

I A N K E E N
L I M I T E D



ARBORICULTURAL METHOD STATEMENT

For development at

16 Millfield Lane
London
N6 6JD

Client

Cold As Ice Limited
5-9 Main Street
Gibraltar

1 Statement of purpose

- 1.1 The purpose of this method statement is to demonstrate how works will be undertaken on the site to avoid unacceptable arboricultural impact and provide an adequate level of protection for those trees that are to be retained.
- 1.2 This method statement addresses only the existing trees that are present and those to be removed to enable the development. It has been prepared with reference to *BS5837:2012 Trees in relation to construction – Recommendations design, demolition and construction*
- 1.3 This method statement considers the systems of work in relation to the health and safety of retained trees.

2 Related documents and drawings

- 2.1 Drawings and reports upon which this assessment has been made are listed within Table 1 below.

Table 1 – Drawings and reports relied upon

| | |
|---|--|
| Ian Keen Limited – Tree Protection Plan | 9452-KC-XX-YTREE-TPP01RevA |
| Clive Fowler Associates - Tree report | Dated 29 th January 2016 |
| Topographical survey drawing | N/A |
| Proposed scheme drawing(s) referred to | 24818/16MR/P/01 Rev P1 CD508T/SK/07 Rev A 24818/16MR/P/02 Rev P1 24818/16MR/P/03 Rev P1 |

- 2.2 Relevant planning conditions, extracts from the consent notices for reference:

Conditions 4, 5 and 6 of 2015/5899/P

- 4 *Prior to the commencement of the development, details of all proposed Access Facilitation Pruning shall be submitted to and approved in writing by the Local Planning Authority. The approved tree pruning works shall be carried out in accordance with BS399:2010.*
- 5 *Details shall be submitted to and approved by the Council before any works commence on site to demonstrate how all trees on the site, or parts of trees growing from adjoining sites, unless shown on the permitted drawings as being removed, shall be retained and protected during construction work. Such details shall follow guidelines and standards set out in BS5837:2012 and should include:*
- *a tree protection plan (TPP) showing the location and nature of tree protection measures*
 - *appropriate working processes in the vicinity of trees*
 - *details of an auditable system of site monitoring*
 - *details of the design of building foundations*
 - *details, including dimensions and levels, of service trenches and other excavations on site in so far as these items may affect trees on or adjoining the site. The development thereafter shall be implemented in strict accordance with the approved details.*

6 *No development shall take place until full details of hard and soft landscaping and means of enclosure of all un-built, open areas have been submitted to and approved by the Council.*

Such details shall include:

- *Scaled plans showing all existing and proposed vegetation and landscape features*
- *A schedule detailing species, sizes, and planting densities*
- *Location, type and materials to be used for hard landscaping and boundary treatments*
- *Specifications for replacement trees, including at least two specimens with a minimum size of Advanced Heavy Standard with a girth of 16-18cm, taking into account the standards set out in BS8545:2014.*
- *Details of any proposed earthworks including grading, mounding and other changes in ground levels.*
- *A management plan including an initial scheme of maintenance*

The relevant part of the works shall not be carried out otherwise than in accordance with the details thus approved.

3 Arboricultural issues

- 3.1 Detail of the trees and their protection are discussed and detailed in the documents, and shown on the drawings listed in Table 1 and should be read in conjunction with this method statement.
- 3.2 The scheme is relatively simple requiring the new vehicular entrance, changes to driveway outline and restoration of previous driveway to soft landscape. Some tree removal is required to achieve the scheme.

4 Facilitation tree works

- 4.1 No tree pruning is required to achieve the proposals.
- 4.2 Tree removals are required to achieve the proposals.
- 4.2 Trees to be removed for the development (numbers 1, 4, 5 and 6) are shown on the Tree Protection Plan listed in Table 1 at C2 and these cover the extent of tree removal for the project.

5 General site care

- 5.1 To ensure that the trees to be retained are afforded an adequate degree of protection during the works, the following general precautions will be observed:
- 5.1.1 No fires will be lit on site
- 5.1.2 No access will be permitted within the areas protected by the barriers, unless and only where otherwise approved herein. Ground levels will not be changed within them and existing vegetation and topsoil will be left undisturbed but may be treated with approved herbicides if eradication is required.

5.1.3 No materials, equipment or debris will be stored within any of the barriered areas and no chemicals, petrol or diesel will be allowed to spill where they may contaminate the root protection area (RPA) of retained trees

5.2 The building compound will be located outside the Construction Exclusion Zone. The construction exclusion zone is that area contained within the line of barriers indicated on the Tree Protection Plan.

6 Sequencing of works

6.1 A logical sequence of events, depending on the details of each construction phase, is to be observed as follows:

Step 1 Pre-start meeting on-start with client, contractor, client's arboriculturalist and Council Tree officer (if they desire to attend).

Step 2 Undertake tree removal to provide space for works.

Step 3 Install tree protection barriers as shown on the Tree Protection Plan (specifications given in Section 7).

Step 4 Remove section of existing boundary fence to provide working space.

Step 5 Excavate to form sub-base for proposed new driveway area. Form sub-base and continue to install final surface as construction programme dictates.

Step 6 Remove area of previous driveway to be restored to soft landscape. Surface and sub-base shall be removed with hand-held tools and equipment only.

Step 7 Remove barriers.

Step 8 Complete soft landscape works.

7 Requirements of the construction process

7.1 Access for construction traffic can initially use the existing entrance point which is retained until such time as the new entrance point is fully functional.

7.2 Contractors' car parking, compounds and temporary facilities can be housed on the existing area of hard surfacing. No trenches shall be installed to service these temporary facilities.

