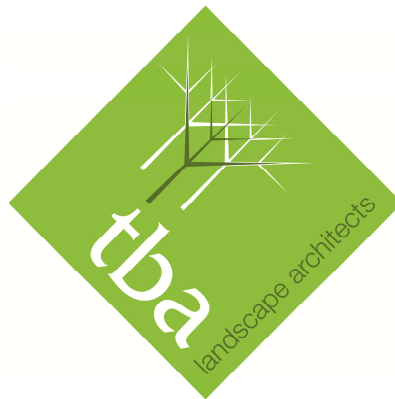


**Former Leyland Test Track
Phase 1 (Detailed Planning Application)
& Structure Plan (Outline Planning Application)**

Property Capital PLC

**ARBORICULTURAL IMPACT ASSESSMENT
AND
METHOD STATEMENT
(Revision E)**



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1.0 Introduction

- 1.1 This document has been prepared by Trevor Bridge Associates on the behalf of Property Capital PLC. It provides an Arboricultural Impact Assessment (AIA) and Arboricultural Method Statement (AMS) in regards to the following proposed development.
- Development of highway and drainage infrastructure for the full application site (Phase 1), and 197 new homes (Phase 2).
 - Outline proposals for the development of up to 753 new homes, up to 5,000 sqm of Business Park (Use Classes B1) up to 15,000 sqm (Use Class B2) and up to 3,000 sqm of accommodation for any combination of uses.
- 1.2 This document follows, and should be read in conjunction with, a pre-development tree survey that was undertaken by TBA Ltd in November 2016 (ref: MG/5035/TSR/WHOLE SITE/NOV16). Accompanying the tree survey report are 6x drawings; **Tree Survey and Root Protection Plans** ref. 5035.05 to 5035.10.
- 1.3 For the purposes of preparing this document the following material was referenced:
- Client Drawing: **Combined Barratt & DWH Layouts. Drawing No. 471_CL_01. Rev B. Date: Oct 2017.**
 - eScape Urbanists drawing: **Illustrative Masterplan. Drawing No. 15_008_P019. Rev M. Date: July 2018.**
- 1.4 This report assesses the potential impacts to trees as a consequence of the development proposals, as well as specifying the necessary methodologies required during construction to ensure that trees being retained are afforded adequate protection from harm.
- 1.5 Accompanying this report are the following drawings which must be read in conjunction with this report:
- **TBA Drawing: Tree Protection Plans. Drawing Nos. 5035.12 to 5035.18 Rev E. Date started: October 2017.**

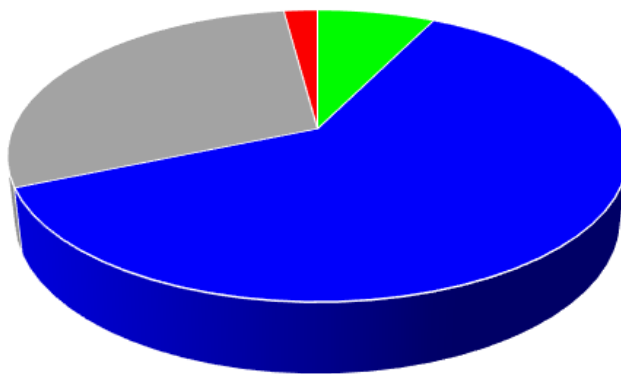
2.0 Arboricultural Impact Assessment

2.1 The consequences on existing trees situated within and adjacent the proposed development site are considered.

2.2 The value of the trees and vegetation surveyed

In the initial tree survey report a total of 287 items were surveyed within and adjacent the development site. These items comprised 186 individual trees, 99 groups (of various sizes) and 2 woodlands. The chart and table below shows the ratio of tree retention categories on the site and number of items (be it groups or individuals etc that were surveyed).

Ratio of retention categories of surveyed trees/vegetation



Retention Category	No.
A (High Value)	21
B (Moderate value)	176
C (Low value)	84
U (Remove)	6

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3.0 Arboricultural Impact Table - Key

3.1 The Arboricultural Impact Table (section 3.3) lists all items surveyed within the site. The tree data is taken from the initial tree survey report. The table is colour coded for ease of reference, particularly in relation to the value of trees and the potential impact that may occur to them:

Tree Values

High	High value tree / group / hedge as included within the initial tree survey
B (Moderate)	Moderate value tree / group / hedge as included within the initial tree survey
C (Low)	Low value tree / group / hedge as included within the initial tree survey
U (Remove)	Tree / group / hedge in poor condition. Retention unsustainable within context of development

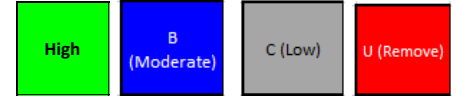
Impacts on Tree's / Groups

Removal	Tree / Group / Hedge will require removal in order to facilitate the development proposals
Partial Removal	Group or hedge will require partial removal to facilitate the development proposals
High	The development proposals will have a high impact the on the tree /group / hedge
Moderate	The development proposals will have a moderate impact on the tree / group /hedge
Low	The development proposals will have a low impact on the tree / group / hedge
None	The development proposals will have no impacts on the tree / group / hedge

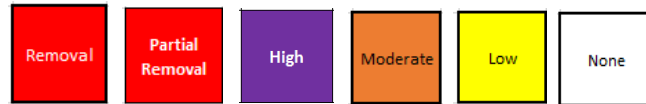
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3.2 Arboricultural Impact Table - Cascade Chart:

3.2.1 Tree **Values** are taken from BS: 5837 and comprise of the following:



3.2.2 The **Impacts** comprise of 6 elements:



3.2.3 Causes of impacts comprise of 6 factors: **'None'**, **'To facilitate development'**, **'Due to poor condition'**, **'Direct disturbance to roots'**, **'Pruning required'** and **'Possible future pruning pressure due to shade and other factors'**.

