

8 August 2014

Land at Higgins Brook, East of Chipping Lane, Longridge

Tree Quality Survey & **Outline Development Implications**

Report Number:

2001_R09_JB_AS

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Section 1: Introduction

- 1.1. Tyler Grange LLP (TG) has been appointed to undertake a Tree Survey and review of Outline Development Implications in relation to the proposed creation of a new residential development (up to 520 dwellings) including affordable housing and housing for the elderly, relocation of Longridge Cricket Club to provide new cricket ground, pavilion, car park and associated facilities, new primary school vehicular and pedestrian accesses, landscaping and public open space on the northern outskirts of Longridge, a town in the Ribble Valley.
- 1.2. The outline application relates to land off Chipping Lane located to the immediate north of the settlement of Longridge, hereafter referred to as the 'site'. The site is centred on Ordnance Survey (OS) grid reference SD 60377 38045 and extends to a total area of 24.8 hectares (61.3 acres).
- 1.3. A detailed application (Ref: 3/2014/0438) for 106 homes / 7.07 hectares has already been submitted by the same developer and is subject to a separate report (TG Ref: 2001/R05), which has been provided to the Local Planning Authority and contains common references to the surveyed trees where relevant.
- 1.4. The work associated with this outline application submission involved collecting data relating to the tree stock, in order to inform the overall development parameters and assess the implication of any associated tree loss.

Tree Survey

- 1.5. The original tree survey was undertaken during January 2014, during which the weather conditions were cold and wet, with a light wind present. The survey was updated and verified during July 2014, during calm and sunny conditions.
- 1.6. No invasive investigations or climbing inspections were necessary to confirm visual or audible signs of defect or debility and no tissue or soil samples were undertaken. Where identified, signs of substantial defects or debility significant to the pre-development context have been recorded.
- 1.7. Tree climbing has been undertaken with reference to the consideration of potential for bats and the results are contained within a separate report.

Survey Methodology

- 1.8. The pre-development survey and assessment was undertaken in accordance with British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction Recommendations' (hereafter BS5837:2012).
- 1.9. In accordance with the above recommendations, the tree survey included all trees within the Site boundary that were over 7cm diameter at breast height (dbh). Topographical survey data was available for the majority of the tree stock; however, some areas of denser tree planting have been approximately placed within groups that form cohesive arboricultural features either aerodynamically, visually, culturally or in biodiversity terms.
- 1.10. The tree survey involved collecting the following data:





- Tree Number / Group Reference;
- Species;
- Height;
- Branch Spread (in metres taken at the four cardinal points);
- Crown Clearance (in metres above the adjacent ground level);
- Age Class;
- Physiological Condition;
- Structural Condition;
- Estimated Remaining Contribution (in years);
- Management Recommendations; and
- Notes.
- 1.11. For further clarification, please refer to the tree survey explanatory notes in Appendix 1.

Tree Categorisation

- 1.12. The quality and value of each tree or group of trees has been recorded by allocating it to one of the four categories below in accordance with BS5837:2012. Categories A, B and C deal with trees that should be a material consideration in the development process and are divided into subcategories that reflect arboricultural, landscape and cultural values. Category U trees are those which would be removed in the short term for reasons connected with their physiological or structural condition. For this reason, they should not be considered in the planning process.
 - Category Grading A: Trees of high quality and value, which are in such a condition as to be able to make a substantial contribution from an arboricultural, landscape or cultural perspective;
 - Category Grading B: Trees of moderate quality and value, which are in such a condition as to make a significant contribution from an arboricultural, landscape or cultural perspective;
 - Category Grading C: Trees of low quality and value, which are currently in adequate condition to remain until new planting could be established or young trees with a stem diameter below 150mm; and
 - Category Grading U: Trees which are in such a condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboricultural management.
- 1.13. The subcategories included within the Cascade Chart for Tree Quality Assessment (1, 2 and 3) are intended to reflect arboricultural, landscape and cultural values respectively. These tree subcategories have equal weight and have been applied in response to professional opinion.
- 1.14. Findings for each of the individual trees and associated groups surveyed are summarised on Plan
 1: Findings of Tree Quality Survey and Root Protection Areas (2001/P38) (Sheets 1 to 5), and contained at the rear of this report and listed individually within the Tree Survey Table at Appendix
 2.



Preliminary Management Recommendations

- 1.15. Any recommendations made for management of the trees (e.g. tree works) prior to the proposed development are not a detailed 'specification' for tree work and should not be considered as such.
- 1.16. These recommendations are proposed on the basis that they are advised and undertaken by a qualified arboricultural contractor working in accordance with best practice as, for instance, embodied in BS3998:2010 Recommendations for Tree Work, or in the European Tree Pruning Guide, published in 2001 by the Arboricultural Association and who must be listed in the Arboricultural Association's Approved Contractors Directory www.trees.org.uk.

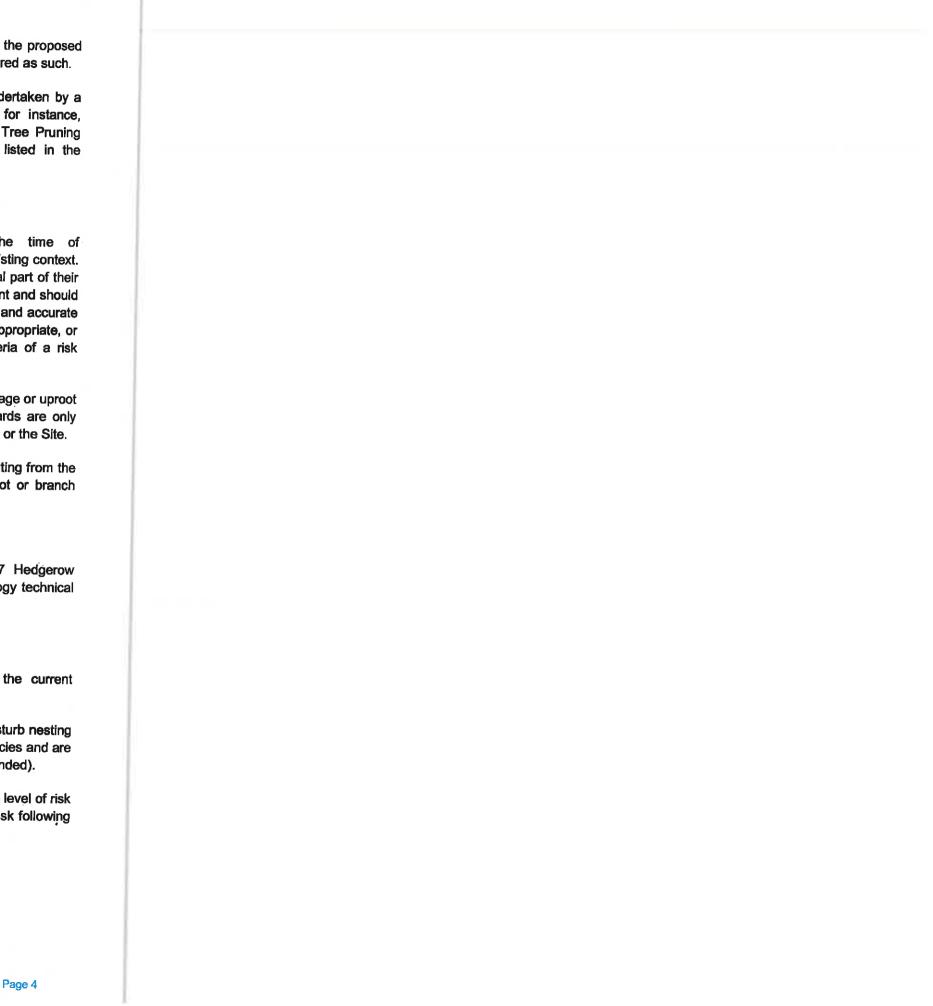
Limitations

- 1.17. The comments made are based on observable factors present at the time of inspection and are based on maximising the trees' safe life expectancy given their existing context. Although the health and stability of trees in the pre-development context is an integral part of their suitability for retention, it must be stressed that this report is not a tree risk assessment and should not be construed as such. While every attempt has been made to provide a realistic and accurate assessment of the trees' condition at the time of inspection, it may have not been appropriate, or possible, to view all parts or all sides of every tree to fulfil the assessment criteria of a risk assessment.
- No tree is entirely safe, given the possibility that exceptionally strong winds could damage or uproot even a mechanically 'perfect' specimen. It is therefore usually accepted that hazards are only recognisable from distinct defects or from other failure-prone characteristics of the tree or the Site.
- 1.19. Assessment of the potential influence of trees upon buildings or other structures resulting from the effects of trees upon shrinkable load-bearing soils or the effects of incremental root or branch growth, are specifically excluded from this report.
- 1.20. All measurements are metric and approximate.
- 1.21. This report does not assess the hedgerows against the provisions of the 1997 Hedgerow Regulations, as this is dealt with specifically within the respective heritage and ecology technical reports.

Un-assessable Risks

- 1.22. Any alteration to the application site or development proposals could change the current circumstances and may invalidate this report and any recommendations made.
- 1.23. The Wildlife and Countryside Act (WCA) 1981 (as amended) makes it an offence to disturb nesting birds or recklessly endanger a bat or its roost. Bats are also a European protected species and are additionally protected under the Conservation (Habitats & c) Regulations 1994 (as amended).
- 1.24. A lack of recommended work does not imply that a tree does not pose an unacceptable level of risk and, likewise, it should not be implied that a tree will present an acceptable level of risk following the completion of any recommended work.





Section 2: Findings of the Tree Survey

Site Description

- 2.1. The site comprises nine pastoral fields separated by generally un-managed agricultural hedgerows with occasional scattered trees, and a cricket pitch formed by amenity grassland and a trimmed hedgerow boundary to the west. Overall, the hedgerows are gappy in places, with some denser and self-seeded vegetation associated with a central watercourse (Higgins Brook).
- 2.2. The site is bordered by residential development and a Sainsbury's supermarket to the south, Chipping Lane to the west and by further pastoral land to the north and east.
- 2.3. Topographically the site has localised undulations, with ground levels rolling gently north-west to south-east from approximately 103m AOD (Above Ordnance Datum) to approximately 120m AOD.
- 2.4. A total of 31 individual trees were surveyed along and 14 groups, as shown on Plan 1: Findings of Tree Quality Survey and Root Protection Areas (2001/P38 to P42) (Sheets 1 to 5), located to the rear of this report.

Planning Context

- 2.5. A data search request in relation to Tree Preservation Orders for the site and locality was submitted to the Council but no response has been received to-date. The consultation response for the detailed application (Phil Johnson Countryside Officer, dated 27th June 2014) stated that the 3 trees fronting Chipping Lane would be inspected further, with a view to placing them under a TPO. At the time this report was produced, the landowner had received no notification to-date, that suggests these trees have been formerly protected.
- 2.6. The site is also located beyond the adjoining Conservation Area.
- 2.7. None of the trees surveyed are contained upon the National Inventory of Ancient Woodland or listed on the Woodland Trust's Ancient / Veteran Tree Database.
- 2.8. Policy protection is in the form of Policy ENV13: Landscape Protection (Ribble Valley Districtwide Local Plan (adopted 1998)); and, Policy DME1: Protecting Trees and Woodland (Core Strategy 2008-2028 A Local Plan for Ribble Valley Regulation 22 Submission Draft (emerging)).
- 2.9. This survey has also been undertaken with acknowledgement of the Ribble Valley Borough Council 'Supplementary Planning Policy for Trees'.

Species Composition

- 2.10. A total of 17 principal species were recorded and these included:
 - Alder (Alnus glutinosa);
 - Ash (Fraxinus excelsior);
 - Sycamore (Acer pseudoplatanus);
 - Hawthorn (Crataegus monogyna);
 - Blackthorn (Prunus spinosa);

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- Crack Willow (Salix fragilis);
- White Willow (Salix alba);
- Pedunculate Oak (Quercus robur);
- Beech (Fagus sylvatica);
- Hazel (Corylus avellana);
- Holly (llex sp.);
- Elder (Sambucus sp.);
- Field Maple (Acer campestre);
- Whitebeam (Sorbus aria);
- Ornamental Cherry (Prunus sp.);
- Birch (Betula pendula); and
- Lawson's Cypress (Chamaecyparis lawsoniana).

Health, Physiological and Structural Condition

2.11. The survey involved ground level examination of the external features of the trees. Growing conditions were noted together with the presence of dead branch wood, die-back and any fungal fruiting bodies or obvious signs of decay. The findings of the survey are summarised in the table below:

Physiological and Structural Condition Poor – 6% Fair-Poor – 10% Fair – 29% Fair-Good – 35% Good – 20%

- 2.12. Of the trees surveyed the majority were found to be in a fair / fair-good good physiological and structural condition. Typical observations recorded the general presence of deadwood and minor dieback in some of the trees, most of which appeared to be age related or as a result of minor limit failure. The Alder within the gappy and defunct hedgerows to the north (G10, G11 and G11a exhibited signs of poorer vitality, with several canopies appearing to have been 'blown-out' and some minor cavities visible.
- 2.13. No serious disease, exudates or fruiting fungal bodies were recorded during the visual survey
- 2.14. Cavities and bat potential has been assessed separately within the Tyler Grange Ecological Assessment report.



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Age Class

2.15. The findings of the survey are summarised below:

Age Class			
Sapling – 3%			
Young - 13%			
Young-Mature – 33%			
Mature – 51%			

- 2.16. The majority of the tree stock (predominantly the hedgerow root stock) can be classified as mature in terms of age class (50-60+ years). Many of the mature trees are associated with field enclosure and ditch alignment.
- 2.17. It should be noted that with a significant proportion of the hedgerow trees being within the final third of their life span, new tree planting and hedgerow supplementation should be considered to provide a continued tree presence as part of longer term management proposals for on-site tree stock.

Category Grading

2.18. The findings of the survey are summarised below:

Category Grading	
Quality Class A - 12%	Quality Class B – 37%
Quality Class C - 49%	Quality Class U - 2%

- 2.19. Of the hedgerow trees surveyed, a large proportion were classified as Category C, considered to be of low to fair value, with the majority of the remaining trees being classified as Category B reflecting the overall moderate quality of the tree stock. Some of the more open grown trees were considered to represent Category A, given the visual presence and relative rarity within this transitional landscape.
- 2.20. The category grades are linked mainly to arboricultural and landscape sub criteria (BS5837:2012 subcategories).

Section 3: Outline Development Implications

Root Protection Areas

- The other purpose of Plan 1 (Sheets 1 to 5) (2001/P38 to P42) is to show the influence that the existing trees have upon adjacent land and upon any future development proposals. The approximate extent of Root Protection Areas (RPAs) have been illustrated to represent the worst case concentric area that should be left undisturbed around any retained tree in order to avoid damage to roots or the rooting environment.
- The RPAs have been calculated in accordance with the methodology set out in BS5837: 2012, using the stem diameter dimensions obtained during the site visit. In terms of the individual trees, T30 (Oak) has the largest theoretical RPA (11.3m radius off-set / 399.8m²).
- 3.3. This should be considered in association with existing above and below ground constraints. Also, the current and ultimate height of any tree needs to be appreciated in terms of its size, dominance, shade and movement in strong winds. Existing and future branch spread must therefore be taken into account as part of the reserved matters and detailed design process.

Impact of Proposed Development & Access Options on the Trees

- 3.4. Given the consideration of the existing agricultural context of the site, it is likely that the proposed outline development parameters will have an impact upon some of the tree stock and hedgerows surveyed (with the possible loss of approximately 445 metres of hedgerow). The wider site to the north will remain largely unaffected by the placement of the relocated cricket pitch and associated ecological mitigation and enhancement areas.
- 3.5. Where possible, detailed design and highways layout should minimise hedgerow loss by utilising existing access points and ditch crossings.
- 3.6. The following implications are predicted in relation to the indicative development layout and access options, as illustrated at **Appendix 3**:

Tree No. / Species	Quality Class	Description of Loss
T1 – Sycamore	A1	Direct conflict with proposed access visibility splay on Chipping Lane.
T2 – Ash	A1	Direct conflict with proposed access visibility splay on Chipping Lane.
T3 – Ash	B1 .	Direct conflict with proposed access visibility splay on Chipping Lane.
G2 – Hawthorn, Blackthorn, Elder and Holly (including taller Ash tree within ditch)	C2	Direct conflict with internal access road and required culvert works associated with the ditch crossing.
G3 - Hawthorn, Blackthorn, Elder and Holly (avoiding larger Oak and Willow)	C2	Proposed internal highway route will try to utilise existing field gaps or breaks in vegetation; however, some additional localised loss of hedgerow is predicted.