7.3 Phasing of construction work, where it might impact upon trees, is detailed in section 6.

7.4 No building foundations are required to achieve the proposals.

7.5 Excavations and construction work are generally remote from retained trees such that the need for specialist measures for installation were not considered required by the arboricultural consultant that advised the application.

8 Protective barriers and ground protection

- 8.1** Temporary barriers will be erected as indicated on the Tree Protection Plan. The specification for these barriers will be in accordance with the recommendations given in BS5837 section 6.2 and will comprise 2.0m mesh barriers (Heras type panels are a simple, readily available solution) attached to a scaffold framework. Support scaffolds will be attached to the scaffold framework as necessary at an angle of 45 degrees on the side of the trees and anchored by further scaffold poles carefully firmed into the ground. Alternatively, the alternative specification of Heras type panels, fitted with stabiliser struts as per Figure 3 of BS5837, may be used. Clear signs will be attached at 6 metre intervals along the line of barriers stating 'Tree Protection Area – No Access'.
- 8.2** The area protected by the barrier shall be known as the Construction Exclusion Zone.
- 8.3** The barriers shall remain in place until the main construction work is completed. No other construction activity will take place within those areas formerly protected by the barrier (see Section 5).
- 8.4** The site manager shall inspect the protective barriers daily and rectify any defects immediately on discovery. A record of the site manager's actions in regard to arboricultural matters shall be kept for inspection by the arboriculturalist on request.

9 Treatment of existing hard surfaces

- 9.1** There are hard surfaces present within the construction site and these will be removed in the following manner:
- 9.1.1** The uptake of the existing surfacing should be carried out from outside the RPA whenever possible and from within the footprint of the existing surfacing where within the RPA of a tree.
- 9.1.2** The excavation of the material must not extend into the soil underneath the existing surface. Roots are likely to be growing within the existing sub-base hence excavation should be undertaken by hand-held tools and equipment.
- 9.1.3** The rubble must not be stockpiled within the RPA of the tree and must be exported without crossing the RPA (unless it remains surfaced in which case it can be used).
- 9.1.4** Where the old surface is taken up and not replaced, the infill should be of good quality topsoil laid without compaction.

10 Creation of new hard surfacing within root protection areas

10.1 There is no hard surfacing proposed within the root protection area of retained trees.

11 Excavations proximate to root protection areas

11.1 Only localised excavations for fence and gate posts are required proximate to the root protection area. Concrete foundations for the posts will be formed within the localised excavations.

11.2 Electric and communication supply to the gates will be extended from the extant supply (although there is ample room remote from retained trees to accommodate a new supply from the dwelling to the gates). They can be installed in a trench directly to the new gates in a location remote from retained trees.

12 Reinstatement and landscaping within the construction exclusion zone

12.1 Final grading to marry in new levels with existing ground will be achieved by importing topsoil and spreading by hand equipment only. The imported topsoil shall meet the general requirements of BS 3882 and be applied to make up voids left from removing hard surfaces. The newly graded areas will be grass seeded, turfed or planted by hand.

12.2 All tree and shrub planting pits will be dug by hand.

13 Planning, communication and monitoring

13.1 A pre-commencement meeting will take place on site attended by the appointed arboricultural consultant, the tree contractor, the site manager and the local authority arboricultural officer (if available and requires to attend). The purpose of this meeting is to ensure that everyone fully understands the implications of the arboricultural method statement and to agree on finer points of detail prior to any works commencing.

13.2 The appointed arboricultural consultant shall directly monitor the works at the following key stages:

13.2.1 Confirm tree removal and tree pruning required

13.2.2 Confirmation that protective measures are installed correctly

13.2.3 Removal of final layer of sub-base by tree 2.

13.2.4 Removal of protective measures.

13.3 At the completion of each monitoring visit the appointed arboricultural consultant will circulate a short site supervision report to the client, site and the local authority arboricultural officer to confirm that works are progressing satisfactorily.

13.4 Monitoring visits will be undertaken by the arboricultural consultant at their discretion at intervals commensurate with site progress to make sure that all tree protection measures are in place. A record of these visits will be kept and maintained for inspection on site.

- 13.5 Should any problems arise on site, the site manager will immediately inform the appointed arboricultural consultant who will assess the situation and make recommendations accordingly. If any modifications to the method statement are proposed, the arboricultural consultant will immediately advise the local authority arboricultural officer.
- 13.6 The site manager will brief all site personnel on the implications of the arboricultural method statement. A copy of this method statement will be available on site at all times. Copies of progress and monitoring reports will be kept with the method statement so that both are readily available for inspection.
- 13.7 A list of contacts is attached at Appendix 1.

14 **Conclusion**

- 14.1 This method sets out all of the procedures and methods to successfully protect the retained trees on site for the foreseeable works, any further information will be provided within the site supervision process set out above.
- 14.2 If the provisions of this arboricultural method statement are complied with in full, the proposed works will be able to proceed without detrimental impact to retained trees.

APPENDIX 1

List of contacts

List of Contacts

| | | |
|------------------------------|---|------------|
| Site Address: | 16 Millfield Lane London N6 6JD | |
| Site Manager: * | | Tele No: * |
| Builder: | | |
| Address: | | |
| Contact Name: * | | |
| Arboricultural Consultant: | Jago Keen, MSc, Dip.Arb., MArborA, MICFor | |
| Address: | Redlands Farm, Redlands Lane, Ewshot Farnham, Surrey GU10 5AS | |
| Tele No: | 01252 850096 (office) | (mobile) |
| Local Authority Tree Officer | Terry Hylton | |
| Address: | London Borough of Camden 5 Pancras Square London N1C 4AG | |
| Telephone No.: | 020 7974 4444 | |