



**MAPLE ROAD, TANKERSLEY
ARBORICULTURAL METHOD STATEMENT**

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This report is to be read in conjunction with the following:

Drawings (latest revisions):

- 50104-DR-ARB-101 Existing Trees on Site
- 50104-DR-ARB-102 Tree Constraints Plan
- 50104-DR-ARB-104 Tree Removal Plan
- 50104-DR-LAN-105 Detailed Landscape Proposals

Reports (latest revisions):

- Arboricultural Report

1 INTRODUCTION

This Arboricultural Method Statement (AMS) has been prepared to assist the project contractor on behalf of Rula Developments Ltd undertake construction works associated with this development in proximity to existing trees and within the guidelines of BS 5837:2012 Trees in relation to Design, Demolition and Construction. Recommendations. It provides reference to existing documentation that has been prepared to assist with construction in proximity to trees, guidelines whilst working in proximity to trees and contacts for guidance or advice should the contractor be unsure of the correct way to proceed on site.

- 1.1 It describes the methodology for ensuring that existing trees to be retained not only survive but continue to thrive as part of the future amenity value of the site and to ensure that they are safe for users of the site.
- 1.2 The proposed sequence of operations are described, together with materials and methodology to be used for the duration of the construction programme.
- 1.3 The AMS also includes a section of useful telephone numbers and addresses of the site Landscape Architect/Arboriculturalist, local authority tree officer and planning officer should the contractor have any questions during the course of the works.
- 1.4 A copy of the AMS must be permanently available on site for reference throughout the development. All site personnel must be made fully aware of its contents and the implications for work they may be involved in. All elements of the agreed Method Statement must be adhered to in full, failure to do so could result in a failure to accord with the approved planning application, damage to protected trees and enforcement action by the Local Planning Authority (LPA) and prosecution under the Town and Country Planning Act.
- 1.5 Trees are susceptible to many forms of damage during construction, to their crown, stems and roots. Roots are particularly susceptible as the majority are located within the top 150mm of the soils surface and therefore susceptible to many forms of construction activity with resulting compaction, severance and poisoning.

2 SITE DESCRIPTION

- 2.1 The Survey Area is located within Wentworth Industrial Park, and is bounded by a large asphalt car/van parking area for a unit to the north, a commercial warehouse unit to the east, further commercial units to the south off Maple Court, and an area of grassland to the west.
- 2.2 The Survey Area contains three areas of woodland protected by Tree Preservation orders (TPO) referenced as number 15, and tree reference number W2.
- 2.3 The site area and the area of tree protection is highlighted on drawing 50104-DR-LAN-105 (Latest Revision) Detailed Landscape Proposals.

3 INDUCTION TO ARBORICULTURAL METHOD STATEMENT

The Site Manager is responsible for ensuring that all personnel, visitors and sub-contractors are made fully aware of the constraints posed by retained trees on site and the protection measures that have been put in place in line with this AMS to ensure they are protected. This includes having full on-site access to the AMS and associated drawings and schedules. An initial induction should be undertaken between the site manager and Landscape Architect/Arboriculturalist including a tool box talk where necessary for operations in close proximity to the Root Protection Area (RPA) to ensure all constraints and tree protection measures are clearly understood.

4 TREES TO BE RETAINED

- 4.1 The following trees on site are due to be retained and are listed as follows:
 - G2 (Retained in part) Hawthorn, Elder, Birch
 - G5 (Retained in part) Birch
 - T6 Oak
 - T7 Oak
 - T8 Oak
 - T9 Hawthorn
 - T10 Birch
 - W12 (Majority retained) Birch, Oak, Hawthorn, Elder, Cherry
 - G17 4x Oak
 - T18 Oak
 - G19 Oak
 - G20 2x Oak
 - G21 Cherry, Oak, Sycamore, Hawthorn, Holly, Ash, Birch

