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3 Tree Survey Details

4 Tree Constraints Plan

5 Arboicultural Impact Assessment

6 Tree Management and Replanting Proposals

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8 Permissions and Constraints

9 Conclusions

Appendices

Appendix 1 Site Survey Schedule

Appendix 2 Notes on Column Headings in Appendix I

Appendix 3 Tree Protection Plan

Appendix 4 Arboicultural Method Statement

Appendix 5 Tree Protection Works

Appendix 6 Timetable for Implementation of Tree Protection Works
The site, Schoolhouse Primary School is situated on Cheveway Avenue, with the school playground fields stretching to the west. The site is also a beach front property that runs along the northern boundary of

2.1. The site is Schoolhouse Primary School. The school is situated on Cheveway Avenue, with the

2.2. There is another silver birch tree present behind a fence, but still within the school

2.3. Also included within the report is another silver birch which is closer to the entrance to the

2.4. Appendix 3. There is also a beach front area that runs along the northern boundary of

3.1. The corner of the site.

3.2. The area and plan.

3.3. The corner of the site.

3.4. The corner of the site.

4.1. Terms of Reference.

According to Section 207 of Environment Agency, The Environmental Impact Assessment (EIA) for Schoolhouse Primary School, the impact of the proposed construction on surrounding

4.2. The assessment address the likely impact of the proposed development on surrounding

4.3. The aim of this assessment is to survey trees that may be affected by the construction of a

4.4. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.5. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.6. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.7. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.8. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.9. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.10. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.11. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.12. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.13. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.14. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.15. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.16. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.17. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.18. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

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4.31. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

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4.34. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

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4.94. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

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4.96. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.97. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.98. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

4.99. Appendix 4. There are several constraints plan (TCP) and the Protection Plan (PPP),

5. The assessment is to survey trees that may be affected by the construction of a New pavilion at Schoolhouse Primary School.
the retention category colour. The APA will be used to help inform the closest positions.

The Foot Protection Areas (FPAs) for the trees are shown as a coloured circle to match the retention category number.

Below Ground Constraints

Areas as follows:

4.3

The plan deals with constraints that the trees may place on the development in two categories: trees and a reference number (as listed in Appendix I). Heights (H) are marked in metres for each tree, together with the predicted ultimate heights (Hmax).

Appendix 3 shows the position of trees marked by a coloured dot marking the retention assessment of the constraints imposed by existing trees on the proposed design. The plan has been prepared and forms Appendix 3. The plan has been prepared as a basis for the proposed development proposals and the classification of the quality and amenity value of the development proposals, and the classification of the quality and amenity value of any development proposals.

Appendix 2 gives a full explanation of the survey headings.

Appendix 1, the survey schedule gives the survey findings in tabular form. The schedule contains all the information specified in section 4.2.5 of the English Standard.

4.0 Assessment of the constraints

4.1 To facilitate the proper assessment of the constraints a Free Survey Details plan (CP) has been prepared and forms Appendix 3. The plan has been prepared as a basis for the proposed development proposals and the classification of the quality and amenity value of the development proposals, and the classification of the quality and amenity value of any development proposals.

4.2

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25th November 2013
G. Robide, BSc Hons for Tech Cert Arbor A.

There will be minimal impact on the trees present on site.

Provided that the protective measures are carried out as specified within this report

of construction works.

Fell the existing pruning to T1 and T2 will be carried out prior to the commencement

of construction works on the site. The proposal is for the pruning to be carried out to minimise the impact of the

development according to BS5837:2012.

All trees included within this report will be retained and protected throughout the

9.2 Conclusions

such as bats and reptiles are considered and protected.

and invited to comment on the proposals.

To assist the planning process the LA should be provided with a copy of this report

Authority must be given 6 weeks notice of any works on the trees.

It is must be ascertained whether there are any Tree Preservation Orders on any trees

8.3 Permits and Consents

If the proposed layout of the development changes it will be necessary to revise this

work will commence until the protectiveblanket is in place.

The AMS contains a timetable for implementation of the trees protection works. No

for implementation of the Protection Works from Appendices 4,5 and 6 respectively.

A Tree Protection Plan (TPP), Abiotic/Abiotic Method Statement (AMS) and Timetable

7 Further Abiotic/Abiotic Impacts into the Design Process, Construction and Management

from the date of this report after which the trees will require re-inspection.

Any comments on the trees relating to health and safety remain valid for 12 months

Including Tree Survey Data, Site plan located on page E. Robide, BSc Hons for Tech Cert Arbor A.
<table>
<thead>
<tr>
<th>Tree No.</th>
<th>Species</th>
<th>Ht  (m)</th>
<th>Stem dia (mm)</th>
<th>No of Stems</th>
<th>Branch Spread</th>
<th>Height and Direction of First Branch (m)</th>
<th>Mean Canopy Ht</th>
<th>Life Stage</th>
<th>Physiological Condition</th>
<th>Structural Condition</th>
<th>Preliminary Tree work</th>
<th>Estimated remaining contribution (Yrs)</th>
<th>Cat grading</th>
<th>Radius of RPA (m)</th>
<th>RPA (sq m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>Silver Birch</td>
<td>10.0</td>
<td>400</td>
<td>1</td>
<td>4.0</td>
<td>4.0</td>
<td>2.0 W</td>
<td>2.0</td>
<td>EM</td>
<td>Good</td>
<td>No work required</td>
<td>20+</td>
<td>C1</td>
<td>4.8</td>
<td>72.4</td>
</tr>
<tr>
<td>T2</td>
<td>Silver Birch</td>
<td>14.0</td>
<td>410</td>
<td>1</td>
<td>4.5</td>
<td>4.5</td>
<td>4.0 N</td>
<td>2.0</td>
<td>M</td>
<td>Good</td>
<td>No work required</td>
<td>20+</td>
<td>B1</td>
<td>4.9</td>
<td>76.1</td>
</tr>
<tr>
<td>G1</td>
<td>Downy Birch x 3</td>
<td>8.8</td>
<td>220</td>
<td>1</td>
<td>4.0</td>
<td>3.9</td>
<td>3.1</td>
<td>1.8</td>
<td>EM</td>
<td>Good</td>
<td>No work required</td>
<td>20+</td>
<td>B1</td>
<td>2.6</td>
<td>21.9</td>
</tr>
</tbody>
</table>

Surveyed by A.T. Coombes Associates
<table>
<thead>
<tr>
<th>No.</th>
<th>Column Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tree No.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Species</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>HT (m)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Stem dia. (mm)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Total number of stems on the tree.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Branch spread (m)</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>First significant branch and direction of growth (Relative to the TRF).</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Canopy ht.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Life Stage</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Condition</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Preliminary Management Recommendations</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Marine = M, Mature = OM, Over mature and V = Veteran.</td>
<td></td>
</tr>
</tbody>
</table>

**Structural and physical condition of the tree.**

The British Standard recommends that a note is made of the condition, Life Stage, Mean height of the canopy above ground level, Branch spread (m), First significant branch and direction of growth (relative to the TRF), Total number of stems on the tree, Total of the stem diameter measured in millimetres at 1.5 metres above ground, from ground level. The tree height is measured to the highest point of the tree measured in metres. Each tree has been identified and the common name given in each case. The numbers to correspond with those shown on the TC.
1. Trees that might be included in the High Category but are 'suggested' is according to a significant contribution (a minimum of 20 years of moderate quality and amenity value; those in such a Woodward (suggested) historical, commercial etc. of other value (e.g. veteran tree or tree of particular visual importance.

2. Those groups of woodlands of significant conservation interest in or out of the site, or those of particular visual screening or softening effect to the locality in relation to semi-natural or woodland features which provide a definite

3. Those that are particularly good examples of rare species of flora or

<table>
<thead>
<tr>
<th>Category Grade</th>
<th>Trees up to 40 years (suggested)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U</td>
<td>Those in such a condition that any existing value would be lost within 20 years and which should in the current context be removed for reasons of sound agricultural management.</td>
</tr>
<tr>
<td>A</td>
<td>Those of high amenity quality and value in such a condition as to be able to make a substantial contribution (a minimum of 20 years)</td>
</tr>
<tr>
<td>V</td>
<td>Indicating trees that will become at risk due to the loss of other (trees that have serious, irreparable structural defects, such as symptoms of decay or those which fall without showing external indications)</td>
</tr>
</tbody>
</table>

### Estimated Remaining Contribution

<table>
<thead>
<tr>
<th>Category Grade</th>
<th>Trees remaining contribution of each tree in years basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>U</td>
<td>Estimated contribution = 10 years</td>
</tr>
<tr>
<td>A</td>
<td>Estimated contribution = 0 years</td>
</tr>
<tr>
<td>V</td>
<td>Estimated contribution = 0 years</td>
</tr>
</tbody>
</table>

It should be noted that trees are dynamic structures subject to which further inspection is recommended.

Recommendations are made in respect of Health and Safety remain in Appendix 1.
The methods for anything at the stem diameter for multiple

\[
\text{RPA (m)} = \frac{\text{1000}}{3.142} \left( \frac{\text{stem diameter mm @ 1.5m X 12}}{2} \right)
\]

**Single Stemmed Trees**

Following formula:

<table>
<thead>
<tr>
<th>Area of RPA is given in square meters calculated by the</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPA (sq m)</td>
</tr>
<tr>
<td>16</td>
</tr>
</tbody>
</table>

The stem diameter of multi-stemmed trees is given in section 4.

The stem diameter is given in column 4 by 12. The methods for calculating the

The distance that would form the radius of a circular protection zone is given in square meters calculated by multiplying the stem

**Note:** Category C trees are the least suitable for retention, where

<table>
<thead>
<tr>
<th>Benefits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trees with very limited conservation or other cultural</td>
</tr>
<tr>
<td>Temporary screening benefits</td>
</tr>
<tr>
<td>Significantly higher观赏 value and or offering low or</td>
</tr>
<tr>
<td>Trees present in groups or woodlands but not with a</td>
</tr>
<tr>
<td>Tree not qualifying in higher categories</td>
</tr>
<tr>
<td>Diameter of 10 years is suggested. OR trees under 150 mm stem</td>
</tr>
<tr>
<td>condition to remain until new planting is established (minimum</td>
</tr>
<tr>
<td>C = Those of low quality and amenity value currently in adequate</td>
</tr>
<tr>
<td>Benefits:</td>
</tr>
<tr>
<td>---------------------------------</td>
</tr>
<tr>
<td>Trees with clearly identifiable conservation or other cultural</td>
</tr>
<tr>
<td>but do not form essential components</td>
</tr>
<tr>
<td>Trees and woodland that forming discrete landscape features</td>
</tr>
<tr>
<td>downgraded because of impaired condition (e.g. Removable</td>
</tr>
</tbody>
</table>

**Appendix 2 - Notes on Column Headings in Appendix 1**
Zones (C EZ) as shown on Appendix 4 the Tree Protection Plan (TPP).

Remainder trees will be protected by forming construction exclusion

3.1

TREE PROTECTION BARRIERS

3.0

... will be required.

The trees are fully protected and steps when specific arboricultural input provided. Bridge the order that the works need to be implemented. To ensure the exact commencement date is not known however the timetabled attached timetable Appendix 6.

Free protection works will be completed as detailed below according to the

2.1

TIMING OF WORKS

2.0

Works take place.

Protective measures must be in place prior to any ground or construction

4.1

Local Planning Authority.

Protective measures will be produced and circulated including the Tree Officer of the

This point a list of contact details for all relevant
discussed and agreed.

A meeting between the site manager/main contractor and a consulting

3.3

Arboricultural Site Monitoring

- Use of pre-emptive root pruning
- Provision of temporary ground protection
- Provision of temporary protective barriers

Follows:

1.2

The main features in the protection of the remaining trees on site are as

Protection Works Appendix 6.

Conjunction with the Tree Protection Plan Appendix 4 and Timetable for

1.1

The document provides a methodology for protection of trees during the

1.0

Scope of the Works

APPENDIX 5

CHEVEY AVEYNUE, SALHOUSE
FOR A PROPOSED DEVELOPMENT AT SALHOUSE PRIMARY SCHOOL
ARBOUCULTURAL METHOD STANDARMT

I
FIG 1 is an extract from SS5837:2012 showing the method of supporting scaffolding struts on block key.

Panel supports should be supported on the inner side by stabiliser struts which

There should normally be attached to a base plate and secured with ground pins.

Where the fence will be erected on hard surfacing or it is otherwise

unfeasible to use ground pins the struts should be mounted on a block

throughout the fence.

Distance between couplers should be at least 1m and be uniform

installed so they can be removed from the inside of the fence. The

couplers should be joined together using a minimum of two anti-temper couplers

proved (feras) supported on number of concrete reel. The fence panels

the TLP to form the CFT. The barriers will consist of 2m tall welded mesh

Temporary barriers will be erected as shown by the thick green lines on

surfaces. Stabiliser struts should be fitted at each panel junction.

