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Executive Summary Tree Survey & Arboricultural Impact Assessment

Site: Lambs Close, Cuffley, Hertfordshire, EN6 4FD

Project No: 3178

Consultant: Daniel Gospel

Date: 14th September 2012

This is an extract of the preliminary TS & AIA report and is not the complete document. It provides an overview of the proposals including all tree surgery and felling requirements, together with detailed BS 5837:2012 classifications.

For comprehensive details please refer to the full report.



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The purpose of this report is to provide a preliminary consideration of the arboricultural implications created by proposed development. In accordance with the feasibility and planning sections of BS5837:2012 "Trees in relation to design, demolition and construction – Recommendations", trees deemed to be within the influencing distance of the projected construction have been evaluated for quality, longevity, and initial maintenance requirements. Where trees do not have to be removed for health and safety reasons, a detailed and objective assessment has been made of the consequences of the intended layout.

In this circumstance it is intended to It is proposed to develop the site at Lambs close through the demolition of the existing garages and hard surfaces and the construction of a single residential unit, with garaging, gardens and associated landscaped areas. As a result one hedge and twelve individual trees were inspected. The arboricultural related implications of the proposal are as follows:

- Implications on Construction No specialist construction techniques will be required for the main buildings, to avoid damage to retained trees however foundation design should take into account the potential effects of trees in the future. Protective fencing will be required prior to the commencement of demolition and will require realignment as the project progresses.
- 2 Cultural Implications for Retained Trees Minor. One tree requires limited pruning.
- **Landscape Implications** No trees require removal as a result of the proposals.
- **Post Development Implications** The development will be affected by shading from retained trees, though the impact of this on users of the site is a matter of personal preference.

Post Planning Permission – Subject to achieving Planning Permission, a detailed Arboricultural Method Statement and Tree Protection Plan will be required. This will include the following: fencing type, access facilitation pruning specification, phasing and an extensive auditable monitoring schedule.

Given the above, there are no overt or overwhelming arboricultural constraints that can be reasonably cited to preclude the proposed construction.



SCHEDULE OF TREES (AIA) Lambs Close, Cuffley, Hertfordshire

SCHE	DULE OF	TREES	(AIA)	Lami	os Close,	Cuffley, Hertfordsh	iire		•	,	aniel Gospel Date: 31/08/ aniel Gospel	2012
TreeNo	Species	DBH	Не	ight	Visual	Crown Spread	Problems / Comments	BS	Work Required (TS)	Priority	Work Required (AIA)	Priority
On site		Min Dist		Lowest	Age	Water Demand		Cat		(TS)		(AIA)
Est.Dim		RPA (m²)	Base	Branch	SULE	Ground Cover						
		,	Aspeci	Aspeci								
H001	Lawsons	200		6 Mode		N0.5, E0.5, S0.5,	Hedgerow group located in	B2	No works required.	4		
No	No Cypress	2.4	0	0	Υ	W0.5 High	neighbouring property to the south of the site. Provides good screening.					
			U		_	-	and one of the second constraints.					
Yes		18.1		E	2	0						
T001	English Oak	800	2	25	High	gh N5, E9, S10, W9	Early mature specimen located within the curtilage of the	A2	In order to lessen the leverage on the extended limbs it is	3		
		9.6	4		EM	High	neighbouring property to which there		recommended that careful			
		289.5			1	Grass	is no access. As such all dimensions are estimates and all comments are		reductive surgery is undertaken. Also, it is recommended that			
							based on that which is visible from the site. The stem has a slight, but apparently long existing lean towards the southern aspect. This appears to be the direct result of competition with the neighbouring Oak. The canopy is of asymmetric form and varying density. There are significant sections of deadwood present and the vigour appears poor. The site was re-visited on 31/08/2012, no significant changes were observed in the dimensions or condition of the tree since last surveyed.		the major deadwood be removed. Operation to be subject of a separate tree works application and not undertaken until written approval has been received from the local planning authority.			