5 TREES TO BE REMOVED

- 5.1 Before undertaking any work on site, a meeting on site between the Landscape Architect/Arboriculturalist, site manager and Arboricultural contractor should be arranged to review the scope of works and to mark trees identified for removal.
- 5.2 The first operation on the site will be the removal of all trees shown to be removed in Section 5.4 and 5.5.
- 5.3 These works will be undertaken with care in order to avoid damage to any adjacent specimens due to be retained.
- 5.4 The following tree is recommended for removal on Arboricultural grounds:
- T3 Silver Birch
- The following trees are to be removed to accommodate the development:
- T1 Silver Birch
 - G2 (Removed in part) Hawthorn, Elder, Birch
 - T3 Silver Birch
 - G4 Birch & Oak
 - G5 (Retained in part) Birch
 - T11 Oak
 - W12 (Removal of part of woodland edge) Birch, Oak, Hawthorn, Elder, Cherry
 - G13 2x Oak, 1x Ash
 - G14 Silver Birch
 - T15 Silver Birch
 - T16 Oak
 - G22 Cherry, Oak, Sycamore, Hawthorn, Holly, Ash, Birch
 - G23 Goat Willow, Hawthorn, Rose, Holly, Birch
 - G24 2x Goat Willow
- 5.5 No works are to take place without the consent of the LPA and the tree owner.
- 5.6 All arisings to be removed from site and either recycled or taken to an approved tip.

