

Ascerta

Landscape, Arboricultural & Ecological Solutions
for the Built Environment

Arboricultural Impact Assessment

Rossett Road
Rossett
Wrexham
LL12 0EH

Ref: P.1416.20

January 2021

Revision	Date	Reason
A	21 st January 2021	Site Layout – Rossett – Rev B
B	27th May 2021	Site Layout – Rossett – Rev G
C	28th March 2022	Site Layout – Rossett – Rev H
D	10th June 2022	Updated G3 stem positions
E	24 th November 2022	Minor amendment

Ascerta

Mere One, Mere Grange, Elton Head Road, St Helens WA9 5GG
T: 0845 463 4404 E: info@landscapetreeseecology.com
www.landscapetreeseecology.com

P.1416.20

Arboricultural Impact Assessment

**Rossett Road
Rossett
Wrexham
LL12 0EH**

For

Castle Green Homes

**January 2021
(Rev E 24th November 2022)**

Field Work by	Robert Armitage BSc (Hons) MArborA
Document Author	Robert Armitage BSc (Hons) MArborA
Technical Review	Alistair McLeod
QA Review & Approval	Ciaran Power - Office Manager

Contents

	Page
1.0 Introduction	- 1 -
2.0 Planning Policy & Relevant Legislation	- 1 -
3.0 Survey & Survey Methodology	- 2 -
4.0 Potential Arboricultural Impacts.....	- 3 -
5.0 Tree Protection Measures	- 4 -
6.0 Conclusions & Recommendations	- 6 -
7.0 References.....	- 6 -

Appendix 1 Tree Data Tables in accordance with Table 1 of BS5837: 2012

**Appendix 2 Drawing P.1416.20.03 *Tree Survey and Tree Removal Plan*
Drawing P.1416.20.04 *Arboricultural Method Statement***

1.0 Introduction

- 1.1** Ascerta has been instructed to carry out a survey of the trees within and immediately adjacent land off Rossett Road, Rossett, Wrexham, LL12 0EH and to assess the potential impact of the development as proposed on trees within / adjacent the site in accordance with British Standard 5837: 2012 *Trees in relation to design, demolition and construction – Recommendations*.
- 1.2** The site was visited on 5th January 2021 by Robert Armitage, a competent and qualified arboriculturist with experience of the UK and European arboricultural and landscape industries within the context of the planning system. During the site visit, a survey was carried out of the trees growing both on and immediately adjacent the site to the standards contained within BS5837: 2012.
- 1.3** This report presents the results of the survey, provides an assessment of the impact of the development and includes recommendations for further actions, where applicable, to mitigate any potential impacts of the development on tree cover within the local landscape.
- 1.4** Our client's objective is to develop the site by the construction of 132 residential dwellings.

2.0 Planning Policy & Relevant Legislation

- 2.1** The site lies within the Wrexham County Borough Council administrative area and is subject to the policies contained within its Local Plan. These have been taken into account when writing this report.
- 2.2** Checks made with the Local Planning Authority on 12th January 2021 indicate that none of the trees within our survey are statutorily protected by a Tree Preservation Order and the site is not located within a Conservation Area. In advance of the commencement of any works to trees within or adjacent the site, those instructing and proposing to carry out such works should satisfy themselves that all appropriate consents are in place to prevent potential breach of legislation.
- 2.3** British Standard 5837: 2012 *Trees in relation to design, demolition and construction – Recommendations* provides current recommendations and guidance on the relationship between trees and design, demolition and the construction processes. It sets out the principles and procedures to be applied to achieve a harmonious and sustainable relationship between trees and structures.

- 2.4** Consideration should also be given to any impacts from the proposed development in respect of the Hedgerow Regulations 1997 and the Forestry Act 1967 (and specifically the potential need for a felling licence), as well as existing UK and European legislation relating to wildlife and nature conservation.
- 2.5** In accordance with the Hedgerow Regulations 1997, 'important' hedgerows (in the context of the Regulations) should not be removed without a Hedgerow Removal Notice issued by the relevant Local Authority, unless that removal is subject to an appropriate consent under the Town and Country Planning Act 1990. Appropriate checks should be made in advance of the commencement of works to hedgerows to establish the importance or otherwise of the hedgerow and whether there is a requirement for a Hedgerow Removal Notice distinct from any formal planning consent to be granted.
- 2.6** The revised National Planning Policy Framework, updated on 19th February 2019, sets out the government's planning policies for England and Wales and how these are expected to be applied and has been considered within this report. It provides a Framework within which locally prepared plans for housing and other development can be designed and produced.

3.0 Survey & Survey Methodology

- 3.1** We have been supplied with a digital copy of the topographical survey for the site, which satisfies the relevant part of section 4.2 of BS5837: 2012. Features of arboricultural or landscape interest that have been excluded from the original plan (for example trees on or located off site but within a distance from the boundary of the site equal to or less than 12 times the stem diameter of that tree) have been added to the plan manually.
- 3.2** Seven individual trees, three groups of trees and six hedges were recorded during our survey, the details of which can be found within Appendix 1 to this report and cross referenced with drawing P.1416.20.03 *Tree Survey and Tree Removal Plan*.
- 3.3** Our survey of the trees within and adjacent the site was carried out by a qualified and competent arboriculturist in accordance with sections 4.4 and 4.5 of BS5837: 2012 on 5th January 2021 during cold and cloudy weather conditions. Those trees surveyed have been numbered sequentially and the details required by the Standard, including a categorisation in accordance with section 4.5 and Table 1 of the Standard, have been recorded within the Tree Data Tables at Appendix 1.
- 3.4** Where trees are surveyed that require immediate attention, for example to abate a nuisance, prevent a serious hazard to life or property, or are affected by a pathogen or pest that could cause widespread damage unless it is controlled, notification will be issued to the relevant person or organisation such that appropriate action can be taken.

4.0 Potential Arboricultural Impacts

- 4.1 Table 1 below shows the trees that will need to be removed to facilitate the development of the site.