TreeNo	Species	DBH	Не	ight	Visual	Crown Spread	Problems / Comments BS	Work Required (TS)	Priority	Work Required (AIA)	Priority	
On site	•	Min Dist	Crown Base	Lowest Branch	Age	Water Demand		Cat		(TS)		(AIA)
Est.Dim	1	RPA (m²)			SULE	Ground Cover						
T002	English Oak	1100		25	High	N12, E12, S5, W10	Specimen located within the	A2	It is recommended that the	3		
		13.2	1		EM	High	curtilage of neighbouring property to which there is no access. As such,		lowest, most extended laterals on the northern and eastern			
		547.4			1	_	all comments are based on that		aspects are removed back to			
						Mhich is visible from the site and all dimensions are estimates. Tree rises with a clear stem to a height of approximately 3.5 metres before diverging into three major scaffold limbs which support an asymmetric crown. On the northern, eastern and western aspects the crown has considerable extension, estimated up to 12 metres in greatest extent. There is considerable deadwood within the crown and substantial leverage present. The vigour of the specimen appears poor. The site was re-visited on 31/08/2012, no significant changes were observed in the specimen appears were observed in the specimen ap			the stem with major deadwood also being removed throughout the crown. Minor reduction should take place on the northern aspect to reduce the leverage towards the block of flats. Operation to be subject of a separate tree works application and not undertaken until written approval has been received from the local planning authority.			
T003	Leyland Cypres						the dimensions or condition of the tree since last surveyed. Tree on neighbouring property.					
No	Leyland Cypress			7	Low	N1, E1, S1, W1	,	C1	No works required.	4		
	Leyland Cypress	2.4	0	7 0	Y	High	,	C1	No works required.	4		
Yes	Leyland Cypress		0	0		, , ,	,	C1	No works required.	4		
	Leyland Cypress	2.4 18.1	0		Y	High	,		No works required. No works required.	4		
Yes		2.4 18.1	0	0	Y 3	High Grass	Tree on neighbouring property.					
Yes T004		2.4 18.1 300	0	0	Y 3 Moderate	High Grass N1, E3, S3, W3	Tree on neighbouring property.					
Yes T004 No		2.4 18.1 300 3.6	0 1 0	0	Y 3 Moderate SM	High Grass N1, E3, S3, W3 High	Tree on neighbouring property. Located in neighbouring property. Located in neighbouring property.	C1			Prune overhanging branches	0
Yes T004 No Yes	Leyland Cypress	2.4 18.1 300 3.6 40.7	0 1 0	0 12 0 N	Y 3 Moderate SM 3	High Grass N1, E3, S3, W3 High Grass	Tree on neighbouring property. Located in neighbouring property. Located in neighbouring property. Tree has been heavily pruned on northern aspect giving asymmetrical	C1	No works required.	4	Prune overhanging branches back to boundary or previous pruning points as appropriate.	0
Yes T004 No Yes T005	Leyland Cypress	2.4 18.1 300 3.6 40.7 350	0 1 0	0 12 0 N 10	Y 3 Moderate SM 3 Moderate	High Grass N1, E3, S3, W3 High Grass N2, E3, S3, W5	Tree on neighbouring property. Located in neighbouring property. Located in neighbouring property. Tree has been heavily pruned on	C1	No works required.	4	back to boundary or previous	0
Yes T004 No Yes T005 No	Leyland Cypress	2.4 18.1 300 3.6 40.7 350 4.2	0 1 0	0 12 0 N 10	Y 3 Moderate SM 3 Moderate SM	High Grass N1, E3, S3, W3 High Grass N2, E3, S3, W5 Low	Tree on neighbouring property. Located in neighbouring property. Located in neighbouring property. Tree has been heavily pruned on northern aspect giving asymmetrical	C1	No works required.	4	back to boundary or previous	0
Yes T004 No Yes T005 No Yes	Leyland Cypress Hornbeam	2.4 18.1 300 3.6 40.7 350 4.2 55.4	0 1 0	0 12 0 N 10 0	Y 3 Moderate SM 3 Moderate SM 2	High Grass N1, E3, S3, W3 High Grass N2, E3, S3, W5 Low 0.5	Tree on neighbouring property. Located in neighbouring property. Located in neighbouring property. Tree has been heavily pruned on northern aspect giving asymmetrical crown spread.	C1	No works required. No works required.	4	back to boundary or previous	0