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Tree No. / Species	Quality Class	Description of Loss
G5 – Hawthorn dominated	C2	Proposed internal highway route will try to utilise existing field gaps or breaks in vegetation; however, some additional localised loss of hedgerow is predicted.
G12 – Hawthorn and Holly dominated	C2	The internal highway route will try to utilise existing field gaps or breaks in vegetation; however, access is required through G12 in up to 3 locations so localised loss in predicted.
G13 – Scattered Hawthorn	C2	Proposed internal highway route will try to utilise existing field gaps or breaks in vegetation to the north; however, some additional localised loss of hedgerow is predicted.
G14 - Hawthorn and Holly dominated (avoiding pond cluster – T25-T29 and larger Oaks – T30/T31)	C2	The internal highway route will try to utilise existing field gaps or breaks in vegetation; however, access is required through G14 in up to 3 locations so localised loss in predicted.

- The most notable loss relates to the flailed hedgerow along the eastern side of Chipping Lane and three young-mature trees (T1, T2 and T3) removed in order to achieve the proposed highway access and for implementing visibility splays at the principal entry point to the development. A small section of hedgerow to the north will also be lost to a secondary access, but the Sycamore tree could be retained (T12). In the absence of mitigation this would potentially trigger planning polices both within the NPPF and local planning policy ENV 13 which seeks to protect important landscape features including hedges and their associated features.
- 3.8. However, the loss of hedge lengths and individual trees will be compensated by providing new species-rich hedgerow planting within the site totalling approximately 1,264 metres. This seeks to augment retained habitats and enhance connectivity between similar habitats present on adjacent land. Individual light standard and heavy standard native tree planting is also proposed, with tree numbers exceeding 200 across the application area, and with many more areas of whip plantation.
- 3.9. This predicted tree loss and associated compensation/mitigation measures have also been considered within the separate Ecological Assessment (**TG Ref: 2001/R08a**).

Tree Protection Measures

- 3.10. All trees to be retained as part of the development proposals will be protected from unnecessary damage during the construction process. Tree protection on development sites is of paramount importance if they are to be retained successfully. The inevitable stress caused by development near existing trees can, if provision for adequate protection is not made, be a strain that can severely damage the trees or even result in their death.
- 3.11. A full Arboricultural Impact Assessment (AIA) and Arboricultural Method Statement (AMS), detailing measures for tree protection and sensitive working, would be prepared in relation to a fixed layout and the discharge of reserved matters.



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Appendix 1: Tree Survey Explanatory Notes



Appendix 1: Tree Survey Explanatory Notes

Tree Numbers

'T' prefixes have been used to identify individual trees and commence with 'T1'.

'G' prefixes have been used to identify groups of trees.

Species

Species are listed by their common name, both in the schedule and in the report text.

Height and Stem Diameter

Tree heights are measured in metres (m). The stem diameter of single stemmed trees is measured at 1.5m above ground level and given in millimetres (mm). The diameter measurement of multistemmed trees is taken immediately above the root flare.

Crown Spread and Height of Crown Clearance

This is the height above ground in metres of the attachment point of the first significant branch, or the height to which the lowest (living) branch reaches; whichever is the lower. Radial crown spread is measured in metres and is listed for each of the four cardinal points. The canopy shape for individually surveyed trees depicted on the accompanying plans accurately represents the canopy spread as measured on-site.

Age Class

The age of each tree is defined as follows:

- Young within the first third of life expectancy;
- YM Young Mature within the second third of life expectancy;
- M Mature within the last third of life expectancy;
- OM Over mature Tree in decline; and
- V Veteran tree that, by recognised criteria, shows features of biological, cultural or aesthetic value that are characteristic of, but not exclusive to, individuals surviving beyond the typical age range for the species' concerned. For the purpose of this report the term 'ancient tree' and 'veteran tree' are interchangeable.

Physiological and Structural Condition

The physiological or structural condition of each tree is defined as either; good, fair, poor or dead. For each tree, where appropriate, notes on the structural integrity are provided on form, taper, forking habit, storm damage, decay, fungi, pests, etc.

Estimated Remaining Contribution (ERC) in Years

The Estimated Remaining Contribution (ERC) for each tree is based on species and existing and apparent physiological and structural condition of the tree. The ERC may affect the proposed development layout, since the longer the tree is likely to live the greater the contribution it will make and the greater the need for retention.



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TREES FOR R	EMOVAL			W
Category and Definition	Criteria		· · · · · · · · · · · · · · · · · · ·	Identification on Plan
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	 including the other categor loss of compa Trees that are immediate, are Trees infected and/or safety 			
TREES TO BE	CONSIDERED FOR			
Category and Definition	1. Mainly Arboricultural Values	2. Mainly Landscape Values	3. Mainly Cultural Values, including Conservation	Identification on Plan
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue).	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features.	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture).	LIGHT GREEN



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Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remedial defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation.	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality.	Trees with material conservation or other cultural benefits.	MID BLUE
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm	such impaired condition that they do not qualify in higher categories.	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or temporary/transient landscape benefit.	Trees with no material conservation or other cultural value.	GREY



Appendix 2: Tree Survey Table

Tree Survey Table

No	Species	Height (m)	Diameter	Bra	nch Sp	read (ı	m)	Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	Estimated Remaining Contribution (Years)	Category Grading	Preliminary Management Recommendations	Root Protection
			(mm)	N	S	E	W						Craumg	Neconinendations	Area msq (and off- set radius in metres from stems
T1	Sycamore	11.5	490	4.0	5.0	6.0	5.5	2.5	м	Fair - Good	Fair - Good	20 +	A1		(5.88)
Notes	s: Ivy clad, slight e	east bias. Cı	rown lifted to re	oadside.	Minor	deadwo	ood in m	nid canopy.							
T2	Ash	12.0	710	7.0	8.0	9.0	4.0	3.0	М	Fair - Good	Fair – Good	20 +	A1	Monitor union.	(8.52)
Notes	: Roadside tree.	Split at 3.0m	(leader union).	. Two pri	incipal le	eaders.	lvy clad	d, east bias (crown bias a	lso). Deadwo	ood and dieback in lo	ower east crown.				
Т3	Ash	8.0	430	4.0	4.5	6.5	5.0	2.0	Y-M	Fair	Fair	10 – 20	B1	Monitor union.	(5.16)
Notes	: Neat, round can	opy formed b	by two principa	l leaders	S. Union	split fr	om 1.8r	n.							
T4	Ash	Est. 7.0	Est.360	5.0	5.5	6.5	6.0	3.0 +	Y-M	Fair – Good	Fair – Good	20 +	B1		(4.32)
Notes	: Off site, Ivy clad	, slight west b	pias. Three pri	incipal le	aders.	Minor d	leback	in lower canopy.						= 1.41	
31	Hawthorn, Blackthorn, Elder, Holly	Up to 5.5	Average 120	-	-	-	-	N/a	Y – M	Fair – Poor	Fair – Poor	10 – 20	C2	Re-stock and manage.	(1.44)
Notes:	Far side of ditch,	next to Sains	sbury's service	e area.	Typical ι	ınmana	ged he	dgerow.							
		1							T						
5	Alder	8.0	500	5.5	6.0	8.0	2.0	3.0 +	М	Fair	Fair	10 – 20	C2	Monitor rot hole.	(6.10)
lotes:	Eastern canopy b	ias. Basal aı	nd stem cavity	at 90cm	n. Minor	decay	and ba	sal exudates.							
6	Ash	9.0	- 500 - 410 - 400	9.0	10	6.5	7.0	1.5m	м	Fair	Fair	10 – 20	B2	Monitor union.	(7.60)
otes:	Three stems/one	bole. Spraw	rling canopy fo	rmed by	three u	nion spi	lit at bo	le. Lower pruning evide	nt.						
		-													

