorodonia	Wood Sage	0.5
Digitalis purpurea	Foxglove	0.4
Clematis vitalba	Traveller's Joy	0.3
Stachys officinalis	Betony	0.2

EXISTING HEDGES

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
	' '	Fe, by 500mm	y 500mm	40m Mc	Cut between Jan /Feb		Cut between Jan /Feb		Cut between Jan /Feb		Cut between Jan /Feb		Cut between Jan /Feb		Dense, well managed hedgerow with 0.5m – 1m bank and small ditch running parallel to the road. Flailing required to continue and reviewed after	
		_	Roadside 50mm		40Mm		Report Update			Report Update					Report Update	5 years. Roadside to be cut on a biannual basis. Ditch to be checked on a yearly basis for blockages and cleared of debris following each
H1	40		Standing water at time of	5	40Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	cut. Removed material to be place. Flail back base of hedge on Country Park side to
	10		survey 0.7m width by 0.2m on Country Park side silted dry at time of survey	3	40D	Clear following cut	check	Clear following cut	check	Clear following cut	check	Clear following cut	check	Clear following cut	check	open access to ditch. Ditch to be cleared to form a 0.7m x 0.5m ditch. Excavated material to be cast up on bank. 2017: Southern section has been removed.
		Ca, Ee, Fe, Ps,			42C	Oct/Jan										Short section of hedgerow dominated by blackthorn leading into wooded area running
		Qr, Rc	, RC		42Ca	Oct/Jan as required										parallel to the B3714.Hedgerow recommended for casting up, coppicing and gapping up where required, followed by continued flailing. Monitoring of establishment of new shrubs.
				1	42G	Oct/March as required										Specify replacement of dead or dying species on a like for like basis.
H2	82		None		42 Mnp		Check June / Nov	Check June / Nov	Check June / Nov	Check June / Nov						
					42Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					40m Mc	Cut between Jan /Feb		Cut between Jan /Feb		Cut between Jan /Feb		Cut between Jan /Feb		Cut between Jan /Feb		
				5 <u>7</u>	82Mm		Report Update			Report Update					Report Update	
					82Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Managemen t Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Ac, Cm, Fe, Fs Md, Ps			80C	Oct/ Jan										Well managed, leggy western section formed by hawthorn leading into a wider woody / scrub area that has formed on
		Qr, Rc, Sci, U spp.			80Ca	Oct/Jan as required										roadside slope. Western section to be flailed and reviewed after 5 years. Hedgerow and vegetated slope
				1 - 2	80G	Oct/March as required										recommended for selective coppicing and replanted with native woody species.
					80 Mnp		June/Nov	June/No v	June/No v	June/No v						
Н3	195		None		80Mc							Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	
					115 Mc	Cut between Jan /Feb			Cut between Jan /Feb			Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	
				5	195Mm		Report Update			Report Update					Report Update	
					195Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /Augus t	June /August	June /August	
H44	60	CM, Ps, Rc	None	1 - 2	Refer to NHB 16 for management operations											Thin, short section of hedgerow comprised of blackthorn and bramble growing along a fence line. Hedgerow coppiced and replaced by new hedgebank refer to NHB 16
		Ca, Cm, Ee, Fe, Ps, Qr,			110m Mc	Cut between Jan /Feb			Cut between Jan /Feb			Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	Thick hedgerow running parallel to H46 with numerous mature trees and large bank. The hedgerow is blackthorn dominant with abundant bramble. Contains small
H45	100	Rc	None	5	110Mm		Report Update			Report Update					Report Update	section of thinned hedgerow under mature oak trees. Flailing required to continue and reviewed after 5 years.
					110Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /Augus t	June /August	June /August	Two sections north and south of residential road.
H46	165	Ac, Ca,	Intermittent	1, 4, 5,	200C	Oct/Jan										Long wide managed species rich hedgerow with large bank containing rabbit warrens
1140	103	Cl, Cm,	ditch on Green Lane	6	200Ca	Oct/Jan										and numerous mature trees. The hedgerow

