
DOCUMENT HISTORY

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1. INTRODUCTION

1.1 Instructions

- 1.1.1 We were instructed to provide an arboricultural method statement for the management and protection of trees during the construction of the Great Wolf Lodge at Chesterton, Bicester.
- 1.1.2 This document will detail the trees for removal and the methods of protection for retained trees on or adjacent to the site in line with the recommendations of BS5837.
- 1.1.3 This document is accompanied by North and South Tree Removal and Protection Plans based on the proposed planning drawing. (Drawing ref: BMD.19.010.DRG.903.1 and BMD.19.010.DRG.903.2 provided with this report, see also Appendix A).

1.2 Source documents

- 1.2.1 The drawings that have been used to inform this assessment are:
- Planning drawings: BMD.19.010.DR.P101-104
- 1.2.2 Protective measures have been developed and specified in accordance with the recommendations of BS5837: 2012 'Trees in Relation to design, demolition and construction', including relevant terms, definitions and Root Protection Area calculations.
- 1.2.3 Note: This assessment is layout-specific therefore cannot be generalised to other proposed designs.

2. THE DEVELOPMENT

2.1 Development details

2.1.1 The consented proposal is for a leisure facility.

3. SUPERVISION AND MONITORING

- 3.1.1 It is important that the tree protection measures are understood and adopted at all levels from client to project manager and any sub-contractors in order that the measures can be successful.
- 3.1.2 The Project Arboriculturalist will be retained during the period of construction to:
- inspect temporary barriers prior to ecologist's survey
 - mark trees for removal
 - inspect barriers prior to the commencement of construction
 - meet with the treework contractor prior to discuss the treeworks needed
 - meet with the site manager, construction and groundworks contractors before works commence to discuss the implementation of the tree protection measures; the location of the site compound and facilities (if not already known) and any phased construction that may affect the protection of trees
 - provide a watching brief
 - maintain a record of inspections, findings and recommendations, and provide a copy to the Local Authority Tree Officer for their records (see Appendix C).
- 3.1.3 Communication between the Client, Main Contractor (and their sub-contractors), the Project Manager and the Arboriculturalist are of high importance.
- 3.1.4 The Site Manager will monitor the physical and managed protective tree measures continually and bring barriers back up to specification when required.
- 3.1.5 The Site Manager will report any issues that conflict with the Arboricultural Method Statement to the Project Arboriculturalist and the Local Authority Tree Officer, who will decide on the best course of action.

Project Arboriculturalist Details: Andrew Belson 01572 823637

Local Authority Tree Officer: 01295 221708

4. ARBORICULTURAL WORKS

4.1 Standards

- 4.1.1 Tree work is skilled and potentially dangerous work, which must be carried out by trained and certificated staff working to BS3998: 2010 and working in accordance with the various Regulations within the Health and Safety at Work Act 1974
- 4.1.2 Contractors must have Public Liability Insurance (preferably £5 million) and Employer's Liability Insurance (preferably £10 million)
- 4.1.3 Machinery and equipment must be maintained, inspected and operated in accordance with the various Regulations within the Health and Safety at Work Act 1974
- 4.1.4 The British Standard 5837: 2012 'Trees in relation to design, demolition and construction' gives detailed guidance on the implications of constructing near to trees.

4.2 Prior to works

- 4.2.1 Tree work must be the first operation, before any other activity on site involving plant, machinery or materials.
- 4.2.2 Before the commencement of any treeworks, the Project Ecologist will carry out the necessary inspections for bats and nesting birds.
- 4.2.3 The start date for treework will be agreed following the advice of the Project Ecologist.
- 4.2.4 The Contractor will be responsible for producing their own Method Statement for the works that will include Risk Assessments, staff profiles and certification, machinery and equipment inspection records and certificates.
- 4.2.5 Disposal of timber, brash and other arising to be agreed with the Client.
- 4.2.6 Stump removal may be required and will be agreed with the Client, including the disposal of arisings as appropriate.

4.3 Work required

- 4.3.1 Remove the following trees (as denoted by the dashed red lines with red crosshatch on drawing BMD.19.010.DRG.903.1 and BMD.19.010.DRG.903.2 .)

