Tree Solutions

Arboricultural Consultants

Arboricultural Impact Assessment

Cuerden Hall, Bamber Bridge, Preston, PR5 6AZ

Prepared for:

MR C SHENTON

Our Ref: 21/AIA/CHORLEY/12

April 2021

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1.0 INSTRUCTION

- 1.1 We have been instructed by Mr C Shenton to carry out an Arboricultural Impact Assessment (AIA) in order to assess the development proposal in relation to trees in accordance with the principles of British Standard 5837 'Trees in Relation to Design, Demolition & Construction Recommendations' 2012.
- 1.2 We are instructed to prepare a report in order to provide information to assist all parties involved in the planning process to make balanced judgements regarding arboricultural features in relation to the proposed restoration and redevelopment works to Cuerden Hall, Bamber Bridge, Preston, PR5 6AZ. As such, all significant trees within influencing distance to the redevelopment works both on and adjoining the site have been surveyed and are listed within a Tree Survey Schedule (*Appendix 1*) and plotted on all accompanying plans.
- 1.3 The stage 1 tree survey was carried out from 10 March-12 March 2021 by Russell Pearce, Consultant to Tree Solutions Ltd. Our appraisal of the mechanical integrity of trees on the site is enough to inform the current project. The assessment of trees is carried out from ground level without invasive investigation and the disclosure of hidden defects cannot therefore be expected. Whilst the survey is not specifically commissioned to report on matters of tree safety, we report obvious defects that are significant in relation to the existing and proposed land use. We do not carry out detailed safety inspections unless specifically instructed to do so in writing and have not carried out such inspections of trees on the proposal site.
- One hundred and forty-four individual trees (T1–T144), twenty-one groups (G1-G21) and four woodlands (W1-W4) were surveyed and mapped on a Preliminary Tree Constraints Plan and Impact Assessment Plan Ref: 21/AIA/CHORLEY/12 Drawing No. 1&2 at *Appendix 2/3*. All arboricultural information recorded during the survey is presented within a schedule at *Appendix* 1
- 1.5 The Arboricultural Impact Assessment is based on the proposed landscape layout plan Ref: 376-L-P-162 provided by the project landscape architects Tom Stuart-Smith.

2.0 STATUTORY CONTROLS

2.1 A search on Chorley Council interactive maps on 21/03/2021 revealed all trees within the site boundary are subject to Tree Preservation Order Ref: Chorley BC TPO 8 (Cuerden) 2013. As such, statutory planning consent is required prior to undertaking the tree works proposed that are not granted consent under this planning proposal.



Plate 1- extract from Chorley Council interactive map indicating location of TPO around boundary of site

2.2 Protected Species

2.2.1 Mature trees often contain cavities, crevices and hollows that offer potential habitat for species such as bats and barn owls. Both are afforded protection under the Schedule 5 of the Wildlife and Countryside Act 1981 (as amended). Bats are also protected under The Conservation of Habitats and Species Regulations 2010 (as amended). Refer to Rachel Hacking Ecology report for further details.

2.3 Wildlife Habitats

2.3.1 Trees and hedgerows of most species provide valuable nesting sites for a wide range of birds and it is likely that nesting birds will be present on the site during the period March to September.

3.0 THE SITE

3.1 The site contains Cuerden Hall a Grade II* listed Hall with ancillary buildings that has most recently been used as a Sue Ryder Neurological Care Centre. It is set within extensive grounds that contain areas of woodland, a lake, and unkempt formal gardens/parkland.



Plate 2 - Site location plan

4.0 DEVELOPMENT PROPOSAL

- 4.1 Redevelopment of existing hall from care home to residential dwelling.
- 5.0 GENERAL CONSTRAINTS DATA CONSTRUCTION EXCLUSION ZONES (CEZ's)

5.1 GENERAL

- 5.1.1 The three phases of an AIA were outlined in Section 1. In addition, during the development process for retention trees, there may be three and even four constraints to consider: Construction Exclusion Zone (CEZ's):
 - CEZ 1: Root Protection Area (see 5.2)
 - CEZ 2: Tree Crown Protection (see 5.3)
 - CEZ 3: Tree Dominance (see 5.4)
 - CEZ 4: New Tree Planting Zone (see 5.5)

CEZ's are explained below:

5.2 CEZ 1: ROOT PROTECTION AREA (RPA)

- 5.2.1 The RPA, calculated in m2, should be protected before and during any demolition/construction works. This ensures the effective retention of trees by safeguarding a reliable quantum of functioning tree roots. The RPA is based on a radial measure from the centre of the tree stem, which is calculated by multiplying the stem diameter by a factor of twelve or by the (mean stem diameter²) x number of stems for multi-stemmed trees. With the AIA 1, the RPA is only shown indicatively on the preliminary TCP, as its shape may be subject to amendment as the design progresses.
- 5.2.2 During the AIA 2, the derived radial measure is converted by the arboriculturalist into the actual area to be protected, having due regard to prevailing site conditions and how these may have affected the tree(s), particularly in relation to factors affecting their likely rooting disposition. The RPA for each tree should initially be plotted as a circle centred on the base of the stem. Where pre-existing site conditions or other factors indicate that rooting has occurred asymmetrically, a polygon of equivalent area should be produced. Modifications to the shape of the RPA should reflect a soundly based arboricultural assessment of likely root distribution.
- 5.2.3 The means of protecting the RPA will include the installation of tree protective fencing prior to the start of any demolition or construction work on site. The prohibition of various activities within the RPA must be adhered to (e.g. mechanical excavation, soil stripping, fire lighting, material storage, lowering levels and creating excessive sealed surfacing) and may include the use of temporary ground protection and/or special engineering solutions where construction is proposed near to retention trees or within the RPA.

5.3 CEZ 2: TREE CROWN PROTECTION ZONE

5.3.1 This is the area above ground occupied by the crown (branches) of the tree, along with allowances for working space (safe working area) and if appropriate, for future growth. The extent of CEZ 2 is determined by considering the existing and future crown spread of the tree(s), bearing in mind the possibility of this being modified by an acceptable quantum of pruning.

5.4 CEZ 3: TREE DOMINANCE ZONE

- 5.4.1 This is the area above ground dominated by the tree in relation to issues of shading, seasonal debris and safety apprehension. This area is calculated by considering the height and spread of the tree relative to the proposed buildings, cross referenced with intended end use. As such, what is assessed is the likely psychological effect of the tree on the end user.
- 5.4.2 The purpose of identifying CEZ 3 is to protect trees from post development pressure (resentment) by the site's end users, who may, if resentful of the trees, seek to procure excessive pruning treatments or even to have them removed.
- 5.4.3 The means of protecting CEZ 3 is likely to include optimising the site layout and room type (especially in relation to new residential dwellings), such that any adverse psychological impacts of the trees are reduced to an acceptable minimum. Key principles include ensuring adequate separation distances between trees and new buildings, in the context of the buildings' end use relative to the location of the tree(s) and avoiding excessive obstruction by trees of critical solar access.

5.5 CEZ 4: NEW PLANTING ZONE

5.5.1 In some cases, it may be appropriate to identify and protect areas intended for new landscape planting, which can fail to establish if the soil has been heavily compacted or contaminated during the demolition/construction process. The means of protecting CEZ 4 will either be by fencing it off prior to the start of works on site, or by soil remediation once construction has finished (and prior to the start of planting). Topsoil protection in areas destined for new planting is frequently an economy measure, saving on plant replacement and soil structure remediation.

6.0 SURVEY METHODOLOGY

- 6.1 The method used in the preparation of this report is based on the principles of BS 5837: 2012.
 - 1. Tree heights were surveyed to the nearest 1m.
 - 2. Trunk diameters were measured by use of forestry girth tape
 - The category assessment (Table 1) on which the trees is based include current and long-term arboricultural, landscape, cultural and conservation values (BS5837: 2012). This table can be found at *Appendix 1*
 - 4. For clarity, the grading system is summarised from *Table 2* of the BS as follows:

U grade – trees for removal, effective for less than 10 years

A grade – trees of high quality and value, effective for more than 40 years

B grade – trees of moderate quality and value, effective for more than 20 years

C grade - trees of low quality and value, effective for 10 years

Note: We have indicated colour coding on the drawing and therefore a monochrome copy should not be relied on.