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Managemen t Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Ee, Fe,	side.			as required										can be divided into two distinct sub-section,
		Ia, Ps, Qr, Rc, Sn, Up U spp	750mm x 250mm		200G	Oct/March as required										the northern and southern section. The northern section is blackthorn dominant going into an elm dominant southern section with abundant hazel and bramble.
		Озрр			200Mnp		June/Nov	June/No v	June/No v	June/No v						Hedgerow to be coppiced. Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a
					200Mc				Cut between Jan /Feb			Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	like for like basis. Reinstate ditch at time of construction of Green Lane. 2017: Mid-section adjacent to Northwood
					200Mm		Report Update			Report Update					Report Update	Acres play area has been removed and replanted.
					200Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /Augus t	June /August	June /August	
		Ac, Cm, Ee, Ia,			25Ca	Sept/Oct as required										Thin dense hedgerow dominated by blackthorn and hawthorn with numerous mature oak trees Sections of hedge bank
		Ps, Qr, Rc, U <i>spp</i> .			25G	Sept/Marc h as required										could be cast up depending on requirements, otherwise hedge in fair condition. Flailing required to continue and
				1	25Mc				Cut between Jan /Feb			Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	reviewed after 5 years. Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Shade tolerant species to be planted under existing tree canopies.
H48	65		None		25Mnp		June/Nov	June/No v	June/No v	June/No v						be planted under existing tree canopies.
					40m Mc	Cut between Jan /Feb			Cut between Jan /Feb			Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	
				5	65Mm		Report Update			Report Update					Report Update	
					65Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /Augus t	June /August	June /August	
		Ac, Cm,			145 C	Oct/Jan										Mixed hedgerow which can be divided into
H49	145	Ps, Qr, Rc, Sn,	None	1, 6 and 7	145Ca	Sept/Oct as required										three distinct subsections. Existing structure varies greatly between NE and SW. N section forms a residential/Country

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Managemen t Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Sci, U spp.		N.East 1 / mid- section 5 /	145G	Sept/Marc h as required										Park boundary and W section a Green Lane /Open Space boundary. The northern most section is formed by tall leggy grey willow on a wide low bank, the mid-section is
				West 1	145Mnp		June/Nov	June/No v	June/No v	June/No v						formed by three early mature oak trees with a gappy understory of elder and
					145Mc				Cut between Jan /Feb			Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	hawthorn, the western extent is dominated by elm on a low bank with rabbit warrens. Hedgerow to be coppiced with potential casting up where required. Western extent
					145Mm		Report Update			Report Update					Report Update	of hedgerow requires gapping up following casting up. Monitoring of establishment of new shrubs. Specify replacement of dead or
					145Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /Augus t	June /August	June /August	dying species on a like for like basis. Shade tolerant species to be planted under existing tree canopies. 2017: N.East: Short and largely gappy section below existing mature trees. Gapping up required with shade tolerant species. Mid-section: Short section (c.15m) east of Sweet Coppin still largely intact. Management here through continued mechanical flailing. W: Section affected by recent construction. Woody species are limited to occasional Up and Sn on bank and the single Qr specimen. The remainder of the bank is dominated by herbaceous ruderal species, notably nettle and thistle. Here management is required. Grub up or poison undesirable species and gapping up of hedgebank. Further details of 'gapping up' are provided in Chapter 2.11 of Phase 2 Hedgebank Management Plan.
Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
H50	65	Ca, Cm, Ps, Qr,	None	1,5	65C	Oct/ Jan										Short dense section of hazel along the western section leading into a gappy