TreeNo	Species	DBH	Не	eight	Visual	Crown Spread	Problems / Comments	BS	Work Required (TS)	Priority	Work Required (AIA)	Priority
On site		Min Dist	Crown Base	Lowest Branch	Age	Water Demand		Cat		(TS)		(AIA)
Est.Dim		RPA (m²)			SULE	Ground Cover						
T007	Ash	200		9	Moderate	N1, E1, S1, W1	Located in neighbouring property.	C2	No works required.	4		
No		2.4	0	1.5	Y	Moderate						
Yes		18.1		E	3	1.5						
T008	White Poplar	200	•	11	Low	N1, E2, S3, W3	Off site tree in area of scrub along railway lines to the east of the site. Unable to access closely due to dense vegetation.	C2 1	No works required.	4		
No		2.4	3	3	Y	High						
Yes		18.1		S	3	3						
T009	White Poplar	250	•	10	Low	N1, E2, S2, W2	Off site tree in area of scrub along railway lines to the east of the site.	C2	No works required.	4		
No		3	2	2	Y	High	Unable to access closely due to					
Yes		28.3		S	3	2	dense vegetation.					
T010	White Poplar	200	•	10	Low	N2, E2, S1, W2	Off site tree in area of scrub along railway lines to the east of the site.	C2 No works required.	No works required.	4		
No		2.4	2	2	Y	High	Unable to access closely due to					
Yes		18.1		N	3	2	dense vegetation.					
T011	Hawthorn	268		7	Moderate	N3, E2, S2, W2	Off site tree in area of scrub and small trees along railway to the east	C2	No works required.	4		
No		3.216	1	0.5	SM	High	of the site. Specimen displays					
Yes		32.5		N	2	0.5	multistem form.					
T012	Hawthorn	184		5	Moderate	N2, E2, S2, W2	Off site tree in area of scrub and small trees along railway to the east	C2	No works required.	4		
No		2.208	0.5	0.5	SM	High	of the site. Specimen displays					
Yes		15.3		N	2	0.5	multistem form.					

Schedule of Works – Irrespective of Development	

SCHEDULE OF WORK IRRESPECTIVE OF DEVELOPMENT

Lambs Close, Cuffley, Hertfordshire

Surveyed By: Daniel Gospel Surveyed: 31/08/2012

Managed By: Daniel Gospel

Tree No.	Species	Work required	Priority
T001	English Oak	In order to lessen the leverage on the extended limbs it is recommended that careful reductive surgery is undertaken. Also, it is recommended that the major deadwood be removed. Operation to be subject of a separate tree works application and not undertauntil written approval has been received from the local planning authority.	3 ken
T002	English Oak	It is recommended that the lowest, most extended laterals on the northern and eastern aspects are removed back to the stem with major deadwood also being removed throughout the crown. Minor reduction should take place on the northern aspect to red the leverage towards the block of flats. Operation to be subject of a separate tree work application and not undertaken until written approval has been received from the local planning authority.	uce

Schedule	of Works to Allo	w Developme	nt	

SCHEDULE OF WORKS (AIA)

Lambs Close, Cuffley, Hertfordshire

Surveyed By: Daniel Gospel Surveyed: 31/08/2012 Managed By: Daniel Gospel

Tree No.	Species	Work required Pr	iority
T005	Hornbeam	Prune overhanging branches back to boundary or previous pruning points as appropriate.	0

Explanatory Notes



Categories

Below is an explanation of the categories used in the attached Tree Survey.

No Identifies the tree on the drawing.

Species Common names are given to aid understanding for the wider audience.