Table 1: Trees to be Removed

<u>T. No.</u>	<u>Species</u>	<u>HT (m)</u>	<u>Stem DBH (mm)</u>	<u>Cat</u>	<u>Reason</u>
				<u>Grade</u>	
G1 (in part)	Hawthorn, Hazel, Ash and Elder	4.5	#200 ave	B2/C2	To accommodate the development proposal.
T3	Common Alder	13.5	950	B1/C1	
T4	Sycamore	9	#550	C1	Poor quality. Unsuitable for long-term retention within developed site.
T5	Sycamore	8.5	#800	C1	
H1 (in part)	Hawthorn	1.2	#100	B2	To accommodate the development proposal.
H4 (in part)	Holly	2.5	#150	A2/B2	
H6 (in part)	Hawthorn and Elder	1.20	#150	B2/C2	

- 4.2 Table 2 below shows trees that are proposed for retention within the development that have the potential to be impacted by the development proposals.

Table 2: Summary of Potential Impacts to Retained Trees

<u>T. No.</u>	<u>Species</u>	<u>HT (m)</u>	<u>Stem DBH (mm)</u>	<u>Cat</u>	<u>Potential Impact</u>
				<u>Grade</u>	
T1	English Oak	10	#800	A1/B1	The construction of the pump station.
T6	English Oak	15	850	A1	The construction of plot 58.
G3	English Oak and Sycamore	6-13	#400+ 400	B2/C2	The new road serving plots 125-129.
T7	Ash	9	#300	B2/C2	The refurbishment and widening of the existing footpaths
G4	Cherry	5.5 -11	#200 - #500	B2	
G5	Cherry, Hawthorn	7 - 9.5	#360 Avg	B2/C2	
G6	Norway Maple	9.5 - 13	320-590	B2	

5.0 Tree Protection Measures

5.1 Based on the proposed layout and those trees proposed for retention, Table 3 below provides suitable protection measures/ mitigation to minimise the potential impacts to retained trees as stated at **4.2**.

Table 3: Potential Impacts to Retained Trees & Proposed Protection Measure / Mitigation

	<u>Potential Impact / Work Stage</u>	<u>Affecting</u>	<u>Protection Measure / Mitigation</u>	<u>Description / Specification and Procedure</u>
	<u>Construction Phase</u>			
1	Proposed new roads / driveways	G3	- Root pruning - Supervised excavations	Exposed roots to be pruned by the supervising project arboriculturist. Project arboriculturist to attend site prior to the commencement of any works within the root protection area to oversee the works and ensure no significant root damage occurs.
2	Proposed buildings / plots	T6	- Root pruning - Fencing attached to scaffolding	Roots pruned cleanly back to the soil surface as promptly as possible to avoid prolonged exposure using hand tools appropriate to the task. Tree protection fencing to be attached to the scaffolding of the elevation nearest T6 to prevent vehicular/ plant access within the root protection area.
		T1	- Supervised works - Root pruning	Project arboriculturist to attend site prior to the commencement of any works within the root protection area to oversee the works and ensure no significant root damage occurs. Exposed roots to be pruned by the supervising project arboriculturist.
3	Refurbishment and widening of existing footpaths	T7 G4 G5 G6	- Tree protection fencing - Root pruning	Tree protection fencing to be erected in the locations shown to the specification provided. Exposed roots to be pruned cleanly back to the soil surface as promptly as possible using hand tools appropriate to the task.

5.2 On the basis of the above and the contents of this report, it is considered appropriate that an Arboricultural Method Statement be prepared to demonstrate how trees proposed for retention can be suitably safeguarded (See Appendix 2). The Arboricultural Method Statement can be secured by way of an appropriately worded planning condition attached to the consent for the development and should be adopted as a control document by site personnel.

5.3 In addition to the erection of protective fencing, the attached drawings show areas where it would be beneficial to agree an Arboricultural Method Statement between the project arboriculturist, design & construction teams and the local planning authority tree officer. The method statement will need to address and make allowance for the following:

- All forms of access required to the site;
- Site cabins and storage areas;
- Proposed parking for site personnel;
- Phasing of works;
- Space required for excavations (including foundation excavations);
- Any required special construction techniques (for example provision of porous surfaces);
- The location and construction methodology for installation of services in close proximity to retained trees & hedges;
- Any changes in ground levels and any resulting requirement for retaining structures;
- Proposed root zone enhancement measures;
- Working space for cranes, plant and scaffolding; and
- Management of waste products within the site.

5.4 Over and above the physical tree protection measures that should form the basis for the tree protection method statement, the following details should be provided within the Arboricultural Method Statement:

- Protection of the soil structure within the proposed planted areas (where applicable);
- Planting operations within the root protection areas of retained trees;
- Any required / additional precautions outside of construction exclusion zones in relation to the treatment & landscaping of garden or open space areas;
- System of arboricultural site monitoring / schedule of site visits and resulting actions.

6.0 Conclusions & Recommendations

- 6.1** The proposals to develop the site by the construction of 132 residential dwellings will directly require the removal of G1 (in part), T3, T4, T5, H1 (in part), H4 (in part) and H6 (in part).
- 6.2** In the absence of suitable controls, the development also has the potential to have an indirect impact on T1, T6, G3, T7, G4, G5 and G6 that are proposed for retention as part of the development of the site. However, suitable protection measures as listed in Table 3 and on the attached Arboricultural Method Statement will ensure trees are sufficiently protected throughout the entire course of the development. A summary of these measures is provided below.
- 6.3** Protection of retained trees from the impacts of the development proposals can be provided by:
- The erection of protective fencing in advance of the commencement of the development in the locations shown;
 - The agreement, in advance of the commencement of the development, together with the implementation during the construction phase, of the appended Arboricultural Method Statement (AMS); and
 - Arboricultural site supervision in key areas of the site (where specified on attached AMS); and
 - Root pruning procedures where necessary.
- 6.4** Compensation for the impact of the development, together with landscape and biodiversity enhancements can be achieved by way of the following:
- The planting of trees, shrubs and where applicable hedges as part of a comprehensive landscape scheme to replace any vegetation lost and to integrate the development into the wider landscape; and
 - The use of a mixture of native and ornamental species within planting schemes, where those species are suited to the site and local landscape.