Species		Stem Diameter	Bran	ch Spr	ead (m	1)	Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	Estimated Remaining Contribution (Years)	Category Grading	Preliminary Management Recommendations	Root Protection Area msq (and off- set radius in
		(mm)	N	S	E	W								metres from stems
Ash	5.5	520	4.5	3.5	7.0	3.0	N/a	М	Fair – Poor	Fair – Poor	10 – 20	C2	Retention optional.	(6.24)
Significant bias t	o north east.	Deadwood a	nd dieba	ack with	small ro	ot holes	in principal leader.							
Ash, Holly, Hawthorn, Blackthorn, Elder	Up to 7.5	Av.180	-	-			N/a	Y – M	Fair	Fair	20 + if managed	C2	Re-stock and manage.	(2.16)
Typical internal I	hedge and di	tch. Unmanag	ged, sca	ttered tre	ees. O	k screer	n. Gappy centre and sig	nificant leanin	g Ash. Most norther	rly Ash conflict wil	th power lines.			
Hawthorn, Blackthorn, Elder, Holly	Up to 5.5m	Av. 100	-	-	i.	-	N/a	М	Fair	Fair	20 +	C2	Re-stock and manage.	(1.20)
Typical ditch/he	edgerow. Ha	wthorn domina	ated. Co	onflicting	i canopi	es in pl	aces. Scattered trees th	nroughout.			+			
Sycamore	7.5	330	5.5	5.5	5.0	6.0	N/a	Y – M	Fair – Good	Fair – Good	20 +	B2		(3.96)
Vigorous uprigh	nt tree on dito	ch-side of water	ercourse	. Tight o	canopy.				, Eur					
Alder	10.0	- 400 -200 -180 -170 -380 -420	7.0	7.0	6.5	7.0	N/a	M	Fair – Good	Fair – Good	20 +	B2	Monitor union	(7.40)
At ditch meand	er. Large mu	ılti stem bole.	Six lead	lers, wea	ak unio	n, sprav	wling canopy. Some pru	ining evident.	Nice tree.					
Elder	9.0	- 340 - 480 - 310	5.0	6.0	6.0	6.0	N/a	M	Fair	Fair	20 +	B2		(6.60)
: Multi stem bole	located on di	tch-side. Som	ne root w	vash and	d crossi	ng lead	ers.							
Alder	9.0	X 8 -180 each	6.5	6.5	5.5	5.5	N/a	М	Fair	Fair	20 +	B2		(5.10)
	Ash, Holly, Hawthorn, Blackthorn, Elder Typical internal I Hawthorn, Blackthorn, Elder, Holly Typical ditch/he Sycamore Vigorous uprigl Alder At ditch meands Elder Multi stem bole	Ash 5.5 Significant bias to north east. Ash, Holly, Up to 7.5 Blackthorn, Elder Typical internal hedge and did 19 to	Ash 5.5 520 Significant bias to north east. Deadwood at Ash, Holly, Hawthorn, Blackthorn, Elder Typical internal hedge and ditch. Unmanage Hawthorn, Blackthom, Elder, Holly Typical ditch/hedgerow. Hawthorn dominated Sycamore 7.5 330 Vigorous upright tree on ditch-side of water Alder Alder 10.0 -400 -200 -180 -170 -380 -420 At ditch meander. Large multi stem bole. Elder 9.0 -340 -480 -310 Multi stem bole located on ditch-side. Some Alder 9.0 X 8	Ash 5.5 520 4.5 Significant bias to north east. Deadwood and diebate Ash, Holly, Hawthorn, Blackthorn, Elder Typical internal hedge and ditch. Unmanaged, scathawthorn, Blackthorn, Elder, Holly Typical ditch/hedgerow. Hawthorn dominated. Color Sycamore 7.5 330 5.5 Vigorous upright tree on ditch-side of watercourse Alder At ditch meander. Large multi stem bole. Six leads 1.340 - 340 - 340 - 340 - 340 - 310 Multi stem bole located on ditch-side. Some root was 1.350 Alder 9.0 X 8 6.5	Ash 5.5 520 4.5 3.5 Significant bias to north east. Deadwood and dieback with Ash, Holly, Hawthorn, Blackthorn, Elder Typical internal hedge and ditch. Unmanaged, scattered to Typical ditch/hedgerow. Hawthorn dominated. Conflicting Sycamore 7.5 330 5.5 5.5 Vigorous upright tree on ditch-side of watercourse. Tight of the Adder 10.0 -200 -180 -170 -380 -420 At ditch meander. Large multi stem bole. Six leaders, we all the Adder 9.0 -340 -480 -310 5.0 6.0 -310 Multi stem bole located on ditch-side. Some root wash and Alder 9.0 X 8 6.5 6.5 6.5	Ash 5.5 520 4.5 3.5 7.0 Significant bias to north east. Deadwood and dieback with small roughly, Hawthorn, Blackthorn, Elder Typical internal hedge and ditch. Unmanaged, scattered trees. Of Hawthorn, Blackthorn, Elder, Holly Typical ditch/hedgerow. Hawthorn dominated. Conflicting canopidately and the state of watercourse. Tight canopy. Vigorous upright tree on ditch-side of watercourse. Tight canopy. Alder 10.0 -400 -200 7.0 7.0 6.5 At ditch meander. Large multi stem bole. Six leaders, weak union. Elder 9.0 -480 -310 5.0 6.0 6.0 Multi stem bole located on ditch-side. Some root wash and crossing and the state of the	Ash 5.5 520 4.5 3.5 7.0 3.0 Significant bias to north east. Deadwood and dieback with small rot holes Ash, Holly, Hawthorn, Blackthorn, Elder Typical internal hedge and ditch. Unmanaged, scattered trees. Ok screen Hawthorn, Blackthom, Elder, Holly Typical ditch/hedgerow. Hawthorn dominated. Conflicting canopies in place of watercourse. Tight canopy. Av. 100 Vigorous upright tree on ditch-side of watercourse. Tight canopy. Alder 10.0 200 7.0 7.0 6.5 7.0 At ditch meander. Large multi stem bole. Six leaders, weak union, sprant Alder 9.0 X8 6.5 6.5 5.5 5.5 Multi stem bole located on ditch-side. Some root wash and crossing leader.	Ash 5.5 520 4.5 3.5 7.0 3.0 N/a Significant bias to north east. Deadwood and dieback with small rot holes in principal leader. Ash, Holly, Hawthorn, Blackthorn, Elder Typical Internal hedge and ditch. Unmanaged, scattered trees. Ok screen. Gappy centre and signed through the statement of the	Class	Ash 5.5 520 4.5 3.5 7.0 3.0 N/a M Feir Poor Significant bias to north east. Deadwood and dieback with small rot holes in principal leader. Ash, Holly, Hawthorn, Blackthorn, Elder Typical internal hedge and ditch. Unmanaged, scattered trees. Ok screen. Gappy centre and significant leaning Ash. Most northe Blackthorn, Elder, Holly Typical ditch/hedgerow. Hawthorn dominated. Conflicting canoples in places. Scattered trees throughout. Sycamore 7.5 330 5.5 5.5 5.0 6.0 N/a Y - M Fair Good Vigorous upright tree on ditch-side of watercourse. Tight canopy. Alder 10.0 -400 7.0 7.0 6.5 7.0 N/a M Fair Good At ditch meander. Large mutit stem bole. Six leaders, weak union, sprawling canopy. Some pruning evident. Nice tree. Elder 9.0 -340 5.0 6.0 6.0 N/a M Fair Multi stem bole located on ditch-side. Some root wash and crossing leaders. Alder 9.0 X 8 6.5 6.5 5.5 5.5 N/a M Fair	Significant bias to north east. Deadwood and dieback with small not holes in principal leader. Ash	Specificate Section Condition Cond	Clearance (m) Clearance (m	Species Present Pres

No G9	Species	Height	Stem	Bran	nch Sp	read (r	η)-	Height of Crown	Age	Physiological	Structural	Estimated Remaining	Category	Preliminary Management	Root Protection
G9a		(m)	Diameter (mm)	N	S	E	W	Clearance (m)	Class	Condition	Condition	Contribution (Years)	Grading	Recommendations	Area msq (and of set radius in
				-	-	-	-								metres from stem
G4	Hawthorn,	Up to	Av.80					N/a	YM – M	Fair	Fair	10 – 20	C2	Manage and re-stock	(0.96)
	Elder Blackthorn, Holly	5.0												Manage and Te-Stock	(0.90)
Notes:	Slightly narrower	hedge and	shallow ditch.	Domina	ated by	Hawtho	m, Elde	r, Blackthorn and forming	g typical enclo	sure. One taller ha	wthorn – 4 stem a	at 160 dbh to east.			
G5	Hawthorn, Blackthorn, Elder	Up to 5.0	Av. 90	-	-	-	-	N/a	YM – M	Fair	Fair	10 – 20	C2	Manage and re-stock.	(1.08)
Notes:	As G.4 – typical h	edgerow ar	nd ditch enclos	ure. Ha	awthorn	domina	ted. Sli	ghtly denser, previously	managed. De	ecent low level scre	en. Gaps at eith	er end.			
3 6	Birch, Cypress, Sorbus, Cherry, Field Maple	Up to 10.5	Max. 210					N/a	Y-YM	Fair Poor	Fair – Poor	20 +	C2		(1.32/2.52)
67	Ash, Willow, Hawthorn, Blackthorn	Up to 11.5	Max. 360	-	-	-	-	N/a	М	Fair	Fair	20 +	C2		(4.08)
lotes:	Dry depression g	roup domina	ated by double	stemm	led matu	ure Ash	with so	me visible knot holes.							
	Hawthom, Alder, Holly	Up to 7.5	Max. 120	-	-	-	-	N/a	м	Fair	Fair	20 +	C2	Management required.	(1.44)
otes:	Typical enclosure v	vith some g	aps. Would re	espond	well to	on-going	g manag	gement.							
9	Willow, Ash,	Up to	Max. 410	-	-	-	-	N/a	T.,	F					
9a	Hawthorn, Blackthorn	11.5	TIV					IWa	M	Fair	Fair	20 +	C2		(4.92/3.72)
J.	ĺ											1			1
Ana - 1	2	. ,										oot wash or damage from grazing			

lo	Species	Height (m)	Stem Diameter	Bran	ch Spr	ead (m	1)	Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	Estimated Remaining Contribution (Years)	Category Grading	Preliminary Management Recommendations	Root Protection Area msq (and off- set radius in
		(44)	(mm)	N	S	E	W								metres from stems
610	Hawthorn, Alder, Ash, Beech	Up to 8.5	Max. 210	-	-	-	-	N/a	M	Fair	Fair	20 +	C2	Re-stock and manage	(2.52)
otes:	Alder dominate	ed gappy hedg	gerow.												
311 311a	Hawthorn, Alder, Ash	Up to 9.5	Max. 330	-	-	-		N/a	М	Fair	Fair	20 +	C2	Re-stock and manage	(3.60)
Notes:															
	Ash	9.5	380	4.5	5.0	5.0	6.0	1.9	YM	Fair-Good	Fair-Good	20+	B1	-	65.3 (4.60)
Notes:	Forks with wea	k union at 2.	2m. Bias to we	est and o	cavity w	ound to	east. F	runed back in associati	on with cricke	t club pitch. Minor d	eadwood in lower	r canopy.			
T13	Oak	11.0	560	7.5	8.0	8.0	8.5	N/a	M	Good	God	20+	A1	-	141.9 (6.70)
			į									-			
Notes	Nice hedgerow	tree with rou	nded canopy,	growing	at ditch	junctio	٦.								
T14	Ash	8.0	- 320 - 230	4.5	7.0	6.5	6.0	N/a	YM	Fair	Fair	20+	B1	-	48.8 (3.90)
Notes	: Ditch side tree	with neat cor	npact canopy,	formed	by two le	eaders	from bo	le. Average vitality and	some deadwo	ood at base.					11 31
T15	Ash	7.5	- 190 - 260 - 320	5.5	4.0	6.5	4.0	2.0+	M	Fair-Poor	Fair-Poor	10-20	C1	Retention optional	64.8 (4.50)
Notes	: North west bias	s, multi-stem		ide with	crossing	ateral	s and n	ninor decay.							
T16	Ash	7.0	930 bole	6.0	6.0	6.5	6.0	N/a	YM	Fair-Poor	Fair-Poor	10-20	C1	Monitor cavity	271.8 (9.30)
Notes	Ditch side tree	with multi-ste	em bole and sp	orawling	canopy	. Basal	cavity	evident but no notable de	ecay. Some o	deadwood and dieba	ck in lower canop	by.	11-11-11		
11000			Av. 90			1	Τ.	N/a	М	Fair	Fair	10-20	C2	Re-stock and mange	(1.10)

No	Species	Height (m)	Stem Diameter	Bra	nch Sp	oread (I	m)	Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	Estimated Remaining Contribution (Years)	Category Grading	Preliminary Management Recommendations	Root Protection Area msq (and off-
			(mm)	N	S	E	W						Ordaning	Tresoninion dations	set radius in metres from stems
T17	Willow	14.0	780	7.0	5.5	7.5	6.5	3.0+	M	Good	Good	20+	A1	-	275.3 (9.40)
Notes	: Taller tree with w	esterly bias (prowing at edg	e of po	nd.										
T18	Willow	12.5	480	5.5	6.5	5.5	6.0	3.0+	М	Fair-Good	Fair-Good	20+	B1		104.2 (5.80)
Notes	: Easterly bias.														
T19	Willow	13.0	500	6.0	7.0	7.0	6.6	201	T N	15:10	1 =				
110	VV IIIOVV	15.0	300	0.0	7.0	7.0	5.5	3.0+	М	Fair-Good	Fair-Good	20+	B1	-	113.1 (6.00)
Notes:	South easterly bi	as and good	vitality overall	, althou	gh cano	ppy com	presse	d to the west.							
T20	Willow	12.0	680	5.5	6.0	8.5	3.0	3.0+	М	Fair-Good	Fair-Good	20+	B1	Monitor cavity	209.2 (8.20)
Notes:	Significant south	easterly bias	and stem cav	rity.											
T21	Willow	14.0	810	6.0	6.5	7.0	6.5	3.0+	М	Good	Good	20+	A1	-	296.9 (9.70)
Notes:	Upright tree with	good form ar	nd vitality.												
Г22	Willow	11.5	280	4.0	3.0	3.0	3.5	2.5	М	Fair	Fair	10-20	04		
					0.0	0.0	0.0	2.0	lvi	Fall	ган	10-20	C1	Retention optional	35.5 (3.40)
Notes:	Split stem and cro	ssing lateral	S.							18					
Г23	Willow	9.5	330	4.5	6.5	6.0	3.5	2.00	M	Fair	Fair	10-20	C1	Retention optional	49.3 (4.00)
Votes:	Significant norther	rly bias.													
24	Oak	8.0	560	7.0	7.0	70	0.0	100	L						
	Val	0.0	550	7.0	7.0	7.0	0.0	3.0+	М	Good	Good	20+	A1	•	141.9 (6.10)
jutes.	Main stem has we	sterly hias	Nice rounded	canony			1 10								

