Pyramid Consulting

Arboricultural Consultancy

New General Purpose Agricultural Building
College Farm, Wendlebury,
Bicester OX25 2PR.

Presented by

Mr. Peter Harding *M. Arbor, Dip. For.*

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Landscaping Scheme

Clients: Mr Tim Howard
Site: College Farm, Wendlebury, Bicester OX25 2PR
(Erection of general purpose agricultural building.)

Arboricultural Consultant: Peter Harding *M. Arbor A, Dip For.*

Date: 13/01/21

1.0 Introduction

It is proposed that a new general purpose agricultural barn is erected on an existing hard standing within the complex of farm buildings at College Farm, Wendlebury.

2.0 Instructions

I have received instructions from Mr Tim Howard, the owner of the property, to produce a specification for tree and shrub planting designed to enhance the visual and environmental value of the farm. This Landscaping Scheme relates only to the area immediately adjacent to the proposed new barn.

3.0 The Site

College Farm is a working livestock farm with a complex of various farm buildings located to the southeast of the Oxfordshire village of Wendlebury. The proposed new barn will be located immediately adjacent to an existing cattle barn.

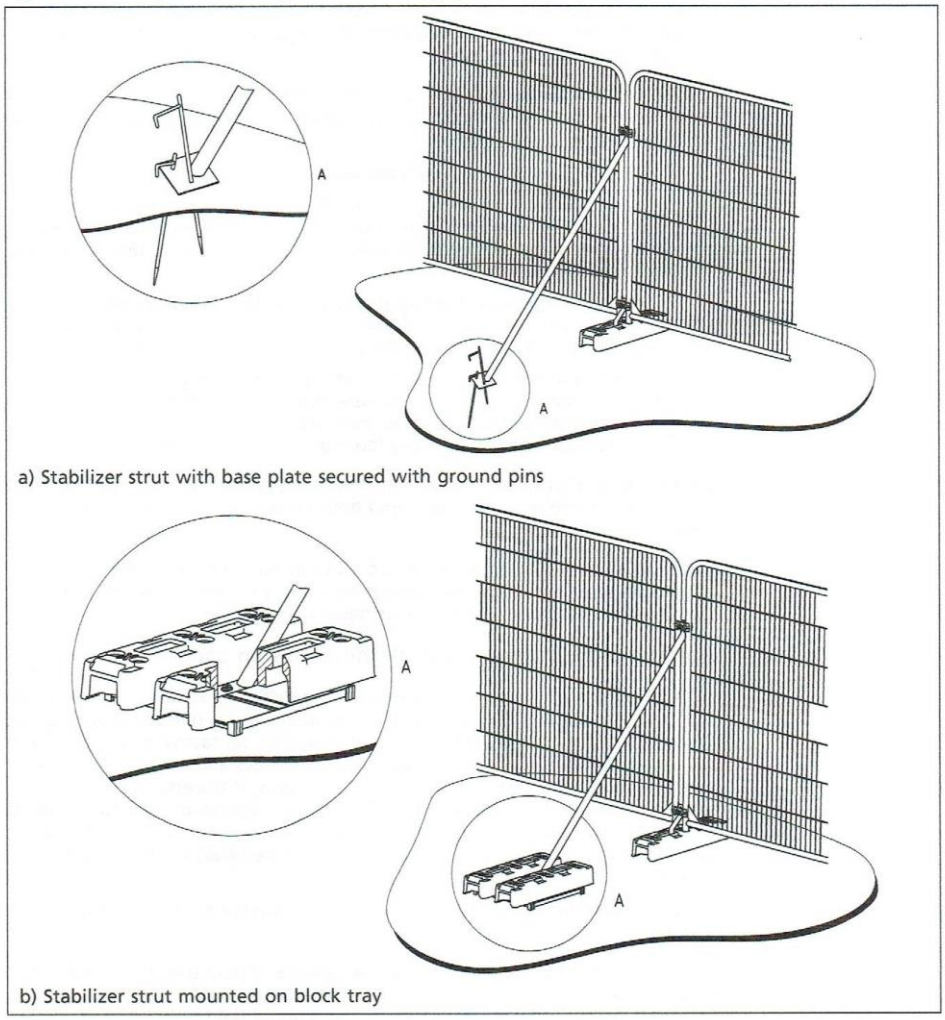
4.0 The Soil

The soils on site are described by Cranfield University Soils and Agrifood Institute 'Soilscapes' map as 'slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils'. The soil is not compacted and no soil remediation other than that recommended for planting pits (see paragraph 11) is required.

