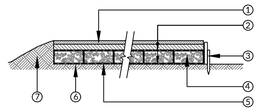
Survey of trees at land to the rear of The Hollies, Burghfield Common RG7 3BH

Tree No.	Species	Ht (m)	Branch spread (m) N	E	S	W	Stem diameters (cm) Single Stem	Stem 1	Stem 2	Stem 3	Stem 4	Stem 5	More than 5 stems Mean dia.	No. stems	Height of crown clearance (m)	Height of first branch (m) and direction (clock face)	Category grading	Estimated remaining contribution (yrs)	Condition Physiological / Structural	Tree Works to BS3998	Root protection radius (m)	Root protection area sq.m
57	English Oak	11	5	3	0	2	29								2	-	Y	C1	>10	Subservient to others.		3.48	38
58	Ash	16	5	6	7	2	37								2	-	Y	C1	>10	Inclined to the south-east. Showing signs of Ash Dieback.		4.44	62
59	Ash	16	4	5	5	7	68								6	2E	MI	B1	>20	Twin stemmed from ground level otherwise fair. Heavy ivy cover up the main stem. Showing signs of Ash Dieback.		8.16	209
60 to 62	Hawthorn	<9	3av				<33								3	-	MI	C1	>10	Predominantly scrub of multi-stemmed form.		3.96	49
63	English Oak	17	6	5	7	8	61								1	-	MI	A1	>40	Good form and condition, slightly biased to the west. Heavy ivy cover up the main stem.		7.32	168
68	Mixed vegetation	<6	2av				<25ave								0	-	S	C2	>10	Linear group comprising of predominately native species.	Remove.	3.00	28
68A	Mixed tree group	9av	3av				15ave								0	-	Y	C2	>10	Mixed saplings including Ash, Field Maple, Goat Willow and Blackthorn. Ash Dieback prominent throughout.	Remove.	1.80	10
69	English Oak	18	5av				55ave								2	-	E	B2	>20	Group of three trees separate from larger wooded area. In reasonable condition although heavy ivy cover up the stems prevents clear inspection. Some deadwood within the crowns but otherwise good condition.		6.60	137
70	English Oak	18	6	7	6	8	75e								6	6W	M	B2	>20	Prominent tree in good condition located on edge of woodland group. Ivy covered stem.		9.00	255
71	English Oak	22	7	9	9	6	80e								6	4.5W	M	B2	>20	Prominent tree located on edge of woodland. Ivy covered stem.		9.60	290
72	English Oak	22	9	7	10	10	89								2	3S	M	C1	>10	Large specimen although significant structural failure in the recent past. Has resulted in significant loss of crown on the southern side, the failing branches has also damaged a large branch beneath it.		10.68	358
73	Group of English Oak	<17	3av				<30ave								2	-	S	C2	>10	Group of what appear to be self-sown specimens in an unmanaged condition. Many of the trees have poor form and have heavy ivy coverage up the stems.		3.60	41
74	Group of English Oak	17av	6av				40ave								2	-	M	B2	>20	Linear group comprising of some prominent trees, but also some weaker specimens one of which has a snapped top. Scrub undergrowth beneath these trees including Hazel and ivy.		4.80	72
75	Group of Goat Willow	<10	3av				15ave								0	-	Y	U	<10	Group of self-sown trees in poor condition, one has a snapped stem and is resting on the ground.	Remove.	1.80	10
76	English Oak	14	4	5	6	7	68								4	4W	E	C1	>10	Smaller tree within linear group. Unusual structural form. Past failure in one of the structural limbs growing south westwards.		8.16	209
77	Apple	10	2	6	6	5	37								1	2E	M	C1	>10	Mature specimen in poor condition with multi stemmed form from approximately 2m.		4.44	62
78	English Oak	16	6	7	4	5	50e								3	4.5E	E	C1	>10	Reasonable specimen with a main stem that divides at approximately 5m. Tree stands off the hedgeline. Ivy covered stem.		6.00	113
79	Pair of Ash	13av	5av				25ave								4	-	Y	U	<10	self-sown specimens with poor crown form together with significant decay at the base of both trees. Showing signs of Ash Dieback.		3.00	28
80	Row of English Oak	19av	8av				65av								2	-	M	B2	>20	Prominent linear group of oak trees in good overall condition although some do have leaning stems. Understorey of Ash, Hawthorn and Blackthorn.	Remove as shown. Prune to provide 2m clearance from proposed dwelling.	7.80	191
