WOLD ECOLOGY LTD

Chris Toohie
2 Redwood Gardens, Driffield,
East Riding of Yorkshire. YO25 6XA
01377 200242

Richard Baines
5 Coastguard Cottages, Flamborough,
East Riding of Yorkshire. YO15 1AW
01262 850937

www.woldecology.co.uk

Arboricultural Assessment Report (ver 1)
Ash Tree Close
Belton
North Lincolnshire

March 2021

	Staff Member	**Position**
Arboricultural Survey :	Mark S Feather BSc M Arb (RFS) Tech Arbor A MICFor	Arboriculturalist
Report verified by :	Chris Toohie MSc MCIEEM	Project Manager

Table of Contents

1.0	**Introduction**	**3**
2.0	**Site Survey (Plans 1A, 1B and 1C)**	**4**
3.0	**Survey Methodology and Schedule**	**7**
4.0	**Arboricultural Implications Assessment (Plans 2A)**	**14**
5.0	**Tree Protection (Plans 3A)**	**18**
6.0	**Arboricultural Method Statement**	**19**
7.0	**Appendix A – Tree Protection Fencing**	**20**

1.0 INTRODUCTION

1.1 This report provides information in accordance with British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction' for proposed development at Ash Tree Close, Belton, North Lincolnshire. The proposal are for the demolition of existing properties and construction of new residential properties.

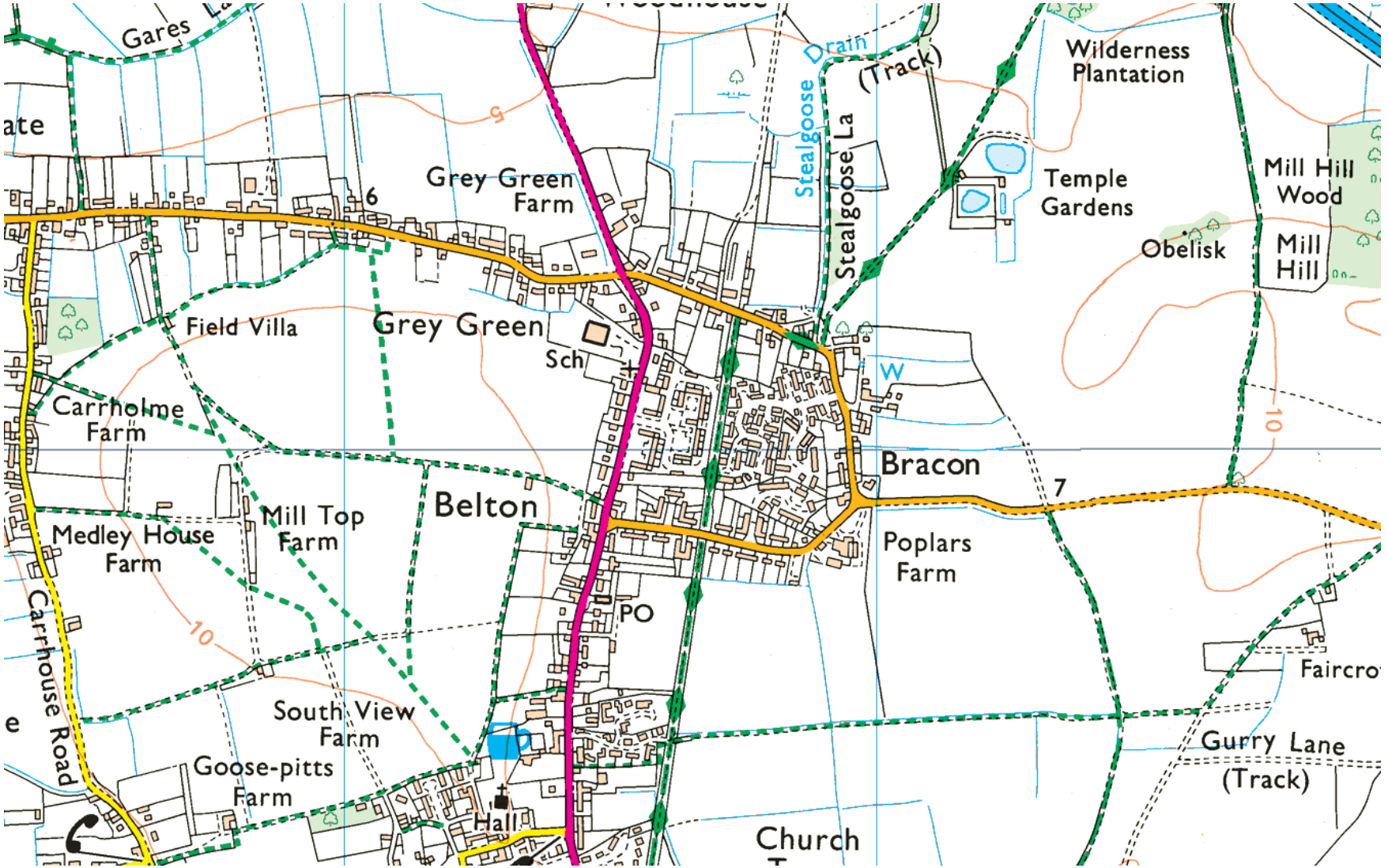
1.2 The aims of the survey are to undertake a survey of all trees and within and on the boundaries of the site.

1.3 The following information was requested as part of the brief:

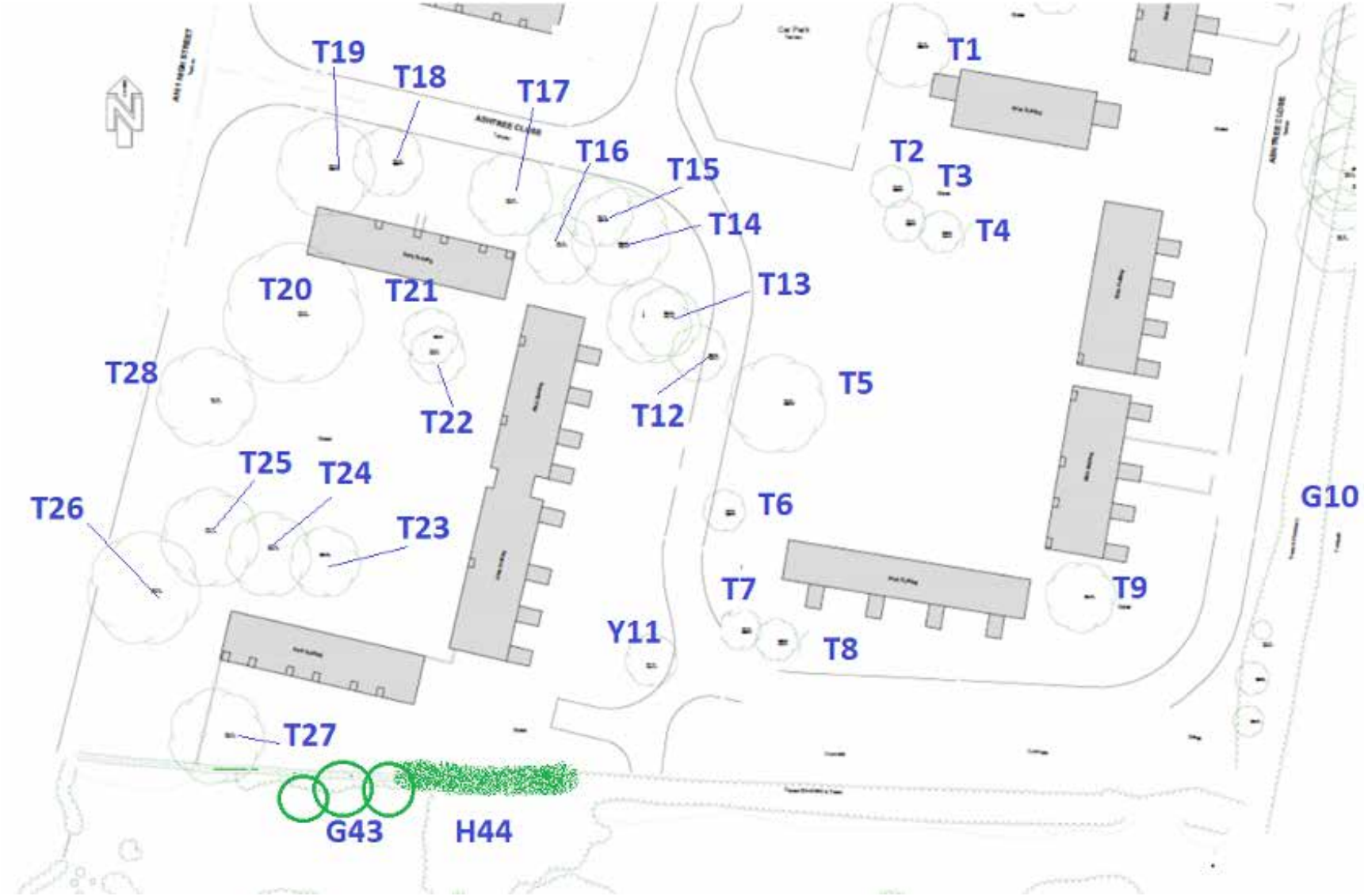
- Designated tree number.
- Tree Species – the common name has been given followed by the Latin or scientific name.
- Height.
- Stem or base (multi stemmed trees) diameter
- Root protection area provided as a radius from the trunk, listed below the stem diameter.
- Crown clearance (height of the periphery of the crown spread above ground level).
- Branch spread (to N, S, E, and W).
- Age class. This is given as young (Y), middle age (MA), mature (M), and over mature (OM).
- Physiological condition - general comments given only, poor, fair, good.
- Tree structural condition - general comments given only, poor, fair, good.
- Useful life expectancy.
- Preliminary management recommendations (a full tree risk survey will not be undertaken at this stage).
- Tree category (U, A, B or C).

2.0 SITE SURVEY

2.1 Location Plan 1A



2.2 Southern Section Plan 1B



2.2 Northern Section Plan 1C

3.0 SURVEY METHODOLOGY AND SCHEDULE

3.1 The survey was carried out to British Standard 5837:2012, using the categories explained below.

3.1.1 The trees were assessed visually from ground level. Where potential problems were identified, further inspection by tree climbing is recommended. No digging or drilling methods were employed during this survey.

3.1.2 The tree numbers within the schedules refer to the order in which the trees were recorded.

3.1.3 The approximate height of each tree is measured from ground level to top of canopy using a clinometer.

3.1.4 The approximate diameter of each tree is measured at 1.5m above ground level. Many trees are not measured due to inaccessibility. The root protection distance which has been expressed as a radius from the trunk of the tree has been given below the diameter measurement.

3.1.5 The age of each tree is based upon our experience.

3.1.6 The physiological condition of the trees is based upon our experience.

3.1.7 The structural condition and description is based upon our experience.

3.1.8 Both the approximate expected lifespan remaining, and category/rating of each tree is based upon the surveyor's experience.

3.1.9 The retention category of each tree or group of trees is based upon the information detailed above using the following categories: -

U Trees to be removed for arboricultural reasons
A Trees of high quality and value
B Trees of moderate quality and value
C Trees of low quality and value

3.1.10 The following subcategories have been used in rating tree value:

1 Primarily arboricultural value
2 Primarily landscape value
3 Primarily cultural values, including conservation

3.2 TREE SCHEDULE

(See Plan 1B and 1C) – Note root protection area (RPA) provided as a radius below the Stem Diameter.

Tree no	Species	Height	Stem Dia RPA	Branch Spread	Crown Height	Age Glass	Physiological Condition	Structural Condition	Preliminary Management Recommendations	Useful life Expectancy	Category Grading
T1	**Norway maple**	12m	490 5.9m	5m	4m	M	Good	Good	**No action**	40+	B2
T2	**Crab apple**	5m	210 2/5m	3m	2m	M	Fair	Fair	**No action**	20+	C2
T3	**Whitebeam**	7m	290 3/5m	4m	3m	M	Poor	Poo	**No action** Review when in leaf but it appears to have extensive dieback	-	U
T4	**Whitebeam**	6m	230 2.7m	3m	2m	M	Fair	Fair	**No action**	10+	C2
T5	**Cherry**	20m	880 10.5m	9m	2m	M	Good	Good	**No action**	30	B2
T6	**Crab Apple**	4m	230 2.7m	2.5m	2m	M	Fair	Fair	**No action**	20+	C2
T7	**Cherry**	15m	400e 4.8m	3m	5m	M	Fair	Fair	**No action** Tree in private garden	20+	C2

Tree no	Species	Height	Stem Dia RPA	Branch Spread	Crown Height	Age Glass	Physiological Condition	Structural Condition	Preliminary Management Recommendations	Useful life Expectancy	Category Grading
T8	**Norway Maple**	17m	400e 4.8m	4m	4m	M	Fair	Fair	**No action** Tree in private garden	20+	C2
T9	**Norway maple**	18m	690 8.3m	8m	3m	M	Good	Good	**No action**	40+	B2
G10	**Hawthorn Scrub with Norway maple saplings**	8m	300e 3.6m	3m	-	M	Good	Good	**No action**	30	C2
T11	**Norway maple**	12m	450 5.4m	N 4 S 0 E 3 W 4	3m	M	Fair	Poor	**No action** Lost major limb on the south. Side of the tree.	20	C2
T12	**Lime**	20m	410 4/.9m	5m	2m	M	Good	Good	**No action**	40+	B2
T13	**Norway maple**	22m	590 7/1m	7m	3m	M	Good	Good	**No action**	40+	B2
T14	**Cherry**	16m	560 6.7m	5m	3m	M	Good	Fair	**Remove for development** Small pocket of decay at base	20+	B2
T15	**Cherry**	14m	370 4.4m	5m	3m	M	Good	Fair	**Remove for development**	20+	B2

Tree no	Species	Height	Stem Dia RPA	Branch Spread	Crown Height	Age Glass	Physiological Condition	Structural Condition	Preliminary Management Recommendations	Useful life Expectancy	Category Grading
T16	**Cherry**	12m	360 4.3m	5m	3m	M	Good	Fair	**Remove for development**	20+	B2
T17	**Whitebeam**	14m	570 6.8m	6m	2m	M	Good	Good	**Remove for development**	20+	B2
T18	**Whitebeam**	12m	450 5.4m	4m	3m	M	Fair	Fair	**Remove for development**	20+	C2
T19	**Norway maple**	20m	570 6.8m	6m	4m	M	Good	Good	**Remove for development**	40+	B2
T20	**Ash**	18m	630 7.5m	7m	3m	M	Good	Good	**Remove for development**	-	B2
T21	**Crab apple**	4m	260 3.1m	2m	2m	M	Fair	Fair	**Remove for development**	20+	C2
T22	**Crab apple**	4m	210 2.5m	2m	2m	M	Fair	Fair	**Remove for development**	20+	C2
T23	**Whitebeam**	16m	510 6.1m	5m	2m	M	Good	Fair	**Remove for development**	20+	C2
T24	**Norway maple**	22m	550 6.6m	5m	3m	M	Good	Good	**Remove for development**	40+	B2

Tree no	Species	Height	Stem Dia RPA	Branch Spread	Crown Height	Age Glass	Physiological Condition	Structural Condition	Preliminary Management Recommendations	Useful life Expectancy	Category Grading
T25	**Norway maple**	18m	660 5.9m	10m	2m	M	Good	Poor	**Remove for development** Lost central stem in the past poor structural	40+	C2
T26	**Weeping willow**	16m	720 8.6m	5m	2m	M	Good	Fair	**Pollard** back to previous pollard points and allow to re-sprout.	20+	B2
T27	**Weeping willow**	22m	800e 9.6m	7m	2m	M	Good	Good	**Remove for development** Close to adjacent property	20+	B2
T28	**Ash**	20m	610 7.3m	6m	3m	M	Good	Good	**Remove for development**	-	B2
T29	**Weeping willow**	16m	590 7.1m	5m	2m	M	Fair	Fair	**Remove for development**	20	C2
T30	**Norway maple**	20m	530 6.3m	5m	2m	M	Good	Good	**Remove for development**	40+	B2
T31	**Cherry**	11m	280 3.3m	3m	3m	M	Fair	Poor	**Remove for development**	20+	C2
T32	**Sycamore**	20m	520 6.2m	6m	3m	M	Good	Good	**Remove for development**	30	B2

Tree no	Species	Height	Stem Dia RPA	Branch Spread	Crown Height	Age Glass	Physiological Condition	Structural Condition	Preliminary Management Recommendations	Useful life Expectancy	Category Grading
T33	**Cherry**	17m	510 6.1m	5m	2m	M	Good	Good	**Remove for development**	20+	C2
T34	**Norway maple**	20m	470 5.6m	7m	2m	M	Good	Good	**Remove for development**	40+	B2
T35	**Norway maple**	22m	680 8.1m	7m	4m	M	Good	Good	**Remove for development**	40+	B2
T36	**Sycamore**	22m	560 6.7m	8m	3m	M	Good	Good	**Remove for development**	40+	B2
T37	**Rowan**	5m	220 2.6m	2m	2m	M	Fair	Fair	**Remove for development**	20+	C2
T38	**Crab apple**	4m	210 2.5m	2m	2m	M	Fair	Fair	**No action**	20+	C2
T39	**Whitebeam**	9m	400e 4.8m	4m	2m	M	Fair	Poor	**No action** Partially uprooted	20+	C2 U
T40	**Horse chestnut**	16m	620 7.4m	4m	4m	M	Good	Fair	**No action**	40+	B2
T41	**Rowan**	7m	160 1.9m	3m	2m	M	Fair	Fair	**No action**	20+	C2

