

TREE SURVEY SCHEDULE (BS5837: 2012)

TREE SOLUTIONS LTD

SITE:	LAND OFF CLITHEROE ROAD, WHALLEY
CLIENT:	BLOOR HOMES
BRIEF:	ARBORICULTURAL IMPACT ASSESSMENT

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	21 MAY 2014
VIEWING CONDITIONS:	GOOD
JOB REFERENCE:	14/AIA/RIBBBLE V/03

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TREE NO. <small>T - Tree G - Group H - Hedge</small>	SPECIES (COMMON NAME)	AGE	HEIGHT (m) + CROWN CLEARANCE/ DIRECTION OF GROWTH (N.S.E.W)	RADIAL CROWN SPREAD (m)				STEM/ MULTI-STEM* DIA. (mm)	VITALITY	COMMENTS	MANAGEMENT	CATEGORY & SUB-CATEGORY GRADING BS 5837	BS 5837 RADIUS (m) RPA (m ²)
				N	S	E	W						
T1	Oak	M	16 2.5S	5	5	5	4	600	G	<ul style="list-style-type: none"> No visual defects E.R.C. 20 	• N/A	B2	7.2 163m ²
T2	Ash	FM	18 4S	7	7	8	8	800	M	<ul style="list-style-type: none"> Large diameter dead wood in crown ≤100mm Tip dieback E.R.C. 20 	• N/A for development - long term would recommend 30% crown reduction	B2	9.6 290m ²
T3	Ash	FM	16 1S	4	7	6.5	6.5	720	M	<ul style="list-style-type: none"> Poor crown form Dieback/deadwood in crown E.R.C. 20 	• N/A	B2	8.6 235m ²
T4	Ash	FM	19 1N	11	9	9	9	1000	G	<ul style="list-style-type: none"> Large wide canopied tree Past large diameter limb loss/failure Dead wood in crown ≤100mm E.R.C. 20+ 	• N/A for development	A2	12 452m ²

HEADINGS & ABBREVIATIONS

TREE NO.
SPECIES:
AGE RANGE/LIFE STAGE:
HEIGHT:
CROWN SPREAD:
CROWN CLEARANCE & DIRECTION OF GROWTH:
STEM DIA/MULTI-STEM DIA:
VITALITY:
E.R.C. = ESTIMATED REMAINING CONTRIBUTION:
BS 5837 CATEGORY & SUB-CATEGORY GRADING:
BS 5837 RADIUS & BS 5837 RPA:

REFERENCE NUMBER. REFER TO PLAN OR NUMBERED TAGS WHERE APPLICABLE (T = TREE, G = GROUP, H = HEDGE)
COMMON NAME (LATIN NAMES AVAILABLE ON REQUEST)
 Y = YOUNG, SM = SEMI MATURE, EM = EARLY MATURE, M = MATURE, PM = POST MATURE
 ESTIMATED AND RECORDED IN METRES. APPROXIMATELY 1 IN 10 TREES ARE MEASURED USING A CLINOMETER AND THE REMAINDER ESTIMATED AGAINST THE MEASURED TREES
MAXIMUM CROWN RADIUS MEASURED TO THE FOUR CARDINAL COMPASS POINTS FOR SINGLE SPECIMENS ONLY (MEASUREMENT FOR TREE GROUPS - MAXIMUM RADIUS OF THE GROUP)
HEIGHT IN METERS OF CROWN CLEARANCE ABOVE ADJACENT GROUND LEVEL (TO INFORM ON GROUND CLEARANCE, CROWN/STEM RATIO AND SHADING)
STEM DIAMETER - MEASURED AT APPROXIMATELY 1.5 METRES ABOVE GROUND LEVEL OR A COMBINATION OF STEMS FOR MULTI-STEMMED TREES
A MEASURE OF PHYSIOLOGICAL CONDITION. D = DEAD, MD = MORIBUND, P = POOR, M = MODERATE, G = GOOD
RELATIVE USEFUL LIFE EXPECTANCY (YEARS)
 A = HIGH QUALITY AND VALUE, B = MODERATE QUALITY AND VALUE, C = LOW QUALITY AND VALUE, U = UNSUITABLE FOR RETENTION (SUB-CATEGORY REFERS TO ARBORICULTURAL, LANDSCAPE AND CULTURAL/CONSERVATION VALUES)
PROTECTIVE DISTANCE - RADIUS FROM THE CENTRE OF THE STEM TO THE LINE OF TREE PROTECTION (CONSTRUCTION EXCLUSION ZONE - CEZ) AND PROTECTIVE BARRIER ROOT PROTECTION AREA - BS 5837 (2012) ANNEX D (THE RECOMMENDATIONS STATE THAT THE RPA SHOULD BE CAPPED AT 707 M²) NOTE – ALL CALCULATIONS ROUNDED TO NEAREST DECIMAL

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				N	S	E	W						
T5	Oak	M	17 1S	7	9	6	8	850	G	<ul style="list-style-type: none"> Large diameter dead wood ≤200mm in lower crown Minor decay column between buttress at base to north - not significant Prominent tree to locale E.R.C. 40+ 	<ul style="list-style-type: none"> Remove dead wood 	A2	10.2 327m ²
T6	Oak	FM	20 1S	5	10	10	6	1400 1600 (2126)	G	<ul style="list-style-type: none"> Large prominent tree with historical importance to locale Co-dominant stems from base - crack evident between stems Vandalised - consecutive fires lit within hollow base causing extensive damage to both stems Large diameter limb loss in past leaving large tear out wounds E.R.C. 40+ 	<ul style="list-style-type: none"> Requires heavy crown reduction 40% to reduce loading on weak decayed and vandalised union at base Retain as historic pollard - i.e. veteran tree 	A2	15 707m ²
T7	Ash	FM	19 0.5S	7	9	7	7	1130	G	<ul style="list-style-type: none"> Fully mature open grown tree with no visual defects Ganoderma fungal fruiting body evident at base to north E.R.C. 20+ 	<ul style="list-style-type: none"> N/A 	A2	13.6 578m ²
T8	Alder	M	16 2N	4	4	3	4.5	450	G	<ul style="list-style-type: none"> No visual defects Not visually important to locale Located on edge of stream E.R.C. 20 	<ul style="list-style-type: none"> N/A 	B2	5.4 92m ²