7.0 References

Department for Communities and Local Government (February 2019) *National Planning Policy Framework*;

British Standard 5837: 2012 *Trees in relation to design, demolition and construction – Recommendations*;

National Joint Utilities Group publication *Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees – Volume 4*.

Appendix 1

Site:	Rossett Road, Rossett, Wrexham, LL12 0EH	Surveyor:	Robert Armitage	 Landscape Trees Ecology
Client:	Castle Green Homes	Survey Date:	5th January 2020	
Brief:	Tree Survey to BS5837:2012	Survey Conditions:	Cold and cloudy	

T. No	Species	Ht (m)	Stem DBH (mm)	RPA Radius	Branch Spread				Ht Crown Clearance (m)	Age Class	P Condition	Structural Condition & General Comments	Preliminary Recommendations (not to be actioned without a valid planning consent)	Est. (yrs)	Cat
				(m)	N	S	E	W							Grade
T1	English Oak	10	#800	9.60	8.5	8.5	8.5	8.5	1S	M	F/G	Canopy appears full and in good vigour. Emerging from unmaintained hedgerow. Scope to lift canopy if necessary.	Lift canopy to 3m site side by removing small diameter (<100mm) secondary branches only.	40+	A1/B1
G1	Hawthorn, Hazel, Ash and Elder	4.5	#200 ave	2.40	3	3	3	3	0	EM	F	Mainly Hawthorn with occasional sections of Hazel. Unmaintained.	Remove specified section for new footpath. Prune to suitable height to create a manageable, uniform feature.	20	B2/C2
T2	Ash	18	#900	10.80	10	10	10	10	1S	M	F/P	Canopy in relatively good vigour but several <i>Inonotus hispidus</i> brackets on ground fallen from canopy. Several longitudinal cavities with decay on main limbs. Limited safe retention value.	Inspect annually for imminent signs of failure and deteriorations in health / structural integrity. Will very likely require management intervention within 5-10 years to prevent large limb failure.	20	B1/C1
T3	Common Alder	13.5	950	11.40	6.5	6.5	6.5	6.5	2	M	F/P	Likely large basal cavity. Evident dieback of main leader at 3m from top. Rest of canopy appears in relatively good vigour.	Remove to accommodate development proposals. Plant replacement tree at the landscaping stage of the project.	20	B1/C1
T4	Sycamore	9	#550	6.60	5	5	5	5	2	M	P	Twin stemmed from 3m. Both stems failed with significant dieback and decay. Saprophytic fungal growth on limbs.	Remove based on poor condition. Plant replacement tree at the landscaping stage of the project.	10	C1
G2	Hawthorn, Sycamore and Hazel	4-6	#150 ave	3.00	3	3	3	3	0	Y	F	Predominantly unmaintained Hawthorn hedge with occasional self-seeded Sycamore saplings.	Prune to suitable height to create a manageable, uniform feature.	20	C2
T5	Sycamore	8.5	#800	9.60	4	4	4	4	3.5	M	P	Mature <i>Ganoderma</i> bracket at base with a large area of basal stem decay.	Remove based on poor condition. Plant replacement tree at the landscaping stage of the project	10+	C1

NOTE: The Category Grade applied to trees surveyed is consistent with the recommendations within Table 1 of BS5837: 2012, however this does not necessarily correlate with the visual importance of a tree within the wider landscape, nor does it dictate which trees should be retained at the cost of quality development. Where trees are to be lost to accommodate a development, recommendations will be made such as to provide suitable mitigation and compensation, and to integrate the development into the wider landscape.

Key to Abbreviations & Headings

T. No.: Tree number (T = Tree, G = Group, W = Woodland, H = Hedge, Cpt. = Compartment)
Stem DBH (Diameter at Breast Height): Measured at 1.5m above ground level*
Ht Crown Clearance: Canopy ground clearance
Structural Condition: Description of any observed defects
Cat. Grade: Tree quality assessment in accordance with BS5837: 2012

Species: Common name used
Root Protection Area Radius: Root Protection Area as per BS5837: 2012
Age Class: Y = Young, EM = Early Mature, M = Mature, OM = Over mature, D = Dead
Preliminary Recommendations: Made in respect of known / intended use of the site
* For groups of trees, the stem diameter of the largest tree in the group is generally used
Denotes estimated DBH where access was not possible

Ht: Approximate height of tree from ground level in metres
Branch Spread: Extent of canopy spread in metres to each of the four cardinal points
P (Physiological) Condition: G = Good, F = Fair, P = Poor, D = Dead
Est. (yrs): Estimated remaining contribution in years

Site:	Rossett Road, Rossett, Wrexham, LL12 0EH	Surveyor:	Robert Armitage	 Landscape Trees Ecology
Client:	Castle Green Homes	Survey Date:	5th January 2020	
Brief:	Tree Survey to BS5837:2012	Survey Conditions:	Cold and cloudy	

T. No	Species	Ht (m)	Stem DBH (mm)	RPA Radius	Branch Spread				Ht Crown Clearance (m)	Age Class	P Condition	Structural Condition & General Comments	Preliminary Recommendations (not to be actioned without a valid planning consent)	Est. (yrs)	Cat
				(m)	N	S	E	W							Grade
T6	English Oak	15	850	10.20	7.5	7.5	7.5	7.5	3	M	F	Canopy appears full and in good vigour. Prominent landscape feature.	No works required at this stage.	40	A1
H1	Hawthorn	1.2	#100	1.20	1	1	1	1	0	EM	F	Well established maintained feature along road.	Remove specified sections to accommodate development proposals. Prune as necessary to maintain uniformity.	30+	B2
H2	Laurel	2.5	#150	1.80	1	1	1	1	0	EM	F	Linear boundary around adjacent property.	No works required.	20+	C2
H3	Hawthorn and Holly	1.2	#150	1.80	0.5	0.5	0.5	0.5	0	EM	F	Well established maintained feature along road.	Prune as necessary to maintain uniformity.	30+	B2
T7	English Oak	11.5	#1100	13.20	6.5	6.5	6.5	6.5	1	M	F	Co-dominant stems from 2m, both have previously failed at 7m. Large areas of missing bark on stem but no apparent active decay.	No works required.	30	B1
H4	Holly	2.5	#150	1.80	0.5	0.5	0.5	0.5	0	EM	G	Well maintained linear hedge along adjacent property garden. Valuable screen.	Remove specified sections for new footpath. Prune side as necessary to maintain uniformity.	30	A2/B2
G3	English Oak and Sycamore	6-13	#400+ 400	6.78	4.5	4.5	4.5	4.5	4E	EM	F/P	One canopy bias Oak at southern end of group and two multi-stemmed Sycamores to north. Emerging from boundary hedge. Not particularly good examples of species. Most northern Sycamore in decline with significant squirrel damage on some limbs.	Prune canopies back towards boundary as necessary to accommodate construction works.	30	B2/C2
H5	Holly	1.2	#150	1.80	0.5	0.5	0.5	0.5	0	EM	F	Continuation of H4 but maintained at a lower height.	Prune side as necessary to maintain uniformity.	30	B2
H6	Hawthorn and Elder	1.20	#150	1.80	0.5	0.5	0.5	0.5	0	EM	F	Maintained hedge along boundary. Predominantly Hawthorn.	Remove specified sections to accommodate development proposals. Prune as necessary to maintain uniformity.	30	B2/C2

NOTE: The Category Grade applied to trees surveyed is consistent with the recommendations within Table 1 of BS5837: 2012, however this does not necessarily correlate with the visual importance of a tree within the wider landscape, nor does it dictate which trees should be retained at the cost of quality development. Where trees are to be lost to accommodate a development, recommendations will be made such as to provide suitable mitigation and compensation, and to integrate the development into the wider landscape.

Key to Abbreviations & Headings

T. No.: Tree number (T = Tree, G – Group, W = Woodland, H = Hedge, Cpt. = Compartment)
Stem DBH (Diameter at Breast Height): Measured at 1.5m above ground level*
Ht Crown Clearance: Canopy ground clearance
Structural Condition: Description of any observed defects
Cat. Grade: Tree quality assessment in accordance with BS5837: 2012

Species: Common name used
Root Protection Area Radius: Root Protection Area as per BS5837: 2012
Age Class: Y = Young, EM = Early Mature, M = Mature, OM = Over mature, D = Dead
Preliminary Recommendations: Made in respect of known / intended use of the site
* For groups of trees, the stem diameter of the largest tree in the group is generally used
Denotes estimated DBH where access was not possible

Ht: Approximate height of tree from ground level in metres
Branch Spread: Extent of canopy spread in metres to each of the four cardinal points
P (Physiological) Condition: G = Good, F = Fair, P = Poor, D = Dead
Est. (yrs): Estimated remaining contribution in years

Site:	Rossett Road, Rossett, Wrexham, LL12 0EH	Surveyor:	Robert Armitage	 Landscape Trees Ecology
Client:	Castle Green Homes	Survey Date:	5th January 2020	
Brief:	Tree Survey to BS5837:2012	Survey Conditions:	Cold and cloudy	

Page 3 of 4

T. No	Species	Ht (m)	Stem DBH (mm)	RPA Radius	Branch Spread				Ht Crown Clearance (m)	Age Class	P Condition	Structural Condition & General Comments	Preliminary Recommendations (not to be actioned without a valid planning consent)	Est. (yrs)	Cat
				(m)	N	S	E	W							Grade
T7	Ash	9	#300	3.60	4	4	5	5	3	Y	F	Located just outside the assumed site boundary fence line. Well balanced canopy. Growing within close proximity to adjacent property. Has received some light pruning works. Developing relatively well.	No works required.	20+	B2/C2
G4	Cherry	5.5 - 11	#200 - #500	6.00	7.5	8	7	7	3	EM / M	G	Three Cherry trees located outside the assumed site boundary fence on a patch of grass adjacent to many properties. All developing relatively well, prominent landscape feature. No significant structural defects visible. Slight mower/trimmer damage to the base of stem.	No works required.	30+	B2
G5	Cherry, Hawthorn	7 - 9.5	#360 Avg	4.30	3	4.5	4.5	4.5	2	M	G	Two Cherry trees 3-4 metres outside the assumed site boundary fence. One unmaintained hawthorn on the site boundary. Cherries developing well. Previous pruning works received on the most northern tree to avoid contact with adjacent property. Unable to inspect base due to limited access.	No works required.	30+	B2 / C2

NOTE: The Category Grade applied to trees surveyed is consistent with the recommendations within Table 1 of BS5837: 2012, however this does not necessarily correlate with the visual importance of a tree within the wider landscape, nor does it dictate which trees should be retained at the cost of quality development. Where trees are to be lost to accommodate a development, recommendations will be made such as to provide suitable mitigation and compensation, and to integrate the development into the wider landscape.

