

TREE AND HEDGE PLANTING SCHEME

at
Woodville
Calf Hill Road
Holmfirth
Huddersfield
West Yorkshire
HD9 3UB

Client:
K. Clayton

Client
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Woodville
Calf Hill Road
Holmfirth
Huddersfield
HD9 3UB

JCA Ref:
12755a/ChC

JCA Limited

Arboricultural Consultants

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1 Introduction

1.1 Objectives of the Landscaping/Planting Scheme

1.1.1 Our client has requested a tree and hedge planting scheme in order to:

- To improve the overall age class of the trees on site, thus providing long term tree cover.
- Provide appropriate natural screening where appropriate.

1.2 Terms of Reference

1.2.1 For the purpose of designing a planting scheme and report, we have been supplied with a site plan showing the proposed site layout.

1.3 The Site and the Existing Tree Population

- 1.3.1 It is proposed to construct three detached residential dwellings to the north-western part of the site.
- 1.3.2 The site has a reasonably good tree cover at present with species including Beech, Sycamore, Oak and Ash.
- 1.3.3 The majority of the trees growing on site are of an early-mature and mature age. Although these trees have stature, a more staggered age class will provide the site with a longer term tree cover.
- 1.3.4 The site contains a wide variety of native and non-native species at present.
- 1.3.5 This planting scheme will introduce appropriate species to create a greater age range, offer additional amenity, ecological and screening value and offer additional further habitat for wildlife.

2 Tree Planting Schedule

2.1 Tree Planting Position

- 2.1.1 Tree planting positions are shown on the attached plan at **Appendix 1**.
- 2.1.2 Trees have also been positioned so that they are unlikely to conflict with other trees or structures as they attain their mature height and spread.
- 2.1.3 Trees have been positioned along the northern site boundary where they are easily visible by the future residents and where they will offer the greatest screening and amenity value.

2.2 Species Selection Objectives

- 2.2.1 The species have been selected for the following reasons:
 - **To be in harmony with the existing trees on site and those within the surrounding area:** The majority of the chosen species are native to Britain (English Oak, Hornbeam, Small-leaved Lime, and Silver Birch) and are in harmony with the local landscape. Any non-native species included within the scheme, have been selected to help integrate the new planting in with the existing trees (e.g. Norway Maple) or to offer something visually different.
 - **To improve the amenity value of the site:** A wide variety of species have been selected. These species offer a wider range of autumnal colours, interesting bark and leaves. As such, the site should be attractive throughout the seasons.
 - **To establish long term tree cover:** The chosen species, such as the Oaks, Hornbeams and Norway Maple, have a long life expectancy and will therefore continue to provide the site with long term tree cover.
 - **To encourage and support wildlife:** Native species have been selected with a known attraction or benefit to local wildlife, with the aim of enhancing the ecological value of the site. Species selected will offer shelter and/or nesting opportunities for a variety of nesting birds.
 - **Safety:** Poisonous species e.g. Laburnum and Yew have been avoided, as have species which commonly drop branches e.g. Willows and Poplars.
 - **Screening:** To provide useful screening where appropriate for the future residents.
 - A variety of species from different taxonomic groups have been chosen, to provide improved resilience of the overall tree population in light of a changing climate and introduced tree diseases gaining prevalence.

2.3 Tree Specifications

- 2.3.1 The following table details the specification for all the proposed trees. Consideration is given to availability, immediate impact, ease of installation and likelihood of successful establishment.
- 2.3.2 Trees should be container grown and selected according to guidelines BS: 3936: Part 1: 1992 - Nursery Stock. This will ensure that they are of good form and in good condition.
- 2.3.3 The following table details the specification for the newly planted trees:

Table 1: Individual tree planting

Botanical Name	Common Name	Size at Purchase	No. Required
<i>Betula pendula</i> .	Silver Birch	Standard	4
<i>Carpinus betulus</i> 'fastigiata'	Fastigiated Hornbeam	Standard	3
<i>Quercus robur</i> 'fastigiata'	Fastigiated English Oak	Standard	4
<i>Tilia cordata</i>	Small-leaved Lime	Standard	4
<i>Acer platanoides</i>	Norway Maple	Standard	2
Total			17

2.4 Tree Planting Implementation

- 2.4.1 Recommendations for good tree planting practice are given below:

- **Site Preparation:** It is recommended that the tree planting scheme is implemented after the completion of the development. This will avoid damage to new trees from construction hazards such as re-grading of soils near roots and mechanical damage to tree crowns.
- **Planting Hole:** A planting hole will be excavated by hand and will be twice the diameter of the rootball and 200mm below the bottom of the root ball. The sides of the hole should be roughened with the spade and no-fines aggregate laid at the base to assist with drainage. The new tree should be offered into the hole and backfilled using the original soil material. Soil ameliorants such as compost should not be added as this has been shown to be detrimental to successful establishment.
- **Staking:** Staking will be required in order to secure the tree and prevent losses within the first years of establishment. It may be necessary to angle the stakes in order to avoid damaging the rootball. All trees are to be staked at a height of no more than 1 metre.

- **Tree Ties:** Adjustable and flexible tree ties will be used. These are to be attached at a point no more than one third of the way up the stem. Ties should be inspected after one year and adjusted as required. Only if establishment is particularly slow should stakes remain in place longer than three growing seasons.
- **Mulching:** Woodchip mulch should be applied around the base of each tree to a depth of no more than 75mm. This will conserve water close to the soil surface and inhibit weed growth
- **Timing:** Planting should be carried out during the dormancy period for deciduous species (November to February).
- **Tree Guards:** Spiral type guards are to be incorporated around the base of each stem in order to reduce pest damage throughout the winter months and to prevent mechanical damage from strimmers and mowers.
- **Mycorrhizae Application:** Mycorrhizal fungus should be applied to each new tree either in the form of powder, granules or spikes. Powder and granules should be applied over the exposed roots of the transplanted tree and spread over the newly dug hole. Spikes should be pushed into the rootball once the tree has been planted. This symbiotic fungus will aid the newly planted tree in acquiring water and nutrients from the soil, and thus enhance growth and reduce mortality.

3 Hedge Planting Schedule

3.1 Hedge Planting Position

3.1.1 The position of the proposed screening hedge is shown on the attached Site Plan at **Appendix 1**.

3.2 Species Selection

3.2.1 The species have been selected for the following reasons:

- **To encourage and support wildlife:** The chosen species provide all year round foliage which offer habitats for nesting birds and also small land mammals.
- **To provide appropriate screening value:** The hedge has been position where it is most likely to offer the greatest screening value possible for future residents.
- **Safety:** Poisonous species such as Yew have been avoided, as have species with thorns e.g. Hawthorn and Blackthorn.

3.3 Hedge Specifications

3.3.1 The following table details the specification for the proposed hedge.

Botanical Name	Common Name	Size at purchase (l)	No's Required (approx.)
<i>Carpinus betulus</i>	Hornbeam	Whip	50
<i>Fagus sylvatica</i>	Beech	Whip	50
		Total	100

3.4 Hedge Planting Implementation

3.4.1 Recommendations for good shrub planting practice are given below:

- **Site Preparation:** It is recommended that the planting scheme is implemented after the completion of the development. Care should be taken during development to ensure that soils within the proposed planting areas are not contaminated with cement or other building materials.

Loosen the soil to eliminate compaction and improve drainage. If the existing topsoil is of poor quality, a fertile, freely draining soil should be imported.

- **Planting Hole:** A planting hole will be excavated to around two and three times the diameter of the rootball and no deeper than the roots. The sides and bottom of the hole should be roughened with the spade or fork. Soil ameliorants such as compost should not be added as this has been shown to be detrimental to successful establishment.
- **Mulching:** Woodchip mulch should be applied across the entire length of the hedge, around the base of each planted specimen to a depth of no more than 75mm. This will conserve water close to the soil surface and inhibit weed growth
- **Timing:** Planting should be carried out during the dormancy period for deciduous species (November to February).
- **Positioning:** Species should be staggered 50cm apart throughout the whole length of the hedge.