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Managemen t Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Sn, Up			65Ca	Oct/Jan as required										outgrown hedge on a shallow eroded bank. Hedgerow recommended to be coppiced, cast up and gapped upand flailed after a
					65G	Oct/March as required										4year period. Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis.
					65Mc				Cut between Jan /Feb			Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	Shade tolerant species to be planted under existing tree canopies.
					65Mnp		June/Nov	June/No v	June/No v	June/No v						2017: Made ground to south of hedgebank has resulted with H50 being sited on a half-hedgebank. Bank on north bank face to be
					65Mm		Report Update			Report Update					Report Update	cast up. Short sections of Ca still present, but gapping up and management of the remainder of hedgebank recommended as
					65Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /August	June /August	June /August	per Phase 2 Hedgebank Management Plan.
		Ac, Ca, Cm, Ee,			95Ca	Oct/Jan as required										Thin species rich hedgerow with shading by mature oak trees. Contains frequent field maple, occasional hazel and spindle on a
		Fe, la, Ps, Qr,			95G	Oct/March as required										shallow bank. Hedgerow recommended for sectional casting up and gapping up where
		Rc, Sn			95Mnp		June/Nov	June/No v	June/No v	June/No v						required, followed by continued flailing. Specify replacement of dead or dying species on a like for like basis. Shade
					95Mm		Report Update			Report Update	Luca				Report Update	tolerant species to be planted under existing tree canopies. To be reviewed after year 5 to assess further coppicing once H52
			Intermittent ditch on Green Lane		95Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /August	June /August	June /August	becomes re-established.
H51	95		side. 750mm x 250mm	1	95m Mc	Cut between Jan /Feb			Cut between Jan /Feb			Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	Reinstate ditch at time of construction of Green Lane
					95Mm		Report Update			Report Update					Report Update	
					95Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /August	June /August	June /August	
					95D	Clear following cut	check	check	Clear following cut	check	check	Clear followin g cut	check	check	Clear followin g cut	

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Managemen t Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
H52	90	Ac, Cm, Ee, Ia, Ps, Qr, Sn, Ug	1m width by 0.25m depth Country Park side intermittent ly No water at time of survey	2/ <u>5</u>	90L 90Ca 90G 90Mnp 90Mm 90D	Jan /Feb Sept/Oct as required Sept/Marc h as required Clear following cut June /August	June/Nov Report Update check June /August	June/No v check June /August	June/No v check June /August	June/No v Report Update Clear following cut June /August	check June /Augus t	check June /August	Clear followi ng cut June /August	check June /August	Report Update check June /August	Outgrown leggy hedgerow with a short layed section and small hedgebank. Connected to H53 from the eastern node. Hedgerow section recommended for casting up and hedgerow laying. Specify replacement of dead or dying species on a like for like basis. Shade tolerant species to be planted under existing tree canopies. Selected species removal of Sn. Ditch extent on northern side of hedge to be dug out to 1m x0.7m approximately. Ditch on Green Lane side to be excavated out to 1m x 0.7m approximately. Cast up excavated material. Reinstate ditch at time of construction of Green Lane 2017: Ditch has been cleared and bank cast up. Maintain through mechanical cutting. Gapping up recommended where appropriate. Further details of 'gapping up' are provided in Chapter 2.11 of Phase 2 Hedgebank Management Plan.
H53	75	Ac, Cm, Ps, Qr, Rc	1m width by 0.25m depth Green Lane side intermittent ly No water at time of survey	5	75m Mc 75G 75Mnp 75Mm 75D	Cut between Jan /Feb Sept/Marc h as required Clear following cut June /August	June/Nov Report Update check June /August	June/No v check June /August	Cut between Jan /Feb June/No v Clear following cut June /August	June/No v Report Update check June /August	check June /Augus t	Cut betwee n Jan /Feb Clear followin g cut June /August	check June /August	check June /August	Cut betwee n Jan /Feb Report Update Clear followin g cut June /August	Well managed but thin hedgerow comprised predominantly of blackthorn and hawthorn, with hedgebank and two mature pedunculate oak trees. Connected to H52 from the western node. Flailing required to continue and reviewed after 5 years to assess further coppicing once H52 becomes re-established. Gap up under trees with suitable shade tolerant species. C, CA, and D at time of construction of Green Lane Ditch extent on northern side of hedge to be dug out to 1m x0.7m approx Ditch on Green Lane side to be excavated out to 1m x 0.7m approx Cast up excavated material.

