



## **ARBORICULTURAL ASSESSMENT**

**51 Longwood Avenue, Cowplain**

*-prepared on behalf of Mr Ian Smith –*

*- October 2013 -*

Bernie Harverson M.Arb.

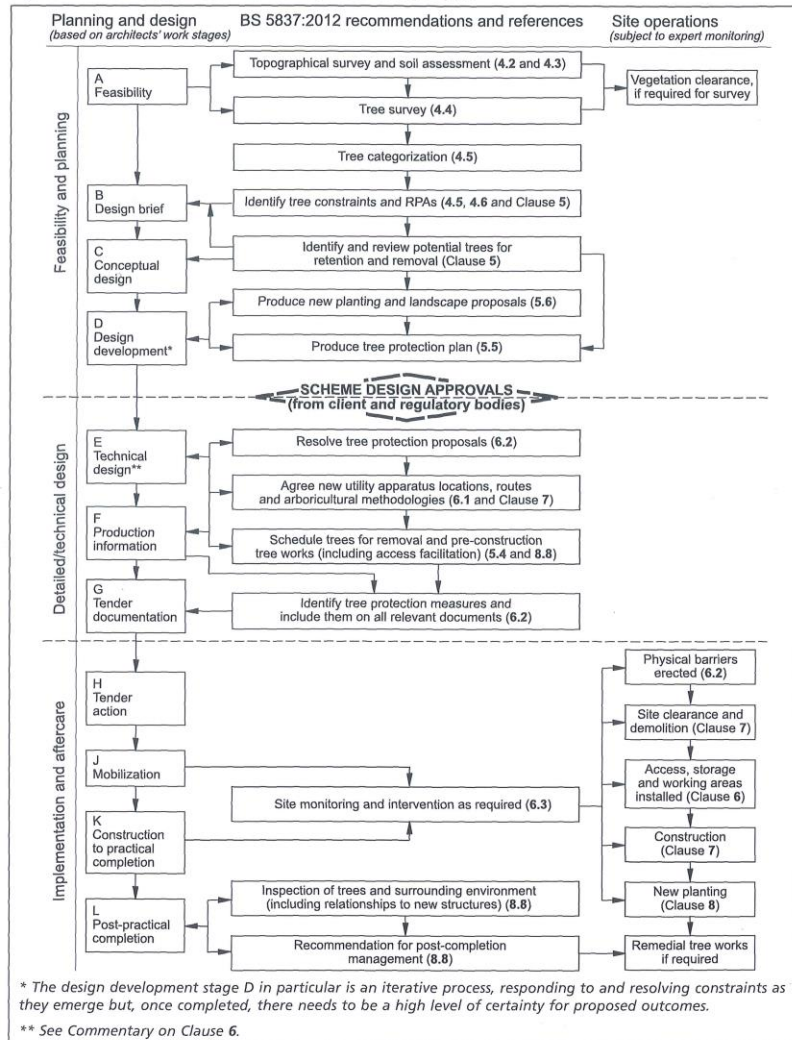
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# Tree Survey Schedule

+ T/S Notes & BS5837 Flow Diagram

Figure 1 The design and construction process and tree care



## TREE SURVEY NOTES

These Tree Survey Notes have been prepared in accordance with the recommendations of **British Standard 5837:2012** and they define the criteria for pre –development tree surveys.

