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2059 Dodworth
Tree survey and
Arboricultural impact
assessment

Landscape Architects ■ Urban Designers ■ Ecologists ■ Horticulturists

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CONTENTS

PART ONE – TREE SURVEY

1.0	Introduction	Page 3
1.1	Site description	Page 3
1.2	Legal status of trees	
2.0	Aims and Methodology	Page 4
2.1	Aims	Page 4
2.2	Survey methodology	Page 4
3.0	Key to tree survey schedules	Page 5
4.1	Individual trees survey schedules	Page
4.2	Tree groups survey schedules	Page
4.3	Hedge survey schedules	Page

PART TWO – ARBORICULTURAL ASSESSMENT

1.0	Root Protection Areas	Page
2.0	Above Ground Constraints	Page
3.0	Arboricultural Implications and Mitigation	Page
4.0	Tree Protection	Page

Figure:

PART ONE – TREE SURVEY

1.0 Introduction

Text including date of survey(s).

1.1 Site description and development proposed

Text

1.2 Legal status of surveyed trees

Information regarding any TPO's, Conservation Area, Forestry Act.

Trees may also be subject to legal protection under a range of other legislation, much of which is aimed at wildlife and habitat protection, particularly nesting birds and bats.

No work should be done to any trees until either suitable permission has been granted or it has been verified that the intended work does not require permission.

2.0 Aims and Methodology

2.1 Aims

The aims of the survey are to undertake a non-invasive survey of the identified trees and any trees which have the potential to be affected by future works within the vicinity. The Tree Survey Plan shows the location and category of the surveyed trees.

2.2 Survey Methodology

The survey was carried out to British Standard 5837:2012 using the categories explained below:

- 2.2.1 The trees were assessed visually from ground level. Where potential problems were identified, further inspection by tree climbing is recommended. No digging or drilling methods were employed during this survey
- 2.2.2 The tree numbers or group numbers within the schedules refer to the order in which the trees were recorded and shown on the tree survey plan
- 2.2.3 The approximate height of each tree is measured from ground level to top of canopy using a clinometer;
- 2.2.4 The diameter of each tree is measured at 1.5m above ground level. Where a tree stem divides below 1.5m each stem is measured at 1.5m above ground level in accordance with Annex C of the British standard. The diameter of trees where the trunk was inaccessible have been estimated and marked as such within the survey schedules.
- 2.2.5 The age of each tree is based upon our experience and is divided into young, semi-mature, early-mature, mature, over mature and veteran.
- 2.2.6 The physiological condition of the trees is based upon our experience and is an assessment of the health and vigour of the tree.
- 2.2.7 The structural condition and description is also based on our experience.
- 2.2.8 Both the approximate expected lifespan remaining and category / rating of each tree is based on our experience;
- 2.2.9 The retention category of each tree or group of trees is based upon the information detailed above using the following categories:
 - A Trees of high quality and estimated life expectancy of at least 40 years (Light green on plan)
 - B Trees of moderate quality and estimated remaining life expectancy of at least 20 years (Mid blue on plan)
 - C Trees of low quality and estimated remaining life expectancy of at least 10 years or young trees with a stem diameter below 150mm (Grey on plan)
 - U Trees cannot realistically be retained as living trees in context of current land use for longer than 10 years (Dark red on plan)

2.2.10 The following subcategories have been used in rating tree value:

- 1 Mainly arboricultural value
- 2 Mainly landscape value
- 3 Mainly cultural values, including conservation

3.0 Key to survey schedules:

Tree no. Tree number as recorded on the plan: T1, T2 etc and for tree groups: G1, G2 etc. Hedges: H1, H2 etc.

Species Common name

Height Overall estimated height of the tree in metres (rounded up to the nearest metre for trees over 10m high).

Stem Dia Stem diameter measured in millimetres at 1.5m above ground (on sloping ground measured on the upslope of the stem) in accordance with Annex C of BS5837:2012-05-23

Branch spread measured in metres (rounded up to the nearest half metre) along the four cardinal points: north, east, south and west to derive an accurate representation of the crown.