81	Silver Birch & Goat Willow	16av	3av				25ave								2	-	M	C2	>10	Appear to be self-sown specimens located in the corner of the field.		3.00	28
82	English Oak	24	8	8	9	7	75e								5	6S	M	B1	>20	Prominent tree located near to the edge of the woodland area.		9.00	255
83	English Oak	17	7	8	5	6	56								2.5	5S	E	C1	>10	Reasonable specimen although asymmetric crown form.		6.72	142
84	Field Maple	11	3	3	5	3		36	29						2	2S	M	C1	>10	Twin stemmed specimen with asymmetric form. Extensive dead bark on lower stem.		5.55	97
85	Goat Willow	9	1	3	3	0	25e								1	1.5S	Y	U	<10	Regrown stump. Second significant stem has been removed previously.		3.00	28
86	English Oak	25	7	10	10	10	117								6	4.5S	M	C1	>10	Prominent tree in good overall condition however, main stem divides at approximately 1.5m and there is high potential for included bark within this tight union in the future, this makes long term retention questionable without significant crown management.		14.04	619
87	English Oak	18	4	8	8	5	69								2	3E	M	C1	>10	Reasonable condition overall although significant lean and crown asymmetry southwards due to adjacent trees.		8.28	215
88	Group of English Oak, Willow & Silver Birch	<17	4av				25ave								2	-	S	C2	>10	Group of poor quality trees that appear to be self-sown specimens.	Remove 1 stem as shown.	3.00	28
89	Horse Chestnut	15	2	3	5	8	54								2	4SW	S	U	<10	Poorly formed specimen with significant decay at approximately 3m where a significant limb has previously torn out.		6.48	132
90	Ash	13	2	3	9	3		28	39						1	1S	S	U	<10	Prolific Ash dieback.	Remove.	5.76	104
91	Mixed hedgerow	<9	3av				<25								0	-	M	C2	>10	Overgrown hedge that includes Hawthorn, Elder, Hazel and young Ash amongst it. Also within the hedge is significant bramble and ivy growth.	Remove.	3.00	28
92	Ash	15	8	8	6	8		35e	50e						1	2E	S	U	<10	Prolific Ash dieback.	Remove.	7.32	169
93	Ash	10	2	3	4	4	30e								4	4SW	S	U	<10	Partially collapsed.	Remove.	3.60	41
94	Group of Aspen	13av	4av				25ave								2	-	Y	C2	>10	Group of three trees in the corner of the field.		3.00	28
95	Ash	15	3	5	6	5	37								2	2E	S	C1	>10	Prolific Ash dieback.	Remove.	4.44	62
96	Aspen	16	7	6	7	6	*70e								2	-	M	U	<10	*Measured at just above ground level. Multi stemmed specimen from just above ground level but the number of tight unions and the propensity of failure for this species means that long term retention is unviable. Ivy covered stem.	Remove.	8.40	222
97	Lawson Cypress	6	2av				30e								0	-	Y	C1	>10	Ornamental conifer out of keeping with the wider natural setting.		3.60	41
97A	Row of mixed broadleaves	15av	7av				40ave								2	2E	E	B2	>20	Established row of trees growing within adjoining land. Species consist primarily of English Oak, Aspen and Ash. Ash showing signs of Ash Dieback.		4.80	72
98	Goat Willow	15	5	6	6	6	80								2	2S	M	C1	>10	Reasonable specimen. Some crown dieback.		9.60	290
99	Ornamental Conifers	<6	1av				20ave								0	-	Y	C2	>10	Non native species located in an area that appears to be used for recreation.		2.40	18
100	English Oak	20	12	10	13	12	80e*								2	1.5W	M	B1	>20	*Measured at just above ground level. Multi stemmed form although good unions near the base, tree has spreading form and provides screening.		9.60	290
101	Mixed Broadleaves	13av	6av				30av								2	-	Y	C2	>10	Mixture of species including ash, hawthorn and hazel that provide boundary screening, the ownership of this vegetation is unclear but is principally beyond the ditch line suggesting it is within adjacent property. Showing signs of Ash Dieback.		3.60	41
102	English Oak	17	5	3	8	8		40e	60e						2	2E	M	B2	>20	Reasonable specimen although very closely twin stemmed from ground level. Heavy ivy coverage prevents clear inspection of the stem.		8.65	235