3.2.4 Comments are also included providing more information where necessary.

	REMOVAL	PARTIAL REMOVAL	HIGH	MODERATE	LOW
TO FACILITATE DEVELOPMENT	Tree / group requires removal.	Partial removal of group is required. I.e., 'a section of hedge may require removal to allow a new access road'.	N/A	N/A	N/A
DUE TO POOR CONDITION	Tree or group require removal due to poor structural and / or physiological condition.	Part of group require removal due to poor structural and / or physiological condition.	N/A	N/A	N/A
DIRECT DISTURBANCE TO ROOTS	N/A	N/A	In many case this will result in the loss of tree/s - refer to 'TO FACILITATE DEVELOPMENT' . In rare cases a Tree/s may be retained but damage will occur to the roots.	Disturbance will be caused to roots of a tree/s that are likely to result in some physiological and structural dysfunction. The extent of damage does not require trees to be felled. Remedial actions may be taken in some cases that would help mitigate against damage but site topography, tree age, condition and species condition may result in disturbance being considered MODERATE as opposed to LOW .	Activity will occur within the root protection area of trees which will have a low impact, or can be mitigated by special measures.
PRUNING REQUIRED	N/A	N/A	Pruning that may retain a tree but will have a potential impact on the tree condition and visual appearance	Pruning is required that is acceptable within recommendations within BS3008:2010, but would require a material alteration to the tree/group affected.	Pruning is required that will have little impact to the structural, physiological and visual amenity of a tree or group.
POSSIBLE FUTURE PRUNING PRESSURE DUE TO SHADE OR OTHER FACTORS	Removal of tree/s required as retention is unsustainable and/or undesirable within the context of development. i.e. fast growing tree in small garden.	Partial removal of tree/s required as retention is unsustainable and/or undesirable within the context of development. i.e. fast growing tree in small garden.	Tree/s likely to cause significant shading. i.e. small garden areas with dense mature trees to south.	Some level of shade or other inconvenience will occur. Not highly oppressive, but some residents may seek management of trees in long term.	Some level of shading / overhang will occur.

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3.2.5 Considering both impacts within the hybrid application

3.2.6 As this report deals with a ‘hybrid application’, there will be a variance in the level of detail available throughout the site in regards to potential tree impact.

3.2.7 The Illustrative Master Plan provides indicative information, such as the location of further phases of residential development, as well as commercial, school, and local centre zones as well as open space.

3.2.8 The arboricultural impact table includes all trees within the site as determined within the tree survey. Those trees that are assessed within the detailed application (Phase 1) are shown within the table on a white background. For example:

8T	Ash	B (Moderate)	Removal	To facilitate development	N/a	N/a
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Trees that are impacted by the outline proposals are show with a pink background. For example:

61G	Mixed Species Group	B (Moderate)	Partial Removal	To facilitate development	Group situated to the north-east of the commercial parcel.	Tree protective fencing required.
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3.3 ARBORICULTURAL IMPACT TABLE – RESULTS

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
1T	Ash	B (Moderate)	None	N/a	Within section of woodland situated adjacent existing highway	N/a
2T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
3T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
4T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
5T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
6T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
7T	Common Oak	C (Low)	Removal	To facilitate development	Alterations to footway adjacent the tree.	N/a
8T	Ash	B (Moderate)	Removal	To facilitate development	Alterations to footway adjacent the tree.	N/a
9T	Ash	B (Moderate)	Removal	To facilitate development	Alterations to footway adjacent the tree.	N/a
10T	Ash	C (Low)	None	To facilitate development	Tree protective fencing required.	N/a
11T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
12T	Ash	U (Poor)	None	N/a	This tree may be retained as it is situated within woodland area, despite its condition.	N/a
13T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
14T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
15T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
16T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
17T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
18T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
19T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
20T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
21T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
22T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
23T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
24T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
25T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
26T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
27T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
28T	Ash	B (Moderate)	Removal	To facilitate development	New footway.	N/a
29T	Norway Maple	B (Moderate)	Removal	To facilitate development	New highway.	N/a
30T	Ash	B (Moderate)	Removal	To facilitate development	Adjacent new footway.	N/a
31T	Ash	B (Moderate)	Removal	To facilitate development	New highway.	N/a
32T	Ash	B (Moderate)	Removal	To facilitate development	New highway.	N/a
33T	Norway Maple	B (Moderate)	Removal	To facilitate development	New highway.	N/a
34T	Alder	B (Moderate)	Removal	To facilitate development	New highway.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
35T	Ash	U (Poor)	Removal	Due to poor condition	New highway.	N/a
36T	Willow	U (Poor)	Removal	Due to poor condition	New highway.	N/a
37T	Common Oak	B (Moderate)	Removal	To facilitate development	New highway.	N/a
38T	Ash	B (Moderate)	Removal	To facilitate development	New highway.	N/a
39T	Common Oak	B (Moderate)	Removal	To facilitate development	New footway.	N/a
40T	Ash	B (Moderate)	Removal	To facilitate development	Adjacent new footway.	N/a
41T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
42T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
43T	Ash	B (Moderate)	Low	Direct disturbance to roots	Minor ingress within the outer root protection area of this tree required for new footway.	Tree protective fencing required.
44T	Common Oak	B (Moderate)	Removal	To facilitate development	New cycleway.	N/a
45G	Group in generally poor condition.	C (Low)	Removal	To facilitate development	New highway.	N/a
46T	Wild Cherry	B (Moderate)	Removal	To facilitate development	New Highway.	N/a
47T	Ash	B (Moderate)	Removal	To facilitate development	Adjacent new highway.	N/a
48T	Ash	B (Moderate)	Removal	To facilitate development	New footway.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
49G	2x Oak and 2x Wild Cherry	B (Moderate)	Removal	To facilitate development	New highway.	N/a
50T	Ash	B (Moderate)	Removal	To facilitate development	Adjacent new footway.	N/a
51T	Ash	B (Moderate)	Low	Direct disturbance to roots	Minor ingress within the root protection area.	Tree protective fencing required.
52T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
53G	Mixed Species Group	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
54G	Mixed Species Group	b (Moderate)	None	N/a	Tree protective fencing required.	N/a
55G	Mixed Species Group	A (High)	None	N/a	Tree protective fencing required.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
56T	Willow	U (Poor)	Removal	Due to poor condition	Adjacent new footway.	The stump of this tree to remain in situ.
57T	2x Ash and 1x Sycamore	C (Low)	Partial Removal	To facilitate development	New highway.	Tree protective fencing required.
58T	Group of Hawthorn	C (Low)	Removal	To facilitate development	N/a	N/a
59G	Woodland Area	B (Moderate)	Partial Removal	To facilitate development	For new bridleway and turning head.	Tree protective fencing required.
60G	Hawthorn Group	B (Moderate)	Partial Removal	To facilitate development	For new bridleway.	Tree protective fencing required.
61G	Mixed Species Group	B (Moderate)	Partial Removal	To facilitate development	Group situated to the north-east of the commercial parcel.	Tree protective fencing required.
62G	Mixed Species Group	C (Low)	None	N/a	Outside development area.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
63G	Mixed Species Group	C (Low)	Partial Removal	To facilitate development	Group situated to the north-east of the commercial parcel.	Tree protective fencing required.
64G	Mixed Species Group	B (Moderate)	Removal	To facilitate development	Within commercial parcel.	N/a
65T	Ash	B (Moderate)	Removal	To facilitate development	Within commercial parcel.	N/a
66T	Beech	A (High)	Low	Direct disturbance to roots	New footway will result in disturbance within the nominal root protection area of the tree.	Tree protective fencing required.
67G	Mixed Species Group	C (Low)	None	N/a	Tree protective fencing required.	N/a
68G	Mixed Species Group	B (Moderate)	Partial Removal	To facilitate development	Group situated to the east of the commercial parcel.	Tree protective fencing required.
69G	Mixed Species Group	C (Low)	Partial Removal	To facilitate development	Group situated to the east of the commercial parcel.	Tree protective fencing required.