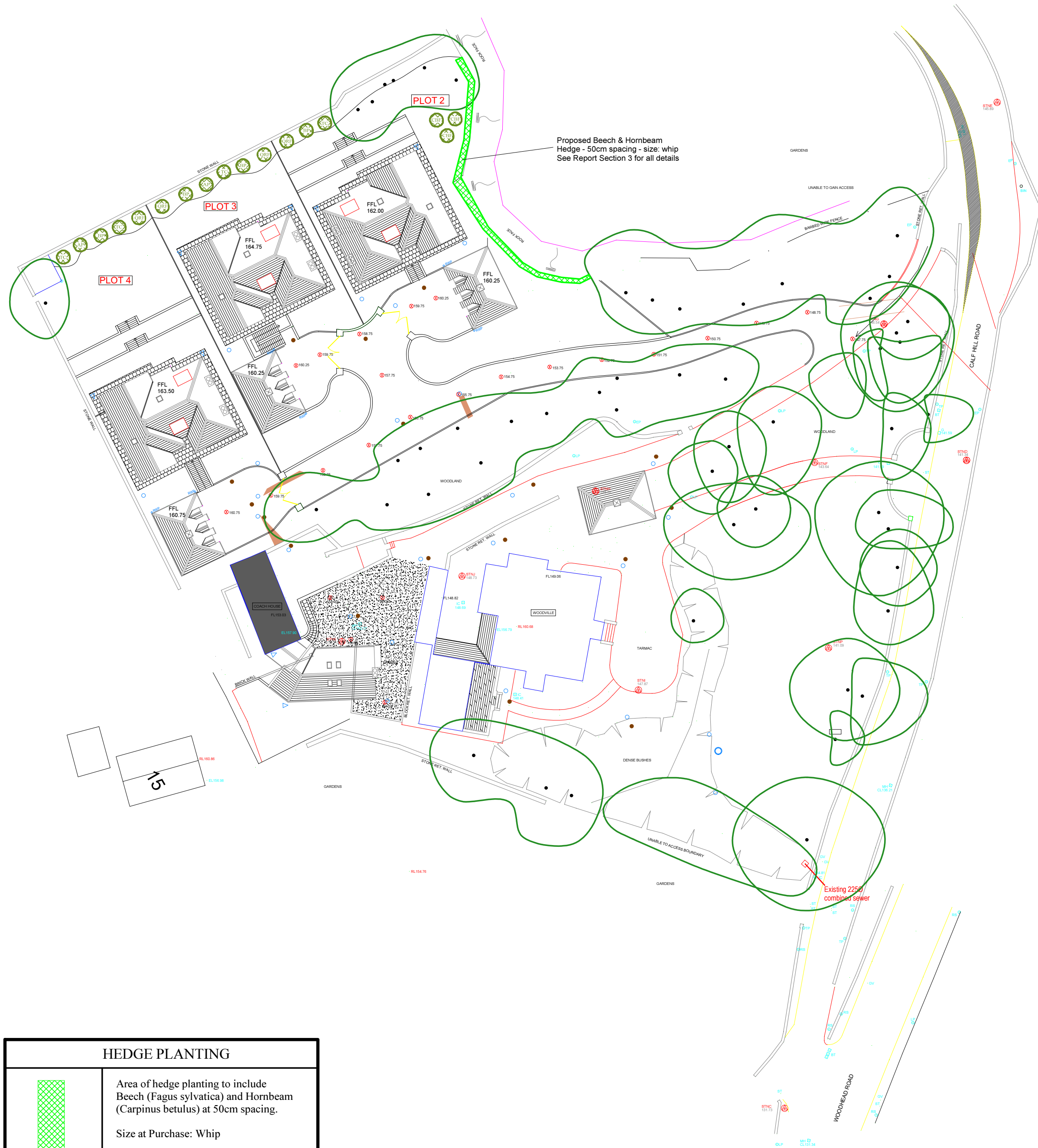
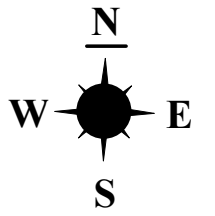
4 Aftercare

- 4.1 All newly planted trees and hedges are to be thoroughly watered immediately after planting (twice within the first 48 hours) and during any prolonged periods of dry weather.
- 4.2 Once planted, trees and hedges should be inspected on an annual basis for signs of poor condition or damage. Any specimens that die within the first 5 years after planting will be replaced with trees or shrubs of the same species and size.
- 4.3 Any trees or hedges in a private garden will be the responsibility of the house owner in the future.
- 4.4 Trees in public open spaces will be the responsibility of the managing agent for the site whether it is a private company contracted to do the work or the Local Authority. All tree and shrub works should be carried out between August and February, to avoid interference with the nesting bird period.
- 4.5 Any weeds found growing around the newly planted trees or hedges should be removed, annually in subsequent years after planting. This will help with the uptake of valuable resources such as water, nutrients and light. This must be done manually without the use of herbicides.
- 4.6 Tree ties should be inspected annually, and adjusted if required. Tree ties and stakes should be removed within three years of planting unless establishment is deemed to be unusually slow.
- 4.7 New bark mulch should be applied around the base of each specimen to a depth of no less than 75mm, each year for at least the first three years. This will conserve water close to the soil surface and inhibit weed growth.