BS 5837 Main Category

Using this assessment (BS 5837:2012, Table 1), trees can be divided into one of the following simplified categories, and are differentiated by cross-hatching and by colour on the attached drawing:

Category A - Those of high quality with an estimated remaining life expectancy of at least 40 years;

Category B - Those of moderate quality with an estimated remaining life expectancy of at least 40 years;

Category C - Those of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm:

Category U - Those trees in such condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.

BS 5837 Sub Category

Table 1 of BS 5837:2012 also requires a sub category to be applied to the A, B, C, and U assessments. This allows for a further understanding of the determining classification as follows:

Sub Category 1 - Mainly arboricultural qualities;

Sub Category 2 - Mainly landscape qualities;

Sub Category 3 - Mainly cultural values, including conservation.

Please note that a specimen or landscape feature may fulfil the requirements of more than one Sub Category.

DBH (mm)

Diameter of main stem in millimetres at 1.5 metres from ground level. Where the tree is a multi-stem, the diameter is calculated in accordance with item 4.6.1 of BS 5837:2012.

Age

Recorded as one of seven categories:

Y Young. Recently planted or establishing tree that could be transplanted without specialist equipment, i.e. less than 150 mm DBH.

S/M Semi-mature. An established tree, but one which has not reached its prospective ultimate height..

E/M Early-mature. A tree that is reaching its ultimate potential height, whose growth rate is slowing down but if healthy, will still increase in stem diameter and crown spread..

M Mature. A mature specimen with limited potential for any significant increase in size, even if healthy.

O/M Over-mature. A senescent or moribund specimen with a limited safe useful life expectancy. Possibly also containing sufficient structural defects with attendant safety and/or duty of care implications.

 ${\bf V}$ Veteran. An over-mature specimen, usually of high value due to either its age, size and/or ecological significance

D Dead.

Height Recorded in metres, measured from the base of the tree.

Crown Base Recorded in metres, the distance from ground and aspect of the lowest

branch material.

Lowest Branch Recorded in metres, the distance from ground and aspect of the

emergence point of the lowest significant branch.

Life Expectancy Relates to the prospective life expectancy of the tree and is given as 4

categories:

1 = 40 years+;

2 = 20 years+;

3 = 10 years+;

4 = less than 10 years.

Crown spread Indicates the radius of the crown from the base of the tree in each of the

northern, eastern, southern and western aspects.

Minimum distance This is a distance equal to 12 times the diameter of the tree measured

at 1.5 metres above ground level for single stemmed trees and 12 times the average diameter of the tree measured at 1.5 metres above ground level tree for multi stemmed specimens. (BS 5837:2012, section

4.6).

RPA This is the Root Protection Area, measured in square metres and

defined in BS5837:2012 as "a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority". The RPA is shown on the drawing. Ideally this is an area around the tree that must be kept clear of construction, level changes of construction operations. Some methods of construction can be carried out within the RPA of a retained

tree but only if approved by the Local Planning Authority's tree officer.

Water Demand This gives the water demand of the species of tree when mature, as

given in the NHBC Standards Chapter 4.2 "Building Near Trees".

Visual Concerns the planning and landscape contribution to the development

site made by the tree, hedge or tree group, in terms of its amenity value and prominence on the skyline along with functional criteria such as the

screening value, shelter provision and wildlife significance.

Problems/comments May include general comments about growth characteristic, how it is

affected by other trees and any previous surgery work; also, specific problems such as deadwood, pests, diseases, broken limbs, etc.

Work required (TS) Identifies the necessary tree work to mitigate anticipated problems and

deal with existing problems identified in the "Problems/comments"

category.

Work required (AIA) Identifies the tree work specifically necessary to allow a proposed

development to proceed.

Priority This gives a priority rating to each tree allowing the client to prioritise

necessary tree works identified within the Tree Survey.

1 Urgent – works required immediately;

2 Works required within 6 months;

3 Works required within 1 year;

4 Re-inspect in 12 months,

0 Remedial works as part of implementation of planning consent.