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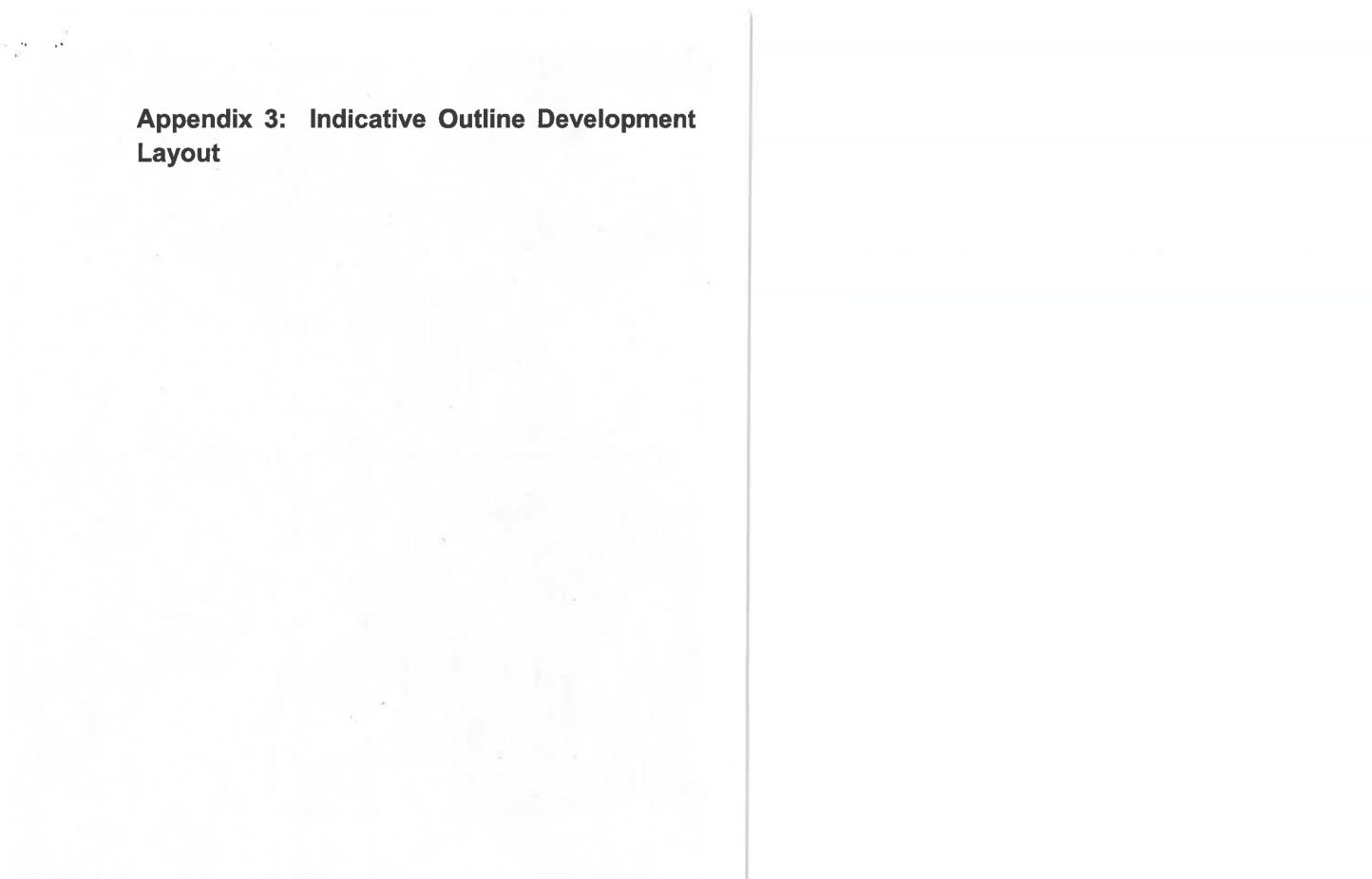
No	Species	Height (m)	Stem Diameter	Bran	ich Spr	ead (n	n)	Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	Estimated Remaining Contribution (Years)	Category Grading	Preliminary Management Recommendations	Root Protection Area msq (and off- set radius in
			(mm)	N	S	E	W								metres from stems
Γ25	Ash	7.0	520	5.5	5.0	7.0	6.0	3.0+	М	Good	Good	20+	A1	-	122.3 (6.20)
votes:	Nice rounded car	nopy growir	ng on side of w	ret ditch	. Two pr	incipals	leader	rs fork at 2.8m.		- 11 1					
313	Hawthorn	6.0	Av. 180	-	-	-	-	N/a	М	Fair	Fair	10-20	C2	Re-stock and manage	(2.20)
Notes	: Rather scattered	/ defunct h	edgerow associ	ciated w	ith shall	ow ditcl	n. Dea	d tree to north				7777			
G14	Hawthorn Holly	Up to 5.5	Av. 90	-	Ţ -	-	-	N/a	M	Fair	Fair	10-20	C2	Re-stock and mange	(1.10)
Notes	: Hedge associate	ed with sligh	tly deeper sec	tion of d	litch. Sir	ngle rov	v, rathe	r gappy in places albeit v	with some pre	vious management e	evident.				
T25a	Ash	8.5	410	6.0	6.5	6.0	6.5	3.0+	M	Fair	Fair	10-20	B1	-	76.1 (4.90)
Notes	Edge of pond tree	e with uprig	ht form and fai	7.0	y vitality.	3.0	diebac	k in lower canopy and de	eadwood at ba	Fair-Poor	Fair-Poor	10-20	C1	Major cavity – monitor	95.7 (5.50)
Notes	: North easterly big	as, with han	ging deadwoo	nd and m	najor ste	m cavit	y.	P.							
T27	Oak	8.0	520	5.5	6.0	5.5	5.0	3.0+	М	Fair-Poor	Fair-Poor	10-20	C1	Monitor cavity	122.3 (6.20)
	: Dead lateral bran	nch and mir	or cavity. Ret	ain in fa	vour of	Г26.									
Notes							1	3.0+	М	Fair-Poor	Fair-Poor	10-20	C1	Retention optional	43.5 (3.70)
Notes T28	Alder	6.0	310	3.0	4.5	3.0	3.0	3.01					İ		1
T28								urse canopy and souther							
T28										-		-	U	=	

		(mm)					Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	Estimated Remaining Contribution (Years)	Grading Category	Preliminary Management Recommendations	Root Protection Area msq (and off-
ماء أ			N	S	E	W	•							set radius in metres from stems
ık	7.0	940	6.0	6.5	7.5	7.0	3.0+	M	Fair	Fair	20+	B1	Monitor stem decay	399.8 (11.30)
sterly bias, spraw	vling canor	by associated	with exi	sting ga	iteway.	Rather	stunted canopy but large	central stem	. Southerly lateral bi	ranch previously	removed. Some minor decay with	in main stem.		
ık	8.5	710	7.0	6.0	8.0	6.5	3.0+	М	Fair	Fair	20+	B1	Monitor	228.1 (8.50)
nificant easterly l	bias. Som	e minor decay	y and lea	ader un	ion (@3	3.2m). D	Peadwood in mid canopy	and dieback	in easterly lateral bra	anch.				
k	8.0	560	6.5	8.0	6.0	5.0	3.0+	М	Fair-Good	Fair-Good	20+	A1	-	141.9 (6.70)
ge tree on ditch s	side near e	existing culvert	t exit. P	artly sta	ag-head	led, with	some lower branch dieb	ack and som	e fused lateral branc	hes.				
ni	ficant easterly	ficant easterly bias. Som	8.5 710 ficant easterly bias. Some minor decay 8.0 560	8.5 710 7.0 ficant easterly bias. Some minor decay and le	8.5	8.5 710 7.0 6.0 8.0	8.5 710 7.0 6.0 8.0 6.5 ficant easterly bias. Some minor decay and leader union (@3.2m).	8.5	8.5	8.5 710 7.0 6.0 8.0 6.5 3.0+ M Fair ficant easterly bias. Some minor decay and leader union (@3.2m). Deadwood in mid canopy and dieback in easterly lateral bra 8.0 560 6.5 8.0 6.0 5.0 3.0+ M Fair-Good	8.5 710 7.0 6.0 8.0 6.5 3.0+ M Fair Fair ficant easterly bias. Some minor decay and leader union (@3.2m). Deadwood in mid canopy and dieback in easterly lateral branch.	8.5	ficant easterly bias. Some minor decay and leader union (@3.2m). Deadwood in mid canopy and dieback in easterly lateral branch. 8.0 560 6.5 8.0 6.0 5.0 3.0+ M Fair-Good Fair-Good 20+ A1	8.5 710 7.0 6.0 8.0 6.5 3.0+ M Fair Fair 20+ B1 Monitor

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Plans

Plan 1: Findings of Tree Quality Survey & Root Protection Areas (Sheet 1 of 5) (2001/P38 August 2014)

Plan 1: Findings of Tree Quality Survey & Root Protection Areas (Sheet 2 of 5) (2001/P39 August 2014)

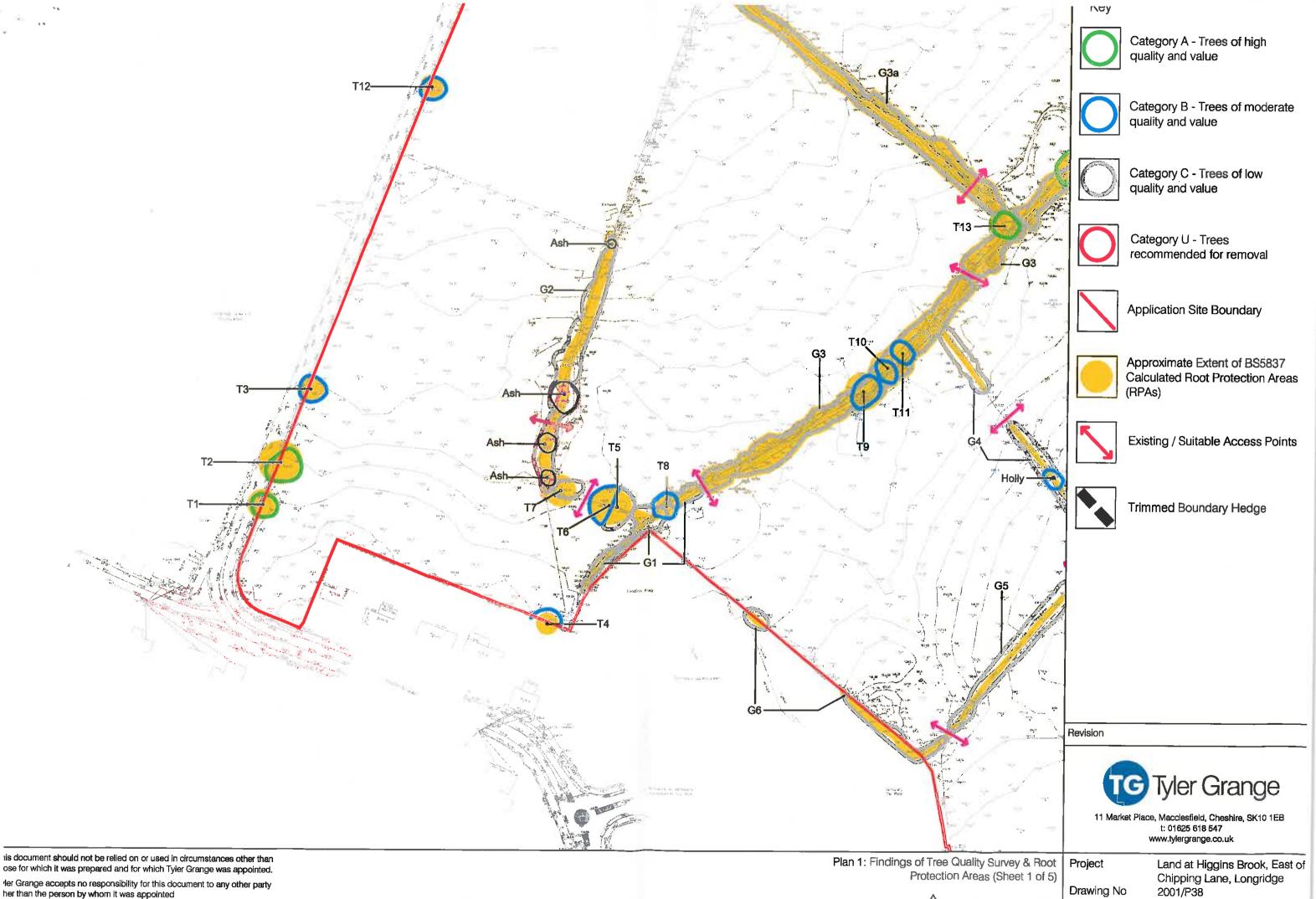
Plan 1: Findings of Tree Quality Survey & Root Protection Areas (Sheet 3 of 5) (2001/P40 August 2014)