6.2 SOIL ASSESSMENT

- 6.2.1 A soil assessment should be undertaken by a competent person to inform decisions relating to:
 - the root protection area (RPA)
 - tree protection
 - new planting design; and
 - foundation design to take account of retained, removed and new trees (potential soil subsidence/heave)

Tree Solutions do not undertake soil assessments and the client is advised to seek specialist advice in this respect.

7.0 JUXTAPOSITION OF TREES AND STRUCTURES

7.1 Below ground constraints

- 7.1.1 The below ground constraints are generally summarised as the root protection area (RPA). The shape of the RPA and its exact location will depend upon arboricultural considerations including likely tolerance of the tree to root disturbance; morphology and disposition of the roots when known influenced by past or existing site conditions; soil type and structure; and topography and drainage.
- 7.1.2 The purpose of the RPA is to prevent physical damage to tree roots and to prevent damage to the soil structure. Tree roots are damaged by soil compaction, changes in soil levels or soil contamination which could reduce tree health and/or stability.
- 7.1.3 Root patterns are affected by topography and characteristics of the soil or substrate. Where trees are located within proximity to existing hard standing or underground physical barriers, they are unlikely to have an even distribution of lateral roots due to restrictions in root growth created by compacted sub-grades beneath. The RPA of trees adjacent to the main hall, stables and southern section of the lake have been modified and are shown running in line with the building and edge of lake. The RPA volume has been maintained by extending further in the opposite direction where a more favourable rooting environment exists. The RPA of trees to the north of the lake have been plotted unmodified as the lake in this area has silted over and now contains naturally colonised woodland. All other RPA's have been plotted unmodified as there were no significant underground barriers present to prevent good radial root spread.

7.2 Underground Services

- 7.2.1 We have considered the broad implications of the provision of underground services but the locations of existing and proposed were not identified on the plans supplied and, in this regard, our advice is of a general nature.
- 7.2.2 As the proposal is predominantly redevelopment works, the existing service runs will be utilised where possible.
- 7.2.3 Drainage and service runs may need to be constructed within the rooting areas of retained trees. If this is a requirement of the development it will be necessary to retain significant roots and methods of excavation, such as thrust boring or hand digging, may need to be adopted to ensure that these impacts are acceptable.
- 7.2.4 As with foundation design, low impact construction methods for services installation are now well established. For more information regarding underground services, reference should be made to the National Joint Utilities Group (NJUG) Publication No. 10. Volume 4 'Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees' 2007.

8.0 DEVELOPMENT IMPACT TO TREES

- 8.1 Tree Solutions carried out a stage one preliminary tree survey and provided the project landscape architect with a report in which all existing trees and their respective Root Protection Areas (RPA) were identified and plotted on a tree constraints and impact assessment plan. The architect has incorporated the design and layout advice contained within the stage 1 survey and input from Tree Solutions to ensure the best quality trees can be retained with no significant adverse construction impacts. We are satisfied that the proposal has taken the long-term future of the most important trees into account and the layout is therefore in accordance with Chorley Council Planning Policies and recommendations contained with BS5837: 2012.
- 8.2 In order to accommodate the proposed redevelopment/restoration works it will be necessary to remove the following trees as detailed within the survey schedule:
 - > Tree numbers 2-20, 26, 29, 32, 33, 62, 63, 105, 124, 125
 - ➤ Group numbers G1-G4, G15, G18
 - > Woodland numbers W3 & W4 trees within pond only

Tree Retention Category	Numbe	r of Trees Lost to Developn	nent
	Individual	Group	Woodland
Α	0	0	0
В	15	4	2 sections
С	13	2	0

- 8.3 Trees surveyed within this report cover those on and adjoining any potential construction or landscape restoration/enhancement works as per guidance contained within the BS. These trees represent a small number of those present within the wider grounds that are all retained and unaffected by this proposal. It is worth noting that no high value 'A' category trees are to be removed and those listed above are all moderate 'B' to low 'C' category. Trees to be removed are predominantly semi-mature specimens planted in and around the main hall and offer little individual or collective amenity or landscape benefits to the listed site or wider locale. Removal allows for the grounds to be completely restored and enhanced as detailed within the landscape proposals with many new specimen trees being included within the scheme. This restoration proposal is a unique opportunity to see these unmanaged grounds brought back into formal management and as such we can see no valid arboricultural grounds for refusal.
- 8.4 There are several construction impacts to retained trees as listed below:
 - 1. The proposed extension to the southern gable of the stable block encroaches within the RPA of tree number 25. Whilst this incursion is marginal <3m, the NW corner of the building will be supported on a pile and beam foundation in order to prevent any damage to underlying tree roots. Details of the foundation design will be submitted by the project structural engineer and will comply with the recommendations contained at section 7.5 of BS5837: 2012. Tree protection measures during construction will be documented within the Arboricultural Method Statement (AMS) and Tree Protection Plan (TPP).

- 2. Footpath links through the 'woodland walk' that run within the RPA of tree number 34 will be installed by hand, the use of mechanical excavator is prohibited. A geotextile membrane will be laid below the hummus layer with a top dressing of bark chippings. There will be no adverse impact on the future health and vitality of this important tree as a result of the works.
- 3. The proposed polytunnel and compost store encroaches slightly within the RPA of tree number 34. There will be no adverse impact as the floor slab will be concrete paving slabs dry-bedded with a timber edge restraint. No excavation in the construction exclusion zone is proposed.
- 4. The vehicular access road is to be realigned within the RPA of tree number 30. In order to comply with the provisions of the BS this road section will be installed to a no-dig design specification using a three-dimensional cellular confinement system such as 'Infraweb' or 'Cellweb'. A detailed specification including cross sections will be submitted by the project structural engineer for approval by the Council. Installation will typically involve the removal of the existing turf and installing of a layer of plastic cells above a geotextile membrane. The cells will be back filled with a free draining washed stone that contains no fines in order to help maintain adequate gaseous diffusion for tree roots below. The top dressing will be a porous material to be agreed with the LPA. This specification complies with recommendations contained within para. 7.2 of BS5837: 2012. The rooting environment of this tree will be markedly improved as a result of the existing road to the NE being removed, subsoil decompacted and returned to open grass. This area will also be ameliorated by mycorrhizal inoculant during the landscape restoration works. Tree protection details can be included with the AMS & TPP.

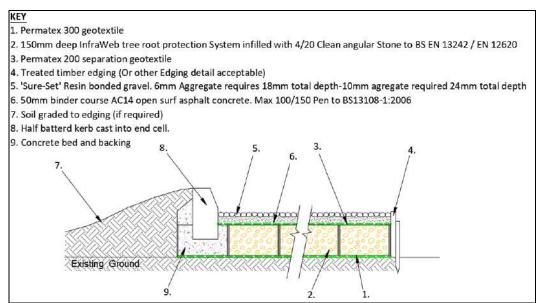


Plate 3 - Example cross section of no dig road section with porous resin bonded gravel surface dressing

- 5. The proposed new vehicular car park encroaches within the RPA of tree numbers 31, 59-61. As for the new road section, the northern parking bays will be laid to a no-dig design specification with a porous surface dressing. A full specification with cross sections will be submitted by the project structural engineer for approval. Tree protection measures will be detailed within the AMS & TPP.
- 6. The location of the proposed gate lodges has been realigned to fall outside the RPA of tree number 129 ('A' category Beech) following consultation with Tree Solutions. We advised that a slight incursion within the RPA of tree number 122 ('B' category Sycamore) would be preferable as this tree would tolerate some minor disturbance better that the shallow rooted fully mature Beech. We are satisfied that this minor incursion is less that the 20% tolerance specified with the BS and as such is acceptable as it will have no long-term adverse impact on the health and vitality of this tree. The excavation for the foundation can be undertaken by hand or air spade under the direct supervision of the project Arboricultural consultant who will be responsible for any root pruning if found to be necessary. Note, the removal of trees marked within the vicinity will enhance the site entrance by restoring the formal landscape character and increase the amenity value afforded by the retained trees in particular the magnificent Beech (T129).

