Stage 1 Tree Survey & Preliminary Arboricultural Plans (Outline)

Land off Chapel Street, Acrefair

Prepared for:

Mr John
C/o Real Planning

Our Ref: 17/AIA/WXM/214

November 2017

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Tree Solutions

Arboricultural Consultants

TREE SURVEY SCHEDULE (BS5837: 2012)

SITE:	LAND OFF CHAPEL STREET, ACREFAIR
CLIENT:	MR JOHN - C/O REAL PLANNING
BRIEF:	STAGE 1 TREE SURVEY (OUTLINE)

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	23 NOVEMBER 2017
VIEWING CONDITIONS:	GOOD
JOB REFERENCE:	17/AIA/WXM/214

TREE NO. T - Tree G - Group H- Hedge	SPECIES (COMMON NAME)	AGE	HEIGHT (m) + CROWN CLEARANCE/ DIRECTION OF GROWTH (N.S.E.W)	RADIAL CROWN SPREAD (m) N	S	E	W	STEM/ MULTI-STEM* DIA.(mm)	VITALITY	COMMENTS	MANAGEMENT	CATEGORY & SUB-CATEGORY GRADING BS 5837	BS 5837 RADIUS (m) RPA (m^2)
T1	Lime	M	15 1S	4.5	5	4	5	400 250 200 200 (550)	G	• Multi-stemmed tree located outside site boundary • Not visually prominent from any public vantage point due to surrounding vegetation & steep side embankments • E.R.C. 20+	• 3rd party tree - N/A	B2	6.6 137m²
G1	Goat Willow x 3	M	≤8 1N	4	4	4	4	≤300	G	• Located outside site boundary on downward slope • Naturally colonised trees of no significant value • E.R.C.10+	• 3rd party trees - N/A	C2	3.6 41m²
G2	Hazel	FM	≤9 0N	1	4	7	2	90x10 (285)	M	• Unmanaged Hazel coppice at foot of steep sided embankment & immediately adjacent to road. • Ivy clad & of no amenity-landscape value • Require re-coppicing/removal irrespective of development proposal • E.R.C. 10	• Remove for development	C2	3.4 37m²
W1	Mixed broadleaf, predominantly Hazel to western edge	EM /M	≤9					≤300	G	• Mixed naturally colonised & unmanaged wooded copse, predominantly Hazel to western edge • E.R.C. 10	• N/A	C2	3.6 41m²

HEADINGS & ABBREVIATIONS

TREE NO.	REFERENCE NUMBER. REFER TO PLAN OR NUMBERED TAGS WHERE APPLICABLE (T = TREE, G = GROUP, H = HEDGE)
SPECIES:	COMMON NAME (LATIN NAMES AVAILABLE ON REQUEST)
AGE RANGE/LIFE STAGE:	Y = YOUNG, SM = SEMI MATURE, EM = EARLY MATURE, M = MATURE, PM = POST MATURE
HEIGHT:	ESTIMATED AND RECORDED IN METRES. APPROXIMATELY 1 IN 10 TREES ARE MEASURED USING A CLINOMETER AND THE REMAINDER ESTIMATED AGAINST THE MEASURED TREES
CROWN SPREAD:	MAXIMUM CROWN RADIUS MEASURED TO THE FOUR CARDINAL COMPASS POINTS FOR SINGLE SPECIMENS ONLY (MEASUREMENT FOR TREE GROUPS - MAXIMUM RADIUS OF THE GROUP)
CROWN CLEARANCE & DIRECTION OF GROWTH:	HEIGHT IN METERS OF CROWN CLEARANCE ABOVE ADJACENT GROUND LEVEL (TO INFORM ON GROUND CLEARANCE, CROWN/STEM RATIO AND SHADING)
STEM DIA/MULTI-STEM DIA:	STEM DIAMETER - MEASURED AT APPROXIMATELY 1.5 METRES ABOVE GROUND LEVEL OR A COMBINATION OF STEMS FOR MULTI-STEMMED TREES
VITALITY:	A MEASURE OF PHYSIOLOGICAL CONDITION. D = DEAD, MD = MORIBUND, P = POOR, M = MODERATE, G = GOOD
E.R.C. = ESTIMATED REMAINING CONTRIBUTION:	RELATIVE USEFUL LIFE EXPECTANCY (YEARS)
BS 5837CATEGORY & SUB-CATEGORY GRADING:	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)
BS 5837 RADIUS & BS 5837 RPA:	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 M^2) NOTE – ALL CALCULATIONS ROUNDED TO NEAREST DECIMAL

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	• 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 *NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see **4.5.7**.*			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