Plan 1: Findings of Tree Quality Survey & Root Protection Areas (Sheet 4 of 5) (2001/P41 August 2014)

Plan 1: Findings of Tree Quality Survey & Root Protection Areas (Sheet 5 of 5) (2001/P42 August 2014)

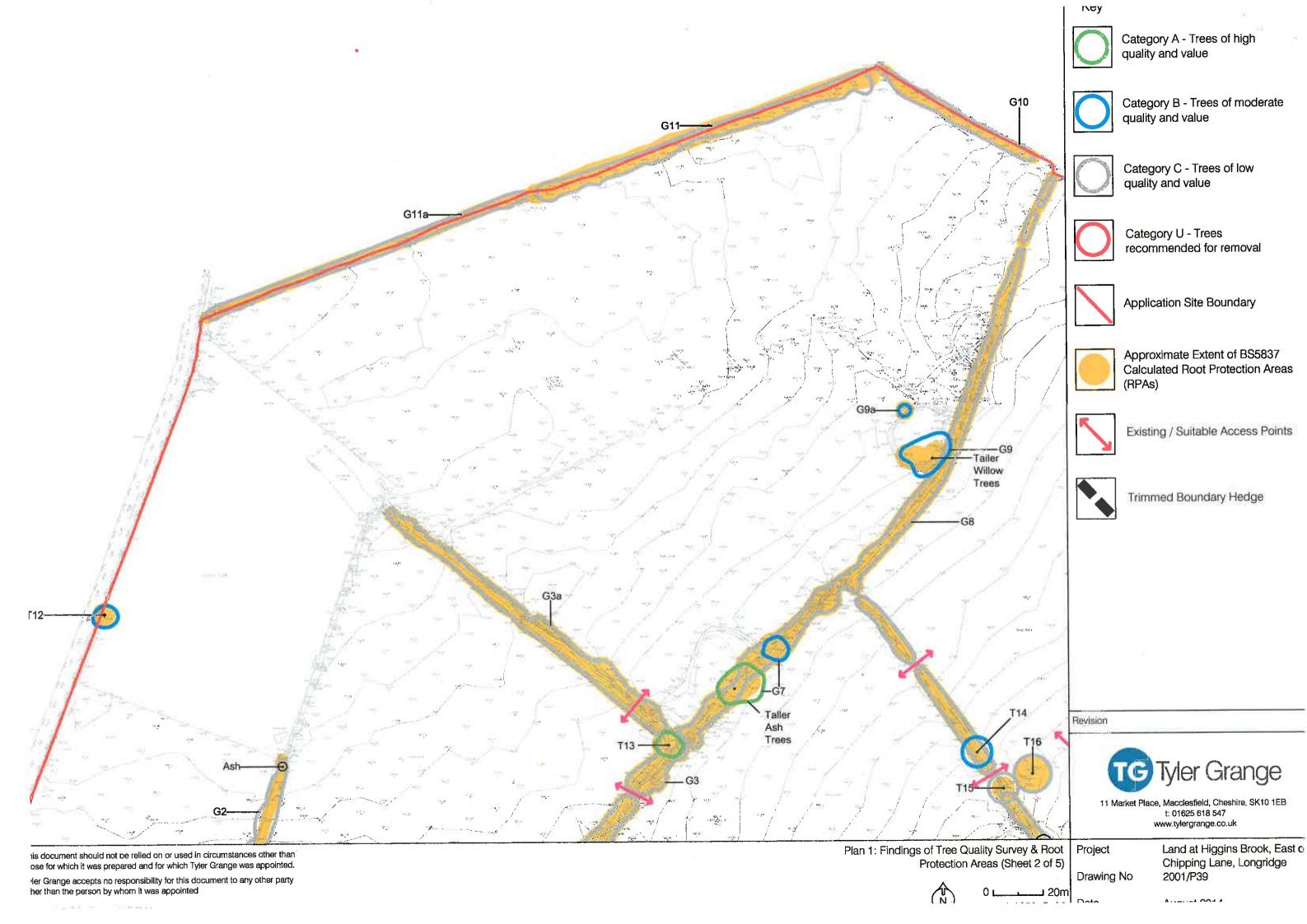


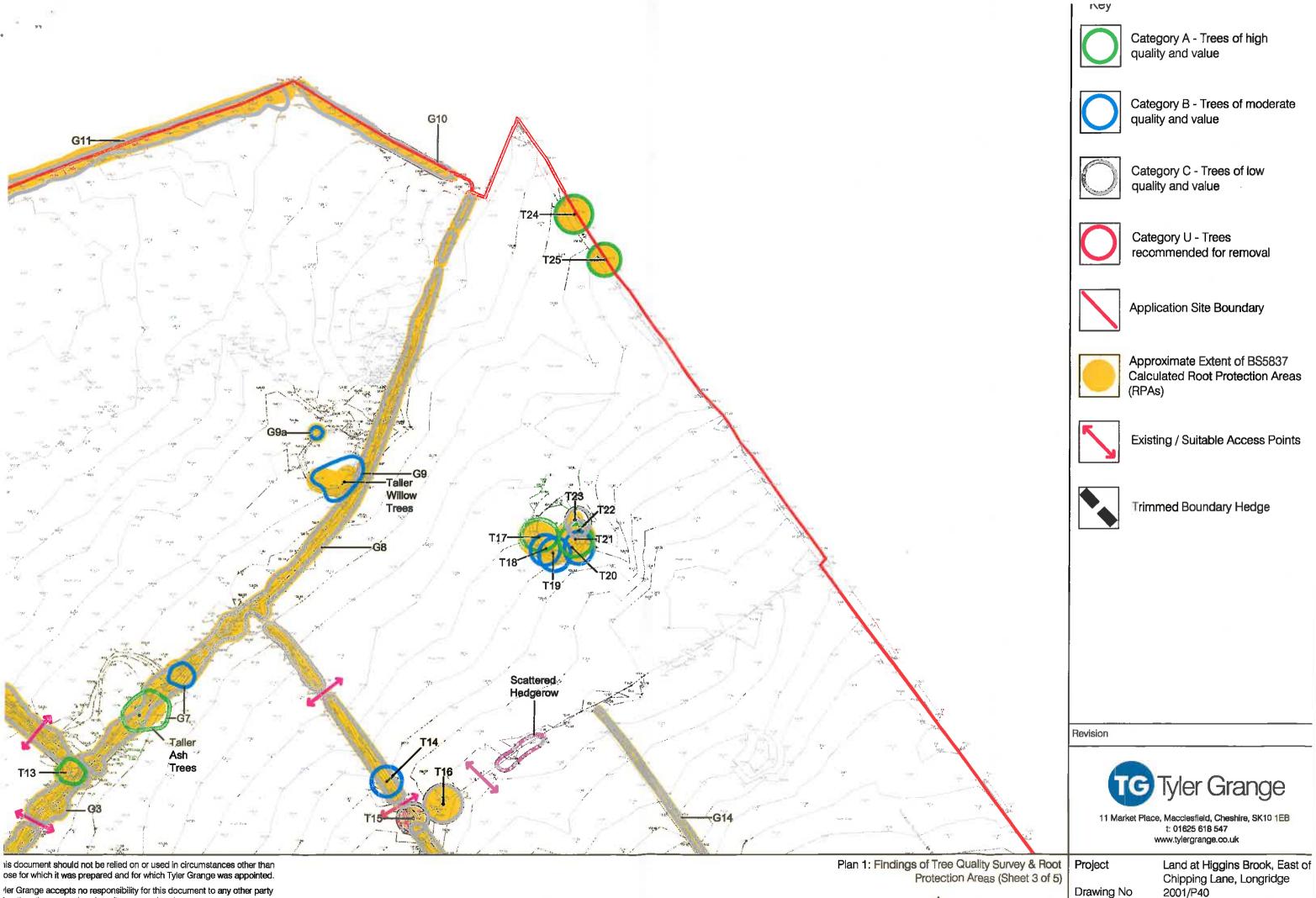
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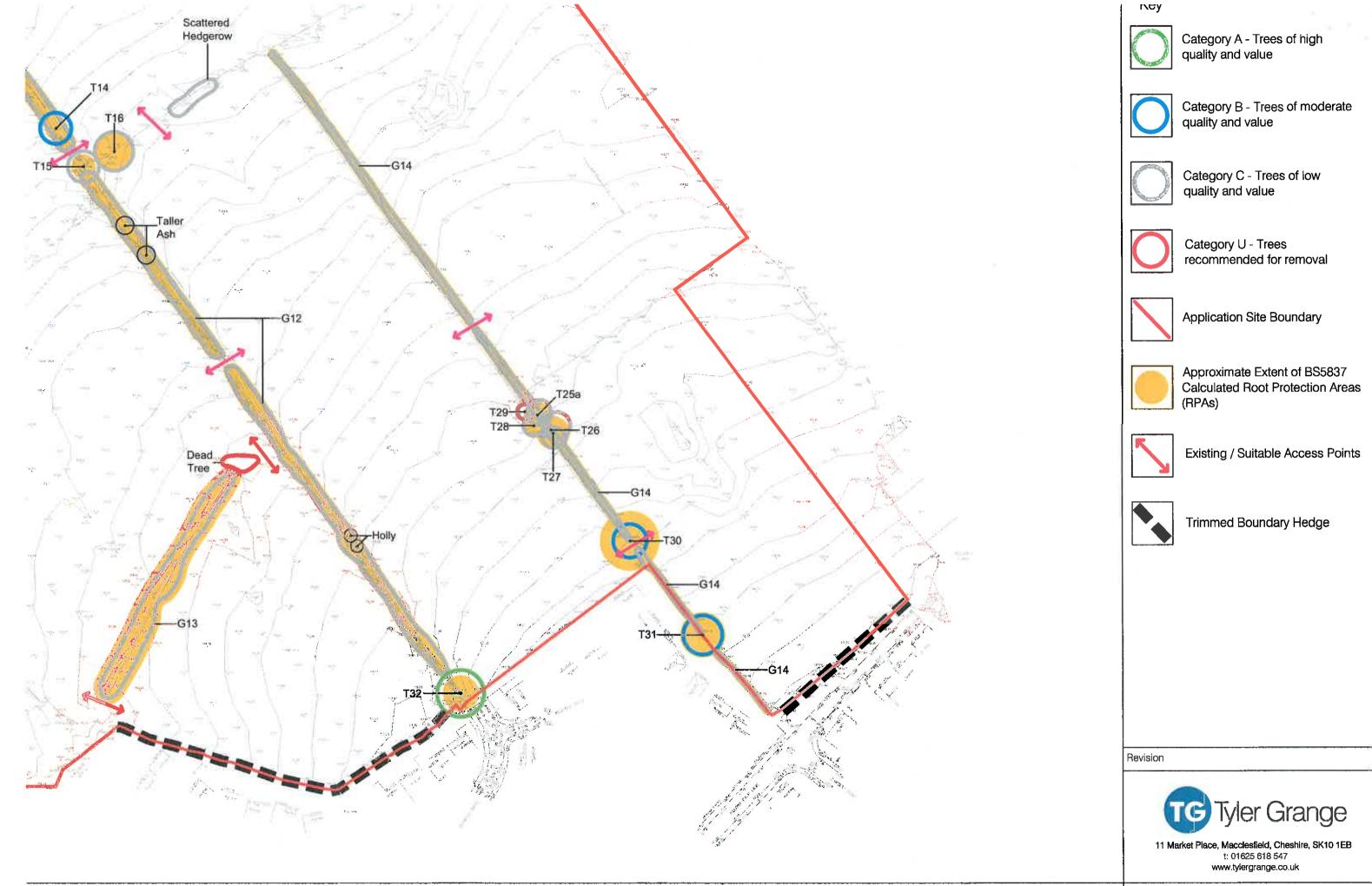
