

PROJECT: 3195 INGS ROAD, KIRTON-IN-LINDSEY

REPORT: 503 TREE SURVEY

PREPARED BY TPM LANDSCAPE LTD

FOR

The Strategic Land Group

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1.0 INTRODUCTION

1.1 Background

The trees were assessed in one visit by a qualified arboricultural consultant in February 2020. The trees were surveyed in accordance with BS 5837:2012 Trees in Relation to Design, Demolition and Construction - Recommendations, to provide a detailed understanding of the condition of the existing trees.

1.2 Site Description

- The site is currently agricultural land that lies to the north of Ings Road, Kirton-in-Lindsey
- There are large mature trees and hedgerows to the boundaries of the site, with residential properties neighbouring eastern and southern boundaries. The main access is from the southern boundary off Ings Road. Further agricultural land lies to the north and west of the site.
- The site lies to the north west of the urban edge of Kirton-in-Lindsey
- The site is currently predominantly grassland with a band comprising of a tree group and hedgerow with brambles through the centre of the site running in a northerly to southerly orientation. A small outbuilding used as a shelter for horses is located within the northern portion of the site.

1.3 Tree Preservation Orders

There are currently no designated Tree Preservation Orders within the site or within the immediate vicinity nor does the site fall within a conservation area. This was confirmed by accessing interactive mapping on the North Lincolnshire Council web site (<http://maps.northlincs.gov.uk/iSharewebin.Web/myNorthlincs.aspx>) on 02/03/20.

1.4 Development Proposals

Development of agricultural land into a residential development of new homes with associated access and landscaping works.

2.0 SITE LOCATION PLAN



3.0 METHODOLOGY

3.1 Site Visit

The site visit was carried out in February 2020. Trees were assessed by a qualified Arboriculturalist in accordance with BS 5837:2012

3.2 Survey

A topographical survey was available at the time of the survey and this was used as the base for the tree survey drawing which accurately locates the trees in relation to existing features on site.

3.3 Survey Details

The following information was gathered for each tree; species, age class, estimated height, stem diameter at 1.5m above ground and individual crown spread. Vigour was assessed using leaf density and recent shoot extension.

3.4 Tree Condition

An assessment was made of the trees condition visually from ground level. No climbed inspection or detailed investigation of decay was made, however this was not considered necessary as enough information was gained about the trees from a ground level inspection. If any faults or potential failings were identified on the trees these have been picked up in the tree survey notes. It should be noted that trees can change significantly over a relatively short period of time, and therefore trees should be monitored on a regular basis for sign of deterioration.

3.5 Recommendations for Tree Works

Any tree works that are proposed in the tree survey notes are to either reduce hazards or promote good future growth of the tree, and do not relate to specific works to accommodate the proposed development. All works should be carried out to BS 3998: 2010 British Standard Recommendations for Tree Work and should have written approval by North Lincolnshire Council prior to the works being carried out if any of the trees identified are protected by a Tree Preservation Order.

3.6 Tree Retention Codes

The trees desirability for retention was assessed in accordance with BS 5837: 2012, and was assessed taking into account the trees age, vigour, amenity value (as a function of size, prominence, and attractiveness), life expectancy, replaceability and appropriateness in relation to the development proposals.

4.0 REFERENCES

- BS 5837 2012: Trees in relation to Design, Demolition and Construction - Recommendations
- BS 3998 2010: British Standard Recommendations for Tree Work
- Arboricultural Association Guidance Notes No 7 – Tree Surveys: A Guide to Good Practice
- ETR 2000: Tree Preservation Orders: A Guide to the Law and Good Practice
- Arboricultural Advisory and Information Service Practice Note APN 1 Driveways Close to Trees

For assessment criteria please refer to the tables after section 5.0 (in front of the site photographs)

5.0 ANALYSIS AND RECOMMENDATIONS

5.1 Tree Survey Schedule Analysis

Below is a summary of the tree survey schedule, for more detailed information on individual trees please refer to the schedule in section 7.0 and the TPM Tree Survey drawing 3195 101-102

- H3, H8, H9, H14, H15 and H16 are large hedgerows and are grade B and C. H4 and H7 are smaller hedges that make up part of the site boundary adjoining existing residential properties and are also grade B and C. The individual trees are a mix of predominantly grade B and C trees and two grade A trees.
- There are few trees throughout the site.
- Tree species surveyed include Ash, Apple (Domestic), Goat Willow, Elm and Field Maple. Hawthorn is the most common species on site.
- The trees are mainly at the edge of the site, apart from a band of trees consisting of hedgerow and one tree group, which dissects the site, north to south. Individual trees are all located along boundaries excluding T2 which sits within the site.

5.2 Conclusions and Recommendations

- G1, T5, T6, H8, H14, H15 have no recommendations for further action.
- It has been recommended that T2, H9, H16, G17, T18 should not constrain the proposed development/can be easily replaced.
- H4, H7, T10, T11 and T12 are recommended for retention and protection.
- It is recommended that T11, T12 and T13 should be monitored for Ash dieback disease.
- All tree works or tree removals should be carried out outside of the bird nesting season (typically March-August) unless a qualified ecologist carries out a bird nest survey.