T10	T77	G156
T17	T79	G157
T18	T80	G158
T20	T81	G159
T22	T87	G164
T23	T88	G165
T24	T89	G166
T25	T91	G168 (part)
T26	T92	G169
T27	T94	G172
T28	T96	G180
T31	T97	G183 (part)
T32	T98	G185 (part)
T33	T99	G186 (part)
T35	T100	G187 (part)
T36	T104	W188
T43	T105	G190 (part)
T44	T109	G191
T47	T113	G193
T50	T120	G197
T51	T121	G199
T52	G124	G201 (part)
T53	G125	G202 (part)
T54	G126	G205 (part)
T55	G128	G206 (part)
T59	G129	G207 (part)
T60	G130	G209 (part)
T62	G131	G212 (part)
T63	G132	G214
T67	H143	G215
T69	H145	G216
T70	G150	G217
T72	G151	G218
T73	G154	G219
T74	G155	

(please refer to WSP AIA document 70058541-009 for tree numbers)

- 4.3.2 Remove dead wood greater than 25mm □ from any trees on or off site, where they overhang the site
- 4.3.3 Generally lift the crowns of trees within the site to 2.5m
- 4.3.4 Reduce the height of the first row of trees on the southern edge of Group 206 by 5m

5. TREE PROTECTION

5.1 Barriers

- 5.1.1 Once the treeworks are complete, a robust, immovable barrier will be erected where shown by the broad blue lines on the Tree Removal and Protection Plan (Ref: BMD.19.010.DRG.903.1 and BMD.19.010.DRG.903.2 , Appendix A).
- 5.1.2 Weather-proof notices stating: 'PROTECTED AREA – DO NOT ENTER' to be erected on the fencing (example in Appendix B) not less than 5m apart.
- 5.1.3 The site manager will assess the integrity of the protective barrier protection measures continually. Any shortcomings must be rectified to the original specifications immediately.
- 5.1.4 Barriers will remain in place until development is concluded. The removal of the barriers will be by prior agreement with the Project Arboriculturalist.
- 5.1.5 The Site Manager will keep a copy of the Tree Protection Plan on site for reference during construction and for site induction where staff or contractors' work may implicate working near trees so they understand the purpose of the measures.

6. CONSTRUCTION PHASE

6.1 General notes

- 6.1.1 Once the barriers have been checked and development will then continue in accordance with the Approved Plans.
- 6.1.2 No fires will be lit on site where flames can reach within 5m of the crown of a tree taking the size of the fire, wind speed and direction into account
- 6.1.3 No storage or discharge of materials within 5 metres of a tree bole.
- 6.1.4 No mixing of cement or dispensing of fuel or chemicals within 15 metres of a tree bole.
- 6.1.5 No stripping of topsoil, excavation or changing of levels to occur within the RPA.
- 6.1.6 Any damage that occurs to the trees during construction will be rectified to BS3998: 2010.
- 6.1.7 Trees will not be used as anchor points for winching or for supporting wires/cables.

6.2 Excavation in the Vicinity of Protective Barriers

- 6.2.1 Excavation within 2m of protective barriers will be carried out under an arboricultural watching brief.
- 6.2.2 Any roots greater than 25mm diameter will be retained where possible or pruned back to a suitable union by the Project Arboriculturalist using a sharp saw or bypass secateurs.

7. POST CONSTRUCTION PHASE

7.1 General notes

- 7.1.1 Once all the construction and hard landscaping works are completed, the protective barriers will be removed and the landscaping works will be completed.
- 7.1.2 Soil cultivation within the previously protected zones (i.e. within the Root Protection Areas) will be carried out by hand only. No machine cultivation will take place within these zones whatsoever.
- 7.1.3 Planting within Root Protection Areas will be carried out by hand using hand tools only.
- 7.1.4 Retained trees will be re-inspected post-development by the Project Arboriculturalist and any works arising carried out within the time limits specified.

8. APPENDICES

A. APPENDIX A Tree Protection Plan

- There are two Tree Protection Plans

B. APPENDIX B Poster to be fixed to barriers

PROTECTED AREA

DO NOT ENTER
(WITHOUT PERMISSION)

This barrier is designed to protect
these trees.

PLEASE REPORT ANY BREACH IN
THE BARRIER TO THE SITE
MANAGER

C. APPENDIX C INSPECTION RECORD

Key Event	Arboricultural Supervision Required	Timing	Completed (tick when done)	Date	Site Manager's Signature
Treeworks	Yes. Tree marking and discussion with contractors	Before construction			
Barriers for ecological survey work	Yes. Inspect barriers	Before construction			
Barriers for development operations	Yes. Inspect barriers	Before construction			
Excavation near protected trees	Yes. Watching brief	During construction.			
Excavation near protected trees	Yes. Root pruning if required	During construction.			
Check barriers and signage	No. Site responsibility	During construction			
Remove barriers	Yes. Ensure all works that could affect trees are complete.	Post construction			

Post-completion all arboricultural works can be signed off below:

Arboricultural Consultant:
 Signature:

Date:

Site Manager:
 Signature:

Date: