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Arboricultural Report
Proposed Development at
49 Front Street
Middleton on the Wolds
East Riding of Yorkshire
YO25 6AU

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Client Contact
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Contents

1.0	Introduction	3
2.0	Site Plan – (Plan 1A)	4
3.0	Survey Methodology and Schedule	6
4.0	Arboricultural Implications Assessment	11
5.0	Arboricultural Method Statement	14
6.0	Appendix A –Tree Protection Plan	15
7.0	Appendix B - Tree Protection Fencing Details	16

1.0 INTRODUCTION

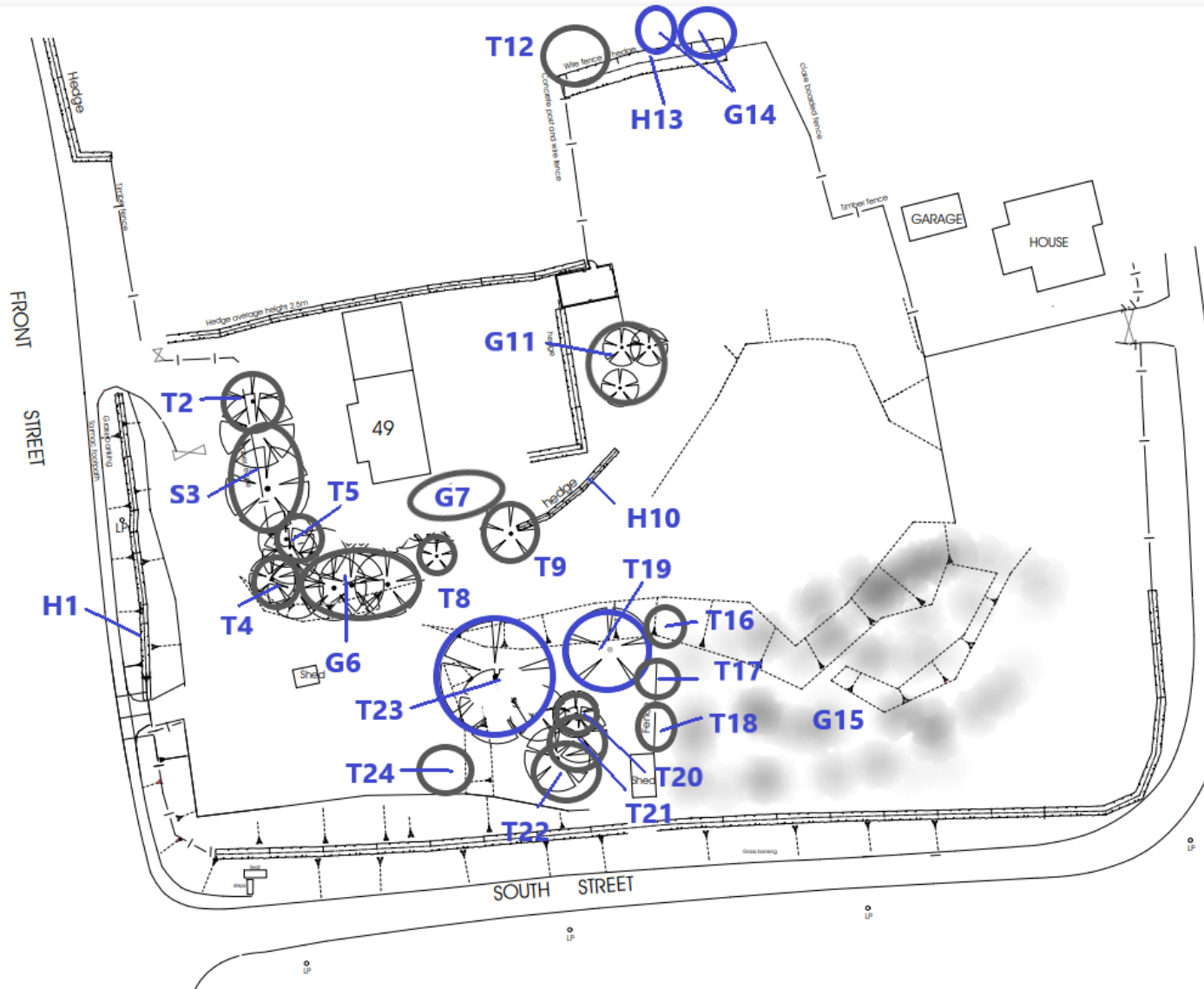
- 1.1 This report provides information in accordance with British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction' for a proposed development on land at 49 Front Street, Middleton on the Wolds, East Riding of Yorkshire. The development proposals are for residential properties.
- 1.2 The arboricultural survey was commissioned by M J Design Services Limited and is linked to the design work undertaken by them as architects for the site. The aims of the survey were to undertake an assessment of all the existing trees within proximity of the proposed development, including trees on adjacent land.
- 1.3 The following information has been recorded in accordance with BS 5837:2012:-
- 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 and root protection area.
 - 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), 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.
 - Tree category (A, B, C or U).

2.0 SITE PLANS

2.1 Location (Plan 1A)



2.2 Tree Survey (Plan 2A)



3.0 SURVEY METHODOLOGY AND SCHEDULE

- 3.1 The survey was carried out to British Standard 5837:2012, using the categories explained below:
- 3.2 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.
- 3.3 The trees were not given number tags.
- 3.4 The approximate height of each tree is measured from ground level to top of canopy using a clinometer.
- 3.5 The approximate diameter of each tree is measured at 1.5m above ground level using a diameter tape measure.
- 3.6 The age of each tree is based upon experience (Y= young. MA = middle aged. M= mature. OM=over mature).
- 3.7 The physiological condition of the trees is based upon experience (Good, Fair, Poor, Dead).
- 3.8 The structural condition and description is also based on experience (Good, Fair, Poor).
- 3.9 Both the approximate expected lifespan remaining and category/rating of each tree is based on the surveyor's experience.
- 3.10 The retention category of each tree or group of trees is based upon the information detailed above using the following categories:
 - A Trees of high quality and value
 - B Trees of moderate quality and value
 - C Trees of low quality and value
 - U Trees to be removed for arboricultural reasons
- 3.11 The following subcategories have been used in rating tree value
 - 1 Mainly arboricultural qualities
 - 2 Mainly landscape qualities
 - 3 Mainly cultural values, including conservation

3.12 Schedule of Trees and Hedges

(Note - Root Protection Area expressed as a percentage below the stem diameter in the schedule below)

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
H1	Hawthorn hedge	1m	100e 1.2m	0.5m-	-	M	Fair	Fair	Remove a short section for access drive for plot 2	40+	C2
T2	Purple plum	8m	300e 3.6m	3m	2m	M	Good	Good	No action	20	C2
S3	Shrubs (Laurel)	4m	200e 2.4m	2m	-	M	Good	Good	No action	20+	C2
T4	Cherry	9m	400e 4.8m	4m	3m	M	Good	Good	No action	20+	C2
T5	Scots pine	12m	300e 3.6m	3m	5m	M	Fair	Fair	No action	20+	C2
G6	Scots pine 3 trees	16m	430 5.1m	3m	3m	M	Good	Good	Crown Lift to 5m over access road.	40+	B2

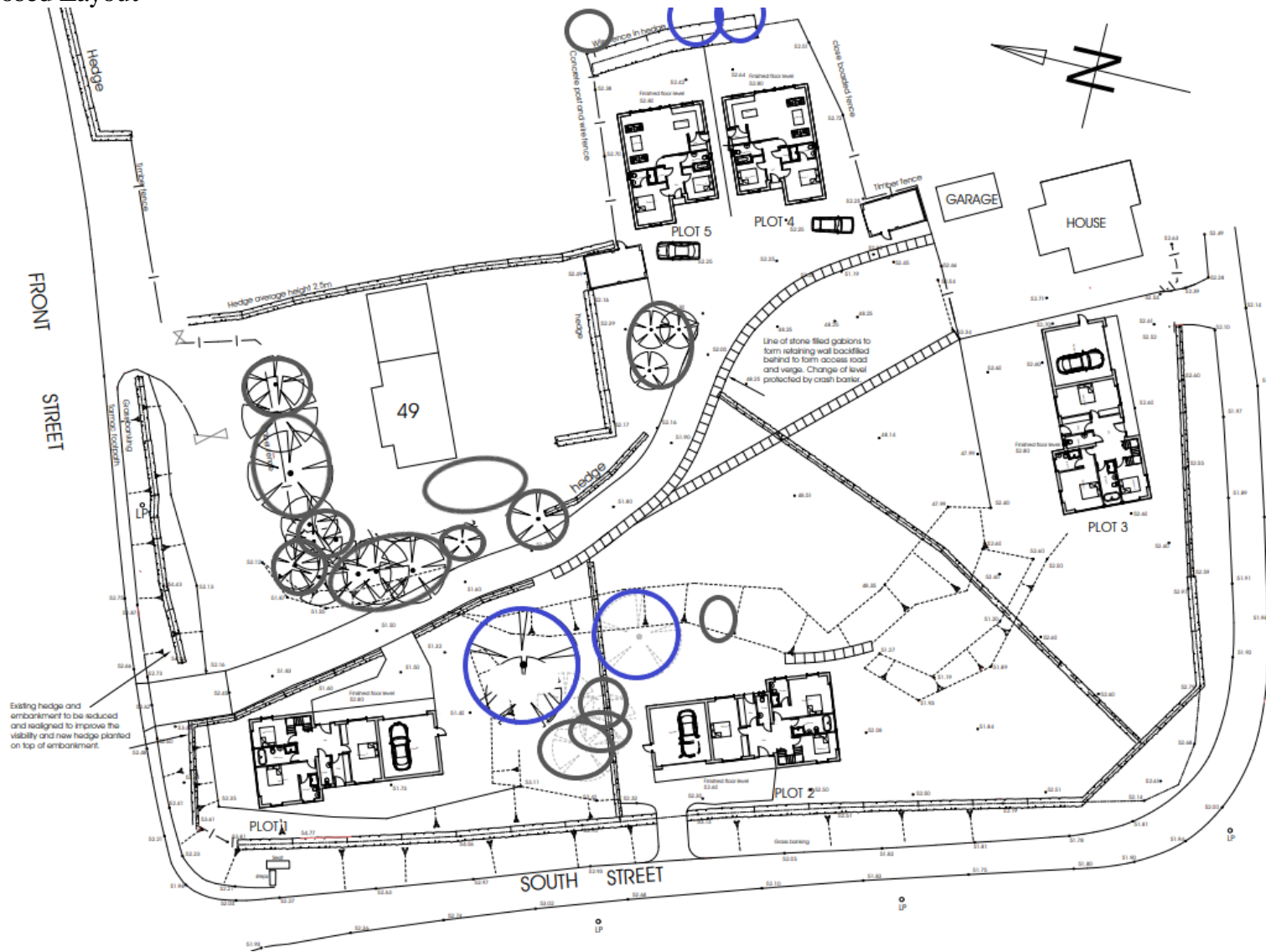
Tree no	Species	Height	Stem Dia RPA	Branch Spread	Crown Height	Age Glass	Physiological Condition	Structural Condition	Preliminary Management Recommendations	Useful life Expectancy	Category Grading
G7	Cypress Multi stemmed	17m	400e 4.8m	4m	1m	M	Good	Good	No action	40+	C2
T8	Laburnum	4m	200m 2.4m	2m	2m	M	Good	Good	No action	20+	C2
T9	Laburnum Multi stemmed	6m	300m 3.6m	3m	2m	M	Good	Good	Crown lift to 5m over access road.	20+	C2
H10	Hedge Lonicera	1m	100e 1.2m	0.5m	-	M	Good	Good	No action	20+	C2
G11	Fruit trees	7m	300e 3.6m	3m	1m	M	Fair	Fair	No action	20	C2
T12	Leyland Cypress	12m	400e 4.8m	3m	-	M	Good	Good	No action Tree on adjacent land	40	C2
G13	Hawthorn Hedge	5m	200e 2.4m	2m	-	M	Good	Good	No action	40+	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
G14	Sycamores 2 trees Multi stemmed	16m	500e 6.0m	5m	3m	M	Good	Good	No action Trees on adjacent land Located at a lower level than the site.	40+	B2
G15	Scrub	4m	-	-	-	M	-	-	Remove areas for plot 2 Mainly bramble scrub with odd small elderberry and hawthorn	-	U
T16	Cherry	9m	180 2.1m	2m	2m	MA	Good	Good	No action	20+	C2
T17	Horse Chestnut	6m	240 2.9m	2m	1m	MA	Good	Good	Remove for development	40+	C2
T18	Horse chestnut	6m	170 2.0m	2m	1m	MA	Good	Good	Remove for development	40+	C2
T19	Horse Chestnut	20m	720 8.6m	7m	1m	M	Good	Good	No action	40+	B2
T20	Scots pine	16m	360 4.3m	4m	4m	M	Fair	Fair	No action	40+	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
T21	Norway spruce	17m	470 5.6m	5m	2m	M	Good	Good	No action	40+	C2
T22	Cherry	9m	170 2.0m	2m	2m	MA	Good	Good	No action	20+	C2
T23	Horse Chestnut	22m	840 10.1m	7m	1m	M	Good	Good	No action	40+	B2
T24	Apple	6m	400 4.8m	3m	1m	M	Fair	Poor	Extensive decay in the trunk Remove due to condition	-	U