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				N	S	E	W						
T9	Alder	M	16 1N	4	4	5	4	680	G	<ul style="list-style-type: none"> No defects No visually significant E.R.C. 20 	• N/A	B2	8.2 209m ²
T10	Ash	FM	16 0.5E	5	6	7	4	700	M	<ul style="list-style-type: none"> Crown failed in past leaving secondary crown Decay on lower scaffold E.R.C. 10 	• Fell if required	C2	8.4 222m ²
T11	Ash	M	17 0.5N	5	5	5	5	600	G	<ul style="list-style-type: none"> No visual defects E.R.C. 20+ 	• N/A	B2	7.2 163m ²
T12	Ash	FM	18 1E	6	9	9	5	850	M	<ul style="list-style-type: none"> Large diameter dead wood in crown Large limb loss in past leaving multiple tear out wounds Co-dominant stems Tip dieback E.R.C. ≤20 	• N/A	B2	10.2 327m ²
T13	Alder	FM	12 1N	5	1	4	2	460	M	<ul style="list-style-type: none"> Major crown suppression due to location below canopy of T12 E.R.C. 10 	• N/A	C2	5.5 96m ²
T14	Ash	FM	19 0.5N	7	5	7	5	980	G	<ul style="list-style-type: none"> Mature tree with no significant defects E.R.C. 20 	• N/A	A2	11.8 435m ²

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T15	Oak	M	8	9	3	3	3	800	M	<ul style="list-style-type: none"> Located on steep sided embankment to stream Root plate failed and tree leaning on opposite embankment E.R.C. 20 	• N/A	C2	9.6 290m²
T16	Oak	M	16 1N	4	5	4	4	680	G	<ul style="list-style-type: none"> Good quality tree with no visual defects E.R.C. 20+ 	• N/A	B2	8.2 209m²
T17	Oak	M	20 1N	7	5	7	7	1000	G	<ul style="list-style-type: none"> Good quality prominent tree with no visual defects E.R.C. 20 	• N/A	A2	12 452m²
T18	Spruce	EM	12 0.5N	2.5	2.5	2.5	2.5	300	M/G	<ul style="list-style-type: none"> Inappropriate tree species for location Not visually prominent E.R.C. 10 	• N/A	C2	3.6 41m²
T19	Elm	EM	12 1E	3	3	2.5	2	220	G	<ul style="list-style-type: none"> Within rear garden of adjacent residential dwelling Self set tree of no merit E.R.C. 10 	• 3rd part tree - N/A	C2	2.6 22m²
G1	Hawthorn	M	≤5					≤350	M/G	<ul style="list-style-type: none"> 2 linear rows of tree/overgrown hedgerow 1 dead tree to south E.R.C. 20 	• N/A	B2	4.2 55m²

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				N	S	E	W						
G2	Ash Sycamore Maple Willow	EM	≤17				3	≤350	G	<ul style="list-style-type: none"> Woodland planted on highway verge as screen to road All trees well established forming impenetrable screen No management since planting - needs thinning out E.R.C. 40+ - if managed 	<ul style="list-style-type: none"> Needs thinning out 	A2	4.2 55m ²
G3	Oak Sycamore Ash Rowan Elder Hawthorn	M	≤18				5	≤600	G	<ul style="list-style-type: none"> Mature trees forming linear woodland on eastern boundary Trees are prominent and offer attractive backdrop to site No visual defects detected during walkover survey E.R.C. 40 	<ul style="list-style-type: none"> N/A 	A2	7.2 163m ²
G4	Hawthorn Oak Alder Hazel Elm	M	≤16					≤350	G	<ul style="list-style-type: none"> Located on either side of stream No visual defects E.R.C. 20 	<ul style="list-style-type: none"> N/A 	B2	4.2 55m ²
G5	Alder	M	≤17					≤350	G	<ul style="list-style-type: none"> Small copse of no particular importance E.R.C. 20 	<ul style="list-style-type: none"> Fell if required 	B2	4.2 55m ²
G6	Sycamore	M	≤15	2.5	2.5	2.5	2.5	≤400	M	<ul style="list-style-type: none"> Self set trees on eastern boundary - not visually significant E.R.C. 20 	<ul style="list-style-type: none"> N/A 	C2	4.8 72m ²

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				N	S	E	W						
G7	Sycamore Ash Elm	EM	≤17					≤200	M	<ul style="list-style-type: none"> Area of small diameter self set scrub E.R.C. 10 	• N/A	C2	2.4 18m ²
H1	Hawthorn	M	2					60	G	<ul style="list-style-type: none"> 1.5m wide well maintained boundary hedgerow E.R.C. 20+ 	• N/A	B2	0.7 2m ²
H2	Hawthorn	M	6					150	G	<ul style="list-style-type: none"> 3m wide unmanaged boundary hedgerow liable to damage to top heavy crown when loaded due excessive weight E.R.C. 20+ 	• Top and side up to form tight hedge	A2	1.8 10m ²

Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
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 a 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 <p><i>NOTE</i> Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</p>			See Table 2
	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 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)	See Table 2
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	See Table 2
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 150 mm	Unremarkable trees of very limited merit or 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 only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	See Table 2