Ht crown clearance the existing height, measured in metres, above ground level of: the first significant branch and direction of growth and the canopy.

Age class young (Y), semi-mature (SM), early mature (EM), mature (M), over-mature (OM), veteran (V).

Physiological condition Good (G), fair (F), poor (P), dead (D).

Structural condition overall form of tree, presence of any decay, any physical defects and observations

Preliminary Management Recommendations including any further investigations required, wildlife habitat potential, management or pruning works.

ERC the estimated remaining contribution measured in years: <10, 10+, 20+, 20-30+, 40+

Cat category U or A to C grading as defined in Table 1 BS 5837: 2012

RPA Root protection area measured in square metres and calculated according to BS 5837:2012

Other abbreviations used:

GL	Ground-level	G	Group
MS	Multi-stem	T	Tree
		Est	Estimate

OSB Outside site boundary H Hedge AFP Access facilitation pruning (one-off pruning to allow access for construction)

Tree No.	Tag No.	Species	Height (m)	Stem Dia (mm)	Branch Spread (m)	Ht crown clearance (m)	Age Class	Physiological condition	Structural condition	Preliminary management recommendations	ERC (years)	Cat	RPA (m ²)
T1	No tag	Eucalyptus	7	280	N 5 E 5 S 5 W 4	1.8	M	F	Canopy bias to the east. Contorted trunk, sparsely branched with die back. Overhanging the site.	Outside the site	20	B2	41
T2		Sycamore	8	180	N 1.5 E 5 S 3.5 W 0	3	M	F	A tree with a strong lean to the east and same with the canopy which is held at the high level. Overhanging the site.	Outside the site	30+	C2	18
T3		Hawthorn	5	210 80 100 60	N 3.5 E 3 S 3 W 3	1.5	M	G	Remnant thorn. Multi stemmed and balanced congested canopy. Some light branch removal.	Canopy lift if required	20	B2	34
T4		Lawson's Cypress	7	178	N 1 E 1.5 S 1 W 1	3	M	F	Lower branches remain. Three stems rise from 3m. Upper canopy balanced. Poor shape.	Outside the site.	20	B/C2	18
T5		Thorn	4	165	N E 2R S W	Nil	M	G	Self seeded thorn. Branched to ground level, congested branches.	Canopy lift if needed	20	B2	14
T6		Thorn	4.5	50 60 60	N 2 E 1.5 S 2 W 1.5	Nil	M	G	Self seeded thorn. Multi-branched and with a congested canopy. Vigorous and no visible defects.	Canopy lift if needed	20	B2	7

T7	Thorn	3	130	N 2 E 2 S 2.5 W 2.5	Nil	EM	G	Squat tree branches to ground level and stems rising. Balanced.	Canopy lift if needed	30	C2	10
Tree No.	Tag No.	Height (m)	Stem Dia (mm)	Branch Spread (m)	Ht crown clearance (m)	Age Class	Physiological condition	Structural condition	Preliminary management recommendations	ERC (years)	Cat	RPA (m ²)
T8	Thorn	5	100 150 210 5x80	N 4 E 4 S 3 W 3.5	1.5	M	F	Very multi stemmed with 12 stems rising. But half of tree dead from base. Unbalanced after stem removal.	Remove dead stems	30	C2	48
T9	Goat Willow	12.5	440	N 3 E 4.5 S 4.5 W 4	1.8	M	G	One main stem which is forked at 1.5m with a lesser stem which is forked again. Well balanced. Basal wounds exposing wormed wood.	Little value.		U	92
T10	Lawson's Cypress	5	120	N E S 1m W	2.5	EM	P	Tall thin tree with branches removed to 2.5m. Narrow head.	Outside the site	20	C2	7
T11	Thorn	5	110 80 95	N 3 E 3 S 2 W 2	Nil	M	F	Branches from low level. Remnant bush. Multi stemmed from base congested.	No work required	30	B2	14
H12	Lawson's Cypress hedge	4.5	130 ave	N 1.2R E S W	1.5	M	G	Short length of Lawsons with lower branches removed to 1.2m uneven height.	Boundary position	30	B2	
H13	Lawson's Cypress hedge	5	140 ave	N 1.75R E S	1.5	M	F	9 Lawsons, uneven height, no lower branches. Major old bark loss on stems but canopies vigorous. (Screening value)	Clear lower stems	20	C2	18