4.0 ARBORICULTURAL IMPLICATIONS ASSESSMENT

Plan 2A – Proposed Layout



4.1 Tree Removal

The proposed development retains virtually all the trees on the site, the exceptions being T24 due to its poor condition and two small young trees T17 and T18. Low scrub, (G15) which is mainly bramble is also proposed to be removed for plot 2. The group of pine trees (G6) and the laburnum (T9) would require minor pruning to lift the crowns over the access drive.

4.2 Construction of the Access Road.

The access road would pass close to the Pines (G6), Laburnum (T8) and Chestnut (T23). However, no excavation work for the access road would be required as the existing ground level is below the base level of the trees. The proposal is to raise the road so that the finish level is at the similar level to the ground level of the trees (See photograph below). Given the locations, size of the trees and extent of the driveway it is considered that the construction of the drive would have no significant impact on the trees.



4.3 Root Protection Measures

During construction tree protection fencing would be required to offer protection to the existing trees and hedges. Details have been shown on the Tree Protection Plan (3A) – appendix A with fencing details in Appendix B.

4.4 Construction and Storage Space

Adequate space exists for construction work and for the supply and storage of materials, mainly on the drives and garden areas.

4.5 Services

Services and drainage to be located outside the existing root protection areas for existing trees to be retained. See architects drawings for further details.

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, services and drainage as proposed.

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, Tree Pruning and Site Clearance

- Tree T17, T18 and T24 to be removed. Minor crown lifting to G6 and T9. Short section of hedge(H1) to be removed for access to plot 2.

6.4 Erection of Tree Protection Fencing

- Tree Protection Fencing and to be erected as indicated on the Tree Protection Plan (plan 3A) and as detailed in Appendix A. Notices to be erected on the fencing at 5m intervals stating 'Tree Protection Fencing - Do not remove'.