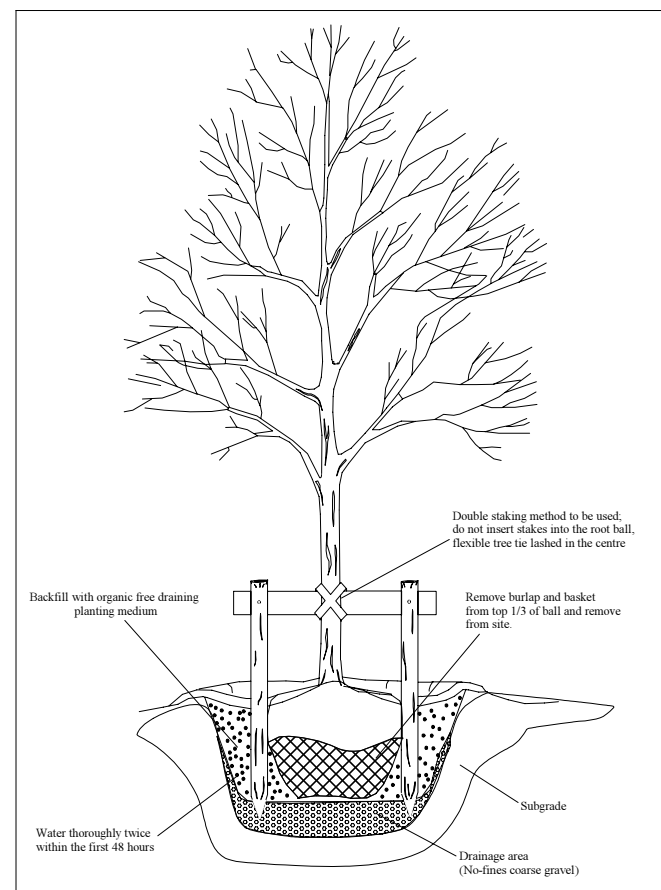
5 Supply and Planting Assistance

- 5.1 In addition to preparing bespoke planting schemes, JCA can also arrange for the supply and planting of trees, shrubs and hedges for all sized projects, be it a single specimen or a large scale planting scheme.
- 5.2 Please contact JCA should you require information or advice relating to the supply and planting of trees, shrubs and hedges.

Appendices



Inset 1: an example of planting a tree in an open area or grass strip



HEDGE PLANTING	
	Area of hedge planting to include Beech (<i>Fagus sylvatica</i>) and Hornbeam (<i>Carpinus betulus</i>) at 50cm spacing. Size at Purchase: Whip

Appendix 1: Planting Scheme Plan

ADDRESS: Woodville, Calf Hill Road,
Holmfirth, Huddersfield, HD9 3UB.
JCA REF: 12755a/ChC

SCALE: 1:500

PAPER SIZE : A2

TREE PLANTING & KEY

	<i>Tilia cordata</i> (Small Leaved Lime)
	<i>Quercus robur</i> 'fastigiata' (Fastigiated Common Oak)
	<i>Carpinus betulus</i> 'fastigiata' (Fastigiated Hornbeam)
	<i>Acer platanoides</i> (Norway Maple)
	<i>Betula pendula</i> (Silver Birch)
	Existing/Retained Trees

I hope that this scheme and methodology provides all the necessary information, but should any further advice be needed please do not hesitate to contact the author.

Signed



.....
Charles Cocking

On behalf of

Jonathan Cocking F.R.E.S., Tech. Cert. (Arbor.A), PDipArb (RFS) FArborA CBiol MSB.
MICFor.

27th July 2016

For and on behalf of *JCA Ltd*

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Photo front cover: Sluice at Bowers Mill

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