

HILL END ROAD

MAPPLEWELL

ARBORICULTURAL METHOD STATEMENT

ref: 3763.01.001

TEP
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Offices in Warrington, market Harborough, Gateshead, London and Cornwall

Hill End Road, Mapplewell

Arboricultural Method Statement
Introduction and Overview

This Arboricultural Method Statement (AMS) outlines the parameters within which construction and remediation must be undertaken in order to retain protected trees in satisfactory condition and to discharge Condition 6 of the approved planning application (Ref: 2016/0474).

No trees within the site would be retained. This document details reasonable measures to control and monitor effects on retained trees outside the site, many of which are very close to the boundary.

Because of the previous usage of the site as a scrap yard, the presence of heavily compacted ground conditions, the presence of thick concrete slabs, and the presence of walls along the boundaries, it is anticipated that root spread into the site will be relatively limited. It is practically impossible to anticipate the actual root architecture and also impossible to remove the existing hard surfaces without causing root damage to roots that do exist beneath them. If roots do extend within the site, they are likely to be less physiologically important than those in adjacent and relatively less constrained growing conditions. For these reasons and also because of the vigorous and resilient nature of the species (principally hybrid cypres, poplar and willow) growing around the site and the age and condition of those trees, it is considered appropriate to allow construction within what might normally be regarded as the Root Protection Area. The most proportionate response to the presence of the trees and the recommendations of BS5837 is to minimise harm and monitor the outcome.

The contents of this document can therefore be summarised by the following three commitments:

- *Reasonable measures to avoid damage to trees will be implemented;*
- *The actual level root disturbance and/or loss will be monitored;*
- *The response of remaining trees to the works will be monitored.*

Failure to adhere to the correct sequence, manner and timing of operations detailed below may result in irremediable damage to trees, and thereby breach of planning consent. Retained trees are protected by planning law and reckless damage or tree removal could result in a stop notice or prosecution.

GENERAL TERMS

A. These documents should be reproduced in colour and at A3 size.
B. The site manager will read and understand this Method Statement. It will be the responsibility of the site manager to ensure compliance with this Method Statement.
C. A copy of this Method Statement will be made available for inspection on site and introduced to all relevant contractors.
D. An arboricultural contractor will be appointed to undertake the removal of trees.
E. An arboricultural consultant will be appointed to supervise certain activities as specified by this document. They must be provided with contact details for the site manager and notified of the date of commencement of works.
F. If unexpected large roots (>25mm diameter) are encountered during excavation works or if additional pruning of branches is required the arboricultural consultant will be contacted.
G. The site manager will be responsible for contacting the arboricultural consultant as required by this AMS or any requirement to enter a protected area arises.
H. Each of the elements within this Method Statement will be signed-off by the arboricultural consultant in the Operations Sign-off inset below.

POST-CONSTRUCTION MONITORING

I. All remaining trees that are shown in this document will be inspected every 6 months for a period of not less than two years by a competent arboriculturist (i.e. 5 inspections).
J. The first inspection will be undertaken prior to first occupancy.
K. The condition of trees and their response to the construction works will be assessed and remedial works will be recommended.
L. Works to TPO trees will not be undertaken without the appropriate consent. Felling licences will be sought where appropriate.
M. A record of all inspections, recommendations and the completion of works will be maintained.

Arboricultural Consultant:

Telephone: | Email:

AMS 01	*Tree works*	Date:	Initials:
AMS 02	*Tree protection fencing*	Date:	Initials:
AMS 03	Supervised Working	Date:	Initials:

The above Method Statement elements have been discharged in full to the best of my knowledge and professional assessment. Where there has been any deviation from the specification, I am satisfied that this has not been injurious to retained trees and that all such deviations have complied with the spirit of the instruction insofar as was reasonably practicable or were approved in advance by the proper authority.

Signed:

.....

Sequence of Events

(Must be undertaken in strict chronological order)

1.	Complete all Tree Works according to *AMS 01 Tree Works*. This must be done before site access, set-up, compound creation, any delivery of materials or plant, and before commencement of ground works or construction.
2.	Install Tree Protection Measures in locations according to *AMS 02 Site Setup and Tree Protection* or maintain existing boundary walls and fences in lieu of tree protection fencing.
3.	Supervised breaking out and removal of hard surfaces in identified areas according to *AMS 03 Supervised Working.*
4.	Inspect all trees every 6 months and maintain a record of findings, recommendations and works.