- 7. The large pond to the NE is to be reinstated to its former glory as part of the restoration of the grounds. This area has been left unkempt for many years resulting in areas being completely silted up with a subsequent mass of small diameter first-generation scrub naturally colonising. The trees within the pond area will require removal as part of the restoration works, the visual impact of this will be minimal as they are completely screened from any vantage point outside the site boundary by the surrounding established woodland. As such there will be no adverse impact on the landscape character and setting of the listed building. These works should be considered as landscape enhancement and in arboricultural terms acceptable.
- 8. In order to dredge the pond as point 7 above, large plant will require access. In order to prevent damage to any retained trees, ground protection boards such a 'bog mats' will be laid from the existing driveway to the pond. The alignment will run within the RPA of tree numbers 86 & 88 and wherever possible will avoid the RPA of tree numbers 79 & 89. Details of the exact route will be included on a TPP and detailed within the AMS.



Bog mat example

9.0 PROPOSED REVISIONS TO THE SCHEME

9.1 We advise that all proposed revisions having implications for trees should be referred to us for review.

10.0 CONCLUSIONS

- 10.1 BS 5837: 2012 contains clear and current recommendations for a best practice approach to the assessment, retention and protection of trees on development sites. The proposed development has followed this guidance by:
 - Seeking arboricultural advice and undertaking a phase 1 preliminary tree survey in order to inform the layout and design of the proposed development
 - Respecting the constraints posed to development of the site by high or moderate quality trees
 - Acting upon arboricultural advice throughout the design process in order to obtain the best development proposal whilst considering the current and future tree requirements
 - All tree protection measures can be detailed within an Arboricultural Method Statement and Tree Protection Plan if made a condition of consent

11.0 LIMITING CONDITIONS

Unless stated otherwise:

Information contained in this report covers only those trees that were examined and reflects the condition of those trees at the time of the inspection.

The inspection is limited to visual examination of the subject trees from ground level only and without dissection, excavation, probing or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the subject trees may not arise in the future.

This report has been prepared for the sole use and benefit of the client. Any liability of Tree Solutions shall not be extended to any third party.

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CONTACT

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Appendix One

Tree Survey Schedule

TDEE	SURVEY SO	^UE	DILLE	/RCE9	27. 1	0012	\				Tree Solutions					
IINLL .	JONVET 30	CIIL	DOLL	(D336	37.2	2012	,									
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Site	CUERDEN HALL, C	HUKLI	<u> Y</u>								Surveyor Assessment Dates		LL PEARCE 2021 to 12.03.2021		Pag	e 1 of 11
Client	MR C SHENTON ARBORICULTURA	LINADA	CT ACCECC	ACNT									2021 to 12.03.2021			
Brief	ARBORICULTURA	L IIVIP <i>P</i>	CI ASSESSI	VIEINI							Viewing Conditions Job Reference	GOOD	/CHORLEY/12			
Tree Number	Name	Age	Height	Crown clear	North	East	South	West	Diameter	Vitality	Comments	E.R.C	Management	Category	RPA (m)	RPA (m²)
T1	Oak	SM	6	2	4	4	4	4	220	G	Pruning wounds from previous crown lift. Located in maintained lawn.	20+	No action required	B1	2.6	22
T2	Holly	EM	6	1.5	2.5	2	3	3	320	М	Reduced crown density. Previously topped at 5m	10+	Remove for development	C1	3.8	46
Т3	Holly	EM	8	1.5	2.5	2.5	2.5	2.5	290	10	Remove for development	C1	3.5	38		
T4	Cypress	Υ	5	0	1	1	1	1	150	G	Nothing to note	10	Remove for development	C1	1.8	10
T5	Leyland Cypress	Υ	2	0	0.5	0.5	0.5	0.5	70	G	Maintained at current dimensions	10	Remove for development	C1	1	2
Т6	Holly	EM	5	2	2	3	2	3	280	G	Interesting squat spreading form.	20	Remove for development	B1	3.4	35
T7	Holly	SM	3	1	1.5	1.5	1.5	1.5	150	М	pruning points.	10	Remove for development	C1	1.8	10
Т8	Cotoneaster	EM	3	0	2	0	2	2	160	М	Previously topped at 1.5m. Low aesthetic value.	10	Remove for development	C1	1.9	12
Т9	Norway maple	SM	6	2	3	5	4	4	250	G	Large pruning stem wound at 1.25m on NW side	20	Remove for development	B1	3	28
T10	Goat willow	EM	11	3	6	7	6	6	450 350 (570)	G	Twin stemmed at base with acute union. Minor deadwood throughout crown.	20	Remove for development	B1	6.8	147
T11	Silver birch	EM	14	2	4	4	4	4	370	G	Minor stem sweep below 1.5m Good form.	20	Remove for development	B1	4.4	62
T12	Hiba	Υ	4	0	1.5	1.5	1.5	1.5	85	G	Nothing to note	10	Remove for development	C1	1	2
T13	Crab apple	EM	7	1.5	3	3	4	3	250	М	Stem abutting wall at base. Minor lean to SE.	20	Remove for development	B1	3	28
T14	Cypress	SM	5	0	1.5	1.5	1.5	1.5	150	G	Nothing to note	10	Remove for development	C1	1.8	10
											HEADINGS & ABBREVIATIONS					
TREE NO.				REFERENCE NUM	MBER. REFER TO	PLAN OR NUM	BERED TAGS WHE	RE APPLICABLE (T	= TREE, G = GROUP, H = I	HEDGE)						
SPECIES NAME:				COMMON NAM	E (LATIN NAMES	AVAILABLE ON	REQUEST)									
AGE RANGE/LIFE ST	AGE:			Y = YOUNG, SM	SEMI MATURE	, EM = EARLY N	IATURE, M = MATI	JRE, PM = POST N	MATURE							
HEIGHT:				ESTIMATED AND	RECORDED IN I	METRES. APPRO	IXIMATELY 1 IN 10	TREES ARE MEAS	UREd USING A CLINOME	TER AND THE REMAI	NDER ESTIMATED AGAINST THE MEASURED TREES					
CROWN SPREAD:				MAXIMUM CRO	WN RADIUS ME	ASURED TO THE	FOUR CARDINAL	COMPASS POINTS	FOR SINGLE SPECIMENS	ONLY (MEASUREME	NT FOR TREE GROUPS - MAXIMUM RADIUS OF THE GROUP)					
CROWN CLEARANCE	& DIRECTION OF GROWTH:			HEIGHT IN METE	RS OF CROWN	CLEARANCE ABI	OVE ADJACENT GR	OUND LEVEL (TO	INFORM ON GROUND CL	EARANCE, CROWN/S	TEM RATIO AND SHADING)					
STEM DIA/MULTI-ST	TEM DIA:								EVEL OR A COMBINATION		.TI-STEMMED TREES					
VITALITY:							= DEAD, MD = MO	RIBUND, P = POO	R, M = MODERATE, G = G	00D						
-	REMAINING CONTRIBUTION:				L LIFE EXPECTAL		OLIALITY AND	UE C-10W 2	LUTY AND VALUE 1:	CUITABLE FOR CETT	NATION (CITE CATECODY REFERE TO ARRODIC HATINAL LAMPSCARE AND CHATINAL (COMPANY AND CHATINAL)					
BS 5837CATEGORY	& SUB-CATEGORY GRADING			A = HIGH QUALI	IT AND VALUE, I	s = MUDEKATE	QUALITY AND VAL	.oe, c = LOW QUA	ALIIT AND VALUE, U = UN	SULLABLE FUR RETE	NTION (SUB-CATEGORY REFERS TO ARBORICULTURAL., LANDSCAPE AND CULTURAL/CONSERVATION VALUES)					
BS 5837 RADIUS & E	IS 5837 RPA:			PROTECTIVE DIS	TANCE - RADIUS	FROM THE CEI	ITRE OF THE STEM	TO THE LINE OF	TREE PROTECTION (CONS	TRUCTION EXCLUSION	ON ZONE - CEZ) AND PROTECTIVE BARRIER ROOT PROTECTION AREA - BS 5837 (2012) ANNEX D (THE RECOMMENDATIO	INS STATE THA	AT THE RPA SHOULD BE CAPPED AT 707 M ²) NOTE – ALL CALCU	JLATIONS ROUNDED TO NEAR	REST DECIMAL	