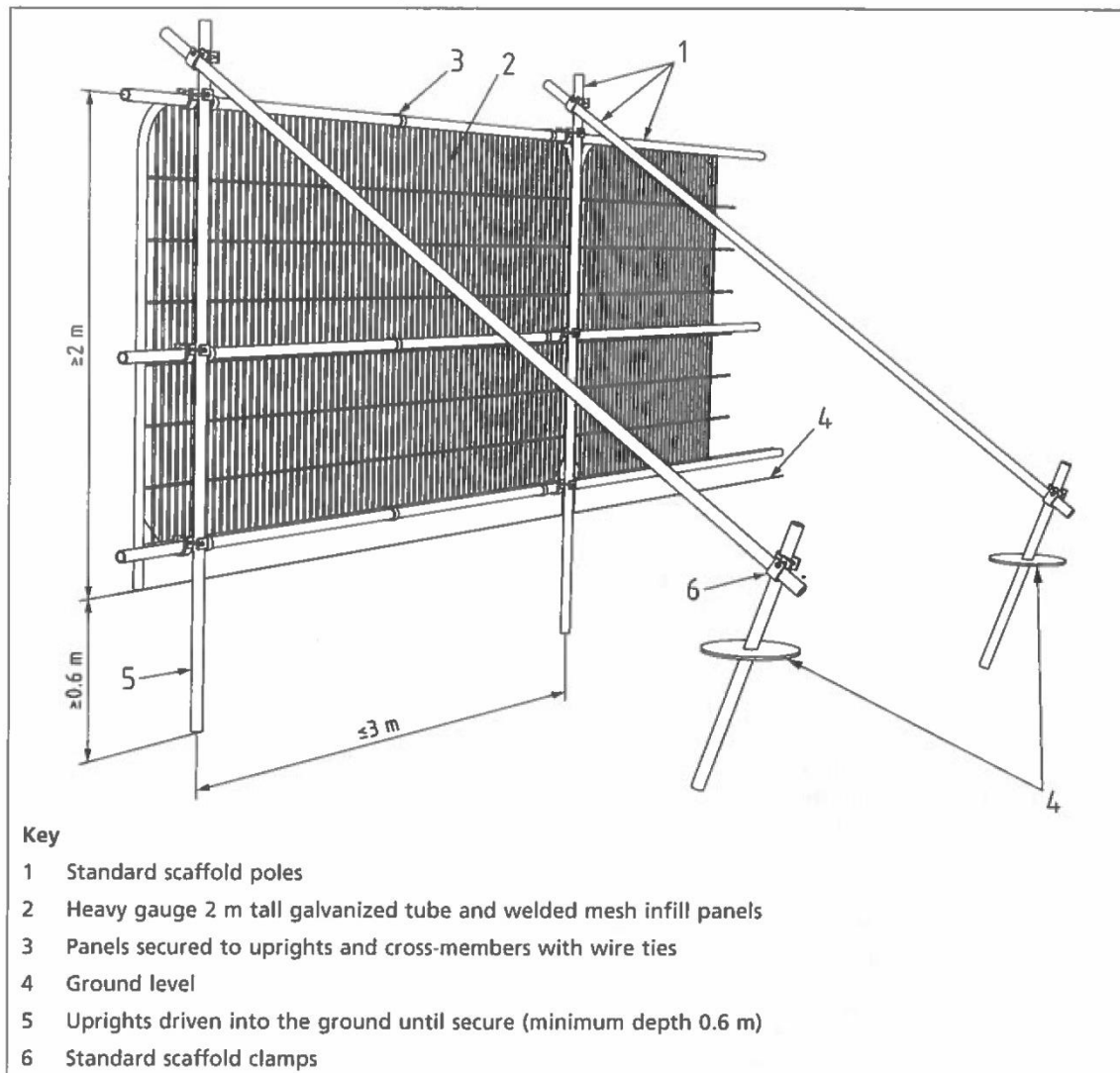
6 REMEDIAL WORK

- 6.1 When all the tree felling work identified in items 5.4 and 5.5 has been completed, the necessary tree surgery work will be carried out. All approved tree works are to be completed by suitably qualified and insured contractors and should take place before any site works begin.
- 6.2 If additional tree works are deemed to be required during the development the advice of the Landscape Architect/Arboriculturist is to be obtained.
- 6.3 No works are to take place without the consent of the LPA and the tree owner.
- 6.4 No tree pruning is to be carried out by site staff.
- 6.5 All tree surgery work must be carried out in line with the principles of BS3998: 2010 Tree Work – Recommendations and be conducted in such a way that no damage is caused to any tree to be retained. This operation will principally involve the general removal of deadwood from the crowns of trees and the removal of the lowest limbs (crown lift) of some trees as identified in the schedule of tree works (and below), to ensure the site can be used as intended and without obstruction.
- 6.6 Tree work is required to the following existing trees:
- W12 (Majority retained) Birch, Oak, Hawthorn, Elder, Cherry
Face up canopy and retained edge of W12 to create a natural line of retained vegetation, left in a safe retention condition adjacent to newly formed earthworks to east.
 - G21 Cherry, Oak, Sycamore, Hawthorn, Holly, Ash, Birch
Face up to line shown on Tree Removal Plan drawing 50104-DR ARB-104.

7 PROTECTIVE FENCING

- 7.1 Prior to machinery entering the site for any site clearance, building, construction or grading purposes, all trees listed to be retained within the development will be fenced off in a continuous line in accordance with British Standard 5837: 2012: clause 6.2 and locations as indicated on drawing 50104-DR-LAN-105 Detailed Landscape Proposals. The location of the protective fencing should be agreed on site with the site manager given the extent of excavation work adjacent to W12 and to a lesser degree G21, to ensure the RPA of those trees capable of being retained is protected as much as possible.
- 7.2 The standard fencing specification is a robust vertical and horizontal scaffold framework with weldmesh panels firmly attached as per BS5837: 2012 section 6.2.2.2 and Figure 2. This specification should be utilised around all retained trees on site.

Figure 1: Default Specification for Protective Barrier



- 7.3 Vertical support poles and bracing poles must be located with care to avoid underground utility services and must be sited to avoid the structural roots of retained trees.
- 7.4 Where the use of driven poles is not possible due to services or unacceptable damage to hard surfacing the use of block trays will be acceptable.
- 7.5 Site notices on fencing will be used in the form of pre-printed laminated waterproof signs A3 in size fixed securely to fencing panels on each enclosure at 9m intervals. The signs will be as per figure 3.