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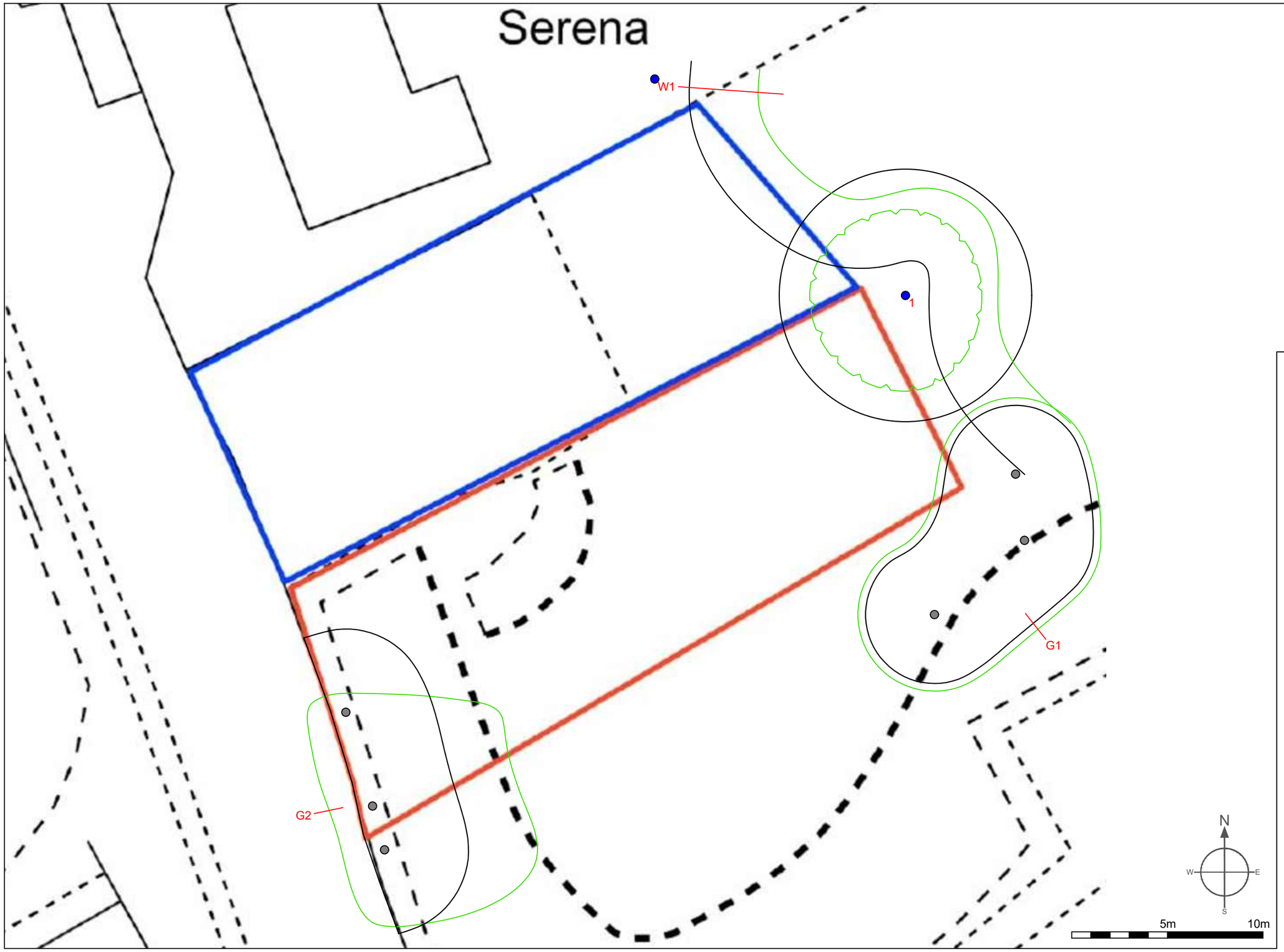

Legend

Root Protection Area Modified to Account for Site Features

Category
Crown Spread
Tree Number
Root Protection Area
13
NOTE: tree locations are approximate

- Category A (High Quality)
- Category B (Moderate Quality)
- Category C (Low Quality)
- Category U (Dead/Dying/In Decline)

Client: Mr John	
Project: Land off Chapel Street, Acrefair, Wrexham	
Title: Preliminary Tree Constraints Plan	
Scale: 1-200@A3	Date: November 2017
Drawn By: AM	Revision: -
Job Ref: 17/TCS/CHE(E)/129	Drawing No: 01

Do not scale from this drawing all dimensions to be checked on site.