TREE	SURVEY S	СНЕ	DULE	(BS58	337: 2	2012)				Tree Solutions					
	T										Arboricultural Consultants	1				
Site	CUERDEN HALL, (CHORLE	Υ								Surveyor		LL PEARCE		Pag	e 2 of 11
Client	MR C SHENTON										Assessment Dates		2021 to 12.03.2021			
Brief	ARBORICULTURA	L IMPA	CT ASSESSI	MENT							Viewing Conditions	GOOD				
Tree Number	Name	Name Age Height Crown clear North East South West Diar						West	Diameter	Vitality	Job Reference Comments	E.R.C	/CHORLEY/12 Management	Category	RPA (m)	RPA (m²)
T15	Oriental arborvitae	SM	8	0	2	4	4	4	230	G	Minor asymmetry due to proximity of adjacent tree (T16)	20	Remove for development	B1	2.7	24
T16	Yew	SM	6	0	2	2	0	2	220	G	Shaded slightly and suppressed by adjacent tree	20	Remove for development	B2	2.6	22
T17	Amalanchier	SM	4	2	2	2	1.5	1	120	G	Nothing to note	20	Remove for development	B1	1.4	7
T18	Zelkova serrata	SM	6	0.5	3	4	4	4	100 140 120 120 (242)	G	Multistemmed at base with acute compression fork. Pruning wounds from previous crown lift.	20	Remove for development	B1	3	26
T19	Zelkova serrata	SM	2	0	2	2	2	2	90	М	Twinstemmed at base with acute compression fork. Previously topped at 1.25m. Unsightly tree with low aesthetic value.	10	Remove for development	C1	1	4
T20	Ash	EM	14	3	5	4	4	4	420	М	Codominant at 2.25m with acute primary union. Crossing branches in crown. Base of stem abutting wall.	20	Remove for development	B1	5	80
T21	Ash	EM	12	2	4	4	4	4	180 200 290 (396)	М	Nothing to note	20	No action required	B1	4.7	71
T22	Ash	SM	12						310	D	Deadwood throughout crown. Crown retrenching.	0	Remove	U	N/A	N/A
T23	Zelkova serrata Unidentified	EM	12	2	6	6	6	6	230 280 290 (464)	G	No access to stem. Nothing to note.	20	No action required.	B1	5.6	97
T24	dead tree	SM	6	0					230	D	Dead tree.	0	Remove	U	N/A	N/A
T25	Pine	FM	20	4	7	6	6	6	680	G	No access to stem. Dense vegetation. Stunning tree. Ivy covering most of stem.	40	No action required.	A1	8	209
T26	Holly	SM	7	0	5	4	3	2	230 240 (332)	G	Dbh est. Dense veg	20	Remove for development	B1	4	50
T27	Holly		9						290	D		0	Remove	U	N/A	N/A
T28	Sycamore	FM	24	4	8	9	6	7	1130	G	Excellent specimen. Large burr to north side at 2m. Large deadwood in crown. Ivy covering much of stem, inclusive of primary union at 9m.	40	Remove ivy and reinspect.	A1	14	578
T29	Lawsons cypress	SM	10	0.5	3	3	3	3	250 250 (354)	Μ	Codominant at 1m with included union compression fork, ears forming.	10	Remove for development	C1	4.2	57

TREE SURVEY SCHEDULE (BS5837: 2012)

Tree Solutions

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Art	DOFICU	iturai	Consu	ltants

Site	CUERDEN HALL, CHORLEY	·					Surveyor	RUSSEL	L PEARCE	ł	Page	e 3 of 11
Client	MR C SHENTON						Assessment Dates	10.03.2	021 to 12.03.2021	1		
Brief	ARBORICULTURAL IMPACT	T ASSESSI	MENT				Viewing Conditions	GOOD		1		
							Job Reference	21/AIA	/CHORLEY/12	1		

											Job Reference	ZI/AIA	/CHURLEY/12			
Tree Number	Name	Age	Height	Crown clear	North	East	South	West	Diameter	Vitality	Comments	E.R.C	Management	Category	RPA (m)	RPA (m²)
													Prune back to previous reduction		12	452
T30	Lime	м	10	1	7	6	7	7	1000	М	Dbh estimated. Dense epicormics prevented detailed inspection. Previously reduced with extensive regrowth.	20	points. Remove epicormic growth to 6m.	B1		
130	Line	IVI	10	1	,	0	,		1000	IVI	Reduced crown density. Some lions tailing. Possibly in early	20	oni.	DI		
T31	Sycamore	М	18	6	9	9	7	2	900	М	stages of decline.	20	Monitor	B1	11	366
											Strip or barl missing to stem on SE side some deadwood in				14.5	652
											large hazard beam limb distal. Percussion test indicates some					
T32	Beech	FM	24	4	12	12	12	12	1200	М	decay at base of stem.	20	Remove for development	B1		
T33	Horse Chestnut	М	19	4	6	6	8	8	740	М	Dense ivy covering stem.	20	Remove for development	B1	8.8	248
											Dbh est, dense veg. Excellent specimen. Minor historic branch				15	707
T34	Beech	FM	19	2	9	8	8	8	1400	G	snap outs. Codominant from 6m.	40	No action required.	A1		
T25	B I	γ	4	_	_	_	_		200	6	Crown previously failed. Lateral branches now forming poorly				N/A	N/A
T35	Beech	<u> </u>	7	2	2	2	2	2	200	G	secured crown	0	Remove	U	3.6	41
T36	Cherry	SM	6	1	2	4	4	4	300	P	Suppressed by adjacent trees.	10	No action required.	C1		
T37	Lime	EM	18	0.5	5	5	3	3	420	G	No defects noted.	20	No action required.	B1	5 7	80 157
T38	Horse chestnut	EM	18	0.5	5	5	5	5	590	G	No defects noted	20	No action required.	B1		
T39	Scots pine	EM	20	2	6	6	6	6	660	М	Ivy covered stem	20	No action required.	B1	7.9	197
T40	Scots pine	EM	21	1	4	6	6	6	670	G		20	No action required.	B1	8	203
T41	Lebanon	М	22	2	6	6	7	6	980	G	Excellent specimen. Shed shaded limbs in lower crown.	40	No action required.	A1	12	435
T42	Norway maple	EM	16	1	5	5	4	5	360	G	No defects noted.	20	No action required.	B1	4.3	59
T43	Maple	М	20	2	6	6	6	6	610	G	Trifucates at 5m.with acute unions.	20	No action required.	B1	7.3	168
T44	Scots pine	М	20	6	5	4	3	4	530	G	Single straight slender stem.	20	No action required.	B1	6.3	127
											Dbh estimated. Wide trifurcation at 4m, possible historic loss				6.5	132
T45	Larix decidua	М	18	1	9	6	3	5	540	G	of central leader.	10	No action required.	C1		
T46	Scots pine		18	3					430	Р	Percussion test indicates significant decay at base of stem	0	Remove.	U	N/A	N/A
T47	Larix decidua	М	18	2	7	6	4	6	560	G	No defects noted.	20	No action required.	B1	6.7	142
T48	Holly	EM	20	0.5	3	3	3	3	430	G	Single slender stem.	20	No action required.	B1	5	84
T49	Deodar cedar	М	17	1	6	5	4	5	790	G	Slightly suppressed by adjacent trees.	10	No action required.	B1	9.5	282
TEO	Sycamore	SM	11	1	4	3	3	3	290	6	Slightly suppressed by adjacent trees. Dense ivy covering stem and primary branch framework.	20	Remove for development	C1	3.5	38
T50	Sycamore	SIVI	11	1	4	3	3	3	290	G	and primary branch framework.	20	Remove for development	C1		

TREE SURVEY SCHEDULE (BS5837: 2012)