Figure 2: Tree Protection Fencing Signage



- 7.6 Failure to comply with the above requirements could lead to enforcement action, including the issuing of a Stop Notice, until the matter has been remedied. Where damage has occurred to legally protected trees, the owner of the site may be liable for prosecution.
- 7.7 Temporary ground protection: The extent of RPAs is to be marked out on site. Any marking will need to utilise robust materials (such as weatherproof marker paint) which will remain effective for the duration of all stages of the development and this may need to be re applied on an ad hoc basis.
- 7.8 There are currently no circumstances identified which would require the removal of Tree Protection Fencing on site; however, should there be a requirement to do so the below prescribes the process for doing so.
- 7.9 Where access is unavoidable within the RPA of retained trees, tree protection fencing is to be set back following the consent of the site Landscape Architect/Arboriculturist.
- 7.10 Where works are likely to compact the soil then additional ground protection measures will be required and will need to be agreed with the site Landscape Architect/Arboriculturist prior to works being undertaken.
- 7.11 Ground protection must be in place where access is required to previously unsurfaced ground within an RPA. Should vehicular or plant access be required in this area then fit for purpose ground protection must be in place.
- 7.12 As set out in section 6.2.3.3 of BS5837:2012 the following ground protection measures will be appropriate:
- Suitable ground protection for pedestrian access will comprise a single thickness of scaffold boards set on a compressible layer of 100mm of woodchip on a geotextile membrane;
 - Pedestrian operated plant up to two tonnes in weight would require the use of a proprietary, interlinked ground protection system set on a minimum depth of 150mm woodchip on a geotextile membrane;
 - Heavier loads in excess of two tonnes in weight will require ground protection to an engineering specification; and
 - Ground protection shall stay in place until all construction operations in the vicinity are completed and removal is agreed with the site Landscape Architect/Arboriculturist.
- 7.13 Additional precautions outside the exclusion zone should include the following, as these can often be overlooked and cause damage to trees:
- Wide loads;
 - Tall loads; and
 - Plant with booms, jibs and counterweights (including drilling rigs).

- 7.14 Any transit or traverse plant operating in the proximity of existing trees should be conducted under the supervision of a banksman to avoid damage to a trees canopy.
- 7.15 Fires on site should be avoided, where this is not possible fires should be lit well away from existing trees to ensure the foliage and branches are in no way affected by the resultant heat. Windblown heat should be considered alongside the size of the fire to ensure no damage occurs to the foliage and branches.
- 7.16 Any materials/liquids for which the accidental spillage would cause damage to existing trees should be stored and used well away from the outer edge of the RPA.

8 SITE INSPECTION AND MONITORING

- 8.1 After tree felling and remedial work to trees have been completed (and following erection of the protective fencing), the site manager and site Landscape Architect/Arboriculturalist should meet to review the location of the tree protection fencing and to agree any revisions to the proposed Tree Protection Fencing. Those amendments will then be implemented following confirmation in writing, ensuring trees are spatially protected during the works.

9 DEVELOPMENT PHASE

- 9.1 After all the felling pruning and fencing has satisfactorily been completed, the developer can commence the on-site preparation works and construction can begin.
- 9.2 During the development phase the developer's Landscape Architect/Arboriculturalist should visit the site on a regular basis to check the protective fencing and make any recommendations on any maintenance required to it in writing.
- 9.3 The Local Planning Authority (LPA) tree officer will have reasonable access to the site to report any problem areas directly to the developer's Landscape Architect/Arboriculturalist who will then visit the site and make recommendations to the contractor on how best to rectify the situation.