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
70G	Mixed Species Group	C (Low)	Partial Removal	To facilitate development	Group situated to the east of the commercial parcel.	Tree protective fencing required.
71T	White Poplar	C (Low)	None	N/a	Tree protective fencing required.	N/a
72T	White Poplar	C (Low)	None	N/a	Tree protective fencing required.	N/a
73T	Horse Chestnut	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
74T	Ash	B (Moderate)	Removal	To facilitate development	Access route from Titan Way	N/a
75G	Mixed Species Group	C (Low)	Partial Removal	To facilitate development	Group situated to the south-east of the commercial parcel.	Tree protective fencing required.
76T	Ash	B (Moderate)	Removal	To facilitate development	Adjacent path from Titan Way	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
77T	Ash	B (Moderate)	Removal	To facilitate development	Adjacent path from Titan Way	For construction of Bridle path.
78T	Ash	A (High)	Low	Direct disturbance to roots	New footway will result in disturbance within the nominal root protection area of the tree.	Tree protective fencing required.
79T	Sycamore	B (Moderate)	Low	Direct disturbance to roots	New footway will result in disturbance within the nominal root protection area of the tree.	Tree protective fencing required.
80G	Mixed Species Group	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
81G	Mixed Species Group	C (Low)	Partial Removal	To facilitate development	Access path from Titan Way.	Tree protective fencing required.
82G	2x Horse Chestnut	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
83T	Horse Chestnut	B (Moderate)	None	N/a	Tree protective fencing required.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
84G	Mixed Species Group	C (Low)	Partial Removal	To facilitate development	New access road from Titan Way and sewer easement from Titan Way.	Tree protective fencing required.
85T	Ash	B (Moderate)	Low	Direct disturbance to roots	Ingress within the outer root protection area for construction of new access road.	Tree protective fencing required.
86T	Oak	B (Moderate)	Removal	To facilitate development	New access road from Titan Way	N/a
87T	Ash	B (Moderate)	Removal	To facilitate development	New access road from Titan Way	N/a
88G	Mixed Species Group	B (Moderate)	Partial Removal	To facilitate development	Within open space.	Partial removal required for new highway and access path.
89G	Row of Horse Chestnut	B (Moderate)	None	N/a	Off site. Within paradise park.	N/a
90G	Mixed Species Group	B (Moderate)	None	N/a	Off site. Within paradise park.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
91T	Sycamore	B (Moderate)	Removal	To facilitate development	For access road from Longmeanygate Road to the west.	N/a
92T	Sycamore	B (Moderate)	Removal	To facilitate development	N/a	N/a
93T	Ash	B (Moderate)	Removal	To facilitate development	N/a	N/a
94T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
95T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
96T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
97T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
98T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
99T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
100T	Common Oak	B (Moderate)	Low	Direct disturbance to roots	Minor ingress within the outer root protection area of this tree required for new highway access.	Tree protective fencing required.
101T	Common Oak	B (Moderate)	Removal	To facilitate development	The stump of this tree is to remain in situ or be ground out using a self powered stump-grinder.	N/a
102T	Silver Birch	B (Moderate)	Removal	To facilitate development	N/a	n/a
103T	Common Oak	B (Moderate)	Removal	To facilitate development	N/a	N/a
104T	White Poplar	b (Moderate)	Removal	To facilitate development	N/a	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
105T	Ash	B (Moderate)	Removal	To facilitate development	N/a	N/a
106T	Ash	B (Moderate)	Removal	To facilitate development	N/a	N/a
107T	Ash	B (Moderate)	Removal	To facilitate development	N/a	N/a
108T	Sycamore	B (Moderate)	Removal	To facilitate development	N/a	N/a
109T	Ash	B (Moderate)	Removal	To facilitate development	N/a	N/a
110T	Ash	B (Moderate)	Removal	To facilitate development	N/a	N/a
111T	Ash	B (Moderate)	Removal	To facilitate development	N/a	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
112T	Common Oak	B (Moderate)	Removal	To facilitate development	N/a	N/a
113T	Common Oak	B (Moderate)	Removal	To facilitate development	N/a	N/a
114T	Sycamore	B (Moderate)	Removal	To facilitate development	N/a	N/a
115T	Common Oak	B (Moderate)	Removal	To facilitate development	N/a	N/a
116T	Ash	B (Moderate)	Removal	To facilitate development	N/a	N/a
117T	Ash	B (Moderate)	Removal	To facilitate development	N/a	N/a
118T	Norway Maple	B (Moderate)	Removal	To facilitate development	N/a	N/a
119T	Lime	B (Moderate)	Removal	To facilitate development	N/a	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
120T	Lime	A (High)	Moderate	Direct disturbance to roots	Ingress within the outer root protection area for construction of access road.	Tree protective fencing required.
121T	Lime	A (High)	Low	Direct disturbance to roots	Ingress within the outer root protection area for construction of access road.	Tree protective fencing required.
122T	Norway Maple	A (High)	None	N/a	Tree protective fencing required.	N/a
123T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
124T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
125T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
126G	Group of Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
127T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
128T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
129T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
130T	Ash	B (Moderate)	Low	Direct disturbance to roots	Ingress within the outer root protection area for construction of new access road.	Tree protective fencing required.
131T	Ash	B (Moderate)	Moderate	Direct disturbance to roots	Ingress within the outer root protection area for construction of new access road.	Tree protective fencing required.
132T	Ash	B (Moderate)	Moderate	Direct disturbance to roots	Ingress within the outer root protection area for construction of new access road.	Tree protective fencing required.
133T	Common Oak	B (Moderate)	Low	Direct disturbance to roots	Ingress within the outer root protection area for construction of new access road.	Tree protective fencing required.