Tree Solutions

INEL	E 30KVEY 3CHEDULE (B33837: 2012)										Arboricultural Consultants					
											Arboricultural Consultants					
Site	CUERDEN HALL,	CHORLE	Y								Surveyor	RUSSE	LL PEARCE		Pag	e 4 of 11
Client	MR C SHENTON										Assessment Dates	10.03.	2021 to 12.03.2021			
Brief	ARBORICULTURA	AL IMPA	CT ASSESS	MENT							Viewing Conditions	GOOD				
	-										Job Reference	21/AIA	/CHORLEY/12			
Tree Number	Name	Age	Height	Crown clear	North	East	South	West	Diameter	Vitality	Comments	E.R.C	Management	Category	RPA (m)	RPA (m²)
T51	Beech	М	22	1	10	8	7	7	790	G	Open well balanced crown.	20	No action required.	B1	9.5	282
T52	English oak	FM	16	0.5	8	9	9	7	1070	G	Open well balanced crown, slightly suppressed to the south. Some large old pruning wounds with cavities developing. Potential future veteran tree.	40	No action required.	A1	12	518
T53	Sycamore	М	18	4	6	6	6	6	630	М	Dense ivy throughout stem and crown.	20	Remove ivy and reinspect.	B1	7.5	180
T54	Oak	М	18	5	6	6	6	6	650	M	Large deadwood within crown	20	No action required	B1	7.8	191
T55	Oak	М	18	4	7	7	7	7	700	М	Large deadwood within crown.	20	No action required	B1	8.4	222
T56	Oak	EM	17	2	6	6	6	3	450	G	Deadwood throughout crown	20	No action required	B1	5.4	92
T56a	Oak	EM	16	4	4	5	4	4	320	М	Deadwood throughout crown	20	No action required	B1	3.8	46
T57	Sycamore	М	22	5	8	8	8	8	1050	М	Numerous large limbs previously shed. Deadwood in crown.	20	No action required	B1	12.6	499
T58	Sycamore	М	20	4	5	3	5	5	670	G	Minor deadwood in crown.	20	No action required	B1	8	203
T59	Sycamore	М	22	5	6	6	6	6	680	G	Dense ivy cover stem and primary union.	20	No action required	B1	8.2	209
T60	Sycamore	M	26	6	6	4	6	6	830	G	Dense ivy cover stem and primary union.	20	No action required	B1	10	312
T61	Sycamore	М	21	2	5	5	5	6	620	G	Dense ivy cover stem	20	No action required	B1	7.4	174
											Dense ivy cover stem. Imbalanced crown due to neighbouring		·			
T62	Sycamore	M	24	3	6	6	6	3	980	G	tree that has ben removed.	20	Remove for development	B1	11.7	435
T63	Beech	EM	12	0	6	6	6	6	380	М	Squat form. Possibly historically topped at 1m.	10	Remove for development	C1	4.5	65
T64	Beech	М	12	1.5	2	5	6	5	600	G	Twin-stemmed, codominant at 1.5m. Slender limbs.	20	No action required	B1	7.2	163
T65	Turkey oak	М	25	1	8	7	7	7	1000	G	Pruning wounds and minor deadwood.	40	No action required	A1	12	452
T66	Sycamore	SM	16	2	4	4	4	4	360	М	Suppressed with slender phototropic growth. Dense ivy covering stem.	10	No action required	C1	4.3	59
T67	Sycamore	SM	16	5	4	5	5	5	370	М	Suppressed with slender phototropic growth. Dense ivy covering stem.	10	No action required	C1	4.5	62
T68	Turkey Oak	М	24	6	10	2	8	9	840	Р	Multiple large limb tearouts, imbalanced crown as a result. Potential veteran.	40	No action required	A1	10	319
T69	Oak	Y	6	0.5	3	3	3	3	120	G	No defects noted.		No action required	C1	7	1.4
103	Oak	- '	U	0.5	3	3	3	3	120	U	No defects floted.	10	No action required	CI	7.2	163
T70	Turkey oak	М	20	1	0	0	8	7	600	G	Heavily imbalanced asymmetric crown due to prox of adjacent trees. Dense ivy covering stem and primary branch unions.	20	No action required	B1	7.2	103
	,										Heavily imbalanced asymmetric crown due to prox of adjacent trees. Dense ivy covering stem and primary branch unions.		·		3.5	38
T71	Sycamore	SM	18	1	2	2	6	4	290	M	Slender growth. Suppressed.	10	No action required	C1		<u> </u>
T72	Turkey oak	M	22	2	6	7	8	7	610	G	Large deadwood within crown.	20	No action required	B1	7.3	168
T73	Turkey oak	EM	22	6	0	2	5	2	410	G	Slender phototropic growth. Imbalanced crown	10	No action required	C1	4.9	76
T74	Sycamore	M	20	2	5	5	5	5	580	G	Acute union, codominant at 5m.	20	No action required	B1	6.9	152

Tree Solutions TREE SURVEY SCHEDULE (BS5837: 2012) Arboricultural Consultants CUERDEN HALL, CHORLEY RUSSELL PEARCE Site Page 5 of 11 Surveyor MR C SHENTON 10.03.2021 to 12.03.2021 Assessment Dates Client ARBORICULTURAL IMPACT ASSESSMENT Brief Viewing Conditions 21/AIA/CHORLEY/12 Job Reference Tree Crown RPA Name Age Height North East South West Diameter Vitality Comments E.R.C Management Category Number clear (m) (m²) Open cavities at base with some decay. Suppressed 4.8 72 EM T75 Sweet Chestnut 16 0 4 4 400 Μ asymmetric crown. No action required C1 1 T76 Turkey oak EM 22 12 6 4 6 5 640 G Slender phototropic growth. Deadwood anf stubs in crown 20 No action required 7.7 185 В1 5.4 92 T77 Turkey oak EM 23 10 5 3 5 450 Dense ivy covering stem. Slender phototropic growth. No action required В1 480 580 Twin-stemmed at 1m, with acute included union and bupge, T78 Beech Μ 25 1.5 6 6 6 (753)no current natural braces. 20 No action required В1 14.5 652 Potential veteran in future. Excellent specimen. Minor stem.lean to east. Deadwood in crown. Small open cavity at М 9 1200 base to north, limited decay. T79 Sweet chestnut 18 10 Α1 1 No action required 21 4 4 4 480 T80 Beech 2 4 G Slender phototropic form. No action required B1 5.7 104 Large deadwood within crown. Large stubs within crown. Atop T81 English oak M 21 2 6 6 8 6 710 pond embankment. 20 No action required В1 8.5 228 Dense veg. Long slender stem. Dense ivy - stem and primary T82 Turkey oak EM 18 8 5 3 3 310 branch frameworks. 10 No action required C1 3.7 5 T83 Alder М 19 7 6 5 5 700 Excellent specimen. Single upright straight stem A1 8.4 222 No action required Deadwood in lower crown. On pondside embankment <1m T84 Alder EM 18 1 2 4 440 20 No action required В1 5.2 88 Tree in decline. Significant dieback in upper centre of crown. Multiple.limbs have been shed. Acute primary union at 1m. included, codominant. N/A T85 No action required N/A Sycamore Multiple small cavity at old pruning wounds. Sligjtly reduced Μ T86 16 10 770 crown density. No action required В1 9.2 268 Sycamore T87 М 14 1.5 4 5 6 5 730 Dense ivy covering stem and primary branch framework. B1 8.7 241 English oak 20 Remove ivy and reinspect. Dense basal epicormics prevented detailed inspection. Prinary union at 6m - codominant. Previously reduced with extensive Reduce to previous reduction points regrowth. Large parts of the regrowth is retrenching. approx 4-6m M 6 9 7 7 950 В1 11.5 408 T88 Lime 22 2 Excellent specimen. Broad balanaced open crown. Large historically occluded pruning wpunds from past crown lifts. Deadwood throughout. Snapouts present. Past husbandry within crown. Possible deadwood removal or crown clean Turkev oak 19 1.5 17 16 13 14 1300 required. Hazard beams in lower crown. 40 No action required. Α1 15 707 T89 Minor deadwood in crown. Minor suppression by larger Reduce to previous reduction points -22 2 7 5 480 approx 4-6m 5.7 T90 Turkey oak Μ 6 8 adjacent trees. В1 104 Minor deadwood. Minor supression due to proximity of larger