Tree no	Species	Height	Stem Dia RPA	Branch Spread	Crown Height	Age Glass	Physiological Condition	Structural Condition	Preliminary Management Recommendations	Useful life Expectancy	Category Grading
T42	**Rowan**	7m	210 2.6m	3m	3m	M	Poor	Fair	**No action** Bark damage	20+	C2
G43	**Garden Trees**	9m	300e 3.6m	4m	2m	M	Good	Good	**No action** Trees on adjacent land	20+	C2
H44	**Hawthorn Hedge**	7m	200e 2.4m	2m	-	M	Fair	Fair	**No action**	30+	C2

4.0 ARBORICULTURAL IMPLICATIONS ASSESSMENT

4.1 Plan 2A – Proposed Layout

4.2 Tree Removal

4.2.1 The development proposal requires the removal of the mature trees within the two main open space areas alongside the main road (A161). Some of the trees are attractive large mature specimens and have therefore been give the category B2. However, some of these trees have outgrown their situation in relation to the existing properties. The following photograph identify the trees to be removed.

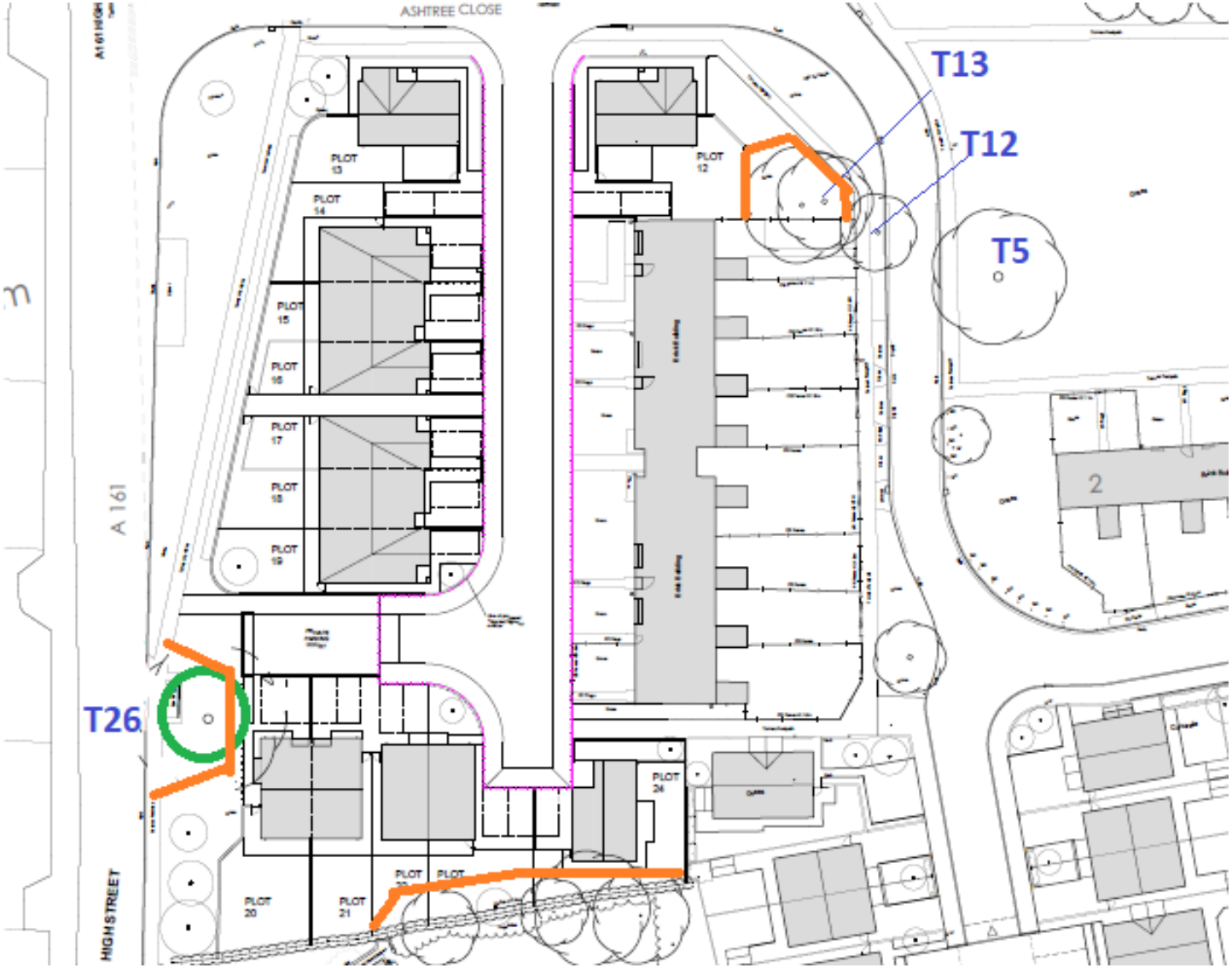
Photograph 1 (Southern Area)