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
134T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
135T	Ash	B (Moderate)	Low	Direct disturbance to roots	Ingress within the outer root protection area for construction of new access road.	Tree protective fencing required.
136T	Common Oak	B (Moderate)	Removal	To facilitate development	New highway.	N/a
137T	Common Oak	B (Moderate)	Removal	To facilitate development	New highway.	N/a
138T	Sycamore	B (Moderate)	Removal	To facilitate development	New highway.	N/a
139T	Common Oak	B (Moderate)	Removal	To facilitate development	New highway	N/a
140T	Common Oak	B (Moderate)	Removal	To facilitate development	New Highway.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
141T	Ash	B (Moderate)	Removal	To facilitate development	Removal due to proximity of Plot 1.	N/a
142T	Ash	B (Moderate)	Removal	To facilitate development	New highway.	N/a
143T	Ash	B (Moderate)	Removal	To facilitate development	New highway.	N/a
144T	Ash	B (Moderate)	Removal	To facilitate development	Residential development.	N/a
145G	Mixed Species Group	B (Moderate)	Removal	To facilitate development	Residential development.	N/a
146G	Mixed Species Group	C (Low)	Partial Removal	To facilitate development	Residential development/highway.	Tree protective fencing required.
147G	Mixed Species Group	B (Moderate)	Removal	To facilitate development	Residential development.	N/a

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Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
148G	Row of Ash	B (Moderate)	None	N/a	By boundary of site.	N/a
149G	Mixed Species Group	C (Low)	None	N/a	By boundary of site.	Tree protective fencing required.
150G	Woodland Area	C (Low)	Partial Removal	To facilitate development	Tree protective fencing required.	Woodland area in vicinity of 91T to 140T.
151G	Mixed Species Group	C (Low)	Removal	To facilitate development	Open space/residential parcel.	Loss of group to enable ground works to pond area.
152G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within residential parcel.	Residential development will require loss of this group.
153G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within residential parcel.	Presumption that large low value group will require removal to facilitate development.
154G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within commercial parcel.	Presumption that large low value group will require removal to facilitate development.

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
155G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within commercial parcel.	Presumption that large low value group will require removal to facilitate development.
156G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within commercial parcel.	Presumption that large low value group will require removal to facilitate development.
157G	Mixed Species Group	C (Low)	None	N/a	Off-site group.	N/a
158T	Goat Willow	C (Low)	Removal	To facilitate development	Within commercial parcel.	Presumption that large low value tree will require removal to facilitate development.
159G	Goat Willow and Crack Willow	C (Low)	Removal	To facilitate development	Within residential parcel.	Presumption that low value group will require removal to facilitate development.
160G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within commercial parcel.	Presumption that large low value group will require removal to facilitate development.
161G	Alder	C (Low)	Removal	To facilitate development	Within commercial parcel.	Presumption that low value group will require removal to facilitate development.

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
162G	Alder	C (Low)	Removal	To facilitate development	Within commercial parcel.	Presumption that large low value group will require removal to facilitate development
163G	Elm and Alder	U (Poor)	Removal	Due to poor condition	Within open space/residential parcel.	Group requires removal for road access and swale.
164T	Common Oak	A (High)	Removal	To facilitate development	Within residential parcel.	Likelihood that tree will be removed within residential scheme.
165T	Ash	A (High)	Removal	To facilitate development	Within residential parcel.	Likelihood that tree will be removed within residential scheme.
166T	Goat Willow	C (Low)	Removal	To facilitate development	Within residential parcel.	Likelihood that tree will be removed within residential scheme.
167T	Ash	B (Moderate)	Removal	To facilitate development	Within residential parcel.	Likelihood that tree will be removed within residential scheme.
168T	Common Oak	B (Moderate)	Removal	To facilitate development	Within residential parcel.	Likelihood that tree will be removed within residential scheme.

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
169T	Alder	B (Moderate)	Removal	To facilitate development	Within residential parcel.	Likelihood that tree will be removed within residential scheme.
170T	Alder	B (Moderate)	Removal	To facilitate development	Within residential parcel.	Likelihood that tree will be removed within residential scheme.
171T	Alder	B (Moderate)	Removal	To facilitate development	Within residential parcel.	Likelihood that tree will be removed within residential scheme.
172T	Ash	A (High)	Removal	To facilitate development	Within residential parcel.	Likelihood that tree will be removed within residential scheme.
173G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within residential area.	Presumption that large low value group will require removal to facilitate development
174G	Mixed Species Group	C (Low)	Removal	To facilitate development	To facilitate access path/also within residential parcel.	Presumption that large low value group will require removal to facilitate development
175G	N/A				Number not allocated	

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
176G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within commercial parcel.	Presumption that large low value group will require removal to facilitate development
177G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within commercial parcel.	Presumption that large low value group will require removal to facilitate development
178G	Mixed Species Group	C (Low)	Removal	To facilitate development	To facilitate access road.	Presumption that low value group will require removal to facilitate development
179G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within residential parcel.	Presumption that low value group will require removal to facilitate development
180G	Mixed Species Group	B (Moderate)	Removal	To facilitate development	Within open space area.	Group would require removal for ground works and drainage construction within existing pond.
181G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within open space area.	Group would require removal for ground works and drainage construction within existing pond.
182G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within residential parcel.	Presumption that low value group will require removal to facilitate development

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
183G	Mixed Species Group	C (Low)	Removal	To facilitate development	To facilitate new highways and within residential area.	Presumption that large low value group will require removal to facilitate development
184G	Mixed Species Group	C (Low)	Removal	To facilitate development	To facilitate pond attenuation ground works.	N/a
185G	Crack Willows	C (Low)	Removal	To facilitate development	New highway access.	N/a
186T	Alder	B (Moderate)	Removal	To facilitate development	Residential development area.	N/a
187G	Mixed Species Group	C (Low)	Removal	To facilitate development	Residential development/highway.	N/a
188G	Mixed Species Group	C (Low)	Removal	To facilitate development	Highway and swales.	N/a
189G	White Poplars	B (Moderate)	Removal	To facilitate development	Highway.	N/a

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
190G	Mixed Species Group	C (Low)	Removal	To facilitate development	Swales.	Also refer to outline planning report
191T	Common Oak	A (High)	Removal	To facilitate development	Tree situated adjacent swale	Presumed loss of tree.
192T	Common Oak	A (High)	Removal	To facilitate development	Removal for sewer placement	N/a
193G	Mixed Species Group	C (Low)	Removal	To facilitate development	Removal for pond works.	N/a
194G	Alders	C (Low)	Removal	To facilitate development	Removal for pond works.	N/a
195G	Common Oaks	B (Moderate)	Removal	To facilitate development	Path passes through group.	N/a
196G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within residential parcel.	Presumption that large low value group will require removal to facilitate development

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
197G	Crack and Goat Willows	C (Low)	Removal	To facilitate development	Residential development.	Presumption that large low value group will require removal to facilitate development
198G	Mixed Species Group	C (Low)	Removal	To facilitate development	Swales and highway.	N/a
199T	Common Oak	A (High)	Low	Direct disturbance to roots	Minor disturbance to a section of the outer root protection area of the tree due to surrounding path.	Tree protective fencing required.
200T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
201G	Group of young Ash	C (Low)	Removal	To facilitate development	Access paths.	N/a
202T	Common Oak	A (High)	Removal	To facilitate development	Tree protective fencing required.	N/a
203T	Ash	B (Moderate)	Low	Direct disturbance to roots	Minor disturbance to a section of the outer root protection area of the tree due to adjacent path.	Tree protective fencing required.