adiacent trees

20 No action required.

В1

580

T91

Turkey oak

М

22

2

10

8

Tree Solutions TREE SURVEY SCHEDULE (BS5837: 2012) Arboricultural Consultants CUERDEN HALL, CHORLEY Site **RUSSELL PEARCE** Page 6 of 11 Surveyor MR C SHENTON 10.03.2021 to 12.03.2021 Assessment Dates Client ARBORICULTURAL IMPACT ASSESSMENT GOOD Brief **Viewing Conditions** 21/AIA/CHORLEY/12 Job Reference Tree Crown RPA Name Age Height North East South West Diameter Vitality Comments E.R.C Management Category Number clear (m) (m²) Poor form. Bulge and kink in stem at 1.5m. Small crown. Dense EM 3 5 6 2 380 ivy covering stem. Minor deadwood.in crown. 4.5 65 T92 Weeping willow 14 4 M 10 Remove ivy and reinspect. C1 Snapped out limb in upper centre of crown. Well balanced EM 340 T93 London plane 14 1.5 7 5 6 5 G crown. 20 No action required. В1 4 52 2 2 T94 EM 6 0.5 5 4 240 2.9 26 Spindle tree Nothing to note. No action required. C1 Twin stemmed at base. Dense ivy covering stem and primary 460 400 branch framework. Minor deadwood throughout crown. Open T95 Ash М 18 1.5 6 8 7 (610) 20 No action required. В1 7.3 168 Large limb previously snapped out at 5m on NW side leaving stub. Large balanced open crown. Codominnant from 7m. T96 Horse Chestnut М 22 1 9 9 10 10 1330 Dogleg hazard beams in lower crown. 20 No action required В1 15 707 Multiple large historic snapouts with cavities. Large hazard 0 9 9 9 T97 Horse chestnut M 22 10 1420 beams x2 extending to the south, some helical limb wounds. 20 No action required В1 15 707 Historic included union tearout at 4.5m, partially occluded. T98 Scots pine Μ 19 2 3 3 3 550 Straight upright stem. 20 No action required. В1 6.6 137 Curved stem between 1m and 2.5m. Deadwood throughout T99 Scots pine М 17 1 5 5 5 5 630 lower crown. 20 No action required. В1 7.5 180 Dense basal epics. Deadwood throughout crown. Watershoots with centre of crown. Appears to be retrenching. With deadwood throughout crown periphery. Gnarled appearance. T100 Lime OM 18 0 7 7 7 7 1100 Veteran potential. 20 No action required. В1 12.2 547 М 7 1100 On 3rd party land. No access dbh est. Well balanced tree. 12.2 547 T101 Oak 18 6 20 No action required. B1 1 Dense vegetation prevented detailed inspection. x2 historic М 6 7 620 В1 7.4 174 T102 Oak 18 2 6 6 snap outs in upper crown. 20 No action required. 490 390 420 М 6 6 6 (754)В1 257 T103 Silver maple 16 Trifurcates at 0.5m. Minor deadwood throughout. No action required. М 7 7 7 7 T104 Zelkova serrata 12 1 7 590 Dbh est. Dense ivy throughout. Well balanced crown. 20 No action required. В1 157 G 8 T105 Leyland cypress M 14 1 4 680 Dbh est. Dense ivy throughout. Well balanced crown. Remove for development В1 209 T106 Red oak Υ 10 2 4 4 3 2 250 G No defects noted 10 No action required C1 3 28 400 T107 Red oak SM 14 0 5 5 5 5 G No defects noted 20 No action required В1 4.8 72 T108 Sycamore Υ 8 2 2 2 2 2 140 G No defects noted No action required C1 1.7 9 Dbh est. Dense ivy covering stem and primary branch

framework. Minor deadwood.

20 No action required

В1

10.7

358

890

T109

Turkey oak

М

23

3

Tree Solutions TREE SURVEY SCHEDULE (BS5837: 2012) Arboricultural Consultants CUERDEN HALL, CHORLEY Site **RUSSELL PEARCE** Page 7 of 11 Surveyor MR C SHENTON 10.03.2021 to 12.03.2021 Assessment Dates Client ARBORICULTURAL IMPACT ASSESSMENT GOOD Brief **Viewing Conditions** 21/AIA/CHORLEY/12 Job Reference Tree Crown RPA Name Age Height North East South West Diameter Vitality Comments E.R.C Management Category Number clear (m) (m²) Dbh est. Large ended weight limb to east side at 3m. Multiple large partially occluded pruning wounds below 8m. Large 7 7 7 T110 Turkey oak Μ 21 4 10 850 deadwood throughout crown. Overhanging understorey. 20 No action required В1 10.2 327 5 T111 Sycamore EM 22 2 4 4 5 490 Dbh est. Upright form. Acute union at 9m, codominant. No action required В1 5.9 109 EM 20 3 340 C1 4 52 T112 Sycamore 2 4 Dbh est. Suppressed by adjacent trees. No action required Dbh est. Suppressed by adjacent trees. Leaning stem. Decay at SM T113 Elder 0 Remove N/A N/A Dbh est. Dense ivy covering stem and primary branch EM 490 framework. 5.9 109 T114 Sycamore 18 2 5 5 5 20 No action required. В1 190 180 170 Dbh est. Multistemmed at base. Overhangs footpath. No T115 Cherry laurel EM 8 (312)defects note. No action required. C1 3.8 T116 М 22 6 6 6 Dbh est. Large balanced open crown. 20 No action required. 6 Sycamore 3 6 500 113 В1 Dbh est. Large balanced open crown. Minor deadwood through crown. Multiple occluded pruning wounds throughout Μ 22 8 9 9 9 720 stem and canopy. Codominant at 3m. 8.6 235 T117 Sycamore 40 No action required. A1 Dbh est. Large balanced open crown. Crown is retrenching. Deadwood throughout. Lesions and missing bark on numerous EM N/A N/A T118 Svcamore 0 Remove Dbh est. Dead tree with extensive stem decay within falling M distance of rd. N/A N/A T118a Sycamore Remove Dbh est. Acute included union at 2.5m. Some missing bark 4 6 6 430 close to union and on x1 stem. C1 5 T119 Sycamore Μ 19 2 4 10 Monitor union 84 Dbh est. Multistemmed at base x4. Long slender limbs from EM 19 0.5 6 6 6 400 10 No action required. В1 4.8 72 T120 Lime T121 Turkey oak EM 22 2 7 7 7 580 Deadwood throughout crown. Excellent specimen. No action required. Α1 7 152 Multistemmed at base with acute unions. Open balanced T122 Sycamore EM 15 2 7 450 20 No action required. В1 5.4 92 200 220 Dbh est. Twinstemmed at base. Suppressed weedy specimen. SM 2 5 5 3 3.5 T123 Sycamore 16 3 (297)Low aesthetic value 10 No action required. C1 40 Dbh est. Twinstemmed at 1.25m - codominant. History of branch loss and snapouts. Both leaders have been lost 500 500 historically. Multiple partially occluded pruning wounds from T124 Oak Μ 26 4 6 6 6 (707)previous crown lifts. 20 Remove for development B1 8.4 226 230 240 EM (332)50 T125 Sycamore 12 1.5 Dbh est. Twinstemmed at base. Suppressed by adjacent trees. Remove for development C1 T126 Sycamore М 16 2.5 5 1 6 6 560 М Suppressed by adjacent trees with imbalanced crown from. 20 No works 6.7 142 В1 Slender stem and small crown. Base of stem abutting concrete

driveway. Deadwood in lower crown. Dbh est.

20 No action required.

В1

6.6

137

T127

Sycamore

EM

27

3

4

4

550

Tree Solutions TREE SURVEY SCHEDULE (BS5837: 2012) Arboricultural Consultants CUERDEN HALL, CHORLEY RUSSELL PEARCE Site Page 8 of 11 Surveyor MR C SHENTON 10.03.2021 to 12.03.2021 Assessment Dates Client ARBORICULTURAL IMPACT ASSESSMENT **Viewing Conditions** Brief 21/AIA/CHORLEY/12 Job Reference Tree Crown RPA Name Age Height North East South West Diameter Vitality Comments E.R.C Management Category Number clear (m) (m²) Dbh est. Suppressed crown. Tearout wound to west upper EM T128 Ash 16 3 3 1 310 M 10 No action C1 3.7 43 1 1 Dbh est. Large spreading open crown. Excellent specimen. Deadwood throughout crown no targets. Some.long slender T129 Beech 22 0.5 10 8 8 1200 No action required. A1 14.4 2 470 T130 Lombardy poplar 22 6 2 2 G No access to stem - dense vegetation. No defects noted. 20 No action required В1 5.6 100 T131 Lombardy poplar 20 8 1.5 1.5 1.5 1.5 360 G No defects noted 20 No action required В1 4.3 59 Tree in decline x3 stem have all failed in upper crown. Retrenching. No access to stem. Dense vegetation and dense basal epicormics. Within falling distance of rd. Reduce to T132 17 0 4 600 Р habitat poles. 10 Reduce to habitat pole - 5m C1 7.2 163 4 ime T133 Turkey oak М 26 7 8 6 6 570 Good specimen. No defects noted. 20 No action required. В1 6.8 147 Lesions and missing bark throughout stem from 2m to 10m. М 6 6 6 600 Some lions-tailing in crown 10 Monitor for decline 7.2 163 T134 Sycamore 19 3 C1 5 5.7 T135 EM 20 4 4 5 2 480 Stright upright very slender stem. No action required. В1 104 Sycamore Sweep in stem from base to 2m. Bifurcation at 6m, co M 4 5 580 В1 7 152 T135a 20 4 6 4 dominant. Minor deadwood. 20 No action required. Sycamore Bifurcates at 7m. Longitudinal wound from base to 10m with Further decay detection analysis and some cavitation. Reduced density crown. Within falling aerial inspection or sunstantial М 23 8 880 distance of road. reduction. 10.5 350 T136 Turkey oak 14 4 10 C1 SM 0.5 4 2 2 2 3.4 18 280 Suppressed tree of low aesthetic value. No action required. 35 T137 Sycamore C1 Dense ivy covering stem and primary branch framework. М 6 6 6 680 В1 8 209 T138 Sycamore 24 4 4 Previously pruned back over road. 20 No action required. Large historic pruning wounds from previous crown lifts. High M 820 T139 Turkey oak 20 6 11 crown break at 10m. No action required. A1 9.8 304 470 T140 Turkey oak EM 20 8 6 6 6 6 No access. Minor deadwood throughout. 20 No action required. B1 5.6 100 T141 Turkey oak EM 20 6 6 6 6 6 470 No access. Minor deadwood throughout. 20 No action required. B1 5.6 100 Crown partially suppress by adjacent tree T144. Large T142 Turkey oak EM 20 8 580 deadwood in crown. Multiple tearout wounds. No action required. B2 152 T143 Sycamore EM 20 3 7 5 5 4 530 Stubs and pruning wounds from previous crown lifts. 20 No action required. В1 6.4 127 T144 Turkey oak EM 20 520 G No defects noted. No action required. В1 6.2 122