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Plan 1: Findings of Tree Quality Survey & Root Protection Areas (Sheet 4 of 5)



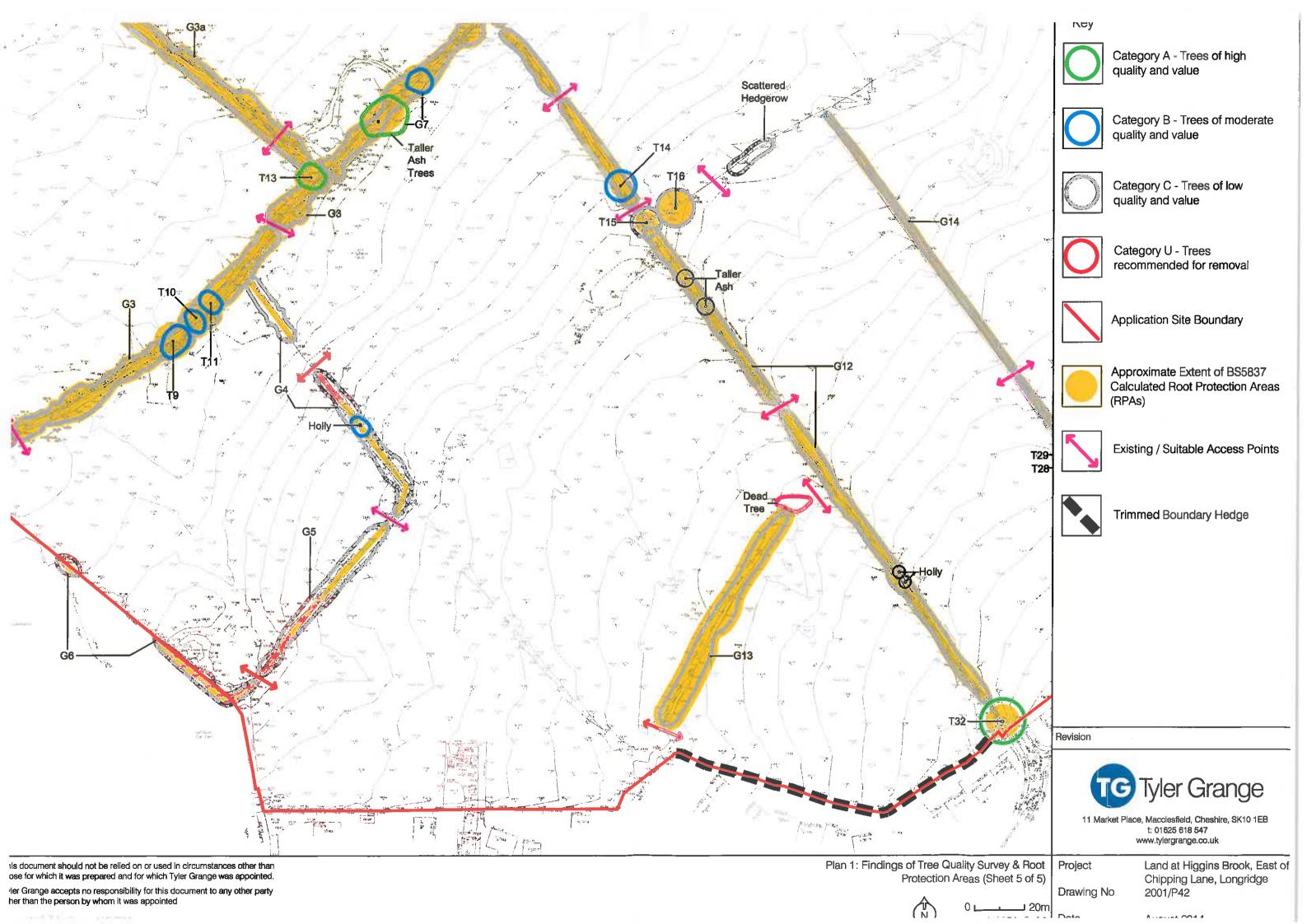
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Project

Drawing No

Land at Higgins Brook, East of Chipping Lane, Longridge 2001/P41

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