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
204T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
205T	Common Oak	A (High)	None	N/a	Tree protective fencing required.	N/a
206T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
207T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
208T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
209T	Ash	B (Moderate)	Low	Direct disturbance to roots	Minor disturbance to a section of the outer root protection area of the tree due to adjacent path.	Tree protective fencing required.
210T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
211T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
212T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
213T	Ash	C (Low)	None	N/a	Tree protective fencing required.	N/a
214T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
215T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
216T	Ash	C (Low)	None	N/a	Tree protective fencing required.	N/a
217T	Common Oak	C (Low)	None	N/a	Tree protective fencing required.	N/a

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
218T	Ash	A (High)	None	N/a	Tree protective fencing required.	N/a
219T	Ash	B (Moderate)	None	N/a	Tree protective fencing required.	N/a
220T	Ash	B (Moderate)	Removal	To facilitate development	Access path adjacent tree.	N/a
221G	Row of Oak and Ash	B (Moderate)	Removal	To facilitate development	Access paths and residential development	N/a
222T	Ash	C (Low)	None	N/a	Tree protective fencing required.	N/a
223T	Common Oak	A (High)	None	N/a	Tree protective fencing required.	N/a
224T	Common Oak	B (Moderate)	None	N/a	Tree protective fencing required.	N/a

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
225T	Common Oak	A (High)	None	N/a	Tree protective fencing required.	N/a
226G	Group of Ash	B (Moderate)	Removal	To facilitate development	Swale construction.	N/a
227G	Damson Thicket	C (Low)	Removal	To facilitate development	Within residential parcel.	Presumption that low value group will require removal to facilitate development
228G	Mixed Species Group	C (Low)	Partial Removal	To facilitate development	New paths.	Tree protective fencing required
229G	Group of Ash	C (Low)	Removal	To facilitate development	Swale construction.	N/a
230T	Ash	B (Moderate)	Removal	To facilitate development	Swale construction.	N/a
231T	Common Oak	C (Low)	Removal	To facilitate development	Swale construction.	N/a

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
232T	Ash	B (Moderate)	Removal	To facilitate development	Swale construction.	N/a
233G	Mixed Species Group	C (Low)	Removal	To facilitate development	Swale construction.	N/a
234G	Mixed Species Group	B (Moderate)	Removal	To facilitate development	Within residential parcel.	Presumption that group will require removal to facilitate development
235G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within residential parcel.	Presumption that group will require removal to facilitate development
236T	Ash	A (High)	None	N/a	Tree protective fencing required.	N/a
237G	Mixed Species Group	C (Low)	Partial Removal	To facilitate development	Tree protective fencing required.	N/a
238T	Common Oak	A (High)	None	N/a	Within Open space	Tree protective fencing required.

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
239T	Common Oak	B (Moderate)	Low	Direct disturbance to roots	Minor ingress within root protection area of proposed path.	Tree protective fencing required.
240T	Ash	B (Moderate)	None	N/a	Within Open space	Tree protective fencing required.
241T	Common Oak	A (High)	None	N/a	Within Open space	Tree protective fencing required.
242T	Ash	B (Moderate)	None	N/a	Within Open space	Tree protective fencing required.
243T	Ash	C (Low)	None	N/a	Within Open space	Tree protective fencing required.
244T	Common Oak	B (Moderate)	None	N/a	Within Open space	Tree protective fencing required.
245T	Sycamore	B (Moderate)	None	N/a	Within Open space	Tree protective fencing required.

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
246G	Mixed Species Group	B (Moderate)	None	N/a	Within Open space	Tree protective fencing required.
247G	Mixed Species Group	C (Low)	None	N/a	Within Open space	Tree protective fencing required.
248G	Mixed Species Group	C (Low)	None	N/a	Within Open space	Tree protective fencing required.
249G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within residential area	Presumption that group will require removal to facilitate development
250G	Mixed Species Group	C (Low)	None	N/a	Outside development area	N/a
251G	Mixed Species Group	C (Low)	None	N/a	Outside development area.	N/a
252G	Mixed Species Group	C (Low)	Removal	To facilitate development	Residential development.	N/a

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
253T	White Poplar	C (Low)	Removal	To facilitate development	Residential development.	N/a
254T	Crack Willow	C (Low)	Removal	To facilitate development	Adjacent bridle way.	N/a
255G	Mixed Species Group	B (Moderate)	None	To facilitate development	Tree protective fencing required.	N/a
256G	Group of Willow	C (Low)	None	To facilitate development	Tree protective fencing required.	N/a
257W	Woodland Area	B (Moderate)	Partial Removal	To facilitate development	Access path.	Tree protective fencing required.
258G	Group of Crack Poplar	C (Low)	Removal	To facilitate development	Residential development.	N/a
259T	Scots Pine	B (Moderate)	Removal	To facilitate development	Swale.	N/a

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
260T	Goat Willow	C (Low)	Low	Direct disturbance to roots	In open space.	Ingress within root protection are due to swale.
261T	Common Oak	A (High)	None	N/a	Within Open space	Tree protective fencing required.
262T	Scots Pine	C (Low)	Low	Direct disturbance to roots	In open space.	Ingress within root protection are due to swale.
263T	Silver Birch	B (Moderate)	None	N/a	Within Open space	Tree protective fencing required.
264T	Silver Birch	B (Moderate)	None	N/a	Within Open space	Tree protective fencing required.
265G	Mixed Species Group	C (Low)	Removal	To facilitate development	Highway/bridle-path and residential development.	N/a
266G	Mixed Species Group	C (Low)	Removal	To facilitate development	Swale/path.	N/a