Key to Abbreviations & Headings

T. No.: Tree number (T = Tree, G – Group, W = Woodland, H = Hedge, Cpt. = Compartment)
Stem DBH (Diameter at Breast Height): Measured at 1.5m above ground level*
Ht Crown Clearance: Canopy ground clearance
Structural Condition: Description of any observed defects
Cat. Grade: Tree quality assessment in accordance with BS5837: 2012

Species: Common name used
Root Protection Area Radius: Root Protection Area as per BS5837: 2012
Age Class: Y = Young, EM =Early Mature, M = Mature, OM = Over mature, D = Dead
Preliminary Recommendations: Made in respect of known / intended use of the site
* For groups of trees, the stem diameter of the largest tree in the group is generally used
Denotes estimated DBH where access was not possible

Ht: Approximate height of tree from ground level in metres
Branch Spread: Extent of canopy spread in metres to each of the four cardinal points
P (Physiological) Condition: G = Good, F = Fair, P = Poor, D = Dead
Est. (yrs): Estimated remaining contribution in years

© Ascerta

Site:	Rossett Road, Rossett, Wrexham, LL12 0EH	Surveyor:	Robert Armitage	 Landscape Trees Ecology
Client:	Castle Green Homes	Survey Date:	5th January 2020	
Brief:	Tree Survey to BS5837:2012	Survey Conditions:	Cold and cloudy	

Page 4 of 4

T. No	Species	Ht (m)	Stem DBH (mm)	RPA Radius	Branch Spread				Ht Crown Clearance (m)	Age Class	P Condition	Structural Condition & General Comments	Preliminary Recommendations (not to be actioned without a valid planning consent)	Est. (yrs)	Cat
				(m)	N	S	E	W							Grade
G6	Norway Maple	9.5 - 13	320-590	7.08	6	6	6	6	3	EM	G	Three early mature Norway Maples located outside the assumed site boundary fence on a large patch of grass adjacent to many neighbouring properties. All canopies appear well balanced and in good vigour. No visible structural defects. Small amounts of mower/trimmer damage at base of stems and on exposed roots. Previous pruning works received to give a 3-4 metre clearance. Relatively good examples of species.	No works required.	30+	B2
G7	Ash, Hawthorn, Elder	6-10	#100 - #200	2.40	4	4	4	4	2	Y / EM	G / F	Group of linear orientated, unmaintained Ash, Hawthorn and Elder. All emerging from dense bramble undergrowth, located along an existing fence line.	No works required.	30+	C2
T8	Ash	14	#940	11.28	7	7.5	8	7	3	M	F	Most mature tree in this area. Has received previous pruning works lifting the canopy away from the adjacent footpath. Slight decay in the large pruning cut at the base on the north of the tree. Some evidence of dieback in tips but still has good form. Some small diameter deadwood.	No works required.	30+	B2

NOTE: The Category Grade applied to trees surveyed is consistent with the recommendations within Table 1 of BS5837: 2012, however this does not necessarily correlate with the visual importance of a tree within the wider landscape, nor does it dictate which trees should be retained at the cost of quality development. Where trees are to be lost to accommodate a development, recommendations will be made such as to provide suitable mitigation and compensation, and to integrate the development into the wider landscape.

Key to Abbreviations & Headings

T. No.: Tree number (T = Tree, G – Group, W = Woodland, H = Hedge, Cpt. = Compartment)
Stem DBH (Diameter at Breast Height): Measured at 1.5m above ground level*
Ht Crown Clearance: Canopy ground clearance
Structural Condition: Description of any observed defects
Cat. Grade: Tree quality assessment in accordance with BS5837: 2012

Species: Common name used
Root Protection Area Radius: Root Protection Area as per BS5837: 2012
Age Class: Y = Young, EM =Early Mature, M = Mature, OM = Over mature, D = Dead
Preliminary Recommendations: Made in respect of known / intended use of the site
* For groups of trees, the stem diameter of the largest tree in the group is generally used
Denotes estimated DBH where access was not possible

Ht: Approximate height of tree from ground level in metres
Branch Spread: Extent of canopy spread in metres to each of the four cardinal points
P (Physiological) Condition: G = Good, F = Fair, P = Poor, D = Dead
Est. (yrs): Estimated remaining contribution in years

© Ascerta

Appendix 2



Ascerta

Landscape | Trees | Ecology

t: 0845 463 4404
e: info@landscapetreescology.com
Web: www.landscapetreescology.com

CLIENT:
Castle Green Homes

PROJECT:
Rossett Road, Rossett, Wrexham, LL12 0EH

DRAWING TITLE:
Tree Survey and Tree Removal Plan
(sheet 1 of 2)