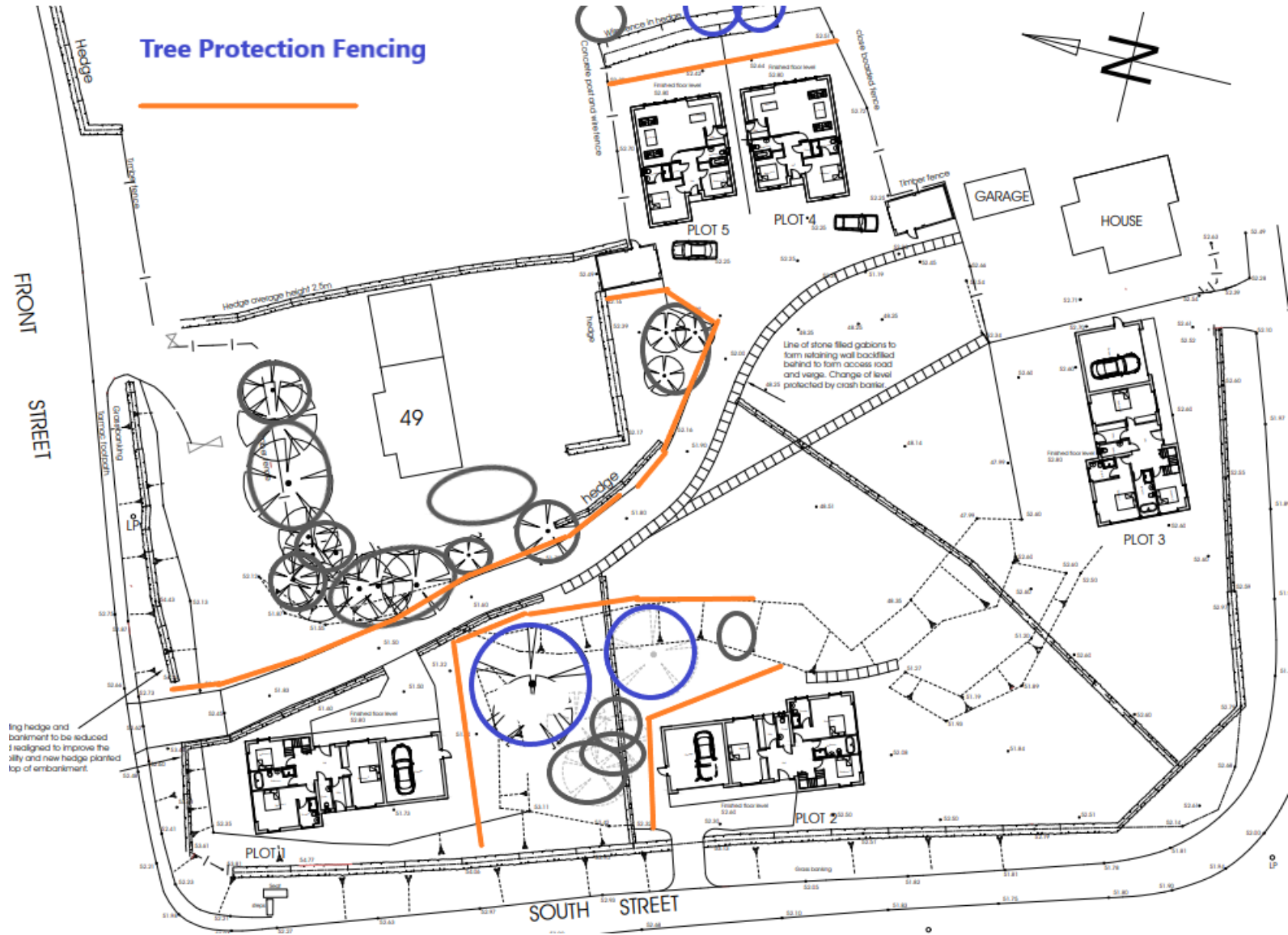
6.5 Construction Work

- Once the tree protection measures are in place then construction work can commence.
- Services for the development are to be located as indicated on the plans with the service runs agreed with the architect and service providers before any excavation work commences. No services to be located within the root protection areas of the trees.
- No site materials to be stored within the fenced tree protection areas.

6.6 Completion of work.

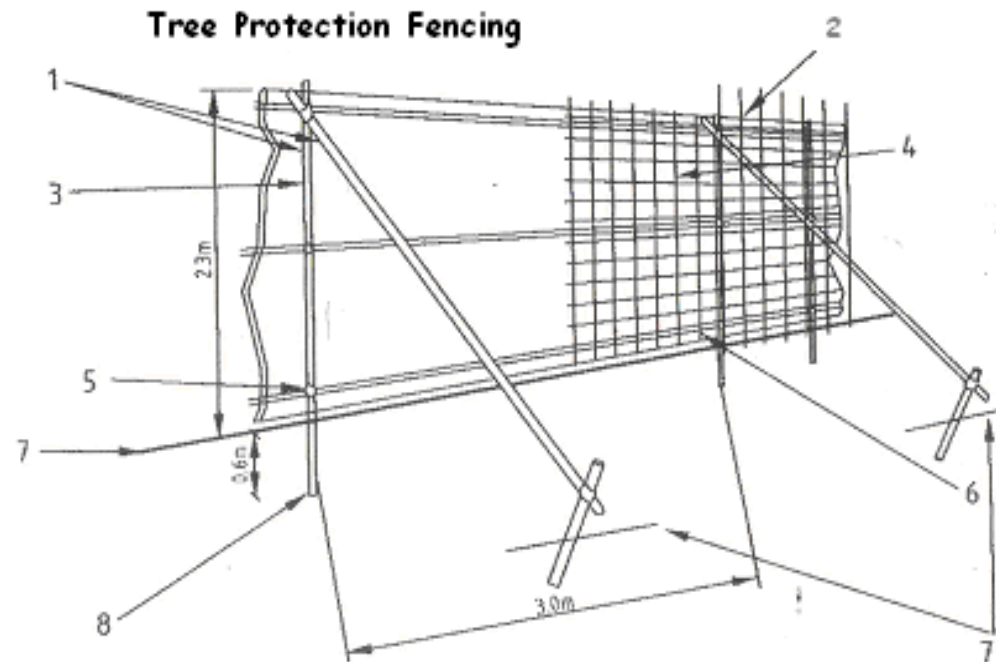
- On completion of the construction work the tree protective can be removed.

Appendix A –Tree Protection Plan (Plan 3A)



Appendix B – Tree Protection Fencing Details

Extract from BS5837



- 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