					60x4	S 3 W 3.5											
T28		Ash		6.5	125	N 2 E 3 S 4 W 2	Nil	Y	G				A good straight tree branched to low level formed at 3m	Canopy lift if required	40	A2	7
Tree No.	Tag No.	Species	Height (m)	Stem Dia (mm)	Branch Spread (m)	Ht crown clearance (m)	Age Class	Physiological condition	Structural condition	Preliminary management recommendations	ERC (years)	Cat	RPA (m ²)				
T29		Ash	7.5	160	N 3 E 3 S 2 W 3.5	500	Y	G		Straight young tree, well-branched to low level. Will be restricted by Ash trees. No visible defects.				Canopy lift if required	40+	A2	14
T30		Ash	6.5	140	N 3.5 E 4 S 3 W 3.5	500	Y	G		Young healthy tree forced at 1.2m good shape and no defect.				Canopy lift if required	40+	A2	10
T31		Lawson's Cypress x2	8.5	320	N 2.5 E 1.5 S 2.5 W 2	1.8	M	G		Cypress growing 1m apart with combined canopies. Clear stem to 1.75-2m. Both are balanced, with full crown				Outside the site	20+	B2	40
T32		Spruce	7.5	250	N 3 E 2 S 2 W 3	Nil	M	G		A vigorous straight tree, branches to ground level. Light die-back in lower branches 21				No work required	30	A2	28
T33		Alder	10	275 225	N 3 E 3.5 S 3 W 3.5	500	M	G		Two stems rise from a low base. Curving in upper canopy. Good tree				Canopy lift if required.	30	A2	64
T34		Spruce	10	280	N 3.5	Nil	M	G		A good straight tree, balanced, light die				Clear shrubs.	30	B2	41

T42	Thorn	6	270 110	E 4 S 4 W 4.5	1.75	M	G	level. Third stem cut off at base. Canopy at 2.5m, significantly lower branch removal.	Clear and remove one low branch	30	B2	28
								At least six main stems rising from base. One is cut off at 1.5m with re-growth contorted.				
Tree No.	Species	Height (m)	Stem Dia (mm)	Branch Spread (m)	Ht crown clearance (m)	Age Class	Physiological condition	Structural condition	Preliminary management recommendations	ERC (years)	Cat	RPA (m ²)
T43	Elm	8.5	85	N 1 E 3.5 S 3.5 W 1.5	1.5	Y	F	Growing by light columns. Multi branched from 2m but main stem ascending poor shape.	Remove - too close to lamppost	-	U	5
T44	Thorn	13	220 210 155 80	N 3 E 4 S 3 W 2	1.75	M	G	Three main stems from low level and one lesser. Lean and canopy bias to the east. Strong ivy. Light deadwood.	Remove ivy Stem clean	20	B2	55
T45	Ash	14.5	255 130	N 3 E 4.5 S 2 W 2	2.5	M	F	A tall, etiolated tree with strong ivy canopy held at high level with a bias to east. Crowded by Elm.	Clear lower branches.	30	C2	41
T46	Elm	17	290 200	N 5 E 1.5 S 1 W 4	4.5	M	P	Tall narrow tree with a strong canopy bias to the N.W. Few branches to S.E., Strong ivy. Significant deadwood. Two stems from base, one rotten at 1m high.	Clear ivy.	20	C2	64
T47	Thorn	5	160 110	N 1 E 5 S 5 W 1	2	M	G	Thorn strongly overhanging site. Forked at low level. Unbalanced.	Outside the site	30	C2	18