Photograph 2 – Ash Tree Close

Photograph 3 – Northern Area

4.2.2 The removal of most of the trees from the development area has reduced the tree protection measures to just 3 areas as shown on plan 3A on the following page.

5.0 TREE PROTECTION - Plan 3A



6.0 ARBORICULTURAL METHOD STATEMENT (AMS)

6.1 General Site Management Constraints

- No soil stripping, compaction, excavation or removal is to take place other than for the foundations, as proposed and for service and drainage.

6.2 Local Planning Authority Meeting

- The Local Planning Authority to be notified not less than 72 hours prior to commencement of works on site.

6.3 Tree Removal and Site Clearance

- Trees to be removed as listed on the tree schedule.

6.4 Tree Protection Measures

- Tree Protection Fencing to be erected as indicated on the Tree Protection Plan 3A and as detailed in Appendix A
- Tree protection fencing to be marked with signs at 4m intervals 'TREE PROTECTION FENCING – DO NOT REMOVE'.
- No storage of materials or equipment within the tree protection fencing.

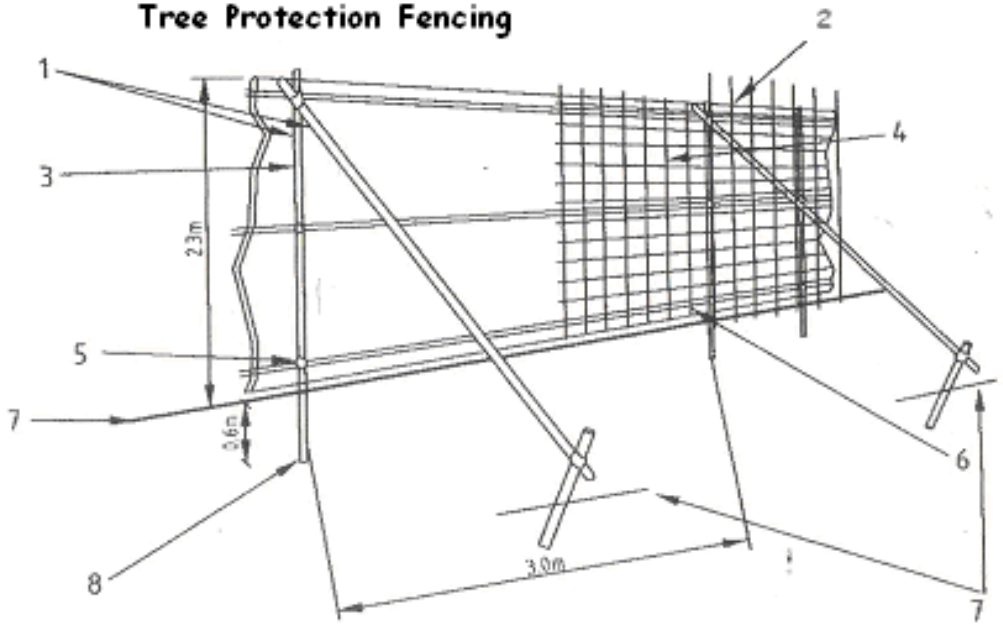
6.5 Demolition and Construction Work

- Once the tree protection is in place then construction work can commence.

7.0 Appendix A – Tree Protection Details

Extract from BS5837

Tree Protection Fencing



1) Standard Scaffold Poles 2) Uprights to be driven into the ground
3) Panels secured to uprights with wire ties 4) Weldmesh
5) Standard clamps 6) Wire twisted and secured on inside of fence
7) Ground level 8) Approx 0.6m into the ground

Scaffold Board Ground Protection