Tree Solutions TREE SURVEY SCHEDULE (BS5837: 2012) Arboricultural Consultants CUERDEN HALL, CHORLEY RUSSELL PEARCE Site Page 9 of 11 Surveyor MR C SHENTON 10.03.2021 to 12.03.2021 Client Assessment Dates ARBORICULTURAL IMPACT ASSESSMENT Viewing Conditions Brief 21/AIA/CHORLEY/12 Job Reference Tree Crown RPA Name Age Height North East South West Diameter Vitality Comments E.R.C Management Category Number clear (m) (m²) Oriental Υ arborvitae 3 0 1 110 G Nothing to note Remove for development C1 1.3 5 150 150 150 SM G2 Cypress 5 0 1 1 1 1 (260)Nothing to note 20 Remove B2 3 31 x7 closely proximated trees. Est avg dbh. x4 stems abutting top of wall causing abrasive damage to stems. Dense veg and SM G3 Syacmore 16 6 6 6 6 320 brambles prevented detailed inspection. 20 Remove for development B2 3.8 SM G4 Holly 10 0 4 300 Est avg 300dbh. No defects noted. 20 Remove for development B2 3.6 Est avg dbh. x5 holly in poor condition. Sparse crowns. In SM 2 2 2 Р 0 Remove Holly 8 0 2 150 N/A N/A G5 x8 trees est avg. Deadwood, snapped out hanging branches, EM 500 G6 Beech 18 0.5 6 6 6 6 M large stubs. 20 Crown cleans. B2 6 113 Suppressed shaded out group of predominantly cherry. With G7 Mixed SM 8 0 3 3 3 3 200 rhod, holly and beech saplings present. 10 No action required. C2 2.4 18 G8 Holly Μ 16 0 4 400 Group of x8 Holly Upright woodland form. No defects noted. 20 No action required. B2 4.8 72 5 G9 Turkey oak EM 24 5 3 5 6 450 Slender upright single stemmed trees. No acion required. B2 5.4 92 SM/ Oak, Beech and Woodland group of trees with upright slender form. Some standing deadwood within group. Approx x35 trees. G10 Svcamore EM 18 3 4 4 380 20 No action required. B2 4.5 65 120 avg dbh. Approx x 40 trees. Scrubby understorey group on pond embankment. Hawthorn, blackthorn oak and alder. G11 Mixed Υ 16 0 2 2 2 2 120 Young with x1 tree within group collapsed. 10 Remove collapsed tree. C2 1.4 7 x9 lime tree. Historic heavy reductions / pollards with extensive regrowth. Large deadwood and cavities forming at reduction points. Some significant dieback as result. All require repollarding / reducing. Very dense basal epicormics G12 ime M 20 0 6 6 6 6 950 20 Repollard tree. Remove epicormics. B2 11.4 408 Avg dbh. x3 birch of low aesthetic value. Suppressed by

adjacent trees.