- Each tree/group/hedge/shelterbelt/woodland has been allocated a unique number (**No.**), where specifically requested and appropriate fees are agreed small durable numbered metal tags can be applied to each tree/group surveyed.
- The tree species (**Species**) is provided in both English and Latin name formats.
- Height assessments (**Ht**) are estimated in metres. This will be adequate for the majority of cases, but where accurate heights become a critical issue it may be necessary to return to site, as a separately commissioned exercise, to collect accurate measurements with the aid of optical instruments.
- Trunk/stem diameters (**Diam**) are measured in millimetres at 1.5m above ground level – where the tree is inaccessible the diameter is estimated as indicated by suffix #
- Radial crown spread assessments (**Brch Sprd**) are estimated in metres from the centre of the trunk/group to each of the four primary points of the compass (**N**-north; **E**-east; **S**-south and **W**-west) in order to achieve a representation of the crown shape which will be shown on the accompanying tree survey plan. These provide a general guide as to the main bulk outline of a tree/groups crown but are not tape measured dimensions. These would only be undertaken as part of a separately commissioned exercise, where precise dimensions are critical to the project at hand.
- Both the canopy ground clearance (**GC**) and the height & compass direction of the lowest major branch (**LMB**) are estimated and shown in metres
- An assessment of a tree/groups 'life stage' (**LS**) is made in terms of its site specific maturity as part of the surrounding landscape, taking into account its overall shape and form in that setting, and is recorded thus :-  
**Y** - Young tree/group; **SM** - Semi-Mature tree/group; **EM** - Early-Mature tree/group;  
**M** – Mature tree/group; **OM** - Over – mature tree/group
- Data on the structural condition (**Condition Comments**) of the tree/group is provided to give its visual appearance and any significant health and safety issues.
- Details of any recommended tree works required at the time of survey is given under the heading – **Preliminary Management Recommendations**.
- An estimate of a tree/groups remaining contribution in years (**RC**) is made and is recorded thus :-  
**0-5; 5-10; 10-20; 20-30; 30-40** or **>40** years.

- The category grading (**Cat**) for each tree/group is assessed according to the criteria provided within **BS5837:2012**. The assessment is made of the tree/group in its current condition and within the environment encountered bearing in mind its suitability for retention as part of any future proposed development; although the exact layout detail of any specific scheme will not be known at the time of surveying. The trees have been classified into one of four categories and colour coded as BS5837 recommends :- **U** (dark red); **A** (light green); **B** (mid-blue) and **C** (grey). Please note that suffixed numerical sub-categories are also applied for guidance only and do not carry any cumulative or increased value for the tree/group. This colour coding scheme will be applied to all drawings provided.

Table 1 – Cascade chart for tree quality assessment

| Category and definition                                                                                                                                                    | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                   |                                                                                                                                        | Colour on plan     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Trees unsuitable for retention</b>                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                   |                                                                                                                                        |                    |
| <b>Category U</b><br>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years. | <ul style="list-style-type: none"> <li>Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees ( i.e. where, for whatever reason the loss of companion shelter cannot be mitigated by pruning)</li> <li>Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline</li> <li>Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality</li> </ul> <p>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve.</p> |                                                                                                                                                                                                                                                                   |                                                                                                                                        | <b>Dark Red</b>    |
| <b>Trees to be considered for retention</b>                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                   |                                                                                                                                        |                    |
|                                                                                                                                                                            | Criteria – Subcategories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                   |                                                                                                                                        |                    |
|                                                                                                                                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2                                                                                                                                                                                                                                                                 | 3                                                                                                                                      |                    |
| <b>Category A</b><br><b>Trees of high quality</b><br>with an estimated remaining life expectancy of at least 40 years                                                      | Trees that are particularly good examples of their species, especially if rare or unusual, or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Trees, groups or woodlands of particular visual importance as arboricultural and /or landscape features                                                                                                                                                           | Trees, groups or woodlands of significant conservation, historical, commemorative or other value ( e.g. veteran trees or wood-pasture) | <b>Light Green</b> |
| <b>Category B</b><br><b>Trees of moderate quality</b><br>with an estimated remaining life expectancy of at least 20 years                                                  | Trees that might be included in the category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation                                                                                                                                                                                                                                                                                                                                                                                           | Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality | Trees with material conservation or other cultural value                                                                               | <b>Mid Blue</b>    |
| <b>Category C</b><br><b>Trees of low quality</b><br>with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm      | Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value, and/or trees offering low or only temporary/transient landscape benefits                                                              | Trees with no material conservation or other cultural value                                                                            | <b>Grey</b>        |