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
267G	Mixed Species Group	B (Moderate)	None	N/a	Within Open space.	Tree protective fencing required.
268G	Mixed Species Group	B (Moderate)	Removal	To facilitate development	Sewer/residential area.	N/a
269T	Ash	B (Moderate)	Removal	To facilitate development	Within open space/residential area.	Removal due to need to regrade ground levels for adjacent residential development.
270G	Silver Birch, Hazel and Scots Pine.	B (Moderate)	Removal	To facilitate development	Within open space/residential area.	Removal due to need to regrade ground levels for adjacent residential development.
271T	Ash	B (Moderate)	Removal	To facilitate development	Within open space/residential area.	Removal due to need to regrade ground levels for adjacent residential development.
272T	Ash	B (Moderate)	Removal	To facilitate development	Residential development.	N/a
273G	Mixed Species Group	C (Low)	Removal	To facilitate development	Residential development.	N/a

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
274G	Group of Sycamore	C (Low)	Removal	To facilitate development	Residential development.	N/a
275G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within open space/residential parcel.	Removal due to need to regrade ground levels for adjacent residential development.
276T	Common Oak	B (Moderate)	Low	Direct disturbance to roots	Proposed bridleway may pass within the root protection area of the path. Possible impacts may be mitigated using non-dig path construction.	Tree protective fencing required.
277G	3x Ash	B (Moderate)	Partial Removal	To facilitate development	Possible loss of tree to facilitate bridleway.	Tree protective fencing required.
278G	Mixed Species Group	C (Low)	Removal	To facilitate development	Residential area.	N/a
279G	Mixed Species Group	B (Moderate)	Removal	To facilitate development	Residential area.	N/a
280G	Mixed Species Group	B (Moderate)	Removal	To facilitate development	Sewer placement.	N/a

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
281G	Mixed Species Group	C (Low)	Removal	To facilitate development	Open space and residential parcel.	Presumption that group will require removal to facilitate development.
282T	Common Oak	B (Moderate)	Removal	To facilitate development	Within local centre.	Presumption that tree will require removal to facilitate development.
283W	Woodland Area	B (Moderate)	None	N/a	Outside development area	Tree protective fencing required.
284T	Common Oak	B (Moderate)	Removal	To facilitate development	Within open space area	Tree would require removal for ground works and drainage construction within existing pond.
285T	Alder	B (Moderate)	Removal	To facilitate development	Within open space area	Tree would require removal for ground works and drainage construction within existing pond.
286T	Ash	C (Low)	Removal	To facilitate development	Within open space area	Tree would require removal for ground works and drainage construction within existing pond.

Former Leyland Test Track (Revision E)

Ref No.	Species	Value	Impact	Impact Cause	Management Options / Comments	Other
287G	Mixed Species Group	B (Moderate)	Removal	To facilitate development	Within open space area	Group would require removal for ground works and drainage construction within existing pond.
288G	Mixed Species Group	C (Low)	Removal	To facilitate development	Within open space area	Group would require removal for ground works and drainage construction within existing pond.

4.0 General Issues

4.1 Installation of underground services

At the time of considering the layout design, limited was available relating to the proposed location of underground services. By default no services shall be placed within the construction exclusion zones of trees. While it is possible in some cases that underground services may be placed within Root Protection Areas, this shall be undertaken under arboricultural supervision (at least initially) and may require a written methodology to be approved by the local planning authority. Where specialist installation methods are necessary (such as pipe jacking) supplementary method statements must be provided. The proposed location of underground infrastructure must be made available to the local planning authority prior to installation.

4.2 Storage of materials, contractor parking and site logistics

Logistically the site has adequate space for the placement of site huts and material storage. By default all compounds and storage areas are to be outside root protection areas.

4.3 Level changes on site

No excavation or raising of ground levels are to occur within the construction exclusion zones within the site demarked by tree protection barrier fencing. Within the Tree Protection Plans. Use of retaining structures may be required if a ground level differential is required between the developed section of the site the tree protection areas. Such retaining structures may, for example, comprise Gabions, or treated wooden posts.

5.0 Arboricultural Method Statement

- 5.1 The Arboricultural Method Statement (AMS) specifies all measures to be undertaken to ensure the ongoing health and viability of trees to be retained within the proposed development.
- 5.2 This AMS is in compliance with British Standard 5837: 2012. **Accompanying this document are six plans that shows the position of protective fencing and any additional special measures that are required for the detailed development proposals. These plans are referred to as the Tree Protection Plans.**
- 5.3 The AMS must be considered a 'working document'. It must be made available to the developer, site manager, and LPA. A copy of this document and the Tree Protection Plan must be kept on the development site at all times. All site operatives must be briefed on the main contents of this document.
- 5.4 It is the Site/Project Manager's responsibility to ensure that the detail of this AMS and the TPP and any agreed amendments are known and understood by all site personnel. A copy of this AMS and the TPP will be available for reference on site by the Project and Site Managers, and will form the basis of the management of all works relating to the trees on the site following commencement of the project. The Site Manager shall induct all personnel who could have an impact on trees on the content of this document.

5.5 Tree Works –General Issues

- 5.5.1 All tree works (tree felling and pruning) are to take place prior to any site operations and immediately before the installation of protective fencing.
- 5.5.2 All works to the existing trees are to be carried out by a fully qualified tree surgeon and in accordance with BS 3998 (2010) *Recommendations for Tree Work*.
- 5.5.3 The necessary tree surgery works should be carried out **before** any construction work starts and immediately before erection of protective fencing. Any works will include any trees that require removal in order to facilitate construction and access. No tree works must be carried out unless permission is provided by the local planning authority. Tree works to any protected trees (trees within a Conservation Area or subject to a Tree Preservation Order) that do not require works to directly enable the development to proceed will require a notification/application to be made to the Local Planning Authority. Any tree works required in order to directly facilitate the development to proceed (such as tree felling) must not proceed unless full planning consent and written consent is given by the local planning authority.
- 5.5.4 Wildlife issues and timing of operations. The following must be observed:
- Bats. Under current legislation it is an offence to 'intentionally or recklessly disturb a bat' or 'damage, destroy or block access to the resting place of any bat'. For further details consultation must be made with the Statutory Nature Conservancy Organisation (Natural England, 0300 060 1842 www.naturalengland.org.uk). Where relevant any current ecological surveys for the site will take precedence in this matter.
- 5.5.5 Birds. It is an offence to kill, injure or take any wild bird; or take, damage or destroy the nest of any wild bird while it is in use or being built. Therefore work likely to disturb nesting birds should be avoided from late March to August.