FIG 1
SITE HUTS AND TEMPORARY BUILDINGS

Cut back to the edge of the trench using a sharp hand saw or secateurs.
An air spade will be used to excavate the trench. Any roots exposed will be
by a suitably trained Arborculturist.

Pre-emptive roof pruning will take place on a line just outside the edge of
the foundation of the new dwelling to avoid injury damage to the root
system of the neighbouring trees whilst excavating. This will be carried out

PRE-EMPTIVE ROOT PRUNING

Put in place before any access is allowed.
Compaction of the soil can occur from a single pass of a heavy vehicle.

To,
consultant to support the loading that the ground will be subjected
According to the occupational
Resistant level (150mm woodchip) laid on a geotextile membrane.
Resistant level (150mm woodchip) laid on top of a composite ground
Protection boards which are another on top of a composite
Light plastic pipe to a cross weight of 12, proprietary ground

a geotextile membrane.

Pedestrian traffic only. A single thickness of scot fold boards on top
Pedestrian traffic on the type of traffic that will use.

4.1
Temporary ground protection will be required as shown on the TTP with

TEMPORARY GROUND PROTECTION

Barriers will be removed only when all construction work is completed.

4.0

That access is denied to the CZE throughout the process.
Barriers will be maintained throughout the duration of the works, ensuring

3.7

3.6

3.5

4.0
The need for any regular or determinantal pruning to the trees, Any overgrown services including CCTV must also be positioned to avoid the proposed area.

It will be necessary to prepare detailed plans for these services that should

The proposed area.

for the space needed for access for the installations, and the excavations across be produced in conjunction with an arboriculturist, and include allowance to the NUG guidelines for the Planning. Installation treets can be found in the NUG guidelines for the Planning. Installation treets can be found in the NUG guidelines for the Planning. Installation treets can be found in the NUG guidelines for the Planning. Installation treets can be found in the NUG guidelines for the Planning. Installation treets can be found in the NUG guidelines for the Planning. installation must be employed to place the services within the boundaries of the trees. If this is not possible, special

No details of new service runs have been provided at this stage. They

SERVICE TRUNKS

are completely extinguished.

are completely extinguished.

are completely extinguished.

are completely extinguished.

are completely extinguished.

are completely extinguished.

are completely extinguished.

are completely extinguished.

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4.1 Coomes Associates 25th November 2013

Check the condition of the trees and advise if any remedial work is necessary.

On completion of the works the trees will be inspected by the arborist to

3. To supervise pre-emergent root pruning.

2. To confirm that the protective fencing and ground protection is in

deal with any areas the main contractor may have

defined prior to commencement to review the contents of the ARWS and

There are three key stages where on-site arboricultural advice will be needed

3.3 Protection measures to be checked and verified.

To provide an audit trail enabling the proper implementation of the tree

findings will be forwarded to both the Tree Officer and the main contractor

by the level of activity and degree to which the tree protection measures are

measures are being carried out. The frequency of the visits will be dictated

The arborist will complete regular site visits to check that the tree protection

consultation with the local Authority's Tree Officer.

Construction phase by a nominated arborist who will be responsible for

Arboricultural/site monitoring will be carried out throughout the

9.4
### APPENDIX 6 TIMETABLE FOR TREE PROTECTION WORKS AT SALHOUSE PRIMARY SCHOOL, CHEYNEY AVENUE, SALHOUSE

<table>
<thead>
<tr>
<th>Item</th>
<th>Operation *</th>
<th>Before Commencing Construction Works</th>
<th>During Construction Works</th>
<th>On Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Carry out a pre-commencement site meeting to discuss any tree protection issues.</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Carry out tree work as detailed in the AIA</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Erect temporary protective fencing (Thick green line) on edge of the CEZ as specified in the AMS and TPP and put temporary ground protection in place (Orange Hatching)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Erect warning signs on fencing around each CEZ stating “Construction Exclusion Zone - Keep Out”.</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Maintain Protective fences and signs in good condition.</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Carry out pre-emptive root pruning</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Arboricultural supervision and advice including site visits during the course of the works to check the CEZ and liaison with the Local Authority.</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>8</td>
<td>Remove protective fencing</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>9</td>
<td>Check condition of the protected trees and consider if remedial works are necessary.</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>10</td>
<td>Plant replacement trees.</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

* All work to comply with the attached Arboricultural Method Statement and BS5837: 2012 Trees in relation to design, demolition and construction - Recommendations*