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Managemen t Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Ac, Ee, Lv, Ps, Qr, Rc, Sca	1m width by 0.25m depth		70m Mc	Cut between Jan /Feb			Cut between Jan /Feb			Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	Dense, well managed hedgerow with three young or semi mature standard tress. Shallow ditch and hedgebank with poor connectivity to surrounding landscape.
H54	70		Green Lane side intermittent	5/ <u>6</u>	70Mm		Report Update			Report Update					Report Update	Flailing required to continue and reviewed after 5 years. Ditch extent on northern side of hedge to be
1134	70		ly No water at time of	3/ <u>u</u>	70Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /August	June /August	June /August	dug out to 1m x0.7m approximately Ditch on Green Lane side to be excavated out to 1m x 0.7m approximately
			survey		70D	Clear following cut	check	check	Clear following cut	check	check	Clear followin g cut	check	check	Clear followin g cut	Cast up excavated material.
		Ac, Cm, Ee, Lv, Ps, Qr, Rc, Up	1.5m width by 500mm		80 Mc	Cut between Jan /Feb		Cut between Jan /Feb		Cut between Jan /Feb		Cut betwee n Jan /Feb		Cut betwee n Jan /Feb		Dense, well managed hedgerow with numerous young and early mature trees, c.1m bank and small ditch running parallel to the unnamed road, adjacent H1.Flailing
H55	60	, sp	depth Roadside	Е	80Mm		Report Update			Report Update					Report Update	required to continue and reviewed after 5 years.
пээ	60		50mm Standing water at time of	5	80Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /August	June /August	June /August	
			survey		80D	Clear following cut	check	Clear following cut	check	Clear following cut	check	Clear followin g cut	check	Clear followin g cut	check	
		Ac, Cm, Ps, Qr,			20Ca	Sept/Oct as required										Western section largely formed by bramble along a fence line with frequent elm (this section is to be replaced by NHB 17.)
		Rc, U spp.		2-3	20G		Sept/Marc h as required									leading into a section of elm and oak on roadside slope. Specify replacement of dead or dying species on a like for like basis. Shade tolerant species to be planted under
H58	20		None	2-3 <u>7-8/9</u>	20Mc				Cut between Jan /Feb			Cut betwee n Jan /Feb			Cut betwee n Jan /Feb	existing tree canopies. 2017: Maintain elm/oak section through mechanical cutting until the
					20Mnp		June/Nov	June/No v	June/No v	June/No v						planting/establishment of NHB17.

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Managemen t Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
					20Mm		Report Update			Report Update					Report Update	
					20Em	June /August	June /August	June /August	June /August	June /August	June /Augus t	June /August	June /August	June /August	June /August	