Tree Summary	Number	Tree Category			
		A	B	C	U
Total Number of Trees / Groups / Hedgerows (as surveyed)	18	2	8	8	0

CASCADE CHART FOR TREE QUALITY ASSESSMENT

Category and definition	Criteria (including sub categories where appropriate)		
Trees unsuitable for retention (see Note)			
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.	<ul style="list-style-type: none"> - Trees that have serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where for whatever reason, the loss of companion shelter cannot be mitigated by pruning. - Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline. - Trees infected with pathogens of significance to the health and/ or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality. 		
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation
Trees to be considered for retention			
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 of 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.
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 remediable 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 value.
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	Unremarkable trees of very limited merit or such impaired condition that they do not quality 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 only temporary/ transient landscape benefits.	Trees with no material conservation or other cultural value.

TREE QUALITY ASSESSMENT: ASSESSMENT CRITERIA IN LINE WITH BS5837:2012

Tree	Number refers to tree number on survey drawing	Health Condition	General Health of the tree
	T Trees	VG	Very Good
	G Group of Trees	G	Good
	H Hedges	F	Fair
		P	Poor
Species	Common Name	D	Dead/ Dangerous
Height	Height of tree given in metres	Retention Value	Recommendation of tree retention with regard to both amenity and health. A general overview of the tree's retention value.
	Total Total height of tree above ground level	A Category	Trees of high quality with an estimated remaining life expectancy of at least 40 years; trees that are particularly good examples of their species, of particular visual importance and or of significant conservation or other value.
	First branch Height of first significant branch and direction	B Category	Trees of moderate quality with an estimated remaining life expectancy of at least 20 years; trees might have been category A but down graded because of impaired condition, trees within a group as such attracting a high collective rating and/ or trees with material conservation or other value.
	Canopy to inform ground clearance	C Category	Trees of low quality with an estimated remaining life expectancy of at least 10 years or young trees with a stem dia <150mm; unremarkable trees of limited merit or impaired condition, trees offering low or only temporary landscape benefits or poorer trees within a group, trees of no material consideration.
Girth	Diameter (mm) of trunk @1.5m above ground. MS refers to multi-stemmed trees.	U Category	Trees in such a condition they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years; trees which have serious defects and expected to collapse, trees that are dead or showing signs of overall decline, trees infected with pathogens of significant health or safety concern other trees nearby.
Spread	Measurements (m) taken from the centre point of the trunk in a North, South, East and West direction		
Age	OM Over-Mature		
	M Mature		
	EM Early Mature		
	SM Semi-Mature		
	Y Young (0-20 years)		
Amenity Value	General appearance of the tree		
	H High		
	M Moderate		
	L Low		

6.0 PHOTOGRAPHS



View looking east at G1 with neighbouring buildings visible to the south of the site.



View looking north-west along the western site boundary at H3.



View of the eastern boundary with H4, T5 (R) and T6 (L)



View of the part of the eastern boundary with H7



View looking south from outside the site at the northern boundary with H8.



View looking south east at the north western boundary with T10 (L) T11 & T12 (R) from outside the site.



View of western boundary with H15 (L) & H14 (R).



View of southern boundary with H16.



View looking north towards the site entrance from Ings Road with G17 (R).

7.0 TREE SURVEY SCHEDULE

No	Species	Height (m)	DBH (m)	Root Zone Radius (m)	Root Protection Area (sq.m)	Branch Spread (m)				Age Class	Condition (Phy)	SULE	Category Grading	1st Significant Branch Height	Amenity Value
						N	E	S	W						
G1	Blackthorn, Hawthorn	5	0.2	-		-	-	-	-	M	F	40+	B2	-	M
Notes	Old unmanaged hedgerow. Suckering Blackthorn stems. Ivy on stems. Good habitat value. Scrubby bramble under storey at margins.														
Recommendations	None														
T2	Goat Willow	4	0.15	1.8	10	2	2	2	2	SM	F	20+	C1	1	L
Notes	Small multi-stemmed goat willow. No major visible defects.														
Recommendations	Easily replaced														
H3	Hawthorn, Blackthorn	5	0.2	-		-	-	-	-	M	F/P	20+	B2	-	M
Notes	Old managed hedgerow. Predominantly Hawthorn. Stems of mixed condition - some featuring crown dieback. Some Ivy. Scrubby bramble understory. Discontinuous/gaps.														
Recommendations	Clear bramble/scrub from gaps and replant with Hawthorn/Blackthorn or other hedgerow species (e.g Field Maple/Hazel)														
H4	Beech, Hawthorn, Leyland Cypress	1.5	-	-		-	-	-	-	Y-SM	F	40+	C2	-	M
Notes	3/4 sections of residential hedging acting as boundary treatments between gardens and field. Off site hedge/resident planted.														
Recommendations	Retain and protect														
T5	Field Maple	5.5	0.22	2.64	22	3	2	2	3	SM	G	40+	B1	2W	M
Notes	Located on boundary with residential property in hedgerow. Planted by residents. No major visible defects														
Recommendations	None														
T6	Elm	5	0.2	2.4	18	2	2	2	2	SM	D	<10	C1	2.5W	L
Notes	Dead. Recently succumbed to dutch elm disease. Located in hedgerow. Now providing deadwood habitat.														
Recommendations	None (Small and low risk)														
H7	Beech	1.5	0.8	-		-	-	-	-	EM	G	40+	B1	-	M
Notes	Well maintained Beech hedge. Boundary treatment between residential property and field/site. Resident planted														
Recommendations	Retain and protect														