103	Ash	16	9	6	3	5	45e								3	4E	E	B2	>20	Larger tree located adjacent to boundary in a satisfactory condition although significant crown asymmetry into the site.		5.40	92
104	English Oak	18	9	10	10	9	60e								2	4S	E	A1	>40	Prominent tree located offsite with very good form.		7.20	163
105	English Oak	17	8	8	9	8	55								2	3W	E	B1	>20	Prominent tree with slightly uneven crown form due to previous crown lifting works on northern side.		6.60	137
106	Holm Oak	12	6	6	5	6	45e								1	2.5N	E	B1	>20	Good tree with slight stem lean but should mature to be a good specimen.		5.40	92
107	Ash	13	4	6	5	4	39								2	4W	S	C1	>10	Self-sown specimen located on the boundary. Showing signs of Ash dieback.		4.68	69
107A	Ash	10	3	3	1	2	17								2	2N	S	U	<10	Suppressed by adjoining larger tree. Advanced Ash Dieback.	Remove.	2.04	13
108	Row of Hawthorn	8av	3av				25ave								0	-	M	C2	>10	Heavily ivy covered specimens that provide some screening.		3.00	28
109	Row of Leyland Cypress	8av	3av				<25								2	-	Y	C2	>10	Short group of trees located offsite and within adjacent garden.	Prune to provide 2m clearance from proposed dwelling.	3.00	28
109A	Crack Willow	7	3	3	2	4	30e								2	2N	S	C1	>10	Small tree growing amidst hedgerow.		3.60	41
110	English Oak	18	8	9	9	9	70e								3	4W	M	B1	>20	Prominent tree located offsite and immediately adjacent to a decked area accommodating a summer house. Heavy pruning to the upper crown on the north western side has been undertaken but no obvious reason as to why this has occurred.		8.40	222
111	Hawthorn	<8	2av				<20ave								2	-	M	C2	>10	Short linear group that is in line with other hawthorn grouped to the north. Heavy bramble cover at the base and ivy throughout the crowns.		2.40	18
112	English Oak	13	4	3	4	4	40e								5	6S	E	U	<10	Moribund condition with significant deadwood throughout the crown. Ivy present.		4.80	72
113	Group of English Oak	18av	9av				75ave								2	-	M	B2	>20	Prominent linear group of oaks in good overall condition. Understorey vegetation has been removed.		9.00	255
114	No longer present.																					
115	Apple	6	3av				25ave								1	-	O	U	<10	Group of three trees in poor overall	Remove.	3.00	28
116	Apple	6	3	3	0	3	23								2	2N	M	C1	>10	Suppressed specimen in a satisfactory condition.		2.76	24
117	No longer present.																					
118	Beech	12	5	5	4	4		25e	30e						2	-	S	C1	>10	Two stems forming combined crown and appear to be in a reasonable condition. Unable to see whether twin stemmed from ground level due to fence.		4.69	69
119	Beech	15	5	5	5	4	51								2	2NW	E	C1	>10	Good form however significant bark damage on south western side, this could be the consequence of a bonfire nearby.		6.12	118
120	Apple	8	1	1	2	5	38*								3	1.2W	M	U	<10	*Measured at just above ground level. Main stem divides at approximately 1.2m. Poor overall condition with significant deadwood.	Remove.	4.56	65
121	Apple	6	1	2	2	0	16								1	15	M	U	<10	Poor form with recent stem failure resulting in approximately half the crown being lost.	Remove.	1.92	12
122	Leyland Cypress	13	5av				36								0	-	Y	C1	>10	Non native species located in boundary vegetation.	Remove.	4.32	59
123	Silver Birch	11	1	4	4	3		16	19						2	2N	S	U	<10	Poorly formed specimen that is twin stemmed from ground level.	Remove.	2.98	28
124	Lawson Cypress	10	3av				21								0	-	S	C1	>10	Non native specimen located within boundary vegetation.	Remove.	2.52	20
125	Mixed broadleaf woodland	<22	6av				<75								2	-	S-M	B2	>20	Woodland group located beyond northern boundary. Some of the woodland is classed as ancient woodland. Mixed species including Ash, English Oak, and Aspen. Ash with advanced Ash Dieback.		9.00	255