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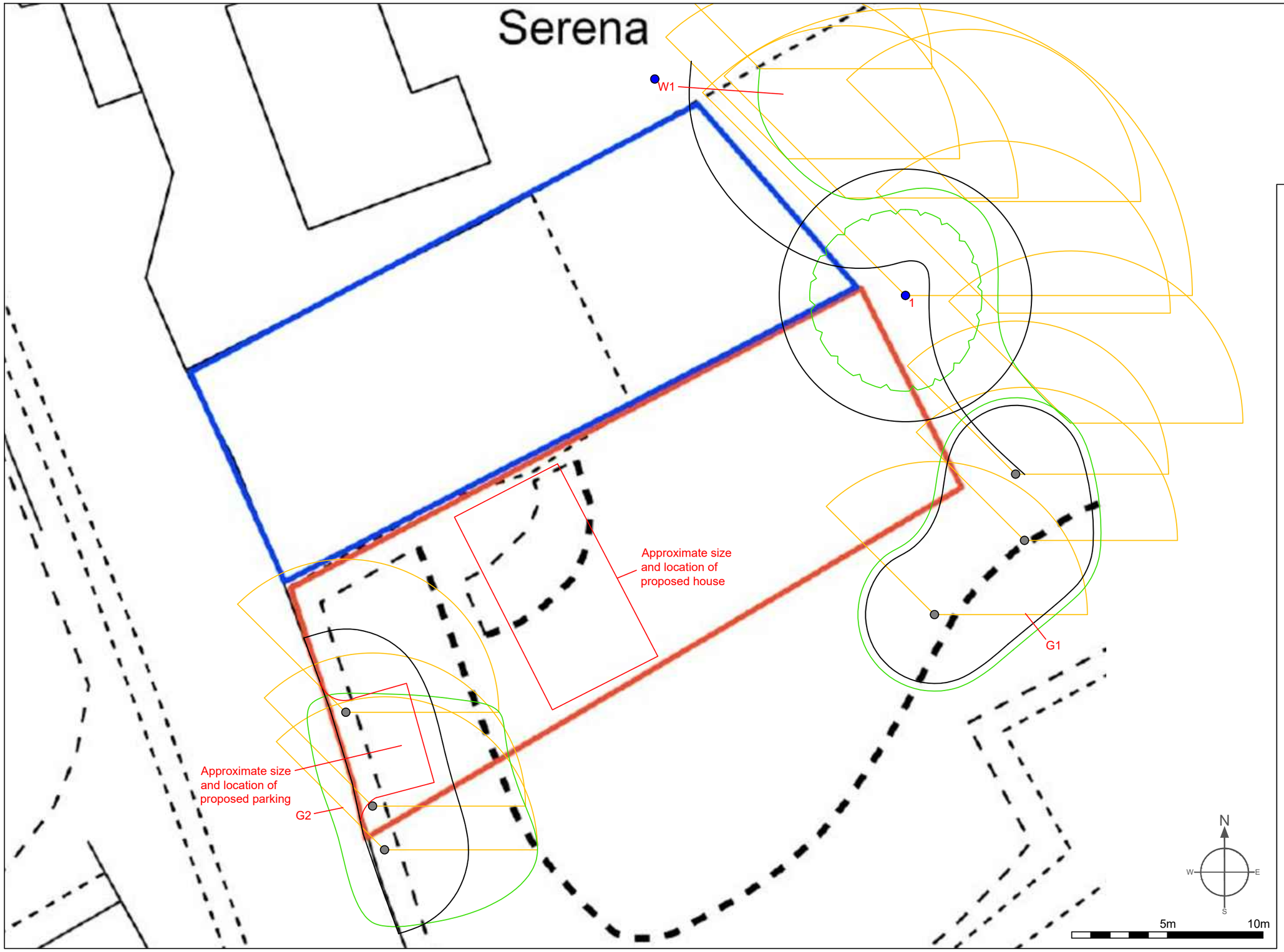

Legend

Root Protection Area Modified to Account for Site Features

Category

Crown Spread

Tree Number

Root Protection Area

NOTE: tree locations are approximate

- Category A (High Quality)
- Category B (Moderate Quality)
- Category C (Low Quality)
- Category U (Dead/Dying/In Decline)

Tree Proposed for Removal

AM PM

Approximate sweep of shade cast by trees in midsummer, plotted as per description in BS5837: 2012

"An indication of potential direct obstruction of sunlight can be illustrated by plotting a segment, with a radius from the centre of the stem equal to the height of the tree, drawn from due north-west to due east, indicating the shadow pattern through the main part of the day."

Client: Mr John	
Project: Land off Chapel Street, Acrefair, Wrexham	
Title: Indicative Arboricultural Impact Assessment	
Scale: 1-200@A3	Date: November 2017
Drawn By: AM	Revision: -
Job Ref: 17/TCS/CHE(E)/129	Drawing No: 02

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Photo 1 - T1 (Lime) & W1 located beyond eastern boundary

Photo 2 - G1 (Goat Willow) located outside SE boundary

Photo 3 - Site viewed from east looking west - no tree cover present

Photo 4 - G2 - Low grade unmanaged Hazel coppice at foot of embankment on western boundary