5.0 Current Vegetation Cover

There is no vegetation located in the immediate construction area. There is a belt of mixed broadleaved trees (which were planted around 20 years ago) to the east of the proposed building. The main stems of these trees are approximately 5m from the edge of the new building and will be protected during construction with fencing as recommended in British Standard 5837: 2012 Trees in Relation to Design, Demolition and Construction – Recommendations [BS5837] paragraph 6 figure 3 (see below).

Figure 3 **Examples of above-ground stabilizing systems**



The location for the fencing is shown on the Landscaping Plan (Appendix 1).

6.0 Site Plan

A plan of the proposed Landscaping is attached in Appendix 1.

This plan was derived from the proposed site plan (drawing no. 20. 192. 03. Rev. A) supplied by Planned Approach Architects.

7.0 Proposed New Tree and Shrub Planting

In order to screen the barn from the public right of way to the west, a belt of trees will be planted to the west of the access track. It will be planted predominantly with bare rooted transplants which will establish rapidly. They will be planted 1m apart at irregular spacing in groups of 7, 9 or 15.

Interspersed within the planting area, at approximately regular spacing, will be 12 heavy standard trees which, although much slower to establish will give some immediate height to the plantation.

9.0 Tree Stock & Nursery Specification

The trees and shrubs for the main body of the plantation will be 45 – 60cm 1+1 or 1 u 1 bare rooted transplants. There will be 405 trees. They will consist of 45% Hawthorn (*Crataegus monogyna*) – a total of 182 trees, 45% Blackthorn (*Prunus spinosa*) – a total of 182 trees, and 10% Field Maple (*Acer campestre*) – a total of 41 trees.

The twelve standard trees will be root-balled heavy standards of a minimum 12 - 14cm girth. These specimens must be as those classified in BS8545:2014 Trees from nursery to independence in the landscape. Recommendations. They will consist of 3 English Oak (*Quercus robur*), 2 Common Hornbeam (*Carpinus betula*), 2 Small-leaved Lime (*Tilia cordata*), 2 Silver Birch (*Betula pendula*), 1 Wild Cherry (*Prunus avium*), 1 Common Alder (*Alnus glutinosa*) and 1 Field Maple (*Acer campestre*).

A suitably qualified and experienced Arboriculturalist should select all trees and shrubs from an HTA-certified nursery. All transplants must be supplied in accordance with Horticultural Trade Association's National plant Specification.

10.0 Timing of Planting

Tree planting should be undertaken in the 2021/22 planting season between 1st November and 31st March, or the first planting season after the construction of the barn.

11.0 Planting & Young Tree Protection

Delivery and backfilling of all plant material to be in accordance with BS4428/JCLI/CPSE Code of Practice for handling and Establishing Landscape Plants, Parts I, II and III.

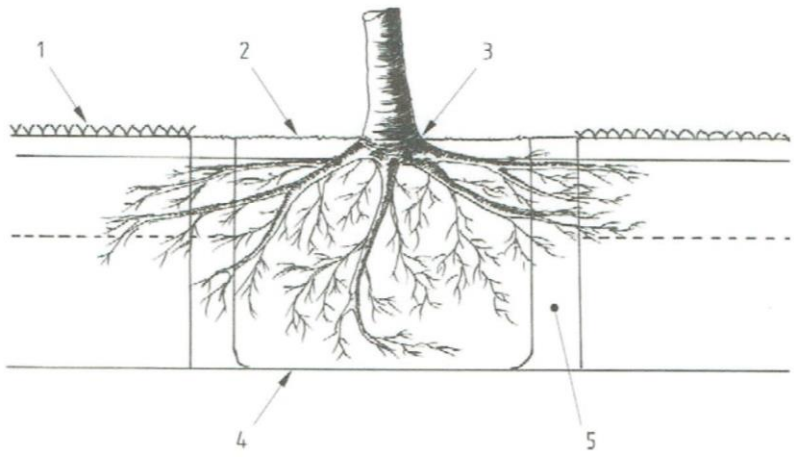
Trees and should be planted no deeper than the nursery mark and soil 'firmed' to ensure satisfactory interaction between the roots and the soil.

All tree roots are to be covered and protected until they are planted.

Transplants will be notch planted after removing a turf (where necessary) from the ground.

The standard trees will be planted in a planting pit as specified in BS8545:2014 Trees from nursery to independence in the landscape. Recommendations (see diagram below).

Figure F.1 **Tree pit design: Planting in grass**



Key

1 Grass sward
2 Tree pit surface as large as possible, with organic mulch layer
3 Root flare
4 Base of tree pit undisturbed unless drainage problems are apparent
5 Backfill replicating existing topsoil/subsoil profile

NOTE This is an example of tree pit design where there are no site constraints (support systems have been left out).