KEY TO TREE SCHEDULE

Column Heading	Explanation
Tree No.	Unique number corresponding with number on plan
Species	English names
Ht (m)	Height in metres
Branch Spread	Crown radius in metres to cardinal points of the compass
Stem Dia	All measurements conform to Annex C of BS 5837:2012 Single stem - Stem diameter in centimetres measured at 1.5m above ground level. Multi-stemmed tree with 2 to 5 stems - Diameter of each stem Multi-stemmed tree with more than 5 stems - Average stem diameter and number of stems
Height of crown clearance	Height in metres between the ground and underside of canopy
Height of first major branch and direction of growth	Height from ground level to base of first major branch and the approximate direction of growth
Abbreviations as suffix to a dimension	Suffix 'e' denotes an estimated dimension Suffix 'av' denotes an average dimension
Age Class	Age Class definitions: Y = Young S = Semi-mature E = Early mature M = Mature O = Over mature
Category grading and Estimated remaining Contribution (yrs)	Summary of BS 5837: 2012 categorisation: 1. Trees unsuitable for retention: 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 that 10 years 2. Trees to be considered for retention: A1, 2 or 3 = trees of high quality (substantial contribution >40 yrs) B1, 2 or 3 = trees of moderate quality (significant contribution >20 yrs) C1, 2 or 3 = trees of low quality (but adequate, ie >10 yrs or young trees - until new planting can be established)
Estimated remaining contribution	Note: Useful estimated remaining contribution of the tree or tree group based on figures stated in BS5837:2012
Condition	Brief description including physiological and structural defects
Tree Works	Works required to be undertaken to the trees to facilitate the construction of remediate a defect encountered during the survey
Root Protection Radius	Radius of minimum root protection area in metres calculated from section 4.6 and Annex D of BS5837:2012
Root Protection Area	Total area of minimum root protection area extrapolated from root protection radius

Figure 3: Typical detail of 'no-dig' surfacing



1. Surface material to engineer's specifications
2. Geotextile separation fabric as specified by engineers
3. Treated timber edging supported on timber posts or concrete gravel boards supported on concrete spur posts if required
4. 40/20mm clean angular stone
5. Cellular confinement system to engineer's specification and depth
6. Existing ground levels retained (no excavation)
7. Soil fillet can be used at edges