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## TREE SURVEY SCHEDULE

**Client :** Mr Ian Smith

**Site Location :** 51 Longwood Avenue, Cowplain

**Surveyor :** Bernie Harverson *M.Arb.*

**Date Surveyed :** 8<sup>th</sup> October 2013

| Tree No. | Species                                                   | Ht<br>m | Diam<br>mm | Brch<br>Sprd<br>m      | GC<br>m | LMB<br>m    | LS | Comments                                                                                                                                                                                                       | Preliminary<br>Management<br>Recommendations   | Rem<br>Con<br>yrs | Cat |
|----------|-----------------------------------------------------------|---------|------------|------------------------|---------|-------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------|-----|
| 1        | Silver Birch<br><i>Betula pendula</i>                     | 13      | 340        | N4.5<br>E3<br>S5<br>W5 | 1.5     | 2n          | EM | Has been pruned hard back and high crown lifted on east side where it overhangs the boundary line and the neighbours pond-dead ivy clinging to trunk                                                           | No work considered essential at time of survey | >40               | B1  |
| 2        | Pedunculate Oak<br><i>Quercus robur</i>                   | 18      | 640        | N8<br>E5<br>S6<br>W8   | 1.5     | 3n          | M  | Suppressed to the south by other trees-small and large diameter deadwood throughout-stubs-previously reduced and reshaped-low branching habit                                                                  | Remove major deadwood                          | >40               | A1  |
| 3        | Weeping Silver Pear<br><i>Pyrus salicifolia</i> 'Pendula' | 3.5     | 240        | N4<br>E4<br>S2<br>W3   | 1       | 2.5<br>nesw | EM | Suckers-small diameter deadwood throughout-crown lifted 1m above ground level-previously reduced and reshaped-low branching habit-one stem has been removed at some point(1m above ground level on north side) | No work considered essential at time of survey | 30-40             | B1  |



# Tree Survey Plan



# Root Protection Area Schedule



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## ROOT PROTECTION AREA SCHEDULE

**Client :** Mr Ian Smith

**Site Location :** 51 Longwood Avenue, Cowplain

| Tree No. | Tree Species                                              | Cat | Diam<br>mm | BS5837:2012 Table1<br>Radial Protection Zone<br>m | BS5837:2012 Table D1<br>Polygon Area<br>m <sup>2</sup> | Is An Offset<br>Required To Cater For Existing Rooting Pattern Restrictions |
|----------|-----------------------------------------------------------|-----|------------|---------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------|
| 1        | Silver Birch<br><i>Betula pendula</i>                     | B1  | 340        | 4.1                                               | 52                                                     | NO – free rooting to all directions                                         |
| 2        | Pedunculate Oak<br><i>Quercus robur</i>                   | A1  | 640        | 7.7                                               | 185                                                    | NO – free rooting to all directions                                         |
| 3        | Weeping Silver Pear<br><i>Pyrus salicifolia</i> 'Pendula' | B1  | 240        | 2.9                                               | 26                                                     | NO – free rooting to all directions                                         |



# Root Protection Area Plan



# Qualifications & Experience



### **QUALIFICATIONS AND EXPERIENCE**

- My name is **Bernie Harverson** and I am a self employed independent arboricultural consultant in private practice. I take instructions primarily in the South of England but also on occasions work nationwide and abroad and have offices at : –  
3 Foxcombe Cottages, South Harting, West Sussex GU31 5PL and also at Cedar Court, 5 College Street, Petersfield
- I hold the following arboricultural qualification - **Master of Arboriculture** (Royal Forestry Society – 1976)
- I have **forty four** years of practical and managerial experience in the arboricultural industry including periods in both the public and private sectors.
- My Local Government sector experience comprises one year as a tree surgeon with Brighton Parks and nine years spent in Arboricultural Officer posts with both Westminster City Council and Portsmouth City Council
- My past practical experience in the private sector includes two years at Tilhill Forest Nursery and over ten years for various companies as a Climbing Arborist/Tree Surgeon.
- Managerial work in the private sector includes two years as manager of Beechings Tree Surgery Company and twelve years with CBA Trees as an Arboricultural Consultant.
- As an independent self employed Arboricultural Consultant I now provide a comprehensive range of services including :-  
tree surveys, appraisals, assessments and inspections with particular reference to planning and development and tree safety audits with a service offered as a climber to undertake full climbing inspections to better understand the condition of a given tree before prescribing a management strategy.
- I also undertake litigation work appearing as an Expert Witness in Court Actions and at Planning Appeals, Hearings and Public Local Inquiries.

**Bernie Harverson M.Arb.**

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