No	Species	Height (m)	DBH (m)	Root Zone Radius (m)	Root Protection Area (sq.m)	Branch Spread (m)				Age Class	Condition (Phy)	SULE	Category Grading	1st Significant Branch Height	Amenity Value
						N	E	S	W						
H8	Hawthorn, Elder	5	0.2	-		-	-	-	-	M	F	40+	B2	-	M
Notes	Old unmanaged Hawthorn hedgerow. Ivy on stems. Scrubby Bramble understorey. Stems located on south side of ditch														
Recommendations	None														
H9	Hawthorn	3	0.15	-		-	-	-	-	EM	F	40+	C2	-	L
Notes	A patchy section of hedgerow. Not maintained for some time. Ivy. Easily replaced.														
Recommendations	Should not constrain development proposals														
T10	Ash	11	0.38	4.56	65	5	6	5.5	4	M	G	40+	A2	2.5 S	M
Notes	Hedgerow tree. Good form. Good vitality. Minor deadwood. No major visible defects. A good tree but future uncertain with spread of ash dieback disease.														
Recommendations	One of very few trees on site - Retain and protect. Monitor for ash dieback disease.														
T11	Ash	12	0.4	4.8	72	5	4.5	5	2	M	F	20+	B2	2.5 SE	M
Notes	Hedgerow tree. Ok form. Thinning crown. Moderate to low vitality. Minor deadwood. Basal condition ok. No major visible defects.														
Recommendations	Monitor for ash dieback disease. Retain and protect.														
T12	Ash	12	0.61	7.32	168	6.5	4.5	6	6	M	F/G	40+	A2	2 SW	M
Notes	Hedgerow/boundary tree. Ok form. Good - moderate vitality. Light bacterial canker infection - epicormic growth on branches. Basal condition ok. No major visible defects.														
Recommendations	One of very few trees on site - retain and protect. Monitor for ash dieback disease.														
T13	Ash	8	0.25	3	28	0	2.5	5	2	SM	F	20+	C2	2 S	L
Notes	A hedgerow tree. Strong crown bias to south due to competition. Triple forked at 1m with ok unions - minor included bark. No major visible defects														
Recommendations	Monitor for ash dieback disease.														
H14	Blackthorn, Hawthorn	3.5	0.1	-		-	-	-	-	SM	F	40+	B2	-	M
Notes	A broad suckering Blackthorn hedgerow. Dense Bramble understorey. Good habitat value for nesting birds. Provides some screening between site and properties to the west.														
Recommendations	None														

No	Species	Height (m)	DBH (m)	Root Zone Radius (m)	Root Protection Area (sq.m)	Branch Spread (m)				Age Class	Condition (Phy)	LE Years	Category Grading	1st Significant Branch Height	Amenity Value
						N	E	S	W						
H15	Field Maple, Hawthorn, Blackthorn	5	0.1	-		-	-	-	-	SM	F	40+	B2	-	M
Notes	Slightly taller section of hedgerow along western margin. Suckering Blackthorn and Bramble understorey along western margin. Suckering Blackthorn and Bramble understorey. Provides some screening between site and properties to the west.														
Recommendations	None														
H16	Hawthorn, Elder	4.5	0.15	-		-	-	-	-	M	F	40+	C2	-	M
Notes	Unmanaged Hawthorn hedge. Stems openly spaced so more of a linear collection of stems. Bramble understorey. Good vitality. Forms boundary treatment between Ings Road.														
Recommendations	Should not constrain development proposals.														
G17	Blackthorn, Hawthorn, Elder	4.5	0.7	-		-	-	-	-	SM	F	20+	C2	-	L
Notes	Suckering patch of Blackthorn at site entrance. Low amenity value.														
Recommendations	Should not constrain development.														
T18	Apple (Domestic)	3	0.12	1.44	7	1	1	1	1	EM	P	10+	C1	1	L
Notes	Resident planted. Badly pruned and unsightly.														
Recommendations	Should not constrain development proposals.														

APPENDIX

Appendix :

3195 - 101 Tree Survey Sheet (1 of 2)

3195 - 102 Tree Survey Sheet (2 of 2)