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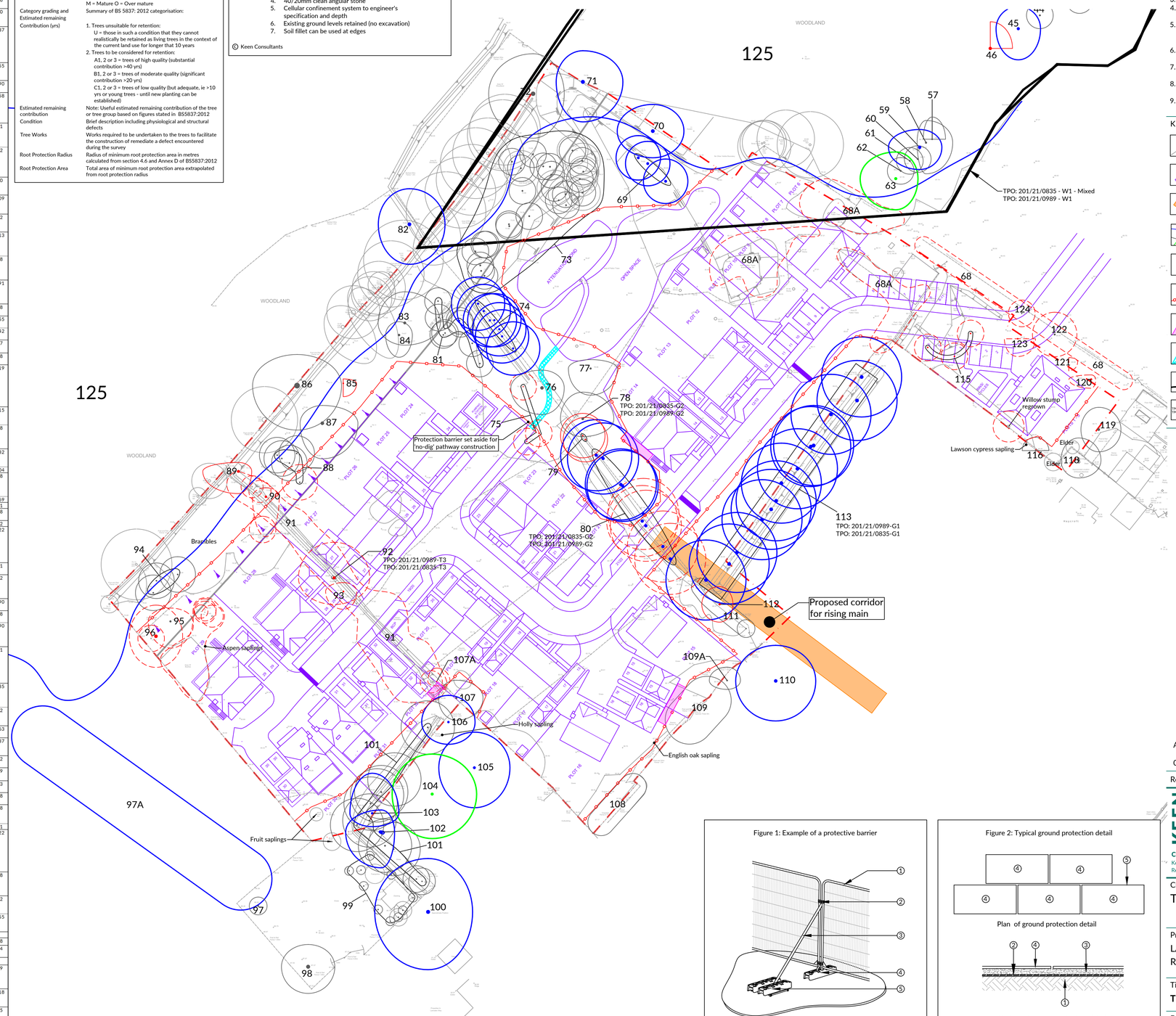

NOTES

1. The original of this drawing was produced in colour - a monochrome copy should not be relied upon.
2. Scale for planning purposes only.
3. All dimensions to be checked on site.
4. The copyright of this document resides with Keen Consultants unless assigned in writing by the company.
5. Details shown on this drawing are devised with reference to *BS5837:2012:Trees in relation to design, demolition and construction - Recommendations.*
6. Tree Preservation Order based on West Berkshire Council Online Map.
7. Topographical survey based on KND Surveys Ltd drawing number L 10 15 - T.
8. Where trees were not identified on the topographical survey they have been plotted by eye.
9. Site Information Plan based on 2020 Architecture job-drawing number 2021/P0162-02.

KEY

- Existing site features
- Proposed structures
- Proposed corridor for rising main
- Trees retained (Coloured line indicated extent of canopy)
- Trees for removal (Coloured line indicated extent of canopy)
- 2.0m high barrier as detail in Figure 1
- Area of ground protection as detail in Figure 2
- Minimum extent of no-dig construction. Actual deployment may be greater. As detail in Figure 3
- Tree Preservation Order (TPO) woodland
- Tree Preservation Order number (TPO: 201/21/0989-G2, TPO: 201/21/0835-G2)

Figure 1: Example of a protective barrier

1. Steel mesh panel
2. Connectors fitted to secure panels
3. Diagonal strut
4. Block feet to avoid driven scaffold poles
5. Block tray weighted with blocks

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Figure 2: Typical ground protection detail

1. Existing ground
2. Geotextile membrane eg. Terram 1000 or similar
3. Compression-resistant layer (e.g.100mm depth of woodchip)
4. Robust sheets (timber, steel, recycled plastic) overlying Terram 1000 or similar
5. Where wider than one sheet stagger joints

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Rev	Description	Date
A	Latest layout overlay and proposed corridor for rising main shown	12.01.22
0	Preliminary issue	14.12.21

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Client
TA FISHER

Project
LAND TO THE REAR OF THE HOLLIES, READING ROAD, BURGHFIELD COMMON

Title
TREE PROTECTION PLAN

Date	Scale
DEC 2021	1:500@A1
Drawn by	**Checked by**
ML	JTK

Drawing Number
1730-KC-XX-YTREE-TPP01RevA