Where it is necessary to import new soil to planting pits, the subsoil must comply with BS 8601:2013: Specification for subsoil and requirements for use (imported subsoil to be laid on site's existing subsoil profiles) and the topsoil with BS 3882:2015 Specification for topsoil – General Purpose Grade. All top soiled areas will be cleared of rocks and rubble larger than 50 mm diameter and any other debris that may interfere with the establishment of plants. The soil in tree pits should be to the depth and volume specified in BS8545:2014.

The trees will be supported by 2 x 1.8m high "fencing" stakes positioned to each side of the tree and driven at least 50cm into the ground for support. A rubber tie will then be used to secure the tree to the stake. This system will be in place for the first 3 – 5 growing seasons. A 75mm layer of organic mulch will be positioned at the base of each of these trees in order to suppress weeds and assist with moisture retention. The planting pit should be as specified in BS8545:2014 Trees from nursery to independence in the landscape. Recommendations (see diagram below).

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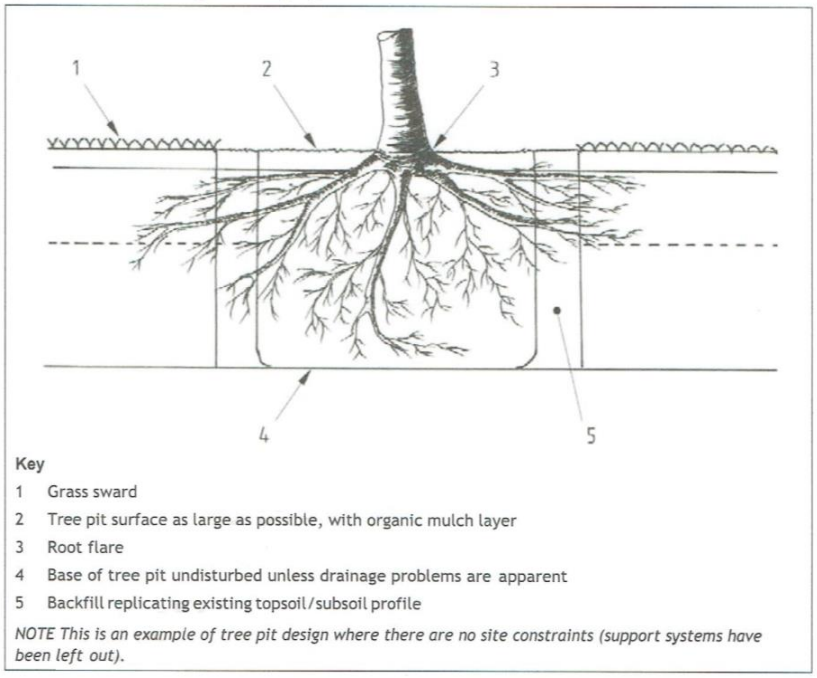

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NOTE This is an example of tree pit design where there are no site constraints (support systems have been left out).

Trees will be watered to field capacity immediately after planting. All trees will be checked annually for the first 5 years, and any failed trees will be replaced.

All trees will be protected with biodegradable rabbit spirals.

Where it is necessary to protect building foundations or services, a root barrier (such as Reroot 1000) will be used.

13.0 Aftercare & Watering

The new standard trees will require watering to field capacity during dry periods. This should be done either early in the morning or late evening to allow the trees to gain full benefit. The timing and frequency of this will be dependent on weather. It is realized that watering is not practical for transplants.

The trees will be kept free from weed and grass competition by ensuring the mulch is replenished regularly and hand weeding where necessary.