SCALE:
1:500 @A1

DATE:
05/01/2021

DRAWN BY:
CP

CHKD BY:
RA

DRAWING No:
P.1416.20.03

REV:
E

KEY

Existing tree to be retained

Existing tree to be removed

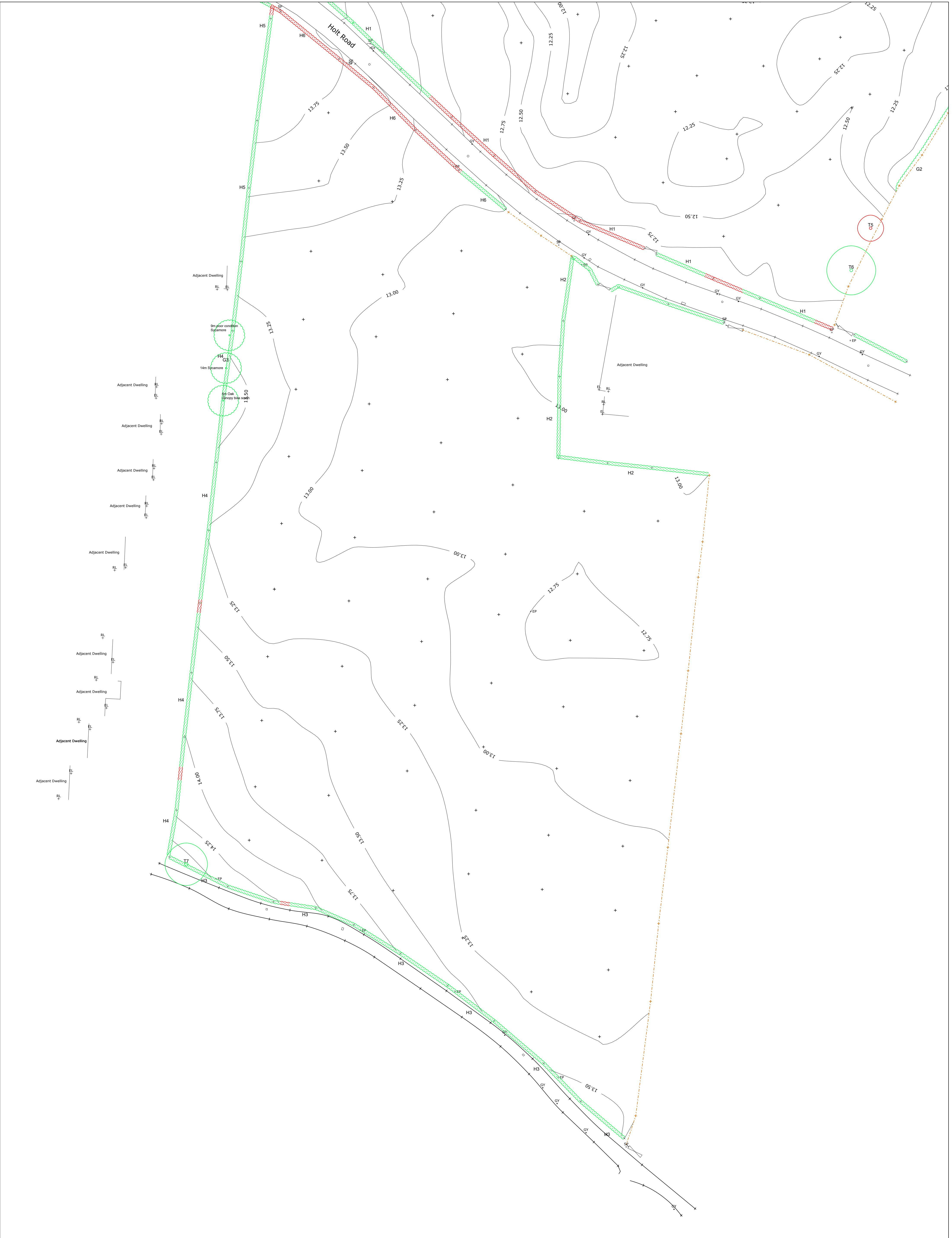
ALL COORDINATES RELATED TO LOCAL GRID LOCATED TO OS NG BY BEST FIT TO DETAIL. EXTRACTED FROM OS DIGITAL DATA.

DO NOT SCALE

© This drawing, including the design and technical information contained on it, is the property of Ascerta. The drawing may only be used for the specific purpose for which it has been intended and may not be reproduced or copied without prior permission.

E	Minor amendment	24.11.22
D	Updated G3 stem positions	10.06.22
C	General updates	28.03.22
B	Additional trees added	06.05.21
A	Site Layout - Rossett - Rev B	21.01.21
REV	DESCRIPTION	DATE

C:\Users\Ascerta_LA2\Ascerta\Ascerta Team Site - Server\All Jobs\1416.20 Rossett Road, Rossett, Wrexham, LL12 0EH\03 Working\01 CAD_Drawings\P.1416.20.03E.TS_04E.AMS



Ascerta

Landscape | Trees | Ecology

t: 0845 463 4404
e: info@landscapetreescology.com
Web: www.landscapetreescology.com

CLIENT:
Castle Green Homes

PROJECT:
Rossett Road, Rossett, Wrexham, LL12 0EH

DRAWING TITLE:
Tree Survey and Tree Removal Plan
(sheet 2 of 2)

SCALE:
1:500 @A1

DATE:
05/01/2021

DRAWN BY:
CP

CHKD BY:
RA

DRAWING NO:
P.1416.20.03

REV:
E

KEY

Existing tree to be retained

Existing tree to be removed

ALL COORDINATES RELATED TO LOCAL GRID LOCATED TO OS NG BY BEST FIT TO DETAIL. EXTRACTED FROM OS DIGITAL DATA.

DO NOT SCALE

© This drawing, including the design and technical information contained on it, is the property of Ascerta. The drawing may only be used for the specific purpose for which it has been intended and may not be reproduced or copied without prior permission.

E	Minor amendment	24.11.22
D	Updated G3 stem positions	10.06.22
C	General updates	28.03.22
B	Additional trees added	06.05.21
A	Site Layout - Rossett - Rev B	21.01.21
REV	DESCRIPTION	DATE

ARBORICULTURAL METHOD STATEMENT

SEQUENCE OF OPERATIONS AND POTENTIAL IMPACTS TO RETAINED TREES - GANTT CHART

		SEQUENCE OF OPERATIONS AND POTENTIAL IMPACTS TO RETAINED TREES - GANTT CHART																							
		PRIOR TO SITE WORKS																							
		ON SITE																							
		COMPLETION																							
SITE WORKS																									
TREE PROTECTION MEASURE																									
		PREPARATION	TREE WORKS		TREE PROTECTION FENCING	DEMOLITION	REMEDATION	SERVICES AND DRAINAGE	NEW HARD STANDING				NEW BUILDINGS / STRUCTURES				LANDSCAPING		SITE SIGN OFF						
		Agreement of Method Statement Content	Understorey and Vegetation Clearance	Tree Removal / Pruning	RECT AS SHOWN Including temporary location If applicable (See Key)	Structure Dismantle	Removal of Debris and Materials	Hard Standing Removal	Ground Works and Level Changes	Excavations for Attenuation Basin	Excavations for Channel Installation	Roads	Parking Bays	Driveways	Footpaths	Edgings	Substations	Play Areas	Plots	Walls	Retaining Structures	Fences	Removal of tree protection fencing	Tree and shrub planting	Notification to LDA
1	ARBORICULTURAL ATTENDANCE AT INITIAL SITE MEETING	To ensure all tree protection measures are clearly understood by the site agent and contractors																							
2	ARBORICULTURAL SITE SUPERVISION / SITE VISIT													T1 G3											
3	ROOT PRUNING													T1 G3		T7 G4, G5 G6					T6				
4	FENCING ATTACHED TO SCAFFOLDING																				T6				

ARBORICULTURAL METHOD STATEMENT

IMPORTANT

As a requirement of Wrexham County Borough Council department of Planning, this Arboricultural Method Statement has been prepared to clearly define the actions and measures to be taken in respect of the physical protection of retained trees within and immediately adjacent the proposed development site, in advance of, during and after the completion of the construction phase of the development.

The purpose of this Arboricultural Method Statement is to support the Planning Application P/2018/0560, which was granted by appeal on 14th February 2020. Also, to satisfy the LA condition provided below:

6) No part of the development shall commence until a detailed Arboricultural Method Statement has been submitted to and approved in writing by the Local Planning Authority. No development or other operations shall take place except in strict accordance with the Method Statement as is approved. The Method Statement shall include the following:

- A specification for tree protection fencing and ground protection measures that comply with British Standard BS5837:2012;
- A Tree Protection Plan showing the location of the trees to be removed and retained with their crown spreads, Root Protection Areas, Construction Exclusion Zones, and location of protective fencing and ground protection measures accurately plotted;
- A full specification for any access, driveway, path (to include paths required by Condition No8 and 9), underground services or wall foundations within retained tree Root Protection Areas or Construction Exclusion Zones, including any related sections and method for avoiding damage to retained trees;
- Details of general Arboricultural matters including proposed practices with regards to cement mixing, material storage and fires;
- Details of the frequency of supervisory visits and procedures for notifying the findings of such visits to the Local Planning Authority;
- Details of all proposed tree works, including felling and pruning.

Reason: To ensure the work is carried out to accepted arboricultural practices for the long term wellbeing of trees within/adjacent to the site - UDP Policy E64.

Any deviation from this statement, whether intended or inadvertent, may result in a breach of planning condition(s) and enforcement action may be taken.

All relevant legislation must be taken into consideration prior to the commencement of any works on site, particularly in relation to works to trees. Where statutory controls apply, including Tree Preservation Orders, Conservation Areas, the requirement for a Felling License, relevant planning conditions or any statute relating to wildlife protection or protected species, those both instructing and carrying out works that directly or indirectly affect trees must first satisfy themselves that all appropriate consents are in place or that notifications have been served and that statutory timescales have elapsed. Failure to do so is likely to result in enforcement action involving in some cases, criminal prosecution and substantial fines, as well as the potential cessation of all works on site until any and all breaches are fully rectified to the satisfaction of the local planning authority.

The contents of this statement in no way constitutes an instruction to proceed with any works without the full written consent of the relevant local planning authority.

NOTE: Should any queries arise over the content of this document or there be a need for works to trees within or immediately adjacent the Root Protection Areas, the appointed site arborist MUST be contacted for advice in advance. Failure to follow the measures contained within this document

NOTE TO LOCAL AUTHORITY: This document does not imply that Ascerta has been retained to oversee, supervise or manage any aspect of the tree protection proposals at any stage of the development.

Any queries in relation to this document should be referred in the first instance to Ascerta by telephone on 0845 463 4404 or alternatively by email at info@landscapeecology.com

GENERAL NOTES

All tree works must be carried out to the agreed schedule subject to the appropriate consent(s) being in place. All works must be carried out to a minimum of the standards contained within BS3998:2010 Tree work - Recommendations or any subsequent revision, by a reputable contractor, insured and qualified to current industry standards. All waste must be disposed of in accordance with current waste transfer regulations.

Once erected, no access will be permitted beyond the line of the tree protection fence without the prior approval of the project arboriculturist. No storage of materials is permitted within these areas, no dumping of waste or spilling of liquids (including run-off into the exclusion zone or drift from any sprays) and no lighting of fires within 10m of the outer canopy spread of any retained tree within the site.

Protective fencing is to be erected to the specification shown on the method statement drawing and retained in-situ until the project arboriculturist and / or the local planning authority tree officer confirms in writing that it may be moved / removed. Periodic inspections should be made by an appropriately qualified and experienced person (preferably the project arboriculturist) to ensure the fencing is maintained in good order / condition and that it is not being moved / removed without appropriate consent.

All services, whether that be drainage (surface water or foul), gas, electricity, telephone, cable or any other services associated with the construction and occupation of the proposed development are to be located outside of the root protection area of retained trees unless with the prior approval of the project arboriculturist and in accordance with industry standard provisions (for example, but not limited to National Joint Utilities Group guidance).

All access to the site is to be via approved vehicular and pedestrian routes.

The site compound area is to be identified and approved by the project arboriculturist in advance and constructed in a manner to avoid any adverse impact on retained trees, shrubs or hedges.

Parking for site personnel is to take account of fenced off areas and root protection areas.

Construction activities are to be phased such as to allow adequate working space and to comply with the tree protection requirements.

All excavation works are to be carried out in a manner that avoids damaging retained trees, shrubs or hedges. Where applicable, excavation machinery is to be sited away from exclusion zones with the work progressively moving away from retained trees, shrubs and hedges.

There is strictly no storage of soils, subsoils, stone, building materials, excess timber from tree felling operations or brushwood permitted within exclusion zones or immediately adjacent fenced-off areas where the collapse of such piles could cause damage to protective fencing.

All waste from site works is to be disposed of in accordance with approved environmental legislation and best practice guidance.

Inspections in accordance with the agreed schedule and as instructed by the client should be made by the project arboriculturist to ensure compliance with the Method Statement and the appropriate planning conditions.

TREE WORK RECOMMENDATIONS – RETAINED TREES

T.NO	SPECIES	HT (m)	STEM DBH (mm)	TREE WORKS	CAT GRADE
T1	English Oak	10	#800	Lift canopy to 3m site side by removing small diameter (<100mm) secondary branches only.	A1/B1
G1	Hawthorn, Hazel, Ash and Elder	4.5	#200 ave	Prune to suitable height to create a manageable, uniform feature.	B2/C2
T2	Ash	18	#900	Inspect annually for imminent signs of failure and deterioration in health / structural integrity. Will very likely require management intervention within 5-10 years to prevent large limb failure.	B1/C1
G2	Hawthorn, Sycamore and Hazel	4-6	#150 ave	Prune to suitable height to create a manageable, uniform feature.	C2
H3	Hawthorn and Holly	1.2	#150	Prune as necessary to maintain uniformity.	B2
H4	Holly	2.5	#150	Prune side as necessary to maintain uniformity.	A2/B2
G3	English Oak and Sycamore	6-13	#400-400	Prune canopies back towards boundary as necessary to accommodate construction works.	B2/C2
H5	Holly	1.2	#150	Prune side as necessary to maintain uniformity.	B2

SEQUENCE OF OPERATIONS AND POTENTIAL IMPACTS TO RETAINED TREES - GANTT CHART

	PRIOR TO SITE WORKS	ON SITE	COMPLETION
SITE WORKS	PREPARATION	TREE WORKS	TREE PROTECTION FENCING
TREE PROTECTION MEASURE	Agreement of Method Statement Content	Understorey and Vegetation Clearance	Tree Removal / Pruning
1 ARBORICULTURAL ATTENDANCE AT INITIAL SITE MEETING	To ensure all tree protection measures are clearly understood by the site agent and contractors		
2 ARBORICULTURAL SITE SUPERVISION / SITE VISIT			To ensure location and specification are correct
3 ROOT PRUNING			
4 FENCING ATTACHED TO SCAFFOLDING			

TREE PROTECTION MEASURE

AFFECTING

DESCRIPTION/ SPECIFICATION AND PROCEDURE

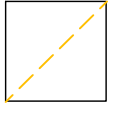
1 ARBORICULTURAL ATTENDANCE AT INITIAL SITE MEETING	ALL TREES	Site agent to be briefed on content of this document and location of protective fencing, including temporary locations, to be marked out on site using fluorescent paint or similar. Site specific tree protection measures to be discussed, including timing, implementation and the need for such measures.
2 ARBORICULTURAL SITE SUPERVISION / SITE VISIT	T1 and G3	Project arboriculturist to attend site prior to the commencement of the works required within the root protection areas of T1 and G3, to ensure no significant root damage occurs.
3 ROOT PRUNING	T1, T6, G3, T7, G4 G5 and G6	Roots exposed during excavations <25mm to be pruned cleanly back to the soil surface using tools appropriate to the task. Roots >25mm to be assessed on site by the project arboriculturist as to whether pruning is safe / appropriate.
4 FENCING ATTACHED TO SCAFFOLDING	T6	Tree protection fencing to be attached to the scaffolding of the eastern elevation of plot 58 to prevent vehicular / plant access within the root protection areas of the adjacent retained tree/s.

KEY

Existing tree to be retained



Extent of Root Protection Area for retained trees in accordance with BS5837: 2012 Trees in relation to design, demolition and construction - Recommendations



Proposed location of protective fencing - see inset for type / construction detail



Target note - numbers relate to the attached Tables which contain details on the protection measures required.

ADVISED FENCING SIGNAGE



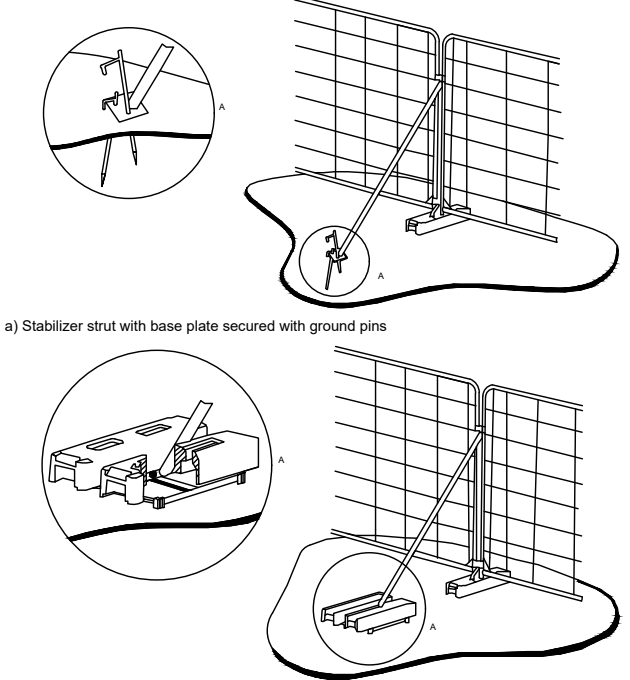
TREE PROTECTION AREA KEEP OUT!

(TOWN & COUNTRY PLANNING ACT 1990) TREES INCLUDED ON THIS PLAN ARE PROTECTED BY PLANNING CONDITIONS AND ARE THE SUBJECT OF A TREE PRESERVATION ORDER. ENCROACHMENT OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION. ANY ENCROACHMENT INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY.

Laminated copies of the above sign (or similar if approved by the project arboriculturist) are to be attached to the outside of the protective fencing at intervals such that they are clearly visible to site personnel.

TREE PROTECTION FENCING

BS5837:2012
Figure 3: Examples of above-ground stabilizing systems



ALL COORDINATES RELATED TO LOCAL GRID LOCATED TO OS NO BY BEST FIT TO DETAIL. EXTRACTED FROM OS DIGITAL DATA.

DO NOT SCALE

This drawing, including the design and technical information contained on it, is the property of Ascerta. The drawing may only be used for the specific purpose for which it has been intended and may not be reproduced or copied without prior permission.

REV	DESCRIPTION	DATE
E	Minor amendment	24.11.22
D	Updated G3 stem positions	10.06.22
C	Site Layout - Rossett - Rev H	28.03.22
B	Site Layout - Rossett - Rev G	19.05.21
A	Site Layout - Rossett - Rev B	21.01.21

Ascerta
Landscape | Trees | Ecology

t: 0845 463 4404

e: info@landscapeecology.com
Web: www.landscapeecology.com

CLIENT:
Castle Green Homes

PROJECT:
Rossett Road, Rossett, Wrexham, LL12 0EH

DRAWING TITLE:
Arboricultural Method Statement (sheet 2 of 2)

SCALE:
1:500 @A1

DATE:
05/01/2021

DRAWN BY:
CP

CHOD BY:
RA

DRAWING NO:
P.1416.20.04

REV:
E