T48	Thorn	6	110 60x4	N 1 E 3 S 4.5 W 2.5	2	M	G	Strong overhang over site. Usual congested canopy. Some lower branches require removal.	Outside the site	30	C2	14
T49	Holly	5	70x3	N 1.5 E 2.5 S 2.5 W 1.5	Nil	M	G	Three stems rise from low level. Good bushy shape to ground level. No defects.	No work required	30	B2	7
Tree No.	Species	Height (m)	Stem Dia (mm)	Branch Spread (m)	Ht crown clearance (m)	Age Class	Physiological condition	Structural condition	Preliminary management recommendations	ERC (years)	Cat	RPA (m ²)
T50	Goat Willow	8	230 430 150 150	N 3 E 2 S 5 W 6	2.5	OM	F	Large old Goat Willow. Three stems from base, one cut back at 2.5m. Significant pruning over site. Considerable die back and breaks in canopy.	Outside	10	C2	13 7
T51	Birch	6.5	130	N 1 E 1.5 S 2 W 1.5	500	EM	G	Forked at 1m. One main stem, one lesser, bias to S.E.. No defects.	Canopy lift if required.	20	B2	10
T52	Elm	7	220 120	N 3 E 2.5 S 3.5 W 4	2	D	D	Dead	Dead	-	U	28
T53	Elm (Dutch Elm)	5	130	N 3 E 1.5 S 3 W 2	1.5	Y	G	Forced at 1.6m. Two splayed stems. Open habit. Light die back only.	Stem clean	30	B2	10
T54	Elm	5	110	N 3 E 1.5 S 1.5 W	1.2	Y	G	Etiolated form due to shady conditions. Branches from 1.5m. Slight lean to the north.	No work required	30+	B2	7

T55	Elm	16	240 145 350 75	N 5 E 6.5 S 8 W 6	1.2	M	G	Large mature Elm. Two main stems, one medium, one small. Open. Forks on main stem at 4m. Very light die-back and breaks.	Stem clean	30	A2	10 2
T56	Thorn	5.5	130	N 2 E 1.5 S 2.5 W 2	1	M	G	Single stemmed Thorn. Branches from 1.5m. Well balanced. Light ivy.	Remove ivy, canopy lift if required	20	B2	10
Tree No.	Species	Height (m)	Stem Dia (mm)	Branch Spread (m)	Ht crown clearance (m)	Age Class	Physiological condition	Structural condition	Preliminary management recommendations	ERC (years)	Cat	RPA (m ²)
T57	Thorn	3	135	N 3 E 2 S 2 W 3	1	M	G	Single stemmed Thorn with good balance, Forked at 500. No defects.	No work required	30	B2	10
T58	Group Cypress Golden	3	10x6 150	N 1.5 E 1.5 S 1.5 W 1.5	Nil	M	G	Group of two Conifer ornamental. Branched to ground level. No defects, but little value	No work required	20	B2	10
T59	Ash	4.5	75	N 2 E 1 S 1.5 W 1.5	1.5	Y	G	Straight young tree with curving in upper canopy. No defects.	Clear basal growth	40+	A2	3
H60	Beech hedge	2	1.5	N E S W	-	-	G	Well cut and trimmed beech hedge	Maintain by trimming	40+	A2	
T61	Oak	14m	850 300 550 #	N 6 E 7# S 5 W 1	1.5	M	G	Very large Oak of spreading form. Very multi stemmed from base. Light die back and breaks in canopy.	Outside	20+	A2	51 9

PART TWO – ARBORICULTURAL ASSESSMENT

1.0 Trees selected for retention

Body Text Gill Sans Mt 11pt

2.0 Trees selected for removal

3.0 Trees selected for pruning

4.0 Areas to be protected during construction operations

5.0 Arboricultural Implications and Mitigation

5.1 Below ground constraints

5.2 Above ground constraints

6.0 Tree Protection Measures