22

2.6

C2

10 No action required.

220

EM

15

3

Birch

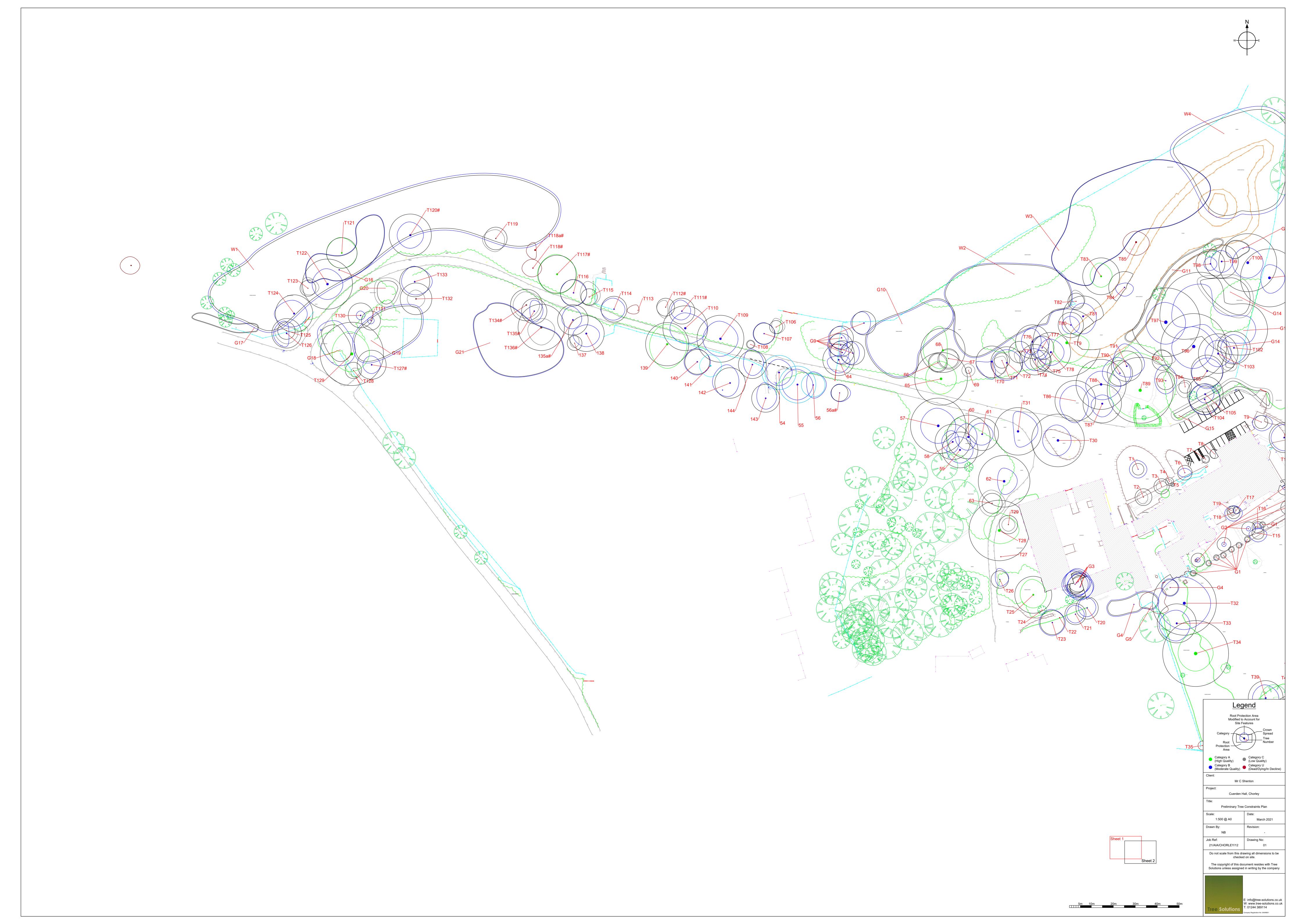
G13

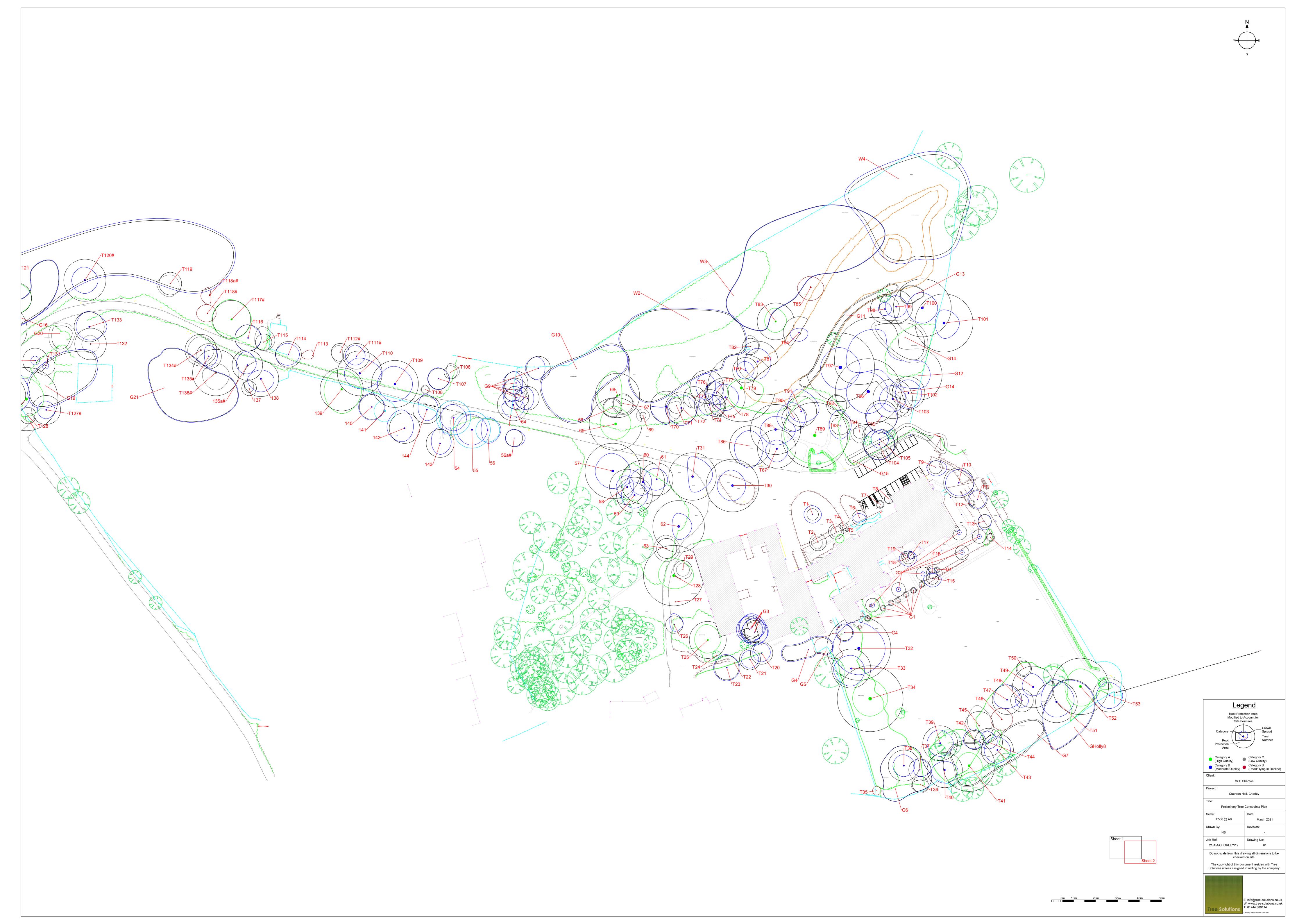
TREE	SURVEY S	СНЕ	DULE	(BS58	337: 2	2012)				Tree Solutions Arboricultural Consultants					
Site	CUERDEN HALL,	CHORLI	Υ							l	Surveyor	RUSSEI	LL PEARCE		Page	10 of 11
Client	MR C SHENTON	0	-								Assessment Dates		2021 to 12.03.2021		, ugc	10 0. 11
Brief	ARBORICULTURA	AL IMPA	CT ASSESSI	MENT								GOOD				
												21/AIA	/CHORLEY/12			
Tree Number	Name	Age	Height	Crown clear	North	East	South	West	Diameter	Vitality	Comments	E.R.C	Management	Category	RPA (m)	RPA (m²)
G14	Mixed	Y	16	0	3	3	3	3	120	М	Scrubby suppressed understorey group of approx 20 trees. Snowy mesp, holly, rowan, whitebeam. Low aesthetic value. x1 tree collapsed.	10	No action required.	C2	1.5	7
G15	Mixed	SM	6	0	3	3	3	3	130	G	Neglected shrub bed. Approx x20 trees. Inclusive of cotoneaster tree, zelkova serrrata, yew, cypress and maple. Low value. Dense ivy throughout. Nothing remarkable to note.	10	Remove for development	C2	1.5	8
G16	Mixed poplars	SM to	20	4	6	6	6	6	450	M-P	Dbh est avg. x11 trees. x2 in advanced state of decline and. x1 dead within falling distance of road	20	Remove dead and declining trees.	B2	5.4	92
G17	Mixed	Y to SM	8	3	2	2	2	4	130	М	Woodland edge group overhanging road. Suppressed by adjacent trees. Access facilitation pruning? Low aesthetic value.	10	No action required.	C1	1.5	8
G18	Sycamore	SM	12	2	7	7	7	7	420	G	Dbh est avg. Multi-stemmed at base. No defects noted.	20	Remove for development	B2	5	80
G19	Mixed	SM	17	0	5	5	5	5	350	G-M	x15 trees. Sycamore and beech. No defects noted.	20	No action required	B2	4.2	55
G20	Goat willow	SM	8	0	5	5	5	5	300	G	Group x3 willow. Lower branches are layering.	10	No action required	C2	3.6	41
G21	Sycamore	SM	18 to 22	2	5	5	5	5	370	G	Est avg dbh. x20 trees. Upright phototropic woodland form. Minor deadwood throughout.	20	No action required.	B2	4.4	62

TREE	SURVEY S	СНЕ	DULE	(BS58	337: 2	2012)				Tree Solutions Arboricultural Consultants					
Site	CUERDEN HALL,	CHORL	EY							1		RUSSE	LL PEARCE		Page	11 of 11
Client	MR C SHENTON										Assessment Dates		2021 to 12.03.2021			
Brief	ARBORICULTUR	AL IMPA	ACT ASSESSI	MENT							Viewing Conditions	GOOD				
	1										Job Reference	21/AIA	/CHORLEY/12			
Tree Number	Name	Age	Height	Crown clear	North	East	South	West	Diameter	Vitality	Comments	E.R.C	Management	Category	RPA (m)	RPA (m²)
W1	Mixed	SM to EM	16 to 24	0	6	6	6	6	400	G-M	Woodland group with overstorey of turkey oak, beech, Lime, sycamore, and poplar. Understorey of elder cherry hazel and sycamore predominantly. Dense rhododendron cover in places. No access due to dense vegetation. Predominantly sycamore, with Turkey oak and beech interspersed throughout and holly understory. Sledner stems,	20	No action required.	B2	4.8	72
		SM to	,								typical woodland form. Deadwood throughout. Standing					
W2	Mixed	EM	20	0	4	4	4	4	340	G	deadwood within group.	20	No action required.	B2	4	52
W3	Mixed	Y to SM	16 to 18	0	3	3	3	3	250	G-M	Predominantly Alder and Goat willow, with beech and Turkey oak also present. Holly and Elder understory. Some White Poplar to northern edge.	20	Remove trees within pond to north in order to allow for reinstatement works	B2	3	28
W4	Mixed	Y to SM	6 to 8	0	3	3	3	3	130	G	Predominantly young Oak and Beech, with goat willow and birch present. Elder and Hawthorn understory. Some mature Hawthorn on northern periphery.	20	Remove trees within pond to allow for reinstatement works	B2	1.5	8

Appendix Two

Preliminary Tree Constraints Plan





Appendix Three

Impact Assessment Plan