NEW HEDGE BANKS

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			205B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Half hedgebank detail (A) approx 170 m Full hedgebank detail (B) approx 50m
					205P		Following Planting season									Details dependant on final ground levels hedgebanks will appear seamless between changes in type and should be treated as one unit.
NHB1	205		N/A	4	205 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				2017: No planting.
					205Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					205Mm		Report Update			Report Update					Report Update	
					205Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			255B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Half hedgebank detail (A) approx 210 m Full hedgebank detail (B) approx 45m
					255P		Following Planting season									Details dependant on final ground levels hedgebanks will appear seamless between changes in type and should be
NHB2	255		N/A	4	255 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				treated as one unit. 2017: Grub out or poison undesirable species.
					255Mc							Cut between Jan /Feb			Cut between Jan /Feb	Monitoring of each hedgebank to ensure that the details (B) remain as specified.
					255Mm		Report Update			Report Update					Report Update	
					255Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			75B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (B)
					75P		Following Planting season									2017: No planting.
NHB3	75		N/A	4	75 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				
					75Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					75Mm		Report Update			Report Update					Report Update	
					75Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			20B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (B)
					20P		Following Planting season									2017: No planting.
NHB4	20		N/A	4	20Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				
					20Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					20Mm		Report Update			Report Update					Report Update	
					20Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			20B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (B)
					20P		Following Planting season									2017: No planting. Metal fence present instead of hedgerow.
NHB5	20		N/A	4	20 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				
					20Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					20Mm		Report Update			Report Update					Report Update	
					20Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			40B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (B).
					40P		Following Planting season									2017: No planting.
NHB6	40		N/A	4	40 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				
					40Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					40Mm		Report Update			Report Update					Report Update	
					40Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			40B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (B)
					40P		Following Planting season									2017: No planting.
NHB7	40		N/A	4	40Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				
					40Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					40Mm		Report Update			Report Update					Report Update	
					40Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			200B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Half hedgebank detail (A)
					200P		Following Planting season									2017: No planting.
NHB8	200		N/A	4	200 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				
					200Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					200Mm		Report Update			Report Update					Report Update	
					200Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			45B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (B)
					45P		Following Planting season									2017: No planting. Lawns are laid in front of houses.
NHB9	45		N/A	4	45Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				
					45Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					45Mm		Report Update			Report Update					Report Update	
					45Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			20В	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (B)
					20P		Following Planting season									2017: Grub out or poison undesirable species. Monitoring of each hedgebank to ensure
NHB10	20		N/A	4	20Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				that the details (B) remain as specified.
					20Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					20Mm		Report Update			Report Update					Report Update	
					20Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo		4	25B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (B)
					25P		Following Planting season									2017: No planting.
NHB11	25		N/A		25 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				
					25Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					25Mm		Report Update			Report Update					Report Update	
					25Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			60B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (C)
					60P		Following Planting season									2017: No planting.
NHB12	60		N/A	4	60 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov				
					60Mc							Cut between Jan /Feb			Cut between Jan /Feb	
					60Mm		Report Update			Report Update					Report Update	
					60Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes			
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			25B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (C) 2017: No planting.			
			N/A	4	25P		Following Planting season												
NHB13	25				25 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov							
					25Mc							Cut between Jan /Feb			Cut between Jan /Feb				
					25Mm		Report Update			Report Update					Report Update				
					25Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August				
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			190В	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (C) 2017: No planting.			
				4	190P		Following Planting season									2017. NO planting.			
NHB14	190		N/A		4	4	4	4	190 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov			
					190Mc							Cut between Jan /Feb			Cut between Jan /Feb				
					190Mm		Report Update			Report Update					Report Update				
					190Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August				

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes					
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			150B	On completion of development parcel during suitable conditions															
					150P		Following Planting season														
NHB15	150		N/A	4	150 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov Cut			Cut						
					150Mc		Report			Report		between Jan /Feb			between Jan /Feb Report						
					150Mm	lung /August	Update	June	June	Update	June	June	June	June	Update June						
					150Em	June /August	/August	/August	/August	/August	/August	/August	/August	/August	/August						
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			80B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (B)					
				4	4	4	4	4	4	80P		Following Planting season									2017: No planting.
NHB16	80		N/A							4	4	80 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	·		
					80Mc							Cut between Jan /Feb			Cut between Jan /Feb						
					80Mm		Report Update			Report Update					Report Update						
					80Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August						

Ref.	Length (m)	Hedge Species Ref App B	Ditches (m)	HMC Cycle Point	Management Operations Length (m)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Notes				
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo	N/A		90B	On completion of development parcel during suitable conditions														
					90P		Following Planting season													
NHB17	90			4	90 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov								
					90Mc					_		Cut between Jan /Feb			Cut between Jan /Feb					
					90Mm		Report Update			Report Update					Report Update					
					90Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August					
		Ac, Cs, Ca, Cm, Ia, Ps, Rc, Vo			5B	On completion of development parcel during suitable conditions										Monitoring of establishment of new shrubs. Specify replacement of dead or dying species on a like for like basis. Full hedgebank detail (B)				
				4						5P		Following Planting season								
NHB18	5		N/A		5 Mnp			As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov	As required June/Nov								
					5Mc							Cut between Jan /Feb			Cut between Jan /Feb					
					5Mm		Report Update			Report Update					Report Update					
					5Em	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August	June /August					