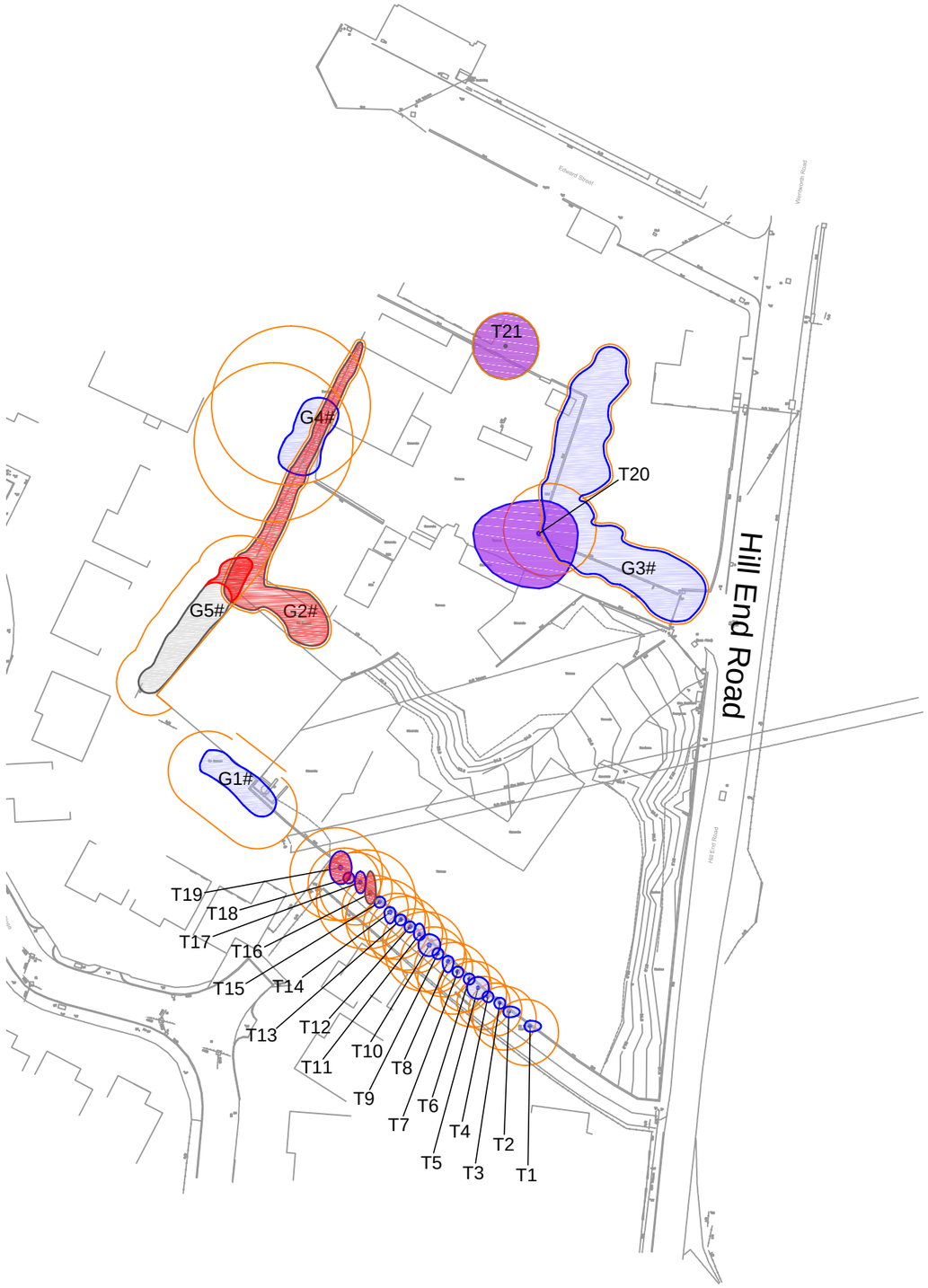
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Arboricultural Method Statement 01
Tree Works

Tree removal and pruning according to this method statement must be completed before commencement or works, including the creation of compounds, access by vehicles or plant, delivery of materials, ground investigations or works, or any other construction works.

SEQUENCE OF EVENTS (presented in strict order of completion)

1. A site meeting will be arranged by the Site Manager between the appointed Arboricultural Contractor and the Arboricultural Consultant.
2. The Arboricultural Consultant will outline the scope of works according to this approved document.
3. Trees may be marked with spray by the Arboricultural Consultant to assist with identification where necessary.
4. Trees indicated by a red hatch on this plan will be removed:
   - 4.1. All of G2 will be removed;
   - 4.2. Four cypress trees in G5 (those growing within concrete block raised planter/retaining structure) will be removed;
   - 4.3. T17, T18 and T19 will be removed to facilitated utilities connection into Spey Close;
   - 4.4. T16 will be removed due to a developing stem defect.
5. All stumps will be grubbed out except for T16 to T19, which will be ground out.
6. T21 will be cut back with bypass hedge cutters as hard as is possible without removing all foliage on the southern side and not further than the boundary.
7. Tree T20 will be pollarded. Suitable pollard points will be jointly identified during the initial site meeting.
8. Works will be completed according to BS3998:2010 by a suitably qualified, experienced and insured contractor.
9. Plant and vehicles used for the tree works and storage of fuels and oils will not be permitted beneath the canopy of any retained tree or within its Root Protection Area except where there is existing hardstanding.
10. If works are completed within bird nesting season (March to August inclusive) checks of all trees, shrubs and any unprocessed piles of brash that have been left unattended will be undertaken within 24 hours prior to disturbance.
11. Arisings will be processed by chipping and removed from the site.
12. The completion of tree pruning and removal works according to this Method Statement will be verified by the Arboricultural Consultant.



KEY

[This drawing must be reproduced in colour]

- T1 Individual trees
- G1 Groups of trees
- Root Protection Area (RPA)
- Survey Boundary
- # Approximate location (Feature not shown on topo)
- Trees, groups and woodland to remove
- Trees, groups and woodland to prune

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category B (Moderate quality)
- Category C (Low quality)

NOTE: This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

Rev	Description	Drawn	Approved	Date

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Project
Hill End Road, Mapplewell
Arboricultural Method Statement

Title
AMS 01 Tree Works

Drawing Number
D3763.01.001

Drawn	Checked	Approved	Scale	Date
TDP	RMG	RMG	1:500 @ A3	16/10/2017

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Arboricultural Method Statement 02
Site Setup and Tree Protection

The installation of physical tree protection measures must be completed before commencement or works, including the creation of compounds, access by vehicles or plant, delivery of materials, ground investigations or works, or any other construction works. All tree protection must be retained throughout construction and not modified in any way or removed except in strict compliance with this method statement.

SEQUENCE OF EVENTS (presented in strict order of completion)

1. Tree Protection fencing will follow the alignment shown opposite.
2. Tree Protection Fencing will follow the specification shown on D3763.01.004.
3. Where present, existing concrete block walls and palisade fences at the alignment shown opposite will remain in situ and be regarded as Tree Protection Fencing.
4. At such time as the existing boundary treatment is removed, temporary fencing will be installed immediately following the same alignment.
5. If existing concrete walls are retained and faced up or clad, temporary fencing will not be required.
6. Signs as will be affixed to alternate fencing panels or to any structure retained in lieu of fencing (i.e. approximately one sign per 7m). A sign for printing is included on the last page of this method statement.
7. Tree protection will remain in situ for the duration of the construction or until its removal is specified by this method statement.
8. The installation and maintenance of tree protection measures according to this Method Statement must be verified by the Arboricultural Consultant.



KEY

[This drawing must be reproduced in colour]

- Retained trees, groups and woodland
- Retained hedgerow
- # Approximate location (Feature not shown on topo)
- Tree Protection Fencing

N

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Project
Hill End Road, Mapplewell
Arboricultural Method Statement

Title
AMS 02 Site Set-up and Tree Protection

Drawing Number
D3763.01.002

Drawn	Checked	Approved	Scale	Date
TDP	RMG	RMG	1:500 @ A3	16/10/2017

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Arboricultural Method Statement 03
Supervised Working

Within the site, all Root Protection Areas are currently surfaced. In many places, this surface comprises a substantial concrete slab such that root growth may be entirely or substantially impeded. As a precaution, removal of existing surfaces will be supervised by an Arboriculturist in the areas shown opposite.

In each area, the supervising Arboriculturist will ascertain one of two outcomes:

- *Supervision confirmed that roots were absent or that those present were immaterial;*
- *Supervision found that significant roots were present and identified a response to the findings.*

SEQUENCE OF EVENTS (presented in strict order of completion)

1. It will be the responsibility of the Site Manager to contact the Arboricultural Consultant prior to the breaking out of each of the areas identified.
2. The Arboricultural Consultant will be present during removal of hard surfaces and slabs until the extent of root distribution in each area has been established.
3. It may, at the discretion of the Arboriculturist, be possible to draw conclusions prior to removal of all surfaces (such as by beginning with trial pits in the area closest to trees or if new information comes to light).
4. During breaking out, vehicles and plant will not track onto newly exposed ground and surfaces and structures will be pulled inward towards the site interior.
5. Material will not be stored on newly exposed ground.
6. In each area, the Arboriculturist will determine whether significant roots are present.
7. Where no roots are present or where roots are sufficiently small or few to be immaterial, works in those areas will thereafter continue without supervision or further amendment to methodology.
8. If roots are found, appropriate measures will be identified for their protection. These will comprise one or more of the following list of options:
   - 8.1. If root pruning is appropriate and can be undertaken without significant detriment to the tree, roots will be carefully uncovered and pruned using a pruning saw or bypass secateurs;
   - 8.2. If root pruning cannot be tolerated, tree protection fencing will be extended to include additional areas as identified by the Arboriculturist;
   - 8.3. Where fencing cannot be installed, ground protection according to BS5837:2012 may be used.
9. In each additional area of tree protection, measures will be specified to ensure the protection of roots during construction. If these measures would necessitate amendments to approved detail, they will not be implemented without the consent of the LPA.
10. If it is not possible to protect roots throughout the construction period and also not possible to guarantee the immediate safety of trees thereby affected, tree removal will be a last resort. An amended Tree Removal Plan will be submitted to the LPA for approval prior to the undertaking of works which would render tree retention untenable. Tree removal beyond that shown on this document will not be undertaken without written consent.
11. All trees which would not, in the judgement of the Arboriculturist, be rendered immediately hazardous by minor or moderate root disturbance (including compaction during breaking out), will be monitored on a 6-monthly basis as described by this document.



KEY

[This drawing must be reproduced in colour]

- Retained trees, groups and woodland
- Retained hedgerow
- # Approximate location (Feature not shown on topo)
- Tree Protection Fencing
- Supervised working area

N

Rev	Description	Drawn	Approved	Date

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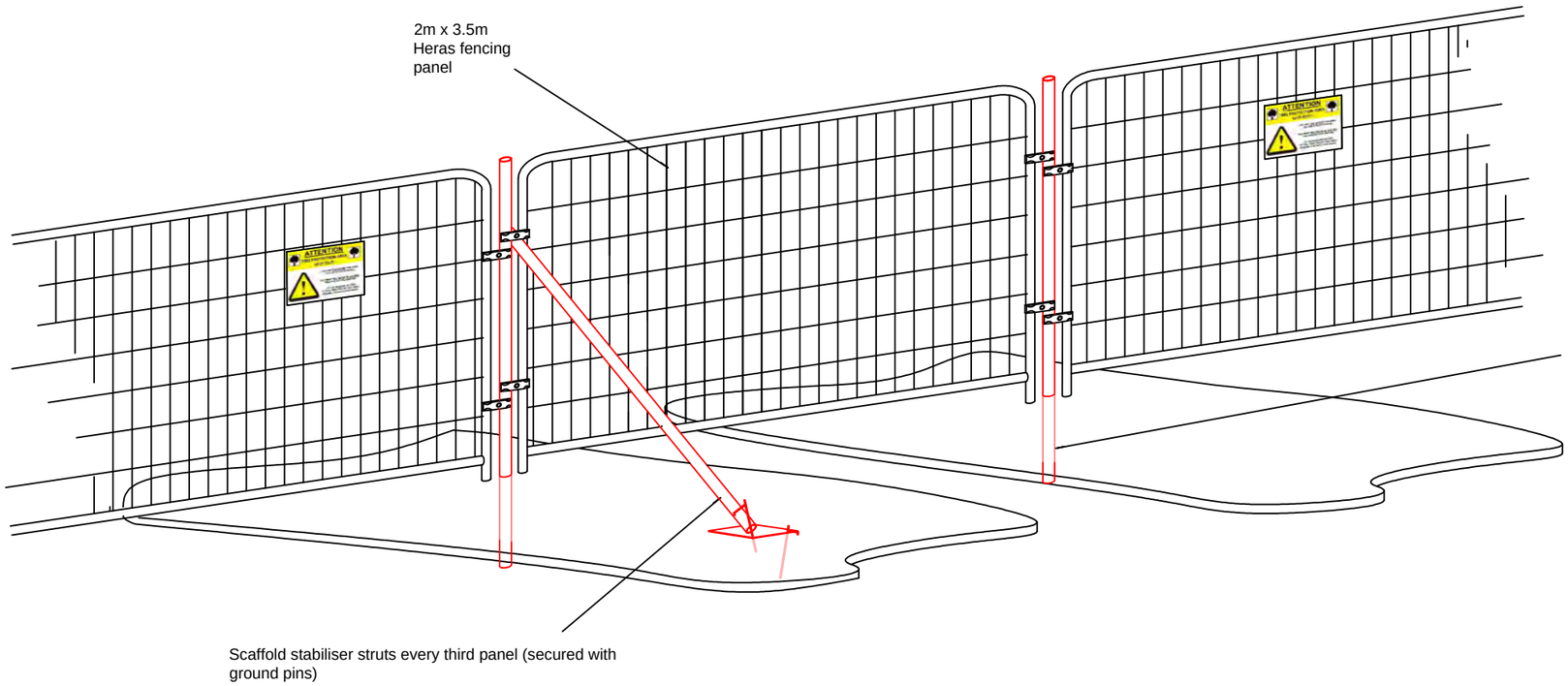
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Project
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Arboricultural Method Statement

Title
AMS 03 Supervised Working

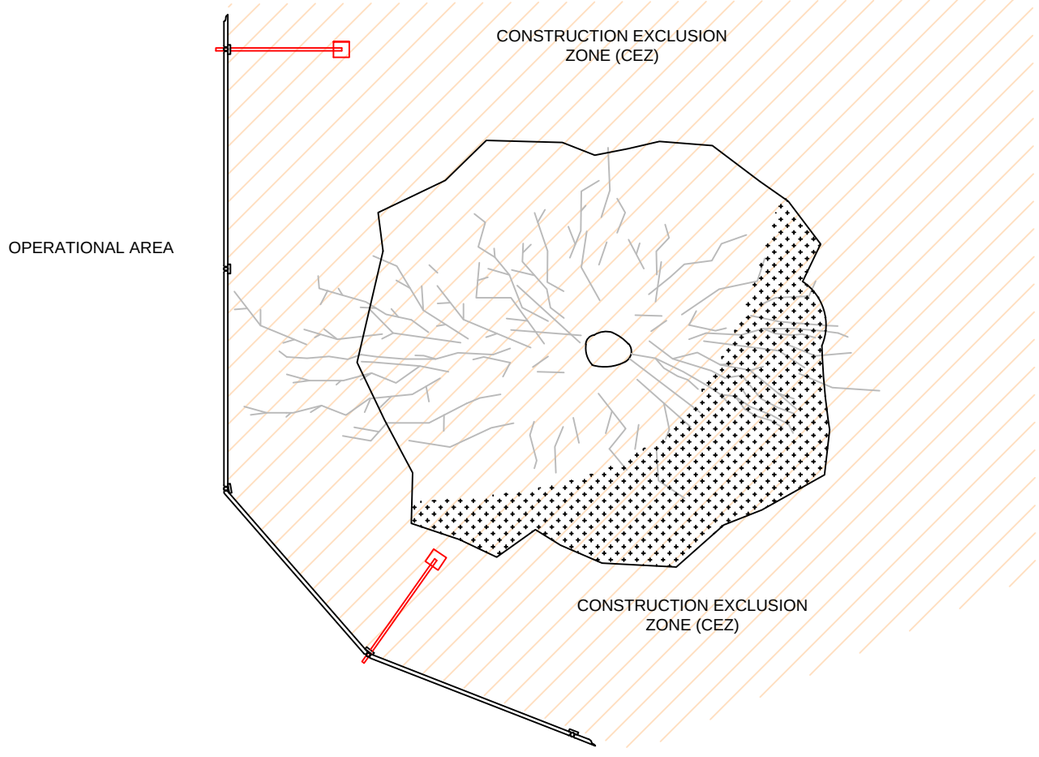
Drawing Number
D3763.01.003

Drawn	Checked	Approved	Scale	Date
TDP	RMG	RMG	1:500 @ A3	16/10/2017



Per 3No. Heras panels (10.5m)	
Component	Quantity
2m x 3.5m Standard Heras panels	3
3m Galvenised steel scaffold pole	3
Heras fecurity fence clip	12
Heras stabilising support bar	1
Stabilising pin	2
Tree protection notice	2

Notes:



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Project
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Arboricultural Method Statement

Title
Tree Protection Fencing Specification

Drawing Number
D3763.01.004

Drawn	Checked	Approved	Scale	Date
TDP	RMG	RMG	(not to scale) @ A3	16/10/2017

ATTENTION

TREE PROTECTION AREA
KEEP OUT!



YOU MAY <u>NOT ENTER</u> THIS AREA OR USE IT FOR STORAGE

YOU MUST <u>NOT MOVE OR DAMAGE</u> THIS PROTECTION FENCING

IF YOU REQUIRE ACCESS TO THE TREE PROTECTION AREA PLEASE CONTACT 01925 844004