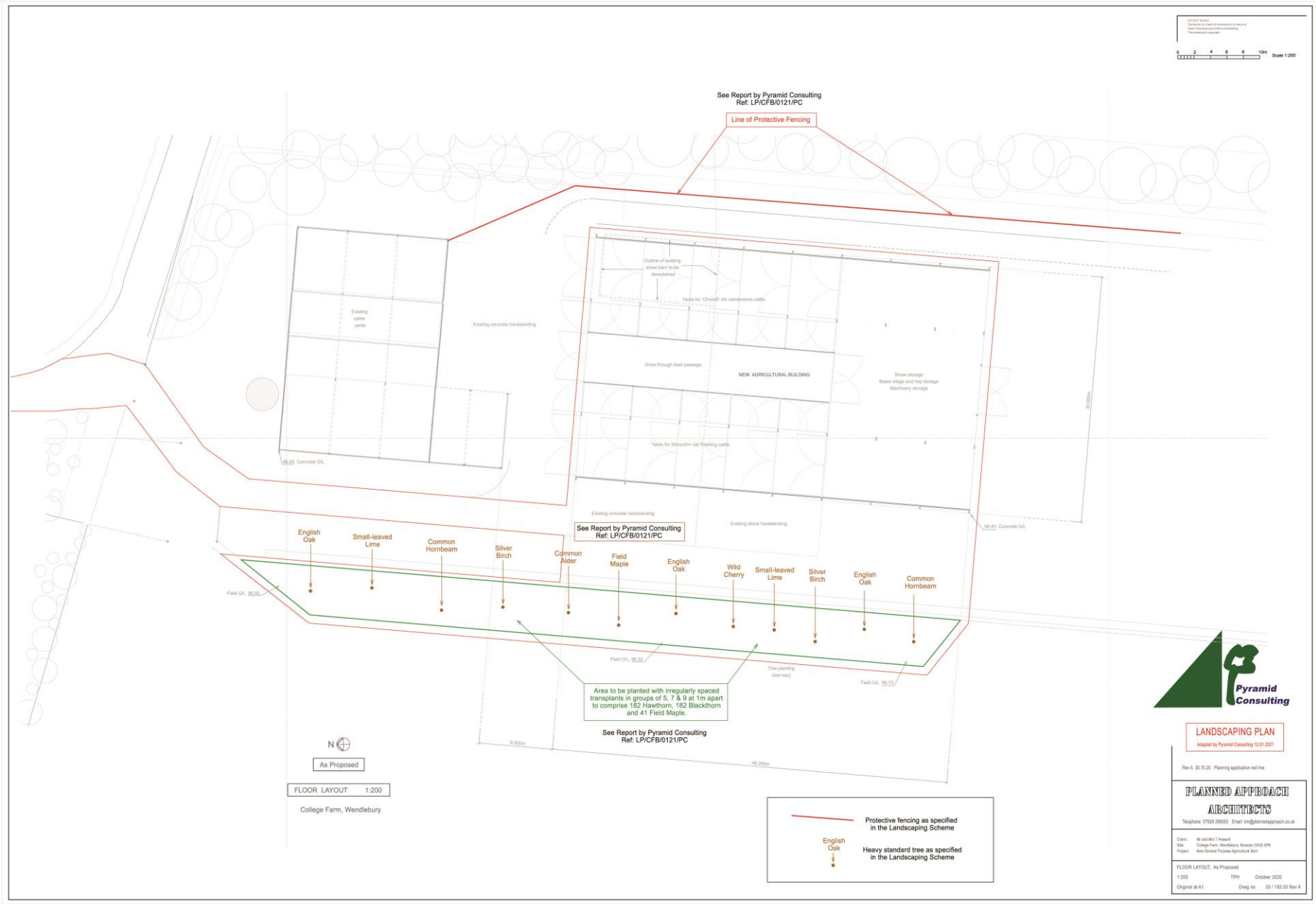
Stakes on standard trees are to be monitored and adjusted to allow the tree to grow freely and will only be removed when no longer required.

Formative Pruning should occur on the standard trees within the first 5 years.

Appendix 1 – Site Plan

Landscaping Plan Showing Locations of New Tree Planting

TO BE PRINTED AT A1 IN COLOUR FROM PLANS SUPPLIED WITH THIS DOCUMENT


See Report by Pyramid Consulting
Ref: LP/CFB/0121/PC
Line of Protective Fencing
NEW AGRICULTURAL BUILDING
See Report by Pyramid Consulting
Ref: LP/CFB/0121/PC
English Oak
Small-leaved Lime
Common Hornbeam
Silver Birch
Common Alder
Field Maple
English Oak
Wild Cherry
Small-leaved Lime
Silver Birch
English Oak
Common Hornbeam
Area to be planted with irregularly spaced transplants in groups of 5, 7 & 9 at 1m apart to comprise 182 Hawthorn, 182 Blackthorn and 41 Field Maple.
See Report by Pyramid Consulting
Ref: LP/CFB/0121/PC
N
As Proposed
FLOOR LAYOUT 1:200
College Farm, Wendlebury
Protective fencing as specified in the Landscaping Scheme
English Oak
Heavy standard tree as specified in the Landscaping Scheme
Pyramid Consulting
LANDSCAPING PLAN
Adopted by Pyramid Consulting 13.01.2021
PLANNED APPROACH ARCHITECTS
FLOOR LAYOUT, As Proposed
1:200
TPH
October 2020