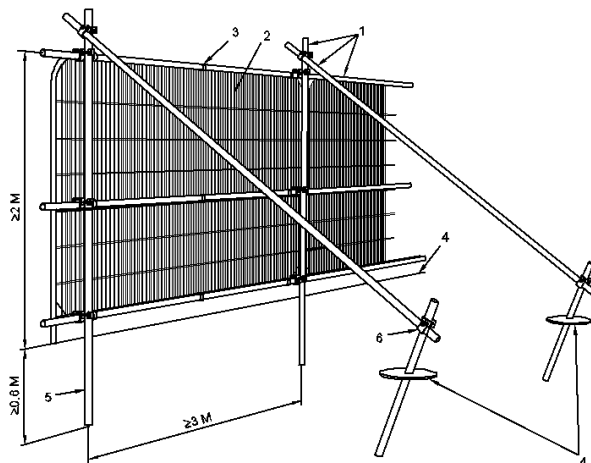
5.6 Tree Protective Barrier Fencing

- 5.6.1 Protective barriers must be erected prior to any site operations. The protective barriers are essential to prevent root severance or compaction of the soil in the Root Protection Areas, and so give the best chance of continued good health of the retained trees.
- 5.6.2 Tree protective barriers are to comprise a vertical and horizontal scaffold framework which is braced to withstand impacts, and not easily moved or relocated by site operatives (to prevent opportunistic moving of the barrier fences).
- 5.6.3 The vertical tubes should be spaced at intervals of no more than 3.5m and driven securely into the ground. Onto this framework welded mesh panels should be securely fixed (such as Heras). The fencing is to be placed accurately as shown within the Tree Protection Plans. A scale copy of the tree protection plan shall be referenced and scale measurements taken to indicate the necessary fencing positions.
- 5.6.4 The accurate placement of fencing, as per the Tree Protection Plans is key in ensuring tree protection; demolition/removal of existing structures will take place as well as construction of new structures such as roads and paths) close to, or partially within tree protection areas. The position of the protective fencing is designed to allow its retention throughout the development process without requiring removal.
- 5.6.5 It is recommended that the accurate placement of fencing is achieved by taking coordinates of fencing positions and pegging the locations of posts.

BS 5837 (2012) Tree Protection Fencing

NOTES

- | | | |
|------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|
| 1. STANDARD SCAFFOLD POLES. | 3. PANELS SECURED TO UPRIGHTS AND CROSS-MEMBERS WITH WIRE TIES. | 5. UPRIGHTS DRIVEN INTO THE GROUND UNTIL SECURE (MINIMUM DEPTH 0.6 M). |
| 2. HEAVY GAUGE 2 M TALL GALVANIZED TUBE AND WELDED MESH INFILL PANELS. | 4. GROUND LEVEL. | 6. STANDARD SCAFFOLD CLAMPS. |



Care must be taken when locating vertical poles to avoid underground services and, in the case of bracing poles, also to avoid contact with structural roots. If the presence of underground services prevents the use of driven poles, an alternative specification should be prepared; such alternatives could include the attachment of the panels to a free standing scaffold support framework.

Where fencing is required adjacent the site boundaries it is acceptable to use Hoarding to double as protective fencing but only where the exact location of the protective fencing is adhered to (as per the Tree Protection Plan) and where it is hand installed only.

5.7 General Requirements

- 5.7.1 Developers must enforce the methods of protection identified within the statement. All contractors must also agree to them. Any failure to comply with them must be dealt with by the developer. Any damage that may occur to trees due to failure to observe the method statement must be reported to the Local Planning Authority and arboricultural advice must be sought.
- 5.7.2 No pruning, lopping, felling or severance of roots is to take place without prior consent of the local authority or unless in compliance with specifications included within the Method Statement.
- 5.7.3 **The ground levels within the protected areas, be they fenced or special working areas, must neither be raised nor excavated unless specifically in compliance with requirements within this method statement.**
- 5.7.4 No ropes, cables, services, or notice boards shall be fixed to existing trees.
- 5.7.5 Fires should not be permitted, or else not lit where flames could extend to within 10m of the foliage, branches or trunk of any trees (it should be noted that local environmental health authorities may have specific restrictions on fires),
- 5.7.6 Should temporary access within the Root Protection Area be required that is not included within the method statement, an agreement, in advance, with the consultant and the LPA must be made. The fence may need to be re-aligned and the ground surface protected. For vehicular access this protection will need to be specifically detailed and agreed.
- 5.7.7 Care must be taken in regards to tall or wide loads, or use of plant with booms, jibs and counterweights. Where machinery may be required to operate in the vicinity of trees a banksman must ensure that no direct physical damage is caused to trees. It must be checked that any materials or vehicles entering the site are able to do so without causing damage to adjacent trees.
- 5.7.8 Any material that will contaminate soil (e.g. concrete mixings, and vehicle washings) must not be discharged within 10m of any Root Protection Area. In addition it is essential that allowance be made for the slope of the ground so that damaging materials cannot run towards trees, or Root Protection Areas. If diesel and fuel containers are used or stored on site they must be kept within a plastic container bund to prevent any ground contamination and spill kits must be kept available to remediate any spillage.
- 5.7.9 Where trenching may be required for the placing of underground services all works must adhere to ***Volume 4: NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees (NJUG4)***. National Joint Utilities Group, 2007. This document is freely available online (www.njug.org.uk/publications/).

5.8 Arboricultural monitoring

- (i) The arboricultural consultant (or local authority Tree Officer) shall be consulted whenever an unexpected issue occurs that involves any retained tree on site including access within the Protection Area.



Mike Gregory (Arboricultural Consultant) 07515827944.



- (ii) No amendments shall be made to the methods detailed in this Arboricultural Method Statement without the agreement of the consultant or local planning authority Tree Officer.
- (ii) If the site agent is at all unclear about exact compliance with any of the above requirements, or if requested by any other party, then a pre-start meeting shall be arranged with the architect, site agent, local authority tree officer and arboricultural consultant in attendance as necessary.




5.9 Health and Safety Issues

All operations must be carried out with full regard to Health and Safety requirements. Due to the diverse nature of recommendations included (e.g. tree surgery works, construction etc) it is necessary that supervisors of those undertaking recommended operations undertake risk assessments prior to starting the relevant works. It should be the Site Managers/developers responsibility to ensure that risk assessments are submitted prior to undertaking relevant works.