10 DEVELOPMENT NEAR TREES

- 10.1 The following activities are prohibited close to retained trees:
- No tree works to retained trees without prior agreement of the site Landscape Architect/Arboriculturist and LPA;
 - Do not move or damage tree protection fencing or ground protection. Any damage or requirement to set back fencing must be reported to/agreed with the site Landscape Architect/Arboriculturist and LPA;
 - No access within the RPA/crown spread (whichever is greater) of a retained tree (pedestrian or vehicular) unless agreed, fit for purpose ground protection is in place;
 - No raising of ground levels within an RPA without the agreement of the site Landscape Architect/Arboriculturist and LPA;
 - No excavation within an RPA without the agreement of the site Landscape Architect/Arboriculturist and LPA;
 - No storage of materials within an RPA;
 - No site compounds located within an RPA;

- No storage, mixing or discharge of toxic substances (including cements, oils, fuels and herbicides) within a distance where this could run off and reach the RPA of a retained tree (bundling must be used where this is a risk);
 - No fires within 10m of any part of a retained tree; and
 - The movement of site vehicles or machinery within 5m of above ground parts of retained trees must not be undertaken without a banks-man, taking particular account of tall loads or plant with jibs, booms or counterweights particularly in proximity to W12 where work will be in the vicinity of the woodland canopy.
- 10.2 Whenever the tree protection fence needs to be moved during the course of the development, a meeting will be called, to which the local authority's tree officer will be invited. This is in order to agree that the methods and new position of the tree protection fencing are adequate and meet with the LPA's approval.
- 10.3 Any other process which will require the movement of the protective fence line will require the presence of the developer's Landscape Architect/Arboriculturalist and the LPA's tree officer (when available) throughout the process. This work will therefore require to be carried out immediately following the removal of fencing (ideally within a single working day).
- 10.4 The following procedures will be adopted where construction work is required within the RPA of any retained tree:
- 10.5 Prior to any work commencing within RPA's the contractor and developer's Landscape Architect/Arboriculturalist will meet on site to discuss appropriate procedures; and
- 10.6 Excavations within protected zones will be backfilled with subsoil and good quality topsoil as soon as possible to minimise root desiccation.
- 11 SERVICES**
- 11.1 All service runs will be aligned to pass beneath the surface of the roads and pavements where possible.
- 11.2 Should the need arise to dig within the protective fence lines at any time, the developer's Landscape Architect / Arboriculturalist will be present, and hand digging will be used.
- 11.3 All work to services on site will be undertaken in line with the NJUG "Guidelines for Planning, Installation and Maintenance of Utility Services in Proximity to Trees".

12 REMOVAL OF THE PROTECTIVE FENCING

- 12.1 Following Practical Completion and when all drainage and service runs are in place and the main site machinery has been removed, the temporary protective fencing will be dismantled and removed from site. This must be done with great care and will need to be supervised to avoid heavy machinery being used.

13 LANDSCAPING WITHIN THE TREE CANOPIES

- 13.1 A number of trees will be subject to some form of replacement planting or seeding beneath the canopy after the main development phase has been completed. At this stage it is inevitable that the protective fencing will have to be removed.
- 13.2 In view of this, the planting will need to be carried out in such a way as to avoid level changes, deep digging and rotovating. Such details will be specified within the Detailed Landscape Proposals drawing 50104-DR-LAN-105 and work will be supervised where appropriate by the Landscape Architect/Arboriculturalist.

14 COMPLETION MEETING

- 14.1 Upon completion of all the works specified above and procedures also specified, the Landscape Architect/Arboriculturalist will invite the local authority's tree officer to meet on site to discuss the process and to agree on any remedial works required.

15 USEFUL NAMES AND TELEPHONE NUMBERS

- 15.1 The Developer – Rula Developments Ltd
- Contact: TBC
 - T: TBC
- 15.2 The Developer's Landscape Architect and Arboriculturalist – Surface Property
- Contact: Mark Topping
 - T: 01904 715 470
- 15.3 The Developer's Architect – AJA Architects
- Contact: TBC
 - T: TBC
- 15.4 Barnsley Metropolitan Borough Council
- Contact: TBC
 - T: TBC