6.0 Method Statement Schedule

Phase	Requirements	Method																																																																																																																																				
<p>1</p> <p>Preparation for the removal of tree and woodlands groups</p>	<p>Layout of the new roundabouts, access roads and new pathways to be marked out on site.</p>	<p>The locations of roundabouts, access roads and access paths within the Phase 1 development are to be marked out where groups and woodlands areas require partial removal.</p> <p>The project arborist is to identify the necessary extent of tree removal based from the marked layout and clearly spray paint all trees that require removal to aid in the removal of trees.</p> <p>Where trees are situated close to the edge of newly exposed woodland areas and groups, trees in a poor condition or over slender trunks may also require removal.</p>																																																																																																																																				
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170T	Alder	284T	Common Oak																																																																																																							
<p>3</p> <p>Prior to any demolition/ construction works on site</p>	<p>Erection of protective fencing:</p> <p>To retain throughout the duration of the development:</p> 	<p>Protective fencing is to be erected in accordance with 5.6 of AIA/MS report.</p> <p>The fencing must comply with the positions shown in the Tree Protection Plan. A scale copy of the Tree Protection Plan must be used as reference and fencing positions measured from the Plan using a scale rule, or preferably co-ordinates taken from the CAD version of the Tree Protection Plan to allow the accurate locations of scaffold posts to be determined via GPS system (and pegged accordingly)</p> <p>No works, no storage of materials, no access, or any ground disturbance is to take place within the Tree Protection Barrier Fencing other than works specified within the Arboricultural Method Statement. Fenced areas are to be treated as Construction Exclusion Zones.</p> <p>Warning signs to be placed on all protective fencing. For large sections of fencing the signs must be placed at 20m intervals.</p> <p>Signs must be laminated and securely attached at all corners. Two signs are to be placed side by side; copies of which are attached within Appendix A.</p>																																																																																																								

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Phase	Requirements	Method
<p>4 Verifying quality of protective barriers</p>	<p>Verify that the location and quality of tree protection barriers is adequate prior to onset of main site works.</p>	<p>Site visit with Arboricultural Consultant and Site Manager.</p> <p>Tree Officer to be pre-informed of visit.</p> <p>In order for set works to proceed the pro-forma in Appendix B. of the AIA/AMS report is to be completed and passed on to the local planning authority:</p> <p>If the protective barriers are not adequately, work is not to proceed until rectified.</p> <p>NOTE: IT IS THE RESPONSIBILITY OF THE DEVELOPER TO INFORM THE PROJECT ARBORICULTURALIST</p>
<p>5 Start of works</p>	<p>Maintain protective fencing</p>	<p>The tree protective barrier fencing is to remain in situ during all demolition and construction works.</p>
<p>6 Completion of main construction and undertaking of landscaping</p>	<p>Landscaping and Dismantling of tree barrier protective fencing.</p>	<p>It is essential that ground levels within the root protection areas are not altered, either by raising or lowering soil levels; even at the landscaping stage.</p> <p>Landscaping operations must be undertaken in a manner that will not impact trees.</p> <p>Landscaping within the root protection area of trees must be undertaken in the following manner:</p> <ol style="list-style-type: none"> 1. Any existing ground flora (grass/weeds/scrub) is to be sprayed with a systemic herbicide and left to die-off. 2. Dead flora is to be strimmed as hard as possible with a brush cutter or similar. The bulk of the strimmed material is to be removed by raking. 3. A good quality organic topsoil layer may be placed down. Small depressions may be filled (and lightly compacted underfoot). Placed topsoil soil layers must not exceed 100mm depth. 4. No plant machinery operating within the root protection areas to exceed 3 tonne gross weight and must only operate from propriety ground protection boards such as DuraMatt Access Mats (see Appendix C). 5. Turf and other planting to proceed thereafter.

APPENDIX A - SIGNS TO ATTACH TO PROTECTIVE FENCING



APPENDIX B – Site Inspection pro-forma

**SITE INSPECTION - ARBORICULTURAL METHOD STATEMENT
(Ref: MG.5035.AIA&AMS.REV E.AUG18)**

Site Address : Former Leyland Test Track, Leyland

Name of Arboricultural Inspector:

Date of Inspection:

The purpose of this site inspection is to confirm with requirements within the above referenced Arboricultural Method Statement.

The site is to be visited and the placement of tree protection barrier fencing checked for compliance with specifications within the method statement.

Further works on the site shall not proceed until the tree protective fencing is installed in compliance with the method statement and in submitting this document to the Local Planning Authority the inspector is verifying that the necessary specifications have been met.

Notes (continue on separate attachments as necessary):

Photographs: (attach below):

APPENDIX C – GROUND PROTECTION BOARDS

(to be used for light plant access when undertaking temporary operations within the root protection areas of trees- such as fencing and landscaping)

DuraMatt Single Sided Access Mat - 2400mm x 600mm x 10mm - 17kg

Product Code: DURA-240060017SS



MultiMatts are the market leading provider of temporary access and ground protection solutions. Temporary Access and Ground Protection Mats are now an essential requirement for the construction, civil engineering and groundwork industries, although they're also used extensively within the festival and outdoor event sectors.

Our DuraMatt - Light/Medium Duty Access Mat is manufactured from 100% recycled Low Density Polyethylene (LDPE) and weigh just 17kg. DuraMatt is ideal for both short and long term projects and can be used in a variety of applications.

DuraMatt is capable of taking weights of 15-20 tonnes* depending on the ground conditions, they've also been designed with a connection hole in each corner should the mats need to be connected together.

DuraMatt has a unique diamond pattern "non-slip" surface on one side, the other side has been left smooth for working on hard standing areas and sensitive grass, it also allows contractors to use the mat as a spoil board for construction materials. It's flexible nature allows the mats to follow the contours of the ground to deliver highly effective access over undulating or sloping terrain.

Standard colour option is Grey – Please contact us for other colours or customisation.

Key Applications

- Ground Work Spoil Boards
- Temporary Roadways and Car Parks
- Pedestrian Walkways
- Heritage sites; Eco-Sensitive areas
- Sports and Leisure Events
- Golf Course and Sports Field Maintenance
- Ground Protection
- Emergency Access Routes
- Utilities
- Infrastructure Maintenance

Key Features and Benefits

- 2.4m x 0.6m x 10mm - Weight 17kg
- Maximum Weight loading approx. 15-20 tonnes*
- Unique diamond pattern "non-slip" surface for optimal grip
- Avoids health and safety issues
- Avoids property, heritage and environmental damage and reinstatement
- Avoids vehicles becoming bogged down
- Low transportation and handling costs
- Various connection options for different ground conditions and equipment
- Premium 100% recycled (LD) polyethylene which is 100% recyclable